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ERRATA.

1,373,739, page 69, in heading, strike out assignment and insert *by mesne assignments to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts.*

1,374,489, page 246, in heading, assignment, name of assignee, for "Morris I. Kopple" read *Morris D. Kopple.*

1,374,578, page 274, in heading, line 4, for "Serial No. 297,130" read *Serial No. 287,130.*

1,374,950, page 407, in heading, assignment, assignee, for "Henry W. Newhall, Jr., executor of Henry W. Newhall, deceased," read *Henry B. Newhall, Jr., executor of Henry B. Newhall deceased.*

Vol. 285

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IN BOOKS

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APRIL, 1921.

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DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

APRIL, 1921.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*).]

ABANDONED EXPERIMENTS.

ACTUAL REDUCTION TO PRACTICE—TEST.

Where an engine-starter was constructed by Bijur with a view to securing the business of the Packard Company and in 1912 was put on a car furnished by this company and tested, the result being that it broke frequently during the test, although witnesses claimed that it was successful, explaining that it was broken because purposely subjected to a destructive test, and immediately following the test the Packard Company adopted a different kind of starter, and the Bijur Company, although engaged in the business, did not put such construction on the market, but prepared in 1913 to supply a different device, and Bijur filed ten applications relating to starters, but made no attempt to commercialize the device tested until he saw an exhibit of his rival, *Held* that the conclusion must be drawn that the inventor himself did not regard the test in 1912 as successful and that it was no more than an abandoned experiment.

[*Halbleib *v.* Bendix and Conrad. Same *v.* Bendix, Bijur, and Conrad. Conrad *v.* Bendix and Halbleib. Same *v.* Bendix, Bijur, and Halbleib. Bijur *v.* Bendix, Conrad, and Halbleib. Same *v.* Bendix, 191.

ABANDONMENT OF APPLICATIONS.

See Appeal to the Court of Appeals of the District of Columbia; Construction of Statutes, 2; Interference, 2; Revival of Abandoned Applications; Trade-Marks.

ACT OF MARCH 19, 1920.

See Trade-Marks.

ACT OF MARCH 3, 1921.

See Construction of Statutes, 2, 3, 4, 5, 6, 7, 8, 9.

AFFIDAVITS.

See Construction of Statutes, 8.

AMENDMENTS.

See Revival of Abandoned Applications, 2.

APPEAL TO THE COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Priority of Invention, 2.

CLAIM OF ABANDONMENT CAN BE ADJUDICATED IN INTERFERENCE PROCEEDING.

While the question of patentability will not be considered by the court of appeals in an interference appeal, the question of abandonment by one applicant is always available as affecting his right to priority.

[*Snelling *v.* Whitehead, Commissioner of Patents, 393.

ATTORNEY.

See Reissue Applications, 1.

AUTHORITY OF THE COMMISSIONER OF PATENTS

See Construction of Statutes, 4; Delay in Filing Applications for Reissue.

CANCELATION OF CLAIMS.

See Reissue Applications, 2.

CITIZENS OF FOREIGN COUNTRIES.

See Construction of Statutes, 2, 3, 5, 6, 7, 8.

CITIZENS OF THE UNITED STATES.

See Construction of Statutes, 2, 3, 5, 6, 7, 8.

CLAIMS.

See Appeal to the Court of Appeals of the District of Columbia; Delay in Filing Applications for Reissue; Interference, 3; Priority of Invention, 2; Reissue Applications; Revival of Abandoned Applications, 1.

COMMISSIONER OF PATENTS.

See Construction of Statutes, 1, 4; Interference, 2; Priority of Invention, 2.

CONSTRUCTION OF CLAIMS.

INTERFERENCE ISSUE—COUNTS GIVEN THEIR BROADEST CONSTRUCTION.

Giving the counts of the interference issue the broadest interpretation of which they are susceptible, the universal rule in interference cases, *Held*, that T.'s disclosure is sufficient to sustain the issue, and priority awarded to him.

[*Dewson and Brown *v.* Tomlinson, 189.

CONSTRUCTION OF STATUTES.

See Abandonment of Applications; Revival of Abandoned Applications.

1. CONDUCT OF INTERFERENCE PROCEEDING BY COMMISSIONER OF PATENTS CANNOT BE CONTROLLED.
Under Revised Statutes, section 4904, (Comp. St., sec. 9449,) providing for the declaration of an interference by the Commissioner of Patents, and the other statutes and rules having the force of statute, prescribing the procedure on interference, an injunction to restrain the Commissioner of Patents from further proceeding with an interference and to require the striking of certain orders made therein would control actions of an executive officer in matters committed by law to his discretion, and injunction will not issue for that purpose.
[* Snelling *v.* Whitehead, Commissioner of Patents, 393.

2. NOLAN ACT — FOREIGN APPLICATION FORFEITED AND ABANDONED—RIGHT TO PAY FINAL FEE OR RENEW.
A foreign applicant whose application became forfeited on September 7, 1919, and abandoned on March 7, 1921, may now, under section 2 of the act of March 3, 1921, either pay the final fee or renew the application, provided the laws of the country of which he is a citizen or subject grant substantially reciprocal privileges to citizens of the United States, and where a renewal fee was paid it may be applied as a part of the final fee should applicant so elect. [*Ex parte* Karnet, 571.

3. SAME—SAME—SAME.
A foreign applicant whose application became forfeited on December 5, 1914, was renewed and again forfeited within two years from the original notice of allowance, may now, under section 2 of the act of March 3, 1921, either pay the final fee or file a second renewal, provided the laws of the country of which he is a citizen or subject grant substantially reciprocal privileges to citizens of the United States.
[*Ex parte* Mosbacher, 571.

4. SAME—REINSTATEMENT OF APPLICATION.
The act of March 3, 1921, does not automatically reinstate an application, nor has the Commissioner any authority to reinstate it upon a mere request of the applicant for reinstatement; but the action which is appropriate to the condition of the case must actually be made in order to change its status. It is the time when applicant makes the necessary action or pays the required fee that determines his rights under the law.
[*Ex parte* Rechnitzner, 572.

5. SAME—RECIPROCAL PRIVILEGES—PROOF OF THE APPLICABLE FOREIGN LAW.
Relief of foreign applicants under section 2 of the act of March 3, 1921, being conditional upon the granting to citizens of the United States by the country of which the foreign applicant is a citizen or subject of substantially reciprocal privileges, it is necessary that applicants seeking benefits under the act shall prove the applicable foreign law in the absence of knowledge by the Office of such law received from other sources. [Id.

6. SAME—EXTENSION OF RIGHTS OF PRIORITY.
The rights of priority provided by section 1 of the act of March 3, 1921, will be extended up to the extreme limits set therein in favor of citizens of the United States and citizens or subjects of foreign countries which extend rights of priority to the limits set in the Berne Convention or to the limits set by Great Britain in ratifying that Convention.
[*Ex parte* Hackett, Smith, and Southall, 795.

7. SAME—EXTENSIONS OF TIME FOR PAYING FEES—NOLAN ACT CONSTRUED.
Since under section 2 of the act of March 3, 1921, no extensions may confer privileges on the citizens or subjects of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States, fees past due must be paid or actions required to be done in the past must be performed at such time, on or before March 3, 1922, that the period between the due date and the date when such fee is actually paid or action is actually taken is not longer than the maximum period allowed by the laws of such foreign country to citizens of the United States for similar actions. [Id.

8. SAME—PROOF OF FOREIGN LAW—PROOF NOT NECESSARY IN EACH APPLICATION.
For purposes of administration of the Nolan Act, (act of March 3, 1921,) as it applies to foreign applicants, the privileges conferred on citizens of the United States by the laws of a foreign country may be proved by the affidavit of an expert in such law or by a statement from the competent authorities of that country. When the law is once proved, it will be sufficient for all applications filed by citizens or subjects of that country.
[Id.

9. SAME—PROOF OF BRITISH LAWS AND PRACTICE INSUFFICIENT.
Proof of the laws and practice of Great Britain alleged to meet the conditions of the Nolan Act as to reciprocity examined and found insufficient. [Id.

CONSTRUCTION OF TRADE-MARK STATUTES.

See Trade-Marks.

COPYING CLAIMS.

See Revival of Abandoned Applications, 1.

DECISIONS OF THE SUPREME COURT OF THE UNITED STATES.

See Revival of Abandoned Applications, 1.

DELAY IN FILING APPLICATION FOR REISSUE.

See Laches; Reissue Applications, 1.

DISCRETIONARY AUTHORITY OF COMMISSIONER.
Determination of the question whether the circumstances are such as to excuse delay in filing an application for reissue seeking to broaden claims is one resting largely within the discretion of the Commissioner of Patents. [* *In re* Holland, 393.

DILIGENCE.

See Priority of Invention, 1.

DISCLOSURE OF INVENTION.

See Construction of Claims; Interference, 3; Priority of Invention, 1.

DISCRETION OF THE COMMISSIONER OF PATENTS

See Construction of Statutes, 1; Delay in Filing Applications for Reissue.

DISSOLUTION OF INTERFERENCE.

See Priority of Invention, 2.

ESTOPPEL.

See Revival of Abandoned Applications, 1.

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EXPERIMENTS.

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FINAL FEES.

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FIRST AND ORIGINAL INVENTOR.

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FOREIGN LAWS.

See Construction of Statutes, 2, 3, 5, 6, 7, 8, 9.

FORMER DECISIONS CITED.

See Laches.

INADVERTENCE.

See Reissue Applications, 2.

INJUNCTION.

See Construction of Statutes, 1; Interference, 2.

INTERFERENCE.

See Appeal to the Court of Appeals of the District of Columbia; Construction of Claims; Construction of Statutes, 1; Priority of Invention.

1. INVENTION BY THIRD PARTY.
A party to an interference cannot defeat his opponent by showing that another party not a party to the proceeding was the real inventor, although the successful party might have to meet this question *ex parte* after the termination of the interference proceeding.
[* De Forest *v.* Miller, 189.

2. INJUNCTION WILL NOT ISSUE WHERE THERE IS ADEQUATE REMEDY BY APPEAL.
An injunction to control the Commissioner of Patents in interference proceedings will not issue where plaintiff's claim is based on alleged abandonment by another party to the interference, so that there is an adequate remedy at law by appeal in the interference proceeding.
[* Snelling *v.* Whitehead, Commissioner of Patents, 393.

3. RIGHT TO MAKE CLAIM.
An applicant whose application discloses a dust-guard for car-axle boxes consisting of a plate having a lower edge which is square, with the corners cut off in circular form, leaving a flange extending straight across the bottom between the parts where the corners are clipped off, *Held* not entitled to make a claim calling for a plate having a flange extending around a semicircular lower edge. [* Sharp *v.* Gamage, 573.

INTERNATIONAL CONVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY.

See Construction of Statutes, 6.

INTERVENING RIGHTS.

See Laches.

INVENTION BY THIRD PARTY.

See Interference, 1.

LACHES.

DELAY IN FILING APPLICATION—RULE NOT RELATED TO INTERVENING RIGHTS.
Applicability of the rule of laches in the filing of an application for reissue is not dependent upon whether there are intervening rights. (*Mahn* v. *Harwood*, 112 U. S., 354.) [*Ex parte* Holland, 391.

LIMIT OF TIME.

See Construction of Statutes, 6, 7; Revival of Abandoned Applications, 1.

MISTAKE.

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PATENTABILITY.

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PRIOR PRACTICE.

See Revival of Abandoned Applications, 1.

PRIORITY OF INVENTION.

See Abandoned Experiments; Appeal to the Court of Appeals of the District of Columbia; Construction of Claims; Construction of Statutes, 6.

1. DILIGENCE—EXPERIMENTING TO PERFECT ONE FEATURE OF THE INVENTION.
Where Bendix conceived and disclosed the invention in 1910, and the record of the interference proceedings is replete with evidence of his activities in experimenting from March to November, 1913, when he filed his application, with one of the features of the invention to which the parties financing his operations made objections, *Held* that he is entitled to an award of priority over one later to conceive who reduced the invention to practice in May, 1913.
[* Halbleib *v.* Bendix and Conrad. Same *v.* Bendix, Bijur, and Conrad. Conrad *v.* Bendix and Halbleib. Same *v.* Bendix, Bijur, and Halbleib. Bijur *v.* Bendix, Conrad, and Halbleib. Same *v.* Bendix, 191.

2. SENIOR PARTY AWARDED PRIORITY ON TWO COUNTS ON WHICH INTERFERENCE WAS DISSOLVED.
Where the Commissioner of Patents awarded priority of invention to Replogle as to two counts of the interference, but dissolved it as to other counts, holding two of said counts not patentable over the issue of another interference to which Replogle was a party and in which priority of invention was decided against him, *Held* that where both interferences were appealed and Replogle was successful in both cases he was entitled to an award of priority upon said two counts, as well as upon the others. [* Kirby *v.* Replogle, 393.

PROOF.

See Construction of Statutes, 5, 8, 9.

RECIPROCAL PRIVILEGES.

See Construction of Statutes, 2, 3, 5, 6, 7, 8, 9.

REDUCTION TO PRACTICE.

See Abandoned Experiment; Priority of Invention, 1.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks.

REINSTATEMENT OF APPLICATIONS.

See Construction of Statutes, 4.

REISSUE APPLICATIONS.

See Delay in Filing Application for Reissue.

1. DELAY OF MORE THAN THREE YEARS IN FILING APPLICATION—EXCUSE INSUFFICIENT.
Delay of more than three years in filing an application for reissue containing broadened claims may not be excused on the ground that applicant was ignorant of patent matters, particularly the meaning of claims; that an attorney conducted the proceedings to obtain the patent who unduly restricted the claims; that applicant lived in a country remote from any patent lawyer, and that the restricted scope of the claims was not discovered until parties who became interested therein directed attention to the defect, when steps to obtain a reissue were promptly taken.
[*Ex parte* Holland, 391.

2. INADVERTENCE, ACCIDENT, OR MISTAKE—EFFECT OF CANCELING CLAIMS FROM ORIGINAL APPLICATION.
The fact that claims of substantially the same scope as those sought in a reissue were canceled from the original application after rejection negatives the assertion of inadvertence, accident, or mistake in failing to secure them in the original patent. [Id.

REJECTION OF APPLICATIONS.

See Trade-Marks.

REJECTION OF CLAIMS.

See Reissue Applications, 2; Revival of Abandoned Applications, 1.

RENEWAL OF FORFEITED APPLICATIONS.

See Construction of Statutes, 2, 3, 4, 5.

REVIVAL OF ABANDONED APPLICATIONS.

See Appeal to the Court of Appeals of the District of Columbia; Construction of Statutes, 2; Trade-Marks.

1. "UNAVOIDABLE" DELAY—EFFECT OF RULING OF APPELLATE COURT REVERSING PRIOR PRACTICE.
Where the claims of an application copied from a patent are rejected on the ground of estoppel by reason of delay in copying them for more than one year after the date of the patent and the application, standing under such rejection, is allowed to become abandoned, applicant is not entitled to revive the same after a decision of the Supreme Court in another case holding that the basis of rejection was not warranted, the delay in taking action not being "unavoidable" under section 4894, Revised Statutes. [*Ex parte* Weber, Sr., 392.

2. APPLICATION ABANDONED WHILE APPLICANT WAS SERVING WITH THE FORCES OF THE UNITED STATES.
Under section 6 of the act of March 3, 1921, a citizen of the United States whose application became abandoned while he was serving with the forces of the United States during the war upon filing a responsive amendment is entitled to proceed with the prosecution of his case, irrespective of whether he was serving abroad or in this country. [*Ex parte* Giller, 571.

RIGHT TO MAKE CLAIMS.

See Interference, 2.

SECOND RENEWAL OF FORFEITED APPLICATIONS.

See Construction of Statutes, 3.

TEST.

See Abandoned Experiments.

TRADE-MARKS.

1. ABANDONED APPLICATION—ATTEMPT TO REVIVE AND CONVERT INTO APPLICATION UNDER NEW LAW—UNAVOIDABLE DELAY.
A petition accompanied by a filing fee of ten dollars to revive an application for the registration of a trade-mark filed under the Trade-Mark Act of 1905, which had become abandoned for failure to take in time an appeal from a final rejection, and to convert it into an application under the act of March 19, 1920, denied where no showing was made of unavoidable delay.
[*Ex parte* Pratt Food Co., 189.

2. SAME—TRANSFER OF FEE FILED WITH PETITION TO REVIVE TO NEW APPLICATION.
Where a petition accompanied by a filing fee of ten dollars to revive an abandoned application filed under the Trade-Mark Act of 1905 is denied on account of lack of showing of unavoidable delay and a new application under the act of March 19, 1920, is filed, the fee accompanying the petition to revive may be transferred to the new application. [Id.

UNITED STATES ARMY.

See Revival of Abandoned Applications, 2.

WITNESSES.

See Abandoned Experiments.

Patents Nos. 1,373,394 to 1,374,170.

THE
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Issue of April 5, 1921.

Patents	777	No. 1,373,394 to No.	1,374,170, inclusive.
Designs	29	No. 57,460 to No.	57,488, inclusive.
Trade-Marks	11	No. 141,054 to No.	141,064, inclusive.
Reissues	3	No. 15,076 to No.	15,078, inclusive.
Total	820		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., March 17, 1921.

Hatfield-Bernhard Co., Inc., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Sunset Paint Company, 627 South Main street, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered May 21, 1912, No. 86,590, to the Hatfield-Bernhard Co., Inc., 112 Second avenue south, Seattle, Wash., and a notice of such declaration sent by registered mail to said Hatfield-Bernhard Co., Inc., at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Hatfield-Bernhard Co., Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., March 17, 1921.

Marshall & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Belding Bros. & Co., 902 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered December 11, 1894, No. 25,626, to The Willimantic Linen Company, Willimantic, Conn., and trade-mark registered November 4, 1884, No. 11,614, to Marshall & Co., Leeds, England, and a notice of such declaration sent by registered mail to said Marshall & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Marshall & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

The notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

M. H. COULSTON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,201,270.

On January 18, 1921, a decision was rendered that Lee de Forest was not the first inventor of the subject-matter covered by claims 5 and 6 of his Patent No. 1,201,270, subject, "Oscillating-current generators," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,281,952.

On February 24, 1921, a decision was rendered that Ford W. Harris was not the first inventor of the subject-matter covered by claims 1 and 4 of his Patent No. 1,281,952, subject, "Process and apparatus for dehydrating emulsions," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,309,812.

On March 3, 1921, a decision was rendered that Walter Proulx was not the first inventor of the subject-matter covered by claims 3, 5, 6, and 8 of his Patent No. 1,309,812, subject, "Pulling-over machines," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER NO. 2,646.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., March 31, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 242, Winding and Reeling, (Division XXI,) abolish the following subclass, with its definition:

Reeling and unreeling—
Reels—
Fishing-rod type—
84.2. Signal.

The patents formerly contained in this subclass have been placed in class 43, Fishing, Trapping, and Vermin-Destroying, subclass 17, Fishing, Signal devices, and class 242, Winding and Reeling, subclasses 84.1, Reeling and unreeling, Reels, Fishing-rod type; 84.4, Reeling and unreeling, Reels, Fishing-rod type, Line-traverser, and 84.5, Reeling and unreeling, Reels, Fishing-rod type, Brake and drag.

M. H. COULSTON,
Commissioner.

4698

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business March 26, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders....	Nov. 13	Nov. 26	931
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Aug. 3	Sept. 27	1,327
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Aug. 6	636
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	May 11	Jan. 5	1,463
167	5. Book-Making; Books, Strips and Leaves; Harvesters: Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 9	Sept. 13	605
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 9	Dec. 28	701
312	7. Games and Toys; Optics; Photography; Velocipedes	Nov. 11	Dec. 1	1,123
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Jan. 18	Feb. 2	477
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Aug. 16	Feb. 5	626
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Sept. 26	Jan. 18	1,001
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Jan. 6	Jan. 20	438
222	12. Machine Elements	Aug. 9	Jan. 5	981
229	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 16	Dec. 13	1,430
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	July 6	Feb. 4	805
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 19	Aug. 18	1,157
111	16. Radiant Energy; Telegraphy; Telephony	July 1	Aug. 14	1,354
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Feeding or Delivering; Type Setting.	Sept. 20	Jan. 3	662
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	July 31	Oct. 18	1,360
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	July 12	Nov. 1	699
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 1	Dec. 8	904
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Sept. 7	Jan. 20	490
249	22. Aeronautics; Firearms; Ordnance—Ammunition and Explosive Devices	Nov. 6	Jan. 25	357
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	July 26	Jan. 8	844
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Aug. 25	Jan. 3	726
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 12	Feb. 11	236
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Aug. 17	Nov. 3	770
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Nov. 8	Jan. 4	822
225	28. Internal-Combustion Engines	Mar. 19	Dec. 15	1,063
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Aug. 4	Jan. 14	650
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Sept. 2	Feb. 9	883
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas; Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 10	Aug. 31	1,731
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	July 1	Dec. 10	1,076
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 1	Oct. 23	685
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Feb. 4	Feb. 19	197
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Feb. 19	Feb. 9	396
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Oct. 23	Oct. 11	1,472
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Sept. 19	Oct. 8	1,507
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Oct. 26	Oct. 20	865
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 3	June 5	1,507
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 14	Dec. 8	1,428
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Aug. 9	Dec. 14	813
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	July 23	Oct. 1	1,668
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	June 26	Aug. 2	1,162
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	July 31	Jan. 28	469
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	July 29	Oct. 4	980
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 22	Dec. 4	627
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	July 20	Oct. 11	1,060

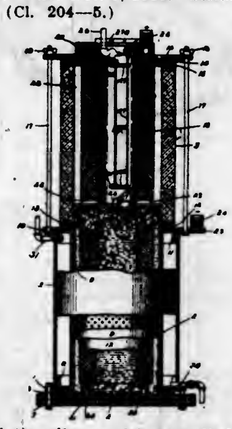
Oldest new case, Mar. 19; oldest amended, June 5.
Total number of applications awaiting action..... 43,164

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 5	Jan. 26	4,398
	Designs	Sept. 18	Nov. 24	1,923
	Labels and Prints	Jan. 3	Feb. 16	424

PATENTS

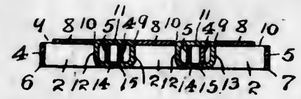
GRANTED APRIL 5, 1921.

1,373,394. ELECTROLYTIC CELL. EDWARD A. ALLEN and HERBERT I. ALLEN, Portland, Me., assignors to Electron Chemical Company, Portland, Me., a Corporation of Maine. Filed Dec. 9, 1919. Serial No. 343,491. 17 Claims. (Cl. 204—5.)



1. An electrolytic cell comprising a cylindrical cathode, a cylindrical diaphragm covering the inner active face of the cathode, and a cylindrical tubular anode occupying the space within the cathode and diaphragm.

1,373,395. CHAIN ADAPTED AS LINK-BRACELET AND THE LIKE. THOMAS ALLSOPP, Newark, N. J., assignor to Allsopp & Allsopp, Inc., a Corporation of New Jersey. Filed Aug. 2, 1920. Serial No. 400,631. 2 Claims. (Cl. 59—80.)



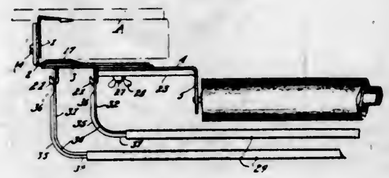
2. A flexible chain adapted for use as a link-bracelet, comprising a plurality of main link-members and intermediate connecting link-members, each main member consisting of a pair of longitudinally extending side-members, a pair of laterally extending end-members, and a top-plate extending across said side-members and of such width so as to provide with said end-members a pair of receiving openings, and each connecting link-member consisting of a top-plate and a pair of downwardly extending side-edge members, each side-member projecting downwardly into and through a receiving opening above-mentioned and having a bent portion extending above a side-member of a main link-member, all arranged for articulated or pivotal connection of the various connecting link-members with the various main link-members.

1,373,396. DRYING APPARATUS. BERNARD R. ANDREWS, Braintree, Mass. Filed July 8, 1920. Serial No. 394,715. 14 Claims. (Cl. 34—48.)



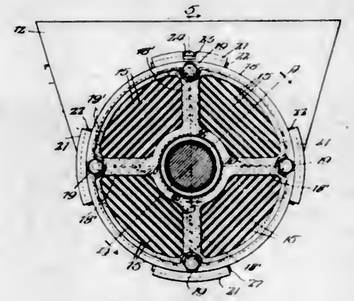
1. In apparatus for drying sheet material, the combination with means for holding sheet material, of means to heat one side of said sheet material, and means to take heated air from said side of the sheet material and deliver it onto the other side thereof.

1,373,397. WINDOW-BRACKET. JOSEPH P. ARNTZ, Canal Fulton, Ohio. Filed Mar. 22, 1920. Serial No. 367,763. 2 Claims. (Cl. 156—24.)



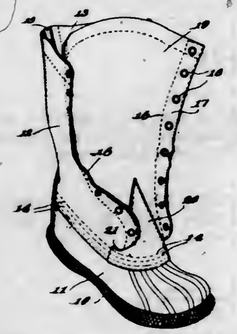
2. A bracket for the finishing board of a window frame or the like comprising an attaching plate having an inturned angular portion at one vertical edge, an angular member adjustably connected thereto, said attaching plate and angular member being arranged to embrace opposite sides of the same edge portion of the finishing board, a square projection formed upon the attaching plate, a curtain rod supporting plate having a square projection formed therein, and adapted to receive the square projection upon the attaching plate, said curtain rod supporting plate being provided with attaching prongs to connect a curtain rod thereto, a shade fixture provided with a channel portion slidably mounted upon the square projection of the curtain supporting plate and provided with an elongated slot, and a bolt located through the square projections of the attaching plate and curtain rod supporting plate for holding the curtain rod supporting plate in fixed relation to the attaching plate and allowing longitudinal adjustment of the shade fixture.

1,373,398. CUTTING DEVICE FOR FRUIT-DISINTEGRATING MACHINES. LELAND A. BABCOCK, Chicago, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 20, 1919. Serial No. 318,640. 13 Claims. (Cl. 146—11.)



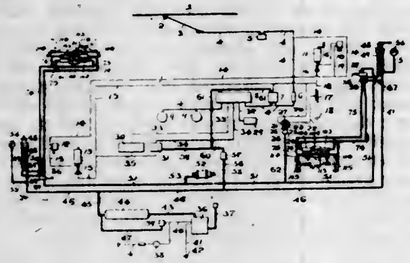
1. A cutting device of the class described comprising a sectional stationary cutting element, each section of said cutting element comprising a frame and a plurality of spaced knives; and means for forcing the material to be cut through said cutting element.

1,373,399. TONGUE AND TOP REINFORCEMENT FOR SHOES. LEON L. BEAN, Freeport, Me. Filed June 11, 1920. Serial No. 388,294. 4 Claims. (Cl. 36—54.)



1. In a shoe, the combination with a vamp, sides, and a tongue, of a reinforcing piece having lateral ears, said piece stitched to the bottom of said tongue and vamp, the lateral ears overlying the sides and stitched thereto, to permit the forward ends of said sides to overlie the tongue throughout its length.

1,373,400. COMBINED ELECTRIC AND PNEUMATIC SYSTEM FOR CARS AND THE LIKE. HERSHEL A. BENEDICT, East Orange, and EDVARD M. MOLLER, Jersey City, N. J. Filed Apr. 24, 1920. Serial No. 376,316. 14 Claims. (Cl. 180—82.)



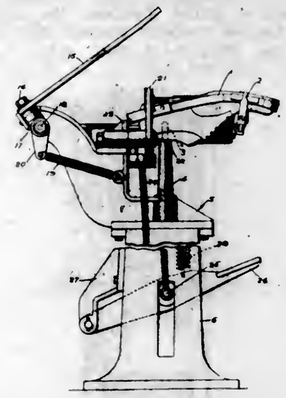
1. In combination with an electric system for operating cars, or the like, a make and break means in said system, a pneumatic system for actuating said make and break means, and a pneumatically controlled door-operating mechanism connected and coöperating with said pneumatic system, primarily for maintaining a locked arrangement of the car-door or doors while the car is running, and secondarily for opening the car-door or doors when the car has stopped.

1,373,401. CURTAIN-ROD AND SHADE-ROLLER SUPPORT. JOHN BENYEI, Cleveland, Ohio. Filed Mar. 26, 1920. Serial No. 368,912. 2 Claims. (Cl. 156—24.)



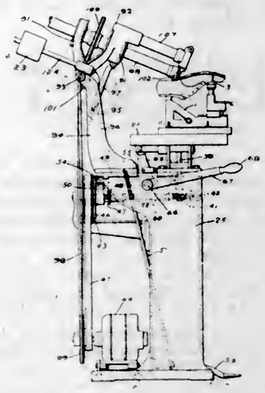
2. In a support for curtain rods and shade rollers, means for attaching said support to a window, adjustable curtain rod supporting means, a shade roller supporting member having an opening therein, and a resilient member curved back on itself at its extremity, and integral with and bent forwardly from said support, the end of said resilient member being arranged normally to close the upper end of the opening in said shade roller supporting member.

1,373,402. SHANK-LASTING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Apr. 14, 1915. Serial No. 21,425. 22 Claims. (Cl. 12—7.)



1. A lasting machine, having, in combination, a wiper, and means for operating the wiper to wipe the upper into lasted position against the edge face of the insole, substantially as described.

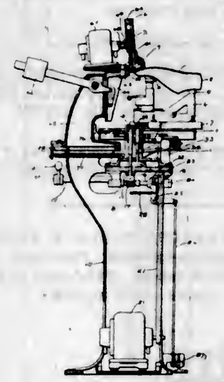
1,373,403. VAMP-TRIMMING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed May 8, 1915. Serial No. 26,742. 29 Claims. (Cl. 12—83.5.)



5. A machine for preparing a welted shoe for the sole laying operation, having, in combination, a rotary cutter, and a guard therefor mounted to turn automatically under the pressure of the work about the axis of the cutter, substantially as described.

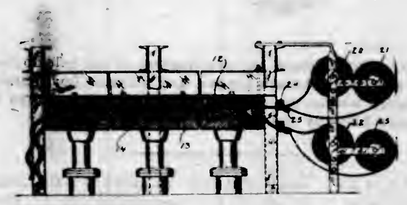
1,373,404. SOLE-ROUNDING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Nov. 4, 1915. Serial No. 59,655. 33 Claims. (Cl. 12—25.)

1. An insole rounding machine, having, in combination, a work support for a last having its bottom separated from its upper-shaping surface by an abrupt shoulder and having a roughly died out insole attached thereto, a cutter,



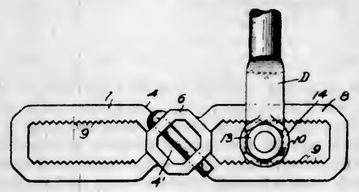
and means for relatively actuating the support and cutter to trim the edge of the insole around the last to the edge of the last bottom, substantially as described.

1,373,405. METHOD OF CURING AND SHAPING ARTICLES OF RUBBERIZED FABRIC. FRANK A. BROWN, Indianapolis, Ind., assignor to G. & J. Tire Company, a Corporation of Indiana. Filed Sept. 14, 1920. Serial No. 410,222. 3 Claims. (Cl. 18—53.)



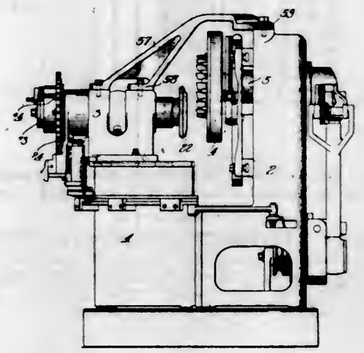
1. That method of curing and shaping vulcanizable fabric reinforcing members which includes interconnecting a series of the laminated fabric members, introducing the members successively while interconnected in a press for individual curing, and vulcanizing the member.

1,373,406. SWITCH-ARM. WILLIAM MILTON BROWN, EDWARD B. ENTWISLE, and HENRY C. STIFF, Johnstown, Pa. Filed Jan. 6, 1921. Serial No. 435,363. 8 Claims. (Cl. 246—404.)



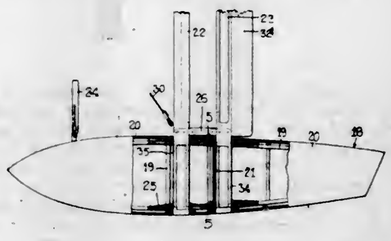
1. The combination with a switch stand having a vertical shaft, of a crank arm secured to the lower end thereof, having a plurality of serrations thereon, and a switch rod link adjustably clamped to said arm.

1,373,407. BRACE FOR GEAR-CUTTING MACHINES. EDWARD W. BULLOCK, SCHUYLER H. EARL, and GEORGE H. BRYAN, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Original application filed Nov. 30, 1917, Serial No. 204,686. Divided and this application filed May 8, 1920. Serial No. 379,719. 7 Claims. (Cl. 90—11.)



1. In a gear cutting machine, the combination with a blank support and a cutter support, of a brace, the ends of which are attached to the blank and cutter supports and the central portion of which extends around the area occupied by the gear blank and cutter.

1,373,408. PONTOON-MOUNTING FOR HYDROAEROPLANES. WILLIAM STARLING BURGESS, Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed July 12, 1918. Serial No. 244,651. 7 Claims. (Cl. 244—2.)

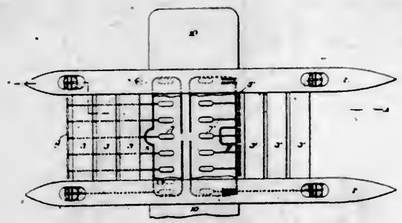


1. In an airplane, a fuselage comprising an inside framework and an outer covering within which the framework is inclosed, a pontoon mounted beneath the fuselage and having a rigid hydroplaning surface, and a mounting for the pontoon including a supporting strut deeply embedded in the fuselage at one end and deeply embedded in the pontoon at its opposite end, the first mentioned end of the strut being fastened to the fuselage framework and the opposite end directly fastened to the hydroplaning bottom surface of the pontoon.

1,373,409. AIRCRAFT. CHARLES H. CASPAR, Philadelphia, Pa. Filed Aug. 28, 1919. Serial No. 320,358. 16 Claims. (Cl. 244—18.)

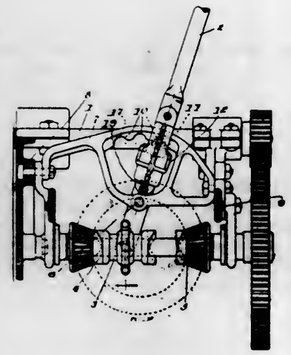
1. In an aircraft, the combination of a movable casing, a propeller arranged adjacent said casing and adapted to direct a current of fluid therethrough, a plane within

said casing fixed at one end with respect thereto, and means whereby the opposite end of said plane may be



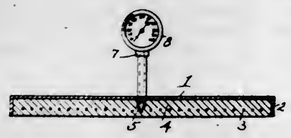
moved to cause said plane to assume a position in angular relation to the normal direction of flow of said current.

1,373,410. LEVER MECHANISM FOR CLUTCHES. EDWARD SANFORD CHARLES, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed July 10, 1915. Serial No. 39,140. 2 Claims. (Cl. 74—39.)



1. In a control mechanism, the combination of a member having rounded notched portions, a pivotally mounted control lever associated therewith and movable in a single plane, a guide member secured to said lever and having slots therein, and a spring-pressed member slidably mounted in said guide member having a roller in one end thereof to engage the rounded notches and having lateral extensions movable within the slots in the guide member.

1,373,411. CONTROLLING DEVICE. WARREN F. CLARK, Cleveland, Ohio, assignor to The Steam Electric Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 7, 1919. Serial No. 302,400. 5 Claims. (Cl. 219—37.)

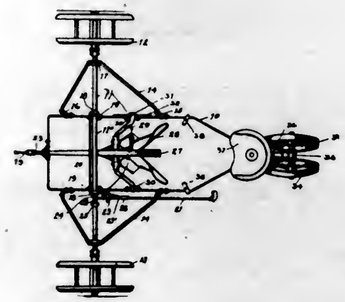


2. An apparatus of the character described, a plate, an electric heating coil coöperating with the under surface of said plate, a temperature responsive device directly cooperating with the under surface of said plate, a body of non heat conducting material embedding the said coil and the said temperature responsive device, a pair of contacts and means operated by the temperature responsive device for moving one of said contacts.

1,373,412. ADHESIVE WATERPROOFING AND SIZING COMPOSITION. AUGUSTUS E. CRAVER, Cliffside, N. J. Filed June 8, 1920. Serial No. 387,383. 19 Claims. (Cl. 134—20.)

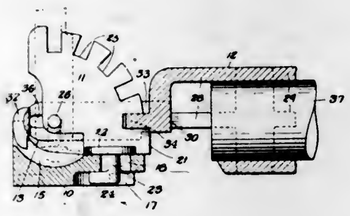
1. A composition of matter, comprising a proteid, an aqueous solvent therefor, and a formaldehyde liberating substance.

1,373,413. LISTER-PLOW. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed July 8, 1919. Serial No. 309,387. 8 Claims. (Cl. 97—36.)



1. In a lister plow, the combination of an axle formed with a vertical arcuate portion and a frame horizontally positioned within the arcuate portion and mounted to be shiftable laterally thereon.

1,373,414. ADJUSTABLE FLAGSTAFF-HOLDER. ALEXANDER C. ELPHINSTONE, West Orange, N. J. Filed May 7, 1920. Serial No. 379,434. 3 Claims. (Cl. 248—37.)



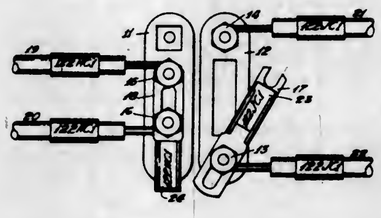
3. An adjustable flagstaff holder comprising a bracket member adapted to receive one end portion of a flagstaff, one end portion of said bracket member being provided with an elongated aperture, a member mounted in said elongated aperture and upon which said bracket member is radially and rotatably movable, said last named member being provided with a plurality of spaced apertures and said bracket member being provided with a part adapted to engage said recesses to retain said bracket member in any desired position of adjustment on said last named member, and means for guiding said bracket member in its radial movement.

1,373,415. FLUID-PRESSURE MOTOR. FRED A. ENGH, Johnstown, Pa. Filed Jan. 15, 1919. Serial No. 271,324. 5 Claims. (Cl. 121—34.)



1. In a motor of the class described, a casing, a cylindrical fluid pressure chamber eccentrically located therein, a revoluble shaft with reduced end portions mounted therein, a rear bearing therefor comprising a disk seated within the chamber, serving as a closure for the portion therebelow, a central perforation in said disk in which the rear reduced end of the revoluble shaft is journaled and exposed to the incoming fluid pressure, and a forward bearing comprising an accentric bushing provided with a flange concentric with the fluid pressure chamber.

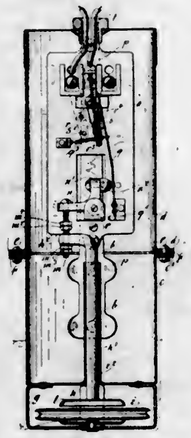
1,373,416. TAG AND TERMINAL-STRIP. EDWARD A. EVERETT, New York, N. Y. Filed Jan. 12, 1920. Serial No. 350,838. 4 Claims. (Cl. 40—16.)



1. In combination, an electrical conductor having a designation, a plurality of binding posts, a metallic link connecting said posts, a groove formed by turning over the edges of said link, a tag placed in said groove and having a designation corresponding to said conductor, means at one end of said groove for preventing the passage of said tag and one of said binding posts preventing the passage of said tag from the other end of said groove when said link is connected to said binding posts.

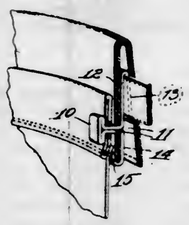
1,373,417. CONTROLLER FOR HEATING SYSTEMS. EDWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1919. Serial No. 321,310. 5 Claims. (Cl. 200—140.)

1. In a controller for heating systems, in combination with electrical control devices, a support for said devices, a thermostatic expansible vessel to actuate said control devices, operative connections between said vessel and the control devices, and means to support said vessel removably in operative relation to said connections, said means



comprising a U-shaped strap secured to the support for said electrical control devices and a second U-shaped strap rotatably mounted in the first named U-shaped strap.

1,373,418. COMBINED COLLAR-BUTTON AND NECK-TIE-GUIDING DEVICE. ALBION M. GOLDSTEIN, St. Louis, Mo. Filed July 30, 1920. Serial No. 400,190. 2 Claims. (Cl. 24—61.)

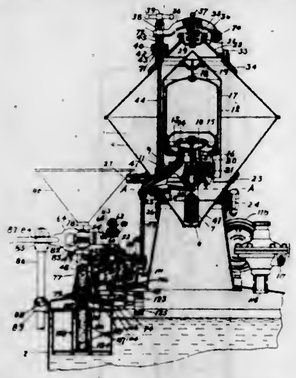


1. A combined collar button and necktie guiding device constructed from a single strip of metal bent to form a head, a shank portion extending laterally from said head, an inverted U-shaped portion extending upwardly from said shank portion, and a U-shaped portion depending from said shank portion, with the outer leg of said U-shaped portion disposed beneath and on the same side of the device with the shank portion and the head.

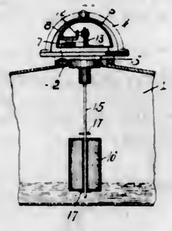
1,373,419. ACETYLENE-GENERATOR. NELSON GOODYEAR, deceased, New York, N. Y., by Katharine F. Goodyear, administratrix, New York, N. Y., assignor, by mesne assignments, to The Pneumatic Acetylene Generator Corporation, a Corporation of New York. Filed Apr. 21, 1917. Serial No. 163,654. 25 Claims. (Cl. 48—53.3.)

10. In an acetylene generator, a generator tank, a carbid receptacle having a feed orifice in its bottom, a feed valve for said orifice, a flexible diaphragm to which said valve is connected, said diaphragm having one side exposed to the pressure of the gas in said carbid receptacle, means for closing said valve when the pneumatic pres-

sures on opposite sides of said diaphragm are approximately equal, and means for causing a difference in pressure on the sides of said diaphragm in opposition to said means sufficient to open said valve.

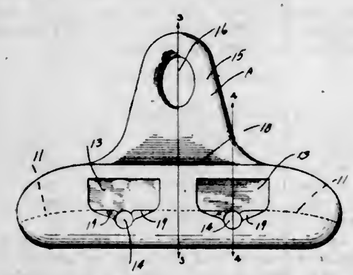


1,373,420. LOW-LIQUID ALARM. WILLIAM GRAH, Waterville, Ohio. Filed Dec. 6, 1920. Serial No. 428,448. 2 Claims. (Cl. 116—110.)



1. In combination, a liquid container, a resonant member carried by the container, a striker for said member, mechanism for imparting striking movements to the striker and including a rack-bar extending into the container, and a float carried by the rack-bar within the container and adapted to reciprocate the rack bar when the float is reciprocated, the float being carried by the rack-bar for limited movements longitudinally thereof whereby the float is permitted to gather momentum in its movement before imparting movement to the bar.

1,373,421. SUSPENSION-CLAMP FOR CABLES. WALTER A. GRAHAM, Salisbury, N. C. Filed June 11, 1920. Serial No. 388,383. 3 Claims. (Cl. 248—31.)



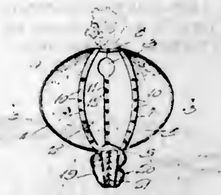
1. In a suspension clamp for cables, the combination of a cable supporting body having a longitudinal groove therein for the reception of a cable and having openings in the face thereof, bolts carried by said supporting body having relatively broad hooked heads thereon to engage a cable in the longitudinal groove and adapted for free insertion through the openings in the face of the supporting body, said bolts having relatively long threaded portions projecting through the opposite side of the supporting body, and nuts carried by said threaded portions and adapted for adjustment thereon to clamp or unclamp the cable without disconnection of any of the parts of the suspension clamp.

1,373,422. COIN-TESTER FOR COIN-CONTROLLED VENDING-MACHINES. ALBERT D. GROVER, Malden, Mass., assignor, by mesne assignments, to Autosales Corporation, a Corporation of New York. Filed July 25, 1913. Serial No. 781,072. 17 Claims. (Cl. 194—97.)



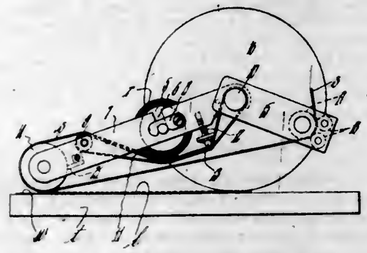
1. In a coin-controlled machine having a coin-slot for receiving a coin edgewise, washer-catching mechanism having a yieldable part adapted to engage in the opening of a partially inserted washer to lock the same against full entrance into the slot, and a second yieldable part extending across one end of said coin-slot to be thereby actuated by the entering washer and control the operation of said locking part, said mechanism permitting ready removal of the locked washer to clear the coin-slot, said second yieldable part engaging an entering good coin on the edge thereof and thereby snapping it through said slot.

1,373,423. COMEDIAN'S SUIT. IRVIN W. GRUHL, Los Angeles, Calif. Filed Dec. 29, 1919. Serial No. 348,245. 4 Claims. (Cl. 46—70.)



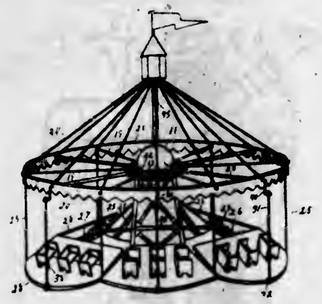
1. A comedian's suit comprising an inflatable ball having therethrough an opening for the user's body, said ball also having arm holes leading from said body receiving opening.

1,373,424. DEVICE FOR APPLYING METALLIC LEAF. LEON M. HARWOOD, Springfield, Mass. Filed Nov. 29, 1920. Serial No. 427,078. 6 Claims. (Cl. 41—7.)



4. In a device for applying metallic leaf, a receiving roll for the leaf having a surface partially capable of being electrified to hold the leaf by electric attraction in position on the roll

1,373,425. AMUSEMENT DEVICE. CHARLES AUSTIN HOADLEY, Louisville, Ky. Filed Mar. 8, 1920. Serial No. 364,090. 4 Claims. (Cl. 46—27.)



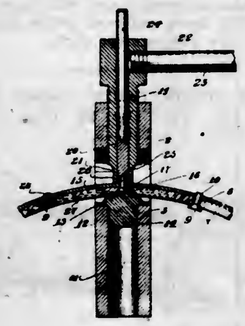
2. In a device as characterized, a tower, a depending structure rotatably mounted thereon, means for rotating said structure, floor sections carried by the structure and forming a continuous floor and means for rocking said sections independently and laterally relative to the travel of the structure.

1,373,426. MACHINE FOR TREATING HIDES, SKINS, AND LEATHER. HENRY A. HOLDER, Lynn, Mass. Filed Mar. 28, 1918. Serial No. 225,266. 7 Claims. (Cl. 149—16.)



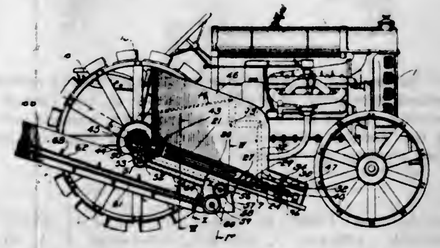
1. In a machine of the character described, in combination, a pair of rotatable rolls having helically arranged blades or vanes which interlock in the operative position of said rolls, one of said rolls having its blades or vanes provided at their outer or working surfaces and between the ends and sides thereof with working edges which extend transversely of said working surfaces at an angle to the length of the same.

1,373,427. RIVETING-MACHINE. ORVILLE E. HOUSER, Chillicothe, Ohio. Filed May 24, 1920. Serial No. 383,656. 3 Claims. (Cl. 78—46.)



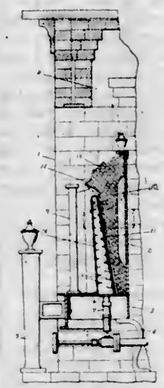
1. A riveting tool comprising a substantially U shaped frame having a pair of spaced upper and lower arms, a die head carried by the lower of said arms, said head being provided with a rivet forming extension capable of receiving and shaping the head of a rivet, a screw adjustably carried by the upper arm and situated in vertical alinement with said die head, said screw being capable of pressing work into clamped engagement between its lower end and said die head, and to cause the extension of said die head to be embedded in such work and a plunger slidably mounted in a bore provided in said screw and capable of engaging rivet shanks projecting from said work.

1,373,428. CORN-PICKER. JOHN T. HUGHES, Wakenda, Mo. Filed Dec. 7, 1918. Serial No. 265,729. 3 Claims. (Cl. 56—18.)



1. In combination with the power axle of a tractor, a drive shaft connected to the power axle of the tractor, a frame swingingly mounted upon the drive shaft, a harvesting mechanism on said frame, a conveyer carried by the frame and counter-balancing the harvesting mechanism, and means for adjustably tilting said frame.

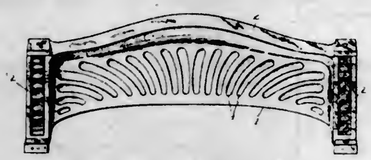
1,373,429. GAS-HEATER. ALFRED H. HUMPHREY, New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Filed May 2, 1918. Serial No. 231,991. 3 Claims. (Cl. 126—86.)



1. In a structure of the class described, the combination with a fireplace, of a gas heater disposed therein comprising a fireback of earthy material having a forwardly inclined face with an overhang at its top, the top of the fireback projecting substantially above such overhang and being of substantial body and rearwardly inclined so that in use it becomes heated and produces a back draft current in the products of combustion above the fire back, tubular foraminated radiating elements dis-

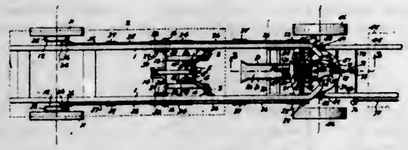
posed with their upper ends below but adjacent to said overhang of said fireback, and burners disposed below said radiating elements.

1,373,430. METHOD OF FINISHING METAL SURFACES. ALFRED H. HUMPHREY, New York, N. Y. Filed Dec. 31, 1918. Serial No. 269,139. 6 Claims. (Cl. 41—18.)



3. The method of finishing metal surfaces having raised portions consisting of applying enamel to the surface, removing enamel from the raised portions, and subjecting the surfaces to an electroplating bath whereby the raised portions are plated.

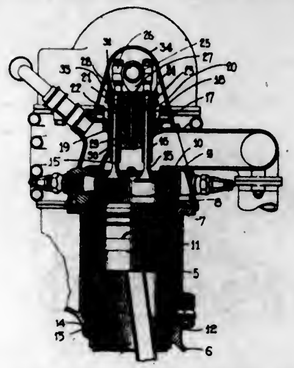
1,373,431. AUTOMATIC TRAILER-COUPLING MECHANISM. CHARLES J. JOHNSON, Bloomfield, N. J., assignor of one-half to Gustav A. Johnson, Newark, N. J. Filed Mar. 4, 1920. Serial No. 363,122. 11 Claims. (Cl. 280—33.1.)



1. The combination with a trailer chassis and a tractor chassis of a transverse shaft mounted at the forward end of said trailer chassis, tracker rollers mounted on said shaft, a forwardly projecting coupling yoke connected with said trailer chassis forward of said shaft and its rollers, a turn table mounted upon said tractor chassis to swivel in a horizontal plane, an automatic self locking coupling mechanism mounted on said turn table engageable with said coupling yoke by bumping contact therewith, and an inclined plane fixed to the rear end of said tractor chassis with the upper forward end of which said turn table is normally alined, said tracker rollers of said trailer chassis being adapted to ride upwardly over said inclined plane on to said turn table thereby lifting the forward end of said trailer chassis and guiding said coupling yoke into operative engagement with said automatic coupling mechanism.

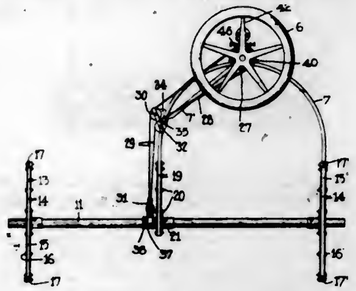
1,373,432. VALVE-OPERATING MECHANISM. CHARLES B. KIRKHAM, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Aug. 10, 1917. Serial No. 185,518. 4 Claims. (Cl. 123—90.)

1. A valve mechanism for internal combustion engines comprising a valve cage structure having valve stem openings formed therein with recessed mouths, flanged valve stem bushings in said openings with their flanges seated in said recesses, a pair of similarly characterized valves having their stems projecting through said bushings, a recess in said cage structure intermediate said valves having a flanged mouth, a flanged follower bushing seated in said recess with its flange bearing on the head of the recess flange, a T-headed follower having its shank guided by said follower bushing and bearing by its head on said valve stem, and a cam engaging the head of said T-follower at an intermediate point together



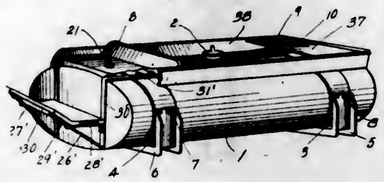
with yielding means engaging the valve stem bushings to retain the valves upon their seats.

1,373,433. CONTROL-COLUMN. HENRY KLECKLER, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed May 13, 1918. Serial No. 234,192. 6 Claims. (Cl. 244—29.)



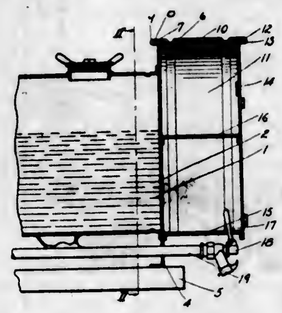
1. A bridge control for aircraft, comprising an elongated shaft, a walking beam fixed to one end thereof and consisting of a pair of sheet metal clamping plates with an intermediate filler of strengthening material, a control bridge mounted upon the other end of the shaft, said control bridge consisting of a pair of sheet metal clamping plates fixed to said shaft and an intervening filler of strengthening material, and cable connections between said walking beam and said bridge and the control surfaces for the purposes set forth.

1,373,434. TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas City, Mo. Filed Dec. 22, 1919. Serial No. 346,713. 6 Claims. (Cl. 280—5.)



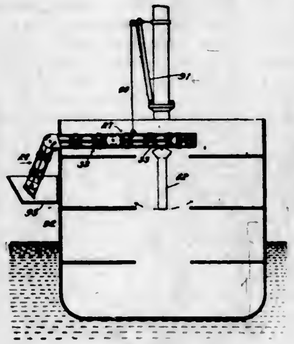
6. In a tank construction, a tank, a band about the tank, a seat on the tank, means for securing the seat to the band, a foot board support, means for securing the foot board support to the band, and a bolster beneath the tank and having upwardly extending portions connected to the band.

1,373,435. CAN-RACK. ANDREW A. KRAMER, Kansas City, Mo. Filed Apr. 30, 1920. Serial No. 377,794. 3 Claims. (Cl. 280—5.)



1. A tank having an end sheet projecting beyond the perimeter of the tank body, the lower portion of the sheet being bent to form a bolster, the upper portion of the sheet being bent at right angles to form a flange, and a can rack resting against the sheet and having a bent-over portion to form a groove receiving the flange.

1,373,436. APPARATUS FOR COALING SHIPS AND THE LIKE. LOUIS LOMBI, North Bergen, N. J. Filed July 17, 1919. Serial No. 311,444. 5 Claims. (Cl. 193—3.)



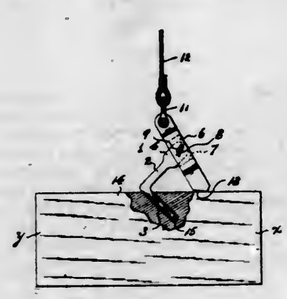
1. Apparatus for coaling ships and trimming the bunkers thereof comprising, in combination with such ship, movable conveyer apparatus therefor of the character described and means on the ship for supporting said apparatus and permitting of the positioning thereof with regard to the trimming of the bunkers, said apparatus comprising a main horizontal frame extending inwardly from the side of the ship into the interior thereof, a depending elevator-leg frame pivotally connected with the outer end of said horizontal frame and hanging over the side of the ship, means for locking said leg in fixed adjustment and relation to said main frame, a continuous flooring subdividing said main frame into upper and lower sections and said leg frame into outer and inner sections in continuation of said upper and lower sections, pairs of sprocket-wheels mounted in said frames, a pair of sprocket chains mounted on said wheels extending continuously through both of said frames, means for driving said chains, cheek-pieces closing the sides of said upper main-frame section and the sides of said outer leg-frame section, and scrapers secured to said chains and having transverse members adapted to engage the coal at the lower end of said leg frame and move it upwardly on said flooring through said leg frame and thence along said horizontal frame to the point of discharge.

1,373,437. LID OR CLOSURE FOR RECEPTACLES. VICTOR LOUGHEED, San Francisco, Calif. Filed Aug. 21, 1919. Serial No. 318,877. 12 Claims. (Cl. 184—91.)



10. A closure for receptacles comprising a hingeless cover, a projection from the inner surface of the cover adapted to support the cover upon the edge of the receptacle, and a fulcruming member adapted to bear against the inner wall of the receptacle at a point offset from the support, whereby it resists closing movement, and at a point adjacent the support, whereby it limits outward tipping movement of the cover; said fulcruming member being symmetrically extended on a plurality of sides of the support; and said cover having a spring tending to hold it in position.

1,373,438. SELF-LOCKING LIFTING DEVICE. JOHN MCDOWELL, Newark, N. J. Filed June 25, 1920. Serial No. 391,801. 3 Claims. (Cl. 294—89.)

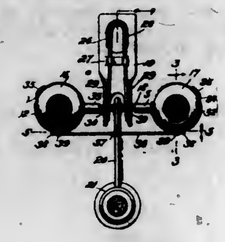


1. A self-locking lifting device for the purposes described, comprising an anchor member having a lateral extension at one end for engagement in an angularly disposed opening provided in the side of the material to be lifted, and a gripping lever member pivoted intermediate its ends to the opposite end of said anchor member, the upper free end of said lever member being adapted to be connected with a hoisting means, while the lower end of the same engages the upper surface of the material to be lifted.

1,373,439. DOLL'S HEAD AND EYES THEREFOR. SAMUEL MARCUS, Brooklyn, N. Y., assignor to F. & M. Novelty Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 16, 1920. Serial No. 374,258. 13 Claims. (Cl. 46—40.)

1. An eye-set for dolls and the like comprising a pair of globular eye-shells bearing the representation of the iris, means connecting said shells comprising metallic

bands encompassing the shells and adapted to be closely secured thereto, means for preserving the alinement of



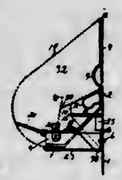
said bands on the shells, and means for effecting the rolling of the eyes on the movement of the doll.

1,373,440. DOLL'S HEAD AND EYES THEREFOR. SAMUEL MARCUS, Brooklyn, N. Y., assignor to F. & M. Novelty Co. Inc., New York, N. Y., a Corporation of New York. Filed May 19, 1920. Serial No. 382,569. 9 Claims. (Cl. 46—40.)



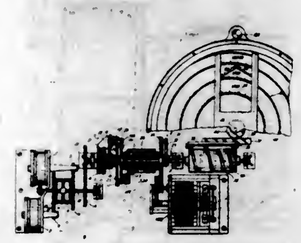
1. An eye-set for dolls and the like comprising a pair of globular eye-shells bearing at the front thereof a representation of the iris and having rearwardly extending integral necks, thimbles fitting over said necks and having spring fingers entering said necks, means securing the thimbles on said necks, a bridge connecting said thimbles, means for effecting a rolling action of the eyes on the movement of the doll and hangers secured within the head of the doll and having stirrups engaging the surfaces of the eye-shells and permitting of the movement of the same therein.

1,373,441. SANITARY FLYTRAP. HUGH E. MARTIN, Madison, Wis. Filed Apr. 14, 1920. Serial No. 373,903. 1 Claim. (Cl. 43—119.)



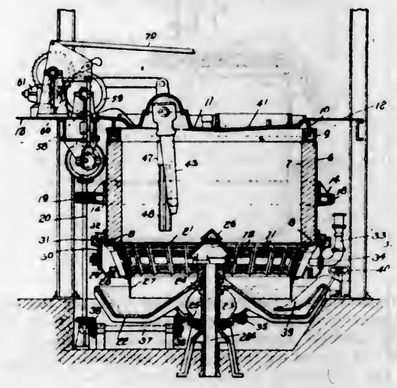
In a device for catching flies, a back plate, a wire frame attached to the same, brackets secured to the back and frame, a cage formed by wire screen secured to the back and frame, a detachable bottom pan, and means for closing the cage when the bottom is removed, separate entrances for flies to enter the cage, all of them concealed from view of the cage.

1,373,442. RANGE-INDICATOR. ELEMER MEITNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 15, 1915. Serial No. 61,480. 23 Claims. (Cl. 177—351.)



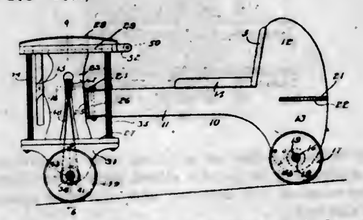
23. In combination, a movable member of a range finder having variable displacements for uniform changes in range, a member having uniform displacements for uniform changes in range and a mechanical driving mechanism interposed between said members for converting the variable movement of said first named member into a uniform rotary movement.

1,373,443. GAS-PRODUCER. JAMES C. MILLER, Pittsburgh, and ANDREW ISLES, Swissvale, Pa., assignors to The W. R. Miller Company, a Corporation of Pennsylvania. Filed June 14, 1919. Serial No. 304,323. 6 Claims. (Cl. 48—85.1.)



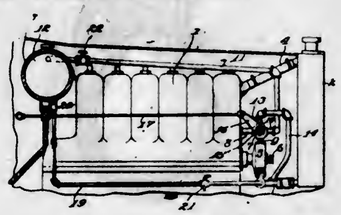
6. In a gas producer, a cylindrical body portion, means for rotatably mounting said body portion, an inwardly inclined grate carried by said body portion, an ash pan below said grate, means for rotatably supporting said ash pan, a stationary bustle pipe surrounding said grate, water seal troughs for sealing the joints between said bustle pipe and the revolving body portion, blast devices extending through said bustle pipe, and means for revolving said body and said ash pan in the same direction and at the same speed.

1,373,444. AIRPLANE-VELOCIPEDE. GEORGE H. NOBBS, Quincy, Mass., assignor to The Phonoharp Company, East Boston, Mass., a Corporation of Maine. Filed Oct. 31, 1917. Serial No. 199,456. 21 Claims. (Cl. 208—165.)



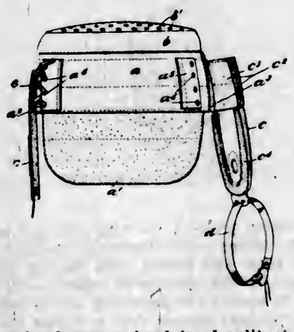
2. A child's velocipede comprising a body, a seat thereon, a front structure having a transverse member simulating the plane of an aeroplane, a pivotal connection between the said front structure and said body, and supporting wheels for said body and front structure.

1,373,445. WATER-COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. AARON M. PEREIRA, Marinette, Wis. Filed Apr. 12, 1920. Serial No. 373,283. 6 Claims. (Cl. 123—174.)



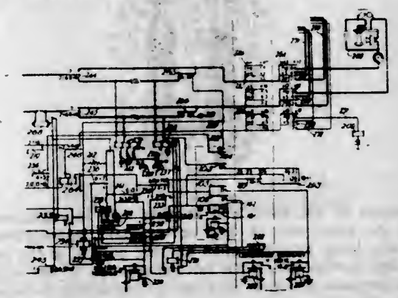
6. An internal combustion engine and its water-jacket, in combination with a water-supply tank for the jacket, a pump, a valve, and communicating connections between the tank, jacket, pump and valve, the valve being adapted to normally establish communication between the jacket and the discharge side of the pump and to abnormally establish communication between the pump and drain and between the jacket and the suction side of the pump, the pump being operable both to supply the jacket from the supply-tank and to drain both the jacket and the supply tank of their water.

1,373,446. HEADGEAR FOR ATHLETES. HOWARD MADISON PIERCE, Brooklyn, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Sept. 22, 1920. Serial No. 411,917. 3 Claims. (Cl. 2—192.)



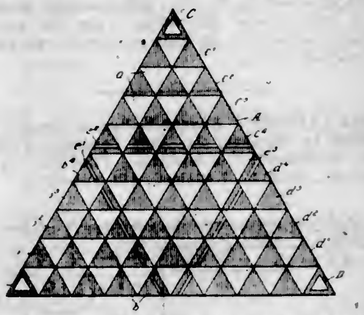
1. In a head gear a head band split at one side, an ear flap secured to the head band at one side of the split section and means carried with the ear flap to draw it over the split section adjustably and secure its free end to the head band.

1,373,447. TELEPHONE-EXCHANGE SYSTEM. LIPA POLINKOWSKY, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1920. Serial No. 358,173. 5 Claims. (Cl. 179—18.)



1. In a telephone system, a plurality of selective switches for establishing telephone connections, a multiposition register, means for sending series of current impulses, impulse mechanism responsive to one of said series of impulses for variably setting said register, means controlled by said register when in its set position for selecting one of said switches, said impulse mechanism being responsive to another series of impulses for again setting said register, and means controlled by said register in accordance with its subsequent setting for operating the selected switch.

1,373,448. GAME. ALEXANDER S. PRECINAUSKAS, Waukegan, Ill. Filed May 3, 1920. Serial No. 378,382. 3 Claims. (Cl. 46—64.)

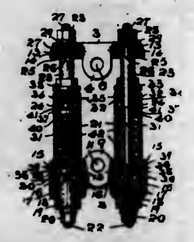


1. A game comprising a triangular board having a triangular space at each corner and parallel rows of triangular spaces extending inwardly from the corners, the corner spaces having a different appearance from the other spaces, and the alternate spaces in the rows being of a color contrasting with the color of the intermediate spaces in the rows, and a plurality of sets of reversible men, the men of each set being distinguishable from those of the other sets and one side of each man corresponding in appearance to the corner spaces on the board.

1,373,449. DOUBLE-ACTING ELASTIC SHACKLE. VALDEMAR F. REICH, Pittsburgh, Pa., assignor to Nathaniel Elin, Newark, N. J. Filed Oct. 1, 1919. Serial No. 327,770. 13 Claims. (Cl. 267—19.)

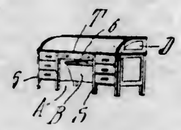
2. A shock-absorbing means comprising a cylinder, stem-receiving guides connected with the respective ends

of said cylinder, a load-carrying stem movable through said cylinder and said guides in a reciprocatory manner, a spring encircling said stem, a disk in engagement with one end of said spring, said disk being mounted upon one portion of the stem and moving therewith for compression of the spring in one direction with a corresponding



movement of the stem, and another disk in engagement with the other end of said spring, said last-mentioned disk also being mounted upon another portion of the stem and also moving therewith for compression of the spring in an opposite direction with the corresponding movement of the stem.

1,373,450. WASTE-PAPER BAG. ARCHIE D. ROBINSON, Westfield, Mass. Filed Mar. 22, 1920. Serial No. 367,735. 6 Claims. (Cl. 45—90.)



2. A receptacle for waste or the like, comprising a bag of flexible material and of generally rectangular shape designed to lie within the space between the spaced uprights of a desk or the like, and a bar-like handle for each of two opposite side walls of the bag and each elastically connected at its ends to its side wall adjacent the corners of the bag.

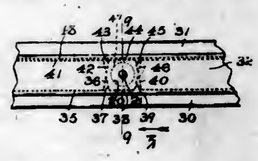
1,373,451. AIR-GUN. ERNEST S. ROE, Plymouth, Mich., assignor to Markham Air Rifle Company, Plymouth, Mich., a Corporation of Michigan. Filed Dec. 20, 1920. Serial No. 431,811. 7 Claims. (Cl. 124—10.)



1. In an air gun, the combination with a pair of sections pivotally connected to each other, of a link pivotally connected to said sections and adapted to hold the same in alinement, the pivot between said sections being to one side of the line between the link pivots when said sections are in alinement.

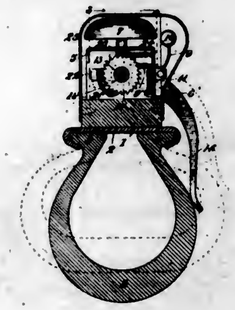
1,373,452. FASTENER STRIP OR FLY FOR GARMENTS. LEO ROSENMAN, Newark, N. J. Filed June 30, 1917. Serial No. 178,018. 3 Claims. (Cl. 2—58.)

1. A fastener-strip or fly for garments in the form of a piece of fabric comprising a face-member and a rear-member, said face-member being provided with suitably disposed holes or perforations, fastener-members disposed between said face and rear members, the locations of said fastener-members corresponding to the holes or perforations in said face-member, and stitching for securing said members together, said stitching comprising a longitu-



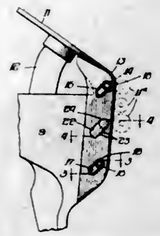
dinally extending line of stitching and transversely extending stitching to provide closed pockets in which said fastener-members are disposed and concealed against removal and loss.

1,373,453. AUDIBLE SIGNAL FOR PNEUMATIC TIRES. OTTO FRED SCHROEDER, Santa Ana, Calif. Filed Dec. 13, 1920. Serial No. 430,228. 5 Claims. (Cl. 116—34.)



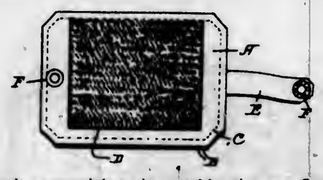
1. A tire alarm device comprising a base for attachment to a wheel, a bell secured thereto, a bell clapper associated with the bell and provided with a pawl integral therewith, a toothed wheel coöperating with the clapper for operating the same, a lever disposed to extend adjacent to the side wall of a vehicle tire, a pawl coöperating with the teeth of said wheel and connected with said lever to actuate said clapper in accordance with the degree of movement of the lever.

1,373,454. AUXILIARY TRACK FOR PRINTING-PRESSES. JOHN H. SCHUSSLER, Chicago, Ill. Filed Feb. 14, 1919. Serial No. 276,896. 5 Claims. (Cl. 101—340.)



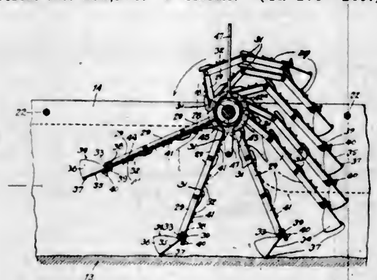
1. In a printing press of the type specified, auxiliary tracks for the inking rolls adjustably mounted on the frame of the press and having slots toothed along one edge, said frame having openings in register with the said toothed slots to receive and position a key in coöperative relation with the said toothed slots to adjust the tracks, and means for securing the tracks in the adjusted position.

1,373,455. BRUSH. JOSEPH AUGUST SKOGLUND, St. Paul, Minn. Filed Jan. 15, 1920. Serial No. 351,716. 1 Claim. (Cl. 15—28.)



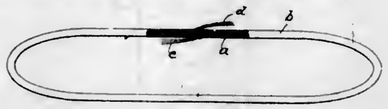
A brush, comprising, in combination, a flexible back having bristles on its under side, a strap forming a handle portion above the back and having an attaching tab freely extended from one end of said back, the handle portion of said strap being attached at its extremities near the ends of the back, a fastening member on the extremity of said handle portion opposite the tab and a companion fastening member on the free end of said tab, said strap serving both as a handle and as an encircling medium to secure the back in folded relation.

1,373,456. COMBINED WATER-WHEEL AND DAM. CHARLES W. SMITH, Chicago, Ill. Filed Sept. 16, 1918. Serial No. 254,270. 9 Claims. (Cl. 170—100.)



1. A combined water wheel and dam for rivers, streams and the like, comprising spaced abutments having opposed faces, a horizontal power shaft and a series of paddles mounted on said shaft each adapted to span the space between the faces of said abutments and said paddles having plates binged to their outer ends and adapted to contact with the river bottom, whereby a head of water is maintained above the wheel, such as described.

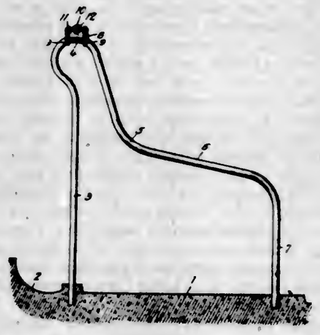
1,373,457. POWER-TRANSMISSION BELT. MANNING J. SMITH, Philadelphia, Pa. Filed Oct. 3, 1919. Serial No. 328,231. 5 Claims. (Cl. 74—63.)



1. An endless compound power transmission belt comprising an inner flat webbing and an inclosing tubular webbing, the ends of the flat webbing being secured together and positioned between the ends of the tubular webbing and the ends of the tubular webbing being secured together and positioned between the ends of the flat webbing.

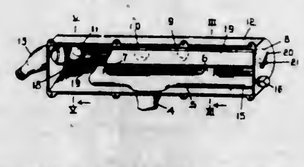
1,373,458. STALL CONSTRUCTION. CHARLES M. STEVENSON, Rockford, Ill., assignor to Iowa Gate Company, Cedar Falls, Iowa, a Corporation of Iowa. Filed Aug. 3, 1917. Serial No. 184,254. 4 Claims. (Cl. 119—27.)

1. The combination of a plurality of similar units, each consisting of a partition bar bent down at each end to constitute supporting legs, the bend at one end at the juncture of the bar and leg constituting a semi-circular



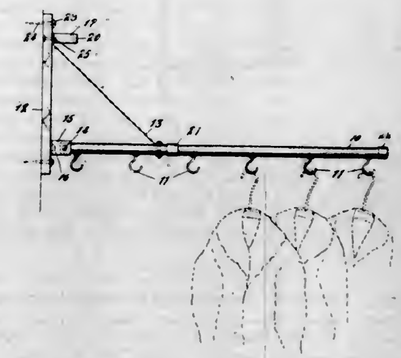
loop, a bar extending across said units at one of the ends thereof above the bent down leg at said loop, and means for rigidly fastening said units and bar together.

1,373,459. GAS-ENGINE MANIFOLD. JAMES W. STIRTON, Detroit, Mich. Filed June 28, 1917. Serial No. 177,481. 7 Claims. (Cl. 123—122.)



1. A multiple intake internal combustion motor, an exhaust manifold embodying a manifold enveloping the intake, and a vane disposed in the exhaust manifold transversely of the incoming exhausts for dividing the inflow therefrom.

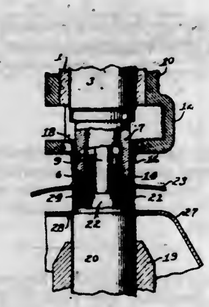
1,373,460. CLOTHES-HANGER. ROBERT C. STRIKER and CLARENCE C. STRIKER, New York, N. Y. Filed May 24, 1918. Serial No. 236,287. 1 Claim. (Cl. 45—13.)



A foldable garment hanger comprising a single portable unit embracing a member for attaching said hanger to a supporting surface, a socket member extending from the

lower end of the attaching member and comprising a back secured to said attaching member, side walls and a bottom, a cylindrical hanger arm having one end inserted in said socket member, a pin passing through the side walls of said socket member and the ends of said hanger at a point substantially forwardly of said attaching member for allowing the movement of said arm about said pin in a vertical plane to a position wherein the weight of said arm tends to hold said arm in folded position, hooks on said arm for carrying garments thereon whereby said garments in the folded position of said hanger assuming positions wherein the garments lie one on the other with the greater part of the weight thereof carried by said hooks, a chain flexibly supporting said arm from said attaching member in the extended position of said arm, and means for automatically locking said hanger member in the folded position comprising a spring member having a back secured to said attaching member, and spring jaws integral with and extending from said back, each of said springs jaws being convex toward each other at their extremities and concave toward each other for the remainder thereof, and a cylindrical metallic spring engaging, protecting ring on said hanger arm of larger diameter than said arm for entering said spring member with a minimum of friction and for spreading the springs to cause them to exert pressure on said ring after the entry of said ring between said spring.

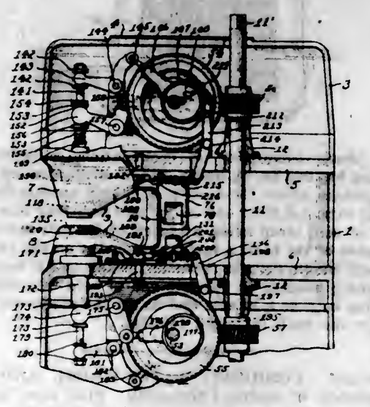
1,373,461. DIE FOR SETTING GROMETS AND EYELETS. JOHN LENARD STUART, Oakland, Calif., assignor to Stuart Machine Co., San Francisco, Calif., a Corporation of California. Filed May 4, 1920. Serial No. 378,901. 14 Claims. (Cl. 218—14.)



12. Die mechanism for setting a gromet and a coöperating washer comprising means for holding the gromet and washer in axial alinement; a pair of reciprocating members adapted to pass through the gromet and washer respectively and to coact to punch the gromet receiving hole in the work; an expansible tubular guide member, having a normal diameter less than that of the washer, for guiding said washer from said holding means into setting position with relation to the gromet and the work; and a pair of reciprocating annular dies surrounding said punch members and adapted to coact to set the gromet and washer in the work, one of said die members being further adapted to force the washer through said tubular guide member.

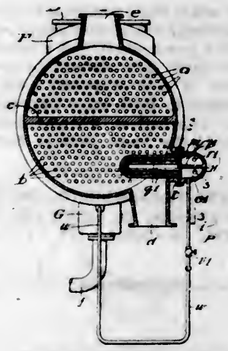
1,373,462. GROMET MAKING AND SETTING MACHINE. JOHN LENARD STUART, Oakland, Calif., assignor to Stuart Machine Co., San Francisco, Calif., a Corporation of California. Filed May 4, 1920. Serial No. 378,902. 16 Claims. (Cl. 218—14.)

16. In a machine for the described purpose, means for forming a gromet; means for forming a coöperating washer therefor; means for setting said gromet and washer; carrier members for transferring the gromet and washer from their respective forming means to the setting means; and devices for automatically removing



the set gromet and washer from the sphere of action of said setting means.

1,373,463. CONDENSING APPARATUS. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 17, 1919. Serial No. 271,622. 19 Claims. (Cl. 257—24.)

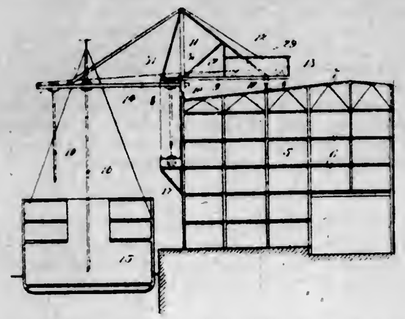


15. The combination with a surface condenser, of an ejector and a condenser receiving the discharge therefrom disposed in said surface condenser and cooled by the cooling medium thereof.

16. The combination with a surface condenser, of an ejector, and a condenser receiving the discharge therefrom disposed in said surface condenser and cooled by the cooling medium thereof before it reaches heat transfer relation with the condensable fluid therein.

17. The combination with a surface condenser, of an ejector mounted thereon, and a condenser receiving the discharge therefrom disposed in said surface condenser and cooled by the cooling medium thereof.

1,373,464. APPARATUS FOR FREIGHT TRANSFERENCE. GEORGE E. TITCOMB, Brooklyn, N. Y. Filed Apr. 24, 1920. Serial No. 376,221. 7 Claims. (Cl. 212—15.)



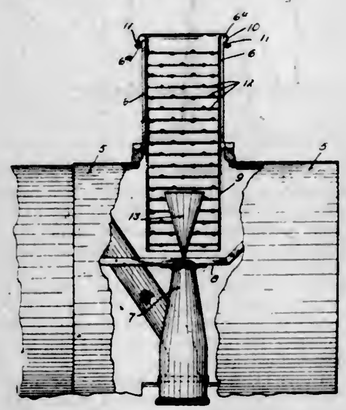
1. The combination with a building having a plurality of floors, of freight-handling devices comprising a movable floor-extension and power-operated means for delivering loads thereto and for moving the same horizontally and vertically along the walls of the building.

1,373,465. DOUBLE-TUBE RETURN-BEND. CHARLES HENDERSON TRUE, Hammond, Ind., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed May 24, 1919. Serial No. 299,623. 4 Claims. (Cl. 29—157.6.)



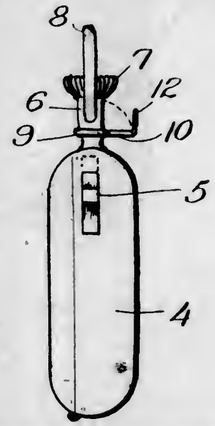
1. The process of making double-pipe return bends comprising the steps of connecting the ends of two pipes by an incomplete return bend, connecting the ends of two smaller pipes to form a complete return bend, inserting the latter into the former so that the two are substantially coaxial, and then finishing the incomplete bend.

1,373,466. SPARK-ARRESTER. JOHN A. TWEIT, Appleton, Minn. Filed Aug. 14, 1920. Serial No. 403,597. 5 Claims. (Cl. 110—121.)



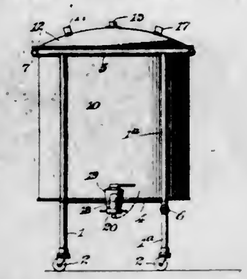
5. In a locomotive comprising a smoke box and an exhaust nozzle and a stack in alinement with said exhaust nozzle, a spark arresting device having in combination an open-ended shell supported in said stack and extending downwardly into the smoke box adjacent to the exhaust nozzle, parallel layers of transverse rods extending at right angles to each other carried by said shell, the rods in various layers being arranged to afford a staggered mesh, and an inverted cone supported in the lower end of said shell directly over said exhaust nozzle.

1,373,467. SAFETY ATTACHMENT FOR STOP-WATCHES. HARRY E. VON KERSBURG, New York, N. Y., assignor to R. H. Macy & Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 23, 1920. Serial No. 425,984. 7 Claims. (Cl. 58—74.)



1. A stop watch, and a device adapted to prevent accidental re-setting thereof, substantially as set forth.

1,373,468. COOLING APPARATUS. MANFRED WAHL, Philadelphia, Pa. Filed July 26, 1919. Serial No. 313,543. 3 Claims. (Cl. 267—189.)

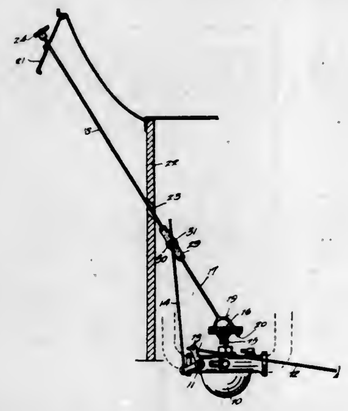


2. In cooling apparatus, the combination of a receptacle, oval in cross section, a support upon which the said receptacle stands, a tubular member of oval shape surrounding the said receptacle adjacent its upper edge, said member being provided with perforations upon its inner, lower side, and means for supplying a cold liquid to the said member, said liquid being adapted to escape through the said perforations onto the surface of said receptacle.

1,373,469. CARBURETER CONTROL. WILLIAM D. WARNER, Columbus, Ohio. Filed Jan. 29, 1920. Serial No. 354,789. 2 Claims. (Cl. 137—144.)

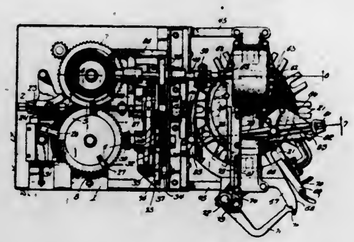
1. A device for use in connection with an automobile having a carbureter provided with a mixture regulating valve and an air supply having a choker valve, said device

comprising control rods one of which is directly connected at one end to the said choker valve and the other of which is connected at one end to said regulating valve, the control rod of the regulating valve having a control button at its opposite end and being in two axially alined sections slidable relatively to one another and constrained to



simultaneous rotation, a yoke having extensions through which said rod sections are rotatable, a sleeve within the yoke around the adjacent ends of the rod sections and connected to one of the rod sections to engage and move the yoke when the rod section is shifted in the direction of its length, and a swiveled connection between the other end of the choker valve rod and the said yoke as described.

1,373,470. BAG-TYING MACHINE. ROGERS M. WARWICK, Chicago, Ill., assignor to General Wire Tie Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 7, 1919. Serial No. 288,424. 8 Claims. (Cl. 140—93.)



1. In a machine of the kind specified, the combination with mechanism for forming a loop of wire about an object to be tied, of means for tying said loop comprising a rotatable element equipped with means for engaging the ends of the wire loop, gearing for effecting rotation of said head through a predetermined number of revolutions, and stop mechanism associated with said gearing including a projection on one of the gear elements, a spring-held dog normally positioned in the path of travel of said projection for holding the same against movement in one direction, and means associated with said gearing including a rocking lever and a spring-held projection carried thereby adapted to be moved into the path of travel of said propection at regular intervals for preventing movement thereof in the other direction, said last-named projection normally bearing upon the first-named propection to hold the same engaged with said dog.

1,373,471. PROCESS OF SINTERING PHOSPHATIC MATERIALS. FRANK S. WASHBURN, Rye, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed July 23, 1920. Serial No. 398,552. 8 Claims. (Cl. 204—31.)

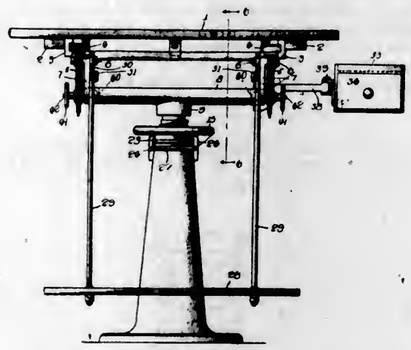
1. The process of extracting phosphoric acid which consists in providing a mixture of phosphatic particles and silicious particles of the run of the mine sizes, sintering the constituents of said mixture together to form a porous mass; charging said mass with carbon into an electric furnace; subjecting said porous mass to a temperature sufficient to evolve the phosphorous present; and recovering said phosphorus, substantially as described.

1,373,472. MOLDED RUBBER ARTICLE. HARRY WEIDA, Highland Park, N. J., assignor to India Rubber Company, a Corporation of New Jersey. Filed Nov. 19, 1915. Serial No. 62,343. 4 Claims. (Cl. 204—29.)



1. A rubber battery vent having a one-piece socketed and threaded body, and a diaphragm, said body being shaped to frictionally grip and retain said diaphragm, and both said body and diaphragm having one or more unobstructed apertures permitting escape of gases at all times.

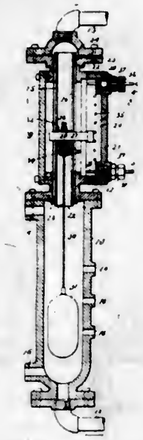
1,373,473. DRAWING-BOARD TABLE. FRANK OSCAR WEYDELL, Chicago, Ill. Filed Dec. 12, 1919. Serial No. 344,371. 15 Claims. (Cl. 45—110.)



4. The combination with a pedestal and a vertical post carried thereby, of means for clamping together the post and pedestal, a nut engaging the threads of the post to adjust it vertically, a crossbar supported by the post and having lateral arms, segments pivoted to said arms, respectively to rock on a common horizontal axis and provided with slots concentric with the segment pivots, a rod carried by the crossbar, passing through the slots and carrying devices for locking it therein, and a drawing-board supported by the segments.

15. The combination with a pedestal, of an axial externally screw threaded post clamped in the pedestal, a board-supporting framework above, and a socket, forming part of the framework, passed over the top of the post and drawn down into rigid connection therewith by a screw.

1,373,474. ELECTRICAL RECORDING OR INDICATING APPARATUS FOR BOILERS. JAMES M. WIGHT, Lakewood, Ohio, assignor, by mesne assignments, to The United Banking & Savings Company, trustee, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 9, 1917. Serial No. 153,610. 3 Claims. (Cl. 200—84.)



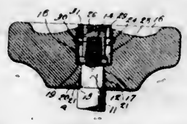
2. In a water level recording or indicating apparatus for boilers, a float chamber including a portion adapted to receive contacts, a conducting member on the interior of, and extending lengthwise of said portion of the chamber and insulated therefrom, a float, a movable contact adapted to engage and to be moved lengthwise of said insulated conducting member, a stationary contact adapted to be engaged by said movable contact, one of said contacts extending through an opening in said insulated conducting member, and means for making an electrical connection with said member.

1,373,475. LIFTING-JACK. LE ROY WILLOUR, Ashland, Ohio, assignor to The Ashland Products Company, Ashland, Ohio, a Corporation of Ohio. Filed Sept. 12, 1919. Serial No. 323,271. 5 Claims. (Cl. 254—111.)



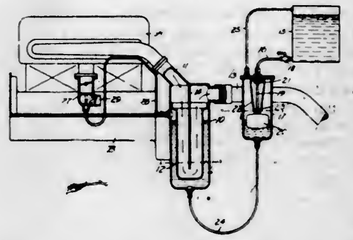
1. In a lifting jack, a standard, a lifting bar mounted for vertical reciprocation therein, a ratchet adapted to actuate said bar, a shaft mounted on said standard, a handle receiving socket pivoted upon said shaft and having a pair of spaced arms, a pawl pivoted upon said shaft intermediate said arms, a pin mounted in said arms, a second pawl pivotally mounted upon said pin a spring engaging said pawls and tending to force them into engagement with said ratchet, a reverse lever pivoted to said socket and normally engaging said pawls and withdrawing them from engagement with said ratchet and means for withdrawing said lever from engagement with said pawls.

1,373,476. VALVE-HANDLE. JOHN G. ZOLLEIS, Newark, N. J. Filed Jan. 19, 1921. Serial No. 438,309. 12 Claims. (Cl. 16—171.)



1. A handle adapted for a standard valve stem having a shank of angular cross section and a threaded element for receiving the handle, said handle comprising a body portion provided with a bore, the walls of which are adapted to fit the valve stem shank and provided with a cavity in alinement with said bore, a securing means in said cavity and adapted for coaction with the threaded element of the stem and means for retaining said securing means against displacement from the cavity.

1,373,477. GAS-GENERATOR. DONALD J. ANGUS, Indianapolis, Ind., assignor to John W. Esterline and Donald J. Angus, Indianapolis, Ind., Copartners under the firm-name of Esterline & Angus. Filed June 12, 1916. Serial No. 103,264. 1 Claim. (Cl. 48—102.)

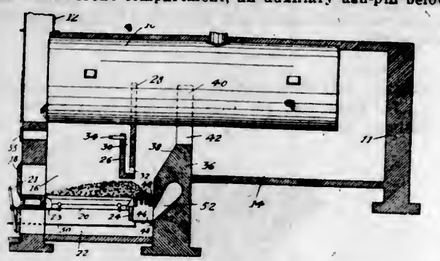


In a gas generator the combination of a fuel containing chamber fed at the bottom from a supply chamber, said fuel containing chamber having a heating chamber therein open at the top and spaced from the walls of said fuel containing chamber, a baffle extending into and partitioning the heating chamber, means for introducing hot gases on one side of the baffle and discharging them on the other after said gases have twice traveled the length of the heating chamber, said supply chamber being located above the said fuel containing chamber to feed the fuel thereto under an appreciable head, a liquid fuel reservoir located to the deliver fuel to said supply chamber under an appreciable head, automatically operated means within the supply chamber for initially maintaining the liquid fuel therein at the same level with that in said fuel containing chamber, said automatic control being also operable to check the feed of liquid from the reservoir upon the generation of back pressure in the fuel-containing chamber, and a vapor outlet from the fuel-containing chamber to a carbureter.

1,373,478. SMOKE AND GAS BURNING FIREBOX. CHESTER E. BETCHER, Minneapolis, Minn. Filed Aug. 21, 1918. Serial No. 250,774. 2 Claims. (Cl. 110—65.)

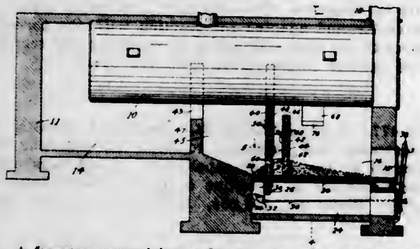
1. A furnace comprising a fire-box, a wall member dividing said fire-box into front and rear compartments, said wall member being spaced above the bottom of the fire-box and provided with flues leading from said front

compartment to said rear compartment, a main ash-pin below said front compartment, an auxiliary ash-pin below



said rear compartment and means for supplying preheated air to said auxiliary ash-pit.

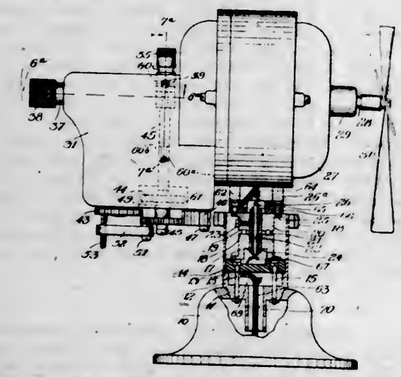
1,373,479. SMOKE AND GAS BURNING FIREBOX. CHESTER E. BETCHER, Minneapolis, Minn. Filed Sept. 6, 1918. Serial No. 252,834. 4 Claims. (Cl. 110—65.)



1. A furnace comprising a fire-box, two fire walls in said fire-box, said fire walls being spaced apart and the front fire wall being shorter than the rear fire wall whereby a passage is provided over the front fire wall leading under the rear fire wall, said fire walls being provided with horizontal flues for supplying preheated air to support combustion and means for delivering fresh air to said flues.

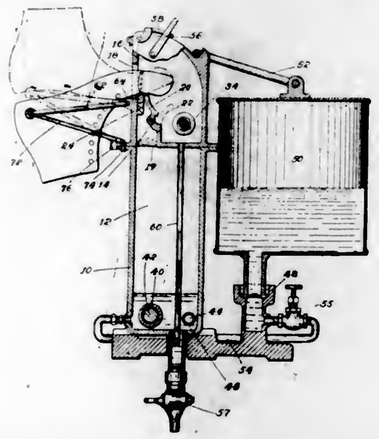
4. A furnace comprising a fire-box having a stationary bar extending across the bottom thereof, two fire walls in said fire-box, said fire walls being spaced apart and the front fire wall being shorter than the rear fire wall whereby a passage is provided over the front fire wall leading under the rear fire wall, and blocks supporting the center of each of said fire walls, said blocks resting upon said stationary bar.

1,373,480. FAN. KENNETH BRAINERD, Rochester, N. Y. Filed Nov. 17, 1919. Serial No. 338,427. 10 Claims. (Cl. 230—1.)



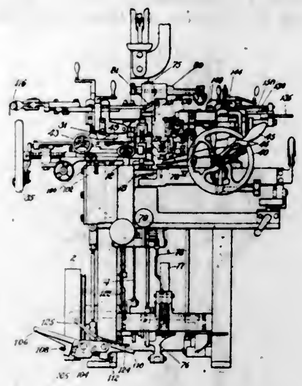
10. The combination with a blower, of a support therefor, a frame for the blower movable therewith on the support, and gears carried by said frame and shiftable to positively rotate or oscillate said blower.

1,373,481. TOE-SOFTENING MACHINE. MATTHIAS BROCK, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 28, 1917. Serial No. 151,587. 19 Claims. (Cl. 12—1.)



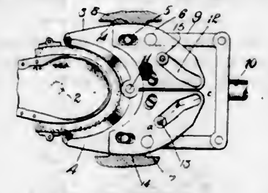
1. A shoe-treating apparatus comprising a treating device having a vaporizing chamber, vaporizing means arranged therein below the treating locality, and means arranged to heat the vapor rising from said vaporizing means to the treating locality.

1,373,482. LASTING-MACHINE. MATTHIAS BROCK, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 11, 1917. Serial No. 161,341. 55 Claims. (Cl. 12—14.)



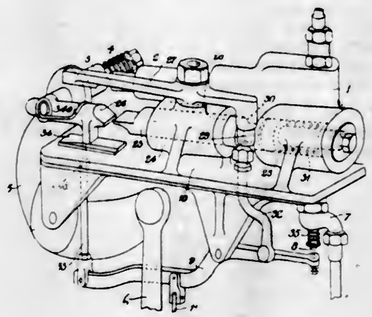
1. In a lasting machine, the combination with toe lasting mechanism, of means for supporting a shoe comprising a toe rest having a shoe engaging member extending transversely across the shoe, mountings therefor permitting said member freely to turn about a vertical axis to adapt itself to an inclination rearwardly toward the right or toward the left of the top face of a right or a left crooked last respectively, and means to hold the rest normally in centralized position.

1,373,483. METHOD OF END-LASTING. MATTHIAS BROCK, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 11, 1917. Serial No. 185,693. 17 Claims. (Cl. 12—145.)



1. The improvement in methods of end lasting which consists in folding over the edge of a last bottom the margin of upper materials extending around the end of the last and wiping them radially inwardly approximately to the tacking line and then, without substantially relaxing the wiping pressure on the folded over stock, wiping the margin of the upper in a direction substantially lengthwise of the last.

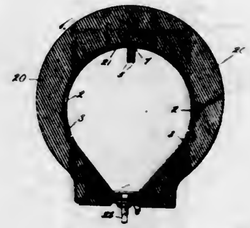
1,373,484. MEANS FOR REVERSING INTERNAL-COMBUSTION ENGINES. HERBERT BROOKS, Yeovil, England, assignor to Petters Limited, Yeovil, England. Filed July 19, 1920. Serial No. 397,247. 6 Claims. (Cl. 123—41.)



1. The method of reversing the direction of rotation of internal combustion engines of the kind in which liquid fuel is supplied to an engine cylinder by means of a fuel pump and plunger operated from the crank shaft of the engine, which consists in diverting the charge supplied by the fuel pump so as to prevent the charge from entering the combustion chamber of the cylinder in order to reduce the engine speed previous to reversal, then rendering inoperative the means employed for the said diversion of the fuel so as to permit the fuel to again enter the combustion chamber of the cylinder, and supplying an earlier and abnormally large injection into the cylinder to effect the reversal.

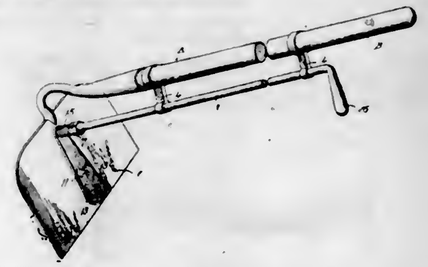
1,373,485. INNER TUBE FOR TIRES. OWEN T. BUGG, Poughkeepsie, N. Y., assignor, by mesne assignments, to Canvas Inner Tube Company, a Corporation of Delaware. Filed Aug. 4, 1920. Serial No. 401,161. 4 Claims. (Cl. 152—13.)

1. An inner tube for pneumatic tires comprising a pair of annular members of non-stretchable, flat, flexible material united at their inner edges to form an air-tight joint, and united at their outer circumferences to form in the finished tube a movable joint adapted to move against the



inner surface of the casing, when the tube is being inflated, substantially as described.

1,373,486. HOE-CLEANER. LEROY CARLSON, Hancock, Minn. Filed July 19, 1920. Serial No. 397,258. 8 Claims. (Cl. 55—146.)



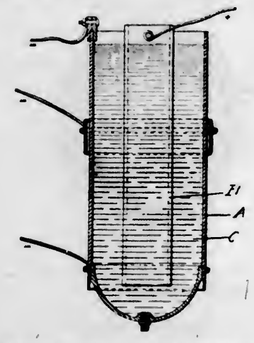
1. A cleaning device for ground working implements comprising laterally swingable cleaning members, and means for actuating the cleaning members operable from a point adjacent the grip portion of the handle of a ground working implement.

1,373,487. THREAD-GUIDE. FREEMAN CASS, Brooklyn, N. Y., assignor to Mitchell-Bissell Co., New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1919. Serial No. 276,993. 5 Claims. (Cl. 242—157.)



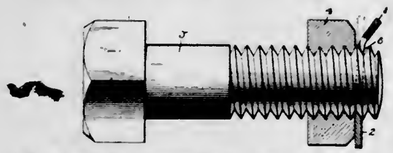
1. In a thread guide for textile machines, the combination with a cylindrical vitreous body having an axial thread opening and a slot extending from said opening to the periphery, of a holder comprising a wire or strip of substantially uniform cross section doubled on itself midway of its length into substantial parallelism to form a stem of predetermined length, and having the portions beyond said stem toward the free ends symmetrically and oppositely bent in semicircular form with the projecting ends beyond said semi-circular parts bent outwardly from each other to form means for engaging and holding said body, and a shank having an open end socket to receive and fit laterally around said stem to support it and prevent spreading.

1,373,488. PLATING. CHARLES H. CHANDLER, Newport, R. I. Filed June 26, 1919. Serial No. 307,000. 4 Claims. (Cl. 204—8.)



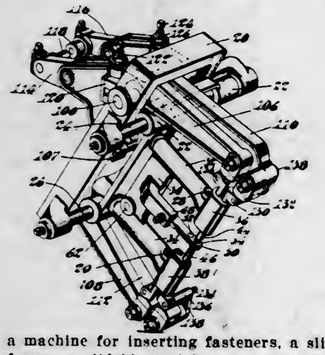
1. The method of lining a torpedo flask or the like, consisting in gradually electrolytically depositing on it as a cathode a progressive increasing alloy of lead and tin as a dense coating from an electrolyte progressively built up from a lead salt of hydrofluosilicic acid and a solder anode.

1,373,489. NUT-LOCK. CHARLES ROYAL COCHRAN, Vale, Oreg. Filed Nov. 29, 1919. Serial No. 341,364. 5 Claims. (Cl. 151—30.)



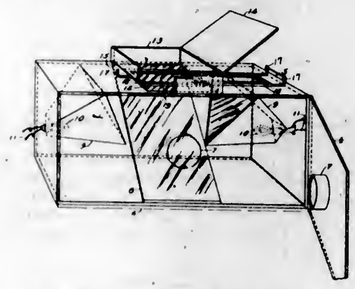
2. A nut lock comprising a ring or washer internally threaded to engage the bolt upon which the nut is to be locked, said lock having a thickness equal to half the thickness of the base of the thread of the bolt, and having inwardly extending teeth opposite the point where the thread of the lock makes a groove obliquely across the inner edge of the lock, said teeth being of greater height than the height of the thread, and being adapted to be moved into and out of engagement with the threads of the bolt by the bending laterally of that segment of the lock to whose base the bases of the teeth are attached, said lock having a segment thereof bent obliquely to the body, said segment having its base at the base of the teeth.

1,373,490. MACHINE FOR INSERTING FASTENERS. JOHN F. DAVEY, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 22, 1917. Serial No. 197,888. 16 Claims. (Cl. 218—15.)



3. In a machine for inserting fasteners, a slidable supporting frame, a slidable tool-frame carried thereby and arranged to slide relatively thereto along lines at right-angles to the lines of movement of the supporting carriage, oppositely disposed tools carried by and movable relatively to said tool-frame, an abutment also carried by said tool-frame to coöperate with said tools between the latter, and mechanism for reciprocating said frames along their respective lines of movement as aforesaid to locate the tools for operation on the work and to feed the latter.

1,373,491. PICTURE-PROJECTOR. FRANK J. DETWILER and MELVIN H. BURKHOLDER, Parkersburg, W. Va. Filed July 25, 1919. Serial No. 313,251. 2 Claims. (Cl. 88—26.)



1. In a picture projecting apparatus, a casing, said casing having a central opening formed in the upper surface thereof, a reflector plate positioned within the casing, the reflector plate being arranged at an angle with relation to the upper surface of the casing, and disposed directly under the central opening, a frame surrounding the central opening, said frame having a recessed portion, a picture supporting frame adapted to move under the first mentioned frame and through the recess, means for operating the picture supporting frame, and a cover for the first mentioned frame.

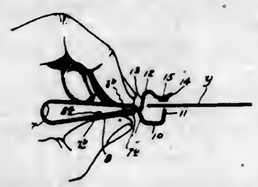
1,373,492. SAMPLE-TAKING DEVICE. REDUS D. DODDS, Houston, Tex. Filed Nov. 14, 1919. Serial No. 338,134. 1 Claim. (Cl. 255—72.)



A device of the character described including a drill stem, provided with a side opening, a core forming shoe attached to the lower end thereof and provided with an opening to permit the passage of the core therethrough, a core barrel within said stem and provided with side slots, dogs working through said slots, a tubular member within the stem around said barrel to the lower end of which the dogs are connected, means for locking said member in a fixed position in the stem, means for releasing said locking means to permit said tubular member to face against the dogs to force them into engagement with the core, said means when in active position sealing said

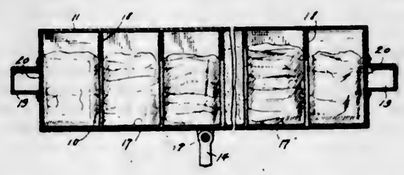
member against the passage of water downwardly therethrough, a valve controlling the side opening in said stem, means normally holding said valve closed, said tubular member acting to open the valve when released.

1,373,493. FILM-CLIP. GLEN M. DYE, Minneapolis, Minn. Filed Sept. 6, 1919. Serial No. 322,079. 4 Claims. (Cl. 24—259.)



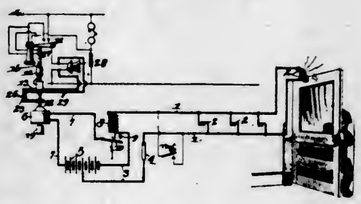
1. A film clip having coöperating jaws, the one jaw having pointed barbs and the other having laterally offset tubular bosses, into the offset sides of which bosses said barbs are arranged to enter in the clip-holding action, whereby the film will be perforated and positively held by engagement therewith only in the immediate vicinity of the points of perforation.

1,373,494. WASHING-MACHINE. WILLIAM B. FINK, New York, N. Y., assignor of one-half to George F. Hullings, New York, N. Y. Filed July 29, 1920. Serial No. 399,915. 1 Claim. (Cl. 68—21.)



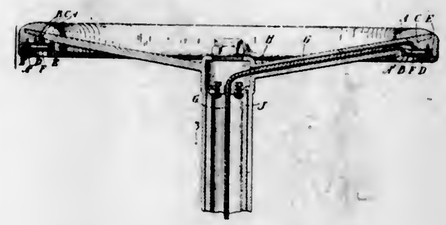
A washing machine comprising a fluid-tight receptacle pivotally supported intermediate its ends for a rocking movement longitudinally, means for rocking the receptacle, a plurality of clothes holders seating in the receptacle and occupying the space between the ends, the sides, and the top and bottom thereof, the walls of said holders being reticulated, and baffle plates between the holders for closing unoccupied portions thereof.

1,373,495. BURGLAR AND FIRE ALARM. LE ROY STEWART FOLTZ, Fort Collins, Colo. Filed Feb. 4, 1919. Serial No. 274,879. 11 Claims. (Cl. 179—5.)



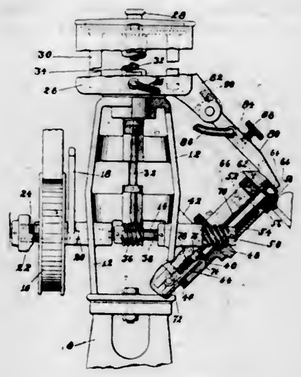
2. The combination in a burglar and fire alarm, of a receiver hook, an operatively associated electrical circuit with closable contacts, and an electro-motively and screw-actuated plunger, extensible by operation of the motor and screw to lift the hook while the receiver is on, upon energization of said device by the closure of a contact.

1,373,496. ELECTRICALLY-OPERATED HORN FOR MOTOR-VEHICLES. GEORGE FRECHEVILLE, London, England. Filed Sept. 1, 1920. Serial No. 407,545. 7 Claims. (Cl. 200—59.)



1. A vehicle steering wheel, comprising a rim having circumferentially extending members projecting therefrom, said rim and members presenting a circumferentially extending channel, a fixed contact plate secured in said channel, a movable contact plate normally separated therefrom and held in position by said members, and electrical connections for said plates.

1,373,497. BLACKING-MACHINE. FREDERICK M. FURBER, Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 22, 1917. Serial No. 143,799. 21 Claims. (Cl. 12—31.)

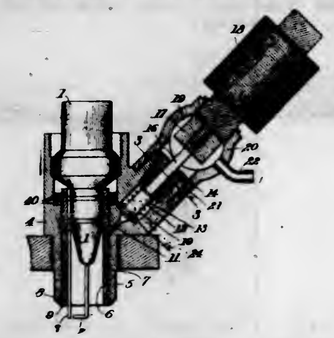


12. In a blacking machine, means for applying blacking to the sole of a shoe comprising a brush having therein a chamber for blacking, means for supplying blacking to said chamber comprising a nozzle, said nozzle and applying means being relatively movable laterally with respect to said applying means, means for yieldably forcing the nozzle and applying means into engagement, and means operating during the lateral movement for automatically controlling the flow of blacking through the nozzle.

1,373,498. LIQUID-FUEL-FEEDING DEVICE. THOMAS T. GAFF, Washington, D. C. Filed July 13, 1917. Serial No. 180,475. 8 Claims. (Cl. 123—131.)

8. In a fuel-feeding device for explosion engines, a measuring-chamber having exit and inlet openings, a valve for controlling said openings, a fuel conduit connected to said chamber, an armature connected to said valve and within said conduit, an electro-magnet mounted

on said conduit and having a pole-piece extending therethrough into proximity to said armature, and means for

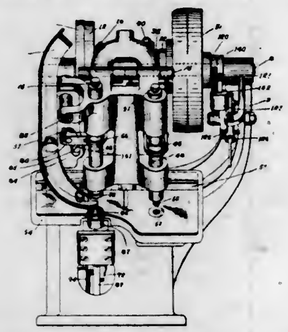


adjusting the air gap between the armature and poles of the magnet without disturbance of the valve adjustment.

1,373,499. FUMIGANT PAINT. HENRY A. GARDNER, Washington, D. C. Filed Dec. 27, 1920. Serial No. 433,396. 6 Claims. (Cl. 134—40.)

1. A fumigant coating composition containing a chlorinated benzol derivative.

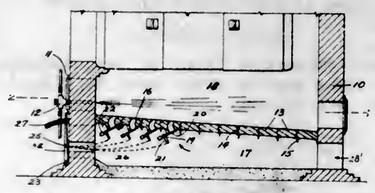
1,373,500. GROMET-SETTING MACHINE. PERLEY R. GLASS, Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 16, 1916. Serial No. 103,994. 19 Claims. (Cl. 218—15.)



19. A machine of the character described comprising a unitary frame, work-punching mechanism and fastener-setting mechanism both arranged in said frame so as to provide an unobstructed straight course from one to the other in which a piece of work may lie in operative position relatively to both said mechanisms simultaneously and so that a portion of the work may follow a substantially straight course from the punching position to the fastener-receiving position, a work table arranged to support the work in operative position relatively to both said mechanisms, and two disconnectible clutch mechanisms arranged in said frame so as to operate the first two said mechanisms respectively.

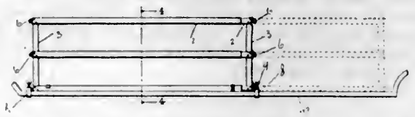
1,373,501. AIR CONTROL FOR OIL-BURNING FURNACES. GEORGE C. G. GRAY, Philadelphia, Pa. Filed Oct. 20, 1919. Serial No. 332,040. 7 Claims. (Cl. 158—4.)

1. Apparatus of the character stated comprising a furnace having a combustion chamber and an air chamber, a floor of refractory material separating said chambers, a plurality of air ducts forming means of communication between said chambers, a movable closure for each duct,



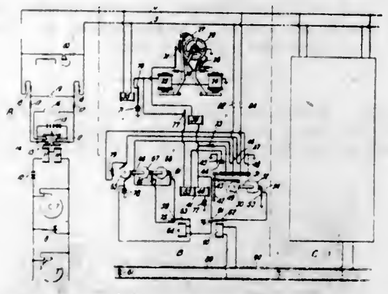
operating means common to all of said closures for controlling the passage of air through a selected number of air ducts and a burner for heating said furnace.

1,373,502. ADJUSTABLE LUGGAGE-CARRIER. JOHN R. GREEN, Girard, Tex. Filed Nov. 5, 1917. Serial No. 200,270. 1 Claim. (Cl. 224—29.)



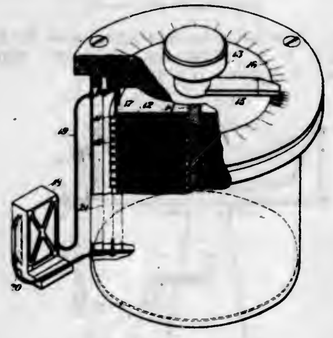
The combination in an adjustable luggage carrier for automobiles of four upright members forming a rectangular space, two pairs of horizontal members connected to the upright members at each end to form ends of the carrier, two pairs of horizontal members connected to said upright members to form the side next the automobile and three pairs of horizontal members in front, the upright members next the automobile being shorter than those in front, all said horizontal members slidably arranged one on the other and adapted to increase or decrease the width and length of said carrier, and a spring means for locking said horizontal members in position.

1,373,503. RAILWAY SIGNALING SYSTEM. JOHN BRAYTON HARLOW, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Apr. 9, 1915. Serial No. 20,221. 7 Claims. (Cl. 246—5.)



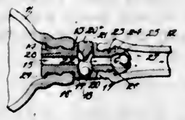
1. In a railway signaling system, a receiving station, a railroad track divided into sections, a line circuit extending from said receiving station along said railroad track, a signal sending device at each of a plurality of said sections, an operating circuit therefor, an electromagnet controlling said operating circuit and the connection of said signal sending device with said line circuit, a selectively operated device controlled over said line circuit from said receiving station, a track controlled device, and an energizing circuit for said electromagnet jointly controlled by said selectively operated device and said track controlled device.

1,373,504. ELECTRICAL MEASURING APPARATUS. HARRY W. HITCHCOCK, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 11, 1918. Serial No. 253,651. 7 Claims. (Cl. 250—41.)



1. In electrical condensers, the combination of two groups of plates, one movable relative to the other, the plates of each group being arranged for interposition between and insulated from the plates of the other group, a fixed capacity condenser having one side fixedly connected with the plates of the fixed group, and a connecting device fixedly joined with the other side of the said fixed capacity condenser and making a slidable contact directly with one plate of the movable group, whereby the said fixed condenser may be automatically connected in parallel with the said variable condenser.

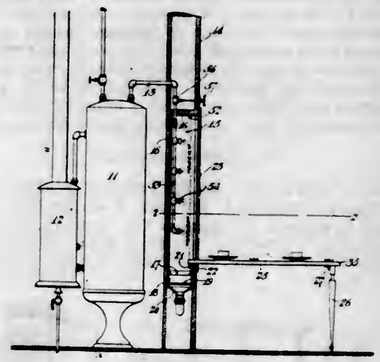
1,373,505. VALVULAR COUPLING. JAMES J. HOLLAND, Philadelphia, Pa. Filed May 7, 1919. Serial No. 295,316. 6 Claims. (Cl. 277—61.)



1. A valvular coupling of the character described including a casing having a longitudinally extending passage and a transversely extending passage communicating with said first passage; a stop plug in said transverse passage located at one side of the longitudinal passage, said transverse passage having a valve seat located at the side of said longitudinal passage opposite said plug; a valve located to move freely between the inner end of said plug and said valve seat, the portion of said valve casing including one end of said longitudinal passage being shaped to provide a coupling to which an air pumping bulb may be attached, said longitudinal passage at the opposite side of said transverse passage having a valve seat located inwardly from its end; and a valve interposed between said latter valve seat and said latter end of the longitudinal passage so that when air is forced through said first end of the longitudinal passage and outwardly through the opposite end thereof, said first valve, due to the pressure of said air, will be moved into engagement with its seat, and when suction is established in said first end of the longitudinal passage, said first valve will be opened thereby and permit air to enter said first end of the longitudinal passage through said transverse passage; substantially as described.

1,373,506. TABLE DISH-WASHING DEVICE. JESSE D. HOYT, Los Angeles, Calif. Filed Mar. 13, 1920. Serial No. 365,613. 5 Claims. (Cl. 141—9.)

2. In combination, a closet, a table pivotally mounted at one side of the closet arranged to close the closet when in elevated position, means on the table for securing dishes thereon, and means in the closet for directing water



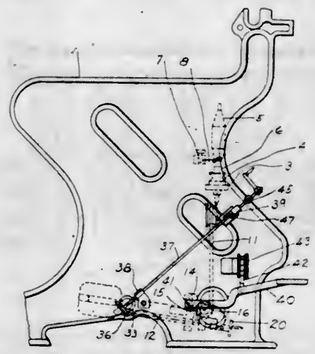
against the dishes on the table when the table is in elevated position.

1,373,507. FASTENING DEVICE. FRANK HYDE, Sioux Falls, S. D. Filed Mar. 17, 1920. Serial No. 366,478. 3 Claims. (Cl. 24—87.)



1. In combination in a fastening device, two members arranged face to face and slidable lengthwise in relation to each other, a loop carried by each member and embracing the other member and slidable thereon, one of said members having a series of notches and the other member having an extension beyond its loop with its longitudinal axis in line with the main body of the member, the end of said extension being adapted to engage the notches to hold the two members in different positions to which they may be adjusted, substantially as described.

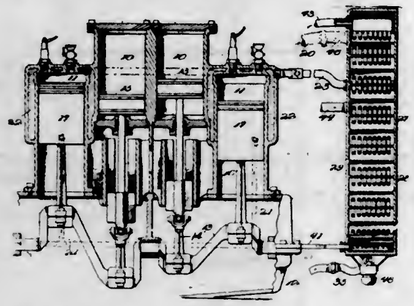
1,373,508. BUILDER-MOTION. JESSE JEFFERS, Uxbridge, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed Nov. 11, 1918. Serial No. 262,100. 1 Claim. (Cl. 242—43.3.)



In apparatus of the class described containing the following instrumentalities, viz: a plurality of spindles, a traverse member, yarn guiding means installed thereon, a cam controlling the movements of the traverse member,

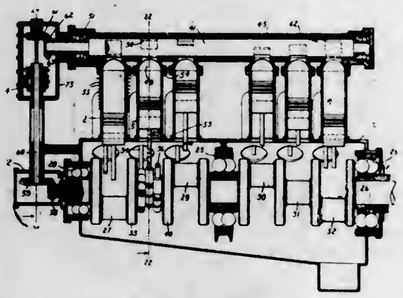
a builder lever actuated by the cam, bearings on the lever, a take-up shaft supported in the bearings, means for imparting an intermittent rotary motion to said shaft, a chambered stud serving as a fulcrum to the builder lever, an auxiliary shaft rotatable in bearings formed in the chambered stud, connecting gearing between the auxiliary shaft and take-up shaft, a manually operated "wind-down" shaft transmitting motion to the auxiliary shaft, means to maintain the "wind-down" shaft in or out of connection with the auxiliary shaft and locking means for the same.

1,373,509. COMBINED GAS AND STEAM SYSTEM FOR ENGINES. THOMAS A. KILLMAN, Nashville, Tenn., assignor to Killman Development Co., Nashville, Tenn., a Corporation. Filed Sept. 11, 1917, Serial No. 190,844. Renewed Jan. 6, 1921. Serial No. 435,534. 3 Claims. (Cl. 60—14.)



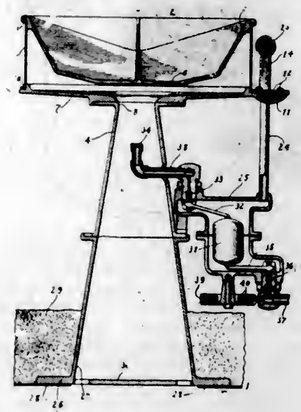
1. In a motor, the combination with firing cylinders having water jackets, and steam cylinders, of a combined boiler and radiator including a casing and a conveyer within the casing, means for maintaining a constant water level in the conveyer, means including the lower portions of the conveyer for maintaining a circulation of water through the water jackets, means for leading exhaust gases from the firing cylinders into the upper portions of the casing to heat the water within the conveyer, means for leading steam from the upper ends of the conveyer to the steam cylinders, and means for conducting the exhaust steam from such cylinders to the interior of said casing at a point adjacent the water level of the same.

1,373,510. MULTICYLINDER EXPLOSIVE-ENGINE. ERIC B. KRAMER, Brooklyn, N. Y. Filed Aug. 27, 1917. Serial No. 188,378. 5 Claims. (Cl. 123—55.)



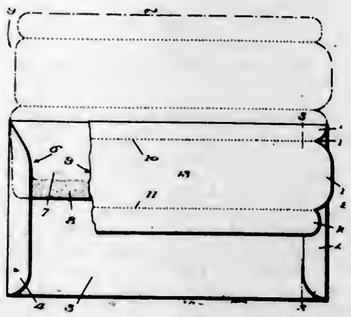
1. In a multi-cylinder explosive engine the combination of a base, a crank shaft journaled in said base, a plurality of cylinders in three lengthwise rows on said base, said cylinders being arranged in sets of three transversely of said crank shaft and radiating therefrom, the pistons of each transverse set of cylinders being connected with one crank pin on said shaft, and valves for admitting an explosive mixture to said cylinders respectively, said valves being so timed that the explosion in any given two cylinders whose pistons are connected with one crank pin have the explosion in a cylinder whose piston is connected with another crank pin interposed therebetween.

1,373,511. LIQUID-FUEL BURNER. ERIC B. KRAMER, Brooklyn, N. Y. Filed Oct. 15, 1918. Serial No. 258,138. 8 Claims. (Cl. 158—71.)



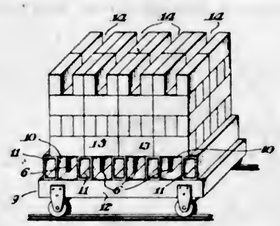
4. In a liquid fuel burner the combination of a cylindrical burner head in which the cylindrical wall is perforated for the exit of the gasified fuel, an inverted frustoconical upper wall transverse said head, a flat lower wall transverse said head, whereby an annular funnel shaped chamber is formed in said head, a fuel pan outstanding from the periphery of said lower wall for a portion of its circumference, and an arcuate generator detachably supported on said pan.

1,373,512. RETURN-ENVELOP. JOHN KUHHORN, New York, N. Y. Filed Nov. 29, 1919. Serial No. 341,474. 9 Claims. (Cl. 229—73.)



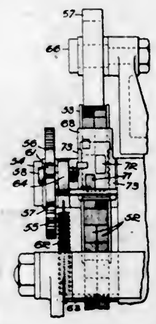
1. An envelop having initial and reserve closure flaps, the reserve flap being foldable on the exterior in open position against one side of the envelop, the initial closure flap being attachable to said side beyond the reserve flap, and means on the exterior of said side for receiving the reserve flap and retaining it in such position independent of the initial flap and protecting the reserve flap from being torn off when an envelop opener is inserted under the initial flap.

1,373,513. METHOD FOR HANDLING BRICKS. JAMES B. LADD, Ardmore, Pa. Filed Sept. 14, 1917. Serial No. 191,333. 1 Claim. (Cl. 294—63.)



The method of handling bricks which consists in forming stacked units with the top course arranged to form parallel channels, the channel forming bricks suitably spaced to form a support for a similar superimposed unit and at the same time to provide recesses for receiving lifting elements beneath said superimposed unit when resting upon said channel forming layer, and for permitting the withdrawal of said elements therefrom, and translating said stacked unit by inserting the lifting elements into said channels beneath the unit and moving same.

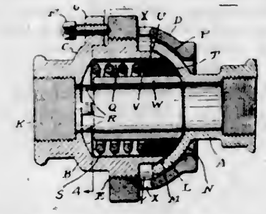
1,373,514. PATTERN OR COLOR INDICATING MECHANISM FOR CHENILLE OR OTHER MACHINES. CHARLES LEA, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a Corporation of New York. Original application filed Nov. 2, 1916, Serial No. 129,072. Divided and this application filed Oct. 23, 1919. Serial No. 332,781. 15 Claims. (Cl. 139—40.)



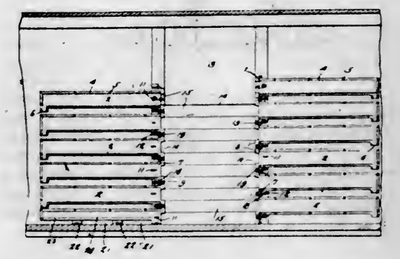
1. A textile organization employing warp threads, and transversely extending threads having distinguishing characteristics and interconnected therewith, said organization having means to introduce and to interconnect said threads, and indicating means for such characteristics including a surface having colors indicated thereon in a predetermined order, and coacting feeding means to feed said color indicating surface.

1,373,515. UNIVERSAL PIPE-JOINT. EVARTS G. LOOMIS, Newark, N. J. Filed Oct. 11, 1918. Serial No. 257,701. 5 Claims. (Cl. 285—95.)

5. A universal pipe joint comprising in combination a swinging, tubular, casing member having a flange with concentric inner and outer spherical surface portions, a main casing comprising a tubular recessed section and a holding section that surrounds the recessed section and that is engaged by the outer spherical surface portion of the flange, a packing located in the recess of the recessed section, a washer, and means for forcing the washer against the recessed section and against the inner spherical surface portion of the flange, there being in the holding section openings leading from the space which is defined by the outer edge of the flange, the recessed section and the holding section.

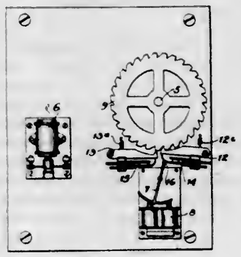


1,373,516. DOOR FOR BOX-CARS. GEORGE LAWSON MCCALLUM, Crosby, Pa. Filed Feb. 24, 1919. Serial No. 278,862. 4 Claims. (Cl. 20—22.)



1. A door of the class described, comprising a plurality of slidable members, shields or casings mounted at opposite sides of a door opening, those at one side being located in staggered relation to those at the opposite side, said shields being adapted to receive said slidable members, and coöperating means carried by said slidable members and shields for locking said members in door-opening position, the adjacent shields having flanges at their inner ends spaced apart to provide slots for receiving said coöperating means carried by the slidable members.

1,373,517. ELECTRIC CLOCK. PAUL MANSEL, Charlottenburg, near Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, Germany, a Corporation of Germany. Filed Apr. 4, 1918. Serial No. 226,792. 6 Claims. (Cl. 58—27.)

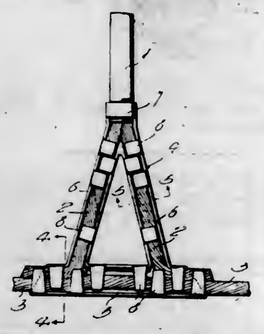


1. In a secondary clock, in combination, a minute hand arbor, an electromotor adapted to drive said arbor, a ratchet wheel on said arbor, pawls in engagement with said ratchet wheel, a main clock electric circuit, switch gear actuated by said main clock circuit, and two pairs of contact springs fixed to said pawls and coöperating with said wheel and said switch gear to open and close the motor circuit.

1,373,518. CASEIN GLUE. ADOLPH U. MESSMER, Minneapolis, Minn. Filed July 2, 1918. Serial No. 242,994. 3 Claims. (Cl. 87—17.)

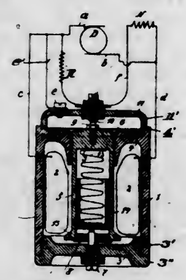
1. A glue composition comprising natural soured or lactic acid casein, anhydrous trisodium phosphate, calcium hydroxid, sodium chlorid, a resin and an oil.

1,373,519. LIGHTNING-ROD CONNECTOR. GEORGE MEYER, Vandyne, Wis. Filed Apr. 1, 1920. Serial No. 370,587. 2 Claims. (Cl. 173—31.)



1. A lightning rod connector comprising a body member, including a base section, from which diverging connected side sections extend, thus forming an open triangular frame, each of said sections being of channel formation in cross-section and provided with malleable tongues to be bent over the wires which are placed in them, and a screw-threaded attaching eye at the connecting point of the side sections.

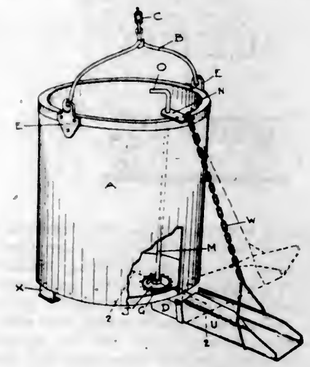
1,373,520. VOLTAGE-REGULATOR FOR ELECTRIC DYNAMOS. FRIEDRICH MÜNZ, Stuttgart, Germany. Filed May 4, 1920. Serial No. 378,913. 7 Claims. (Cl. 171—229.)



1. In a device of the class described, a cylindrical casing, a voltage coil within said casing, a hollow iron core of cylindrical form movable centrally within said coil and outward of one end of said casing, a diaphragm supporting said core in operative position, a stationary contact, a second contact in alinement with said stationary contact and movable with said core, a resistance connected between said stationary contact and said movable contact, adjustable means for tensioning said core against normal magnetic influence of said coil, and means within the hollow center of the iron core for damping the movements thereof.

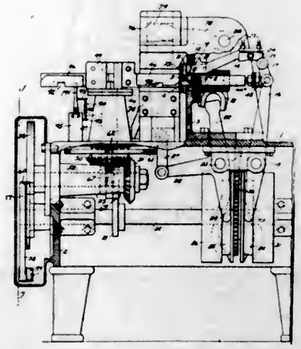
1,373,521. SWILL-DISTRIBUTER. ALBERT H. NELLER, Fairfield, Iowa, assignor to Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Nov. 28, 1919. Serial No. 341,190. 10 Claims. (Cl. 221—19.)

1. In swill distributers, a container, a spout connected to and entering the bottom of the container, a rotatable valve on the inner face of the spout, and a vertically disposed rod within the container having its lower end connected to the valve and its upper end extended to the upper edge of the container, whereby the valve may be opened and closed by rotating the rod from its upper end.



2. In swill distributers, a container, a spout connected to and entering the bottom of the container, a rotatable valve on the inner face of the spout, a vertically disposed rod within the container having its lower end connected to the valve and its upper end extended to the upper edge of the container, and a bracket attached to an upper portion of the container to support the rod and permit its rotation to open and close the valve.

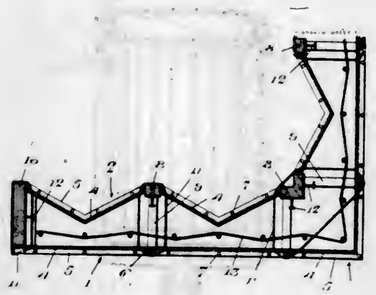
1,373,522. MACHINE FOR FORMING ARMATURE-COILS. FREDERICK C. NICKOL, Dayton, Ohio, assignor to City Machine & Tool Works, Dayton, Ohio, a Co-partnership consisting of Frederick C. Nickol and Oscar M. Poock. Filed Mar. 1, 1920. Serial No. 362,578. 31 Claims. (Cl. 153—6.)



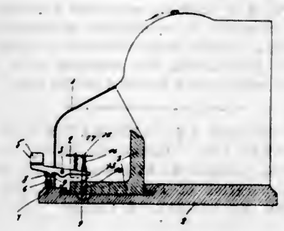
1. In a mechanism of the character described, bending devices, means to support a bar of metal in a position to be operated on by said bending devices, a plurality of bending dies arranged to be moved successively into a position adjacent to said bar supporting means and said bending devices, and means to intermittently actuate said bending dies and to cause said bending devices to operate during the intervals between the movements of said bending dies.

1,373,523. CONCRETE-BUILDING FORM. OLEY GLEN NICHOLAS, Sioux City, Iowa. Filed Oct. 15, 1919. Serial No. 330,892. 4 Claims. (Cl. 25—131.)

4. A concrete building form comprising sections at opposite sides, the sections at one side being V-shaped to form channels in one side of the finished product, and having their edges spaced apart, bars between said edges of said sections and having portions to be embedded in the concrete, stays between said bars and the sections at the other side, and wires threaded inwardly and outwardly through the opposite sections and passing around said bars to tie and clamp said section, bars and stays together.



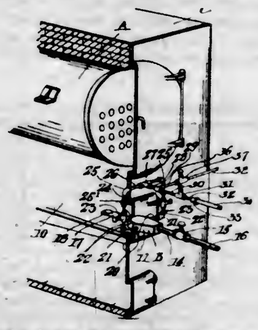
1,373,524. CARRIAGE-SHIFTING DEVICE FOR CALCULATORS. VALENTIN JAKOB ODHNER, Gottenborg, Sweden. Filed Aug. 14, 1919. Serial No. 317,542. 2 Claims. (Cl. 235—63.)



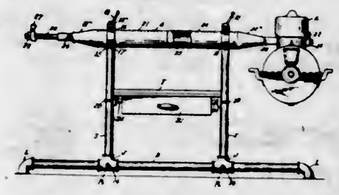
1. In a shifting device for the carriage in calculating machines the combination with a key provided on the carriage for the moving of the same in a certain direction, a locking part movable in the carriage, a stationary part of the machine, with which the said locking part cooperates, the said locking part being disengaged by the key, when depressed, of a stationary toothed bar or the like, extending along the path of the carriage and so located, that the key, when depressed, engages the bar and, as the carriage together with the key is moved, is positively raised by the said bar, so that the locking part is disengaged and thus capable of stopping the carriage in its new position and locking the same.

1,373,525. OIL-BURNER. WILLIAM FRANKLIN PAYNE, Stratford, Ontario, Canada. Filed Mar. 15, 1920. Serial No. 366,024. 1 Claim. (Cl. 158—74.)

A burner comprising a mixing chamber having a center conduit, a pair of diverging conduits extending from the center conduit through the lateral walls of the mixing chamber, a discharge nozzle connected to one end of the center conduit and provided with a constructed flat opening, an air pipe connected to the other end of the center conduit, pipes connected to the diverging conduits and extending above the mixing chamber and connected together, valves in the said pipes, a pipe extending from the said pipes between the said valves, a valve on the last said pipe, a pipe connected to the last said pipe intermediate of the first said pipe and the last said valve, and a valve on the last said pipe, as and for the purpose specified.

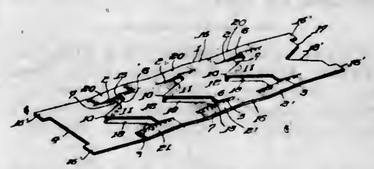


1,373,526. STAND FOR FORD ENGINES. CHARLES CALLOWAY PRICE and DOUGLASS VALENCIA BRIDWELL, Dumas, Ark. Filed Nov. 26, 1919. Serial No. 340,870. 7 Claims. (Cl. 29—89.)



1. A stand for supporting engines comprising, a frame, a beam comprising sections telescopically associated with each other, clamps carried by said frame and engaging certain of the sections for locking the same in adjusted positions, and adjustable brackets carried by the the clamp engaged sections.

1,373,527. DEVICE FOR ENHANCING THE RESILIENCY OF VEHICLE-SPRINGS. THOMAS J. PRIESTLEY, Jr., Philadelphia, Pa. Filed Feb. 1. 1921. Serial No. 441,540. 6 Claims. (Cl. 267—47.)

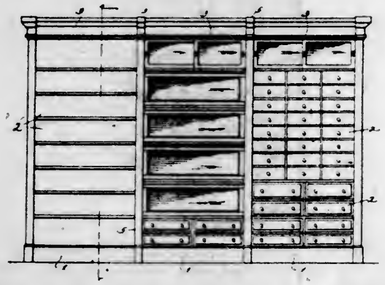


4. A device of the class described comprising an integral sheet metal plate, said plate being cut and slotted to define a plurality of sections arranged longitudinally of the plate and adapted to lie between the leaves of a spring, said, plate having marginal edges disposed on opposite sides of the sections and having portions connected to each of the respective sections and portions unconnected thereto, said last mentioned portions being disposed in angular relation to said connected portions.

1,373,528. SECTIONAL FURNITURE. WILLIAM E. ROBERTS, Portland, Oreg. Filed May 6, 1919. Serial No. 296,644. 6 Claims. (Cl. 45—78.)

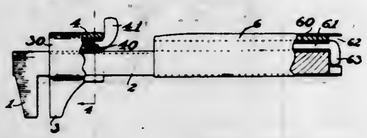
1. In sectional furniture of the character referred to, top and bottom sections for adjacent tiers of intermediate

sections, and intermediate sections one upon the other between the top and bottom sections, adjacent top and adjacent bottom sections resting against each other, end to end, and intermediate sections spaced apart to provide a space between the intermediate sections and between the top and bottom sections, and a pilaster over the joint



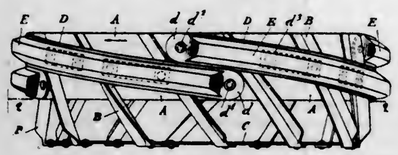
between adjacent tiers and having a shorter portion projecting between the ends of the intermediate sections and constituting fastening means in said space securing adjacent top sections together and securing adjacent bottom sections together, substantially as shown and described.

1,373,529. QUICK-ADJUSTING WRENCH. WILLIAM F. ROTERMUND, Seattle, Wash. Filed Mar. 30, 1920. Serial No. 369,998. 6 Claims. (Cl. 81—162.)



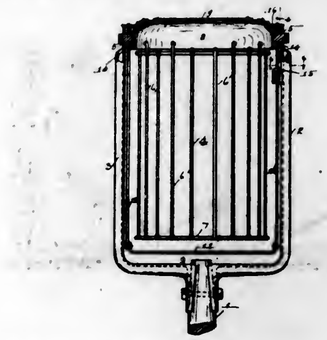
2. A wrench having a shank bar provided with a jaw at one end and its back edge provided with rack teeth, a complemental jaw formed by bending a plate about the shank and securing its ends, the back edge of the sleeve thus formed being threaded to match the teeth on the shank and a threaded bolt extending within said sleeve and engaging with the threads of both sleeve and shank and having one flattened side adapted when turned in proper position, to free the shank and permit sliding of the sleeve upon the shank.

1,373,530. DETACHABLE TIRE FOR TRACTOR-WHEELS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 397,953. 3 Claims. (Cl. 301—39.)



1. A detachable tire for tractor wheels provided with gripping devices, characterized by a series of elements consisting preferably of metal arcs on which are vulcanized rubber tires, and which form bridges over the gripping devices, and which are attached to the wheel rim at their ends that are bent over for this purpose, while they receive intermediate points of support on the said wheel rim by means of liners or attached intermediate projections.

1,373,531. FRUIT-PICKER. THEODORE C. SCHULTZE, Grand Rapids, Mich., assignor to Herman Lucas, Grand Rapids, Mich. Filed Jan. 10, 1920. Serial No. 350,596. 6 Claims. (Cl. 56—332.)



1. In a device of the character described; a support; a container having fruit-picking means, and comprising an open-bottom body member swingable on the support and a bottom member swingable with said body member and also relatively thereto.

1,373,532. METHOD OF FINISHING GLASS. LEE SHOWERS, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 10, 1915. Serial No. 7,441. 2 Claims. (Cl. 51—278.)

2. The method of finishing smoothed relatively opaque glass which consists in employing polishing members with a polishing powder approximating in color that of the glass and maintaining the members at a degree of drying such as will cause a burning of the glass.

1,373,533. PROCESS AND APPARATUS FOR SEVERING SHEET-GLASS. HARRY G. SLINGLUFF, Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Apr. 12, 1920. Serial No. 373,211. 6 Claims. (Cl. 219—29.)



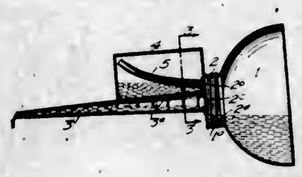
1. A process of severing a continuously formed sheet of glass which consists in applying a pair of electrically heated transversely extended members to the opposite sides of the sheet at the same time.

1,373,534. OIL-CAN. ALLEN SMITH, Jr., San Diego, Calif. Filed Jan. 12, 1920. Serial No. 350,918. 3 Claims. (Cl. 221—33.)



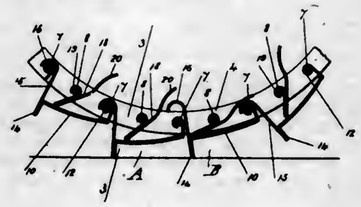
1. An oil can, including a body, a spout secured thereto and an oil receptacle secured on one side of said spout communicating with the interior of said spout.

1,373,535. OIL-CAN. ALLEN SMITH, Jr., San Diego, Calif. Filed Apr. 30, 1920. Serial No. 377,769. 4 Claims. (Cl. 221—33.)



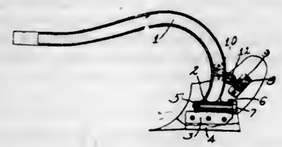
1. An oil can, including a body, a spout secured thereto, an auxiliary reservoir secured to one side of and communicating with said spout and a conducting tube extending into said auxiliary reservoir and communicating with said body.

1,373,536. TRACTION-WHEEL. FRANKLIN B. STORK, Rock Island, Ill. Filed May 19, 1920. Serial No. 382,588. 5 Claims. (Cl. 301—51.)



4. In a traction wheel, spaced side plates, pins extending between the side plates, traction plates pivoted at one end on alternate pins and provided at their free ends with outwardly projecting spurs, and lever devices having their middle parts pivoted on the intervening pins and engaging operatively with the traction plates next in front of them and next behind them, and operating to press the spurs outwardly one after another.

1,373,537. PLOW. HOWARD M. SWEET, Detroit, Mich. Filed Oct. 15, 1917. Serial No. 196,601. 4 Claims. (Cl. 97—21.)



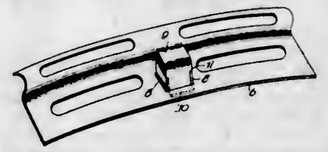
1. In a plow, a plow beam, a plow share, mold-board and land-side, the plow share and mold-board and land-side being secured in fixed relative position pivotedly supported to the beam to swing on a horizontal axis to vary the angle of the land-side relative to the vertical, the construction permitting the positioning of the base of the land-side on either side of a vertical plane for the purpose described, and an adjusting device for securing the unit in the desired position.

2. In a plow, a plow beam, the plow having a mold board and land side in fixed relative position and adjustable as a unit about a horizontal pivot, and means for adjusting the angle of the mold board and land side relative to the beam.

3. In a plow, a plow beam having an aperture at the rear end extending parallel with the beam, a frog adapted to receive the apertured end of the beam, a bolt securing the beam and frog in pivotal relation, the land side, mold board and plow share of the plow being fixedly attached to the frog, and a turn buckle secured to the beam and mold board adapted to hold the mold board, land side and share in adjustable relation with the beam.

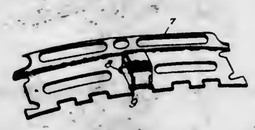
4. In a plow, a frog, a mold board and land side secured thereto in relative fixed relation, a beam, the frog being secured to the beam to swing on a horizontal axis, and an adjustable member for varying the angle of the mold board and land side relative to the vertical.

1,373,538. BRAKE-SHOE. JAMES S. THOMPSON, Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 17, 1919. Serial No. 345,530. 14 Claims. (Cl. 188—248.)



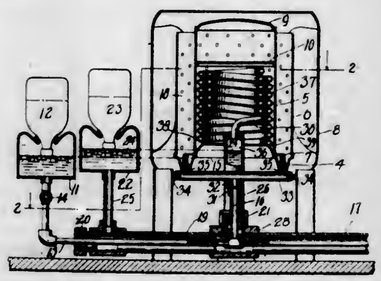
1. A brake shoe having a reinforcing back and a fastening lug with open ends extending transversely of the back, parts of the back being arranged at the open ends of the lug and extending across said open ends to engage a brake head and reduce the wear on the brake head by preventing the ends of the lug from engaging with the brake head.

1,373,539. BRAKE-SHOE. JAMES S. THOMPSON, Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 17, 1919. Serial No. 345,531. 10 Claims. (Cl. 188—248.)



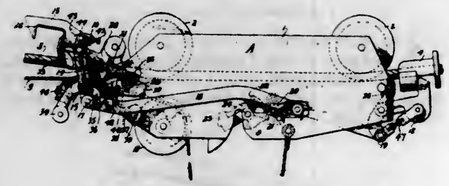
1. A brake shoe having a reinforcing back and a fastening lug, and a support separate from the back and the lug and interposed therebetween and forming brond bearing surfaces at the open ends of the lug to engage the brake head and reduce the wear of the lug on the brake head.

1,373,540. OIL-STOVE. GARRY P. VAN WYE, New York, N. Y. Filed Jan. 30, 1920. Serial No. 355,097. 7 Claims. (Cl. 158—95.)



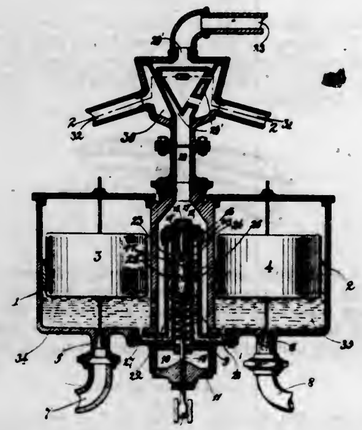
1. In an oil stove having a generating device, an oil duct leading to said generating device, and a water jacket forming a boiler surrounding a part of said duct, for the purpose set forth.

1,373,541. CABLEWAY-CARRIAGE MECHANISM. WILLIAM MAYO VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed June 8, 1920. Serial No. 387,323. 6 Claims. (Cl. 212—98.)



1. A cableway carriage mechanism comprising in combination, a stop on the cable, a latch on the carriage adapted to engage and to be disengaged from said stop, means operating the latch, and movable means adapted to contact with the stop to actuate said latch operating means.

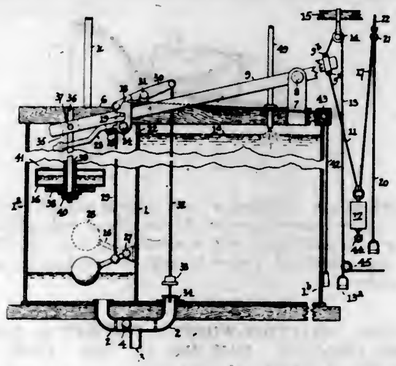
1,373,542. CARBURETER. PHILIP VIVIANO, St. Louis, Mo. Filed Feb. 8, 1918. Serial No. 216,127. 4 Claims. (Cl. 261—18.)



1. A carbureter comprising a plurality of supply tanks, a valve casing having spaced ports communicating with the said tanks, said valve casing being also provided beyond the ports with a discharge outlet, and a combined rotary and reciprocating valve operating within the valve casing and through its reciprocation controlling the discharge outlet, whereby the volume of flow is regulated, said valve being provided with a beveled face adapted to be carried to and from the said ports by the rotary movement of the valve for controlling the said ports.

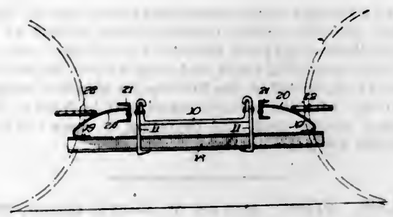
1,373,543. WINDMILL-CONTROL MECHANISM FOR TANK-SUPPLY. JOHANN EDUARD WALTROWICZ, Gerang, Victoria, Australia. Filed Nov. 3, 1919. Serial No. 335,277. 8 Claims. (Cl. 103—86.)

1. The combination with a bulk tank, a float tank, a tubular connection between the tanks having a discharge opening, and a valve in said connection controlling the communication between the two tanks and the said opening, as described, of a float in the float tank and connections between said float and a wind wheel tail op-



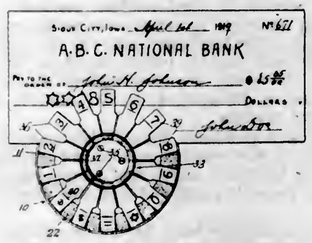
erating to stop or start the wind wheel according to the water level in the float tank.

1,373,544. SAFETY-GUARD AND LEVELING DEVICE. LOREN L. WHITNEY, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Original application filed Feb. 13, 1918, Serial No. 217,008. Divided and this application filed Aug. 28, 1920. Serial No. 406,633. 4 Claims. (Cl. 188—210.)



1. In a railway car truck, the combination of a brake beam having compression and tension members, a safety bar underlying same, and a member connected to the compression member slidably engaging the safety bar and upon which the tension member rests.

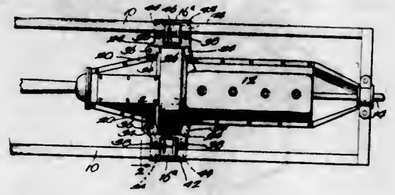
1,373,545. POCKET CHECK-PROTECTOR. FLOYD A. WIEGMAN, Sioux City, Iowa. Filed Oct. 13, 1919. Serial No. 330,380. 9 Claims. (Cl. 101—20.)



1. A pocket check protector comprising a circular base plate, impression platens, arcuately spaced on said base plate, segmental inking devices on said base plate between said platens, an impression plate rotatively mounted with

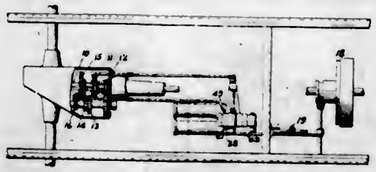
respect to the base plate, said impression plate including a plurality of radial resilient arms, each carrying an impression member adapted to engage with an associated impression platen or an associated inking device, and means for limiting the rotative movement of the impression plate on said base plate so that said impression member will register either with the platens or with the inking devices.

1,373,546. ENGINE-SUPPORT CLAMP. GOTTLIEB F. ZUCKER, Chicago, Ill. Filed Dec. 20, 1919. Serial No. 346,424. 5 Claims. (Cl. 180—64.)



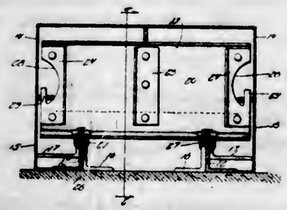
1. In combination with an automobile or engine frame member, an engine adjacent thereto, and a normal supporting device from the engine to the frame, a clamping element comprising coöperating members extending between the engine and frame and each embracing the normal supporting device, and means for drawing said members together.

1,373,547. CHANGE-SPEED GEARING. FRANK BEEMER, Philadelphia, Pa., assignor to Vulcan Motor Devices Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1913. Serial No. 793,993. 4 Claims. (Cl. 74—58.)



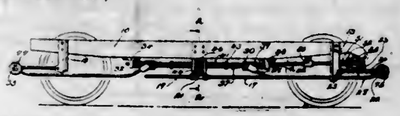
1. The combination with a shaft and variable speed transmission mechanism therefor, including a plurality of sets of power transmission elements, of means for placing each set of said transmission elements in and out of driving relation with the shaft at selected times, and mechanism by which each set of transmission elements may be selected for subsequent operation while one set of transmission elements is in operation.

1,373,548. COLLAPSIBLE FORM FOR CONCRETE CONSTRUCTIONS. HARRY E. BILGER, Monmouth, Ill. Filed Apr. 12, 1920. Serial No. 373,144. 15 Claims. (Cl. 25—131.5.)



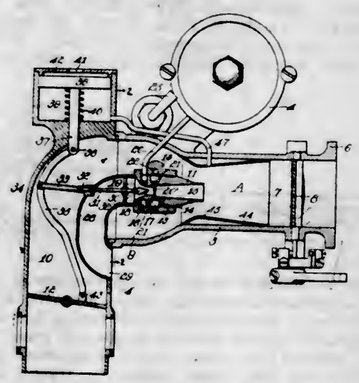
4. In a form of the class described, the combination with a plurality of form centers, base members whereon said form centers rest, said base members when moved independently of the form centers adapted to permit the form centers to drop to positions lower than the positions normally occupied thereby, hooks at the lateral edges of the form centers, and side cover plates provided with flanges apertured to receive said hooks, said side cover plates arranged to hold the form centers stationary when the base members are moved as aforesaid, said hooks arranged to disengage the said cover plates when the form centers drop.

1,373,549. AUTOMATIC JACK FOR VEHICLES. CARL F. BRINKMAN and ADOLPH BRINKMAN, Milwaukee, Wis. Filed Dec. 6, 1920. Serial No. 428,778. 8 Claims. (Cl. 180—83.)



8. In combination with the chassis and wheels of a motor vehicle, brackets depending from one end of the chassis, arms pivotally mounted in said brackets, a bumper carried on the ends of said arms, said arms being of such length that the wheels will be raised from the ground when the arms and bumper are swung underneath their pivot, a latch for holding said bumper outwardly beyond the end of said vehicle, means for stopping said bumper above the ground when said latch is released, means for subsequently moving said bumper underneath said pivot to raise the wheels from the ground, said last named means being operable manually or from the motor as desired.

1,373,550. CARBURETER. MILFORD G. CHANDLER, Chicago, Ill., assignor, by mesne assignments, to Lynn A. Williams, Evanston, Ill., and Curtis B. Camp, Chicago, Ill., trustees. Filed May 12, 1917. Serial No. 168,325. 8 Claims. (Cl. 261—72.)



1. In a carbureter, a primary venturi, a constant level float controlled fuel chamber, a low level source of fuel supply, a conduit directly connecting the low level source and the fuel chamber, a passage connecting the lower part of the fuel chamber and the throat of said venturi, a second passage from a point near the throat of said venturi but anterior to the fuel delivery opening therein to the upper space of the fuel chamber for maintaining a vacuum in the upper part of the fuel chamber, a movable regulating device for regulating the velocity of air past the said vacuum maintaining opening in said venturi for regulating the suction at said opening, and means for automatically moving said regulating device to different positions dependent upon the quantity of air drawn into the carbureter.

3. A carbureter comprising an induction passage, a fuel chamber, a fuel inlet in said induction passage, a conduit communicating with and extending between the induction passage and the upper spaces of the fuel chamber, means for changing the flow of air through the induction passage at both the fuel inlet and the point of communication of said conduit with said induction passage, and further automatic means for maintaining the velocity of air past the point of communication of said conduit with the induction passage substantially constant.

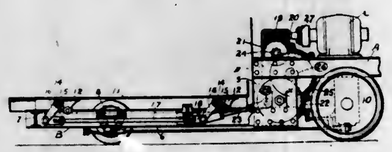
8. A carbureter comprising a fuel chamber and mixing chamber, an air passage communicating with said mixing chamber, a fuel duct leading from said fuel chamber and discharging into said air passage, a second duct leading from the upper spaces of said fuel chamber and discharging into said air passage, and automatic means for varying the velocity of flow of air past the discharge end of said fuel duct without materially changing the velocity of flow of air past the discharge end of said second duct.

1,373,551. PROCESS OF MANUFACTURING GLANDULAR EXTRACTIVE PRODUCT. ALPHONSO MORTON CLOVER, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 3, 1913. Serial No. 751,957. 5 Claims. (Cl. 167—7.)

1. The process of obtaining the active principle of the infundibular lobe of the pituitary gland in the form of a solid which consists in making a water extract of said lobe, and precipitating the active material therefrom by saturating it with a freely soluble, non-toxic, alkaline metal salt having a neutral or slightly acid reaction.

5. The process of obtaining the active principle of the infundibular lobe of the pituitary gland in the form of a solid which consists in making a water extract of the gland with hot acidulated water, removing the insoluble residue, and precipitating the active material from the remaining solution by saturating it with sodium chlorid.

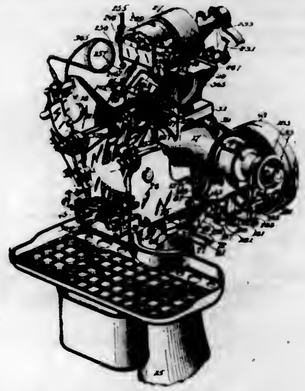
1,373,552. ELEVATING MECHANISM FOR SHOE-TRUCKS. WALTER C. DYER, Chicago, Ill., assignor to Buda Company, a Corporation of Illinois. Filed Feb. 21, 1918. Serial No. 218,454. 3 Claims. (Cl. 254—10.)



1. In an elevator truck, the combination of a truck body comprising spaced side frame members, a liftable load receiving platform, means for raising and lowering the platform, gearing mounted on one side frame member at the forward end of the truck, a crank device mounted on the other side frame member, a transverse shaft geared at the ends to said gearing and said crank device, a connecting rod for operating the said means for raising and lowering the platform connected to the crank device between the same and the said gearing, and a motor for driving said gearing, said motor being mounted on the top of the frame.

1,373,553. MACHINE FOR OPERATING ON SHOE-BOTTOMS. EDWARD ERICKSON, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 4, 1917. Serial No. 172,658. 46 Claims. (Cl. 12—67.)

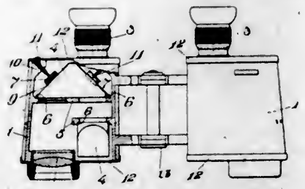
1. A machine for operating on welted, unsoled shoes, having, in combination, connected welt butting and upper tacking mechanisms, and a single actuator connected to the welt butting mechanism for operating both of said mechanisms, one from the other.



12. A welt butting machine, having, in combination, a cutter slide, a cutter carrier having a cutter, and a link connection between said parts constructed and arranged to permit the carrier to rock on the slide.

20. A welt butting machine, having, in combination, a cutter carrier, a welt butting cutter sustained thereby, and a combined welt presser and tack puller sustained on the carrier in advance of the cutter.

1,373,554. PRISMATIC BINOCULAR. MITSUZO FUJII, Mita, Shiba-ku, Tokyo, Japan. Filed Jan. 16, 1917. Serial No. 142,672. 3 Claims. (Cl. 88—33.)



1. The combination in an optical instrument, a seat, a prism arranged on the seat and having two angularly-arranged faces and parallel sides, a separate independent curved resilient plate for each of the angularly-arranged faces extending transversely across and out of contact with each of the angularly-arranged faces, the ends of each of said plates extending at angles to the body of the plate and engaging the parallel sides only of said prism, and adjusting means engaging the central portions of said plates for shifting and holding said prism on its seat.

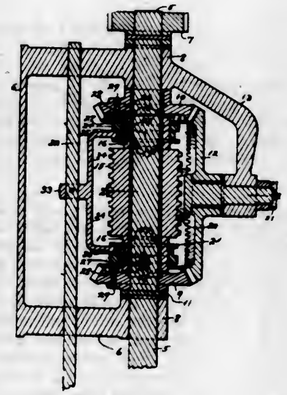
1,373,555. PLIERS. EDWARD M. GRAHAM, Chicago, Ill. Filed Aug. 8, 1919. Serial No. 316,010. 4 Claims. (Cl. 7—3.)



1. In pliers, the combination of a pair of pivotally connected members each having a gripping jaw, a handle and a recess extending in the plane of one of its outer side faces, substantially flat cutter blades removably secured

and disposed in said recesses, the edges of said recesses and blades being conformably and outwardly convergent so that the edges of the recesses will act as shoulders to resist the outward stresses upon the blades and being formed to permit the blades to be removed transversely from or placed transversely into the recesses while the members are in connected relation, and means for removably securing the blades in the recesses.

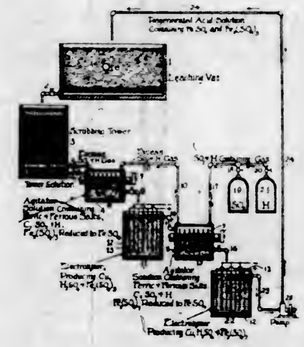
1,373,556. POWER-TRANSMITTING MECHANISM. LEE B. GREEN, Cleveland, Ohio, assignor to The Federal Machine Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 31, 1920. Serial No. 355,518. 6 Claims. (Cl. 74—59.)



1. The combination, with a shaft, and a worm loose on said shaft and employable in transmitting motion from said shaft, of two bevel-gears which are mounted on said shaft adjacent opposite ends respectively of the worm and face each other and are the one operatively connected with and the other loose on the shaft, an intermediate bevel-gear meshing with the first-mentioned gears, and two clutches adjacent opposite ends respectively of the worm and each controlling operative connection between the worm and the adjacet gear of said first-mentioned gears, each clutch comprising a member carried by the adjacent gear of said first-mentioned gears and a member which is supported from the worm and shiftable independently of the worm longitudinally of the aforesaid shaft and in its mid position is out of operative relation to the associated clutch-member, the clutch-members carried by the worm being adapted to be in their mid position simultaneously and shiftable in either direction from said position, and the relative arrangement of the parts being such that only the one or the other of the last-mentioned clutch-members is rendered operative according as they are shifted from their mid position simultaneously in the one or the other direction longitudinally of the aforesaid shaft.

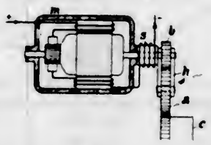
1,373,557. ELECTROLYTIC PROCESS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Mar. 22, 1920. Serial No. 367,962. 14 Claims. (Cl. 204—15.)

1. An electrolytic process which consists in treating ores of copper with an acid solution to dissolve the copper, electrolyzing the resulting copper solution containing salts of the variable valent elements to deposit the copper, applying sulfur dioxid as a reducing agent to the electrolyte through the intermediary of finely divided charcoal to reduce the variable valent salts from a higher to a



lower valency, and agitating the electrolyte in the presence of the charcoal and the sulfur dioxid.

1,373,558. APPARATUS FOR STARTING MOTORS, MORE PARTICULARLY HEAT-MOTORS. HEINRICH GÜTTINGER, Baden, Switzerland, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Filed Apr. 9, 1917. Serial No. 160,675. 3 Claims. (Cl. 290—38.)



1. An apparatus for starting an engine, comprising in combination an electric starting motor, a toothed wheel on the engine shaft, a toothed pinion rotated by said motor, an intermediate toothed wheel in mesh with said pinion, means supporting said intermediate wheel for swinging movements about the axis of the pinion to carry said wheel into and out of engagement with the first mentioned wheel, and means for magnetizing said intermediate wheel to a degree sufficient to convert it into an electromagnet armature attracted toward said first-mentioned wheel and into driving engagement therewith.

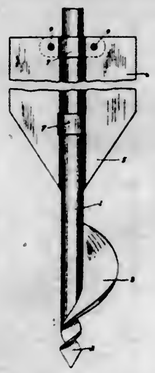
1,373,559. PLATEN-RENEWER. JAMES T. HACKING, Pawtucket, R. I. Filed Oct. 5, 1920. Serial No. 414,918. 4 Claims. (Cl. 134—1.)

1. A preparation for restoring the surface of a platen, which consists of a mixture of alcohol and resin oil.

1,373,560. FENCEPOST. WILLIAM A. HOLLAND, London, Ohio. Filed June 22, 1917. Serial No. 176,265. 2 Claims. (Cl. 189—30.)

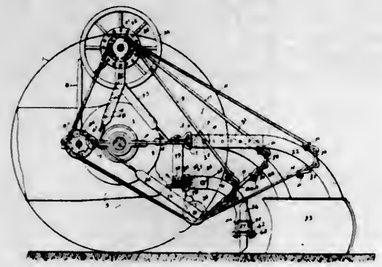
1. In a fence post adapted to be driven into the ground, a stabilizer slidably mounted thereon comprising a plate

having its center portion concaved to present a longitudinal post engaging groove, and a supplemental clamp



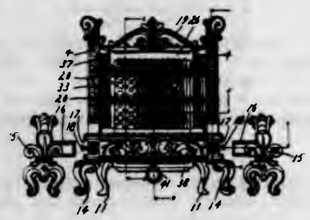
structure in coöperation with said groove to complete the attachment of the stabilizer to the post.

1,373,561. SCARIFYING AND GRADING DEVICE FOR TRACTORS. CHARLES W. HOWE, Dayton, and JOSEPH L. GARVER, Hamilton, Ohio. Filed Oct. 21, 1919. Serial No. 332,288. 8 Claims. (Cl. 37—7.)



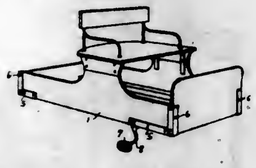
1. In a device of the type described, the combination with a tractor, of a scraper, means for hingedly securing the scraper to the tractor, a pair of winding devices, a cable on each winding device whose free ends are connected to a respective side of the scraper, and means convenient for operation by the driver, for turning each winding device independently of the other, to raise one or both sides of the scraper or draw one or both sides of the latter into the ground.

1,373,562. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Filed Oct. 16, 1917. Serial No. 196,861. 12 Claims. (Cl. 126—127.)



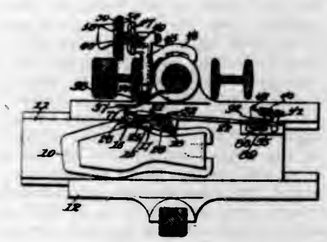
1. In a gas stove, the combination of rear and side walls, corner uprights secured to the front edges of the side walls, a front bar secured to the lower ends of said uprights, a supporting plate having burner openings therein disposed within and mounted on said walls and uprights, radiating elements mounted on said plate above said burner openings, a fireback mounted on said plate at the rear of said radiating elements, said plate being provided with retaining and positioning members for said radiating elements and fireback, a top bar disposed on said walls and secured thereto and to said corner uprights to engage the top of said fireback and having lugs projecting downwardly at the front thereof, and a burner supported within said walls below said plate and provided with burner tips alined with said burner openings.

1,373,563. COMBINED BRACE AND ANGLE-BAR FOR VEHICLE-BODIES. ROBERT L. KILPATRICK, Hempstead, Tex. Filed Mar. 10, 1920. Serial No. 364,800. 1 Claim. (Cl. 296—30.)



The combination with a vehicle body of a brace secured to each corner thereof, each brace being formed of angle iron having a rectangular piece of metal cut therefrom the same width as the width of that side of the metal and then bent at right angles so as to close said cut-out portion, one of the flanges of said angle iron fitting under the bottom and against the end of the body at each corner, said flange extending back beyond the step brace and the other flange of each brace fitting against the adjacent side of said body and securing bolts passing through said brace and body for securing said brace to said body and making same rigid.

1,373,564. MACHINE FOR OPERATING UPON SHOE-SOLES. RALPH F. KNIGHT, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 30, 1917. Serial No. 204,637. 12 Claims. (Cl. 12—21.)

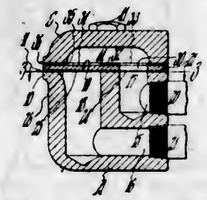


1. A sole molding machine comprising a sole supporting mold and a gage having three separated points of contact adapted to simultaneously contact with the curved contour of the sole edge at one side and locate the sole both laterally and longitudinally in a predetermined position.

1,373,565. ATOMIZING-BURNER. HANNIBAL ALEXANDER KUNITZ, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 8, 1920. Serial No. 350,153. 5 Claims. (Cl. 158—75.)

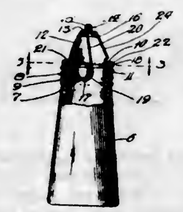
1. In a burner having a body portion provided with inlets for fuel and an atomising fluid formed therein and

lying in a single plane, a cap provided with a recess the longitudinal axis of which is located in the same plane as the plane of the inlet passages, a spacing plate between the body and cap, nozzle-plates of similar construction located upon opposite sides of said spacing plate and each provided with a recess formed in one edge thereof and extending inwardly into communication with one of said inlet passages and said recess in the cap, respectively,



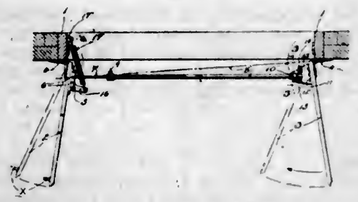
said nozzle-plates and spacing plate each being provided with openings formed therein in communication with the opposite end of said recess in the cap plate from that with which the recess in the edge of one of said nozzle-plates communicates whereby the recess in the cap plate may be in constant communication with one of said inlet passages, and means for securing the body and cap together with said plates clamped therebetween.

1,373,566. COMBINED DISPENSING-RECEPTACLE AND SPREADER. PETER NEUKIRCHEN, Chicago, Ill., assignor to Columbia Fastener Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1919. Serial No. 286,140. 5 Claims. (Cl. 91—67.4.)



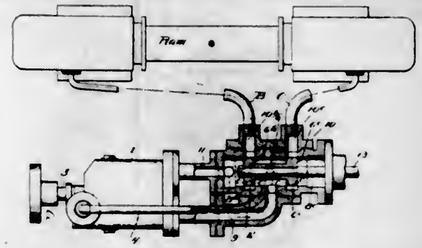
1. As a new article of manufacture, a container and a cap therefor, having a centrally apertured end portion, and an annular groove, a valve having a tip protruding from the container, and a flaring skirt, for closing the aperture, and a spring support for seating said valve around the aperture, said support having an annular base portion seated in said groove and held there by its own elasticity.

1,373,567. DOUBLE-DOOR-ACTUATING DEVICE. OLE P. OVERLIEN, Black River Falls, Wis. Filed Mar. 6, 1920. Serial No. 363,875. 2 Claims. (Cl. 268—9.)



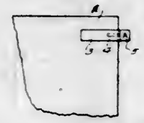
1. The combination of oppositely swinging hinged doors, brackets for the doors secured to the same near their hinges, a closing spring for one door, a link having a pivotal connection to the bracket of said door and also to the bracket of the other, the link being of such length that the latter pivotal connection crosses the dead center line passing through the adjacent hinge and the other pivotal connection when the doors are opened or closed.

1,373,568. HYDRAULIC POWER TRANSMISSION. CECIL E. PAINE, Bath, Me. Filed June 14, 1920. Serial No. 388,930. 5 Claims. (Cl. 138—23.)



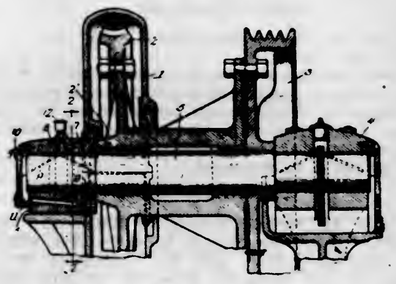
1. In combination, a driven motor, a continuously operable variable stroke pump for supplying motive fluid to operate said motor, a reversing valve for reversing the flow of fluid between the pump and motor, and means for by-passing the liquid around said reversing valve when the latter is in neutral position.

1,373,569. MARKER. GROVER PERRY, Chicago, Ill. Filed Aug. 1, 1919. Serial No. 314,656. 4 Claims. (Cl. 40—23.)



1. An index for a page of a book comprising a strip of material folded to form an interior approximately U-shaped body and bent backwardly and outwardly to form exterior substantially parallel side members extending beyond the U-shaped body one of the side members being provided with an approximately L-shaped extension forming an outer U-shaped portion and overlapping the other side member.

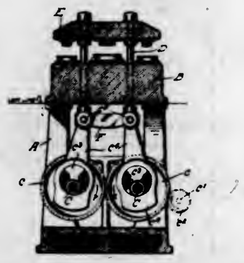
1,373,570. SELF-OILING BEARING FOR ELEVATOR-MACHINES. JACOB D. SCHAKEL, Chicago, Ill., assignor to Elevator Company of America, Chicago, Ill. Filed Dec. 12, 1918. Serial No. 266,411. 9 Claims. (Cl. 64—24.)



1. A machine of the character described comprising a gear wheel having a hub, an oil housing therefor, a shaft

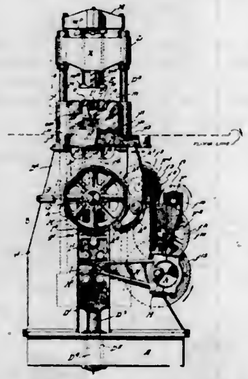
and bearing for the gear, and an oil duct leading from the bearing to a point above the gear hub and in line with the outer circumferential surface thereof so as to act as an oil conductor from the surface of the gear hub to the bearing.

1,373,571. DRAWING-PRESS. GEORGE M. SMITH, Canton, Ohio, assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed May 24, 1920. Serial No. 383,964. 8 Claims. (Cl. 113—38.)



1. In a drawing press, a bed and a reciprocating head upon which the complemental die members of the press are mounted in a plurality of sets, actuating means for imparting a parallel motion to said members with respect to each other, and straining rods dividing the area of the bed and head into spaces for the reception of the die members of each set.

1,373,572. DRAWING-PRESS. REUBEN STANLEY SMITH, BIRGER T. ANDREN, and HENRY MILLER, Milwaukee, Wis.; said Andren and said Miller assignors of their whole right to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 7, 1920. Serial No. 356,985. 39 Claims. (Cl. 113—38.)

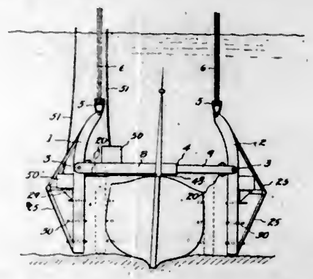


1. In a drawing press, a reciprocating punch, a relatively stationary matrix with which the punch coöperates, continuously rotating shaft for actuating the punch through one portion of its movement, and an intermittingly rotating shaft for actuating the punch through the other portion of its movement.

1,373,573. METHOD OF TREATING STEEL AND IRON PARTS. JAMES SORENSON, Clintonville, Wis., assignor to Four Wheel Drive Auto Co., Clintonville, Wis., a Corporation of Wisconsin. Filed Dec. 30, 1919. Serial No. 348,471. 7 Claims. (Cl. 75—198.)

1. The method of treating scale bearing iron and steel parts for the removal of scale, consisting in subjecting the metal surfaces to the action of an acid and raising their temperature to the scaling point while acid is in contact with the material.

1,373,574. SHIP-RAISING APPARATUS. JESS SWANEY, Seattle, Wash. Filed May 4, 1920. Serial No. 378,749. 6 Claims. (Cl. 114—51.)



1. A ship raising device of the character described, comprising a telescoping cross beam, vertically disposed lifting arms pivotally fixed intermediate their ends to opposite ends of said beam, means for adjusting the beam sections to move the lifting arms toward or from each other, and means at the upper ends of said arms for attachment to hoisting cables, for the purpose set forth.

1,373,575. SAFETY-HANGER FOR BRAKE-RODS. JOHN J. TATUM, Baltimore, Md. Filed Feb. 14, 1918. Serial No. 217,127. 5 Claims. (Cl. 188—205.)



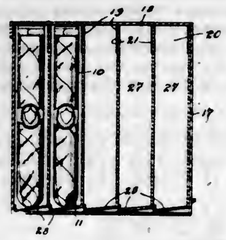
1. A safety hanger for brake rigging secured to a part of a truck, and having a bearing near its lower end for the brake rod, to embrace the lower brake rod and hold it therein against accidental displacement under service conditions.

1,373,576. ELECTRIC INSULATOR. PERCY H. THOMAS, Upper Montclair, N. J. Original application filed May 16, 1913, Serial No. 767,995. Divided and this application filed Dec. 17, 1917. Serial No. 207,452. 6 Claims. (Cl. 173—318.)



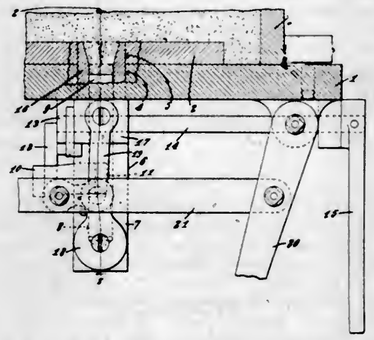
1. A line insulator including an external attachment and an insulating member of vitreous material having three portions, a central portion subjected to the tension load carried by the insulator and insulating the metal parts of one end of the insulator from the metal parts on the other, and two end portions each provided with means for receiving and distributing the tension stress from the external attachment, said means consisting of a group of metallic rods inserted in and secured to each end portion, said groups of rods being symmetrically arranged around a circle thus submitting the full cross section of the insulating member to a substantially uniformly distributed mechanical tension stress, together with means for distributing the external mechanical load among the rods of each group.

1,373,577. CIGAR-PACKAGE. EUGENE VALLENS, New York, N. Y. Filed Aug. 21, 1919. Serial No. 319,013. 2 Claims. (Cl. 206—41.)



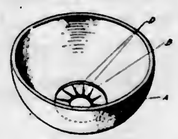
1. In a tobacco package a receptacle, partition elements therein to form a multiplicity of compartments, one series of the partition elements including tongue parts between the other series, the tongues being inclined at their inner parts from a line spaced from the bottom of the receptacle and extended to rest upon the bottom of the receptacle in abutment with the next adjacent opposite side of the compartment.

1,373,578. CORE-FORMING DEVICE. RAYMOND PRESCOTT VIAR, Lynchburg, Va., assignor of one-half to Charles W. McWane, Lynchburg, Va. Filed July 23, 1919. Serial No. 312,700. 6 Claims. (Cl. 22—10.)



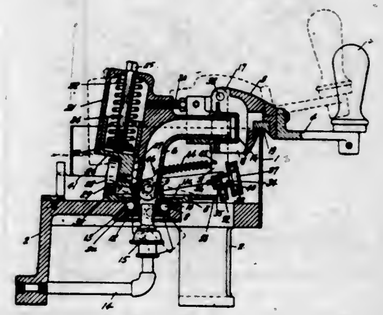
1. In a core forming device the combination with a structure for supporting a flask and a pattern, of a sleeve member slidably mounted in the pattern and its supporting structure and constituting a core pattern, and means for withdrawing said sleeve member from the pattern and away from the formed core therein, prior to the removal of the mold from the pattern.

1,373,579. ARTIFICIAL EYE. WILLIAM WENDTLAND, New York, N. Y. Filed June 22, 1920. Serial No. 390,847. 8 Claims. (Cl. 46—40.)



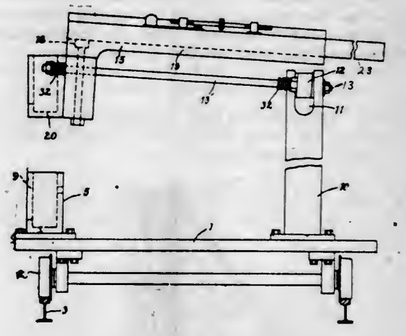
1. An artificial eye embodying a shell corresponding to the eyeball and provided with an interior depression corresponding to the iris, the base of which depression is recessed in the pupil portion thereof, and is further provided with grooves radiating from the recess therein, and coloring matter positioned in said recess, in the grooves and covering the base of the depression.

1,373,580. COLLAR-IRONING MACHINE. ROSS P. WRIGHT, Erie, Pa., assignor to Reed Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 21, 1917. Serial No. 176,084. 21 Claims. (Cl. 68—9.)



3. In a collar ironing machine, the combination of the ironing members, a former and an iron; means for moving one of the members into and out of engagement with the other and for moving one of the members along the other; means for separating the members by moving one of the members in a direction along the edge of the former; and mechanism for automatically throwing said last-mentioned means into and out of operative position as the members are moved relatively to each other.

1,373,581. TAPPING AND RAVELING APPARATUS FOR STEEL-FURNACES AND THE LIKE. EARL H. WURST, Elyria, Ohio. Filed June 23, 1919. Serial No. 306,017. 7 Claims. (Cl. 266—42.)

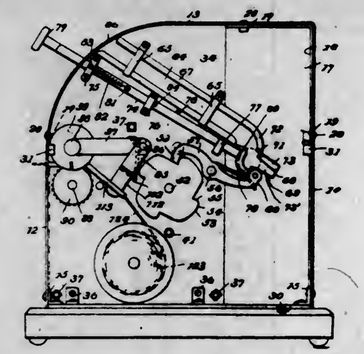


1. In apparatus of the class described, a reciprocating carriage, a support therefor, a clamp on said carriage adapted to receive a tapping rod and means for attaching a furnace peel to reciprocate said carriage.

1,373,582. VENDING-MACHINE. EUGENE BABER ADAMS, Ironton, Ohio. Filed Oct. 10, 1918. Serial No. 257,625. 3 Claims. (Cl. 194—57.)

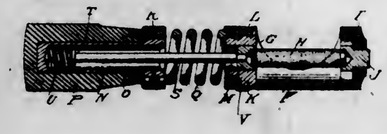
1. A vending machine including dispensing mechanism, and actuating mechanism for said dispensing mechanism, said actuating mechanism including a driven escapement wheel, a coin chute above the escapement wheel and deflected beyond the same to form a coin pocket and having an open-bottom restricted throat beyond said pocket, a latch having one end normally restraining the escape-

ment wheel and its other end normaly blocking the throat, and means adapted to force a coin from the coin pocket



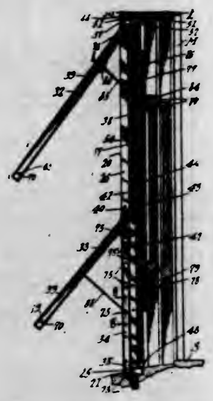
across the end of the latch in the throat whereby the latch will be released from the escapement wheel and the coin discharged through the bottom of the throat.

1,373,583. CIGAR-LIGHTING DEVICE. FRANK A. ADAMS, Rochester, N. Y., assignor to Shur Products, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 20, 1919. Serial No. 318,800. 9 Claims. (Cl. 219—32.)



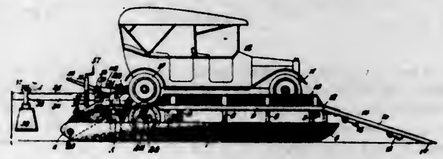
1. The combination with an electrical heating unit, of a handle portion independent of the heating unit, and a coil separate and independent from the handle portion and connecting the handle portion and said unit.

1,373,584. SHUTTER-FRAME. JOSEPH M. ARMSTRONG, Alexandria, Va. Filed Nov. 1, 1919. Serial No. 335,200. 10 Claims. (Cl. 20—59.)



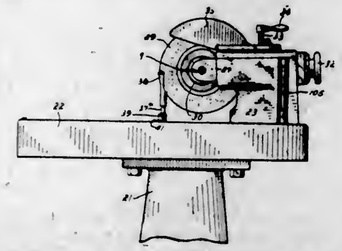
1. A device of the class described including a frame, a stationary guide member carried by the frame, a movable guide member pivoted to the frame and coöperating with the stationary guide member to form a continuous guideway, a shutter mounted to slide along the said guideway, means for locking the shutter in selected positions along the guideway and for locking the shutter to the pivoted guide member to permit the pivoted guide member and shutter to move independently of the stationary guide member, means for moving the pivoted guide member and shutter about the pivot of the pivoted guide member, and means for locking the pivoted guide member in selected positions in its path of movement about its pivot.

1,373,585. AUTO-JACK AND POWER-PLANT. DAVID B. BAKER, Hoquiam, Wash. Filed Apr. 24, 1919. Serial No. 292,518. 15 Claims. (Cl. 74—106.)



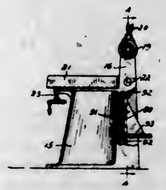
12. A structure for the purpose described, comprising a support, a power shaft and rollers thereon, with the rollers in position to be engaged by the drive wheels of an automobile when on the support, levers mounted on the support and each provided with jaws for engaging the rear axle of the automobile, one of the jaws being fixable on the lever, and means for moving the other jaw toward the first jaw to grip the axle between them, said means comprising a slide on each lever connected to the movable jaw, and rack and pinion adjusting means for the slide.

1,373,586. MACHINE FOR GRINDING FORMED CUTTERS. WILLIAM O. BARNES, Leominster, Mass. Filed Oct. 25, 1919. Serial No. 333,161. 16 Claims. (Cl. 51—100.)



1. A machine for grinding irregular profiles comprising a table, an upright support fixed thereon, a transverse slide carried by said support and provided with a pair of forwardly projecting arms, a screw for adjusting said slide in said support, a shaft carried by said arms, and a grinding wheel rotatably mounted on said shaft between said arms.

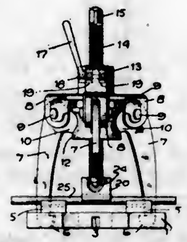
1,373,587. MACHINE FOR GRINDING FORMED CUTTERS. WILLIAM O. BARNES, Leominster, Mass. Filed Oct. 25, 1919. Serial No. 333,162. 16 Claims. (Cl. 51—100.)



1. A machine of the character described comprising a table, means for supporting the work above said table,

a templet in fixed relation to said table, a portable grinder, and a guide pin in fixed relation to and movable with said grinder, said grinder being movable over the surface of said table with said guide pin in engagement with said templet, and said portable grinder and guide pin being in vertical alinement, whereby said work is ground to the shape of the templet.

1,373,588. ARBOR-PRESS. CHARLES P. BEACH, Littleton, N. H. Filed Feb. 24, 1919. Serial No. 278,813. 3 Claims. (Cl. 153—38.)

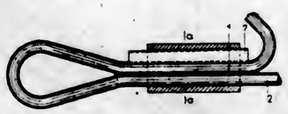


1. In an arbor press, a base plate having a central aperture and a plurality of grooves adjacent the periphery of said member, in combination with detachable power-applying means comprising a supporting member, a plurality of gripping members pivoted to said supporting member, an operating member associated with said supporting member, means associated with said supporting member and actuated by the same for causing said gripping members to approach each other, and means for detachably locking said gripping members in position in the grooves of the base plate.

1,373,589. PROCESS OF SEASONING STEEL ARTICLES. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,188. 12 Claims. (Cl. 263—13.)

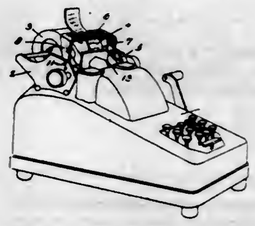
1. The herein described process of seasoning steel articles after hardening, which consists in placing the articles in a liquid bath, slowly heating the bath with the articles to a relatively high temperature, permitting the bath with the articles to slowly cool to normal temperature, and then alternately dipping the articles a large number of times in hot and cold baths at temperatures respectively above and below the normal temperature.

1,373,590. COUPLING FOR TENSION MEMBERS. GOTTFRIED BODMER, Küsnacht, near Zurich, Switzerland, assignor to Hans Meier, Villmergen, Aargau, Switzerland. Filed Apr. 30, 1919. Serial No. 293,714. 4 Claims. (Cl. 24—136.)



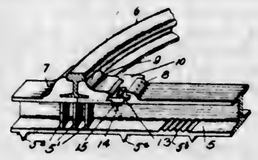
3. A coupling for over-lapping tension members, comprising a sheet of metal having an arcuate bend at its middle at one edge of said coupling and two V-shaped bends at the opposite edge of the coupling, a separate spacing piece for arrangement between the over-lapping portions of the tension members to be connected, and a wedge for insertion between said V-shaped bends and one of said tension members.

1,373,591. MEMORANDUM DEVICE. JOHN B. BRADY, Somerset, Md. Filed July 21, 1919. Serial No. 312,276. 5 Claims. (Cl. 281—12.)



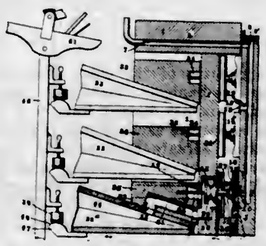
3. An attachment for machines having means for supporting a paper strip, said attachment comprising a flat extended portion and side members integral therewith and adapted to be secured to said machine, and means for guiding said paper strip continuously against said flat extended portion to permit the making of pencil notations on said strip, substantially as described.

1,373,592. RAIL-CLAMP. JOHN J. BRANAGAN, McKees Rocks, Pa. Filed Dec. 8, 1920. Serial No. 429,108. 6 Claims. (Cl. 238—65.)



1. The combination with a rail, of a tie, and means for securing the rail to the tie, said means including a rail engaging clamp, a wedge plate coöperating with means on the tie for holding the clamp in position, means removably carried by said wedge plate for engaging one edge of the tie to hold said wedge plate against removal, and other means on said removable means for preventing the accidental removal thereof.

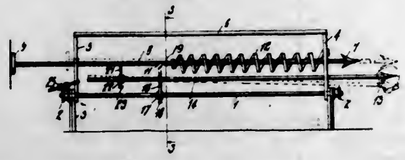
1,373,593. ACTION FOR PNEUMATIC MUSICAL INSTRUMENTS. GEORGE P. BRAND, New York, N. Y. Filed Mar. 28, 1917. Serial No. 158,044. 7 Claims. (Cl. 84—50.)



1. In an action for pneumatic musical instruments, a chamber having a back and a front board one of which is removable and forming therebetween a suction chamber, one of said boards having valve chambers therein, removable plates on said last-named board having ports affording communication between said valve chambers and the

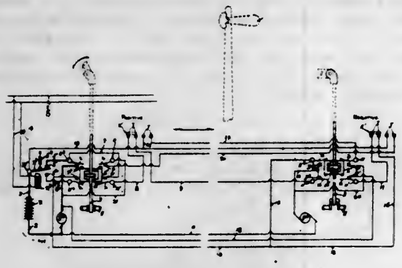
suction chamber, the other board having ducts, diaphragm pneumatics and their chambers formed independently of and located between said boards and communicating with said ducts, valves in said valve chambers, and fixed guide stems for said valves.

1,373,594. ANIMAL-TRAP. PHILIP JENNINGS BREWINGTON, Temple, Tex. Filed May 14, 1920. Serial No. 381,392. 6 Claims. (Cl. 43—79.)



6. In a device of the class described, the combination of a frame composed of an upper bar and a lower bar, standards connecting the ends of said bars, a spear rod slidably mounted in said standards, means for normally urging said spear rod forwardly, a bait rod, a trigger having a collar encircling said lower bar, a set screw provided in said collar for fixing same tightly to said lower bar, said trigger provided with a slot intermediate its ends for pivotally carrying said bait rod, and having its upper end sharpened so as to engage a notch in said spear rod, and means provided on said bait rod for engaging said spear rod so that when said bait rod is pivoted said spear rod will be lifted out of engagement with said trigger.

1,373,595. ELECTRICALLY-ACTUATED TRACK-TRIP. CLAYTON A. BROOKS, Girard, Pa. Filed Oct. 29, 1920. Serial No. 420,367. 14 Claims. (Cl. 246—202.)



1. In an apparatus of the class described, a pair of shiftable trip mechanisms positioned adjacent to the railroad track, at points distant from each other, mechanism adapted to operate each of said trip mechanisms, an electric motor to actuate each of said mechanisms, an electric generator, electric conductors connecting said generator and each of said motors, and circuit changing switches adapted to be operated by said trip operating mechanisms so that when one of said trips is moved to a vertical position the other will be moved to a horizontal position.

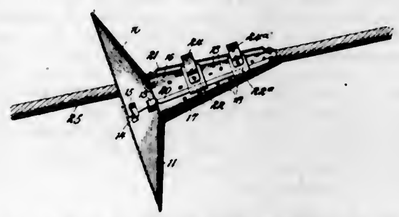
1,373,596. SECURING-PIN. OSCAR E. BURKHOLDER, San Francisco, Calif. Filed Jan. 20, 1920. Serial No. 353,086. 6 Claims. (Cl. 132—51.)

1. A securing pin comprising a pair of tubular members connected at one end and having the outer surfaces of the opposite ends curved inwardly and apertured; and a pair of pins slidably mounted within the tubular



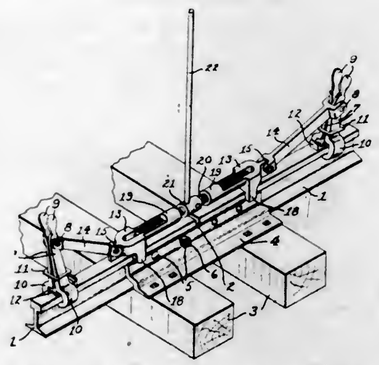
members and arranged to be moved by said curved ends to cross each other when projected beyond said ends.

1,373,597. RAT-GUARD. WILLIAM P. CAREY, New Orleans, La. Filed July 24, 1920. Serial No. 398,842. 16 Claims. (Cl. 114—221.)



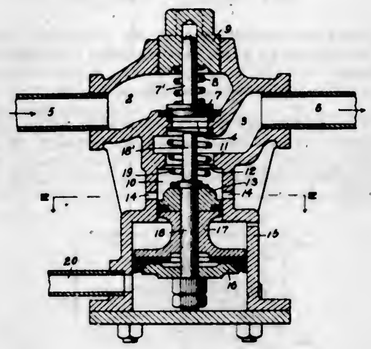
1. A rat guard for ships' ropes comprising a pair of hingedly connected disk sections together forming a flattened cone, means to clamp said sections upon a rope, and means for locking the sections together comprising a tongue struck out from the edge of one section near the center of the guard, the edge of the second section being received between said tongue and the first section, a perforation in the second section near the outside of the guard, and a bendable prong extending from the first section and adapted to enter the perforation.

1,373,598. RAIL-JOINT-ADJUSTING DEVICE. FRANK V. CARMAN, Oakland, Calif. Filed July 6, 1920. Serial No. 394,099. 5 Claims. (Cl. 254—43.)



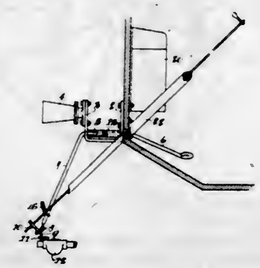
1. A rail-joint adjusting device comprising a pair of oppositely disposed clamps for engaging the alined rails, one on each side of the joint; a pair of oppositely disposed heads lying between the clamps; a link connecting each head with its corresponding clamp; and means coacting with said heads for forcing them apart and drawing them together, whereby the rails are moved to adjust their joint.

1,373,599. CONTROLLING-VALVE. CHARLES H. CLARK, Dormont, Pa. Filed Jan. 18, 1917. Serial No. 143,083. 1 Claim. (Cl. 137—139.)



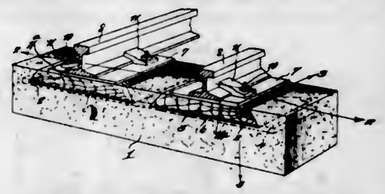
A control casing inclosing a cylinder having an atmospheric vent port formed therein, a receiving chamber, and a discharge chamber normally communicating with said vent port, a valve for controlling communication between said chambers, a spring for normally closing said valve, a differential piston located in said cylinder and movable, in response to fluid pressure delivered to said cylinder, to close said vent port, a stem carried by said piston for engaging said valve to open the same after said vent port is closed, and a spring between a stationary portion of the casing and said piston for accumulatively resisting the valve opening movement of said piston independently of the position of said valve.

1,373,600. ACCELERATOR CONNECTION. HERBERT CORFIELD, Duncan, British Columbia, Canada. Filed Dec. 30, 1919. Serial No. 348,366. 2 Claims. (Cl. 74—39.)



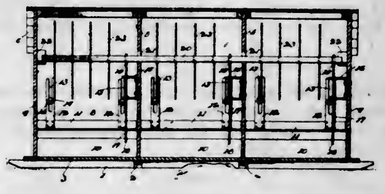
1. An accelerator connection, comprising in combination a crank rod rockably mounted on the dash board to turn on an axis substantially parallel to the medial line of the car, one end of which rod is bent to form a pedal, and the other end turned down for direct connection to it of the carbureter control rod, means for flexibly connecting the throttle control lever to the same control rod, and means for normally holding the control rod in the closed position.

1,373,601. CEMENT TIE AND RAIL-FASTENER. ADAM LEONODES CRANE, Fort Mill, S. C. Filed Nov. 22, 1920. Serial No. 425,797. 4 Claims. (Cl. 238—89.)



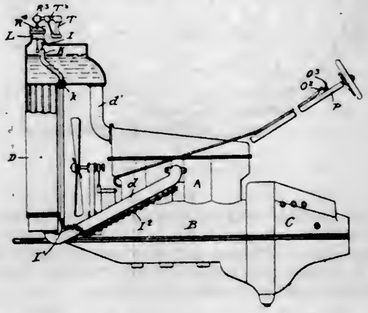
1. In a tie, a plastic tie body having dovetail recesses in its upper face, insert wooden blocks removably dovetailed in said recesses, plates resting upon the blocks, rails engaging said plates, rail fastening plates diagonally disposed on opposite sides of the rails, and bolts passing upwardly through the blocks and the rail supporting and fastening plates to hold said parts in position, a metallic plate embedded in the tie body and having its upper face forming the bottom of the recesses and constituting a bed for the insert blocks.

1,373,602. STOCK-FEEDER. LILLIAN D. DONALDSON, New Washington, Ohio. Filed Dec. 31, 1919. Serial No. 348,520. 3 Claims. (Cl. 119—53.)



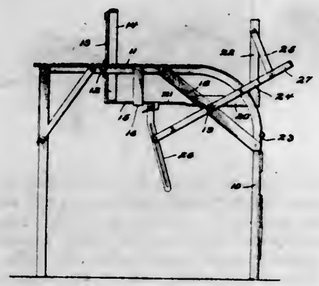
1. In a stock feeder, the combination of a bin, an agitator bar mounted for sliding movement therein, agitator fingers carried by said bar, and a rock shaft mounted within the bin and having its upper end offset and engaged in the agitator bar and its lower end provided with a crank to be actuated by a feeding animal.

1,373,603. DEVICE FOR SUPPLYING HEATED VAPOR TO INTERNAL-COMBUSTION ENGINES. BEVERLY DOUGLAS, Baltimore, Md. Filed Dec. 23, 1919. Serial No. 346,919. 9 Claims. (Cl. 123—25.)



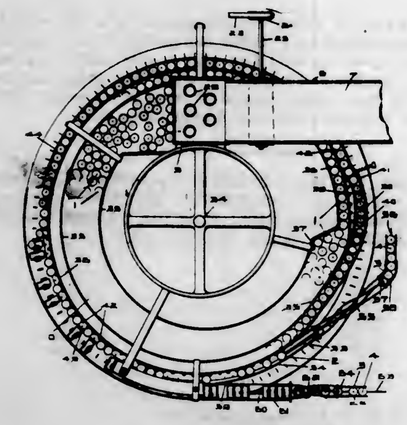
1. In a device for supplying hot vapor to internal combustion engines, the combination with a carbureter, an air intake pipe to the carbureter, a vapor supply pipe opening into said air intake pipe to the carbureter, and a valve in said air intake pipe on the outer side of the vapor supply pipe opening.

1,373,604. APPARATUS FOR INVERTING BOTTLES. RALPH H. DYER, Providence, R. I. Filed Aug. 29, 1919. Serial No. 320,596. 6 Claims. (Cl. 214—1.)



1. In apparatus of the class described, in combination, a frame, a platform pivoted to the frame adapted to receive an open ended receptacle containing bottles, a second platform also pivoted to the frame at a point apart from the pivotal point of the first platform and adapted to support an open ended empty receptacle and lever mechanism supported on the frame and connected to the respective platform, whereby they may be rotated about their respective pivotal points to transfer the bottles from the first receptacle to the second and simultaneously invert them.

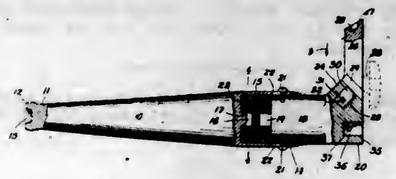
1,373,605. CAN-HOLDING MECHANISM. SYLVESTER EBERLY, Toledo, Ohio, assignor to David A. Yoder, Toledo, Ohio. Filed Oct. 21, 1919. Serial No. 332,269. 16 Claims. (Cl. 193—1.)



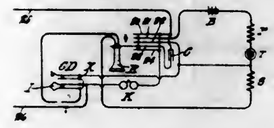
1. Can handling mechanism embodying a conveyer, an up-ending device to which the conveyer delivers, and a sorter for cans of different end structures including mechanism for moving cans of one end structure-up away from cans having a different end structure-up.

1,373,606. DOLLY-BAR. AMSIH J. ELIAS, New York, N. Y. Filed Oct. 23, 1919. Serial No. 332,593. 5 Claims. (Cl. 78—53.5.)

1. A device of the class described comprising a body portion one end of which is tubular in form, a plunger mounted in said tubular end portion, means for limiting the inward and outward movement of the plunger, tensional means for normally holding the plunger in its outermost position, and a finger bar detachably connected with said plunger.

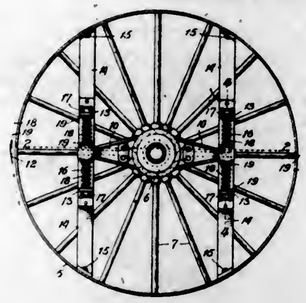


1,373,607. SUBSTATION TELEPHONE SET. JOHN ERICKSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 10, 1916. Serial No. 130,528. 13 Claims. (Cl. 179—81.)



6. In a substation telephone set, the combination with a hook switch, of a listening circuit, and a talking circuit controlled by said hook switch, said hook switch having three positions, means for moving said hook switch from first to second position to close said listening circuit and for moving said switch hook from second to third position to render said listening circuit inoperative and to close said talking circuit.

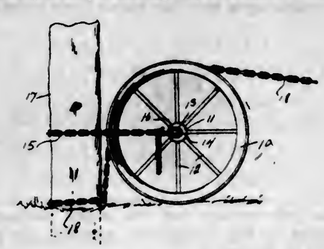
1,373,608. TRACTOR. JOHN B. FOOTE, Oak Park, Ill. Filed Oct. 7, 1919. Serial No. 329,103. 4 Claims. (Cl. 64—100.)



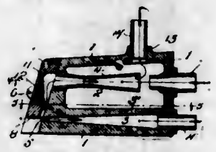
1. The combination with a traction wheel comprising a rim, a hub and spokes, of a live axle supported in said wheel, a driving-member comprising a hub fixed on the axle and a rigid arm thereon, a substantially straight bar having its ends secured to the rim and spring connections between the outer end of the arm and said bar.

1,373,609. POST-PULLER. VICTOR HUGO FRIER, Wakonda, S. D. Filed July 14, 1920. Serial No. 396,148. 4 Claims. (Cl. 254—135.)

1. In a post puller a drum pulley embodying the usual apertured hub, a shaft extending through the aperture of the hub, a flexible element adapted to be passed about the post and having one end secured to one end of said shaft, means for adjustably securing the free end of said flexible element to the other end of said shaft and a flexible element extending over said drum and adapted to be secured to the post adjacent the ground.



1,373,610. BURNER. JOSÉ E. GONZÁLEZ, Unión de Reyes, Cuba. Filed Apr. 14, 1920. Serial No. 373,813. 3 Claims. (Cl. 158—78.)



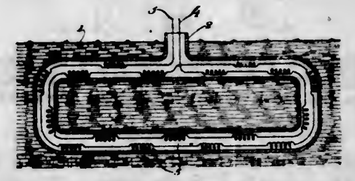
1. A burner for liquid fuel comprising a box provided with two chambers, an upper and a lower one, and inside the upper chamber a pipe widened at its ends and reduced at its center leading from the interior of the chamber toward the exterior thereof, in combination with means for introducing the fuel in the upper chamber above the inlet of said pipe, means for introducing a hot fluid in the upper chamber in front of the inlet of said pipe, means for leading the mixture of fuel and hot fluid toward an outlet in the lower chamber, and means for introducing a pressure fluid in the lower chamber.

1,373,611. PORTABLE ELECTRIC LIGHT. DAVID L. GRAFF, New York, N. Y., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Apr. 25, 1918. Serial No. 230,649. 21 Claims. (Cl. 240—8.5.)



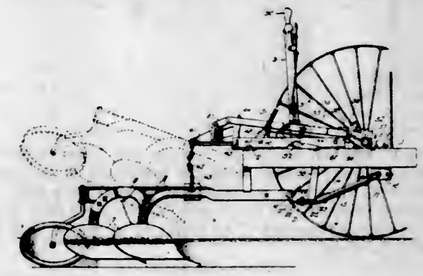
5. A portable electric light comprising a casing having a front opening, a back capable of being opened and closed and a flexible handle-loop fastened at its ends and adapted to be folded on itself, and then down against said casing and being equipped with snap-fastener members for securing it in its folded-down position, a non-conducting block within said casing disposed between the top and bottom thereof and intermediate the ends of the casing and with said ends forming parallel chambers for battery-cells, a sleeve secured to the front of said block and positioned with respect to the front opening in the casing, a reflector and lamp entered within said sleeve, a lens and lens-ring applied to said sleeve and exposed at the front opening in the casing, battery-cells in the aforesaid parallel chambers, a manually operative switch on said casing, and conductors for the circuit through the lamp and batteries to the switch terminals to be connected by the switch.

1,373,612. UNDERGROUND LOOP-ANTENNA. EARL C. HANSON, Washington, D. C. Filed Mar. 19, 1919. Serial No. 283,517. 3 Claims. (Cl. 250—33.)



1. An underground antenna system for radio signaling comprising a looped coil inclosed in a conduit and arranged perpendicularly to the surface of the earth, and means electrically connected in the convolutions of the loop for substantially eliminating response to strays.

1,373,613. TRACTOR-PLOW. HENRY J. HEIDER, Carroll, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed July 27, 1917. Serial No. 183,114. 2 Claims. (Cl. 97—54.)

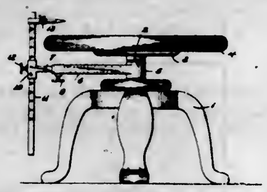


1. The combination of a power-propelled tractor having rear supporting wheels, an axle therefor and a frame, a vertically swinging lift-arm pivotally mounted on said tractor frame to the rear of said axle, a plow beam pivotally connected on the tractor frame and connected to said lift-arm to be raised thereby, a ratchet wheel on the tractor axle, a rotary arm loosely mounted on said axle and directly connected with said lift arm for actuating said lift-arm, a pawl carried by said rotary arm, lever mechanism for connecting the pawl with the ratchet wheel, an automatic device for disconnecting said pawl from the ratchet wheel, means for locking said beam in raised position, and means for releasing said locking means to thereby permit said beam to be lowered by gravity.

1,373,614. SKIRT-MARKER. HATTIE LOUISE HIBBS, Princeville, Ill. Filed Apr. 6, 1920. Serial No. 371,697. 1 Claim. (Cl. 33—9.)

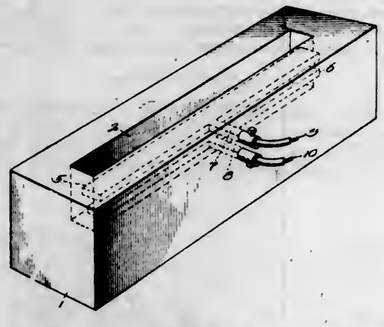
A garment marker including a stool, a rotary platform provided with a depending screw having a threaded lower portion and a smooth upper portion, the threaded portion being mounted in the stool, a hollow horizontal arm located between the stool and the platform and provided at its upper end with a sleeve arranged on the smooth portion of the screw, a horizontally adjustable rod telescoping into the hollow arm and provided at its outer end with a vertical sleeve, a graduated vertical rod adjustably mounted in the vertical sleeve, a horizontal

marking device located above the platform and having a collar adjustably mounted on the upper portion of the



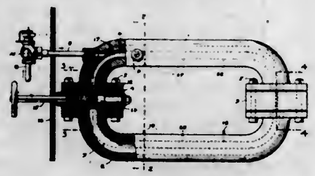
graduated rod, and means mounted on the hollow arm and the vertical sleeve for clamping the horizontal rod and the graduated vertical rod in their adjustment.

1,373,615. CIRCUIT-CONTINUING HEATING-RECEPTACLE. CHARLES F. JACOBS, Chicago, Ill. Filed Mar. 20, 1919. Serial No. 283,716. 4 Claims. (Cl. 219—76.)



1. A heating receptacle having an inner electrode and an outer electrode upon the same side of the receptacle with the inner electrode and projecting within the receptacle beyond the inner electrode to serve as a guard to prevent engagement of an object to be heated with the inner electrode.

1,373,616. GAS GENERATOR AND BURNER. GEORGE L. N. JOHNSON, Watsonville, Calif., assignor to C. P. Rood, Watsonville, Calif. Filed Aug. 1, 1916. Serial No. 112,508. 1 Claim. (Cl. 158—53.)



A burner and generator including two members, each provided with an oil channel and a vapor channel in parallel relation, secured together by blocks to form a continuous elongated ring, a fourway valve in one of said blocks adapted to connect adjacent passages to said channels, said vapor channel being provided with burner nozzles adapted to direct a flame against the ring to heat the same.

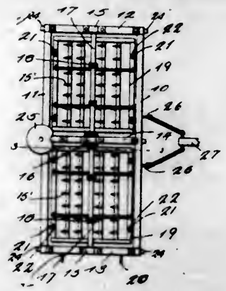
1,373,617. STUD-BOLT DRIVER. JAMES P. JOHNSON, Cleveland Heights, Ohio. Filed Apr. 12, 1920. Serial No. 373,266. 5 Claims. (Cl. 81—183.)

1. A stud-bolt driver comprising a rotatable body member provided with a barrel, a socket member adapted to receive the bolt to be acted upon, operative within said body member, said socket member being provided with cavities which open into the socket; and means coacting



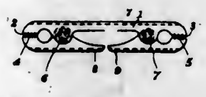
with the body member and the socket member through the opening in the cavities for gripping the bolt when the device is rotated.

1,373,618. HARROW. AUSTIN E. KING, Cole, S. D. Filed Jan. 10, 1917. Serial No. 141,600. 1 Claim. (Cl. 55—88.)



In a harrow, the combination with a main supporting frame, means for attaching the draft thereto, a shaft journaled across said frame transverse to the line of draft, and means for adjusting the shaft in its bearings; of a plurality of harrow frames subjacent to the main frame and each carrying teeth inclined to the rear and trailing as the structure is drawn, and combined draft and adjusting chains wound on and depending from said shaft and branched to the front and rear corners of the respective harrow frames and constituting their only connection with the main frame, said shaft being midway between the front and rear ends respectively of the frames, for the purpose set forth.

1,373,619. COLLAR-CLASP. FREDERICK KOHN, New York, N. Y. Filed Oct. 7, 1920. Serial No. 415,242. 2 Claims. (Cl. 24—81.)

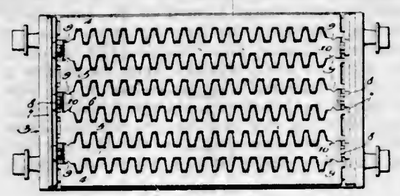


1. In a clasp, the combination with opposed jaws having overlapping side portions provided with pivotally engaging protuberances and depressions integral therewith, and a spring for pressing the jaws together, said spring having a coiled bearing portion centered on said pivoting parts of the jaws.

1,373,620. STEWART GRATE CONSTRUCTION FOR SINTERING-MACHINES. AUGUST L. LARSON, Kellogg, Idaho. Filed Aug. 20, 1920. Serial No. 404,778. 11 Claims. (Cl. 266—21.)

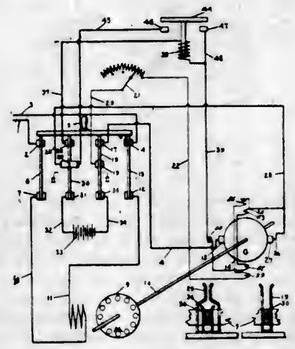
1. In a grate for ore carriers or pallets, a series of relatively fixedly held grate irons and other grate irons

coöperative with the fixedly held irons and movably mounted with respect to the said fixedly held irons and



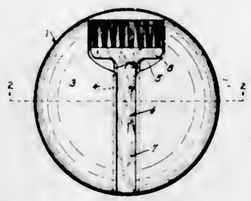
having a limited outward drop relatively to the fixedly held arms, as the pallet or carrier is inverted.

1,373,621. SAFETY CHARGING DEVICE FOR BATTERIES. JAMES F. LINCOLN, Cleveland, Ohio. Filed Mar. 21, 1917. Serial No. 156,382. 8 Claims. (Cl. 171—314.)



7. A battery charging dynamo electric machine having shunt, supplementing series and interpole field windings, a prime mover for actuating the machine, and solenoid means for short-circuiting the series field windings in maintaining the machine operation as a generator.

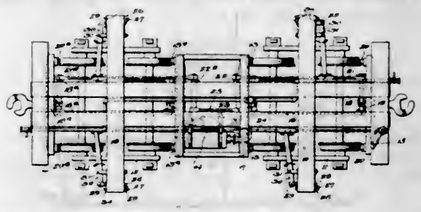
1,373,622. BOX AND ATTACHMENT THEREFOR. EDWIN C. J. LLOYD, Jeannette, Pa. Filed June 4, 1920. Serial No. 386,624. 2 Claims. (Cl. 220—85.)



2. In combination, a box including a cover provided with a dove tail groove and a recess communication therewith, and a brush including a stem fitting snugly in said groove, the head of the brush fitting within the recess and the brush being positioned within the outline and below the plane of the upper face of said cover.

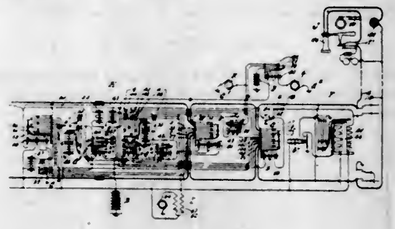
1,373,623. UNLOADING ATTACHMENT FOR CARS. CHARLES D. MACK, Cooley, Ariz. Filed June 24, 1920. Serial No. 391,274. 3 Claims. (Cl. 105—384.)

1. The combination with the brake actuating mechanism of a car, of a plurality of pivotally mounted car stakes on opposite sides of the car, means for locking said stakes in upright position, and connections between said



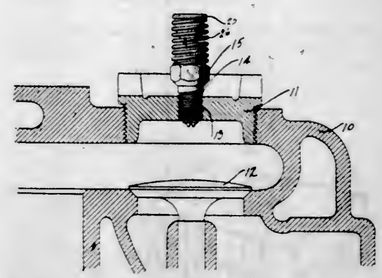
locking means and brake mechanism for releasing said locking means.

1,373,624. AUTOMATIC TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1916. Serial No. 96,495. 22 Claims. (Cl. 179—18.)



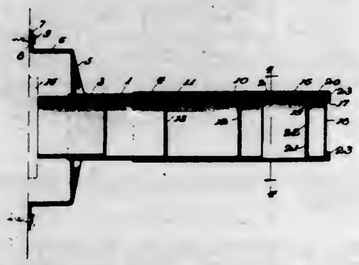
1. In a telephone system, a calling line, a called line, a plurality of progressively movable switches, any one of which will serve the purpose of the calling line for establishing a connection to said called line, a signal for the called line, a source of current for operating said signal, a circuit individual to one of said switches, a circuit common to said switches, means for connecting said source over said individual circuit to operate said signal and for then connecting said source over said common circuit to said signal to operate the same, and means for interrupting said common circuit to intermittently operate said signal.

1,373,625. PRIMING-CUP. STANLEY A. MARTINEK, Amarillo, Tex. Filed May 28, 1920. Serial No. 384,972. 5 Claims. (Cl. 123—187.5.)



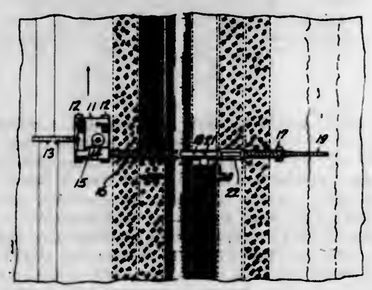
1. A priming cup comprising a body portion having a through opening and provided with a depending threaded shank for engagement through a cylinder wall, a cup slidably mounted upon the upper end of the body portion, a valve controlling the through port at the lower end of the body portion and having connection with the cup, and a spring arranged about the upper end of the body portion and about the cup for normally urging the latter upward to seat said valve.

1,373,626. VIGNETTING ATTACHMENT FOR MULTIPLE-EXPOSURE CAMERAS. SELEST E. MOINE, Lubbock, Tex. Filed Nov. 3, 1919. Serial No. 335,382. 6 Claims. (Cl. 95—65.)



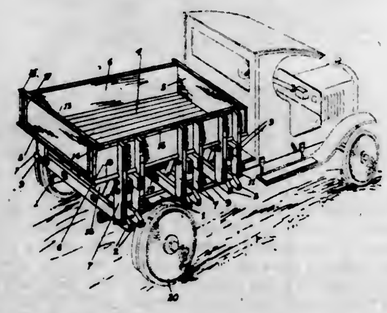
1. In an attachment of the class described, telescopic tubular members, means for attaching one of said members to a camera front, and a plurality of spaced light ray interrupting means within one of said members.

1,373,627. SYSTEM OF HANDLING PEAT. ERNEST V. MOORE, Montreal, Quebec, Canada. Filed Aug. 29, 1918. Serial No. 251,985. 8 Claims. (Cl. 44—29.)



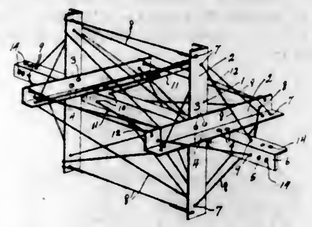
1. A method of handling peat which comprises simultaneously excavating peat, spreading the peat for drying, cubing the dry peat, and gathering and stacking the dry peat by means of a single apparatus advancing continuously over a working area.

1,373,628. BODY FOR DUMPING-TRUCKS. GEORGE G. NELSON, Turlock, Calif. Filed Nov. 24, 1919. Serial No. 340,363. 3 Claims. (Cl. 298—18.)



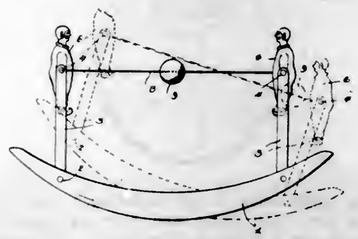
1. A dumping body for vehicles comprising a floor portion flexibly mounted to the frame of the vehicle lengthwise thereof, rigid end boards on the floor, latches on the end boards, side boards adapted to rest in a vertical position adjacent the end boards and be held by the latches thereon, vertical beams secured to the side boards and pivoted to the floor, rods mounted in the frame of the vehicle longitudinally thereof and on which the beams normally rest, and means whereby when the latches on one side are released the potential energy of the load will cause the vertical beams on that side to move away from contact with the rods and the side board to swing outwardly to lie in a plane parallel to the floor and the latter to be simultaneously tilted at a downward angle on that side.

1,373,629. JETTY. CARL NOHLEN, Cleburne, Kans. Filed Oct. 15, 1920. Serial No. 417,126. 1 Claim. (Cl. 61—3.)



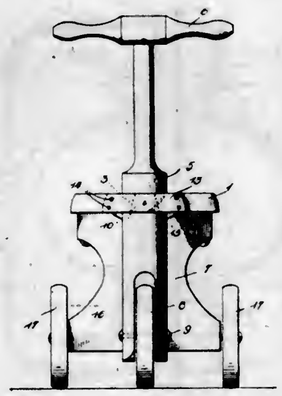
In a silt-bar forming-device, a frame adapted to be placed in moving water, said frame comprising two pairs of angle bars crossing each other at right angles, a longitudinally extending angle bar secured in the corresponding crotches of the two pairs of bars, means for fastening the bars of each pair together, reinforcing ties connected to the longitudinally extending bar at points between the two pairs of bars, and at points adjacent the ends of the longitudinally extending bar and converging outwardly and in turn connected to the corresponding ends of the right angle crossing bars, and reinforcing ties connecting the corresponding ends of the crossing bars, certain of the reinforcing ties which connect the outer ends of the right angle bars intersect each other, thereby additionally reinforcing the frame.

1,373,630. ROCKING TOY. HARRY G. NORWOOD, Baltimore, Md., assignor to William Fuld, Baltimore, Md. Filed Aug. 12, 1920. Serial No. 402,983. 3 Claims. (Cl. 46—40.)



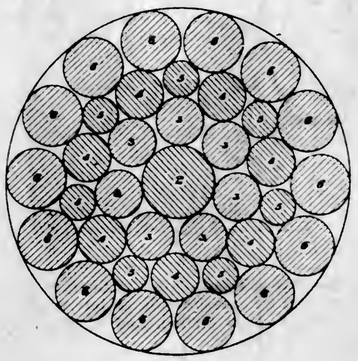
1. A rocking toy comprising a pair of spaced rockers, means connecting the opposite ends of said rockers, arms carried by said connecting means, means connecting the outer ends of said arms, figure toys pivotally mounted on said last referred to means, spacing collars mounted on said arm, connecting means between said figure toys and said arms, a rod connecting said figure toys, and a weight slidable upon said rod, substantially as hereinbefore described.

1,373,631. CHILD'S VEHICLE. HARRY G. NORWOOD, Baltimore, Md., assignor to William Andrew Fuld, Baltimore, Md. Filed Oct. 8, 1920. Serial No. 415,633. 2 Claims. (Cl. 208—165.)



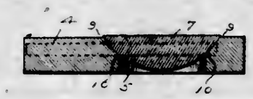
1. A child's vehicle comprising a seat portion having a slot at its front end, the rear end of said slot having a curved bearing portion, a one-piece steering head at the inner end of said slot, a bearing block slidable in said slot and having its rear end formed with a complementary bearing for said steering head, and means for holding said block from vertical and longitudinal movement.

1,373,632. WIRE ROPE. FREDERICK S. PHELPS, Sausalito, Calif., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Aug. 25, 1920. Serial No. 405,956. 5 Claims. (Cl. 28—5.)



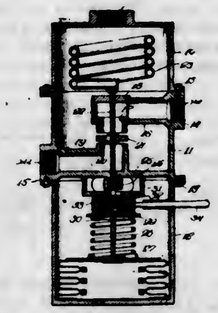
1. A wire rope or strand formed of round wires and comprising a core, an inner layer of wires wound helically around said core, an intermediate layer of wires surrounding said inner layer, the wires in said intermediate layer being double the number in said inner layer and having alternate wires lying in the interstices between the wires of said inner layer, and an outer layer of wires surrounding said intermediate layer and having the wires in said outer layer lying in the interstices between the wires of said intermediate layer.

1,373,633. METHOD OF MAKING BIFOCAL LENSES. PURL C. PLASTERER, Dayton, Ohio. Filed Oct. 29, 1919. Serial No. 334,132. 9 Claims. (Cl. 49—82.1.)



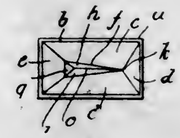
1. The process of eliminating bubbles from composite blanks of ophthalmic lenses while uniting the elements thereof which consists in providing a vent for the air, gas, or moisture through one of the lens elements.

1,373,634. FLUID-MIXER. DONALD J. POWERS, Dobbs Ferry, N. Y., assignor to The Powers Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed June 25, 1920. Serial No. 391,780. 7 Claims. (Cl. 236—12.)



1. In a thermostatically controlled hot and cold fluid mixer, the combination of a casing having a mixing chamber and provided with inlets for hot and cold fluid and an outlet for the combined fluids, a valve for controlling the entrance of the hot and cold fluids, a container for a thermostatic liquid located within the mixing chamber, an expansible and collapsible chamber located exteriorly of the mixing chamber and also adapted to contain thermostatic liquid, a conduit connecting said chambers, and a connection between the expansible and collapsible chamber and said valve for operating the valve, substantially as described.

1,373,635. RECORDING-STYLUS. KARL RAMMELSBERG, Cassel, Germany. Filed Mar. 9, 1916. Serial No. 83,105. Renewed Sept. 27, 1920. Serial No. 413,160¼. 2 Claims. (Cl. 274—38.)

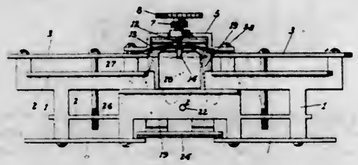


1. A stylus for recording apparatus, comprising a supporting member, and a member extending therefrom, said latter member being substantially in the shape of a wedge having a receding front face and two tapering converging side faces.

1,373,636. RAKER-GAGE. GUSTAVE A. REINKE, Stockton, Calif. Filed June 1, 1920. Serial No. 385,577. 6 Claims. (Cl. 33—202.)

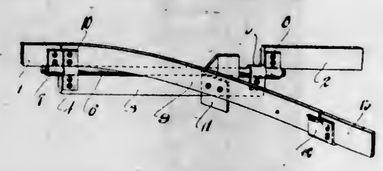
1. A raker-tooth gage comprising a vertical frame having transverse top and bottom plates extending length-

wise thereof, a peg adapted for vertical movement relative to the top plate and to project beyond the under face thereof, a support for the peg, a slotted plate parallel



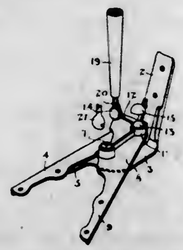
to the bottom plate, and adapted for vertical movement relative thereto, and means whereby the peg and slotted plate may be moved in such vertical relation simultaneously and at a uniform rate of speed.

1,373,637. REVERSIBLE SWITCH-RAIL. ROYAL N. RIBLET, Spokane, Wash., assignor of one-half to Byron C. Riblet, Spokane, Wash. Filed Apr. 27, 1920, Serial No. 376,992. Renewed Feb. 15, 1921. Serial No. 445,229. 1 Claim. (Cl. 104—101.)



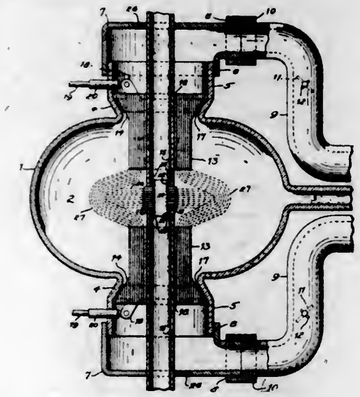
The combination in a reversible switch member with the adjoining ends of the alined track sections having fixed bangers, of a rock bar journaled in said hangers beneath the track sections, a straight rail section normally alined with the track sections, a bracket fixed on said bar and straight rail section, a normally lower diverging frog section, a second bracket attached to said straight section, bar, and diverging section, a bracing plate connecting the straight section and frog section, a switch rail, and a socket member on said switch rail to receive and support the end of the diverging frog section when the switch member is inverted.

1,373,638. SHEARS. CALEB ROACH, Toronto, Ontario, Canada. Filed Oct. 21, 1918. Serial No. 259,041. 3 Claims. (Cl. 30—13.)



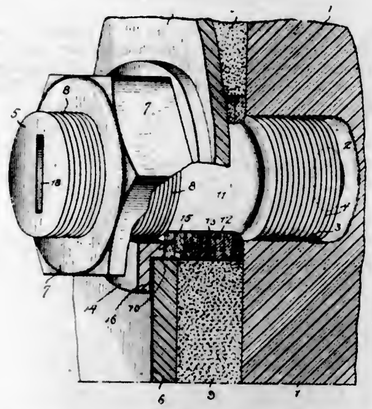
1. In a pair of shears, a blade having an upturned lug at the butt end, a handle rigidly secured to said lug, an arm pivotally secured intermediate of its length to the aforesaid handle and having its lower end arranged to swing above said rigid blade, a blade pivotally mounted intermediate of its length on the upper side of the rigid blade, and a link having a universal joint connection at each end and connecting the butt end of the upper blade with the lower end of the swinging arm.

1,373,639. PROCESS FOR THE ELECTRIC FIXATION OF GASES. GEORGE T. SOUTHGATE, New York, N. Y. Original application filed Apr. 11, 1918, Serial No. 227,975. Divided and this application filed Nov. 22, 1920. Serial No. 425,600. 3 Claims. (Cl. 204—31.)



1. The herein described process of fixing atmospheric nitrogen which consists in passing streams of gas or gases through porous electrodes simultaneously with the passage of an electric arc between said electrodes.

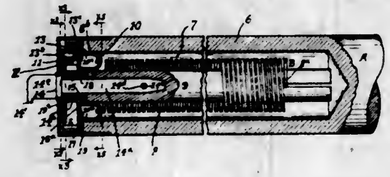
1,373,640. BOLT AND ITS INSTALLATION. JOHN TAYLOR, Brooklyn, N. Y. Filed Sept. 24, 1919. Serial No. 325,889. 13 Claims. (Cl. 85—1.)



10. For use in a bolt installation of the type described, a bolt threaded at its opposite ends, an intermediate plain shank of reduced cross section, and a spacer packing wound on said shank.

1,373,641. SHADE-ROLLER. FRANK E. WILLIAMS, Alhambra, Calif. Filed June 24, 1918. Serial No. 241,471. 5 Claims. (Cl. 156—36.)

1. A shade roller comprising a rotatable body member, a spring supporting rod extending into said body member and adapted to be held against rotation, a spring connected with said body member and said rod, means for rotatably mounting said member, a series of elements rotatable with said body member and adapted for pawl actuation, a pawl held against rotation with said body member and adapted to normally lie against elements of said series, and a second series of elements rotatable with said body member and against which the pawl is projected by an element of said first named series at high rate of speed of body member rotation; said pawl engaging an element of said first named series to hold



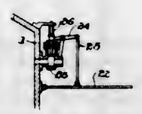
the body member against rotation under influence of the spring at slow rate of speed of body rotation; and the leading and following edges of each of the elements of said first named series being disposed at different radial distances from the center of rotation.

1,373,642. UMBRELLA. WALTER EMMETT AIREY and JOHN POMFRET, Manchester, England. Filed Dec. 30, 1919. Serial No. 348,369. 2 Claims. (Cl. 135—28.)



2. In an umbrella, a notch provided at its interior with a plurality of longitudinal channels, and also provided with a plurality of radial slots, said notch being exteriorly threaded for a portion of its length, and an interiorly threaded ferrule secured to said notch and provided with a plurality of radial openings, the longitudinal channels and radial slots of the notch communicating with the interior of the ferrule.

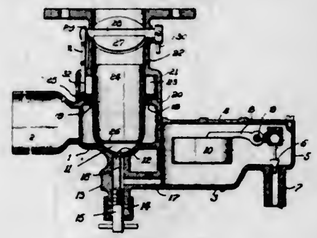
1,373,643. APPARATUS FOR REFLOATING SUNKEN VESSELS. MURAJI ARIURA, Tokyo, Japan. Filed Jan. 24, 1920. Serial No. 353,835. 2 Claims. (Cl. 114—52.)



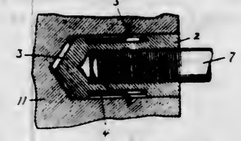
1. In an apparatus for raising sunken objects, a floating tank provided with a water inlet pipe and air discharge ports, spring actuated valves for closing said ports, wings hinged to said tank and projecting horizontally therefrom, and means for connecting said valves to said wings.

1,373,644. CARBURETER. JESSE BALDWIN, Detroit, Mich., assignor to B. C. Case, Detroit, Mich. Filed June 7, 1919. Serial No. 302,478. 1 Claim. (Cl. 261—52.)

A carbureter of the type described comprising a body having an air intake connection and a fuel basing, a throttle in said body, a manifold connection having a lower large end seated on said body, a sleeve-like valvular member slidable in said body and said manifold connection and having a lower contracted end adjacent the bottom of said basin to control the supply of air to said manifold connection, said valvular member coöperating with said manifold connection in providing an annular chamber communicating with the manifold connection above said valvular member and adapted to have a partial vacuum produced therein, a peripheral flange on said valvular member in said annular chamber adapted to raise said valvular member when there is a partial vacuum in said chamber, and a rod extending into said annular chamber and connected to said throttle outside of said body and adapted to engage the flange of said valvular member to lower said valvular member and also limit the forward movement thereof.

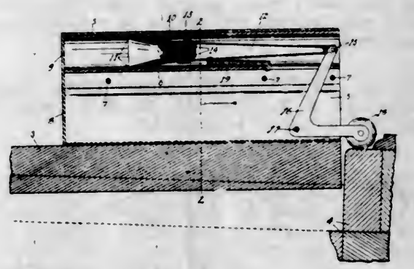


1,373,645. ANCHORING DEVICE. ERICH A. M. BANDOLY, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,442. 5 Claims. (Cl. 85—32.)



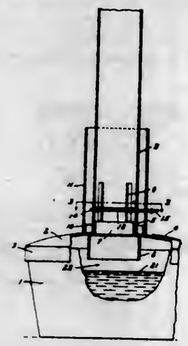
1. A self-anchoring nut or the like comprising a main member equipped intermediate its ends with a peripheral groove, and a collar seated in the said groove and having outwardly projecting tongues formed therefrom and all extending in the same direction longitudinally of the collar.

1,373,646. DOOR-CHECK. ENEVOLD BANG, Minneapolis, Minn. Filed Jan. 18, 1921. Serial No. 438,245. 4 Claims. (Cl. 16—77.)



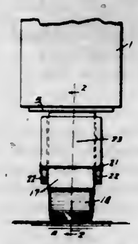
2. A door check consisting of a cylinder adapted to be secured to a door, a plunger slidably mounted in the cylinder, said plunger being cupped at its forward end, a suitably mounted bell crank lever having one arm operatively connected with said plunger, and a roller mounted on the other arm of said bell crank lever, said roller being adapted to co-act with the door frame.

1,373,647. ORCHARD-HEATER. GEORGE L. BLANCHARD, Pomona, Calif. Filed June 11, 1919. Serial No. 303,464. 9 Claims. (Cl. 158—91.)



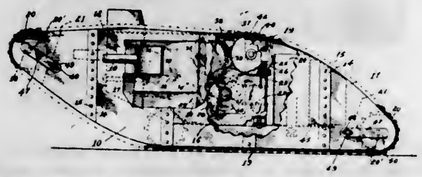
1. An orchard heater comprising a closed receptacle adapted to contain oil having an adjustable draft opening, a stack extending upwardly from the top of the receptacle communicating with its interior and having perforations in the lower end above the top of the receptacle, and a perforated diaphragm rotatably mounted transversely in the stack and positioned with the stack perforations above and below the diaphragm and a casing surrounding the stack for preheating the air entering through said slots.

1,373,648. SELF-ADJUSTING CASTER. WALLACE K. BRADFORD, Los Angeles, Calif. Filed Jan. 3, 1921. Serial No. 434,627. 8 Claims. (Cl. 16—164.)



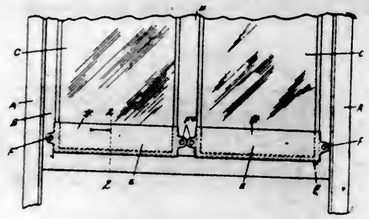
7. In a caster the combination of a frame for a roller, and a supporting plate received through the same and arranged for lateral twist relative to said frame, said frame having a pintle adapted to abut against one face of said plate and a wedge received between the opposite face of said plate and said frame so as to bind the parts when twisted.

1,373,649. TOY TANK-CAR. ROBERT POTTER BREESE, New York, N. Y. Filed Feb. 14, 1918. Serial No. 217,085. 5 Claims. (Cl. 46—48.)



1. A toy tank car comprising two substantially oblong shaped vertical side pieces, tractor chains mounted on the periphery of said side pieces, means comprising an electric motor within said frame for driving said chains, and means for guiding and keeping said chains taut.

1,373,650. FLYTRAP. ALDER G. CARLSON, Moose Lake, Minn. Filed Sept. 20, 1920. Serial No. 411,580. 1 Claim. (Cl. 43—119.)



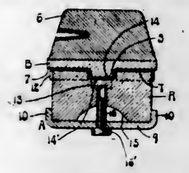
In combination with a window sash, a trough adapted to contain a poisonous liquid therein secured to the lower part of the sash adjacent the pane therein, said pane having a thin coating of poisonous liquid on the surface adjacent said trough.

1,373,651. FOOD PREPARATION AND PROCESS OF MAKING SAME. HARRY STUDDERT CULLEN, Wellington, New Zealand, assignor of one-half to Guy Leslie Fulton, Wellington, New Zealand. Filed Jan. 12, 1918. Serial No. 211,481. 2 Claims. (Cl. 99—11.)

1. An egg substitute, comprising casein, sodium bicarbonate, hot water and fresh eggs, mixed together in the approximate proportions by weight respectively of 15 parts, 1 part, 65 parts, and 30 parts.

2. The process of making an egg substitute which consists in grinding and mixing together approximately 15 parts by weight of casein, and 1 part of sodium bicarbonate, pouring the mixture into 65 parts of hot water, whipping the hot mixture for approximately five minutes, adding thereto 30 parts of fresh eggs, and whipping to a creamy mass.

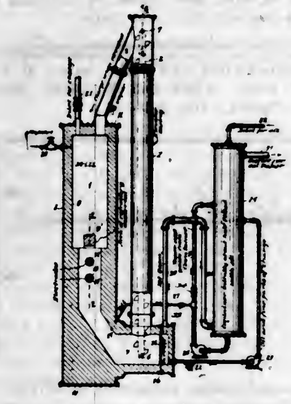
1,373,652. RESILIENT WHEEL. JAMES CUNNINGHAM, St. Louis, Mo., assignor to Demountable Spring Tire Company, New York, N. Y., a Corporation of Missouri. Filed June 30, 1919. Serial No. 307,619. 3 Claims. (Cl. 152—36.)



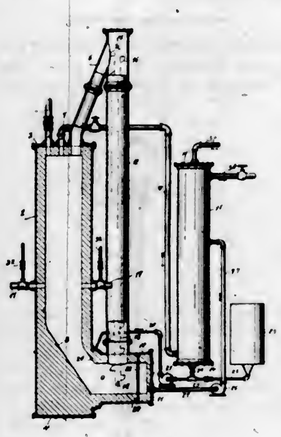
1. In a resilient wheel, the combination of an inner rim, an outer rim surrounding said inner rim, one of said rims being provided with an annular track facing the other rim, an annular retaining rib extending from said annular track, and an annular row of resilient expanding clutches arranged circumferentially of said annular track and interposed between said rims to form a yielding frictional connection which allows one of said wheel members to turn faster than the other, said resilient clutches being adapted to creep along said annular track, and said clutches being provided with recesses for the reception of said annular retaining rib, whereby the clutches are retained on said annular track.

1,373,653. PROCESS FOR THE PRODUCTION OF GASOLENE FROM CRUDE OIL. PAUL DANCKWARDT, Denver, Colo. Filed Aug. 27, 1917. Serial No. 188,305. 6 Claims. (Cl. 196—26.)

1. The process of producing hydrocarbons of relatively low boiling points from hydrocarbons of relatively high boiling points, which consists in causing material containing such hydrocarbons of relatively high boiling points to react with a heated mixture of carbon, a haloid salt and a metal, removing the vapors formed and condensing all oils having relatively low boiling points separately from those of higher boilings points, substantially as and for the purpose described.

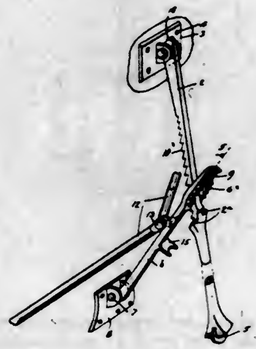


1,373,654. PROCESS FOR THE PRODUCTION OF HYDROCARBONS OF LOW BOILING-POINTS FROM HYDROCARBONS OF HIGH BOILING-POINTS. PAUL DANCKWARDT, Denver, Colo. Filed Aug. 27, 1917. Serial No. 188,307. 7 Claims. (Cl. 196—26.)



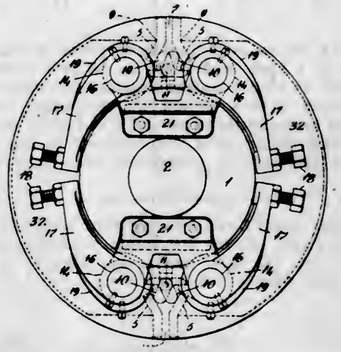
3. The process of producing hydrocarbons of relatively low boiling points from hydrocarbons of relatively high boiling points, which consists in igniting a mixture of carbon, nickel and nickel chlorid, passing air and steam through the mixture to maintain combustion, adding oil to the mixture, allowing it to distil off, passing it through another body of oil and mixture of the above ingredients, and condensing that part of the oils which boils at or below 150° C. separately from the portion boiling at a temperature above said point.

1,373,655. SAFETY DEVICE FOR PREVENTING MOTOR-CARS FROM OVERTURNING. CHARLES DANIEL, Huntington Park, and EDWARD A. JUHNKE, Los Angeles, Calif. Filed Oct. 16, 1919. Serial No. 331,251. 4 Claims. (Cl. 280—150.)



1. A device for preventing the lateral overturning of automobiles, comprising a leg pivotally connectible to the upper portion of a side of the automobile; and a pawl attachable to the side of the automobile in a position vertically below the pivot of the leg and interengaged with the latter so as to prevent separation of the parts and adapted to interlock therewith to limit the outward swing of the leg when the parts are swung outward by the tilting of the automobile.

1,373,656. MEANS FOR ATTACHING PRINTING-PLATES TO CYLINDERS. CARL EBERHARD DRANGE, Plainfield, N. J., assignor to Isabella Scott and David J. Scott, executors of the estate of Walter Scott, deceased. Filed Jan. 20, 1916. Serial No. 73,093. 9 Claims. (Cl. 272.)

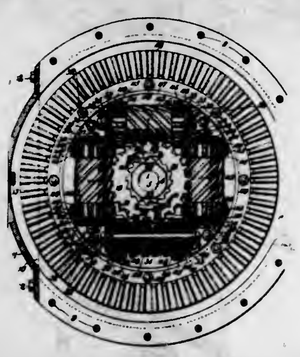


3. A printing machine cylinder, a plurality of flexible printing members carried on the surface of said cylinder lengthwise of the axis of said cylinder, a plurality of flexible printing members mounted on said cylinder circumferentially thereof, and means for individually straining said members from one end of said cylinder.

1,373,657. DIFFERENTIAL GEARING. JOHN A. FINEFROCK, Canal Fulton, Ohio. Filed Apr. 11, 1919. Serial No. 289,369. 9 Claims. (Cl. 74—99.)

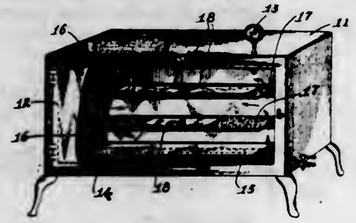
9. In a differential gearing, adjacent alined shafts or axle sections with worm gears at the meeting ends, and a plurality or group of worms surrounding each worm gear

and each meshing therewith, the worms of each group having means at each end meshing with the like means



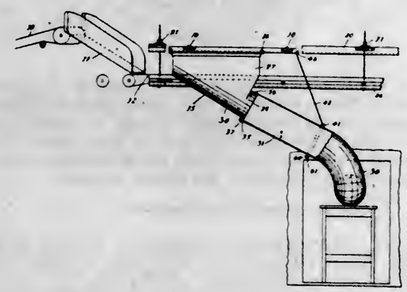
of the other group, and means connecting each group of worms with the other group of worms and provided with journal supports for the worms.

1,373,658. METHOD AND APPARATUS FOR PREPARING PHOTOENGRAVING-PLATES. JAMES S. FREER, Rutherford, N. J. Filed Mar. 23, 1920. Serial No. 368,079. 8 Claims. (Cl. 41—43.)



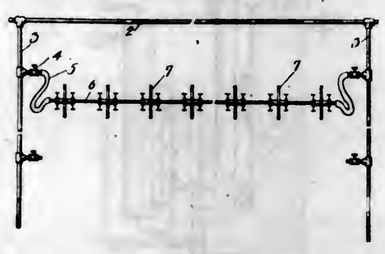
1. In a process of etching metal plates by applying an erosive to a plate surface having selected portions covered with an erosive resisting coating and which includes the heating of such coating, the step which consists in applying heat directly to the outer surface of the coating for a restricted period of time, sufficient to heat the coating and insufficient to considerably heat the body of the plate.

1,373,659. CONVEYER DEVICE FOR LOADING FLOUR INTO CARS. HENRY O'B. HARDING, Minneapolis, Minn. Filed Feb. 14, 1919. Serial No. 276,910. 3 Claims. (Cl. 193—19.)



1. A conveyer device for loading articles such as sacks of flour into cars comprising a framework, an overhead track supported by said framework, a carriage mounted for movement along said overhead track, a driven conveyer belt mounted adjacent and parallel to said overhead track, a chute depending from said carriage and having an angularly-disposed portion adapted to enter the side doors of cars, and means for shifting articles from said conveyer belt into said chute.

1,373,660. IRRIGATION SYSTEM. AARON E. IVERSON, Chatsworth, Calif. Filed Feb. 7, 1920. Serial No. 356,830. 6 Claims. (Cl. 299—47.)



1. An irrigation system, comprising a delivery pipe, a plurality of supporting members mounted for rotation on said pipe, and means for locking said supporting members to said pipe for rotation therewith in one direction.

1,373,661. EMULSION AND METHOD OF PRODUCING IT. ERNST M. JOHANSEN, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 14, 1920. Serial No. 430,789. 9 Claims. (Cl. 134—1.)

1. The method of emulsifying oily material of mineral origin, which consists in dispersing the same in water in the presence of water soluble sulfonates resulting from acid treatment of mineral oil or product thereof and in amount from about 1½ per cent. to about 8 per cent. by weight of said material.

1,373,662. SHOE-POLISHING APPARATUS. FRANCIS KINGSLEY, New Rochelle, N. Y. Filed Aug. 10, 1917. Serial No. 185,439. 3 Claims. (Cl. 15—61.)



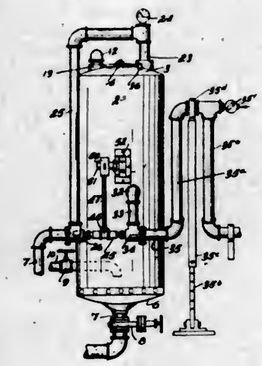
1. In an apparatus of the character described, the combination of a rotary brush, a vertical brush shaft movable with the brush in a horizontal and in a vertical plane, a depending drive shaft connected slidingly with the first named shaft and means to counter-balance the weight of the brush and the brush shaft for vertical movement relative to the drive shaft.

1,373,663. PEEL-PLATE FOR BAKING. CARL W. LAMPRECHT, Los Angeles, Calif., assignor of one-half to James L. Gilbert, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,645. 1 Claim. (Cl. 107—67.)



The herein described peel plate comprising a substantially rectangular flat body having its top and bottom surfaces cut away at its forward end to form shallow recesses, a continuous sheet of asbestos positioned on the end of the body within said recesses, the thickness of which sheet of asbestos is substantially half the depth of the recesses in said body, a sheet of thin sheet metal bent around the end of the body of the peel plate and wholly covering the sheet of asbestos, the outer surfaces of said section of sheet metal lying flush with the corresponding faces of the body of the peel plate, and fastening means extending through the body of the peel plate and through the end portions of the sheet of asbestos and the thin metallic sheet.

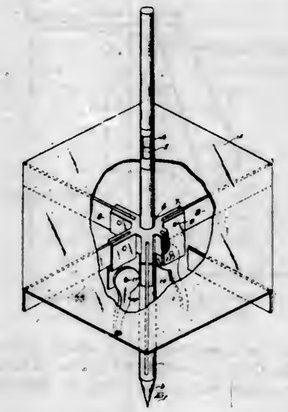
1,373,664. GAS, OIL, AND SAND SEPARATOR. DAVID G. LORRAINE, Los Angeles, Calif. Filed Feb. 5, 1920. Serial No. 356,438. 5 Claims. (Cl. 183—39.)



3. In an apparatus for separating oil and gas, a receptacle having separate discharge means for the oil and gas, each having an exterior valve actuated by a common crank, said valves being set for one to open as the other closes and float means within the receptacle actuated by the height of the liquid, operatively connected to said crank to actuate said valves.

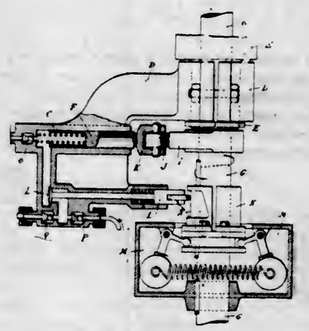
1,373,665. FOLDING CAMP-TABLE. FRED J. LOZON, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,163. 2 Claims. (Cl. 45—11.)

1. A collapsible, convertible camp table and umbrella, comprising a standard adapted to be driven into the ground, a hub member slidably mounted on the standard, a pair of diametrically opposed eccentric clamps having actuating levers pivotally mounted on the hub and adapted to engage opposite sides of the standard to adjustably support the hub thereon, a plurality of radial ribs pivotally mounted on the hub, said ribs having stops at their pivots to support them in a horizontal position when



opened, and a pliant sheet adapted to be connected to said ribs and be supported in a horizontal plane.

1,373,666. FUEL-SUPPLY REGULATOR FOR INTERNAL-COMBUSTION ENGINES. RODOLPHE EDGARD MATHOT, Brussels, Belgium. Filed May 13, 1919. Serial No. 296,952. 8 Claims. (Cl. 123—140.

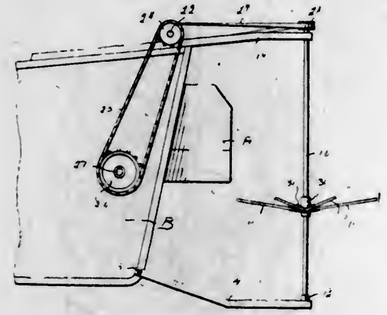


1. In fuel regulating mechanism for liquid fuel engines, the combination of a fuel injector, means for regulating the supply of fuel to said injector, separate operating devices for said injector and regulating means, a shaft supporting said devices and a governor controlling the operation of said regulating means, the injector and regulating means being connected to turn in unison for adjustment about the axis of said shaft whereby the timing of the fuel supply may be regulated without affecting the setting of the governor.

1,373,667. STRAW-DISTRIBUTER FOR HARVESTER-THRESHERS. EDWARD F. MILLER, Bison, Kans. Filed Oct. 2, 1920. Serial No. 414,182. 3 Claims. (Cl. 275—8.)

1. The combination with a harvester thresher, of means for distributing the straw therefrom comprising a vertically disposed shaft mounted at the discharge end of the harvester thresher and having a series of radially

directed separated arms attached thereto and rotating therewith in a horizontal plane and all extending from



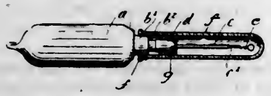
the shaft on the same plane, and means operatively connected to the driving mechanism of the thresher and for rotating the arms, said arms being of different lengths.

1,373,668. SCORING-MACHINE. CHESTER B. PEARSALL, Rochester, N. Y., assignor to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 28, 1919. Serial No. 333,883. 6 Claims. (Cl. 164—62.)



1. The method of treating paper board, which consists in passing the board through a primary scoring device, partially slitting the board longitudinally, and feeding the slitted board transversely to a secondary scoring device by pressure on the edge of the board remote from the secondary scoring device.

1,373,669. HYPODERMIC SYRINGE. PAUL S. PITTENGER, Philadelphia, Pa., assignor to H. K. Mulford Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 23, 1919. Serial No. 305,987. 5 Claims. (Cl. 128—216.)



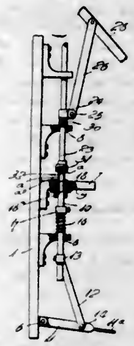
1. A hypodermic syringe comprising a collapsible capsule, a neck of relatively incompressible material on the capsule provided with a discharge duct, a needle formed with a discharge duct for alinement with the first named duct and a compressible hub carried by the needle and adapted to be pressed on to the exterior of said neck to form a practically nonrenewable connection between the needle and the capsule.

1,373,670. BEDCLOTHES-HOLDING DEVICE. EDWIN B. PLUMB, Clawson, Mich. Filed Oct. 6, 1919. Serial No. 328,804. 3 Claims. (Cl. 267—75.)

1. A bed clothes holding device comprising flexible members disposed in parallelism and adapted to have the ends thereof connected to the ends of a bed so as to extend lengthwise thereof at the side edges of the bedclothes, and detachable clamps at intervals on said flexible members and adapted to frictionally grip the side edges of the bed clothes.

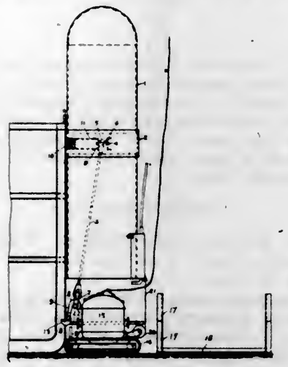


1,373,671. EYELETING-MACHINE. MARTIN RASMUSSEN, Racine, Wis. Filed Nov. 7, 1919. Serial No. 336,245. 4 Claims. (Cl. 218—1.)



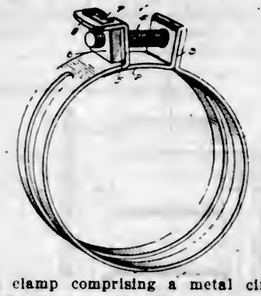
3. In an eyeleting device, a mandrel having an axial bore and being insertible through an unclenched eyelet, a sharp-ended leading member having a shank to fit in the bore of said mandrel, said leading member having a base to extend outward over the entering end of the unclenched eyelet to guard the said entering end against engagement with material in which the eyelet is being inserted, a table having an aperture therethrough and constituting an anvil and a support for the object to be eyeleted, yielding means to hold said mandrel in such position that its bored end extends through said aperture and beyond the upper surface of said table, a plunger having a hollow end to receive the sharp end of said leading member, said plunger being formed to clench said eyelet when operated, means to operate the plunger, and means to retract the mandrel from the eyelet.

1,373,672. DEVICE FOR RAISING SUNKEN VESSELS. JESSE W. RENO, New York, N. Y. Filed July 23, 1920. Serial No. 398,481. 6 Claims. (Cl. 114—52.)



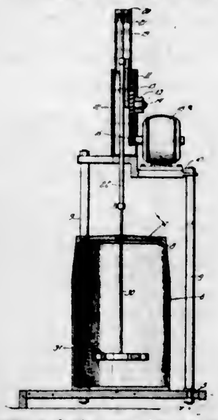
1. A pontoon, having a closed upper end and open lower end, adapted to be vertically disposed in the sea, and lifting cables extended up to the pontoon to the approximate middle line thereof, and at which point secured to the walls of the pontoon.

1,373,673. HOSE-CLAMP. CHARLES E. RITTER, Chicago, Ill., assignor, by mesne assignments, to J. S. McChesney & Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 26, 1918, Serial No. 255,865. Renewed June 23, 1920. Serial No. 391,159. 3 Claims. (Cl. 24—19.)



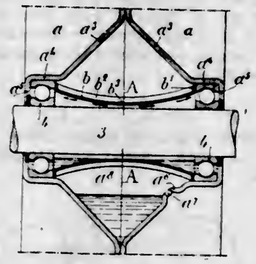
3. A hose clamp comprising a metal circumferential band equipped with two outwardly projecting ears, and a tightening bolt engaging the said ears and including a nut; one of the said ears being equipped with a perforation sufficiently larger than the shank of the bolt to permit a tilting of the said shank while extending through the perforation; the second ear comprising a main portion extending radially outward of the clamp and an end portion extending transversely of the aforesaid portion and in a direction away from the first named ear of the clamp; the second ear having a slot portion extending radially of the clamp inward from the juncture of the said two portions of this ear and adapted to receive the shank of the bolt, and having in its said end portion a slot portion extending transversely of the clamp and adapted to permit the passage of the nut of the bolt therethrough, the said two slot portions being connected and the said second ear having on its end portion shoulder formations disposed laterally of the first named slot and adapted to engage the nut to lock the bolt against movement radially outward of the clamp, the said end portion of the second ear being spaced from the adjacent circumferential portion of the band by a distance closely approximating the width of the nut, thereby causing the nut simultaneously to engage the said shoulders and the juncture of the second ear with the said circumferential portion of the band.

1,373,674. POWER-OPERATED CHURN. JOHN M. RODGER, Chicago, Ill. Filed June 1, 1920. Serial No. 385,493. 18 Claims. (Cl. 259—113.)



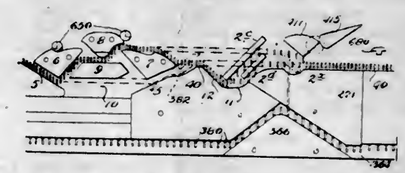
1. In a churn, a dasher member, a guide for said dasher member and means to impart a vertical reciprocating motion to said dasher member comprising a rotatable gear, a link pivotally mounted at one end near the outer periphery thereof and having its other end pivotally mounted on said dasher member and means to impart rotation to said gear.

1,373,675. PULLEY CONSTRUCTION. LOUIS ROUANET, Ivry-Port, France, assignor to Campagnie D'Applications Mecaniques, Ivry-Port, France. Filed Aug. 4, 1917. Serial No. 184,495. 9 Claims. (Cl. 64—26.)



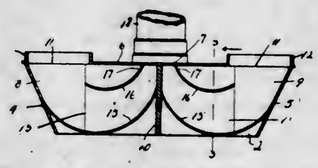
6. In combination, a pulley, spaced bearings carried by the pulley, a lubricating chamber between the bearings having a circumferentially extending groove therein, a coupling piece between the bearings and within the chamber arranged to receive the lubricant from the chamber and to distribute the same to the bearings when the pulley is rotating.

1,373,676. YARN FEEDING AND SEVERING MECHANISM FOR KNITTING-MACHINES. ROBERT W. SCOTT, Babylon, N. Y., assignor to Scott & Williams, Incorporated, a Corporation of Massachusetts. Original application filed Dec. 31, 1914, Serial No. 879,887. Divided and this application filed Sept. 30, 1919. Serial No. 327,393. 11 Claims. (Cl. 66—12.)



1. A knitting machine having therein a single series of knitting needles and means for knitting plain fabric thereon by continuous circular single-course knitting of a main yarn, means for establishing and extinguishing during said continuous operation an auxiliary knitting wave in said instruments, and means movable toward and away from the needles to introduce to and withdraw from knitting relation with said auxiliary wave an auxiliary yarn acting at the times of such establishment and extinguishment respectively.

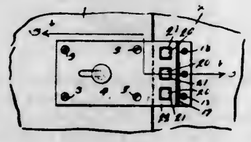
1,373,677. HARMONY-BOX FOR TALKING-MACHINES. BENEDICKT SCRIVANI, Camden, N. J. Filed Apr. 17, 1920. Serial No. 374,572. 1 Claim. (Cl. 181—27.)



A harmony box for talking machines, comprising a top having an inlet opening midway its length and provided

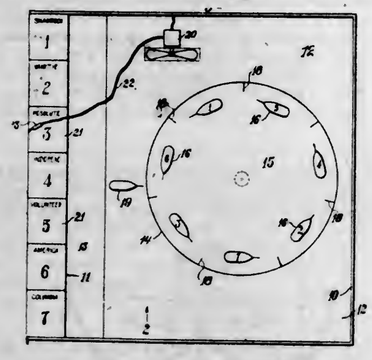
with an outlet opening at each end thereof, parallel side walls connected with said top, downwardly converging end walls connected with said top and side walls; a partition between the side walls midway the length thereof bisecting the inlet opening and forming two resonating compartments, a pair of flat vertical sounding boards in each compartment connected with the partition, side walls, and top, and diverging from points in the region of the inlet opening on the partition to the side walls at points approximately in alinement with the inner edge of the outlet opening, and a longitudinal arcuate sounding board in each compartment, the ends of which are connected to the partition and one of the end walls, the edges of said sounding board diverging outwardly therethrough, a portion of their length connected to the upright sounding boards and end walls.

1,373,678. LOCK. MARTIN SIEMER, New York, N. Y. Filed Feb. 11, 1919. Serial No. 276,267. 1 Claim. (Cl. 70—14.)



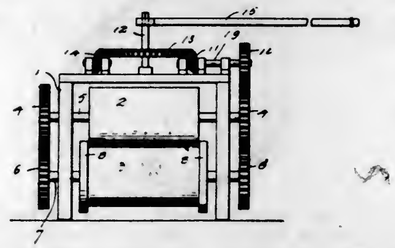
A lock comprising a body portion adapted to be secured to the surface of a door, said body portion having its end adjacent its outer face provided with an apertured plate, said plate extending outwardly parallel to the face of the door and spaced therefrom, a striker plate secured to the edge of the door jam, the outer face of the striker plate being provided with a series of lugs adapted to be received by the apertures of the apertured plate of the body member, said striker plate being of a thickness equal to the thickness of the body portion of the lock less the thickness of the apertured plate thereof so as to allow the door to close and a recess carried by the striker plate and disposed between the lugs thereof and the door frame for the reception of the lock bolt, thereby locking the door at right angles so that the door will be prevented from swinging when a tool is inserted between the edge of the door and a door jamb.

1,373,679. GAME. CHARLES E. SILKWORTH and AMOS P. SILKWORTH, Atlantic City, N. J. Filed Sept. 20, 1920. Serial No. 411,481. 1 Claim. (Cl. 46—56.)



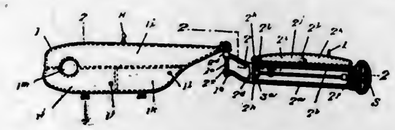
In a game the combination of a turntable, a plurality of miniature sailboats pivoted thereon, an electric fan for producing a current of air toward said sailboats to cause them to rotate on the said turntable, a miniature vessel mounted adjacent the path of rotation of said sailboats, positioning marks on said turntable for defining the positions of the sailboats relative to the said miniature vessel in a contest and after said sailboats have ceased to rotate, a counter arranged adjacent the said game and marks on said counter for identifying the players and the sailboats in the contest.

1,373,680. CANE-MILL. JOHN LITTLETON STANALAND, Moultrie, Ga. Filed Apr. 24, 1920. Serial No. 376,303 1 Claim. (Cl. 100—47.)



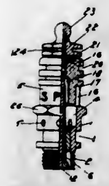
A canemill comprising a frame including uprights and a cross piece connecting the upper ends of the uprights, crushing rollers mounted in said uprights and having their journals extended therebeyond, corresponding sets of gears connecting the respective journals, a vertical shaft mounted on said cross piece, a gear wheel fast to the vertical shaft, vertical gear wheels mounted on the cross piece upon opposite sides of the vertical shaft and in mesh with the gear wheel fast thereto, the shaft of one of said vertical gear wheels extending beyond the cross piece, a gear wheel connecting said extended shaft with the adjacent set of gearing connecting the crushing rollers, and a sweep pole on the vertical shaft.

1,373,681. AQUATIC VEHICLE. BRUCE W. STRINGFELLOW, Culpeper, Va. Filed July 23, 1920. Serial No. 398,403. 10 Claims. (Cl. 9—18.)



1. The combination in an aquatic vehicle of a body member; and a frame adapted to carry the propulsive means for said vehicle, said body member and said frame being connected by means of a universal joint.

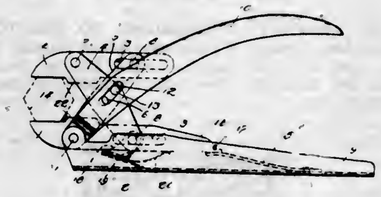
1,373,682. SPARK-PLUG. MAURICE P. SULLIVAN, Torrington, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Mar. 18, 1918. Serial No. 223,213. 4 Claims. (Cl. 123—169.)



1. In a spark plug, the combination of a shell having threads cut at one end thereof for the purpose of screwing said shell into an engine cylinder, a chamber at the

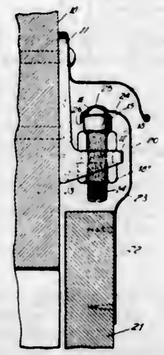
opposite end and a bore tapering upward from the threaded end into said chamber, a unitary structure consisting of a central electrode with only wound mica insulation thereon, a tapered metallic gland securely positioned on the wound mica and a terminal attached to the end of said central electrode, a fixed distance from said gland, said unitary structure being adapted to fit within said shell in such a manner that the taper on said gland engages the tapered bore on said shell so as to give a predetermined spark gap between the terminal and the shell, a spacing collar resting on the upper part of said shell, an insulator fitting over the central electrode and resting on said collar and a nut adapted to screw on to the upper part of the central electrode to draw all of said parts securely into operative position, as described.

1,373,683. PLIER-TYPE WRENCH. HENRY M. SVEBILIUS, Evanston, Ill. Filed May 14, 1920. Serial No. 381,424. 12 Claims. (Cl. 81—78.)



1. In a tool of the pliers type, a pair of jaw members, a pair of handles operatively connected thereto, and means operated by a continued approaching of the handles after the engagement of the jaws with an interposed object, for biting directly into a face of one of the jaw members to lock the jaws against separational movement.

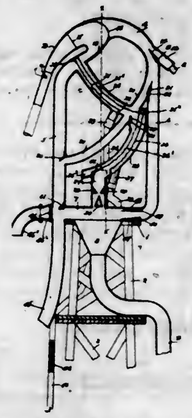
1,373,684. SLIDING-DOOR HANGER. KENNETH JOSEPH TOBIN, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 370,662. 7 Claims. (Cl. 16—7.)



1. In hanger construction, the combination of a series of spaced brackets each provided with a bearing roller and a track bridging the space between said brackets and formed with a portion supported on said rollers and shaped to be self retaining thereon.

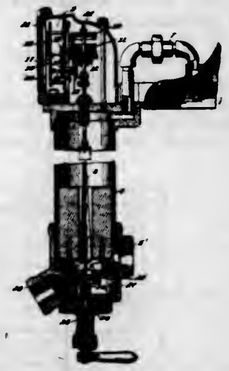
1,373,685. GRAIN-CLEANER. CHARLES ARGYLE TORRENCE, Winnipeg, Manitoba, Canada. Filed Sept. 3, 1919. Serial No. 321,402. 11 Claims. (Cl. 130—17.)

1. In a wind operated grain cleaning machine in combination, a wind feed spout for receiving and delivering the grain to be cleaned, a head chute receiving from the wind spout, vertically disposed side chutes connecting with the opposite ends of the head chute, a screen extending across the head chute and designed to effect an initial separation of the grain and direct the separated grain toward one of the side chutes, a blast chute connecting the lower ends of the side chutes, a spreader located above and



delivering to the blast chute, a hopper located on the under side of the blast chute, means for feeding the initially separated grain caught by the screen to the spreader, means for effecting a further cleaning of the grain in passage to the spreader and means for carrying off the material separated from the grain in passage.

1,373,686. DISPENSING-TANK. WILLIAM S. TOWNSEND, Washington, D. C. Filed July 1, 1920. Serial No. 393,279. 8 Claims. (Cl. 221—100.)



1. The combination with a dispensing tank provided with an air exhaust or suction means and a fluid inlet or supply means, and an outlet, of a vertically movable valve closing upwardly over said outlet and a valve stem movable toward and from the valve to hold it closed when moved up and permit it to automatically close or remain closed when moved downwardly away therefrom; whereby when the valve stem is turned to open the valve prior to the closing of the suction and breaking of the vacuum in the tank, the valve will remain closed or will fly to closed position upon a reverse flow through said outlet.

1,373,687. SHOE-LACE. MAXWELL E. TRAPHAGEN, Brooklyn, N. Y. Filed Feb. 9, 1920. Serial No. 357,245. 2 Claims. (Cl. 24—143.)

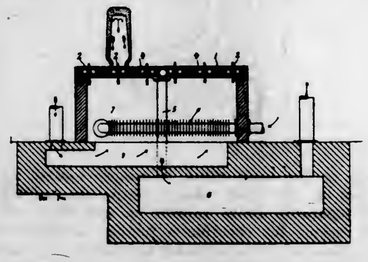
2. A lace comprising a body portion, flexible strands stitched securely into the ends of said body portion from

its extremities inward toward its center and then outward to the extreme ends, tightly wound over the end portions thereof the length of the coils being sufficient to



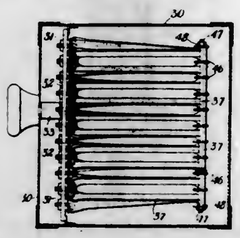
form tips, the ends of the strands being repeatedly passed through the body, in the manner of stitching, adjacent the inner ends of the coils formed by the windings.

1,373,688. PROCESS AND APPARATUS FOR DRYING CRUCIBLES. LOUIS VERGNIAUD, Paris, France, assignor to Corporation said: Etablissements Jacob Holtzer. Filed July 9, 1919. Serial No. 309,775. 9 Claims. (Cl. 263—4.)



1. A process for drying crucibles consisting in placing the crucibles in inverted position on a heated surface, subjecting the interior of the crucibles directly to a continuous circulation of hot air, and simultaneously subjecting the exterior surfaces of the crucibles to the heat given off by the heated surface, whereby the crucibles are dried rapidly and systematically.

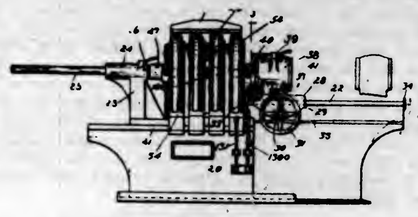
1,373,689. RESISTANCE DEVICE. ALFRED E. WALLER, Mount Vernon, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Mar. 3, 1919. Serial No. 280,293. 18 Claims. (Cl. 219—55.)



1. In a resistance device, a supporting panel, a plurality of resistor elements comprising strips having stiffened lengthwise portions connected by unstiffened bent portions, and supports for said strips mounted on said panel laterally displaced from each other and connected with the ends of said strips, which ends are separated from said bent portions by the intervening stiffened lengthwise portions.

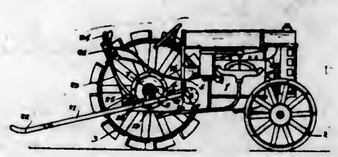
1,373,690. METAL-WORKING MACHINE. HANS H. WANDERS, Brookline, Mass. Filed Feb. 7, 1918. Serial No. 215,896. 29 Claims. (Cl. 90—15.)

1. A metal-worker machine comprising an annular tool carrier, a bearing therefor, work holders adapted to hold work extending through said carrier, means by which said work may be fed longitudinally into and out of position



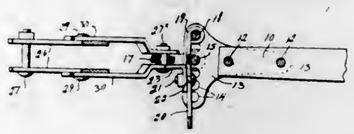
within said tool carrier, mechanism for rotatively indexing said work, and means for rotating said annular tool carrier.

1,373,691. SAFETY ATTACHMENT TO TRACTORS. HARRY LEE JACKSON WATCHORN, GEORGE HADLEY ROBERTS, and MICHAEL RAKER, Coutts, Alberta, Canada. Filed Dec. 9, 1919. Serial No. 343,504. 3 Claims. (Cl. 180—82.)



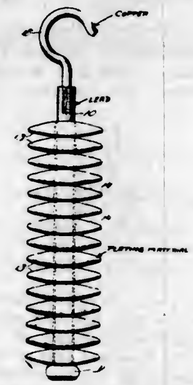
1. In a tractor, the combination with the clutch controlling pedal and the rear axle housing, of a bar extending rearwardly beneath the housing, a quadrant and detent adjustably connecting the bar to the housing, a shoe at the rear end of the bar and an operating connection between the front end of the bar and the clutch pedal.

1,373,692. CLEVIS. GEORGE W. WHATLEY, Clovis, N. Mex. Filed Nov. 3, 1920. Serial No. 421,570. 2 Claims. (Cl. 97—4.)



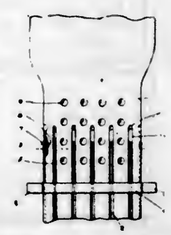
2. In combination with a wheel supported beam, a draft bar, side plates secured to said beam and provided in the forward edges with alined rows of openings, a pivot pin adapted for interchangeable mounting in the pairs of openings of said rows and having the ends thereof projecting beyond the sides of said side plates, a plate rigidly attached to said bar and provided with rearwardly extending portions having openings formed therein adapted for the reception of the ends of said pivot pin, a second pivot pin mounted in the uppermost pair of openings, a plate pivotally mounted upon said pin intermediate said side plates and extending downwardly of the forward side of said first named pivot pin, said plate being provided with a longitudinally elongated slot, a bolt slidably mounted in said slot, and members mounted upon the forward end of said bolt and provided with a forwardly extending portion adapted to engage beneath said bar attached plate when said plate is axially alined with said plow beam.

1,373,693. ANODE. ARTHUR H. WICKS, Woodstock, Ill. Filed Feb. 19, 1920. Serial No. 359,930. 9 Claims. (Cl. 204—4.)



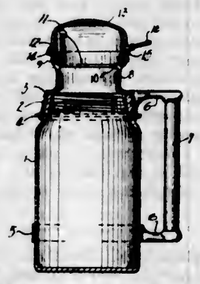
1. An anode of the character described for use in electrolytic tanks comprising a carrier made of material substantially uninfluenced by the solution in the tank, and a plurality of slugs consisting of active plating material demountably supported upon said carrier.

1,373,694. DRYING-FORM. EARL M. WITHERELL, Duluth, Minn., assignor of one-half to F. A. Patrick & Company, Duluth, Minn., a Corporation of Minnesota. Filed Mar. 24, 1919. Serial No. 284,800. 8 Claims. (Cl. 223—17.)



1. The combination with a garment shaping and drying form of the character described, of vertically reciprocable means extending wholly about the base of the form, and carried thereby for holding the garment equally on all sides thereof.

1,373,695. DISPENSER FOR FRUIT-JARS AND THE LIKE. JOSEPH E. WRIGHT, Lankershim, Calif. Filed Oct. 28, 1920. Serial No. 420,230. 2 Claims. (Cl. 65—31.)



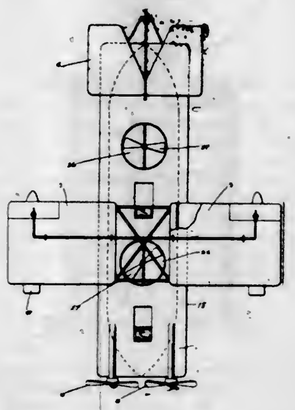
2. The combination with a jar, of a removable cap forming a spout, said cap being threaded on to said jar and having a handle depending therefrom, and a ring at the lower end of said handle received around said jar.

1,373,696. FUSE-PLUG. JOHN WILLIAM WULF, San Juan, Porto Rico. Filed July 7, 1919. Serial No. 308,983. 7 Claims. (Cl. 200—130.)



1. A fuse plug, comprising a body, spaced terminals carried thereby, and a fuse connecting said terminals, said body having a part adapted for the reception of a spare fuse, normally separated from said fuse connecting said terminals, said spare fuse being connected to one of said terminals and branching therefrom for disposition in said receiving part.

1,373,697. AIRSHIP. JENNINGS GRANT AMBROSE, San Diego, Calif. Filed Nov. 25, 1919. Serial No. 340,664. 2 Claims. (Cl. 244—2.)

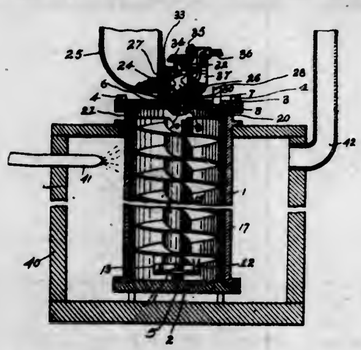


2. In a hydroaeroplane the combination with an aeroplane structure, of a pontoon thereunder, wells extending downwardly through the aeroplane structure and through the pontoon and registering, said wells being open at their upper and lower ends, means for detachably connecting the pontoon to the aeroplane structure, helicopters mounted for rotation within the well for displacing air downwardly and dissipating it between the pontoon and the surface of the water on which the pontoon is resting, and means under the control of the aviator for disconnecting the pontoon from the aeroplane structure while the machine is in flight.

1,373,698. METHOD OF TREATING SHALE AND LIKE MATERIAL. LIGON B. ARD, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,142. 2 Claims. (Cl. 196—21.)

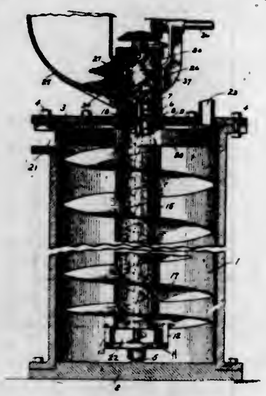
1. The method of treating shale and like material to drive off volatile matter therefrom, which consists in forcing relatively cool material immediately downward below the surface of a bath of molten metal of higher specific gravity than that of the material to be treated, discharging it in relatively cool condition into the bath of

molten metal to permit it to float upward through said molten metal, and retarding the upward movement of the



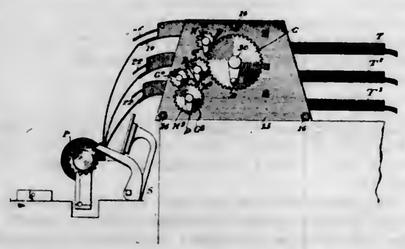
material whereby all of the volatile matter is driven off during its upward movement through said molten metal.

1,373,699. APPARATUS FOR TREATING SHALE AND LIKE MATERIAL. LIGON B. ARD, New York, N. Y. Filed Feb. 4, 1921. Serial No. 442,398. 3 Claims. (Cl. 196—19.)



1. The combination with a heated retort containing molten metal, of a conveyer and means for rotating it arranged to deliver the material to be treated at a point near the bottom of the retort below the surface of the molten metal, and means for retarding the upward movement of the material through the molten metal comprising a helical vane surrounding the conveyer.

1,373,700. PAPER-FEEDING APPARATUS FOR TYPEWRITERS. WILLIAM CHARLES AVERY, Honolulu, Hawaii. Filed Mar. 13, 1920. Serial No. 365,408. 10 Claims. (Cl. 270—58.)



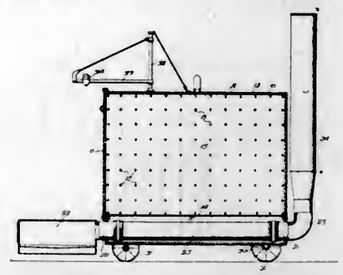
3. A paper feeding apparatus for typewriters comprising, a plurality of trays mounted for rocking movement independently of each other, a set of feed rollers for each of said trays, means for rotating one set of rollers independently of the other sets, and means for rotating all of said rollers simultaneously and at different speeds.

1,373,701. ANIMAL-POKE. PHILIP BARNEY, Dollard, Manitoba, Canada. Filed Mar. 8, 1920. Serial No. 364,107. 5 Claims. (Cl. 119—142.)



1. In an animal poke, a neck part formed from a single piece of wire bent to span the neck and provided at its extremities with eyes and centrally of its length with a pair of parallel coils, a hooked part formed from a single piece of wire attached to the neck part by passing the ends of the wire through the coils, said hooked part being bent to provide a head rest lying approximately at right angles to the neck part and a pair of upwardly extending diverging prongs positioned approximately at right angles to the neck part, a coil of wire connecting the bases of the prongs together and a nose part detachably connected to the latter coil.

1,373,702. RETORT. HUGH M. BARR, Pensacola, Fla. Filed May 24, 1920. Serial No. 383,742. 9 Claims. (Cl. 203—6.)

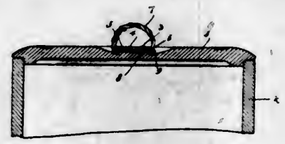


1. A retort for the destructive distillation of wood comprising a metallic shell, a lining of asbestos for said shell, a false bottom of reticulated material defining a retort chamber in the upper portion of the metallic shell and a heating chamber in the lower portion of the metallic shell and means for heating the retort comprising a pair of flues extending longitudinally of the heating chamber, each of said flues including two stationary flue sections alined with each other, one of said sections being seated in one wall of the shell and leading to the source of heat and the other of said sections being seated in the opposite wall of the shell and leading to the stack, a floating flue section suspended within the heating chamber between the stationary sections and spaced from the walls of the heating chamber and means for floating said floating flue section including a split asbestos sleeve having a centrally convexed portion, a split metallic sleeve having a correspondingly convexed central portion and clamping bands for securing the ends of the sleeve to the respective flue section.

1,373,703. COMBINATION HOLDER AND LIFTER. FREDERICK WARREN BARRON, Winnipeg, Manitoba, Canada. Filed July 6, 1920. Serial No. 394,095. 6 Claims. (Cl. 215—100.)

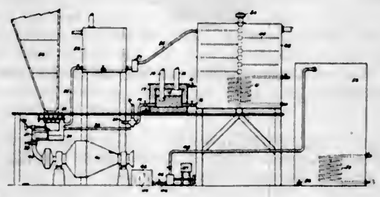
1. The combination with a cover having a knob and with the knob presenting an undercut circumscribing

groove, of a combined holder and lifter presenting a band passing around the knob and within the groove and a



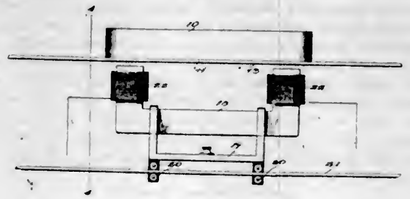
handle above the knob and passing from side to side of the band.

1,373,704. METHOD OF PRODUCING GAS. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Feb. 19, 1920., Serial No. 359,810. 7 Claims. (Cl. 48—211.)



1. That method of making gas which consists in the atomization into and ignition of stable mobile fuel comprising liquid hydrocarbon and pulverized solid carbonaceous substance in a mixture of air and steam in a generator heated to a temperature sufficient to transform the particles of solid carbonaceous substance and the liquid hydrocarbon into gas, the removal of ash from the gas, and the subsequent passage of the gas through a wash box containing liquid hydrocarbon to remove tar and lampblack therefrom.

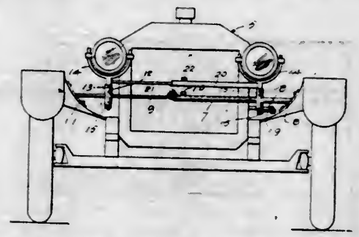
1,373,705. SHUTTLE-MOVER. FRANK JOSEPH BAUME, Mulhouse, Alsace-Lorraine. Filed Nov. 29, 1920. Serial No. 427,107. 2 Claims. (Cl. 139—83.)



1. In looms, a shuttle having a lower lengthwise strip of magnetically attractable material, a race-way on which the shuttle is movable having a lengthwise slot into which the said strip of the shuttle projects for guiding the shuttle, a track parallel with and below the race-way, and a carriage movable in guided relation on the track and having electro-magnetic means spaced below the race-way to attract the shuttle.

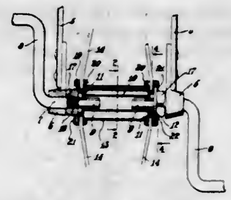
1,373,706. DIRIGIBLE HEADLIGHT. JOHN JOSEPH BAVOR, Cleveland, Ohio. Filed Feb. 6, 1920. Serial No. 356,679. 1 Claim. (Cl. 240—62.)

A dirigible headlight for automobiles comprising telescopic members having their outer ends provided with curved plates adapted to be secured to the mud guards of the automobile, upstanding sleeves carried by the telescopic members adjacent their outer ends, revoluble lamp supports mounted in the sleeves, a longitudinally adjustable connection between the lamp supports, a crank arm



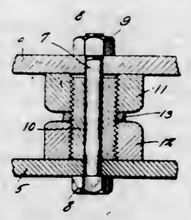
extending laterally from one of the lamp supports, and an operating connection between the crank arm and the steering post of the automobile.

1,373,707. VELOCIPEDE. CLARENCE W. BENNETT, New York, N. Y. Filed Jan. 14, 1920. Serial No. 351,385. 14 Claims. (Cl. 208—68.)



1. In combination with a velocipede, a fork provided with bearings, a wheel in said fork, a hub for the wheel, said hub having non-circular seats in the opposite ends thereof, cranks having non-circular end portions for interlocking engagement in said seats, screw-threaded portions on the crank, journal portions on the crank for engagement with the bearings, and nuts rotatably confined to the opposite ends of the wheel hub and engaging the threaded portions of the cranks to draw the inner ends of the cranks into the seats in the hub and the journal portions into the bearings in the fork.

1,373,708. MOTOR-SUPPORT. GEORGE FRED BLUME, Philadelphia, Pa. Filed Dec. 30, 1920. Serial No. 434,137. 3 Claims. (Cl. 248—30.)

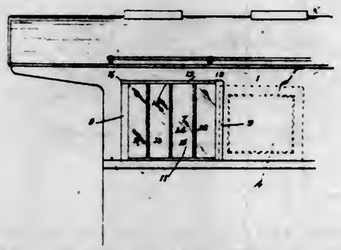


3. In an adjustable motor support, a pair of spaced members, means for securing the spaced members in spaced relation, said means including a threaded sleeve and adjusting nuts operating on the sleeve, and means welded between the nuts for securing the nuts against movement.

1,373,709. WINDOW ATTACHMENT. WALTER STEWART BORLAND, Saskatoon, Saskatchewan, Canada. Filed Dec. 23, 1919. Serial No. 346,864. 7 Claims. (Cl. 20—40.)

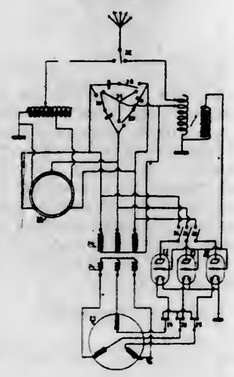
1. The combination with a window frame, of a box like window attachment having the inner side open and

the outer side and ends fitted with window sashes and jack screws carried by the inner side of the extension win-



dow and engageable with the top and bottom of the window frame and detachably securing the extension window to the window frame.

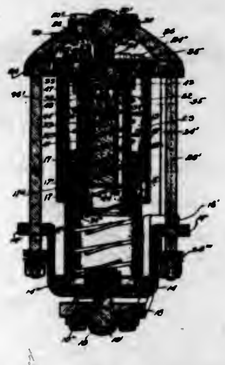
1,373,710. GENERATOR OF HIGH-FREQUENCY OSCILLATIONS FOR WIRELESS TELEGRAPHY. VICTOR JOSEPH FRANÇOIS BOUCHARDON, Lyon, France. Filed Oct. 24, 1919. Serial No. 333,116. 3 Claims. (Cl. 250—36.)



1. A device for generating high frequency electrical oscillations comprising a generator of polyphase currents, a step-up transformer, double anode tubes with cathodic rays of the audion type, a rotary spark apparatus, identical condensers their number being equal to that of the phases of said generator and connected on one hand each with one of the secondaries of the transformer and on the other hand with the tubes and the rotary spark apparatus, switches for connecting to the generator either the tubes with cathodic rays, or said rotary spark apparatus, and switches for connecting said condensers either in delta connection, spark working, or in star connection, working with tubes, the switching of the generator from the rotary spark to the tubes apparatus and inversely being effected while keeping to the same wave length.

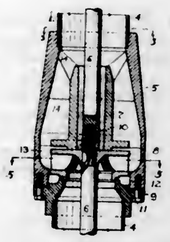
1,373,711. PNEUMATIC SPRING. ALEXANDER P. BOURNE, Barrington, R. I. Filed July 16, 1918. Serial No. 245,230. 36 Claims. (Cl. 267—50.)

1. An air spring having normally closed inlet and outlet for air, and means actuated by expansion of the spring to open the outlet, and by contraction to open the inlet; and a device intervening between said means and the moving parts of the spring, actuating said means and itself being actuated with the spring actuations, and com-



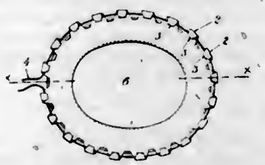
posed of means transmitting the impulses with less resilience than air.

1,373,712. DEEP-WELL PUMP. FRANK M. BUDLONG, San Jose, Calif. Filed Feb. 13, 1920. Serial No. 358,347. 2 Claims. (Cl. 253—199.)



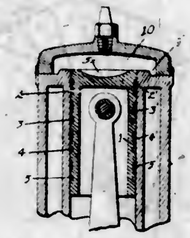
1. An extensible deep well pump comprising an outer tubular column consisting of a series of tubes, a pump inclosing casing having the upper of said tubes secured to the top thereof, a coupling member fixed to the bottom of said casing and having the next lower tube engaged therewith, said casing having a shaft bearing in the center thereof and water passages about said bearing through said casing, a sectional shaft rotatably mounted in said bearings and having the sections thereof screwed one into the other at the bottom of said bearings, and a pump fixed on the lower of said shaft sections immediately beneath the union between said sections and next beneath said bearing.

1,373,713. HAT-PROTECTOR. JEAN FRÉDÉRIC SCHWEIZER-CAILLAUX, Vincennes, France. Filed Oct. 31, 1919. Serial No. 334,692. 1 Claim. (Cl. 2—108.)



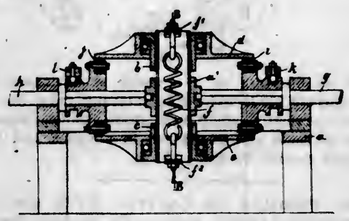
A hat cover of waterproof material, comprising a flexible cover body having tapering teeth formed at its outer edge, the ends of which teeth are folded down and secured to the cover so as to form loops, and a flexible member adapted to be inserted in said loops.

1,373,714. ENGINE-PISTON. JAMES W. CALTA, Platte, S. D. Filed May 19, 1919. Serial No. 298,180. 3 Claims. (Cl. 74—108.)



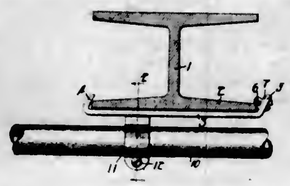
1. A piston for internal combustion engines including a body portion having a series of annular grooves in its exterior face and piston rings in said grooves, and annular tapering recesses in the exterior face of the piston, the tapering walls of the recesses gradually approaching the circumference of the piston body and terminating in and coinciding with one outer corner of said grooves.

1,373,715. CHANGE-SPEED DEVICE. CHARLES AMÉDÉE CAMBAY, Paris, France, assignor to Antoine Henri Theophile Bonnet and James Tiburce Felix Conti, Paris, France. Filed Apr. 12, 1920. Serial No. 373,362. 3 Claims. (Cl. 74—26.)



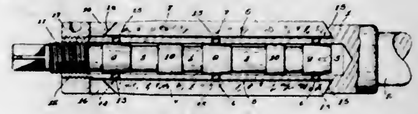
1. A change speed system containing in combination a driving shaft and a receiving shaft, two friction rollers keyed respectively upon the shafts, means for displacing the rollers along said shafts, a main body or frame, a hollow column supported by said frame, two sleeves sliding upon the column, friction plates mounted in ball bearings upon sleeves, and a retractile spring disposed within the column and tending to draw the sleeves together.

1,373,716. SUPPORT. JOSEPH DOTTL and HERBERT G. HART, Madison, Wis. Filed Aug. 2, 1919. Serial No. 314,966. 1 Claim. (Cl. 248—32.)



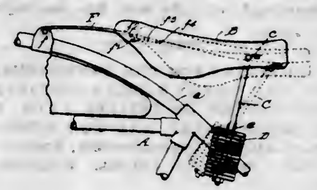
A hanger including a main member secured at one end to the corresponding edge portion of a flanged beam and extending transversely across said beam, the other end of said member being of channel cross section, a key element associated with said last named end and adapted to engage over the corresponding edge of the flange of the beam, and means for supporting a pipe or the like from said main member.

1,373,717. REAMER. HENNING ENLUND, Syracuse, N. Y. Filed May 16, 1919. Serial No. 297,521. 1 Claim. (Cl. 77—76.)



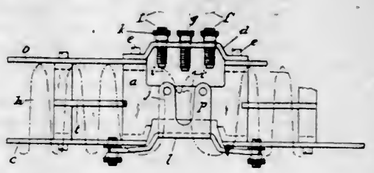
A reamer comprising a body having a lengthwise internal bore and lengthwise peripheral grooves, the bottoms of the grooves being formed with passages at intervals opening into the bore of the body, cutters mounted in the grooves and a retaining ring at one end of the body and coacting with the cutters to hold the same in the grooves, an expander extending into the bore of the body, a wall located in each passage and coacting with the expander and with the inner edge of the adjacent cutter and means for operating the expander and holding it in its adjusted position, substantially as and for the purpose described.

1,373,718. SADDLE. LEIGH R. EVANS, Rochester, N. Y., assignor to Cyclemotor Corporation, Rochester, N. Y. Filed Mar. 1, 1920. Serial No. 362,546. 12 Claims. (Cl. 208—100.)



1. The combination with a cycle frame, of a saddle mounted thereon, a spring operatively connected with the rear portion of said saddle and with said frame, and means for holding said saddle and said spring in different relative positions to vary the force exerted upon said spring by a weight on said saddle.

1,373,719. CROSSCUT-SAW GAGE. WILLIAM E. GIBBS, Portland, Oreg. Filed Nov. 23, 1917. Serial No. 203,640. 4 Claims. (Cl. 33—202.)

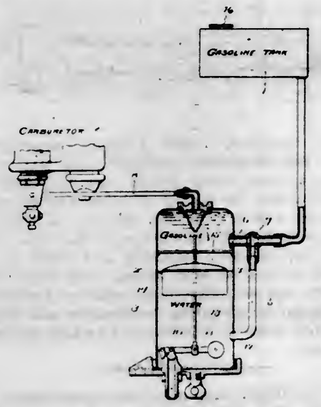


2. In a saw gage of the character described, the combination of a body piece, a gage plate, a pair of screw posts threaded into the body piece, each provided with a collar-like shoulder, the extremities of the gage plate bearing on said shoulders, clamping nuts threaded on the screw posts, said gage plate having a pendant web, and means for clamping said web to the body piece, thereby holding the gage plate rigid in the position to which adjusted.

1,373,720. PROCESS OF TREATING HYDROCARBONS. DANIEL BRAILEY GISH, Washington, D. C. Filed June 12, 1917. Serial No. 174,334. Renewed Apr. 22, 1920. Serial No. 375,899. 1 Claim. (Cl. 48—219.)

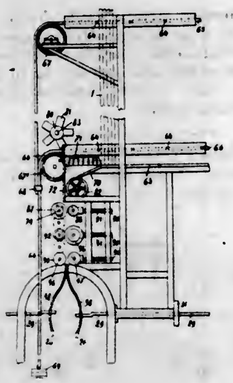
The process of supplying an explosive engine with a volatile liquid hydrocarbon consisting in providing a body

of water between the supply tank and the engine and passing the hydrocarbon through said water on the way to the engine, whereby the hydrocarbon is washed and all



foreign substances in suspension separated from the hydrocarbon and retained by the water, and whereby said hydrocarbon is caused to take up in suspension a certain amount of water and carry the same into the engine.

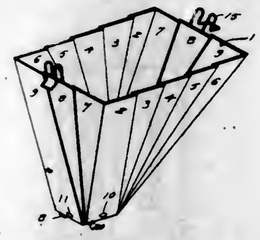
1,373,721. APPARATUS FOR THE TRANSFORMATION OF REEDS INTO WOVEN FABRICS SUITABLE FOR THE MANUFACTURE OF CEILING LATH-WORK, BASKETS, RECEPTACLES, AND THE LIKE. PAUL DE GUARDIA-CALMÈTES, Cayeux-sur-Mer, France. Filed Oct. 27, 1920. Serial No. 419,963. 8 Claims. (Cl. 144—182.)



1. An apparatus for the transformation of reeds into woven fabrics suitable for the manufacture of ceiling lath work, baskets, receptacles and the like, constituted by reed preparing devices located above the weaving loom; comprising a platform upon which the reeds are disposed vertically, means for separating and spacing in line the reeds, means for feeding the said reeds, means for splitting, opening and flattening the same, and a device for feeding directly the warp bands into the weaving loom.

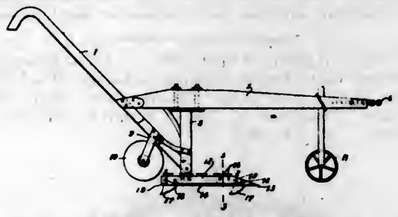
1,373,722. COLLAPSIBLE FUNNEL. ELMER E. GUSTAFSON, Sullivan, Mich. Filed May 14, 1920. Serial No. 381,387. 6 Claims. (Cl. 226—38.)

1. A funnel comprising a body including side and end walls, a plurality of plates constituting said walls, means pivotally connecting the plates of said walls together, and means formed on some of the plates of said walls and



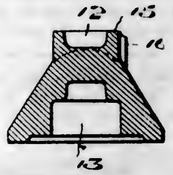
adapted to engage the other plates of said walls to limit the movement of the plates away from each other.

1,373,723. PLANT TOPPER AND CULTIVATOR. LEONARD G. HARDY, Salt Lake City, Utah. Filed Jan. 17, 1920. Serial No. 352,192. 3 Claims. (Cl. 55—107.)



1. The combination of a landside, a horizontally positioned cutting blade extending laterally from the landside, and vertically positioned guide blades depending from the landside and positioned in advance and to the rear of said cutting blades.

1,373,724. FORGING OR CASTING WITH GRIPPING AND DRIVING LUGS. CARL G. HEIBY, JOHN BURKAM, DAVID E. LINDQUIST, FRED L. RIGGIN, EBENEZER W. ALLEN, and RICHARD LAU, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich., a Corporation of Michigan. Filed Jan. 17, 1918. Serial No. 212,229. 2 Claims. (Cl. 29—148.2.)

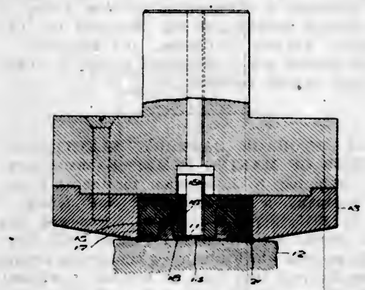


1. As a new article of manufacture, a blank for fuse caps and like articles, having a body portion of substantially cone-like formation, with a gripping surface of ring-like form extending from the small end of said body portion, said gripping surface having a centrally disposed depression or cavity, and a driving lug projecting laterally from the outer wall of said gripping surface.

1,373,725. METHOD OF PRODUCING FORGINGS. CARL G. HEIBY, JOHN BURKAM, DAVID E. LINDQUIST, FRED L. RIGGIN, EBENEZER W. ALLEN, and RICHARD LAU, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich., a Corporation of Michigan. Filed Jan. 17, 1918. Serial No. 212,230. 5 Claims. (Cl. 78—81.)

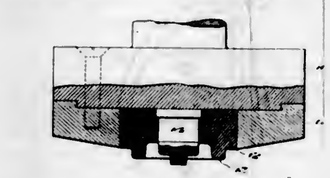
1. The method of producing forged blanks having hollow interiors which consists in forming centering means

on a suitable slug, positioning said slug by the centering means on a complementarily formed die, subjecting such



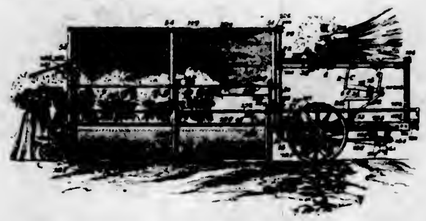
centered slug to the combined action of dies and a punch without forcing the punch through the slug, and there after trimming away the unpunched webs.

1,373,726. METHOD OF AND DIE FOR PRODUCING FORGINGS. CARL G. HEIBY, CHARLES A. HILL, and DAVID E. LINDQUIST, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich., a Corporation of Michigan. Filed Jan. 17, 1918. Serial No. 212,233. 14 Claims. (Cl. 78—81.)



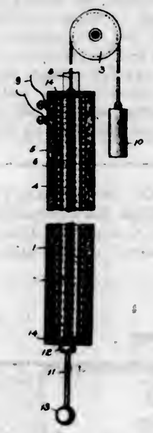
1. The method of producing a forged article free from surface impurities from a blank having an impure skin or outer surface, which consists in subjecting such blank to the action of forging dies to bring it to the required shape and simultaneously therewith forging off by die action the outer skin of the blank.

1,373,727. GRAIN SHEAF-SHOCKER. JACOB P. HIEBERT, Hillsboro, Kans., assignor to Hillsboro Shocker and Machine Co., Hillsboro, Kans., a Corporation of Kansas. Filed Aug. 7, 1919. Serial No. 315,922. 78 Claims. (Cl. 56—416.)



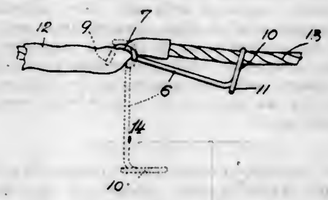
1. Instrumentalities in a sheaf shocker for automatically controlling shock forming mechanism by the weight of successive sheaves, comprising a shock compartment, instrumentalities for catching and automatically setting a sheaf at the entrance of the shock compartment, and instrumentalities automatically rendered active by the action of setting said sheaf for pushing it into said compartment.

1,373,728. DEVICE FOR SEVERING GLASS. HARRY F. HITNER, Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Feb. 5, 1920. Serial No. 356,396. 9 Claims. (Cl. 49—50.)



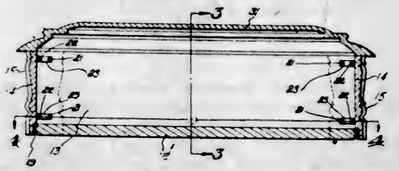
1. In combination in a glass cracking off device, a heating chamber, a flexible cracking off member mounted for movement into and out of the chamber, and means for heating the chamber.

1,373,729. CLOTHESPIN. ALFRED J. HOEHN, New York, N. Y. Filed July 31, 1920. Serial No. 400,370. 2 Claims. (Cl. 24—139.)



1. As a new article of manufacture, a clothes pin made of a single piece of wire and comprising a straight body portion, a clothes engaging hook formed at the one end of said body portion, said clothes engaging hook being in a plane substantially parallel to a plane through the center of said body portion, a line engaging hook formed at the other end of the said body portion, said line engaging hook being in a plane at right angles to the said body portion.

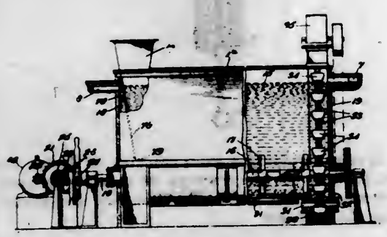
1,373,730. KNOCKDOWN BURIAL-CASKET. FREDERICK E. HOLLINS, Somerville, Mass. Filed Nov. 20, 1920. Serial No. 425,347. 5 Claims. (Cl. 27—2.)



1. A knock-down burial casket comprising an oblong bottom member, a pair of side members, a pair of end members, the longitudinal and transverse edges of the

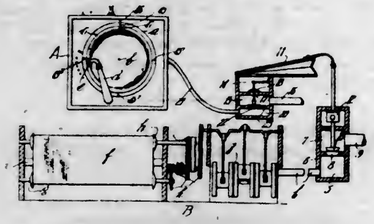
bottom member and the lower portions of the inner sides of the side and end members being provided with elements of separable interengaging means, permitting engagement of the lower portions of the side and end members with the longitudinal and transverse edges of the bottom member by horizontal sliding movements of the side and end members, to form a preliminary connection maintaining the side and end members perpendicular to the bottom members, and in position to form the body of a rectangular box, angular corner members formed to cover the corner portions of said body, and means operable from the interior of the body for clamping said corner members against the side and end members.

1,373,731. PROCESS OF EXTRACTING VALUABLE COMPONENTS FROM RAW MATERIALS. JOHN W. HORNSBY, Summit, N. J. Filed June 29, 1916. Serial No. 106,677. 1 Claim. (Cl. 23—13.)



The process of extracting a soluble salt from a raw material, carrying said salt and other ingredients, which consists in providing a mother liquor containing and adapted to be saturated with said other ingredients between the ranges of working temperatures, moving said material and mother liquor in opposite directions in contact with each other while energetically agitating the same to dissolve said salt, separating the solid and liquid and removing the liquid from a quiet zone remote from the agitated zone.

1,373,732. REPRODUCING INSTRUMENT AND ASSOCIATED MECHANISM. FREDERICK A. HOSCHKE, Springfield, Mass. Filed May 10, 1918. Serial No. 233,719. 6 Claims. (Cl. 84—4.)



1. In combination, a record propelling means, reproducing mechanism, indicating means permitting the record to be set relatively to the reproducing means so that reproductions commence after the record has been moved a predetermined distance, a second mechanism, and means independent of the first mechanism and its record for starting the second mechanism simultaneously with the reproductions of the first mechanism and after the first-named means has moved the record said distance.

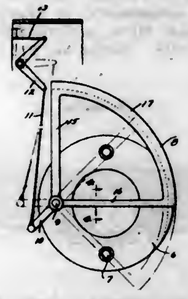
1,373,733. STORAGE-BATTERY ELECTRODE AND PROCESS OF MAKING SAME. HARRY CROSS HUBBELL, Irvington, N. J., assignor to Hubbell-Fuller Battery Company, a Corporation of New Jersey. Filed July 9, 1915, Serial No. 38,902. Renewed Aug. 13, 1920. Serial No. 403,301. 6 Claims. (Cl. 204—29.)

1. The process which comprises heating a nickel oxid with finely divided cadmium.

1,373,734. STORAGE-BATTERY ELECTRODE AND PROCESS OF MAKING SAME. HARRY CROSS HUBBELL, Irvington, N. J., assignor to Hubbell-Fuller Battery Company, a Corporation of New Jersey. Filed July [illegible] 1915, Serial No. 38,901. Renewed Aug. 13, 1920. Serial No. 403,302. 4 Claims. (Cl. 204—29.)

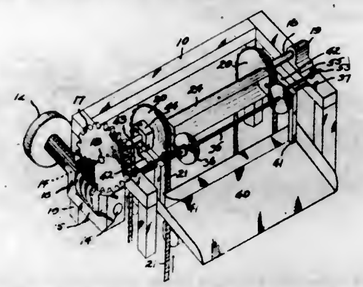
3. The process which comprises converting precipitated cobaltous hydrate into oxid by heating it without substantial exposure to the air, cooling it under the same conditions, mixing with a nickel material, tableting the mixture, and assembling same in a conducting container.

1,373,735. DRAFT APPLIANCE FOR LOCOMOTIVES. GEORGE J. HUESTIS, Belleville, Ontario, Canada. Filed Dec. 9, 1919. Serial No. 343,637. 5 Claims. (Cl. 162—8.)



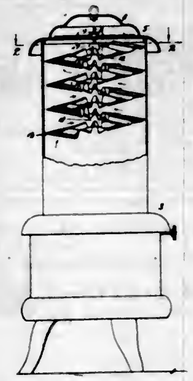
1. The combination with a locomotive smoke box, and an exhaust nozzle therein, of a movable deflector adapted to be positioned across the outer end of the nozzle, said deflector pivotally mounted and movable transversely across the outlet end of the exhaust nozzle.

1,373,736. WATER-HOIST. OTTO H. JAHNKE and FRANCIS L. ORR, Denver, Colo. Filed June 26, 1919. Serial No. 306,970. 5 Claims. (Cl. 193—6.)



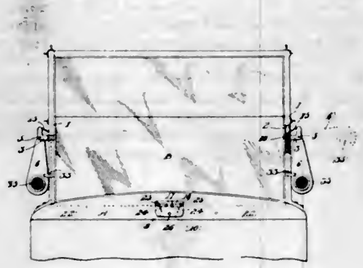
1. In a water hoist, sprockets, an endless conveyer passing thereover, buckets on said conveyer, and means positioned adjacent the said conveyer at one side thereof and projecting into the path of said buckets to engage the tops thereof to discharge the water therefrom, said means being laterally adjustable to withdraw them from the path of said buckets.

1,373,737. ATTACHMENT FOR STOVES. GEORGE FREDERICK JAMES and IVAN E. SMITH, New York, N. Y. Filed Aug. 14, 1920. Serial No. 403,557. 1 Claim. (Cl. 126—83.)



The combination with the body of an oil or gas stove of a draft retarding and deflecting device suspended in the combustion chamber the same being in annular volute form the spirals being radially fluted and the flutes diminishing in depth from the inner to the outer edge, substantially as shown and described.

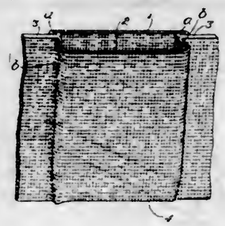
1,373,738. AUTOMOBILE-SIGNAL. MARYAN A. JASZEWSKI, Bethlehem, Pa. Filed Dec. 8, 1919. Serial No. 343,169. 4 Claims. (Cl. 116—52.)



1. A signal for automobiles comprising in combination the side rails of a wind shield frame, said side rails being hollow, a tensioned rod vertically movable in said side rails, a signal arm operatively connected to the upper end of said tensioned rod and means for lowering the rod against tension thereof for shifting the signal arm to a horizontal signaling position.

1,373,739. WOVEN POCKETED CARRIER. VICTOR H. JENNINGS, Worcester Mass., assignor, by mesne assignments, to Frank R. Batchelder, Worcester, Mass. Filed Aug. 8, 1918. Serial No. 248,872. 4 Claims. (Cl. 224—23.)

1. A woven pocketed carrier having the front and back walls of its pocket equal in width and united at the opposite sides of the pocket by being interwoven, and also having one of said walls permanently secured in plaited shape by applied fastening means and thereby shortened transversely, whereby the other wall is given fullness to



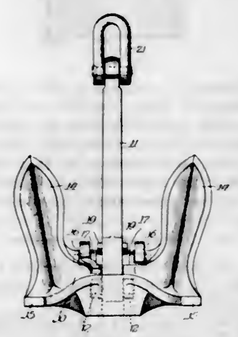
constitute a bulging body-portion adapted to expand across the breadth thereof to give the pocket a substantially rectangular cross-section.

1,373,740. ANCHOR. AP TREVOR JONES, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 1, 1920. Serial No. 378,030. 12 Claims. (Cl. 114—208.)



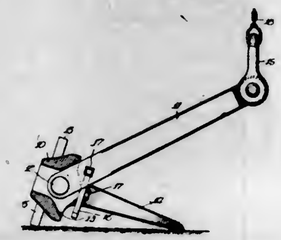
1. A stockless anchor including a head, a shank movably connected thereto, and means for locking said head and shank in a given relative position for creating a gripping leverage causing a quick gripping action of the anchor.

1,373,741. ANCHOR ARRANGEMENT. AP TREVOR JONES, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 1, 1920. Serial No. 378,031. 7 Claims. (Cl. 114—208.)



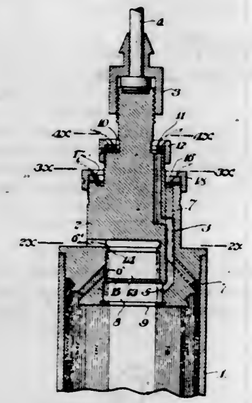
1. A stockless anchor including a head, a shank movably connected thereto, and means carried by said head cooperating with said shank for locking said head and shank in a given relative position for creating a gripping leverage causing a quick gripping action of the anchor.

1,373,742. ANCHOR MECHANISM. AP TREVOR JONES, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 1, 1920. Serial No. 378,032. 3 Claims. (Cl. 114—208.)



1. A stockless anchor including a head, a shank movably connected thereto having a locking notch therein, and a locking member carried by said head for coöperating with said locking notch for creating a gripping leverage locking the head and shank in a given relative position for causing a quick gripping action of the anchor.

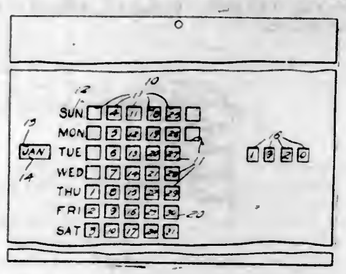
1,373,743. METHOD AND MECHANISM FOR CENTRIFUGALLY SEPARATING SUBSTANCES. LEO D. JONES, Philadelphia, Pa., assignor to The Sharples Specialty Company, West Chester, Pa., a Corporation of Delaware. Filed Sept. 4, 1920. Serial No. 408,336. 5 Claims. (Cl. 233—21.)



1. The method of separating three substances having different densities which consists in subjecting them to centrifugal force and controlling the distance of the contact surfaces of the centrifugally stratified substances from the center of revolution so that either of the contact surfaces of the intermediate substance may vary substantially without substantially varying its other contact surface.

1,373,744. CALENDAR. JOHN J. KELLY, Holyoke, Mass. Filed Feb. 18, 1920. Serial No. 359,519. 2 Claims. (Cl. 40—109.)

1. A calendar comprising a base provided with a group of openings for the exposure of the day designations of any given month arranged in vertical and horizontal rows, parallel rows of openings having day designations associated therewith, a day indicating slide mounted on the rear of the base and provided with a group of day indicating numerals arranged in vertical and horizontal rows to register with the group of openings in the base for exposure therethrough, said slide being movable on the base in line with the day designations, and concealing slides



mounted on the day indicating slide to cover surplus numerals thereof.

1,373,745. BUCKLE. GEORGE LARSON, Minneapolis, Minn. Filed June 11, 1917. Serial No. 174,036. 1 Claim. (Cl. 24—191.)



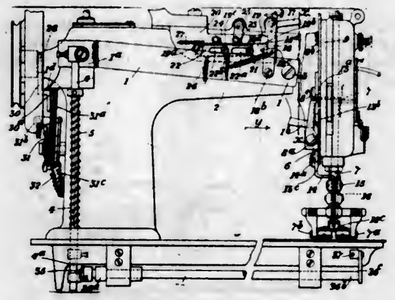
A belt buckle comprising a face plate having its longitudinal edges inwardly turned to form flanges on the rear face of the plate, a cross bar connecting the edges of the flanges at one end of the plate, there being an unobstructed space between said cross bar and said face plate, said face plate having means for connection with one end of a belt, a clamping plate having an angle portion at one end pivotally supported by the flanges of said face plate at the oposite end thereof from said cross bar, the free end of said clamping plate bearing on the belt when the buckle is in use and limiting the movement of the edge of said angle portion past the center of its pivot in said flange, the loose end of the belt being inserted between said cross bar and the other end of the belt and gripped between the angle portion of said clamping plate and face plate and released from said clamping plate by a pull on the belt that would normally tend to tighten it.

1,373,746. HANDHOLD-HANGER. HENRY G. LEWIS and WALTER S. MAYER, Philadelphia, Pa., assignors to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1920. Serial No. 355,750. 8 Claims. (Cl. 105—354.)



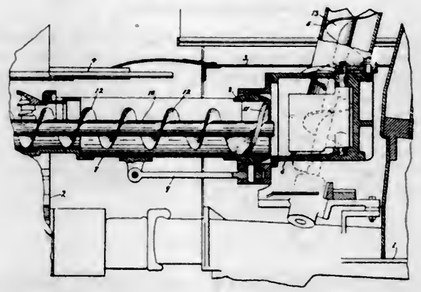
1. The combination with a bearing, of a resilient metal tension member supported by said bearing so as to restrain oscillatory movement thereof, and a tubular hand hold supported by said member

1,373,747. THREAD-CUTTING AND THREAD-END-HOLDING DEVICE FOR EMBROIDERY SEWING-MACHINES. JOHN LINDSAY, Lurgan, Ireland, assignor of one-third to William Henry Evans Brown and one-third to James Bell, Lurgan, Ireland. Filed May 13, 1918. Serial No. 234,279. 3 Claims. (Cl. 112—252.)
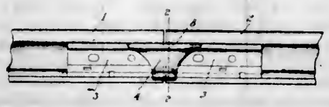


1. In or for sewing machines for doing embroidery or like work on cloth, cutting mechanism for cutting the upper and lower sewing threads, means connected with the pressure bar of the machine, for operating said upper thread cutting mechanism, means for operating said under thread cutting mechanism, and a pivotal catch and sliding member whereby the upper thread, after being cut, is held and prevented from being drawn out of the eye of the machine needle until several stitches have been made by the machine.

1,373,748. SCREW CONVEYER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed Aug. 1, 1918, Serial No. 247,762. Divided and this application filed Feb. 24, 1919. Serial No. 278,916. 2 Claims. (Cl. 193—13.)



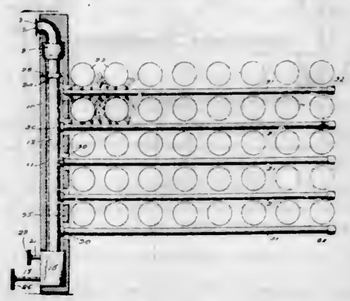
1. In a locomotive stoker, in combination, a fuel-transferring screw having its final turn of greater radius than the remainder of its turns, and fuel elevating screw means receiving from the transferring screw.

1,373,749. MANUFACTURE OF SPLICE-BARS FOR RAIL-JOINTS. RICHARD JOHNSON MCCOMB, Chicago, Ill., assignor to Q & C Company, New York, N. Y., a Corporation of Maine. Filed Dec. 16, 1920. Serial No. 431,114. 16 Claims. (Cl. 238—243.)



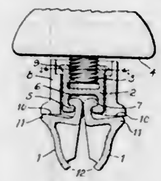
1. The herein described method for producing reinforced splice bars for rail joints which consists in forming a reinforcing enlargement of the cross sectional area of a standard rolled splice bar by welding additional metal thereon, substantially as described.

1,373,750. SOOT-BLOWER. WILLIAM M. MCNEILL, Rosiclare, Ill., assignor of one-half to Billie M. Sheffey, Rosiclare, Ill. Filed July 25, 1919. Serial No. 313,164. 5 Claims. (Cl. 122—392.)



1. In a device of the type described, a tubular member, a plurality of tubes having openings formed therein, said tubes communicating at one end with said tubular member, means for oscillating said tubular member, comprising a casing having an opening formed therein, an extension formed on the lower end of said tubular member extending through said opening, a gear secured to said extension, a shaft mounted within the casing provided with a gear meshing with the gear on said extension, and means for actuating said shaft and means for reciprocating said tubular member embodying a rack formed upon said extension and a shaft rotatable within said casing and provided with a gear meshing with said rack.

1,373,751. CONDUCTOR CLAMP AND SUPPORT. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 6, 1920. Serial No. 415,192. 17 Claims. (Cl. 191—43.)

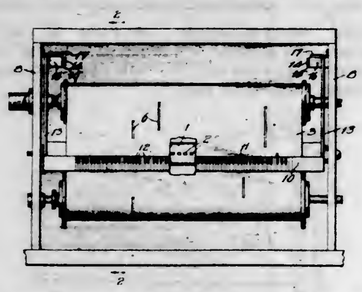


10. A wire clamp to be secured to a hanger to engage and support a conductor comprising clamping means to grip and hold the conductor, means to secure the clamping means to the hanger, unitary operating means slidably and rotatably mounted interposed between the hanger and the clamping means to engage the hanger and move the clamping means into engagement with the conductor.

1,373,752. INDICATOR FOR PLAYER-PIANOS AND SIMILAR INSTRUMENTS. CARL H. MAYER, Chicago, Ill. Filed Feb. 20, 1919. Serial No. 278,150. 3 Claims. (Cl. 84—169.)

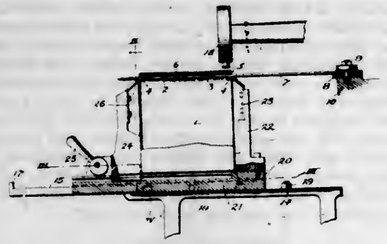
1. In a player piano, the combination of a roller box having side walls, a tracker board in said roller box for coöperation with a perforated sheet of music, a key designation bar adapted to be swung into position adjacent said tracker board, a pivot support on the end wall of said

roller box, a pivotal extension on said key designation bar having pivotal mounting on said pivot support, a plurality of flat detent surfaces on said pivotal extension and a leaf



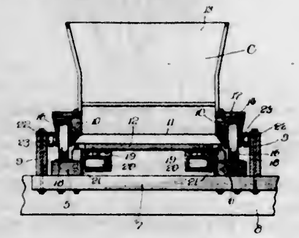
spring fixedly mounted and adapted to bear on said flat surfaces for retaining said key designation bar in its operative and inoperative positions.

1,373,753. BOX-STITCHING MACHINE. CHARLES C. MENGEL, Louisville, Ky. Filed July 9, 1919. Serial No. 309,625. 6 Claims. (Cl. 1—15.)



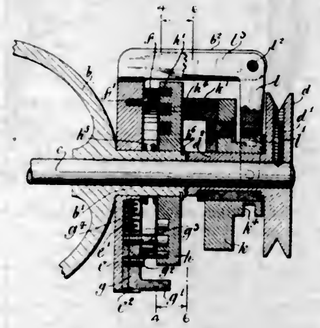
4. In a box stitching machine, the combination of a stitching mechanism; a thin bar anvil secured at one end to the frame of the machine and underlying the anvil; a table; a platform mounted for reciprocation on the table beneath the anvil; and a pair of relatively adjustable combined box clamps and anvil supporting members mounted on the platform.

1,373,754. PLEASURE-RAILWAY STRUCTURE. JOHN A. MILLER, Homewood, Ill. Filed Nov. 6, 1920. Serial No. 422,115. 1 Claim. (Cl. 104—246.)



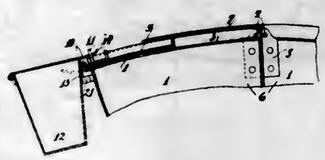
In pleasure railway structures of the class described, the combination of supporting frame work, rail structures mounted thereon, a vehicle, vehicle wheels and supporting axles therefor, said vehicle wheels engaging with the top sides of said rail structures, horizontal guard rollers journaled from the underside of said vehicle in position to engage with the inner sides of said rail structures to thereby limit the lateral movement of said vehicle while traveling over said rail structures, guard rollers journaled on the ends of said axles, supporting uprights along side the rail structures, and guard rails secured on said uprights in position to be engaged on their undersides by said guard rollers on the vehicle axles whereby the vertical displacement of said vehicle is confined to prevent said vehicle from leaving the rail structures.

1,373,755. STOPPING MECHANISM FOR SEWING-MACHINES. GEORGE E. MOLYNEUX, Bayonne, N. J. Filed Dec. 2, 1916. Serial No. 134,567. 14 Claims. (Cl. 192—116.)



1. In a stopping mechanism, the combination of a relatively stationary member, a rotatable member, a brake-ring carried by one of said members, the other of said members being formed with a coöperating brake-surface, said members being held normally with the brake-ring and the coöperating brake-surface in inoperative relation, means to move one of said members to place the brake-ring and brake-surface in operative relation, and means to actuate the brake-ring to exert a braking action on the brake-surface.

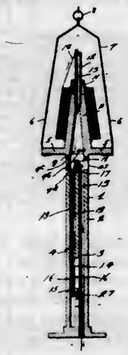
1,373,756. DEVICE FOR THE REMOVAL OF REFUSE. JACOB OCHSNER, Zurich, Switzerland. Filed Aug. 25, 1917. Serial No. 188,100. 2 Claims. (Cl. 220—98.)



1. The combination with a refuse receiving receptacle having a portion of its top open, of a sliding cover for said open portion of the receptacle, a refuse bucket pivotally suspended adjacent said opening, and means carried by the bucket and having a lost motion connection with said cover whereby when the bucket is turned about its pivot said cover is slid away from the opening and the contents of the bucket may be emptied into said receptacle through the opening in the top thereof.

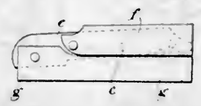
1,373,757. TWINE-HOLDER. AXEL E. OSTERBERG and GUSTAF OBERG, Norway, Mich. Filed Oct. 31, 1919. Serial No. 334,706. 2 Claims. (Cl. 242—143.)

2. A twine holder comprising a body member, means at the upper end of said body member for holding a ball of twine, a chamber in said body member, the lower end of said chamber being divided into two compartments, a roller centrally disposed in the chamber adjacent the upper ends of the two lower compartments, an aperture in one wall of the chamber and having a transversely disposed pin therein, the cord from said ball being adapted to feed downwardly into the aperture and outside of the pin thereby forming angular bends in the cord, said cord being formed in one of the chambers with a bight, a slidable weight carried by said bight, the free end of the cord passing over the roller and out of the body member



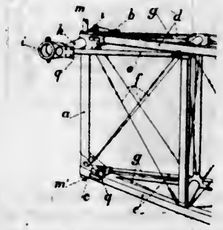
through the other chamber, said angular bending of the cord preventing the feeding of said cord until the weight has been raised substantially to the lower angular bend, at which point it will be maintained during the feeding of the cord.

1,373,758. COLLAPSIBLE HOLDER FOR SHARP-EDGED BLADES OR INSTRUMENTS. AUGUSTO NERY PLATERO, Montevideo, Uruguay. Filed Sept. 4, 1919. Serial No. 321,697. 2 Claims. (Cl. 30—10.)



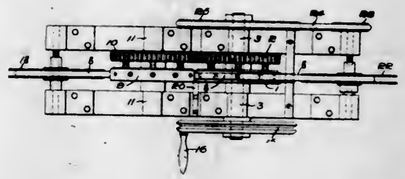
2. A device for holding and protecting a double-edged blade comprising a clamp adapted to hold a double-edged blade, a first cover member pivotally connected to said clamp, holding the same in locked position and adapted to protect one edge of a blade carried by said clamp and a second cover member pivotally connected to the clamp and movable into positions in alinement with and parallel to said clamps for forming a handle for the clamps and a protector for the other edge of the blade.

1,373,759. TAILPIECE FOR AEROPLANES. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Filed Dec. 19, 1918. Serial No. 267,545. 4 Claims. (Cl. 244—31.)



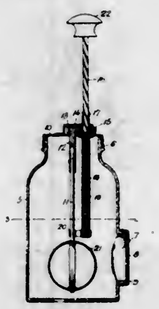
1. A tail-piece for aeroplanes comprising in combination an end upright, metal fittings fixed to the ends of said upright, these fittings being each made in one piece and having each two separate straight recesses independent from each other, each having the shape of the section of the longitudinals of the fuselage, said recess being arranged according to a V in which the ends of the upper and lower longitudinals of the fuselage may be engaged and stay wires connecting the fitting to the fuselage.

1,373,760. PERFORATING-MACHINE. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed June 12, 1916. Serial No. 103,084. 5 Claims. (Cl. 164—28.)



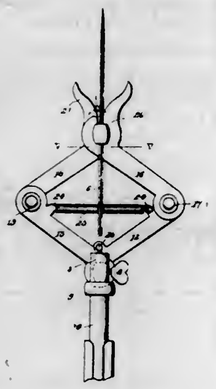
1. In a machine for perforating metallic strip material, the combination with a rotary punch wheel and a rotary die wheel mounted to rotate about parallel axes and with their surfaces closely adjacent but separated by a sufficient amount to receive between them the strip of metal to be perforated, said punch wheel having one or more radially fixed and projecting punch members fixed thereon and protruding above its surface, and said die wheel having radially arranged die openings flush with its cylindrical surface, the openings being spaced apart and of sufficient diameter to receive the punch members with a suitable clearance and said cylindrical surface affording an underlying support for the metal close to the line of shear thereby acting to give a shearing cut to the metal as the two wheels rotate, and said punch members protruding from the surface of the punch cylinder for a sufficient distance to clear the sheared metal from the cut but avoiding substantial wearing contact with the edges of the die opening, means positively to time the rotation of one of said wheels with relation to the other whereby the contact of the punch with the die opening is not relied upon to impart rotative movement from one to the other, and means for presenting the strip metal between the wheels to subject it to the shearing action of the dies.

1,373,761. BEATER AND MIXER. SAMUEL RABIN, New York, and JOHN M. LANG, Yonkers, N. Y. Filed Feb. 3, 1920. Serial No. 355,946. 3 Claims. (Cl. 259—128.)



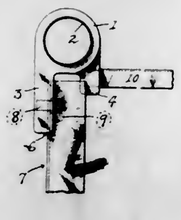
1. In a beater and mixer, the combination of a container having a perforated cap, a depending tube below the perforation, a stem penetrating the cap and having beaters at one end and a pinion at the other end, a plate on the upper side of the cap and securing the pinion, a pinion held against the cap by the plate and having a threaded perforation, a screw working within the threaded perforation and the tube, and a return spring in the tube.

1,373,762. WIRE-CUTTER. FRANK X. RATKOVIC, Etna, Pa. Filed Mar. 5, 1920. Serial No. 363,393. 2 Claims. (Cl. 42—90.)



1. In combination with a bayonet including a blade having a handle, a wire cutter attachment for said bayonet including a sleeve formed to slide onto the bayonet blade and to snugly fit the latter when assuming a position adjacent the handle of the bayonet, means carried by said sleeve to clamp the same adjacent the handle against movement on the blade, a pair of links having their inner ends pivoted to said sleeve to swing toward and away from each other in a plane at right angles to the plane of the bayonet blade, a pair of wire shears including non-crossed blade-carrying handles each having one end pivoted to the outer end of one of said links, a second sleeve slidably mounted upon the bayonet blade and having means pivotally connecting said handles of the wire shears, whereby rearward movement of the second-named sleeve on and relative to the bayonet blade will cause movement of the cutting blades of the shears toward each other for cutting a wire disposed therebetween, and a tension spring extending between and connected to said links for swinging the latter forwardly toward each other, whereby the second named sleeve is yieldably maintained in a forward position with the cutting blades open.

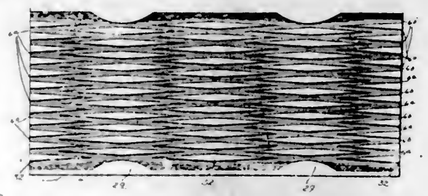
1,373,763. METAL BED CONSTRUCTION. ROY F. REDDING, Evansville, Ind. Filed July 8, 1920. Serial No. 394,754. 4 Claims. (Cl. 5—55.)



1. Metal bed construction comprising side-rails, a jaw secured to posts disposed at each corner of the bed, an arm extending from said jaw, a lug projecting from said jaw opposite said arm adapted to support said rails, and means for detachably securing said rails to said arm.

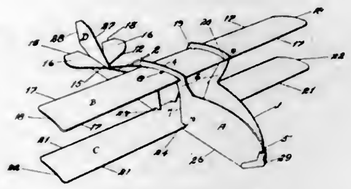
1,373,764. POWER-TRANSMISSION APPLIANCE FOR PUMPS AND COMPRESSORS. PATRICK J. ROONEY, New Rochelle, N. Y. Filed Feb. 16, 1920. Serial No. 358,995. 10 Claims. (Cl. 74—41.)

1. In a power transmission appliance for pumps and compressors, in combination, a hollow cylinder with a plurality of helical grooves in the inner surface thereof, a plurality of ribbed cylindrical segments adapted to seat in the said grooves, a shaft to be reciprocated, means for connecting the said shaft to the said ribbed segments, means for preventing the rotation of the said segments and the said shaft to be reciprocated, means for changing the direction of slope of the said ribs at the point of de-



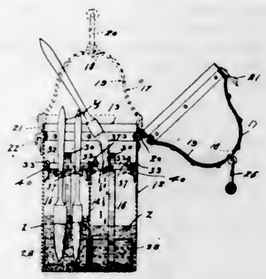
parture of the said segments from one set of helical grooves and of entry into another set of helical grooves of opposite slope, a rotary motor, a coupling between the said motor and the said cylinder, connective means between the said reciprocating shaft and the instrument to be operated, bearings and lubricating means, substantially as described.

1,373,765. AMUSEMENT DEVICE. JOHN M. RUSSELL, San Francisco, Calif. Filed June 21, 1920. Serial No. 390—444. 10 Claims. (Cl. 244—12.)



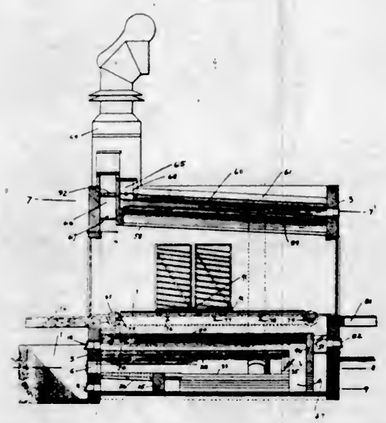
1. A device of the described class comprising a fuselage formed of a single piece of sheet material, plane supporting struts integral with the side walls thereof, horizontal direction controlling rudders integral with the fuselage, sustaining planes removably connected with the fuselage through said struts and a balancing weight on the forward end of the fuselage.

1,373,766. PAINTBRUSH CARRYING AND PRESERVING CASE. OSCAR C. SATHER, Minneapolis, Minn. Filed Sept. 30, 1920. Serial No. 413,791. 4 Claims. (Cl. 91—63.)



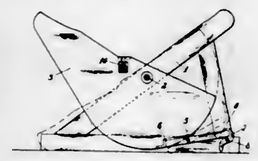
1. A paint brush container having a multiplicity of compartments, trays detachably seated in said compartments, and brush holders applied to said container and arranged to suspend brushes within the respective compartments above the underlying trays, said trays having upstanding bails with transverse upper portions that afford brush scrapers.

1,373,767. DRIER. WILLIAM F. SCHALLER, San Francisco, Calif., assignor of one-third to Elsie Schaller and one-third to Irma Helen Schaller, San Francisco, Calif. Filed Sept. 11, 1918. Serial No. 253,628. 5 Claims. (Cl. 34—46.)



2. In an apparatus of the class described, a drier having a hot air chamber surrounding three walls of the dry chamber, a fire chamber below the air chamber, flues leading from the fire chamber for the products of combustion, flues for supplying fresh air to the dry chamber and for heating it, a downwardly extending flue at one end of the dry chamber with an opening thereinto at the lower portion thereof for mixing the incoming air prior to its passage into the dry chamber, and a flue at the opposite end of the dry chamber for the escape of the heated air.

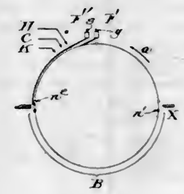
1,373,768. COLLAPSIBLE LIFEBOAT-CHOCK. ANE PIETER SCHAT, Utrecht, Netherlands. Filed June 12, 1920. Serial No. 388,528. 12 Claims. (Cl. 9—22.)



1. A lifeboat chock comprising two members for supporting the boat, one of said members being stationary and the other member being pivoted thereto; a stop on said pivoted member of the chock; a journaled bar disposed tangentially to the path of said stop and having its inner end adapted to come into abutting engagement with said stop to form a lock for the pivoted member of the chock, and to cause the compression exerted on the end of said bar to pass substantially longitudinally through said bar to the journal thereof; and means for tripping said tangential bar to unlock the pivoted member of the chock.

1,373,769. ART OF KNITTING REINFORCED FABRICS. ROBERT W. SCOTT, Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated, a Corporation of Massachusetts. Filed Sept. 11, 1916. Serial No. 119,331. 11 Claims. (Cl. 66—12.)

1. The art of knitting fabrics having areas reinforced by forming parts of courses containing a splicing yarn and a body yarn interknit together comprising as a step severing the splicing yarn between adjacent places for



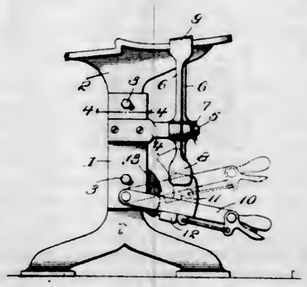
new loops in predetermined wales of the fabric during formation of said loops and of the fabric.

1,373,770. MECHANISM FOR KNITTING REINFORCED FABRICS. ROBERT W. SCOTT, New York, N. Y., assignor, by mesne assignments, to Scott & Williams, Incorporated, a Corporation of Massachusetts. Original application filed Sept. 11, 1916. Serial No. 119,331. Divided and this application filed June 29, 1917. Serial No. 177,702. 25 Claims. (Cl. 66—12.)



8 A knitting machine having therein a series of needles and means for knitting on said needles and yarn severing means acting to sever a yarn between adjacent needles of said series and substantially in the plane of the fabric.

1,373,771. SHOE-HOLDING DEVICE. EUGENE F. SHARKOFF, Washington, D. C. Filed Mar. 27, 1920. Serial No. 369,360. 7 Claims. (Cl. 15—58.)



1. A shoe holding device comprising a member adapted to be disposed on a shoe standard, shoe clamping means on said member and actuating mechanism for said means, independently disposed on the member.

1,373,772. FLEXIBLE SPINDLE-COUPLING. DAVID TOWNSEND SHARPLES, West Chester, Pa. Filed Oct. 3, 1919. Serial No. 328,120. 7 Claims. (Cl. 64—106.)

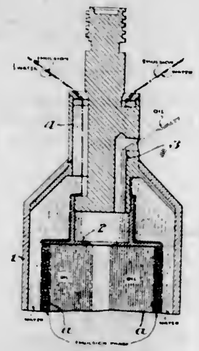
1. The combination of a suspended spindle having a depending bearing ball, a bowl provided with a concave

bearing engaging said ball, and means comprising a concave bearing connecting said ball and concave bearing



first named, whereby said bowl is connected flexibly with said spindle.

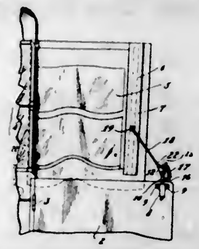
1,373,773. METHOD OF RESOLVING EMULSIONS. PHILIP T. SHARPLES, St. Davids, Pa. Filed Oct. 21, 1918. Serial No. 259,107. 9 Claims. (Cl. 196—25.)



1. The method of treating an emulsion comprising three phases which consists in centrifuging the same so as to effect separation with the discharge of the lightest phase separately from the heavier phases, retarding the discharge of said lightest phase so as to hold a relatively large volume thereof in the centrifuge, and subjecting said volume to the highest centrifugal force practicable without discharging a substantial amount thereof with said heavier phases.

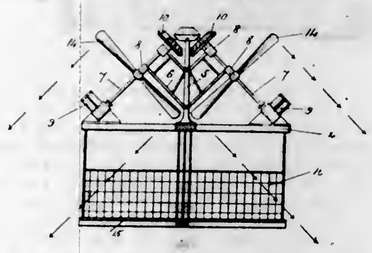
1,373,774. DOOR-IRON. FRANK J. SHIVELY, Canton, Ohio. Filed Mar. 6, 1920. Serial No. 363,654. 3 Claims. (Cl. 296—139.)

1. A door iron comprising a keeper adapted to be connected to a vehicle door, a bolt adapted to be normally seated in said keeper, an arm pivotally connected to said bolt and arranged to be pivotally connected to the edge



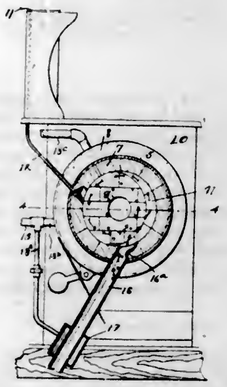
of a door curtain and a spring connecting said bolt and said arm to hold the curtain taut.

1,373,775. HELICOPTER. WALTER TAFT, Wilmington, N. C. Filed Aug. 20, 1920. Serial No. 404,784. 7 Claims. (Cl. 244—19.)



7. In a helicopter, a frame, pairs of propellers journaled in the frame and arranged symmetrically around a normally vertical axis with their axes inclined thereto, means for revolving each alternate pair of propellers in a different direction from the remaining pairs, and a support for the aviator suspended from the said frame and arranged in the central space between the blast currents of the propellers.

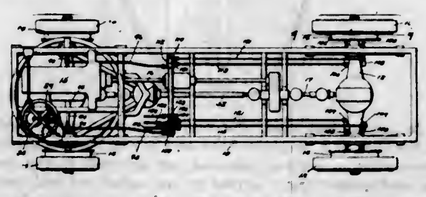
1,373,776. COAL-DUST FURNACE. JOHN TAYLOR, Salt Lake City, Utah. Filed June 6, 1919. Serial No. 302,330. 2 Claims. (Cl. 110—28.)



1. In a device of the character described, a substantially circular combustion chamber the axis of which is horizontally disposed, a conductor for the products of combustion leading from the rear of said chamber and materially

smaller in diameter than said combustion chamber, a flue disposed at right angles to said conduit and a pipe adapted to carry air and powdered fuel, said pipe leading through the side wall of the combustion chamber adjacent the front end thereof and discharging tangentially thereinto.

1,373,777. MOTOR-TRUCK STEERING-GEAR. DANIEL T. TIMBERLAKE, St. Louis, Mo., assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo., a Corporation of Missouri. Filed Oct. 26, 1918. Serial No. 259,743. 1 Claim. (Cl. 180—49.)



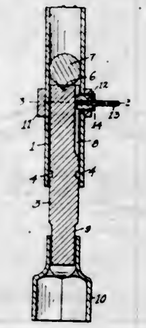
In a motor truck provided with a main frame, a ring positioned beneath the frame, a second ring provided with teeth on its inner face and adapted to revolve beneath the first ring, anti-friction bearings between the rings, a frame carried by the second ring, an axle and wheels carried by said frame, a laterally projecting bracket secured to said frame, a gear housing revolubly mounted in said bracket, driving gears in said housing, driving connections between said gears and front axle, a pinion meshing with said teeth of the second ring, a shaft adjacent to the pinion, a worm mounted thereon, and a substantially vertical steering staff for rotating said shaft.

1,373,778. BUSHING. ERNEST E. TOMPKINS, Philadelphia, Pa. Filed Mar. 31, 1919. Serial No. 286,290. 3 Claims. (Cl. 85—32.)



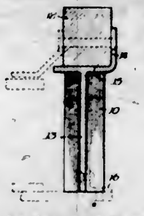
1. A bushing comprising an internally threaded cylinder, and longitudinally extending fingers arranged outwardly of and near the cylinder in a surrounding group, said fingers being secured to the cylinder and twisted upon their longitudinal axes for forming spirals.

1,373,779. RATCHET SOCKET-WRENCH. CHARLES O. TOOKER, Richmond, Ind., assignor of one-half to Roy C. Fry, Richmond, Ind. Filed Nov. 29, 1920. Serial No. 427,113. 1 Claim. (Cl. 81—60.)



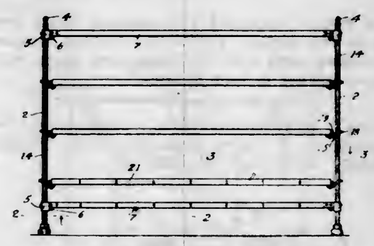
A ratchet wrench comprising a tubular body, a crossbar for turning the body, a stem rotatably mounted in the lower portion of the body and projecting downward therefrom, a ball secured in the body forming a bearing for said stem, means for retaining the stem in place in the body, there being channels formed in the periphery of the upper portion of the stem and extending longitudinally thereof, a collar surrounding the body and located below said ball bearing, a dog slidable in and out in an aperture formed through the collar and the wall of the body, a spring carrying said dog, means for securing the spring to the collar, and means for manually turning the dog to reverse the action of the ratchet connection of the dog with said grooves in the stem, all substantially as shown and described.

1,373,780. DRAFT-ARM. WILLIAM S. TROWBRIDGE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed June 16, 1919. Serial No. 304,579. 11 Claims. (Cl. 105—420.)



1. A draft arm having a web and a sill flange, and means whereby a draw bar pocket is formed on the inner side of said web whether the arm is used with said flange on the inner or outer side of a center sill.

1,373,781. DISPLAY-RACK. CHARLES WAGNER, Minneapolis, Minn. Filed July 22, 1918. Serial No. 246,142. 2 Claims. (Cl. 211—14.)

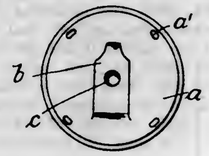


1. A display rack comprising upright posts having means for holding them in parallel relation and provided with notches at intervals therein, plates having angular portions provided with openings to receive said posts and lugs formed on one edge of said openings to enter said notches, the opposite edges of said openings bearing on the opposite sides of the posts to support said plates in a horizontal position, cross bars secured to said plates and spaced from said posts to allow said plates to be tilted sufficiently to disengage their lugs from the notches in said posts, and display racks seated upon said cross bars.

1,373,782. FASTENING DEVICE. CHARLES WEST, London, England. Filed Mar. 3, 1920. Serial No. 363,075. 5 Claims. (Cl. 24—224.)

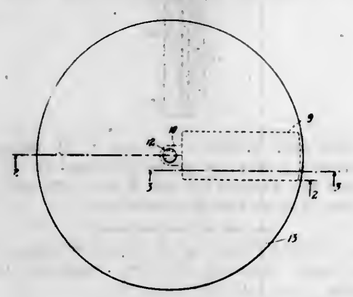
1. A fastening device of the type described consisting of two members each formed from a single piece of material, one of said members constituting a bridge portion comprising a plate having raised centrally thereon a bridge, said bridge extending above the general level of the plate, and formed of restricted width at at lease one end and a second member constituting a receptive portion comprising a plate having raised thereon two upwardly and inwardly projecting sides spaced apart to receive the bridge of the other member the tongue located between

the projecting sides having a central recess adapted when the parts are engaged with one another to receive a bead



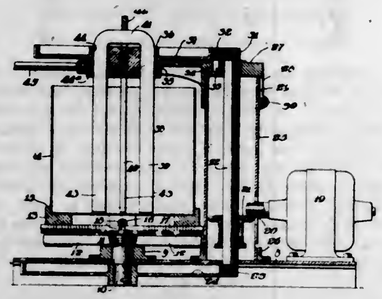
pressed out centrally of the bridge portion to prevent self disengagement, for the purposes set forth.

1,373,783. SELF-LUMINOUS WRITING AND READING DEVICE. PAUL M. WILLIS, Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 17, 1917. Serial No. 202,608. 6 Claims. (Cl. 240—1.)



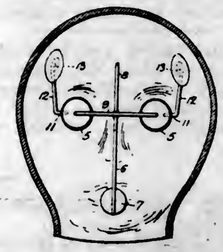
1. A device comprising a transparent plate with recesses in one surface, a reflecting backing cemented to said recessed surface of the transparent plate, and self-luminous powder in said recesses.

1,373,784. MIXING-MACHINE. CLARENCE G. WYATT, Camden, N. J. Filed Sept. 25, 1919. Serial No. 326,267. 6 Claims. (Cl. 259—84.)



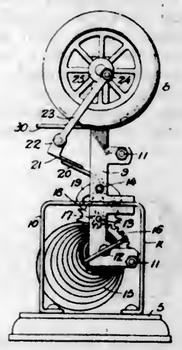
1. A mixing machine including means for supporting a vessel in which material to be mixed is placed; a supporting structure; an arm on said supporting structure and adapted to be moved over and away from said vessel; movable means on said arm; and a mixing device freely suspended from said latter movable means into said vessel and having a portion resting on said moving means, said portion being adapted to be manually grasped and lifted so as to move said mixing device out of the vessel without raising said arm and to permit said arm to be moved in a substantially horizontal path from over said vessel; substantially as described.

1,373,785. MECHANICAL EYES. DAVID ZAIDEN, New York, N. Y. Filed Oct. 13, 1919. Serial No. 330,329. 1 Claim. (Cl. 46—40.)



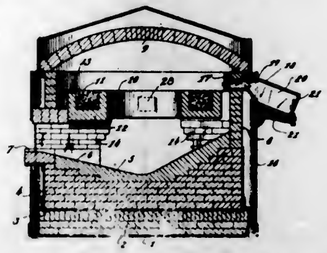
In mechanical eyes, the combination of eyes carried at the ends of a horizontal bar and having sockets at their outer edges, a vertical resilient rod attached to the cross bar and comprising a spring at its upper end and carrying a muffled weight at its lower end, and hooks adapted to enter the sockets and be fastened to the sides of the interior of a doll's head.

1,373,786. MECHANICAL MOTOR. DAVID ZAIDEN, New York, N. Y. Filed Oct. 13, 1919. Serial No. 330,330. 2 Claims. (Cl. 185—46.)



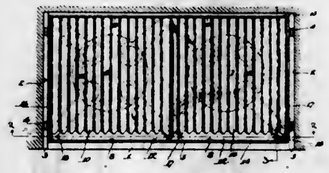
1. In a mechanical motor, the combination of power means, a gear wheel driven by the latter, a shaft with a pinion to mesh with the gear wheel, an escapement wheel on the shaft, an escapement dog, an arm projecting from the upper side of the dog, a fly wheel, a pitman connecting the arm and the fly wheel, and a flexible brake adapted to operate on the shaft of the fly wheel.

1,373,787. MELTING-FURNACE. THADDEUS F. BAILY and FRANK T. COPE, Alliance, Ohio, assignors to The Electric Furnace Company, Alliance, Ohio, a Corporation of Ohio. Filed Feb 16, 1920. Serial No. 359,090. 12 Claims. (Cl. 263—12.)



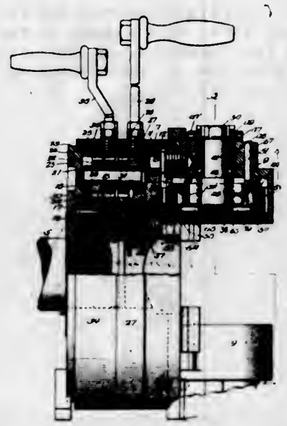
12. A brass melting furnace and a condenser communicating with the upper portion of the heating chamber thereof, the condenser provided with an inclined neck communicating with the heating chamber near the hearth of the furnace.

1,373,788. GRID OR GRILL. HENRY PRICE BALL, Brooklyn, N. Y., assignor to S. Sternau & Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1920. Serial No. 410,441. 10 Claims. (Cl. 53—5.)



1. A device of the character described, comprising a relatively thin plate adapted to be positioned above the flame of a source of heat, that portion of the plate directly above the flame being of relatively small area as compared to the area of the plate, there being a portion of the plate thicker than the major portion thereof, said thickened portion adapted to be in vertical alinement with the source of heat.

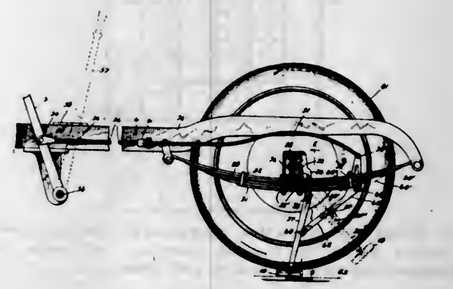
1,373,789. REVOLVING-JAW CHUCK. WENDELL A. BARKER, Elkhart, Ind. Filed Nov. 19, 1919. Serial No. 339,080. 7 Claims. (Cl. 279—5.)



1. In a chuck of the character described, the combination of a rotatable chuck body, a radially movable jaw housing mounted on said chuck body, a rotatable jaw mounted in said housing and formed with an annular row of teeth on its outer side, a locking member for said jaw slidably mounted in said housing and formed with an annular row of teeth movable into and out of locking engagement with the teeth of said jaw, a spring urging said locking member into locking engagement with said jaw, a rotatable member mounted in said housing and serving when turned in one direction to retract said locking member and when turned in the opposite direction to index said jaw to a new position, and manually operable means mounted on said chuck body for actuating said rotatable member in both directions.

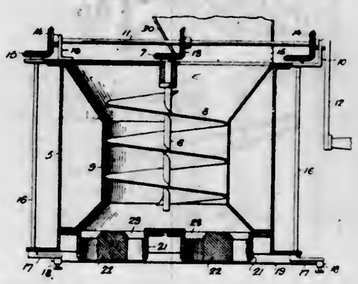
1,373,790. POWER-TRANSMISSION DEVICE. JOHN B. BECKER, New York, N. Y. Filed Aug. 5, 1919. Serial No. 315,433. 14 Claims. (Cl. 180—1.)

11. In a vehicle moving device, in combination, means for revolubly supporting two series of revoluble fluted rollers; a series of revoluble fluted conical rollers extending beyond the supporting means; a second series of revoluble fluted conical rollers abutting upon the first series of rollers and extending beyond the supporting means, the flutings of the two series of rollers being in alinement at the line of abutment, the axes of the two series of rollers being greater than 0° with respect to each other;



a vehicle; means for attaching the device to the vehicle, means whereby the device may be situated between the wheels of the vehicle and the road surface and removed therefrom, and means whereby the revolution of a vehicle's wheels resting upon the rollers will cause a movement of the device and the vehicle in a direction at variance with the direction of rotation of the vehicle's wheels.

1,373,791. DOUGH FORMING AND CUTTING MACHINE. CHARLES O. BODE, New York, N. Y. Filed Feb. 3, 1920. Serial No. 355,895. 2 Claims. (Cl. 107—14.)

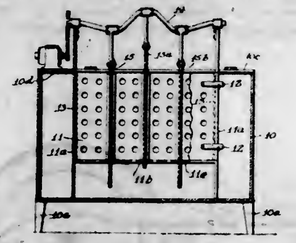


1. In a dough former and cutter, the combination of a box having a contracted passage-way, a hopper at the top of the passage-way, a flaring lower end to the passage-way, a feeding screw in the passage-way, a plurality of outlets for the flaring lower end, a knife common to all the openings and adapted to cut the dough leaving the outlets, gearing operating the screw and the knife, and a handle above the box to actuate the gearing.

1,373,792. WASHING-MACHINE. MICHAEL BOGRE, Detroit, Mich. Filed Mar. 13, 1920. Serial No. 365,549. 4 Claims. (Cl. 68—20.)

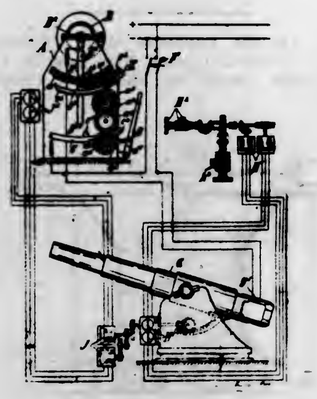
1. A washing machine comprising a casing for the washing fluid, an inner container for the materials to be washed, said container being supported within the casing and having its bottom spaced from the casing bottom, and means for subjecting the material to rubbing action, said means including a plurality of rubbing surfaces movable

in planes parallel to each other and operative to divide the container into compartments of constant dimensions



to retain the respective compartment contents independent during the washing operation, and means for reciprocating such surfaces in such planes.

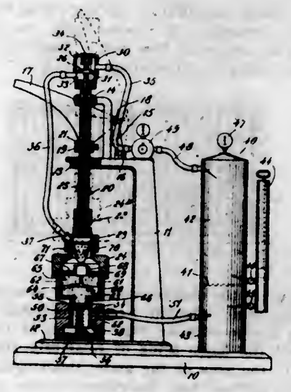
1,373,793. FIRE-CONTROL APPARATUS FOR NAVAL GUNS. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 406,073. 4 Claims. (Cl. 89—41.)



1. Fire control apparatus of the class described which comprises a sighting device, a stabilizing device for said sighting means, a pair of marks adjustable to correspond to the angle of rolling of a ship, a pair of contact devices for closing a firing circuit, one of said marks and one of said contact devices being rigidly connected to the sighting means and the other mark and contact device being operatively connected together and means for adjusting said mark and contact device.

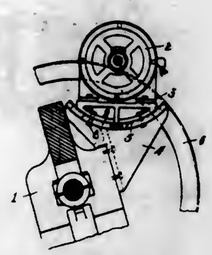
1,373,794. CASTING-MACHINE. JOHN EDWARD BURNS, Flushing, N. Y. Filed July 2, 1919. Serial No. 308,285. 5 Claims. (Cl. 22—69.)

1. In a casting machine, the combination of a molding flask open at opposite ends, a source of compressed air, a hollow plunger cap adapted to seal the top of the flask, an inlet valve for admitting air to the plunger cap, means for withdrawing air from the bottom of the flask, an outlet valve for controlling said air withdrawing means, and movable means for first bringing the said flask and cap together, said means being arranged to have a further



movement in the same direction imparted to it for actuating the inlet valve, and a still further movement for actuating the outlet valve.

1,373,795. ADJUSTABLE MOTOR-MOUNT. ARTHUR A. BYERLEIN, Toledo, Ohio, assignor to The Toledo Machine & Tool Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 20, 1920. Serial No. 411,523. 3 Claims. (Cl. 172—36.)

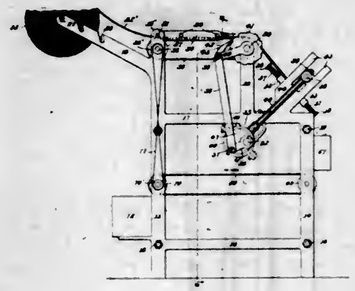


1. In combination, a tiltable support, a bracket carried by the support and having a concaved seat on its top, a motor having its frame base provided with a curved bottom for seating in the concavity of the bracket and for adjustment lengthwise thereof to vary the position of the motor relative to the bracket, a pinion driven by the motor shaft, the curvature of the bracket seat and motor bottom being concentric to the axis of the pinion, and means for adjustably securing the motor base to the bracket.

1,373,796. DOUGH-CUTTING MACHINE. PAUL CARDONE, GIACOMO FUMAGALLI, and CARMINE SURICO, New York, N. Y. Filed Dec. 2, 1919. Serial No. 341,919. 9 Claims. (Cl. 107—8.)

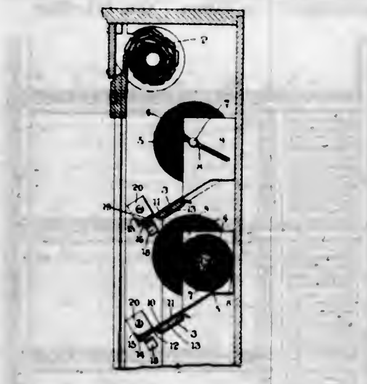
2. A dough cutting machine of the class described comprising a frame, a forming plate carried thereby and having a plurality of openings therein, means for progressively feeding a dough strip over the forming plate, a punching die coöperating with said forming plate openings, collecting means for the punched noodles, collecting means for the punched sheet of dough, means projecting into the forming plate openings through the side walls

thereof to prevent the complete passage of a piece of punched dough through the openings in the forming plate



when initially received therein, and means for operating the last named means extending between the forming plate and the power shaft.

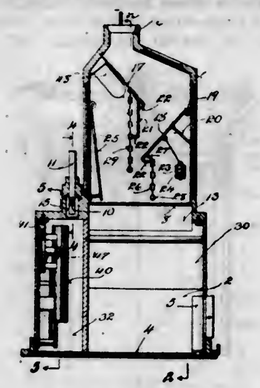
1,373,797. TICKET-CASE. JOHN J. CARR, Yonkers, N. Y. Filed Sept. 6, 1917. Serial No. 189,076. 8 Claims. (Cl. 211—31.)



2. A device of the character described comprising, a holder for a strip of tickets, said strip being provided with slots intermediate the successive tickets, a dispenser for the tickets, and a spring actuated finger located behind the dispenser and normally passing through one of said slots for arresting the movement of the strip and facilitating the removal of a ticket therefrom, the end of the said finger normally projecting in front of the dispenser so that, in the natural act of placing the operator's thumb upon the ticket to withdraw it from the dispenser, the thumb will engage the said projecting end of the finger and temporarily depress it for permitting the withdrawal of a ticket.

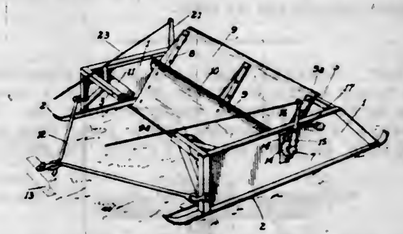
1,373,798. FARE-BOX. ANTON J. CHMURSKI, Milwaukee, Wis., assignor of one-half to Frank Regis, Milwaukee, Wis. Filed Apr. 5, 1920. Serial No. 371,405. 2 Claims. (Cl. 232—7.)

2. In a receptacle of the class described, a receiving compartment having an article inlet, a storage compartment below the receiving compartment, a partition plate separating the compartments, means for moving the partition to open position when the receptacle is in normal location, and a pusher plate carried by the partition plate



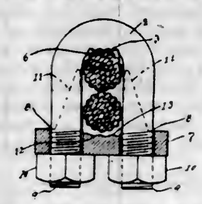
for engagement with the articles in the storage compartment to pack the same when the partition plate is moved to open position.

1,373,799. REVOLVING SELF-DUMPING LEVELER. JOHN M. CONLEY, Stockton, Calif. Filed Jan. 10, 1920. Serial No. 350,563. 2 Claims. (Cl. 37—42.)



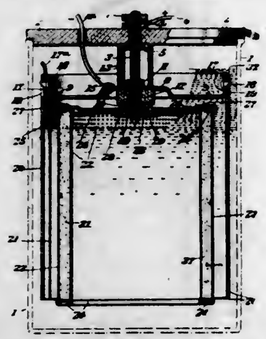
1. A scraper comprising a frame adapted to be drawn by a tractor, a transverse shaft turnably mounted in the frame but normally held against turning, a pair of oppositely disposed scraper plates secured to the shaft, one at a time being adapted to rest adjacent the ground, means controllable at will for permitting the shaft to turn whereby the scraper will automatically upset with the forward movement of the tractor, and means for then turning the shaft in the same direction, to position the other scraper plate for loading.

1,373,800. ROPE-CLAMP. OLIVER CROSBY, St. Paul, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a Partnership. Filed May 26, 1919. Serial No. 299,684. 5 Claims. (Cl. 24—135.)



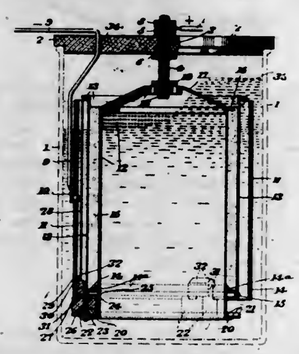
4. A rope clamp comprising a U-shaped bolt, a block slidable on the arms thereof, clamping nuts for the arms of said bolt, the curved middle portion of said bolt having a surface of greater width than the normal diameter of the bolt, said surface being formed by the pressure of a die thereon, the rope or cable to be clamped being held between said surface and said block.

1,373,801. BATTERY. EDWARD M. DEEMS, Forest Hills, N. Y., and LE ROY W. WILLIS, Hoboken, N. J., assignors to Eastern Signal & Supply Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 31, 1919. Serial No. 334,781. 6 Claims. (Cl. 204—29.)



1. A primary battery comprising a jar, a removable jar cover, a terminal member held to tue jar cover and depending within the jar, a second terminal member, means for supporting the second terminal member within the jar on the other terminal member, and independently removable negative and positive elements suspended within the jar from said terminal members and detachable therefrom without disturbing the connection between the terminal members and jar cover.

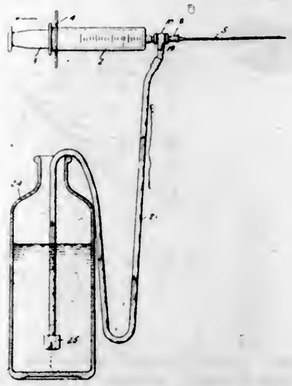
1,373,802. BATTERY. EDWARD M. DEEMS, Forest Hills, N. Y., and LE ROY W. WILLIS, Montville, N. J., assignors to Eastern Signal & Supply Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 24, 1920. Serial No. 405,610. 6 Claims. (Cl. 204—38.)



1. A primary battery comprising a jar, a cover for the jar, an electrode suspended from the cover, a series of blocks of insulating material supported on the electrode around the lower end of said electrode, and a tubular electrode surrounding the first-mentioned electrode in contact with the outer faces of said blocks, said tubular electrode being split longitudinally and provided with apertures adjacent its lower end and said blocks being provided with outwardly extending projections engaged in said apertures.

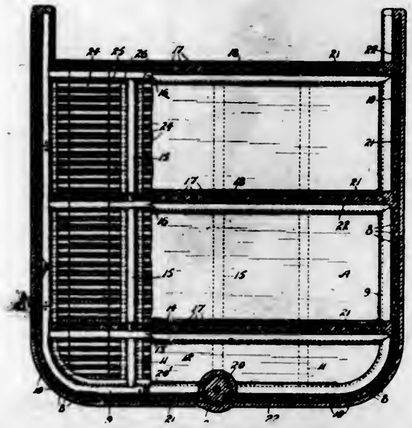
1,373,803. SYRINGE ATTACHMENT. LOUIS DUNN, Minneapolis, Minn. Filed Mar. 1, 1919. Serial No. 280,084. 7 Claims. (Cl. 128—218.)

2. The combination, with a syringe having a transparent barrel and hypodermic needle, of a tube communicating at one end with a source of fluid supply and provided with means at its other end for mounting the nozzle of the syringe barrel and the needle therein, a normally unobstructed passage being provided between said syringe nozzle and said needle, means mounted to open the



passage between said fluid supply and said syringe when the syringe is operated, the transparent syringe barrel enabling the user to determine the condition of the fluid and the position of the needle in the tissues.

1,373,804. CONCRETE SHIP CONSTRUCTION. JOHN J. EAGAN, San Francisco, Calif. Filed June 19, 1920. Serial No. 390,223. 6 Claims. (Cl. 114—65.)



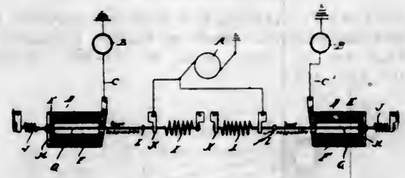
1. In a concrete vessel the framework consisting of U-shaped ribs for the bottom and sides of said vessel, cross-ribs connected to said U-shaped ribs and supporting the decks, pillars between and connected to said cross-ribs, a plurality of pillars between and connected to the lowermost of said cross-ribs and the bottom of said U-shaped ribs, hollow members in contact with the outer surface of said U-shaped ribs, cables extending through said hollow members and secured to the ends of said vessel and wire mesh covering said hollow members.

1,373,805. CREASE-CUP. WILLIAM FREDERICK EMERSON, Buffalo, N. Y., assignor to Buffalo Metal Goods Company, Buffalo, N. Y., a Corporation of New York. Filed Apr. 13, 1917. Serial No. 161,890. 10 Claims. (Cl. 184—38.)

8. The combination with a grease cup comprising a base having a small outlet pasasge for the lubricant and a cap threaded to fit the base, of a compressible grease capsule containing lubricant arranged within the cap and adapted to be compressed between the cap and the base, as the former is turned down on the latter, said capsule having a closed end and an open end arranged adjacent the base, and means on the upper end of the base to engage with the margin of the crushed capsule at its open end and retain the capsule when the cap is withdrawn.

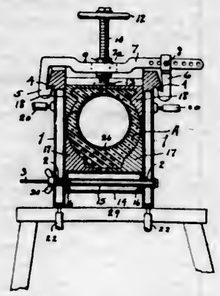


1,373,806. REGULATOR FOR ELECTRIC-LIGHTING SYSTEMS ON MOTOR-VEHICLES. JOHN W. FITZGERALD, Detroit, Mich. Filed Mar. 23, 1918. Serial No. 224,151. 4 Claims. (Cl. 171—229.)



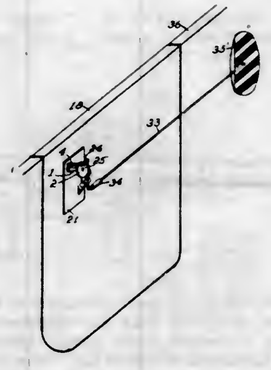
4. In an electric system for motor vehicles, the combination with a generator varying in voltage with speed changes, of a lamp circuit and a current regulator for said lamp circuit comprising a compressible resistor and an expansible conductor connected in series in said circuit, said resistor varying in resistance under different degrees of compression, and means acting through said conductor to subject said resistor to a compressive stress to decrease the resistance thereof, said stress being relieved through expansion of said conductor upon a predetermined flow of current therethrough to permit of expansion of said resistor and a consequent increase of the resistance of the same.

1,373,807. VULCANIZER. OSCAR M. FREDD, Hancock, Mich. Filed Dec. 6, 1920. Serial No. 428,527. 6 Claims. (Cl. 18—18.)



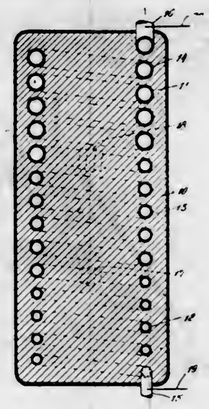
1. In a tire vulcanizer, the combination of hollow side chambers and a hollow base block between them, said parts having alined passages, bolts extending through the passages, pipes to supply steam to said members, tread blocks and bead blocks adapted to fit around a tire casing between said sides, and means to press the bead blocks toward the tread blocks.

1,373,808. MOTOR-VEHICLE SIGNALING DEVICE. CASPER HUGO GRINGS, Waterloo, Iowa. Filed July 10, 1920. Serial No. 395,304. 6 Claims. (Cl. 116—52.)



1. In a device of the character described, a shaft having a discoidal head, said shaft being mounted to rock on and for longitudinal reciprocation relative to a vehicle, a semaphore mounted pivotally on said vehicle to rock horizontally and having a crank-arm positioned in the path of reciprocatory movement and in contact with the said discoidal head, yieldable resilient means operable upon said discoidal head in one direction, and other yieldable resilient means operable upon said semaphore to yieldingly retain it in contact with said discoidal head.

1,373,809. VAPOR ELECTRIC HEATER. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed July 11, 1917. Serial No. 179,838. Renewed Aug. 6, 1920. Serial No. 401,823. 10 Claims. (Cl. 219—39.)



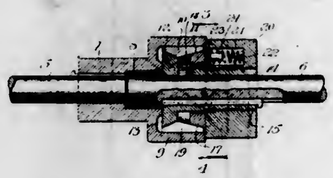
1. A vapor heater comprising a body of heat insulation having a vapor passage therein of varying size in cross-section, and electrical means for imparting heat to the vapor in the passage.

4. A vapor heater comprising a body of heat insulation having a vapor passage therein of varying size in cross-section, and heating coil set into the walls of the vapor passage and varying in size to correspond thereto.

7. A vapor heater comprising a body of heat insulation having a tortuous vapor passage therein of increasing

size in cross-section from the inlet to the outlet end of the passage, and a heating coil set into the walls of the vapor passage and varying in size to correspond thereto.

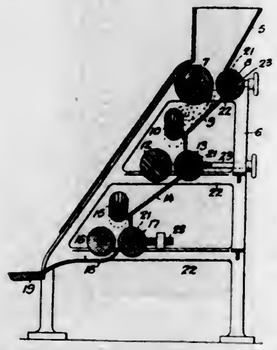
1,373,810. FRICTION-CLUTCH. CLIFFORD O. HANSEN, Tiffin, Ohio. Filed Feb. 9, 1920. Serial No. 357,383. 2 Claims. (Cl. 64—106.)



1. In a friction-clutch, the combination of a sleeve having a hollow cylindrical head, an expansion-ring in said head having a straight outer surface adapted to bear against the interior of said head and having its inner surface beveled to converge toward its circumferential center, clutch-members within said ring provided with beveled peripheral surfaces to engage, respectively said beveled ring-surfaces, a nut provided with recesses in its inner face, and springs in the nut-recesses to bear against the outer of said clutch-members and hold the clutch yieldingly in normally shipped condition.

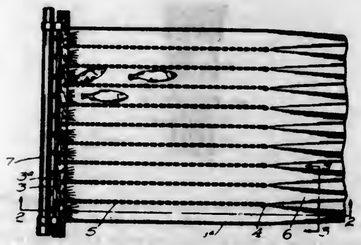
2. In a friction-clutch, the combination of a sleeve having a hollow cylindrical head, an expansion-ring in said head having a straight outer surface adapted to bear against the interior of said head and having its inner surface beveled to converge toward its circumferential center, clutch members within said ring provided with beveled peripheral surfaces to engage, respectively, said beveled ring-surfaces, a nut adjustably mounted relatively to said head and provided with recesses in its inner face, and helical springs in the nut-recesses to bear against the outer of said clutch-members and hold the clutch yieldingly in normally shipped condition.

1,373,811. DOUGH-DIVIDER. GEORGE HAPP, Jr., Port Jervis, N. Y. Filed Sept. 20, 1919. Serial No. 325,224. 4 Claims. (Cl. 107—9.)



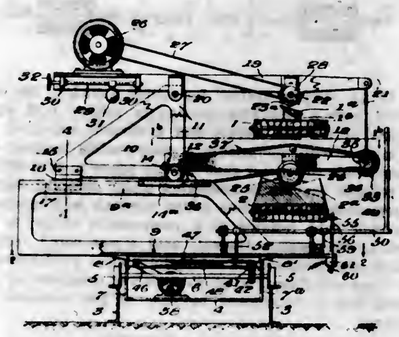
1. In a dough divider, the combination of an upright frame adapted to receive dough in a mass or batch at its top, compression rollers within the top and adapted to form the mass of dough into a sheet, a roller adapted to intercept the sheet of dough and form it into a coiled mass, and a second set of compression rollers adapted to receive the coiled mass of dough from the mass-forming roller and compress it into a shc t.

1,373,812. SARDINE-TURNING APPARATUS. FRANK HEATH, National City, Calif. Filed Aug. 14, 1919. Serial No. 317,405. 3 Claims. (Cl. 17—10.)



1. In a sardine turning apparatus, an inclined imperforate member and a plurality of flexible sardine engaging and retarding members extending in the direction of inclination over the top surface of said inclined imperforate member.

1,373,813. APPARATUS FOR MACHINING PROPELLER-BLADES. SPENCER HEATH, Baltimore, Md. Filed Feb. 23, 1918. Serial No. 218,857. 5 Claims. (Cl. 144—144.)

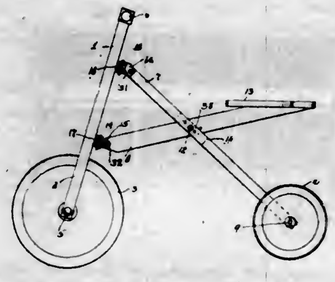


2. In an apparatus for machining propeller blades comprising a stationary model support, a stationary work support parallel thereto, a power driven primary carriage mounted to travel parallel to said supports during the cutting action to effect a continuous cutting movement lengthwise of the work, means to move said primary carriage in said continuous travel lengthwise of the work, a secondary carriage mounted on said primary carriage capable of manual adjustment transversely to said supports, and substantially at right angles to the line of movement of said primary carriage for each successive cutting position, a frame pivoted to said secondary carriage and extending forwardly and rearwardly of said pivotal support, a model follower member and a cutter member mounted in fixed relation to each other at the forward end of said frame, actuating means for rocking said frame, and operating means for said cutter member mounted at the rearward end of said frame whereby the frame is maintained in a balanced position.

1,373,814. CHILD'S VEHICLE. EDWARD J. HEMINGTON, Lakewood, Ohio. Filed Mar. 21, 1919. Serial No. 284,123. 6 Claims. (Cl. 208—165.)

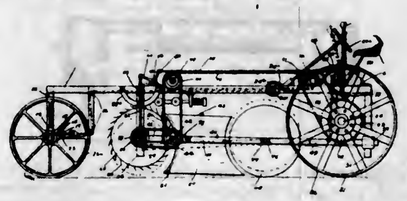
1. In a vehicle of the character described, the combination of a front frame member, a wheel mounted therein

and a steering handle attached thereto, two rear frame members, both being pivotally and removably attached to said front member, said two members being adjustably connected together, the adjustment being effected by



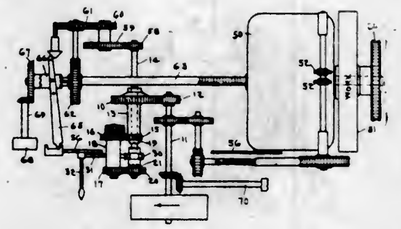
swinging one of said members about its point of pivotal connection to said front frame member, a seat mounted on one of said members and rear wheels mounted on the other.

1,373,815. DIGGING-MACHINE. CHARLES HOLLY, Weimar, Tex. Filed Sept. 20, 1920. Serial No. 411,369. 5 Claims. (Cl. 55—12.)



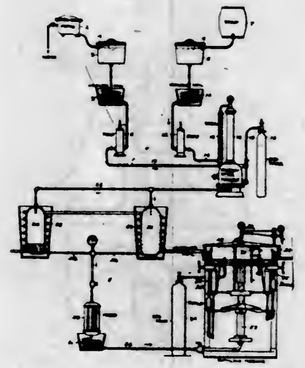
3. In a digging machine a wheel supported frame, means carried by said frame for digging a strip of earth of a width greater than the span of the supporting wheels of the frame to a predetermined depth and means for forming the dug earth in a ridge of less width than the span of the supporting wheels.

1,373,816. SPEED-CHANGING MECHANISM FOR METAL-WORKING MACHINES. CLARENCE J. HOWARD, Manton, R. I., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed June 2, 1920. Serial No. 386,114. 15 Claims. (Cl. 90—3.)



1. In a gear-cutting machine, a work-support, a cutter support, a pair of cutters operatively mounted on said support both of said cutters being arranged to operate simultaneously upon the work, means for moving one support slowly relatively to the other causing both cutters to make an initial or roughening cut, and means for increasing the feeding ratio when but one of said cutters is making an initial cut and the other is finishing a roughening cut previously made.

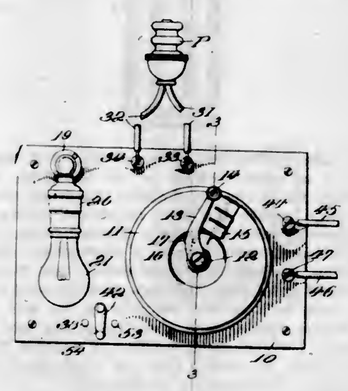
1,373,817. APPARATUS FOR BOTTLING CARBONATED LIQUIDS. DAVID HUMPHREY, Cleveland, Ohio. Filed July 24, 1918. Serial No. 246,445. 2 Claims. (Cl. 99—2.)



1. The method herein described of preparing carbonated liquid for bottling which consists in first separately cooling the water and the syrup and then forcing the liquids together under pressure into a mixer and carbonating the same to cause excessive foaming, then cooling and liquefying the carbonated mixture and subjecting the same to repeated admixture under pressure in advance and as a preparation for bottling the same.

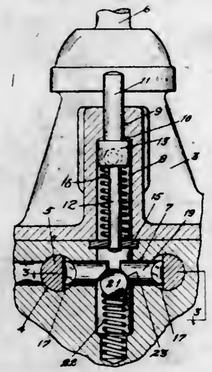
2. Means for making a carbonated mixture with water and syrup as ingredients comprising means for separately cooling the water and the syrup, a pump for each ingredient and a mixer into which the ingredients are forced by pressure, means for carbonating and converting the mixture into a frothy condition, means for cooling and liquefying the frothy mixture, and a mixer for the cooled liquid and for further carbonating the same preparatory for bottling.

1,373,818. ELECTROTHERAPEUTIC APPARATUS. CHARLES L. IRELAND, Fort McPherson, Ga. Filed May 24, 1920. Serial No. 383,729. 20 Claims. (Cl. 174—177.)



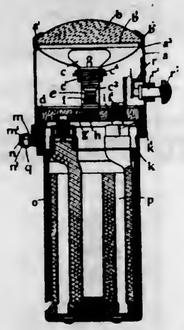
1. An electro-therapeutic appartaus of the character described comprising a rheostat, electrode conductors in circuit therewith, a periodically actuated interrupter, means providing a circuit to said rheostat, and selective means by which said interrupter may be included in said circuit.

1,373,819. SHIFTER-LOCK MECHANISM. GEORGE C. JENSEN, Oakland, Calif. Filed June 25, 1919. Serial No. 306,698. 9 Claims. (Cl. 70—126.)



1. In combination with a pair of gear shifters provided with stops, a pair of movable members positioned therebetween for engaging said shifters, a locking bolt movable between said members to maintain the same in locked engagement with said shifters, and a spring held device coöperating with the adjacent ends of said members and movable independently of the bolt for yieldably maintaining the said members in coöperative relation with said shifters to retain said shifters in their adjusted position.

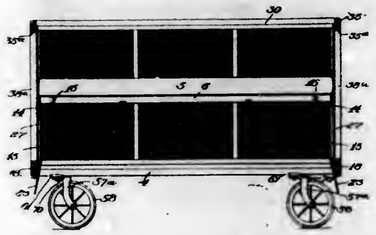
1,373,820. MINER'S ELECTRIC SAFETY-LAMP. JOHN WILLIAM JONES, Cannock, England, assignor to Haslam & Stretton Limited, Cardiff, Wales. Filed May 10, 1920. Serial No. 380,328. 2 Claims. (Cl. 240—8.5.)



1. An electric safety flash lamp, consisting in combination of the cylindrical casing of the lamp top, a lens surmounting and carried by the said cylindrical casing, a contact plate within the said cylindrical casing, said contact plate carrying a centrally disposed contact and a laterally disposed contact plate, a transversely disposed fitting within the said cylindrical casing, said fitting being supported at its respective ends upon the said contact plate, a lamp bulb carried centrally in the said transversely disposed fitting, and a switch on the said cylindrical casing operable from outside and adapted to complete the circuit by contact with the upstanding contact plate aforesaid, substantially as described.

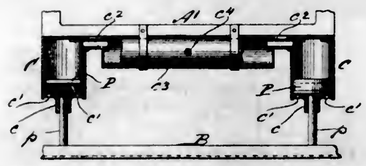
1,373,821. FOLDING CRIB. BENJAMIN H. KENNEDY, Rochester, N. Y., assignor, by mesne assignments, to Benjamin H. Kennedy and Dewey M. Kennedy, Rochester, N. Y. Filed Nov. 12, 1917. Serial No. 201,434. 19 Claims. (Cl. 5—58.)

19. A crib comprising in combination a body having oppositely positioned rails adjacent to the bottom thereof, a frame normally resting on said rails, normally folded supports pivoted upon the frame, and means adapted to cause the supports to travel upon the rails into position to sustain the frame thereon when the latter is raised, said



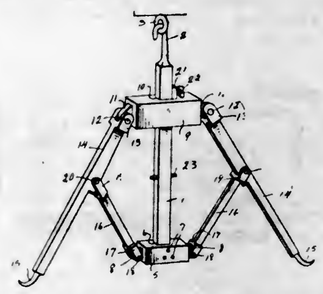
supports comprising substantially U-shaped wire bails having intermediate offset portions accessible beneath the crib to effect their manual release by means of the operator's foot.

1,373,822. VEHICLE-FENDER. HARRY A. KLEINE, Jersey City Heights, N. J. Filed May 5, 1920. Serial No. 378,944. 1 Claim. (Cl. 293—55.)



A vehicle fender of the character designated, comprising a sealed horizontal elongate medial air reservoir formed with end cylinders positioned at right angles thereto, air compression pistons in said cylinders the rods of which support the buffer bar, and cylinder caps formed with bearings for said piston rods and also formed with open air vents for the free access of the atmosphere to, and its escape from, the front of the pistons, for the purpose set forth.

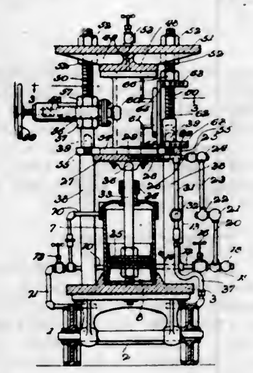
1,373,823. GAMBREL. CHARLIE SPURGEON MCCLUNG, Longacre, W. Va. Filed July 19, 1919. Serial No. 311,965. 1 Claim. (Cl. 294—79.)



In a gambrel, the combination with a suspending member rectangular in cross-section and provided on one of its edges with a series of spaced sockets, of a base having a depression rectangular in shape, in which the lower end of the member is fixedly but detachably secured, a head having a vertical opening through which the member passes, whereby the head may be adjusted vertically, said head having an outwardly projecting lug adjacent one edge of the member, a set screw threaded in the lug and adapted to slidably engage said sockets, to hold the head

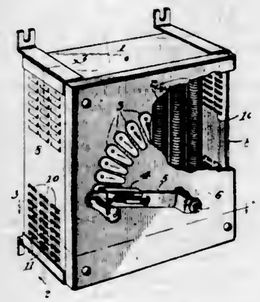
in different positions on the member against movement in either direction, a pair of arms having hooks pivotally mounted upon the laterally extending ends of the head, whereby the legs of a carcass may engage the hooks for suspending the carcass, a pair of links pivotally connected to the base and extending upwardly and laterally in opposite directions and having their upper lateral ends pivotally connected to the arms substantially midway their ends, and a pin extending transversely of the member, to limit the head in its movement downwardly.

1,373,824. VALVE-TESTING MACHINE. WILLIAM H. MCKENZIE, Oakland, Calif. Filed Mar. 2, 1920. Serial No. 362,849. 4 Claims. (Cl. 73—51.)



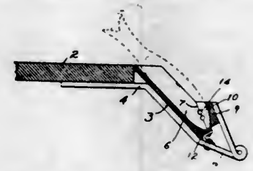
1. In an apparatus for the purpose set forth, the combination of a plurality of posts, a head plate movable vertically between the posts and adapted to support a fitting to be tested, means for raising the head plate, means for supplying liquid under pressure through the head plate to the fitting, a clamping plate secured on the posts above the fitting and against which the fitting is clamped by the head plate, said clamping plate being provided with intersecting reinforcing ribs on its under side, and a vent valve at the intersection of said ribs.

1,373,825. RESISTANCE-BOX. FRANCIS W. MAGIN, Milwaukee, Wis., assignor to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 9, 1920. Serial No. 387,696. 4 Claims. (Cl. 219—48.)



1. Apparatus of the class described having a casing with a wall of sheet metal having ventilating slots, the edges whereof are close together for chilling the flaming gases within to a point below the temperature of ignition.

1,373,826. FISH-STRINGER. FRED J. MULLINS, Pittsburg, Calif., assignor to F. E. Booth Co., San Francisco, Calif., a Corporation of California. Filed May 8, 1919. Serial No. 295,811. 3 Claims. (Cl. 17—30.)



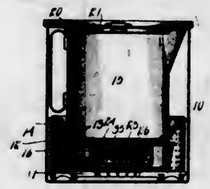
1. In an apparatus for stringing fish, a pocket plate for holding a plurality of fish in spaced predetermined position, a stringing rod, means for guiding the stringing rod through a portion of each pocket whereby the fish lying therein are impaled upon the rod, and means for varying the position of the fish in said pockets.

1,373,827. COMBINED FENCE, PLANT-PROTECTOR, AND INSECT-DESTROYER. JOHN NELSON and ROBERT WATSON, Pasadena, Calif. Filed Sept. 25, 1920. Serial No. 412,800. 5 Claims. (Cl. 43—107.)



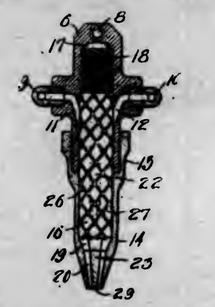
4. In a fence for protecting young plants or crops, a vertical fence portion provided with a trough at its upper marginal portion, said trough having an over-hanging roof, said protecting fence being constructed in sections, means for detachably connecting the sections together, the marginal portion of the roof being spaced above and offset outwardly beyond the upper marginal portion of the vertical portion acting to shed water from the interior of the trough, said means comprising a strap carried by one section and overlying the wall of an adjacent section, said overlying part having a slot, and means extending through the slot and held therein, for holding the sections together.

1,373,828. HEATER AND COOKER. OTIS W. NOTTINGHAM, Indianapolis, Ind. Filed July 15, 1919. Serial No. 310,940. 1 Claim. (Cl. 126—38.)



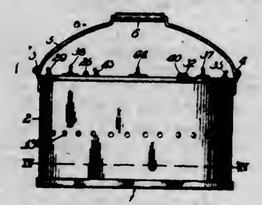
A cooking kit comprising, a covered receptacle, a stove having an annular rib surrounding a combustion space and upstanding above the plane of the stove, a fuel receptacle surrounding the combustion chamber and insulated therefrom by material carried beneath the annular rib, and a plurality of utensils proportioned to be contained within the receptacle and each unit bearing upon the unit below with the lowermost of said units bearing upon the annular rib of the stove, and with the cover of the receptacle bearing upon the uppermost unit, whereby each unit is held against movement within the receptacle.

1,373,829. WELDING AND CUTTING TORCH. WILLIAM B. PERDUE, Emeryville, Calif. Filed Aug. 26, 1918. Serial No. 251,368. 6 Claims. (Cl. 158—27.4.)



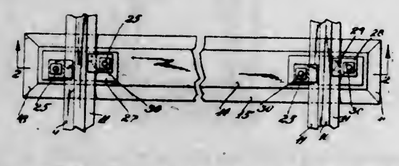
2. In a torch, a mixing tip provided with intersecting channels whereby the gases to be mixed flow therethrough in recurrently commingling streams and having a tapered lower end upon the surface of which said intersecting channels open, a casing inclosing said tip and having a conical lower end between which and the tapered end of said tip a passage is formed, and having a discharge orifice at the end of said passage, and means for feeding gases to be mixed into the channels adjacent the upper end of the tip.

1,373,830. COMBINATION FISH AND BAIT BUCKET. HERBERT H. PETTY, Indianapolis, Ind. Filed Oct. 30, 1919. Serial No. 334,491. 5 Claims. (Cl. 43—56.)



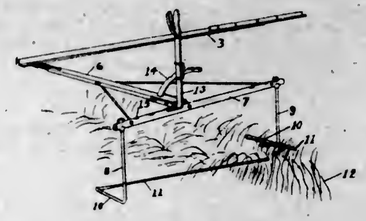
1. A combination fish and bait bucket having a lower compartment and an upper compartment and a passageway between the compartments, and a plurality of ventilated vessels of equal height collectively occupying the space and having their bottoms supported on one and the same horizontal plane in the upper compartment.

1,373,831. RAILROAD-TIE. PIOTR S. RACHWAL, Depew, N. Y. Filed Mar. 21, 1919. Serial No. 284,159. 2 Claims. (Cl. 238—343.)



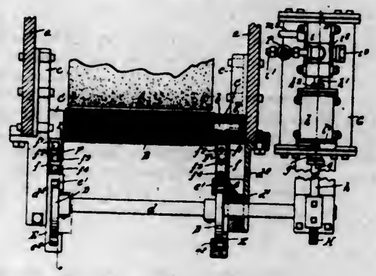
2. A railway tie comprising a hollow body having a top provided with an enlarged inner opening, a reduced recess extending outwardly from said opening, and lugs arranged underneath said top and on opposite sides of said recess, a clip adapted to engage a rail on said tie, and a bolt having its stem passing through said clip and recess and having its head movable through said opening and normally arranged between said lugs so as to be held against turning thereby, and the nut of the bolt bearing against the upper side of said clip.

1,373,832. PEA-VINE-HARVESTING MACHINE. PHILLIP REINBOLD, ARTHUR REINBOLD, and ALEXANDER REINBOLD, Blumfield township, Saginaw county, Mich. Filed June 22, 1920. Serial No. 390,842. 3 Claims. (Cl. 56—1.)



1. A vine-folding attachment for pea-harvesters and the like comprising in combination, a laterally-extending arm carried by said harvester, a frame and means connecting said frame to said arm at a point above an adjacent row of vines, a pair of downwardly projecting bars secured to said frame, runners on said bars, and upwardly, rearwardly and inwardly projecting prongs fixed to the front ends of said runners, for the purposes set forth.

1,373,833. APPARATUS FOR DRESSING GRINDSTONES. RALPH R. ROBERTS, Lockport, N. Y., assignor to Roberts Manufacturing Co., Lockport, N. Y. Filed Mar. 28, 1918. Serial No. 225,164. 49 Claims. (Cl. 125—11.)



1. In an apparatus for dressing grindstones, the combination of a rotary dressing tool arranged in operative relation to a stone, means for pressing said tool against the circumferential face of the stone to form impressions on said face of said stone and for controlling the pressure with which said tool is pressed against said stone, to form impressions of predetermined depth on said stone.

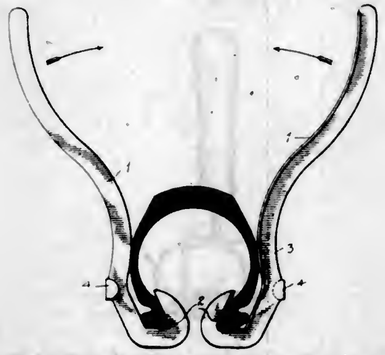
2. In an apparatus for dressing grind stones, the combination of a dressing tool arranged in operative relation to a stone, and means independent of the pressure exerted by said tool against said stone for pressing said tool for a predetermined interval of time against the surface to be dressed.

3. In an apparatus for dressing grindstones, the combination of a dressing tool, means for pressing said tool against said stone, means for controlling the pressure with which said tool is pressed against said stone, and automatic means independent of the pressure exerted by said tool against said stone for causing said tool to act on said stone for a predetermined interval of time.

4. In an apparatus for dressing grinustones, the combination of a dressing tool, power-operated means for pressing said tool against the grindstone, and automatic means for controlling the time during which said power-operated means act on said stone.

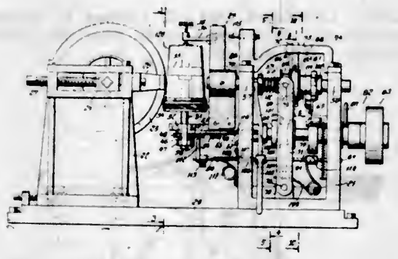
5. In an apparatus for dressing grindstones, the combination of a rotary dressing tool extending across the cutting surface of a stone, means for pressing said tool against the surface of said stone, and means for regulating the pressure with which said pressing means press said tool against the stone.

1,373,834. TIRE-TURNING TOOL. JOHN F. ROGERS, Dayton, Ohio. Filed Sept. 13, 1920. Serial No. 410,063. 6 Claims. (Cl. 152—27.)



6. As an article of manufacture, a tire turning tool comprising an ogee lever, tire engaging means at one end of the lever, and means for interengaging the said lever with a second like lever engaged with the tire in reversed parallel relation.

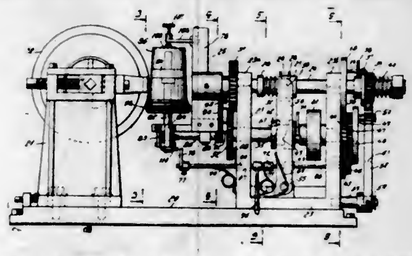
1,373,835. GLASS-GRINDING MACHINE. EDWARD A. RYON, Wellsboro, Pa., assignor to Fred W. Siemens, Wellsboro, Pa. Filed June 19, 1919. Serial No. 305,362. 17 Claims. (Cl. 51—107.)



1. A glass grinding machine comprising a grinding wheel, a driving shaft, a pulley thereon, a clutch for coupling the pulley to the shaft, a spindle, a ratchet and pawl connection between the shaft and the spindle for rotatively advancing the spindle step by step, an annular cam on the driving shaft, and a rocking lever actuated by the annular cam to move the spindle toward and from the cutting wheel.

1,373,836. GLASS-GRINDING MACHINE. EDWARD A. RYON, Wellsboro, Pa., assignor to Fred W. Siemens, Filed June 19, 1919. Serial No. 305,363. 14 Claims. (Cl. 51—107.

1. A glass grinding machine comprising a work holder, means for producing an oscillatory adjustment of the work holder, means for reciprocating the work holder between each oscillatory adjustment thereof, means for

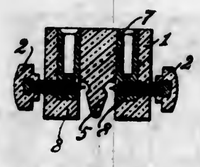


rotatively adjusting the work about an axis at right angles to the axis of oscillation, and means for reciprocating the spindle.

1,373,837. PROCESS OF RENOVATING POLISHING-PLATES. LOUIS SCHULTE, Pittsburgh, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 24, 1918. Serial No. 246,532. 2 Claims. (Cl. 204—1.)

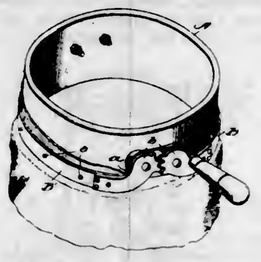
1. The process of renovating press polishing plates having a nickel facing, which comprises nickel plating the worn facing by means of a solution containing sulfate of sodium, and single and double nickel slats, and polishing the nickel plated surface.

1,373,838. PLUG-SOCKET. GIORGIO SCOPPOLA, Rome, Italy. Filed Dec. 11, 1920. Serial No. 430,014. 2 Claims. (Cl. 173—340.)



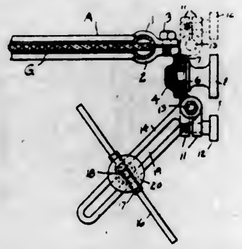
2. A plug socket comprising an insulating body having spaced projections at one end, an arrow head extending from the body intermediate the projections, metallic members inserted in said body in line with the projections and formed at one end to receive contact terminals, and connecting members operative through the projections and having electrical connection with said metallic members, the inner ends of said connecting members being pointed.

1,373,839. BAG-HOLDER. LESTER B. SHAMBLEN, Omaha, Nebr., assignor of one-half to United Alfalfa Company, Omaha, Nebr., a Corporation of Nebraska. Filed June 2, 1920. Serial No. 385,930. 6 Claims. (Cl. 83—26.)



1. A bag holder comprising an apertured frame and a pair of clamping sections pivotally mounted thereon having intergeared ends, said sections having substantially horizontal lower edges and said frame having a base flange against which the sections seat edgewise.

1,373,840. WINDSHIELD. HARVEY G. SMITH, Los Angeles, Calif. Filed Aug. 8, 1919. Serial No. 316,125. 2 Claims. (Cl. 296—84.)

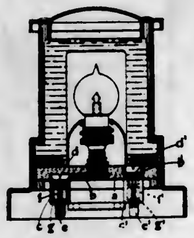


1. In an auxiliary wind-shield, a clamp adapted to be attached to a vehicle, a pivot lug integral with said clamp, a bracket revolubly mounted thereon, corrugations on the adjacent faces of said lug and said bracket, a rod mounted in said bracket and capable of rotative and longitudinal adjustment, means for locking said rod, slotted arms adjustably mounted at the extremities of said rod, a windshield revolubly mounted on trunnions capable of being adjusted and locked in said slots in said arms; all substantially as shown and described.

1,378,841. ROTARY SCREEN. JOHN M. STONE and AVON L. STONE, Stockton, Calif., assignors to Gravity Grain Grader Company, Stockton, Calif., a Corporation of California. Filed Apr. 17, 1919. Serial No. 290,655. 3 Claims. (Cl. 130—16.)

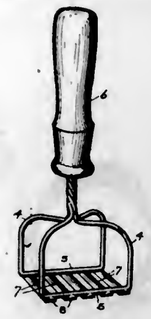
1. A rotary screen comprising a plurality of ribs disposed about an axial support, screen surfaces supported by the ribs, and diagonally disposed strips successively arranged between alternate pairs of ribs and spaced from the screening surfaces to provide means for advancing material from the receiving end of the screen to the discharge end.

1,373,842. MINER'S ELECTRIC SAFETY-LAMP. THEODORE STRETTON, Cardiff, Wales, assignor to Haslam & Stretton Limited, Cardiff, Wales. Filed May 10, 1920. Serial No. 380,254. 1 Claim. (Cl. 240—8.5.)



In a miner's lamp, in combination, the following elements, a contact plate of insulating material, two contacts mounted in said plate and having their respective upper and lower faces flush with the respective upper and lower faces of the contact plate, hollow cylindrical members internally screw threaded at their upper ends for connection with the respective contacts on the under face thereof by means of countersunk screws whose top faces are flush with the respective faces of the contacts, and spring pressed plugs at the lower ends of the said cylindrical members, substantially as described.

1,373,843. VEGETABLE-MASHER. CARL H. SUNDBERG, Chicago, Ill. Filed Sept. 7, 1920. Serial No. 408,493. 3 Claims. (Cl. 146—15.)

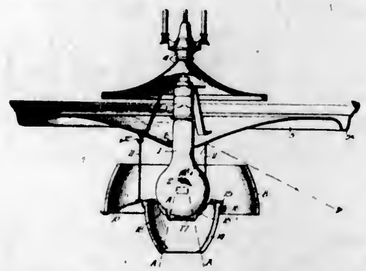


1. In a device of the class described, mashing elements provided with flat lower surfaces and rounded upper surfaces.

1,373,844. HIGH EXPLOSIVE AND PROCESS OF MAKING SAME. WENDELL R. SWINT, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 6, 1918. Serial No. 232,872. 31 Claims. (Cl. 52—3.)

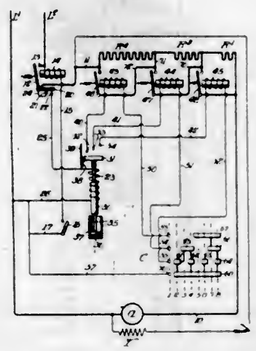
1. An explosive composition comprising wet nitrocellulose of a high degree of nitration and a liquid nitro derivative of a hydrocarbon.

1,373,845. LIGHTING DEVICE. EDWIN D. TILLSON, Evanston, Ill. Filed July 8, 1918. Serial No. 243,082. 2 Claims. (Cl. 240—92.)



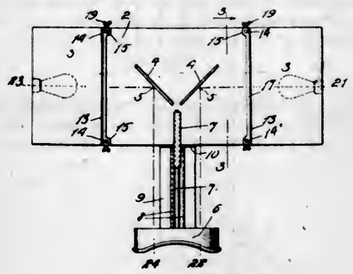
1. A lighting device having a light source, a reflector above said source, an upper annular translucent element, open top and bottom, surrounding said source and having its upper edge high enough to intercept the rays which would escape the edge of the reflector, a lower and smaller annular translucent element open top and bottom, surrounding said source and having its upper edge high enough to intercept the rays which would escape beneath the lower edge of the upper translucent element, said lower element having a substantially sheer inner concave surface facing inward and upward, and said upper element having a concave inner surface facing inward and downward.

1,373,846. CONTROLLER FOR ELECTRIC MOTORS. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 21, 1918. Serial No. 263,594. 14 Claims. (Cl. 172—288.)



1. A motor controller having a plurality of sections of resistance in series in the motor circuit, a regulator adapted at will to vary the sequence in which said sections shall be cut out of circuit, and a time controlled starting switch adapted as it advances to cut out the sections in the sequence previously determined by the regulator.

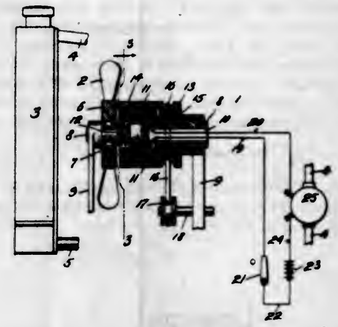
1,373,847. STEREOSCOPE FOR X-RAY PLATES. HARRY F. WAITE, New York, N. Y. Filed July 14, 1919. Serial No. 310,780. 5 Claims. (Cl. 88—20.)



1. A stereoscope for X-ray plates of different sizes which consists of a base with lanterns fixed thereto and supported thereon and provided with adjustable means adapted to receive plates and support them in the same optical axis, mirrors fixed to said base between said lanterns and a head piece adjustably connected to the base so that its position may be adjusted according to the nature of the plates and the needs of the observer.

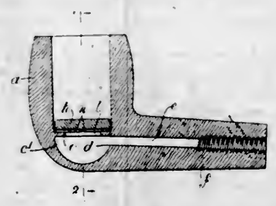
1,373,848. DEVICE FOR KEEPING COOLING-WATER AT DESIRABLE TEMPERATURES. HARRY F. WAITE, New York, N. Y. Filed Jan. 17, 1920. Serial No. 351,987. 1 Claim. (Cl. 123—171.)

In a device of the class described, a radiator, a fan mounted to revolve immediately in the rear of the radiator, a pulley immediately in rear of the fan and means for driving the same, an electromagnetic coil incased in said pulley, means for energizing the magnet including a thermostatic switch which is controlled by the engine temperature so that when the system is in use, the magnets



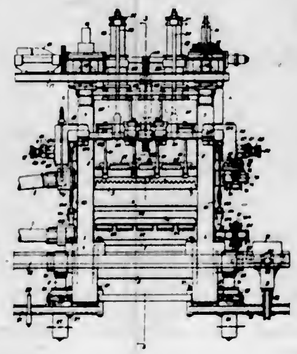
will be energized and the pulley will drive the fan and cool the radiator whenever the heat of the engine rises above a predetermined point.

1,373,849. TOBACCO-PIPE AND CIGAR AND CIGARETTE HOLDER. ALFRED WEBBER, Portsmouth, England. Filed Apr. 13, 1920. Serial No. 373,665. 3 Claims. (Cl. 131—12.)



2. A tobacco pipe having the bowl divided by an annular ledge providing restricted communication between the bowl portions and opposite sides of the ledge, and an imperforate non-absorbent partition removably supported on said ledge as a support for the tobacco, there being air passages formed between the ledge and partition.

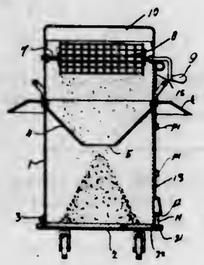
1,373,850. ROLLING-MILL. JOHN S. WORTH, Coatesville, Pa., assignor to Worth Brothers Corporation, Claymont, Del., a Corporation of Delaware. Filed Aug. 27, 1919. Serial No. 320,129. 35 Claims. (Cl. 80—56.)



10. The combination in a 5-high rolling mill, of housings; bearings in the housings; upper and lower working

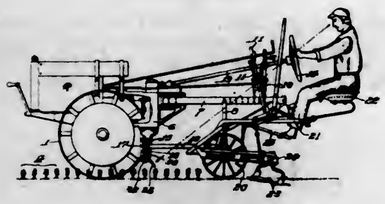
rolls adapted to the bearings; a supporting roll back of each working roll and also adapted to the bearings in the housings; an intermediate roll; means for moving the intermediate roll; means for driving the working rolls, each supporting roll having additional trunnions less in diameter than the main trunnions; bearings in which these trunnions are mounted; a cross beam carrying the upper bearings; means for supporting the beam; and hydraulic cylinders having pistons supporting the bearings carrying the trunnions of the lower supporting roll.

1,373,851. CLOSURE-FASTENER FOR ASH-SIFTERS. STANISLAW ZYSKOWSKI, Wilkes-Barre, Pa. Filed Sept. 1, 1920. Serial No. 407,530. 1 Claim. (Cl. 292—100.)



In a device of the class described, a casing having a base member pivotally attached thereto, a recess in the periphery of said base, a tongue rigid with said base and extending into said recess, a substantially S-shaped hook pivotally attached to said frame and adapted to enter said recess and engage said tongue, a rod pivotally attached to said hook and extending vertically along the exterior of said casing, and means attached to the upper end of said rod for moving said rod, said rod being vertically slidable.

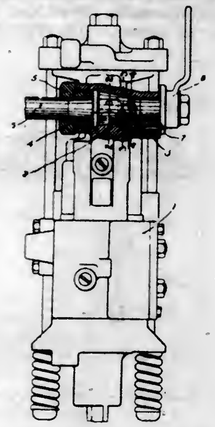
1,373,852. TRACTOR. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed June 17, 1920. Serial No. 389,606. 8 Claims. (Cl. 97—30.)



1. The combination with a farm tractor having a depending draft plate, of a marker movably secured to said draft plate for indicating the position of the tractor.

1,373,853. THROTTLE-VALVE FOR DRILLS. LEWIS C. BAYLES and FRED M. SLATER, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 11, 1918. Serial No. 257,788. 3 Claims. (Cl. 121—7.)

1. In a throttle valve for percussive rock cutting tools having independent percussive and rotation elements, a valve casing, a valve rotatable therein, said valve having ports adapted to register with fluid conduits extending to the fluid consuming elements of the tool, rotation of said valve in one direction being adapted to gradually vary the supply to the conduit extending to the percussive ele-

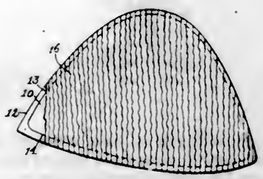


ment from nothing to light operating supply, and then maintain the supply to the percussive element uniform while varying the supply to the rotation element.

1,373,854. REFRACTORY BRICK. CHARLES W. BERRY, St. Louis, Mo., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 4, 1918. Serial No. 226,745. 2 Claims. (Cl. 106—9.)

1. A process of manufacturing refractory material consisting in first mixing the desired proportions of magnesite and bauxite in a raw condition, then mixing water with the same, then burning the resultant product at a temperature sufficient to drive off moisture and gas, next regrinding said calcined product and mixing with water, finally forming same into a suitable shape, and burning such shape to produce a hard refractory article.

1,373,855. BOX FOR THE TOE PORTIONS OF BOOTS OR SHOES. RALPH W. BIEBER, Binghamton, N. Y. Filed July 12, 1919. Serial No. 310,355. 3 Claims. (Cl. 36—77.)

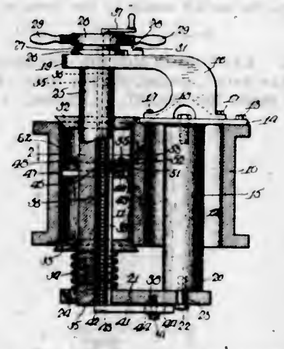


3. A box for the toe portions of shoes having a celluloid member and a member of paper capable of being expanded or stretched without tearing or splitting adhesively affixed to said celluloid member.

1,373,856. BORING-MACHINE. POMPEIN BOSCH, Elgin, Ill. Filed July 18, 1919. Serial No. 311,761. 6 Claims. (Cl. 77—2.)

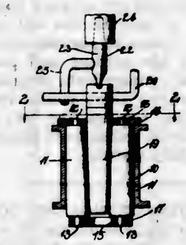
1. A boring machine, embodying a rotatable tool shaft, a feed screw rotatable with the shaft and with respect thereto, a tool carried slidably mounted upon the tool shaft and rotatable therewith, a nut movable upon the feed screw, said tool carrier having a recess opening through the face thereof, an element separate from

and interposed between the nut and tool carrier, said element being freely detachable from the nut while the latter is upon the screw, and also being removably seated in the said recess, and a catch plate movably mounted upon



the tool carrier and adapted to be moved across the said recess and over the said element whereby the said element will be locked in operative position and against detachment from the nut and tool carrier.

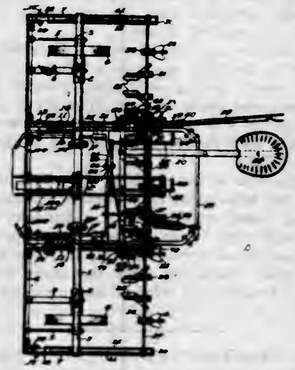
1,373,857. ENGINE-CYLINDER-BURNISHING TOOL. POMPEIN BOSCH, Elgin, Ill. Filed June 14, 1920. Serial No. 388,869. 5 Claims. (Cl. 29—90.)



1. An engine cylinder burnishing tool embodying a plurality of rollers having journals at their ends, annular bearing elements at the ends of the rollers and having elongate slots forming bearings for said journals, means connecting the said elements for holding the rollers against displacement with respect thereto, one of said elements being of a diameter greater than the bore of the cylinder and adapted to rest upon the end of the cylinder for supporting the tool, a mandrel adapted to be inserted between the rollers to force the latter against the cylinder wall, and means for rotating the mandrel, the rollers being rotated about their axes and also around the cylinder wall by frictional engagement with the mandrel.

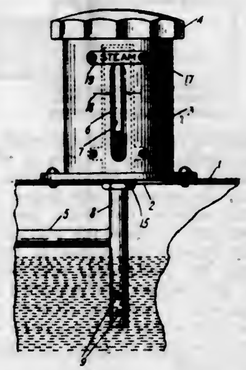
1,373,858. AGRICULTURAL IMPLEMENT. JAMES MONROE BOWEN, Cape May Courthouse, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed May 14, 1920. Serial No. 381,291. 9 Claims. (Cl. 97—34.)

7. In a cultivator, the combination of a frame, a supporting bar, supporting wheels in operative relation therewith, a bracket bar rigid with said supporting bar, a plurality of brackets vertically movable with respect to said bracket bar, a gang bar disposed in the rear of said supporting bar, a plurality of parallel draft rods extending between said gang bar and said brackets and movable with respect thereto, a pair of foot levers pivoted on said frame, means interposed between said levers and said draft rods operative to communicate motion from said levers to said rods, to shift said gang bar laterally, means for vertically supporting said rods with respect to said frame, and manually operated levers for raising and lowering said sup-



porting means whereby vertical angular adjustment of said gang bar may be effected and said gang bar raised or lowered when said gang bar is either in normal or laterally shifted position.

1,373,859. TEMPERATURE-INDICATOR FOR AUTOMOBILES. HARRISON H. BOYCE, Forest Hills, N. Y. Filed Mar. 29, 1916. Serial No. 87,423. 8 Claims. (Cl. 73—52.)



1. In apparatus of the character described, the combination with a vehicle radiator having a filler spout, of a thermometer mounted on the radiator, said thermometer having its thermally responsive part subjected to temperatures within the radiator and having its indicator part extending above the top of the radiator but not above the top of the filler spout and being located in proximity to a wall of the filler spout, the parts being so constructed and arranged that the front of said indicator part is exposed to view, whereby the indicating part is readable and at the same time is protected by the filler spout.

2. In apparatus of the character described, the combination with an automobile radiator having a filler spout, of a glass tube thermometer disposed vertically adjacent to a wall of the filler spout, the upper end of the thermometer being lower than the top of the filler spout and the bulb of the thermometer extending below the filler spout into the radiator, said parts being so constructed and arranged that the indicating part of the thermometer is exposed to view.

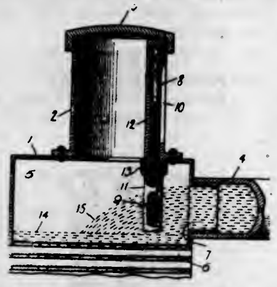
3. In an apparatus of the character described, the combination with an automobile radiator having a filler spout, of a glass tube thermometer disposed vertically adjacent

to the rear wall of the filler spout, the upper end of the thermometer being lower than the top of the filler spout and the bulb of the thermometer extending below the filler spout into the radiator, said parts being so constructed and arranged that the indicating part of the thermometer is exposed to view.

4. In apparatus of the character described, the combination with the filler spont of an automobile radiator, said filler spout having a window therein, of a thermometer mounted inside of said filler spout close to the side wall thereof and adjacent to said window and visible therethrough, said windOw being formed in the rear wall of the filler spout.

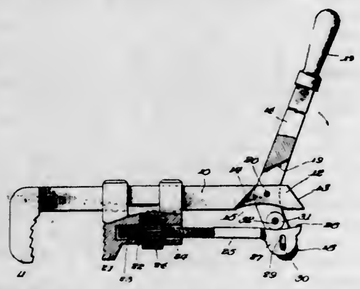
5. In apparatus of the character described, the combination with the filler spout of an automobile radiator, said filler spout being provided with a window, of a thermometer supported inside of said filler spout and adjacent to said window and readable therethrough, and an inclosing shell contacting with the inner wall of said filler spout around said window and inclosing said thermometer.

1,373,860. TEMPERATURE-INDICATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. HARRISON H. BOYCE, Forest Hills, N. Y. Filed May 13, 1916. Serial No. 97,252. 4 Claims. (Cl. 73—52.)



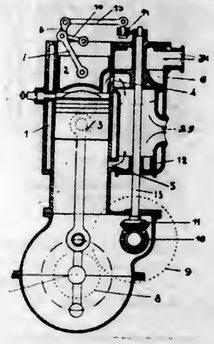
1. In means for indicating the thermal condition of an internal combustion engine, having a water circulating cooling system including a radiator having a top tank and a return pipe for returning the heated water from the engine to the radiator, the return pipe discharging the heated water directly into the radiator in an unconfined stream through an orifice in the rear wall of said top tank, the combination with such radiator and return pipe, of a temperature indicating instrument having a temperature responsive element located in such proximity to such orifice as to be acted upon by the unconfined jet or stream of water entering the top tank through such orifice.

1,373,861. WRENCH. LARKIN BRILES, Lake City, Calif., assignor to J. E. Leonard, Davis Creek, Calif. Filed Mar. 19, 1920. Serial No. 367,175. 4 Claims. (Cl. 81—85.)



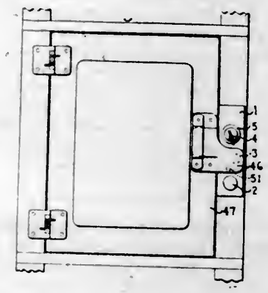
1. A wrench including a shank provided with a fixed jaw and having a coacting movable jaw slidable thereon, an operating lever pivoted upon the shank and provided with a laterally directed arm, means forming a connection between the arm and the movable jaw, means loosely and pivotally connecting the first means with said arm, and means carried by the arm for shifting the first means relative to the second means as the lever is swung.

1,373,862. EXPLOSION-MOTOR. ROBERTO BUONOCORE and FRANCESCO CAPALDO, Naples, Italy. Filed Apr. 14, 1919. Serial No. 289,837. 3 Claims. (Cl. 123—75.)



1. In an explosion motor, a cylinder having a slot, a spark plug adjacent to said slot, a working piston within the cylinder, a second piston arranged near the mouth of the cylinder and acting as piston cover, this second piston being adapted to move toward or away from the working piston and to cover or uncover said slot provided in the wall of the cylinder, means to put this slot alternately in communication with the exhaust and suction pipes, a second slot within the cylinder wall, controlled by the said means, means to control these means from the motor shaft and connections between the last named means and the secondary piston rod so as to impart a to and fro motion to the secondary piston.

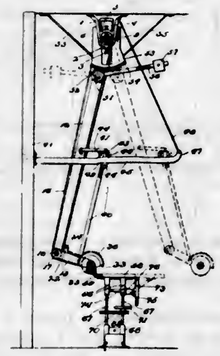
1,373,863. COIN-CONTROLLED LOCKER-LOCK. RALEIGH B. BUZZAIRD, Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y., a Corporation of New York. Filed July 17, 1920. Serial No. 397,119. 4 Claims. (Cl. 194—1.)



1. The combination of a coin-controlled lock, a coin-entrance thereto, a relatively movable door subject to said lock, and a lip on the door for closing said coin-entrance.

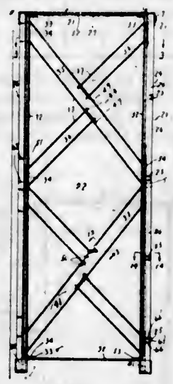
1,373,864. SAWING-MACHINE. CHARLES J. CARLSON, Helena, Mont. Filed Dec. 31, 1919. Serial No. 348,540. 3 Claims. (Cl. 143—46.)

1. In an apparatus of the class described, the combination of a frame mounted at its upper end to swing about a fixed point, a saw frame pivotally connected to the lower end of said swinging frame and extending forwardly therefrom, a saw carried by the front end of the saw frame, a swivel bar pivoted at its lower end to the saw frame, a link connecting the upper end of said bar



with the swinging frame, a horizontal track adjacent the swivel bar and the swinging frame and parallel to the plane of movement thereof, and a carrier pivoted to the swivel bar near the upper end thereof and arranged to travel on said track.

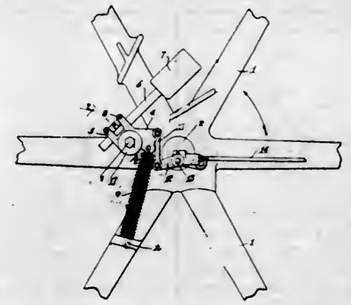
1,373,865. SHEET-METAL STRUCTURE. CHARLES Q. CARPENTER, Dayton, Ohio. Filed July 10, 1919. Serial No. 309,815. 6 Claims. (Cl. 189—34.)



1. A composite sheet-metal wall comprising a comparatively thin sheet of metal of extended area, and reinforcing strips extending in a plurality of directions across the face of said comparatively thin sheet of metal, the major portions of said reinforcing strips distanced from the margins of said comparatively thin sheet of metal, said reinforcing strips rigidly interconnected and rigidly connected with said sheet along said reinforcing strips.

1,373,866. GOVERNOR FOR STEAM-ENGINES. ADOLPH F. CHRISTMAS, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 14, 1919. Serial No. 310,737. 3 Claims. (Cl. 121—172.)

1. In a governor for steam engines, the combination with a fly wheel, of a hollow pin mounted in one arm of the fly wheel, a bolt passing longitudinally through said pin, a governor body pivoted on said pin, a governor arm carried by said body, a governor weight adjustable to and from the said pin about which the weight is adapted to oscillate, a collar on said bolt and friction material between said collar and the face of the said governor body,



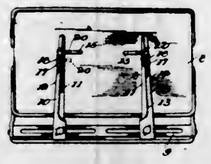
for withstanding the accelerating effect of gravity as the weights travel with gravity.

1,373,867. KEY-RING. ALBERT W. CONNER, Falls City, Nebr. Filed May 10, 1920. Serial No. 380,281. 6 Claims. (Cl. 59—96.)



6. A key ring comprising a loop, one terminal of the loop having a keyhole slot with the larger end of the slot disposed adjacent the closed end of the loop and the other terminal of the loop comprising a hook, a connecting member having a lug for pivotal engagement in the larger end of the keyhole slot and keyed engagement in the smaller end thereof, the other end of the connecting member having means for releasable engagement with the hook.

1,373,868. AUXILIARY GRIPPER. CHARLES G. COPE, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1920. Serial No. 355,550. 2 Claims. (Cl. 101—408.)



2. The combination with a platen gripper having an edge wall and a wall parallel with said edge wall, of an auxiliary gripper having a portion coöperating with one of said walls and including eccentric locking means cooperating with the other wall, and resilient means connecting said portion with said locking means.

1,373,869. FEEDING DEVICE FOR SHEETS, ENVELOPS, AND THE LIKE. OTIS C. CURRIE, Detroit, Mich., assignor to William O. Albig, Adrian, Mich. Filed Apr. 4, 1917. Serial No. 159,725. 7 Claims. (Cl. 271—29.)

4. In mechanism for feeding sheets, envelops and the like, means for holding a stack of sheets or envelops, a suction plate, a hollow arm supporting the plate, means

for oscillating the said arm to bring the plate to and from the stack to turn an end of the foremost sheet outward from the stack with the suction plate therebeneath providing a table for the sheet, a pair of continuously rotatable feed rolls, a frame supporting the rolls oscilla-

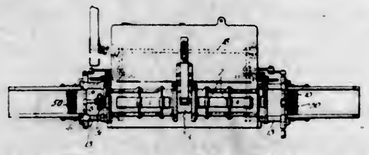
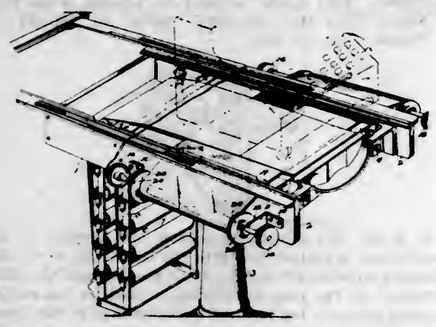


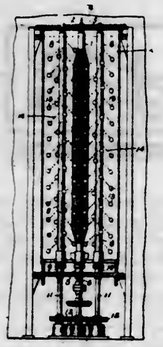
table in timed relation with the oscillation of the suction plate and its supporting arm to place the rolls in position to grasp the end of the sheet, means for releasing the sheet from the suction plate at the time it is grasped by the feed rolls, and a receiver to which the sheet is delivered by the rolls.

1,373,870. ATTACHMENT FOR BILLING-MACHINES. MILLARD J. DOWNEY, Chicago, Ill. Filed June 26, 1919. Serial No. 306,926. 9 Claims. (Cl. 197—126.)



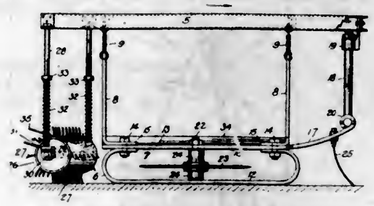
1. The combination with the platen support of a writing machine, of paper storage rolls mounted at the opposite sides of the said supports, and means supporting the rolls for reversal end for end.

1,373,871. APPARATUS FOR CLEANING STIRRING-RODS. CLARENCE B. DUTTON, New York, N. Y. Filed July 3, 1916. Serial No. 107,451. 3 Claims. (Cl. 29—81.)



1. In an apparatus for cleaning stirring rods, the combination of means for rotating the rod to be cleaned, a shaft arranged substantially parallel with the stirring rod; means for rotating said shaft and a plurality of balls flexibly connected to the shaft at suitable intervals along its length and adapted to impinge against the stirring rod on the rotation of the shaft.

1,373,872. BEET-TOPPER. JAMES L. EAST, Denver, Colo. Filed Mar. 25, 1920. Serial No. 368,780. 19 Claims. (Cl. 55—107.)



1. A beet topper comprising a sled composed of connected runners, and rotary cutting disks reversibly mounted on the runners and each having two hubs of different heights.

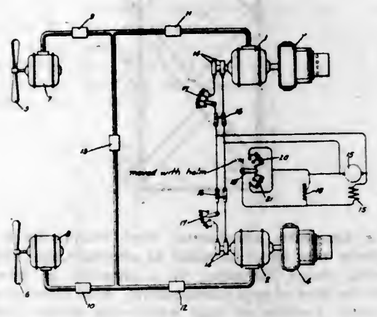
2. A beet topper comprising a frame, a sled having a universal movement thereon, and a cutting element on the sled.

10. A beet topper comprising a frame, a sled composed of runners having forwardly extended draw bars, a pivoted yoke on the frame, in pivotal connection with said draw bars, and a cutting element on the sled.

13. A beet topper comprising a sled, a cutting element thereon, and rearward of the sled, an element adapted for moving severed beet tops to one side, and yieldably mounted for up and downward motion.

16. A beet topper comprising two normally rigidly connected runners, a pair of coöperating cutting disks rotatably mounted on said runners, and means to adjust the distance between the runners whereby to vary the cooperative relation of the cutting disks.

1,373,873. SHIP PROPULSION. WILLIAM L. R. EMMET, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 29, 1920. Serial No. 385,343. 4 Claims. (Cl. 172—8.)



3. A system of electric ship propulsion, comprising an alternating current generator, a propeller on each side of the ship, an alternating current motor coupled to each propeller and adapted to be electrically connected to said generator, and means coöperatively related to the steering mechanism for affecting the system to control the torque characteristic of the motors to keep them from falling out of step when the helm is thrown substantially to alter the course of the ship.

4. A system of electric ship propulsion comprising a propeller on each side of the ship, an induction motor arranged to drive each propeller, an alternating current generator arranged to supply current to each of said motors and means for increasing the generator excitation when the helm is thrown to change the course of the ship.

1,373,874. SAFETY-RAZOR. CARL O. ENGSTROM, Sacramento, Calif. Filed Apr. 21, 1920. Serial No. 375,425. 5 Claims. (Cl. 30—12.)



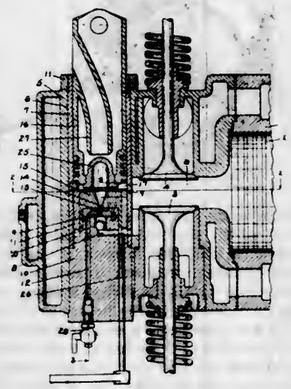
1. A safety razor comprising a frame providing a head, a handle connected therewith, a bed pivotally mounted within the frame, a guard carried by the frame adjacent one edge of said bed, a blade supported by said bed and arranged with its cutting edge overlying the edge of the bed and lying adjacent to said guard, means for holding said blade to the bed, and means for adjusting the bed on its fulcrum to swing the cutting edge thereof relatively to the guard.

1,373,875. RAIL-SPIKE. EDWARD F. FALLON, Harrisonburg, Va. Filed Dec. 8, 1919. Serial No. 343,239. 6 Claims. (Cl. 85—21.)



1. A rail spike having a head and a shank, said shank being uniformly tapered inwardly from its driving end to its rear end, the greatest cross sectional area of said shank being immediately below said head.

1,373,876. INTERNAL-COMBUSTION ENGINE. EDWARD A. FIELD and EDWARD A. FIELD, Jr., Oak Park, Ill. Filed June 21, 1920. Serial No. 390,612. 14 Claims. (Cl. 123—33.)



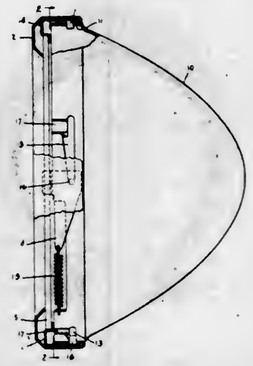
1. In an internal combustion engine, the combination with a cylinder provided with an air inlet valve, an exhaust valve and a coacting piston, of a cylindrical charging chamber member having spirally disposed ports delivering to said cylinder, a cylindrical charging valve arranged within said charging chamber member to control said ports, said charging valve being subject to the pressure within said charging chamber and within said cylinder whereby it is actuated to control said ports, a charging air passage from said cylinder to said charging chamber, a fuel nozzle operatively associated with said air charging passage whereby a charge of fuel is vaporized and delivered to said charging chamber on the compression stroke of the piston, said charging valve being closed by the pressure of said charging stroke, a plunger-like charging chamber adjusting member arranged in said charging chamber member in an opposed relation to said charging valve, an ignition member for said charging chamber carried by said adjusting member and alined with the charging nozzle whereby the charge is ignited in said charging chamber and pressure generated to open said charging valve and eject the charge into the cylinder, and an adjustable stop for regulating the opening of said charging valve.

1,373,877. CORE FOR MOLDING HOLLOW WALLS. JASPER E. FIFIELD, San Diego, Calif. Filed June 12, 1920. Serial No. 388,613. 8 Claims. (Cl. 25—128.)



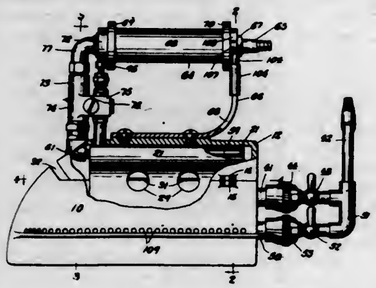
7. A device of the class described, including four plates, each provided with a right angled turn, two of said members provided with downwardly, enlarging, inclined edges and the other two members with upwardly, enlarging, inclined edges conforming to the edges on the first two mentioned plates.

1,373,878. LAMP CONSTRUCTION. HARRY C. FOSTER, Connersville, Ind., assignor to Indiana Lamp Company, Connersville, Ind. Filed Mar. 13, 1920. Serial No. 365,501. 3 Claims. (Cl. 240—41.)



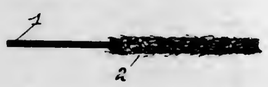
1. In a lamp construction the combination with a casing, and a lens rim adapted to be securely fastened over the face of said casing, of yielding means for normally maintaining said rim in locked position and permanently tying it to said casing after its removal therefrom.

1,373,879. STEAMER, CLEANER, AND PRESSER. GEORGE FRANKS and OSCAR SPROESSIG, New York, N. Y. Filed Dec. 13, 1919. Serial No. 344,521. 4 Claims. (Cl. 68—26.)



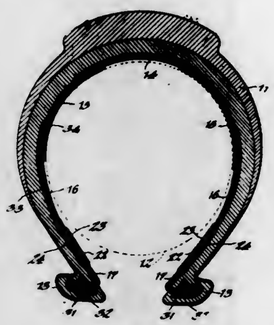
1. In a device of the class described, a suitable casing, a hollow U-shaped steam generator in and independent of said casing, means for supplying water to the generator, the bottom of the casing being provided with a plurality of discharge apertures, means connected with said generator and the bottom of the casing for placing said discharge apertures in communication with said generator whereby the steam in said generator may be discharged through the bottom face of said casing, and burner devices mounted within the casing and said generator for independently heating the bottom of said casing and said generator.

1,373,880. TEXTILE FABRIC. ISRAEL GARON, Duluth, Minn. Filed Dec. 2, 1919. Serial No. 342,004. 4 Claims. (Cl. 28—5.)



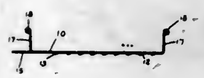
4. As a new article of manufacture, a yarn comprising an elastic rubber core and a cover of fibrous material spun upon and around said core.

1,373,881. ARMOR FOR PNEUMATIC TIRES. MICHAEL J. GILLICE, Buffalo, N. Y. Filed Mar. 10, 1920. Serial No. 364,649. 3 Claims. (Cl. 152—18.)



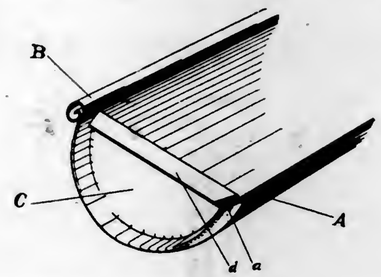
1. A tire-armor, comprising overlapping tread and side plates extending continuously around the armor and slidable laterally on one another, means for loosely connecting adjoining plates, annular base plates spaced from the adjacent side plates, flexible connections between said base plates and the adjacent side plates, and a covering strip extending over said flexible connections.

1,373,882. PARING DEVICE. ROBERT C. GLASSCO, Anderson, Ind., assignor of two-thirds to Computing Cheese Cutter Company, Anderson, Ind., a Corporation. Filed Dec. 23, 1919. Serial No. 346,857. 6 Claims. (Cl. 146—15.)



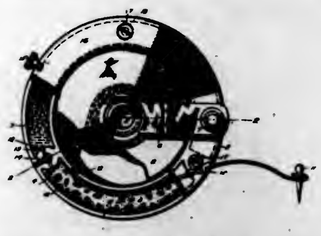
1. In a paring device, the combination of a plate provided with a hand engageable end extending angularly of the plate and a lug formed from the angularly extending end and extending angularly of said end to form a finger support.

1,373,883. ATTACHMENT FOR EAVES-TROUGHS. WILLIAM GRAY, Rochester, N. Y. Filed May 13, 1920. Serial No. 381,186. 4 Claims. (Cl. 108—28.)



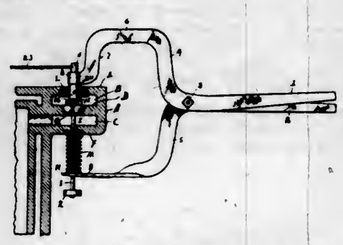
3. An integral end closure for eaves troughs consisting of an approximately semi-circular plate having a flange at its curved edge bent upon itself forming a groove to receive the end of the trough, and a stiffening flange along its straight edge.

1,373,884. MARKING-LINE. WILLIAM F. GREGORY, San Francisco, Calif., assignor of eighty-five per cent. to Charles A. Levy, Newark, N. J., five per cent. to John Boegershausen, San Francisco, Calif., and ten per cent. to Grace Mosher, San Francisco, Calif. Filed Oct. 22, 1919. Serial No. 332,553. 5 Claims. (Cl. 33—87.)



1. A device of the character described comprising a reel, a holder in which the reel is turnably mounted, there being an annular chamber formed in the holder exterior of the reel, partition members in said chamber dividing the chamber into two separate chambers, there being a pair of openings formed in the holder and communicating with one of the chambers, a marking line adapted to be received by the reel and having one end secured thereto, said line having its free end passing through said last named openings, means permitting filling of the chamber with a colored liquid, and means in said holder for delivering said liquid to the chamber through which the line passes to apply the liquid to the line.

1,373,885. VALVE-LIFTER. FRANK M. HANDLY, Edinburg, Ind. Filed Aug. 13, 1920. Serial No. 403,202. 3 Claims. (Cl. 29—86.3.)



1. A valve lifting tool comprising a pair of crossed handles pivoted together, a notched plate carried by one of the handles and adapted to be inserted astride a valve-stem for engagement with the valve-spring, an arm and a finger carried by the other one of said handles, a bearing carried by said finger, rotatable means mounted in said bearing, means for revolving said rotatable means, and a removable bit connected to said rotatable means and adapted to engage a valve for holding the valve in its seat and enabling the valve to be turned, all substantially as shown and described.

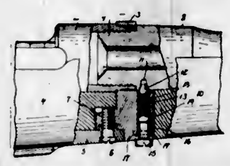
1,373,886. SULFONATED RESIN AND METHOD OF MAKING THE SAME. ALEXANDER HORWITZ, New York, N. Y. Filed Nov. 19, 1918. Serial No. 263,170. 4 Claims. (Cl. 134—26.)

2. The method herein described of producing a sulfonated resin which is soluble in water by the treatment of resin with sulfuric acid, substantially as described.

1,373,887. PROCESS OF FILTRATION. DIBRELL P. HYNES, Chicago, Ill., assignor to Roseberry Surprise Mining Co. Ltd., Sandon, British Columbia, Canada, a Corporation of British Columbia, Canada. Filed Jan. 26, 1920. Serial No. 354,300. 6 Claims. (Cl. 75—18.)

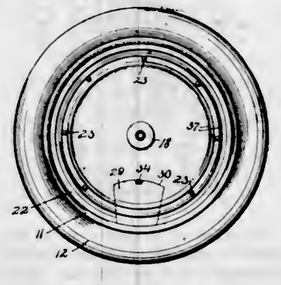
1. The process of preparing for filtration a pulp containing solid and colloidal substances, which consists in adding to a pulp substantially free from acid, a basic compound of zinc, to change the colloidal substances to a form which does not inhibit filtration.

1,373,888. TAKEDOWN GUN. THOMAS C. JOHNSON, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed May 22, 1920. Serial No. 383,353. 1 Claim. (Cl. 42—75.)



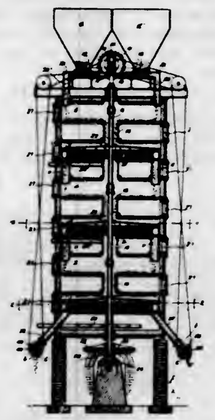
In a take-down gun having a receiver-unit and a barrel-unit, the combination with a receiver provided at its forward end with a threaded opening and a depending abutment-lug, and a barrel provided at its rear end with a threaded shank adapted to be screwed into the said receiver, and also provided with an integral collar located immediately in front of the said shank and formed with a frusto-conical recess; of a take-down screw mounted in the said abutment-lug and provided with a frusto-conical nose adapted to enter the said frusto-conical recess, whereby after the receiver and barrel units have been manually screwed together and while the said take-down screw is being turned home, the wedge-like action of its frusto-conical nose upon the side walls of the frusto-conical recess will relatively rotate the barrel and receiver-units until they are brought into predetermined relative position, and whereby the threads of the receiver and barrel take the shocks of recoil and protect the said nose of the take-down screw from deformation thereby.

1,373,889. GUARD FOR WHEELS. JOHN O. JOHNSTON, Newark, N. J., assignor to The J. J. Disc-Wheel Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 28, 1919. Serial No. 273,574. 6 Claims. (Cl. 301—37.)



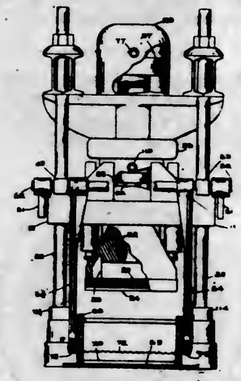
1. A guard for wheels comprising members fitting against the rim of the wheel and covering opposite sides of the wheel within the rim, studs fitting in alined openings in said members and covering the openings, and springs connecting the studs and detachably secured to at least one of each pair of alined stubs.

1,373,890. OIL-SHALE RETORT. FRANK JONES, Salt Lake City, Utah. Filed May 29, 1918. Serial No. 237,304. 9 Claims. (Cl. 196—19.)



1. A continuous retort for the destructive distillation of oil-sands and oil-shale, said retort comprising a series of superposed intercommunicating annular hearths, a combustion or heating chamber interposed between said hearths, the floors of said hearths constituting the roofs of the heating or combustion chamber, and means for advancing the material from one hearth to another, said means including a hollow central shaft having hollow arms radiating therefrom and provided with rabbles, and means for supplying steam to said shaft and arms, said arms being perforated to allow steam to be directed onto the material being treated.

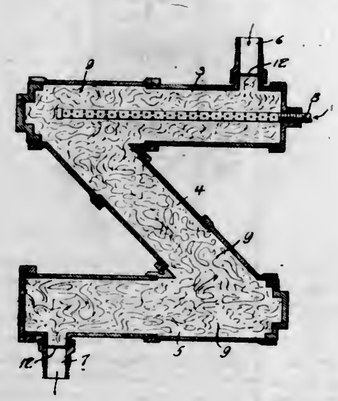
1,373,891. WARE-MOLDING APPARATUS. GEORGE C. KALBFLEISCH, Tiffin, Ohio, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Aug. 22, 1918. Serial No. 251,026. 27 Claims. (Cl. 25—63.)



1. In the manufacture of ware, supply means for unformed material, control means coacting with the supply means for measuring the material movable away from the supply means, a mold, and means effecting distribution of said measured supply of unformed material into the mold, means for closing the mold and pressing the material to form therein, means for giving the material in the mold a supplementary pressure, and means for removing the formed material from the mold.

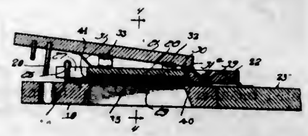
27. An automatic machine for forming pottery comprising a press, provided with opposing plungers, a mold intermediate the plungers to be closed thereby, hydraulic actuating means for the plungers, hydraulic pressure increasing means for holding the plungers in mold closing position, means for applying hydraulic compacting pressure in the mold to bring the material therein to ware form, a drive device controlling said means in sequence for forming the ware and opening the mold, and a ware support movable with a plunger in removing formed ware from the mold.

1,373,892. LIQUID-CARBONATING APPARATUS. MORTON S. KIMBEL, Oakland, Calif. Filed Dec. 18, 1917. Serial No. 207,694. 3 Claims. (Cl. 261—96.)



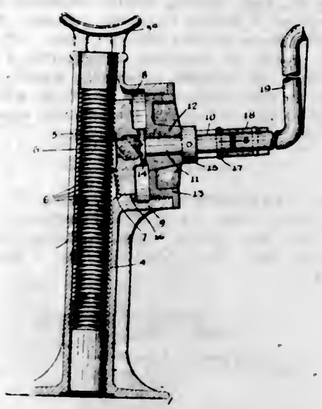
1. An apparatus for carbonating liquid, comprising a vertical chamber having a horizontal upper compartment, a lower compartment parallel thereto and an oblique compartment connecting diagonally opposite ends of the said compartments at an angle of about 45° to form sharp return flow currents in the flowing liquid, inlet and outlet means for the liquid, means for supplying carbonating gas to the upper compartment, and a filling in the chamber for intimately mixing the gas and liquid.

1,373,893. PHOTOGRAPHIC-PRINTING APPARATUS. FRED V. KOEPKE, Lamoille, Ill. Filed Nov. 3, 1919. Serial No. 335,403. 8 Claims. (Cl. 95—73.)



8. In a photographic printing apparatus, the combination of a support, a glazing on said support, a light-source on one side of said glazing, a frame on the other side of said glazing having an opening therein for receiving and locating a sensitized sheet, a mask comprising a thin unitary opaque sheet secured to said frame, means for securing said frame to said support, the arrangement being such that the mask is adapted to clamp a film interposed between the mask and glazing, and a suitable pad member hinged to said frame and fitting in said opening for resiliently clamping a sensitized sheet in contact with the surface of the mask and the disclosed surface of the film.

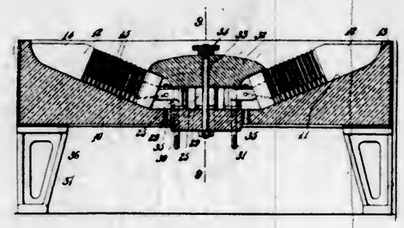
1,373,894. JACK. JOHN C. KOPF, Bellevue, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1919. Serial No. 332,512. 1 Claim. (Cl. 254—96.)



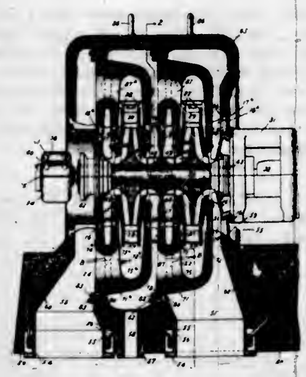
A jack comprising a stand, a rack-bar guided therein and carrying a lifting seat, and operating means comprising a tilted convex spiral face pinion mounted in the stand and meshing at its upper part with the rack, the periphery of the pinion being smooth and circular, and the stand having a bearing beneath said periphery.

1,373,895. ELECTRIC-HEATER UNIT. LESLIE VICTOR LEONARD, Richmond, Victoria, Australia. Filed July 1, 1919. Serial No. 308,043. 15 Claims. (Cl. 219—34.)

1. In an electric heater, a refractory base, an insulating refractory support arranged on said base so as to permit of air circulating therebetween and from the under to the upper side of the base, and an electric conductor arranged wholly on the exposed side of said support.



1,373,896. CENTRIFUGAL COMPRESSOR AND THE LIKE. LOUIS C. LOEWENSTEIN, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 5, 1919. Serial No. 335,876. 16 Claims. (Cl. 230—11.)



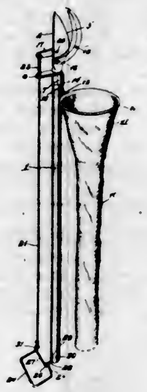
1. A machine of the character described, having its casing made chiefly of concrete but having means forming a continuous metallic structure which defines the clearances of the machine, and bearings carried by said metallic structure.

1,373,897. KEY. WILLIAM A. LOTZ, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Aug. 10, 1918. Serial No. 249,255. 3 Claims. (Cl. 70—9.)



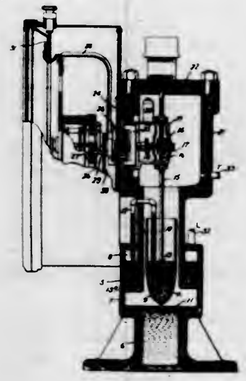
1. An improved key comprising a main solid cylindrical shank, said shank being provided with a flattened-out end-portion, said flattened-out portion being formed with a bit-extension and a centering stud, all being made from a single piece.

1,373,898. FRUIT-PICKER. QUEENIE MCCRIE, deceased, Sarnia, Ontario, Canada, by William McCrie, administrator, Sarnia, Canada, assignor of one-half to May McCrie, Sarnia, Ontario, Canada, and one-half to William O. Sheets, Clivale, Alberta, Canada. Filed Oct. 4, 1919. Serial No. 328,572. 2 Claims. (Cl. 56—336.)



1. In a fruit picker, the combination including a staff and a gathering receptacle coextensive therewith, of a fixed cutter blade projecting from the upper end of the staff and in line therewith, a ferrule engaged over the upper end of the staff and securing said fixed cutter blade in position thereon, a movable cutter blade pivotally supported on said fixed cutter blade, a guide pin mounted on said fixed cutter blade and in engagement with a guide slot formed in said actuating lever, a guide arm projecting radially of said ferrule, an operating rod coextensive with the staff and movable in said guide arm and connecting said actuating lever, a spring associated with said operating rod between said actuating lever and said guide arm and normally tensioning said actuating lever to hold the movable cutter blade in operative position with respect to said fixed cutter blade, and an operating crank pivoted at the lower end of the staff and connecting said operating rod.

1,373,899. FLOW-METER. JACOB W. MCNAIRY, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 4, 1919. Serial No. 328,443. 6 Claims. (Cl. 73—167.)



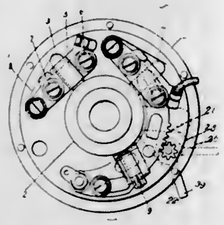
1. In a flow meter, a casing, a float well therein containing a liquid, a float which rides on the liquid and comprises a displacing portion and a cup, an annular cham-

ber in the casing concentric with said float, a tube connecting said cup and chamber for transferring liquid from one to the other, and leading and trailing pipe connections for said chamber and cup.

1,373,900. MANUFACTURE OF DETERSIVE AND EMULSIVE AGENTS. ROBERT MACPHERSON, Brondesbury, and WILLIAM E. HEYS, Bushey, England. Filed May 23, 1916. Serial No. 99,409. 4 Claims. (Cl. 87—5.)

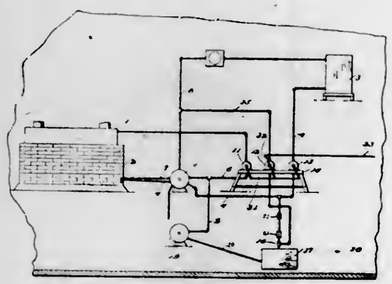
1. The process of producing a detersive and emulsive agent from vegetable materials which consists in mixing, in the cold, the said materials in pulverized form with solid caustic alkali with the addition of only sufficient water to effect the reaction without the application of heat.

1,373,901. DYNAMO-ELECTRIC APPARATUS. CHARLES MARCUS, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed June 27, 1918. Serial No. 242,157. 13 Claims. (Cl. 171—324.)



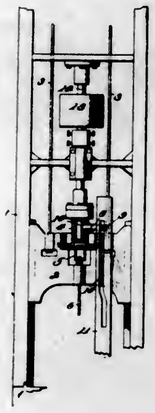
1. In an extra brush generator, in combination, an end head, main brushes, a plate, studs in said end head passing through arcuate slots in said plate, for permitting adjustment of said plate, an extra-brush box insulatedly supported by said plate, an extra brush in said box, an arcuate rack on said plate, a pinion operable from the exterior of said end head, to adjust the position of said extra brush and means apart from said plate and said rack for resisting rotation of said pinion.

1,373,902. SAFETY FIRE-STOP VALVE. HARVEY GRANGER MAULE, Seattle, Wash., assignor of one-half to Reginald A. Pearce, King county, Wash. Filed May 10, 1920. Serial No. 380,325. 4 Claims. (Cl. 158—36.)



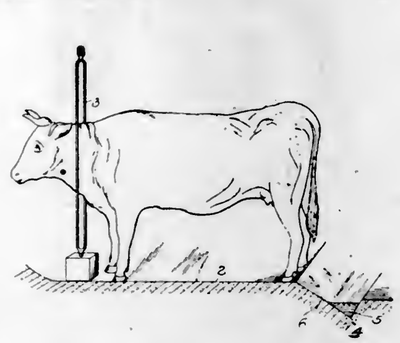
1. In an oil burning system, an oil supply tank, a pump for delivering oil therefrom under pressure to a burner, a motive fluid for the pump, a suction tank, a communication between said suction tank and the oil system, a normally open valve for the oil from the supply tank, a normally open valve for the motive fluid for the pump, and a normally closed valve controlling communication with the suction tank.

1,373,903. CLAY-PRESS. RALPH F. MEYER, Freeport, Pa. Filed May 2, 1919. Serial No. 294,300. 5 Claims. (Cl. 25—27.)



1. In a clay press, the combination with a die member, of a hollow mold adapted to contain plastic material and coöperating with said die member for forming a longitudinal opening in said plastic material, means for moving said mold toward and away from the die member, a plunger movable toward and away from the interior of said mold, and automatically actuated means for reciprocating said plunger.

1,373,904. ANIMAL-STALL. RALPH MILLER, Boulder, Colo. Filed Dec. 5, 1919. Serial No. 342,667. 1 Claim. (Cl. 119—27.)

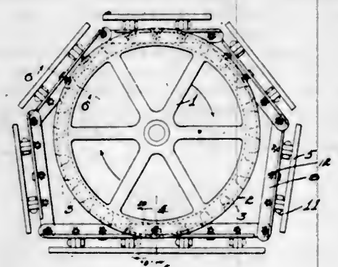


In combination, an animal stall, a gutter rearward thereof, a surface sloping gradually from the rear end of the stall-floor to the gutter, and means at the head-end of the stall, adapted to fasten an animal therein so that its excrement must fall clear of the floor, said surface being sufficiently wide to prevent the animal from stepping rearwardly beyond it.

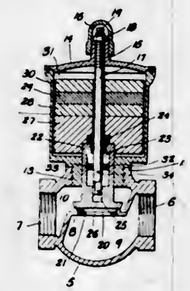
1,373,905. TRACTOR-WHEEL. ROYAL R. MILLER, Chicago, Ill., assignor, by mesne assignments, to Miller Traction Tread Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 8, 1919. Serial No. 322,520. 3 Claims. (Cl. 305—6.)

1. A vehicle drive wheel comprising an annulus, gear teeth thereon of less width than the annulus, link tread members adapted to be engaged by the periphery of the annulus, means associated with the tread members and

adapted to be engaged between the gear teeth, and means movable relative to each of a pair of adjacent tread members for connecting the same, whereby a true rolling relation between the tread members and the annulus is maintained.

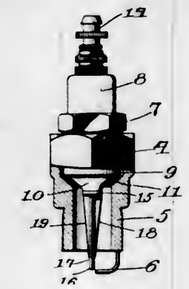


1,373,906. HIGH-PRESSURE GOVERNOR-VALVE. JOSEPH NEEDHAM, New York, N. Y. Filed Aug. 13, 1919. Serial No. 317,252. 5 Claims. (Cl. 251—146.)



5. A valve device of the class described comprising a valve casing having a passage, a valve for controlling said passage and having an integral plunger body in which is a piston chamber, a stationary piston rod passed into said plunger body and through said chamber, a piston mounted on said rod within said chamber, and means coöperating with the plunger body of said valve for normally holding the same in a closed position under predetermined pressure.

1,373,907. ELECTRODE FOR SPARK-PLUGS. JOHN V. OSTERHOUT, Bridgeport, Conn. Filed Dec. 8, 1919. Serial No. 343,152. 5 Claims. (Cl. 123—169.)

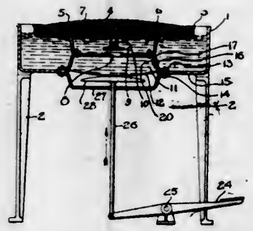


1. In a spark plug including a jacket, a lock-nut and a core, an electrode mounted in said core, said electrode having an extended bearing against the surface of the core and bearing braced against distortion.

1,373,908. MANUFACTURE OF STEEL. ALADAR PACZ, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Aug. 17, 1917. Serial No. 186,723. 16 Claims. (Cl. 75—1.)

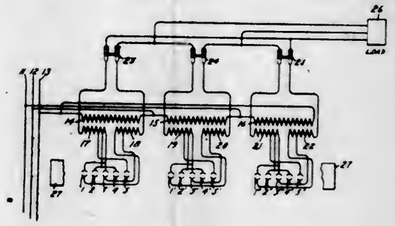
16. A steel containing tungsten, niobium and tantalum, the tungsten being in the proportion of four to eight per cent., the niobium two to four per cent., and the tantalum three to six per cent.

1,373,909. COOLER FOR PHOTOMECHANICAL PRINTING-PLATES. FRANK T. POWERS, New York, N. Y. Filed Aug. 11, 1919. Serial No. 316,682. 10 Claims. (Cl. 62—11.)



1. A cooler for photo-mechanical printing plates, including in combination a convexly spheroidal, fluid-pervious member over which the manually held plate may be freely moved, and means for supplying cooling fluid thereto.

1,373,910. SYSTEM OF DISTRIBUTION. WILBUR A. PRESSEY, Boston, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 23, 1920. Serial No. 375,973. 6 Claims. (Cl. 171—119.)



1. In a system of distribution comprising a source of polyphase alternating current, a plurality of primary and secondary coils for transforming the voltage of said source, the secondary coils being connected in closed delta for supplying a load, the method of varying the ratio of transformation without disconnecting the load, which consists in opening the delta by disconnecting one of said coils therefrom, varying the number of turns on said coil, reconnecting said coil into the delta, and repeating this operation in succession with each secondary coil.

1,373,911. MEANS AND METHOD FOR SUPPLYING LIQUID FUEL TO EXPLOSIVE-MOTORS. JOSEPH PERCY REMINGTON, Philadelphia, Pa., assignor to Remington Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 26, 1919. Serial No. 299,836. 10 Claims. (Cl. 158—36.)

1. Means for supplying a liquid fuel to an explosive motor, comprising the combination of a motor provided with a carbureter, a reservoir for liquid fuel at a lower elevation than the carbureter, a chamber at a higher elevation than the carbureter, a pipe leading from the lower part of the chamber to the carbureter, a pipe leading from the lower part of the chamber to the reservoir, a

pipe leading from the upper part of the chamber and communicating with a cylinder of the motor whereby rapid alternating impulses of suction and pressure are exerted in said pipe during the normal operation of the motor, valve means for permitting the liquid fuel to flow from the reservoir into the chamber and normally preventing flow in the opposite direction, and a valve device



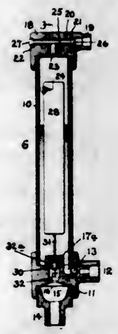
for alternately providing communication between the chamber and the atmosphere on the one hand and the pipe communicating with the motor cylinder during its suction cycle on the other hand, said valve device arranged for synchronous reciprocation with each change from pressure to suction in the cylinder of the motor, and vice versa.

1,373,912. MEANS FOR SUPPLYING LIQUID FUEL TO EXPLOSIVE-MOTORS. JOSEPH PERCY REMINGTON, Philadelphia, Pa., assignor to Remington Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 26, 1919. Serial No. 299,837. 6 Claims. (Cl. 158—36.)



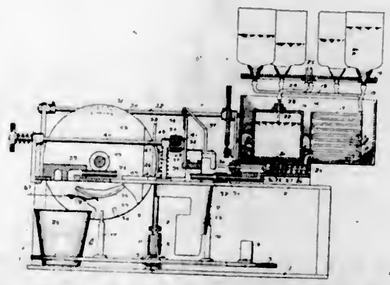
1. Means for supplying liquid fuel to an explosive motor, comprising the combination of a motor provided with a carbureter, and a reservoir for liquid fuel at a lower elevation than the carbureter, combined with a chamber at a higher elevation than the carbureter, a pipe leading from the lower part of the chamber to the carbureter for supplying liquid fuel thereto, a pipe leading from the reservoir to the lower part of the chamber, a freely operating gravity actuated check valve interposed between the chamber and reservoir to permit flow of liquid fuel from the reservoir into the chamber and prevent backflow therefrom, a pipe leading from the upper part of the chamber and connecting with a cylinder of the motor whereby rapid alternating impulses of suction and pressure are exerted in said pipe during the normal operation of the motor, and a valve device for providing rapid alternating communication between the upper part of the chamber and the atmosphere on one hand and the pipe connecting with the motor cylinder during its suction cycle on the other hand, said valve device arranged for synchronous reciprocation with each change from pressure to suction and vice versa, in the cylinder of the motor.

1,373,913. MEANS FOR SUPPLYING LIQUID FUEL TO EXPLOSIVE-MOTORS. JOSEPH PERCY REMINGTON, Philadelphia, Pa., assignor to Remington Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 26, 1919. Serial No. 299,838. 4 Claims. (Cl. 158—36.)



1. Means for supplying liquid fuel to an explosive motor, comprising a motor provided with a carbureter, and a reservoir for liquid fuel at a lower elevation than the carbureter, in combination with a float chamber at a higher elevation than the carbureter, a pipe leading from the lower part of the float chamber to the carbureter for supplying liquid fuel thereto by gravity, a pipe for supplying liquid fuel from the reservoir to the float chamber, a pipe leading from the upper part of the float chamber and connecting with the cylinder of the motor whereby rapid alternating impulses of suction and pressure are exerted in said pipe during the normal operation of the motor, valve devices for alternately providing communication between the float chamber and the atmosphere on the one hand and the pipe connecting with the motor cylinder during its suction cycle on the other hand and said valve devices arranged for synchronous reciprocation with each change from pressure to suction and vice versa, in the cylinder of the motor, a float in the float chamber, and a valve operated by the float for automatically controlling the flow of liquid fuel between the reservoir and float chamber to prevent flow of said fluid into the float chamber when the maximum level therein has been reached and to prevent flow of fluid from the float chamber back to the reservoir when a normal or lower level in the float chamber has been reached.

1,373,914. LIQUID-VENDING MACHINE. JULIUS S. SAMUELSON, Duluth, Minn. Filed Jan. 26, 1920. Serial No. 353,038. 4 Claims. (Cl. 226—19.)



1. In combination a suitable support, a cooling receptacle, a liquid supply, a measuring cup, a drinking cup,

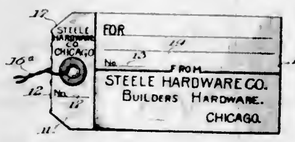
means for automatically emptying the measuring cup into the drinking cup, means for automatically supplying the cups to be filled, an operating motor, an electric circuit for the motor, means whereby the deposit of a coin will close the circuit and start the motor and a second means for closing the circuit and completing the operation of the machine.

1,373,915. BURIAL-RECEPTACLE. LOUIS SCHAFER, St. Louis, Mo. Filed June 17, 1920. Serial No. 389,568. 4 Claims. (Cl. 27—35.)



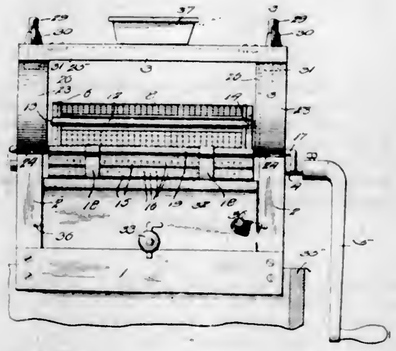
1. A burial receptacle comprising a member providing a platform having a depending wall and having a grooved portion at the lower end of said wall, and a coöperating member having a part to seat in but not fill said groove, whereby the air inclosed within said members when assembled resists the upward passage of water between said wall and coöperating member.

1,373,916. SHIPPING-TAG. STROWBRIDGE B. SEATON, Chicago, Ill., assignor to International Tag Co., Chicago, Ill., a Corporation of New Jersey. Filed Mar. 17, 1919. Serial No. 283,175. 13 Claims. (Cl. 40—6.)



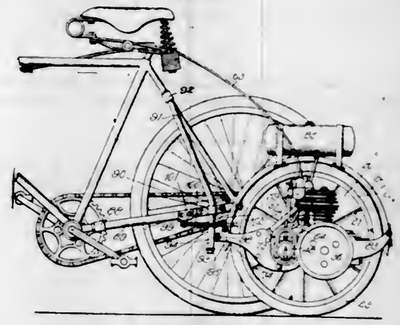
4. A shipping tag comprising separably connected portions, each portion being adapted to receive a member whereby both portions may be attached to an article, said portions being connected together, one portion of the tag being detachable from the other portion at the connection when a strain sufficient to release it from said member is exerted thereon, and each portion of the tag having means of identification provided thereon.

1,373,917. WASHING-MACHINE. JOHN W. SEIFERT, Houston, Tex. Filed Mar. 27, 1920. Serial No. 369,288. 5 Claims. (Cl. 68—23.)



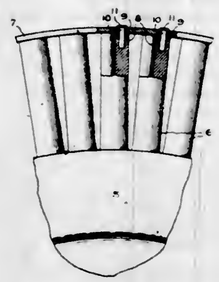
1. A washing machine including a base, standards rising therefrom, a rotary rubbing drum supported by the standards, a foraminous concave rubbing bed of flexible material embracing the lower portion of the drum, springs centrally mounted upon the uprights and having curved or bowed ends extending downwardly therefrom and connected at their free ends with the edges of the rubbing bed on opposite sides of the rotary rubbing drum, and means adjustably mounted upon the uprights for engaging and regulating the bowing curvature of the ends of the springs so as to vary the drawing tension of such ends of the spring upon the concave rubbing bed.

1,373,918. MOTOR-WHEEL FOR BICYCLES. REUBEN STANLEY SMITH, Milwaukee, Wis., assignor to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 20, 1914. Serial No. 857,692. 44 Claims. (Cl. 180—11.)



35. In combination, a bicycle, independent driving apparatus therefor including a driving wheel and universally flexible means for connecting said bicycle and apparatus together, said means normally holding the driving wheel substantially parallel to the bicycle.

1,373,919. ELASTIC-FLUID TURBINE. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 15, 1920. Serial No. 396,385. 2 Claims. (Cl. 253—77.)

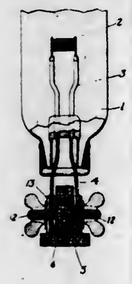


1. In an elastic fluid turbine, a rotor, a ring of buckets thereon, said buckets having flared holes in their outer ends, a bucket cover, and pins fastened in said holes and forming tenons for fastening the bucket cover in place.

1,373,920. MOUNTING FOR INCANDESCENT LAMPS. ROYAL F. STRICKLAND, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Mar. 6, 1917. Serial No. 152,774. 3 Claims. (Cl. 240—41.)

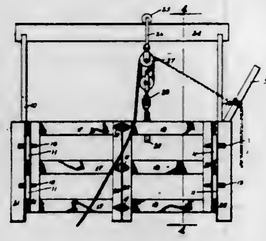
1. In an illuminating arrangement for projection apparatus the combination of an incandescent lamp having a monoplane filament and a lamp mounting, with leading-

in conductors projecting through the lamp base and serving as supports therefor adapted to be received by sockets in the lamp mounting whereby the lamp may be properly



alined with reference to the optical axis of the projection apparatus merely by the insertion of the lamp leads in the socket.

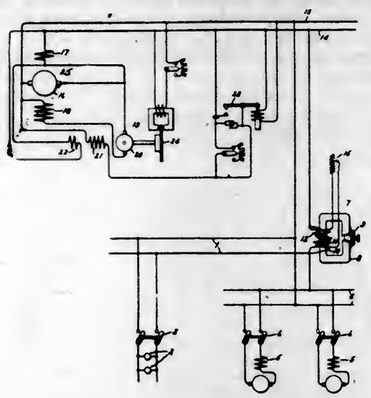
1,373,921. BREEDING-CRATE. GEORGE H. STULTZ, Winterset, Iowa. Filed Feb. 14, 1921. Serial No. 444,844. 5 Claims. (Cl. 119—98.)



1. In a crate of the class described, the combination of two crate end members having upper and lower transverse boards, each provided with a series of openings therein, a stationary side crate member having openings therein designed to receive the ends of the boards of said end members, pins detachably mounted in the holes for adjustably securing the side member in position relative to the said end members, a second side member comprising one stationary side member portion and a gate portion, the latter being hinged to the stationary side member portion, and both portions of the latter side member being provided with openings through which the ends of the horizontal boards of the gate end members are extended, and pins for detachably and adjustably securing both the stationary and the hinged side members in position relative to the end members, for the purposes stated.

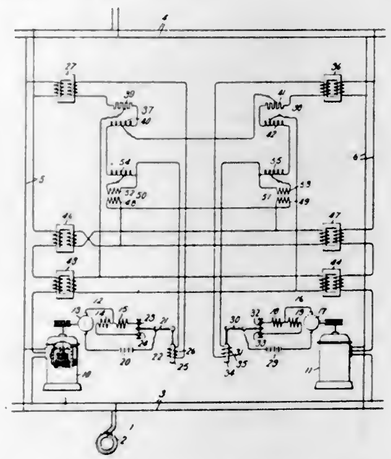
1,373,922. MEANS FOR PREVENTING VOLTAGE FLUCTUATIONS IN DISTRIBUTING-CIRCUITS. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 18, 1918. Serial No. 235,250. 6 Claims. (Cl. 171—312.)

6. In combination, a direct current generator, regulating means for controlling the excitation of said generator, a circuit from which a load requiring substantially constant voltage is energized, a circuit from which a load drawing variable current is energized, means for connecting said generator to said circuits, and means responsive to variations in the current in the latter circuit for inducing voltages in the former circuit comprising a magnetic core provided with a plurality of inductively related windings, one of which is located in the first mentioned



circuit, another of which is located in the second mentioned circuit, and means for controlling the rate of change of flux in said core.

1,373,923. ELECTRICAL SYSTEM OF POWER TRANSMISSION. MAGNUS UNGER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 14, 1920. Serial No. 388,732. 7 Claims. (Cl. 171—119.)



1. In an electrical system, a distribution circuit, a source of alternating current, a plurality of feeder circuits connecting said distribution circuit and said source, a voltage modifying means interposed in each one of said feeder circuits, and means responsive to a circulating current flowing between said feeder circuits for automatically regulating said voltage modifying means.

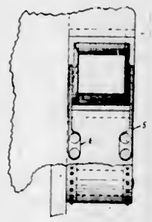
1,373,924. COMPRESSOR. PEIRCE VAN VLECK and HOWARD COOPER, Baltimore, Md., assignors to William H. Peirce, Baltimore, Md. Filed June 16, 1920. Serial No. 389,371. 4 Claims. (Cl. 230—18.)

3. A fluid piston compressor comprising two compression chambers, each of which is provided with a cylinder communicating therewith, a gas inlet and a gas discharge for each cylinder, a float-piston within each cylinder having its interior in communication with a gas inlet and a gas discharge and a compression chamber, a float-valve within each float-piston adapted to shut off communication between the gas discharge and interior of said hollow piston, a valve chest, an independent passage connecting the valve chest with each compression chamber at a point opposite to that of the cylinder, a combined oscillating and reciprocating valve having high and low fluid pressure ports and within said chest, a link passing through each compression chamber and independent passages and con-



necting said float-piston with the combined oscillating and reciprocating valve for oscillating the valve by movement of the float-piston, high and low fluid pressure ports communicating with the interior of said chest and provided with passageways so constructed, arranged and disposed to coöperate with said valve within the chest and ports in the valve to reciprocate said valve within the chest when oscillated by the float piston and alternately fill the compression chambers with the fluid under pressure and exhaust the same and permit the fluid to enter and discharge from the chest.

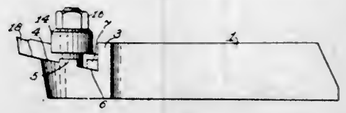
1,373,925. FILM-EXPANDING PRESSURE-GUIDE. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed June 9, 1917. Serial No. 173,764. 5 Claims. (Cl. 88—17.)



1. A film guide member having inclined grooves to engage a film when fed through the guide, said grooves operating to draw the film taut.

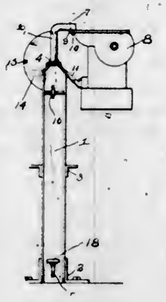
1,373,926. ADJUSTABLE TOOL-HOLDER. FRANK WERMES, Waterloo, Iowa. Filed July 10, 1920. Serial No. 395,317. 2 Claims. (Cl. 29—96.)

1. A tool-holder, comprising a shank, a bearing-head thereon offset at an angle thereto and having integral triangular transversely-spaced buttresses at said angle, also having a rearwardly and downwardly inclined longitudinal passage leading from the interspace of said buttresses rearwardly through the shank, and means for releasably securing a tool adjustably upon said bearing-



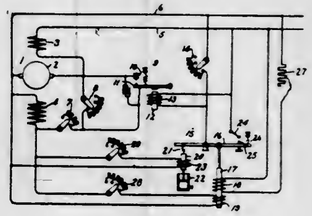
head longitudinally in said passage between said buttresses, or adjustably at an angle to said head along inclined faces of the buttresses.

1,373,927. MOTOR-STAND. ROSS D. WILSON, Kokomo, Ind. Filed Jan. 16, 1920. Serial No. 351,824. 4 Claims. (Cl. 29—89.)



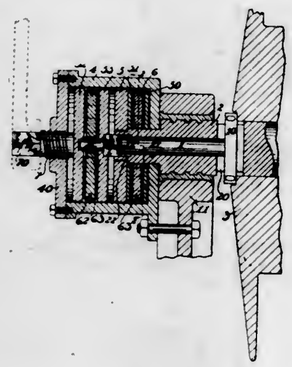
1. A motor stand including a rotatably mounted shaft, said shaft being bent at its ends to form arms, integral extensions on said arms, means on said extensions for engaging parts of a motor, said shaft having a laterally extending portion for engagement with other parts of said motor, means for holding said shaft in different adjusted positions and a spring for counterbalancing the weight of said motor when suspended in certain positions.

1,373,928. REGULATOR FOR ELECTRIC GENERATORS. FRED H. WINTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 11, 1918. Serial No. 253,604. 6 Claims. (Cl. 171—229.)



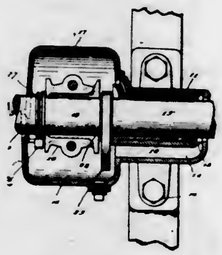
1. The combination with a dynamo-electric machine having a power circuit and an exciting circuit, of a regulator therefor comprising a winding responsive to an electrical condition of said power circuit, anti-hunting means, a vibratory contact actuated by said winding and said anti-hunting means, and means responsive to an electrical condition of said exciting circuit for modifying the action of said contact to compensate the under-compounding tendency of said anti-hunting means.

1,373,929. ROLLER THRUST-BEARING FOR FRICTION-DRUMS. JAMES N. WISDOM, Elma, Wash. Filed Sept. 9, 1920. Serial No. 409,232. 3 Claims. (Cl. 64—50.)



1. A friction set comprising an axially bored drum shaft, a thrust plate fixed to the end of the drum shaft, a casing fixed relative to the shaft bearings, a roller bearing between said thrust plate and the said casing, a thrust pin reciprocable in the bore of the shaft and held to rotate therein, a thrust plate fixed to the outer end of the thrust pin to turn therewith, a setting-up screw carried by the casing and engaging the last named thrust plate, and a roller bearing interposed between said last named thrust plate and the thrust plate which is carried by the thrust pin.

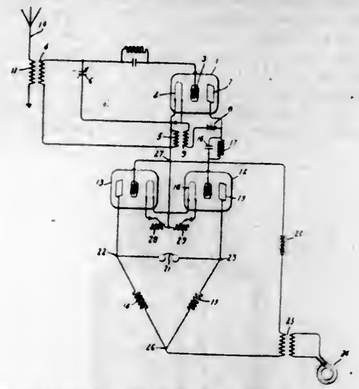
1,373,930. ECCENTRIC-SHAFT MOUNTING. LESLIE I. ZIEGLER, Indianapolis, Ind., assignor to Nordyke & Marmon Company, Indianapolis, Ind., a Corporation of Indiana. Filed June 21, 1920. Serial No. 390,367. 3 Claims. (Cl. 64—31.)



1. The combination with a journal bearing and oil reservoir arranged at one end thereof, of an eccentric shaft journaled in said bearing and carrying an eccentric closely adjacent the bearing, an eccentric strap mounted on the eccentric, and an oiling ring mounted on the shaft between the bearing and eccentric so as to deliver oil to both journal and eccentric, said oiling ring depending into the oil reservoir.

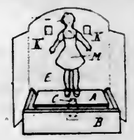
1,373,931. RADIO-RECEIVING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 5, 1919. Serial No. 302,003. 6 Claims. (Cl. 250—8.)

6. The method of receiving and detecting continuous wave radio telegraphic signals which consists in utilizing received signals to produce a current which carries at a frequency below audibility and utilizing the current thus



produced to cause a local source of audio frequency current to produce an audible indication.

1,373,932. TOY DANCING FIGURE. ALONZO HORACE ALLEN, Leicester, England. Filed Apr. 13, 1920. Serial No. 373,554. 1 Claim. (Cl. 46—40.)

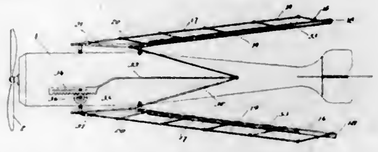


The combination with a dancing figure, of a stage consisting of a box open at top and rear, a loose platform, a supporting spring fast to the front of the box and to the platform, a projecting tongue at the rear of the platform, a back screen adjusted on the box at the rear of the platform, and a suspension hook on said screen for holding the figure above the platform.

1,373,933. CITRUS-JUICE POWDER. SHIRLEY L. AMES, New York, N. Y. Filed May 3, 1919. Serial No. 294,553. 3 Claims. (Cl. 99—5.)

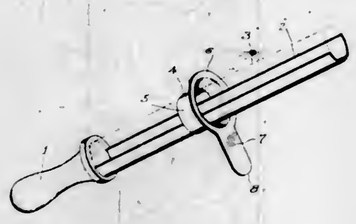
1. A new article of manufacture consisting of a self-preserving powder of dry solids comprising substantially in nature's proportions and chemical conditions all the solids of the natural juice of a citrus fruit as they exist immediately after extraction from the fruit.

1,373,934. AEROPLANE. DOMENICO AMICI, Woodland, Calif. Filed Jan. 8, 1920. Serial No. 350,069. 4 Claims. (Cl. 244—12.)



2. In an aeroplane, the combination with the fuselage, of a pair of wings hingedly connected therewith, angle arms associated with the inner ends of the wings, a shaft, connections between the arms and shaft, a motor for operating the shaft, and means carried respectively by the shaft and fuselage for locking the shaft against rotation in opposite directions.

1,373,935. VESSEL-FILLING APPARATUS. THEODORUS S. BAILEY, Berkeley, Calif. Filed Feb. 14, 1920. Serial No. 358,675. 6 Claims. (Cl. 226—101.)



1. In combination with an elongated troughed body open at one end for receiving a body of plastic material, a shaping member provided with an edge formed to cooperate with the troughed body and capable of movement longitudinally thereof for shaping the plastic material received therein to substantially complete the symmetrical contour of the troughed body, and a member extended from said shaping member and adapted for disposing transversely of the troughed body with its free end seated within the troughed body to displace the contents of the trough on the longitudinal movement of the trough or member relatively to each other.

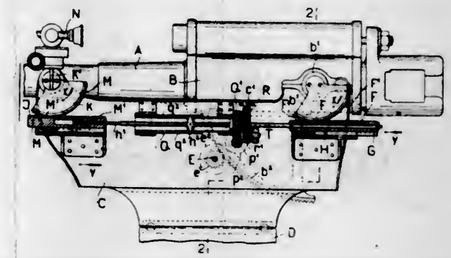
1,373,936. SIGNAL. JOHN E. BALL, Council Bluffs, Iowa. Filed July 3, 1920. Serial No. 393,821. 1 Claim. (Cl. 116—50.)



A direction indicating apparatus for vehicles, including an elongated housing elliptical in cross section having a round head at the end thereof providing two spaced members, and flanges connecting the upper and lower edges thereof to the housing and the lower flange being of a greater length than the upper flange, a signal including a disk that is normally received in the housing and rests on the lower flange thereof, an elongated arm elliptical in cross section extending from the disk into the housing, anti-frictional bands on the arms, said housing having elongated slots and passages communicating therewith adjacent the ends thereof, a lug passing through the arm and entering the slot, spring means on the lug contacting with the inner ends of the arm for moving the lug inward of the housing, a handle member on the outer end of the lug and received thereby into contacting engagement with the outer face of the housing, and said handle designed to cause the lug to be passed through the slot to enter either of the passages thereof when the same is manually operated to bring the disk to signaling or non-signaling position.

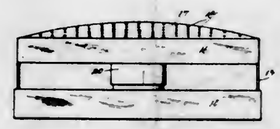
1,373,937. SIGHTING DEVICE FOR ORDNANCE. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,393. 7 Claims. (Cl. 33—48.)

1. A sighting device for ordnance having a gun barrel and carriage therefor which comprises a sighting telescope, a carrier therefor, means for adjusting said sighting telescope and a second sighting telescope adjusting



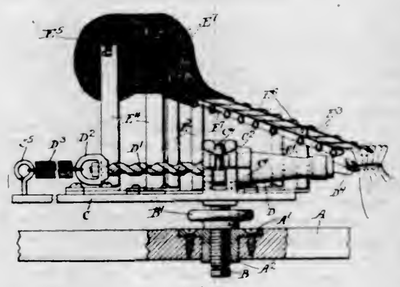
means connected to and operatable by the gun trunnion independently of the first mentioned means.

1,373,938. STEAMER DEVICE FOR MILLINERY-WORK. MAY BASSETT, Des Moines, Iowa. Filed Feb. 28, 1920. Serial No. 361,981. 1 Claim. (Cl. 223—27.)



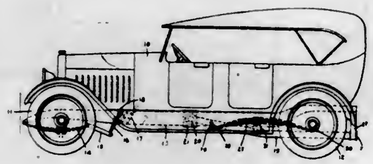
A steamer device comprising a shallow container having a filler opening near one end and having a central opening in its top, a cylindrical member extending upwardly from said opening, said container having near its ends upwardly extending flanges, a steamer head having a bottom provided with a central opening and having a cylindrical member extending downwardly from said opening that receives said first cylindrical member, said steamer members having a curved perforated top, and being provided at its ends with downwardly extending supporting members adapted to rest on said receptacle adjacent to the upwardly extending flanges thereon.

1,373,939. BAG-TYING TOOL. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed June 14, 1919. Serial No. 304,265. 12 Claims. (Cl. 140—93.)



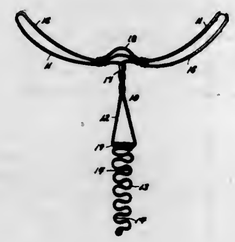
2. The combination on an adjustable base of a bag tying tool and means for feeding bag ties to said tool.

1,373,940. VEHICLE SPRING SUSPENSION. RAYMOND W. BECKMAN, Indianapolis, Ind. Filed Apr. 16, 1920. Serial No. 374,425. 13 Claims. (Cl. 267—19.)



1. A spring suspension for vehicles having a frame and an axle, including a spring connected with one of said members and extending at an acute angle to a vertical line, and a bar pivoted at one end to the other one of said vehicle members and at the other end to the end of said spring.

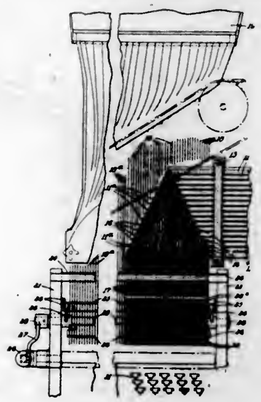
1,373,941. NECKTIE-HOLDER. SOLOMON BERLIN, Philadelphia, Pa. Filed June 27, 1919. Serial No. 307,053. 1 Claim. (Cl. 2—84.)



A tie holder for a collar and the button thereof comprising a frame including wings and a shank, a hump on the frame at the central portion thereof, said hump lying in the vertical plane of the shank and at the inner extremities of said wings, and an adjusting element mounted to swing upon the lower end of the shank to be moved into position behind the shank and in the vertical plane thereof, said element having a series of superposed open loop portions for the reception of the collar button, providing a multiplicity of vertical adjustments of the holder relative to said collar and the button thereof.

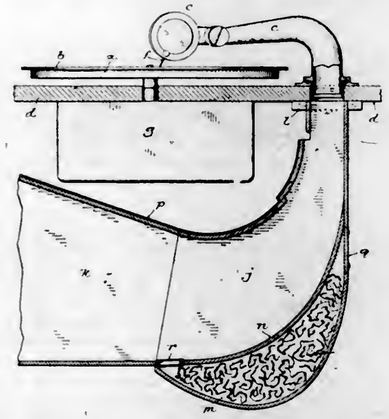
1,373,942. TYPOGRAPHICAL COMPOSING-MACHINE. JOHN ERNEST BILLINGTON, Broadheath, England, assignor to Linotype and Machinery Limited, London, England. Filed Dec. 23, 1919. Serial No. 346,939. 10 Claims. (Cl. 199—19.)

4. In a typographical composing machine the combination with an ordinary magazine, an auxiliary magazine arranged in tandem thereto, a set of escapements for each magazine, a bank of escapement reeds each for actuating the respective escapement of the ordinary magazine but without effect on the escapements of the auxiliary magazines, and a keyboard normally controlling the actuation of the escapements of the ordinary magazine, of a series of auxiliary escapement rods one for each of the escapements of the auxiliary magazine, a motion-transmission device in permanent operative connection with each of the auxiliary escapement rods and adapted to be actuated independently of the first-mentioned escapement reeds, and switch mechanism controlled by the operator for diverting control exercised by the keyboard from escapement reeds



of the ordinary magazine to the motion-transmission devices connected with the auxiliary escapements, and vice versa.

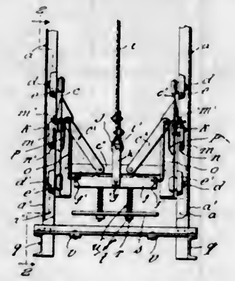
1,373,943. TONE-CHAMBER. FREDERICK F. BLANDIN, Racine, Wis., assignor to Racine Phonograph Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 16, 1918. Serial No. 262,887. 4 Claims. (Cl. 181—27.)



1. A tone chamber for sound reproducing machines, having an auxiliary chamber separated from a main chamber by a sound board and provided with loose sound-modifying material.

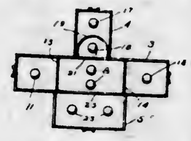
1,373,944. ELEVATOR SAFETY APPARATUS. WILLIAM EDWARD BOEHCK, Jersey City, N. J., assignor to Revolvator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 1, 1919. Serial No. 314,644. 4 Claims. (Cl. 187—87.)

1. Elevator safety apparatus for tiering machines, including a hoisting mechanism; a pair of fixed standards; a load-carrying platform mounted to travel therebetween; platform-guiding rollers arranged to travel along said standards; a lifting-beam below said platform and supported by said hoisting mechanism, said lifting-beam being free to move downwardly relatively to said platform in case said hoisting mechanism ceases to support said lifting-beam; cams mounted free to turn independently of each other and arranged to travel in close proximity to said standards; and cam-actuating devices connecting said cams and lifting-beam and arranged to throw said cams



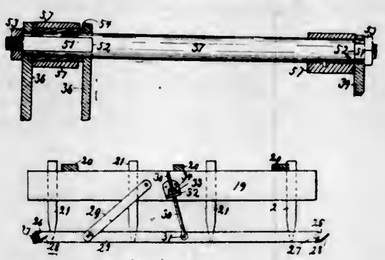
into frictional engagement with said standards when said lifting-beam falls relatively to said platform, whereby said platform-guiding rollers are forced into frictional engagement with said standards and the platform is held from dropping.

1,373,945. CASING FOR AUTOMOBILE SIGNAL-LIGHTS. WILEY E. BOLES, Indianapolis, Ind. Filed Oct. 2, 1919. Serial No. 328,043. 3 Claims. (Cl. 40—132.)



1. A signal casing including an elongated hollow body having a central compartment and separate compartments at the ends thereof of the same height and of less length than the central compartment, hollow sections extending upwardly and downwardly from the body portion, a partition having a horizontal portion for separating the lower section from the central compartment and integral vertical sections for separating the central compartment from the two end compartments, an additional partition for separating the upwardly extending section from the central compartment, lamps in the individual compartments formed by said partitions, and a single door covering one face of all of said compartments and removably secured in position, said door having signal indicating openings therethrough.

1,373,946. HARROW WITH CLEANING ATTACHMENT. GILBERT BORSTAD, Starbuck, Minn. Filed May 8, 1920. Serial No. 379,820. 4 Claims. (Cl. 55—34.)



1. In a harrow, a series of teeth and a tooth cleaning attachment movable up and down on the teeth, means for moving the attachment, and means for regulating and limiting the downward movement of the attachment.

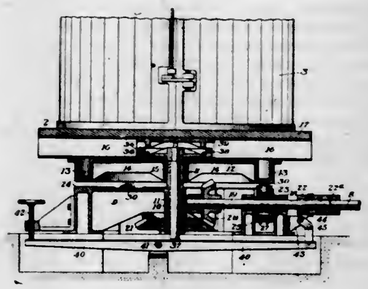
2. In a harrow cleaning attachment, a rock shaft having an end portion flattened at two sides, producing two shoulders, a rocker arm with an oblong hole fitting the flattened end and a nut threaded upon the end of the shaft and holding the rocker arm against said shoulders.

1,373,947. METALLIC RAILWAY-TIE. AUGUSTUS F. BROWN, Havre de Grace, Md. Filed May 26, 1920. Serial No. 384,394. 9 Claims. (Cl. 238—31.)



2. A sectional metallic tie having similar end portions and a divided intermediate portion the under surface of which is arched to elevate the same above the corresponding under surfaces of the ends and for a substantial distance above the road-bed.

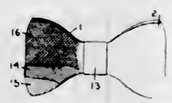
1,373,948. JARRING-MACHINE. CHARLES F. BUENTE, Avalon, Pa. Filed Sept. 10, 1919. Serial No. 322,798. 15 Claims. (Cl. 25—41.)



4. A jarring machine, comprising a rotary mold support, means for intermittently engaging the support to simultaneously raise and rotate the support, and means for engaging said support to permit dropping thereof without rotation, substantially as described.

13. A jarring machine, comprising a base, a hollow shaft rotatably mounted in the base, a support connected to said shaft and arranged to be rotated thereby, a plurality of radially disposed shafts rotatably mounted in bearings on the base, gearing connecting the vertical shaft to the radial shafts, support raising and rotating means on the radial shafts, means for actuating said shafts, a support raising device within the hollow shaft, and means for actuating said support raising device to move the support above the support raising and rotating device, substantially as described.

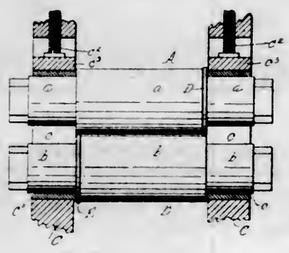
1,373,949. TIE. ALBERT B. CHAUNCEY, Revere, Mass. Filed Sept. 17, 1920. Serial No. 410,843. 3 Claims. (Cl. 2—82.)



1. A bow tie having wings comprising an outer facing of foraminous material having a lining of material differing in color from that of said facing and a knot portion intermediate of said wings formed of material correspond-

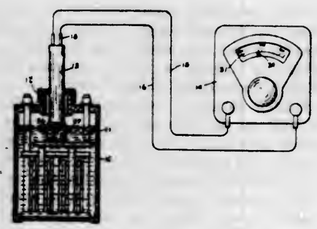
ing to the facing whereby said knot will present a solid color while the wings will present a changeable color effect.

1,373,950. ROLLS FOR HOT-ROLLING SHEET METAL. THOMAS R. COLLEY, Blasdell, N. Y. Filed Apr. 26, 1920. Serial No. 376,510. 5 Claims. (Cl. 80—58.)



5. A pair of rolls for use in hot rolling metal sheets and having substantially cylindrical surfaces adapted to engage the metal to be rolled, said rolls being mounted in housings and being movable toward and from each other, and an enlarged portion formed on one end of each roll, the two enlarged portions being arranged at opposite ends of the rolls, whereby the cylindrical surfaces of the rolls are out of contact when the rolls are in operative positions, and whereby said cylindrical surfaces may be brought into contact by moving one of said rolls endwise with regard to the other roll when said rolls are removed from their housings.

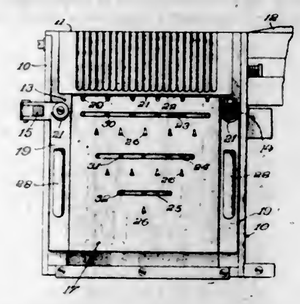
1,373,951. STORAGE-BATTERY INDICATING DEVICE. CLARE C. COX and GEORGE W. LENTZ, Indianapolis, Ind.: said Cox assignor of one-tenth of the whole right to said Lentz. Filed Mar. 11, 1918. Serial No. 221,741. 6 Claims. (Cl. 177—351.)



1. In means for measuring the specific gravity of the electrolyte in storage batteries, a current generating device adapted to be inserted in the electrolyte, including a body portion, oppositely located terminal plates secured to the lower end thereof and made of dissimilar metal, and protected conductor means leading from said plates.

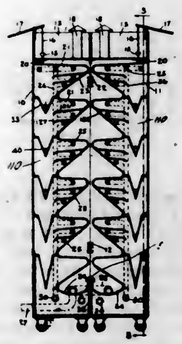
1,373,952. INDIVIDUAL WORK-HOLDER ATTACHMENT FOR SLICING-MACHINES. ALFRED M. DEMUTH, Chicago, Ill., assignor to John A. Kelly, Chicago, Ill. Filed Jan. 30, 1919. Serial No. 274,013. Renewed July 31, 1920. Serial No. 400,567. 23 Claims. (Cl. 17—14.)

1. A device of the character described, embodying a main support, an upright connected therewith, a supplemental support, and a clamping element movable upon the upright and adapted to coöperate with the supplemental



support, said supplemental suport being attachable and removable at will and while the said clamping member is connected with the upright.

1,373,953. APPARATUS FOR HEATING AND COOLING LIQUIDS. CHARLES W. DESOBRY, Indianapolis, Ind. Filed Mar. 17, 1919. Serial No. 283,098. 15 Claims. (Cl. 257—180.)



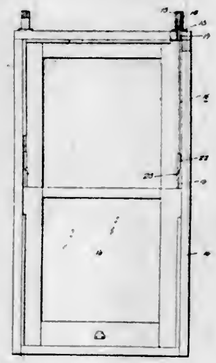
7. Apparatus for heating or cooling liquid, including two sections formed substantially alike and hinged together at one side whereby they can be opened and closed against each other, a chamber in each section with the inner walls of the chambers similarly formed so as to furnish two substantially vertically disposed surfaces and over each of which liquid is adapted to flow down and adhere thereto, whereby the portion of the device containing the liquid being treated will be inclosed when said sections are in closed position, and means for circulating a heating or cooling media in said chambers.

1,373,954. AUTOMOBILE-BUMPER. THOMAS I. DUFFY, Oak Park, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 17, 1917. Serial No. 197,055. 10 Claims. (Cl. 293—55.)



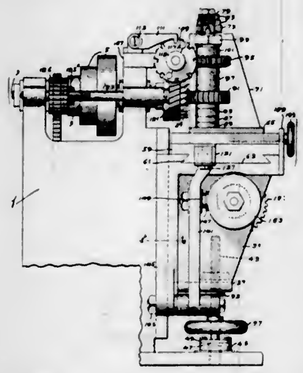
1. A bumper attaching bracket provided with a rearwardly-facing bearing portion, and at the bottom of said bearing portion a rearwardly-projected and upwardly-open hook; an arm extending rearwardly from said bearing portion in a vertical fore-and-aft plane situated outwardly from said hook, and an inwardly directed hook adapted for engagement upwardly at the rear end of said arm.

1,373,955. WINDOW-COUNTERBALANCE. ERIK GEORG ERICKSON, Baker, Oreg. Filed Aug. 11, 1919. Serial No. 316,701. 1 Claim. (Cl. 16—148.)



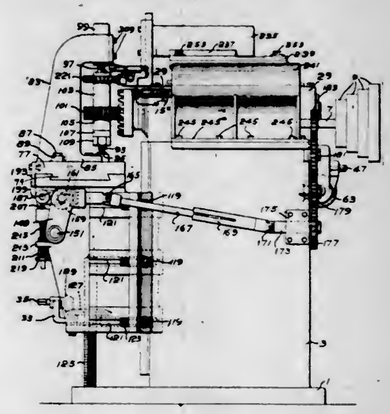
The combination with a window including a casing and upper and lower sashes slidably mounted therein, a sheave mounted upon the top of the frame near each side thereof, and a cable passing over each of said sheaves, and having one end permanently secured to the upper sash, perforated plates secured to and extending above the upper end of the lower sash, a sleeve secured to the opposite end of said cable, with a reduced extension projecting beyond the lower end of the sleeve, and terminating to provide a hook to be interchangeably received by said perforations.

1,373,956. GEAR-CUTTING MACHINE. WILLIAM C. FARNUM, Winchendon, Mass. Filed July 22, 1918. Serial No. 245,983. 25 Claims. (Cl. 90—4.)



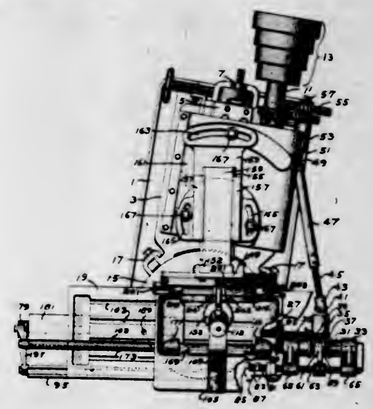
1. A machine for cutting teeth of gears, comprising, in combination, a toothed cutter for cutting teeth on a gear blank, means to rotate said cutter, a mandrel supporting said gear blank, a master gear on said mandrel, a worm meshing with said master gear adapted to serve as a rack to roll the gear blank across the teeth of the cutter, and means for rolling the master gear and gear blank out of engagement with the worm and cutter respectively to allow indexing of the gear blank.

1,373,957. GEAR-CUTTING MACHINE. WILLIAM C. FARNUM, Winchendon, Mass. Filed Aug. 5, 1918. Serial No. 248,806. 30 Claims. (Cl. 90—4.)



1. A machine of the character described, comprising, in combination, a gear tooth cutter, means to support a gear blank in position to be acted upon by said cutter; and means to index said gear blank including a pair of racks, a master gear adapted to mesh with said racks, and means relatively to adjust said racks to turn said master gear a step after the latter has rolled from one rack to the other.

1,373,958. ATTACHMENT FOR CUTTING TEETH OF BEVEL-GEARS. WILLIAM C. FARNUM, Winchendon, Mass. Filed Dec. 23, 1918. Serial No. 267,887. 27 Claims. (Cl. 90—5.)

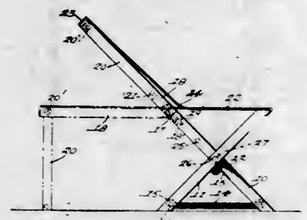


1. In a machine of the character described, the combination of a rotary cutter, a curved rack, a curved indexing rack, an arbor to receive a gear blank, a master gear on said arbor, means to oscillate said arbor to roll said master gear to and from said rack, and means to shift said indexing rack to index the gear blank.

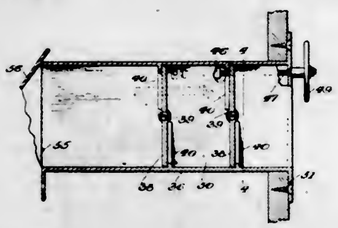
1,373,959. COLLAPSIBLE CHAIR. GABRIEL FLORESKUL, Toronto, Ontario, Canada. Filed Aug. 13, 1920. Serial No. 403,372. 1 Claim. (Cl. 155—45.)

A collapsible chair comprising pairs of legs hinged together intermediate their length at their point of intersection, braces pivotally secured near the lower ends of one

pair of said legs, hooked ends at the opposite ends of said braces adapted to normally engage pins at the inner faces of the other pair of said legs, means for holding said braces parallel to one pair of said legs when the chair is to be folded, extensions hingedly secured to the upper ends of one pair of said legs, latches and keepers for normally holding said extensions in alinement with the last named pair of legs, couch legs pivotally secured to the upper ends of said extensions, means for normally holding said couch legs against the sides of said extensions parallel to the same, said means allowing a swinging of said couch legs around their pivots when the chair is to be used as a bed, and a canvas seat secured to the front end of one pair of legs and to the upper ends of said extensions, said canvas normally forming a fold for allowing a stretching of the same when the chair is to be converted into a cot or couch.

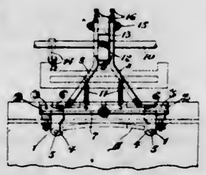


1,373,960. VENTILATOR. WILLIAM G. FORCIER, Wollaston, Mass. Original application filed July 31, 1919, Serial No. 314,405. Divided and this application filed Jan. 20, 1920. Serial No. 352,868. 3 Claims. (Cl. 126—285.)



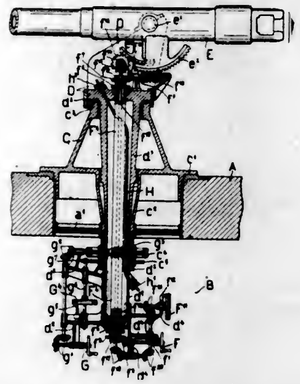
1. A ventilator for buildings comprising an open-ended casing, a plate mounted within the casing for rocking movement in a vertical plane, a radial arm at one end of the plate, a worm disposed above said arm and held against longitudinal movement, a sleeve mounted upon said worm and having a depending tongue provided with a vertical slot, and a pin inserted through said radial arm and playing in the slot in said tongue.

1,373,961. NAILING-MACHINE. JOHN R. GILDA, St. Louis, Mo. Filed Jan. 16, 1919. Serial No. 271,425. 8 Claims. (Cl. 1—15.)



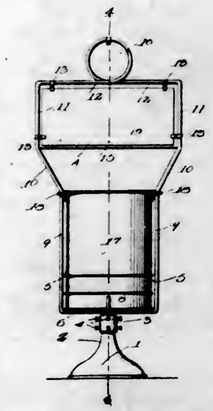
8. A nailing machine including, in combination, a support for a board, a pair of spaced levers for drawing a warped board against the support for straightening the board, means for actuating the levers, and pins carried by the levers for alining a second board with the warped board when straightened.

1,373,962. PIVOT-GUN. KURTH HALLER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,404. 6 Claims. (Cl. 89—37.)



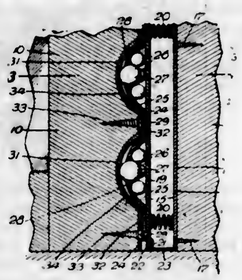
1. An arrangement of the class described comprising a pivot gun, a carriage therefor, a closed chamber, said chamber being provided with an opening, a pedestal projecting from said opening, a hollow pivot pin forming the axis for said gun carriage, said pivot pin being supported by said pedestal, an extension on said pedestal projecting into the chamber and surrounding said pivot pin, means for packing the pivot pin in the extension, means operatable from within the chamber and extending through said pivot pin for elevating the gun and means operatable from within the chamber for rotating the pivot pin for traversing the gun.

1,373,963. RECEPTACLE-SUPPORT AND ADVERTISING-EXHIBITOR. JAMES H. HARTZELL and HARRY F. HARTZELL, Lakeland, Fla. Filed Sept. 4, 1920. Serial No. 408,125. 3 Claims. (Cl. 248—41.)



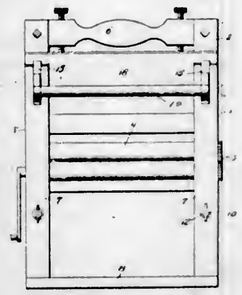
1. In a support of the class described, a pedestal, a frame detachably mounted on said pedestal including radiating arms, some of which have upstanding fingers at their outer ends, and others having upstanding side members arranged parallel with each other, and a rectangular frame connecting the upper ends of said side members.

1,373,964. SASH-HOLDING DEVICE. JOHN W. JONES, Haddonfield, N. J. Filed Sept. 19, 1919. Serial No. 324,911. 1 Claim. (Cl. 292—75.)



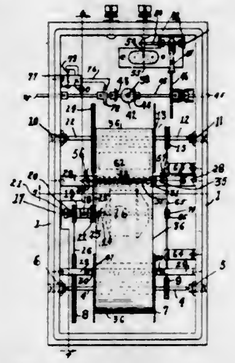
The combination with a window frame having a slidingly mounted sash, of a sash holding device comprising a laterally movable hollow member located between the side rail of the sash and the adjacent side of the frame, a downwardly projecting wall included in the hollow member for engagement in spaced sockets provided in the adjacent edge of the sash to hold the latter in adjusted position, an antifriction ball projecting through an opening in the hollow member for engagement with the socketed edge of the sash to facilitate adjustment and antifriction balls located within the hollow member and providing a bearing for the first mentioned ball.

1,373,965. WRINGER AND CLAMP THEREFOR. LLEWELLYN R. JONES, Belleville, Ontario, Canada, assignor of one-fourth to Charles A. Badgley, Belleville, Ontario, Canada. Filed Apr. 5, 1920. Serial No. 371,526. 1 Claim. (Cl. 68—32.)



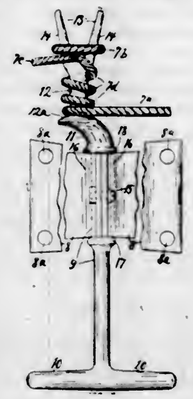
In combination with a wringer including side bars formed in their rear edges at their lower ends with support receiving recesses, the side bars being also provided on their rear edges adjacent the upper ends of said recesses with inclined bearing faces, bolts extending through the side bars centrally to said inclined bearing faces, a clamping frame rockably associated with said side bars and having legs through which said bolts extend, wing nuts threaded on said bolts to bind the clamping frame against said bearing surfaces, a clamping bar connecting the lower ends of the clamping legs and projecting therebeyond toward the vertical walls of said support receiving recesses, a transverse bar connecting said side bars near the upper ends thereof, cam levers pivoted upon the upper ends of the legs of the clamping frame and engageable with said last named bar, whereby to tilt the clamping frame upon said bolts, and a rod connecting said levers and serving as a handle.

1,373,966. MECHANICAL DIRECTORY. GEORGE HENRY KEYSER, Akron, Ohio. Filed Jan. 2, 1920. Serial No. 348,745. 7 Claims. (Cl. 40—31.)



1. In a device of the class described, a casing, a strip of flexible material positioned in said casing, a window in said casing, means to move said flexible material longitudinally beneath said window, characters registered on said flexible material in class order, a dial on said casing, index characters corresponding to the class of the characters on the flexible material, registered on said dial, an indicating hand on said dial and means connected with the movement of said flexible material to automatically move said hand to points on said dial which indicate the class of characters on said strip as the same is positioned beneath the window on said casing.

1,373,967. CLOTHESLINE HOLDER AND TIGHTENER. JOHN V. LOFQUIST, St. Paul, Minn. Filed Aug. 2, 1920. Serial No. 400,618. 7 Claims. (Cl. 254—149.)



1. In a clothes line holder and stretcher, a frame or bracket adapted to be secured to a stationary object, a shaft journaled in the bracket and having at one end a handle by which to rotate it, the other end being offset to form a crank and terminating in a means adapted to have the clothes line attached to it; said crank serving as a winding drum for a portion of the attached line and as a means for preventing accidental unwinding of the line.

1,373,968. HAIR-CURLER. ORA D. MCCLINTOCK, Portland, Oreg. Filed Oct. 30, 1919. Serial No. 334,534. 3 Claims. (Cl. 132—40.)

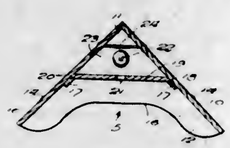
1. A hair curler comprising a bendable element having terminal loops and bent intermediate the ends to form

side portions in parallel relation with a loop at the bend, and a casing of flexible material having a smooth outer



face and inclosing the parallel side portions, said terminal loops adapted to receive a binding tape.

1,373,969. DAYLIGHT EGG-CANDLER. FRANK E. MUSSEHL, Lincoln, Nebr. Filed Sept. 17, 1918. Serial No. 254,387. 1 Claim. (Cl. 99—6.)



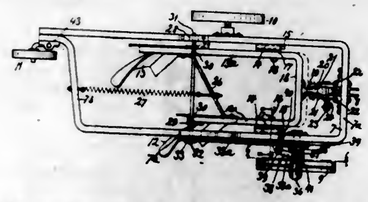
A daylight egg candler comprising a casing substantially triangular in form and open at one side, a partition extending transversely of the casing in parallel relation to the open end thereof and forming in the apex of the same a darkened chamber, a reflector spaced in rear of said partition, and parallel thereto, and a lamp within said darkened chamber between said partition and said reflector, said partition having a focal aperture in alinement with said lamp and the apex point of said casing, the top wall of said casing having a semi-circular sight opening arranged immediately above said focal aperture so as to bring the egg to be candled directly in focus with the line of sight of the operator, the inner surfaces of the walls of said casing and the outer wall of said partition being rendered black to contrast with the light aperture and the natural light of the day.

1,373,970. ROUGHENING OR HAND ABRADING TOOL. ERWIN PEASLEY, Amherst, Ohio. Filed Mar. 16, 1920. Serial No. 366,303. 1 Claim. (Cl. 29—78.)



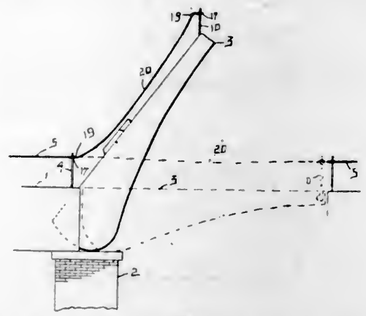
In a roughening and hand abrading tool, a cup-shaped cap having a convexed center formed with teeth cut and stamped outwardly therefrom, and a handle having an end anchored in the cap removed from the convexed center thereof.

1,373,971. PLOW-RreleasING DEVICE. BENJAMIN C. F. PRITZEL, Stillwater, Minn. Filed Dec. 4, 1920. Serial No. 428,355. 6 Claims. (Cl. 97—36.)



1. The combination with a skeleton frame having supporting wheels on which it is to be drawn forward, of a plowing device within the frame and having its front end coupled to the front end of the frame by a spring-pressed device adapted to yield and uncouple the plowing device when the latter gets obstructed, a chank-shaft journaled across the frame and having its crank engaged with the plowing device, said plowing device having its front portion provided with trunnions journaled in longitudinally slidable plates guided to slide one upon each side bar of the wheeled frame, a short shaft journaled in one side of the frame and forming the axle of one of the ground wheels fixed on it, a clutch member rotatable on the short shaft and having attached to it a sprocket, another sprocket fixed on the crank-shaft and a link belt connecting the two sprockets, a second clutch member slidably keyed on the short shaft and a spring tending at all times to engage said second clutch member with the first mentioned clutch member, a pivotally mounted shifter engaging the second clutch member and having an arm supported by one of the sliding plates holding the trunnions, as long as said plate is in its normal forward position.

1,373,972. TROLLEY-LINE SUPPORT. WILLIAM E. RICHARDS, Toledo, Ohio. Filed Feb. 7, 1920. Serial No. 357,061. 9 Claims. (Cl. 191—9.)

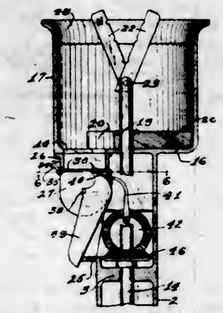


5. A lift bridge trolley support including a counterweighted tiltable pole.

1,373,973. DISPENSER. GEORGE L. RICHARDSON and WALTER E. RICHARDSON, Chicago, Ill. Filed May 2, 1918. Serial No. 232,004. 17 Claims. (Cl. 221—95.)

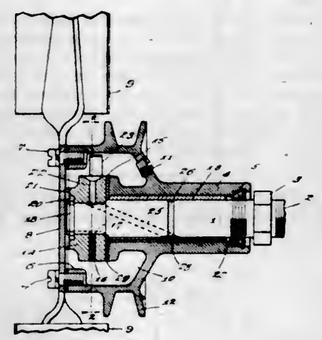
1. A material dispenser embracing a container having a discharge opening therein, doors for closing said opening, a tray pivotally mounted on said container below said doors for normally engaging and holding the doors in closed position, means for moving the tray to open said doors including a link pivoted to the upper end of the tray, said link being eccentrically mounted on the tray operating means, so that in one position it moves the tray to allow the doors to open and in its other position it moves the tray to close the doors.

2. A material dispenser comprising a container having a discharge opening therein, doors for closing said opening, a tray pivotally mounted on said container for normally engaging and holding the doors in closed position, a gear operated eccentric mechanism connected with said tray for actuating the tray to move the same out of engagement with said doors, and spring controlling means connected with said doors for automatically opening the same when said tray is moved into receiving position to permit a predetermined quantity of the material to be dispensed.



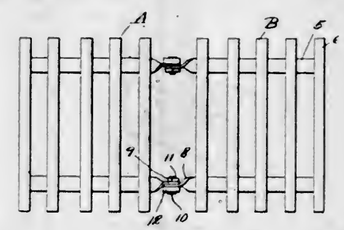
3. A material dispenser comprising a container having a discharge opening therein, doors for closing the same, a mechanism connected with said doors adapted to move the same into open position, a gravity acting material receiving tray pivotally mounted on the container and normally positioned to engage and hold said doors in closed position, a link pivotally connected to said tray, and a gear mechanism to which said link is eccentrically connected, said gear mechanism and link adapted to be operated to move said tray into a receiving position to release said doors to permit the same to be opened by said door controlling mechanism whereby a predetermined quantity of the material is deposited in said tray.

1,373,974. BEARING. CHESTER S. RICKER, Indianapolis, Ind., assignor to The Oakes Co., Indianapolis, Ind., a Corporation of Indiana. Filed Sept. 25, 1919. Serial No. 326,128. 9 Claims. (Cl. 64—26.)



1. In combination, a stationary supporting member, a rotatable member rotatably supported by said supporting member and provided with an internal annular lubricant-holding chamber, said supporting member being provided with a passageway communicating with the bearing surfaces between said two members and with said lubricant-holding chamber, said passageway being provided with a substantially radial funnel-shaped entrance where it communicates with said lubricant-holding chamber, and a baffle plate carried by said stationary member and projecting outward substantially parallel to the radius of such entrance but circumferentially displaced from such entrance so that when the rotatable member rotates said baffle plate directs into said passageway lubricant which is carried in said chamber but permits excess of lubricant to overflow the sides of the baffle plate.

1,373,975. FOLDABLE SINK-RACK. ARTHUR J. RIDDLE, Erie, Pa. Filed July 17, 1919. Serial No. 311,481. 1 Claim. (Cl. 141—11.)



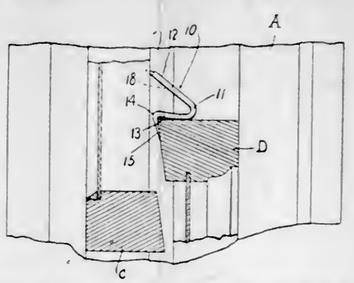
A foldable rack of the class described composed of a plurality of hingedly connected sections, each comprising a pair of parallel laterally spaced flat metal bars with one end of each twisted to position the terminal thereof at right angles to its flat face, said terminals being apertured, pintles in the apertures, spaced slats connecting the bars of each section, the free ends of the sections having feet with rounded soles or support engaging portions, and rollers carried by said pintles with the peripheries thereof extending beyond the edges of said terminals to coöperate with said feet to support the rack spaced from its support and to facilitate its movement over said support.

1,373,976. BUTTON. FRANK A. ROBERTS, Chicago, Ill. Filed July 3, 1920. Serial No. 393,877. 1 Claim. (Cl. 24—103.)



In combination, a button having a central opening adapted to receive a fold of a piece of fabric, and also having an annular groove surrounding said opening, a pin adapted to be passed through the fold in the fabric and having its terminals snapped into said groove, one wall of the groove being tapered inwardly to prevent casual separation of the pin from the button, and said pin being wholly disposed within the area of the button between the opposed faces thereof.

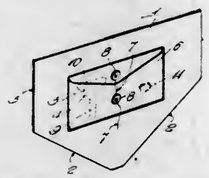
1,373,977. WINDOW-LOCK. JOHN A. ROUCH and THOMAS H. HASTIE, Tulsa, Okla. Filed Oct. 12, 1920. Serial No. 416,417. 1 Claim. (Cl. 292—288.)



A device of the character described comprising an elongated sheet of metal bent into acute angular form to de-

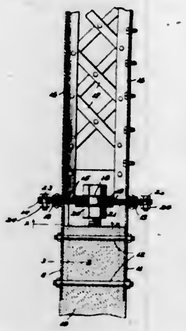
fine diverging arms, one arm being engageable upon the top rail of the lower sash of a window and terminating in a tapered extension engaging against the side of the rail toward the upper sash, the other arm terminating in a penetrating point engageable with the side rail of the upper sash, and a lateral extension formed on one side of said sheet and having its upper corner formed as a penetrating time engageable with the parting strip of the window.

1,373,978. REPAIR OUTFIT FOR MUSIC-ROLLS. JOHN S. RUHLMAN, Trenton, N. J. Filed Aug. 25, 1919. Serial No. 319,662. 1 Claim. (Cl. 206—38.)



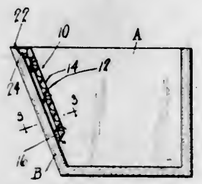
An article of manufacture comprising a pattern card conforming in shape to the end of a perforated music sheet and adapted for use in properly trimming the sheet for the application of a pull tab thereto, an envelop smaller than said card and secured flat against the same, a pull tab in said envelop for application to the trimmed music sheet, and releasable means for holding said envelop closed.

1,373,979. TELEGRAPH-POLE. DUDLEY RANDOLPH RYALS, Richmond, Va. Filed Aug. 16, 1920. Serial No. 403,797. 3 Claims. (Cl. 72—84.)



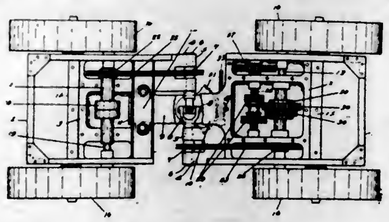
1. In a pole for supporting wires or the like, a base, a top plate fixed to the base, a body having a bottom plate resting on the top plate of the base, a bolt passing centrally through the plates and constituting a swivel connection for the base and body, and means to lock the plates immovably with relation to each other.

1,373,980. LAUNDRY-TUB. MAUDE SHULTS, St. Johnsville, N. Y. Filed Mar. 3, 1920. Serial No. 363,026. 2 Claims. (Cl. 68—31.)



2. A wash tub having an inclined side, a wash board located on said inclined side and having its lower face spaced from said side and supporting parts at the corners of the board integrally connected with both the board and the inclined side.

1,373,981. TRACTOR. GEORGE M. SMITH, Cleveland, Ohio. Filed Sept. 28, 1920. Serial No. 413,318. 1 Claim. (Cl. 180—50.)



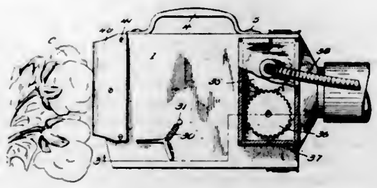
A tractor of the class described comprising a frame formed of two parts, means for pivotally connecting the two parts together so that they can move about a vertical axis, an axle supporting each part, wheels carried by each of said axles, a drive shaft on each part, gears connecting the same with the wheels, each shaft being formed of two parts and a differential connecting these two parts together, a sprocket connected with a part of the differential housing, an extension on the inner end of each frame part, a horizontally arranged shaft carried by each extension, a universal joint connecting the inner ends of the two shafts together, a sprocket on each shaft, a chain connecting the sprocket on each horizontal shaft with the sprocket on the differential, gears of different sizes on the differential housing of the drive shaft of the rear frame part, a power driven shaft and slidable gears thereon for engaging with the gears on the differential.

1,373,982. GAGE AND LEVEL. HENRY M. SMITH, Ottumwa, Iowa. Filed Feb. 28, 1920. Serial No. 362,047. 3 Claims. (Cl. 33—145.)



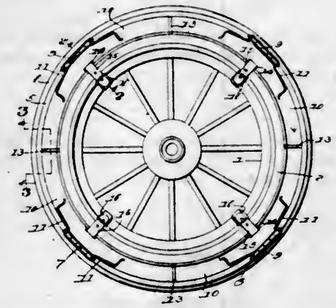
1. A device of the class described comprising a ring, a pair of tubes having their inner ends connected with the ring at diametrically opposite points, a forked member at the outer end of one tube, prongs on said forked member for engaging one rail of the track, a sliding bar carried by the other tube, a spring in said tube for forcing the bar outwardly and indicating means associated with the bar and tube for indicating the gage of the track.

1,373,983. COTTON-PICKER. TAYLOR J. SMITH, Union City, Ga. Filed Sept. 15, 1920. Serial No. 410,504. 6 Claims. (Cl. 56—39.)



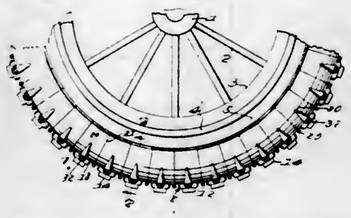
1. In a cotton picker of the class described, a casing, a pair of spaced rollers journaled in said casing, an endless belt connecting the rollers, a transverse shaft, a movable bottom hinged to said shaft and provided with a complementary pair of rollers and an endless belt and spring pressed means for separating the forward rollers and endless belts.

1,373,984. TIRE-SHIELD. GIROLAMO SOLDANI, Spencer, Mass. Filed Oct. 9, 1918. Serial No. 257,446. 1 Claim. (Cl. 152—33.)



A tire shield embodying a metallic band for attachment to a tire so as to embrace one side thereof and the tread, a plurality of members conforming in shape to the other side of the tire, the said members being hingedly attached to said band at the edge of that portion embracing the tread and having interlocking ends and springs bearing upon said members to force them in contact with the said other side of the tire, whereby the said members may be thrown back to permit the attachment of the band to a tire, the springs operating to throw the members into contact with the tire and thereby retain the whole device on the tire, as herein shown and specified.

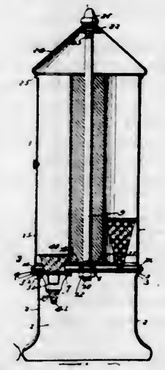
1,373,985. COMBINED TIRE-ARMOR AND ANTISKID DEVICE. GIROLAMO SOLDANI, Spencer, Mass. Filed Oct. 9, 1918. Serial No. 257,447. 2 Claims. (Cl. 152—16.)



1. A device of the character described including a plurality of sections each of which consists of a casting, a block fitted in the casting and a clamp fitted about the casting and through which the block projects, common means securing the block, casting and clamp together, and means movably connecting the clamps of each section together.

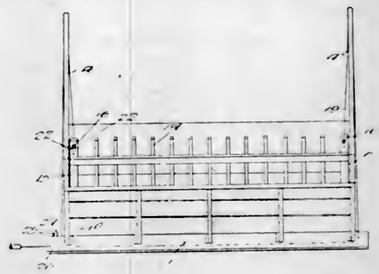
1,373,986. ICE-CREAM-CONE DISPENSER. GIROLAMO SOLDANI, Spencer, Mass. Filed Oct. 9, 1918. Serial No. 257,448. 2 Claims. (Cl. 211—8.)

1. A device of the kind described including a stand formed with opposed openings in its wall and provided with a flared upper edge, a base plate seated on the upper edge of the stand and formed with a central opening and with a relatively large opening to one side of the center, a vertically disposed rod mounted in the center opening of the base and secured to the latter by clamping nuts disposed relatively against the upper and lower faces, a casing having vertically disposed outwardly opening doors giving access to the plurality of compartments concentrically disposed with reference to said rod, spiders having their arms connected to the walls of the casing at the upper and lower end and rotatably engaging the rod, a removable cover for the casing clamped to the upper end of the rod, the compartments registering with the large opening in the base upon the rotation of the casing and



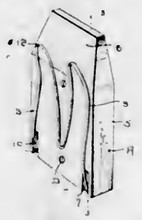
being designed each to receive a stack of nested cones, a retaining device embodying a supporting ring secured to the base in surrounding relation to the large opening therein, and opposed resiliently mounted jaws carried by the ring.

1,373,987. UNLOADING DEVICE FOR HEADER-BOXES. FRED TOEPFER, Victoria, Kans. Filed Apr. 2, 1919. Serial No. 286,891. 5 Claims. (Cl. 298—11.)



1. The combination with a header-box having sides; of standards connected with the header-box and extending above the same, a false bottom positioned in the header-box to ride upwardly upon one of the sides, pulleys connected with the standards, a draft appliance, and cables leading from the draft appliance and over the pulleys of the standards and connected with the false bottom for lifting said bottom to an elevated and tilted position.

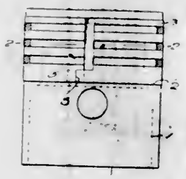
1,373,988. NEWSPAPER-HOLDER. JOHN S. WALLICK, Lancaster, Pa. Filed Feb. 7, 1920. Serial No. 356,956. 3 Claims. (Cl. 24—66.)



1. A holder of the character described comprising a base plate having spaced notches in one end thereof, a

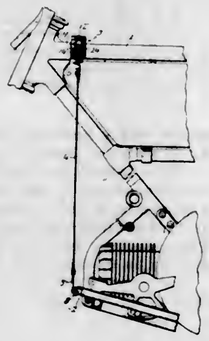
resilient clip forming a substantially M-shaped jaw and hooked extremities opposite the latter, spring coils formed in the clip between the jaw and the said hooked extremities, said coils being seated within the notches causing the said jaw and hooked extremities to exert tension on the base plate.

1,373,989. PISTON CONSTRUCTION. BERT L. WOODLAND, Muskegon, Mich. Filed Dec. 9, 1918. Serial No. 265,955. 1 Claim. (Cl. 74—108.)



In a piston construction a cylindrical body having an annular groove in its outer face, a transversely split expansible collar seated in said groove and substantially flush with the outer wall of said body, the side edges of the groove and collar adjacent to each other being parallel with one another, the ends of the collar being correspondingly beveled and freely overlapping permitting expansion and contraction of said collar, one end of the collar being recessed, an integral lug on the other end of the collar and engaging in the recess preventing the passage of oil or gas through the split, and a plurality of split rings in the collar and having pressure exerted outwardly against the same by said collar.

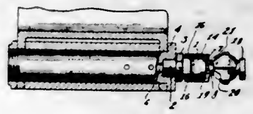
1,373,990. MUD-GUARD. ADAM ZISKA, Jr., Milwaukee, Wis., assignor to Harley-Davidson Motor Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 22, 1919. Serial No. 319,286. 18 Claims. (Cl. 208—143.)



1. A detachable mud guard for cycles comprising a plurality of hinged supporting bars adapted to be mounted on the frame, a flexible guard member for each bar, attaching means for the bottom of the guard members, and resilient means coöperating with the bars and guard members and causing the bars to grip the frame.

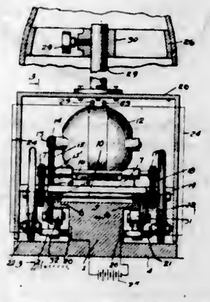
1,373,991. GREASE-CUP. THOMAS E. ADKINS, Canton, Ohio. Filed Apr. 22, 1920. Serial No. 375,741. 4 Claims. (Cl. 184—88.)

1. A grease cup having a valve seat at its rim and a supporting seat in its bottom, and an extensible capsule comprising two similar telescoping cups with valve forming ends and a compression spring within the capsule normally



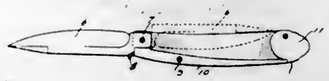
holding the ends of the capsule cups against the seats, there being longitudinal ducts for passage of grease along the wall of the grease cup.

1,373,992. DISPLAY DEVICE. SAMUEL MAX BENJAMIN, New York, N. Y. Filed Nov. 20, 1920. Serial No. 425,515. 5 Claims. (Cl. 104—139.)



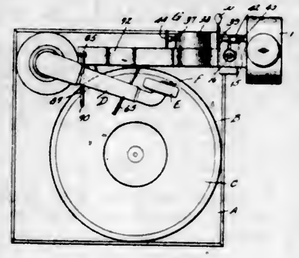
1. A display device, comprising a track having a relatively wide base, a web projecting upwardly from the center of the base, flanges projecting laterally from the upper end of the web, a car, wheels on the car mounted to run on the base of the track at both sides of the web, rollers on the car engaging the under faces of the flanges at both sides of the web, a motor on the car, electric conductors on the track, means electrically connecting the motor with said conductors, and a form supporting standard on the car.

1,373,993. KNIFE. EDD BOE, Clearbrook, Minn., assignor of one-third to Edwin A. Halseth and one-third to Carl V. Bexell, Clearbrook, Minn. Filed Feb. 26, 1920. Serial No. 361,524. 1 Claim. (Cl. 30—10.)



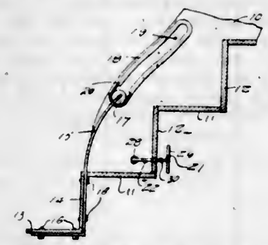
A knife comprising a handle, a blade pivoted in the handle and adapted to asume an open or closed position and be locked in said positions, a lever pivoted intermediate its ends within the handle and constituting the back thereof, one end of said lever having a flat stepped portion, the pivot end of the blade having on one side a shoulder, and a flat portion extending from said shoulder to that end of the blade and on the opposite side, the blade having a continuous flat portion which with the shouldered side, coact with the aforesaid flat stepped portion of the back lever, a locking cam pivotally mounted in the end of the handle opposite the blade pivot end, said cam having its inner end rounded and adapted to have wiping contact with the adjacent end of the back lever, and its outer end projecting beyond the end of the handle and having a serrated rounding edge, terminating in a stop shoulder adapted to abut the adjacent end of the back lever to lock the blade in complete open or closed position, substantially as herein shown and described.

1,373,994. CONTROLLING DEVICE FOR PHONOGRAPHS. EUGEN O. BREUNING, Hoboken, N. J. Filed Mar. 18, 1920. Serial No. 366,750. 11 Claims. (Cl. 161—23.)



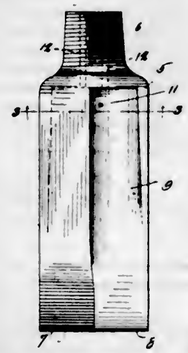
1. Means for controlling the operation of a phonograph comprising a vertically movable tone arm support, slidable means for effecting vertical movements of the same, and a device carried by said means adapted to co-act with the brake for causing the release of the same from the turn table upon movement of the slidable means in a direction to effect the lowering of the tone arm support.

1,373,995. AUXILIARY CAR-STEP. HERBERT L. CLAPP, Checotah, Okla.; Myrtle A. Clapp administratrix of said Herbert L. Clapp, deceased. Filed Oct. 14, 1919. Serial No. 330,574. 2 Claims. (Cl. 105—449.)



2. The combination with a stationary stairway having a tread and a riser, of an auxiliary step including a tread and a riser and adapted to be arranged at times on the stationary tread, of a locking rod arranged rearwardly of the stationary riser, locking means carried by the locking rod, means to normally retain said locking means in engagement with the riser of the auxiliary step, and means to suspend the auxiliary step in extended position.

1,373,996. WELL-DRILLING TOOL. FRANKLIN H. CLORE, Livingston, Tex. Filed Dec. 29, 1919. Serial No. 348,146. 2 Claims. (Cl. 255—61.)



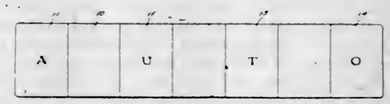
1. In a well bit, a body having a threaded shank with ports extending longitudinally therein on opposite sides of the longitudinal axis of the said shank, the said body having concavities in each face oppositely disposed on opposite sides of the longitudinal axis, the surfaces of the concavities being curved and the cutting edges of the bit being curved, the said cutting edges extending oppositely.

1,373,997. APPARATUS FOR LIFTING AND TRANSPORTING GLASS AND OTHER PLANE-SURFACE ARTICLES. GEORGES HENRI LÉON DEBAECKER, Sas-de-Gand, Netherlands, assignor to Société Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France, a Corporation of France. Filed Jan. 30, 1920. Serial No. 355,213. 5 Claims. (Cl. 294—65.)



1. Apparatus for lifting and transporting glass and other plane surface articles, comprising a movable lifting frame, a plurality of suction chambers carried by the said frame, each suction chamber comprising a cylinder and a piston, the piston rods of the said cylinders being suspended from the frame, means at the contacting end of the suction chamber to make air-tight joint with the surface of the article to be lifted when the frame is lowered to operative position, the piston moving in the cylinders to produce a partial vacuum therein when the frame is raised.

1,373,998. GAME. NELSON D. DILLON, Seattle, Wash. Filed Apr. 27, 1920. Serial No. 377,040. 4 Claims. (Cl. 46—25.)



1. A game, including a number of cards sub-divided into a number of series, said cards bearing upon their faces an aggregation of unrelated characters, certain of said characters being in predominance upon the face of each card, whereby to render the series to which each card belongs capable of detection from its face, each of said cards containing an identification mark upon its back presenting an instantaneous recognition of the series to which each card belongs, the series, when the cards are properly arranged, expressing a unitary thought.

1,373,999. GUN-CLEANER. ALEXANDER COCHRAN DRUMMOND, Ilion, N. Y. Filed July 22, 1920. Serial No. 398,088. 2 Claims. (Cl. 42—91.)

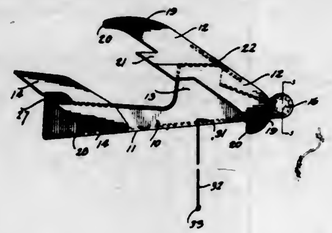


1. A cleaning device, comprising a stem, a head on one end of the stem having an opening therethrough, a wire having its intermediate portion projected through the opening and its ends positioned spirally around the stem forming cleaning blades, and adjustable means on the stem engaging the free ends of the blades.

1,374,000. TOY AEROPLANE. WILLIAM HOBARD DUNN, Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,462. 7 Claims. (Cl. 244—12.)

1. In a toy aeroplane, the combination, of a fuselage, an overhanging plane mounted forwardly upon the fuse-

lage, a tail plane mounted rearwardly upon the fuselage, detachable means for maintaining said overhanging plane



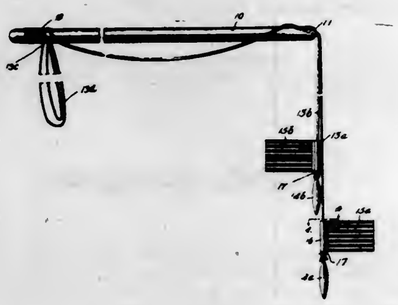
in rigid position, and means for adjustably positioning said tail plane at any predetermined angle with respect to the fuselage.

1,374,001. MOWER-GUARD. JOHN R. EDGAR, Ava, Ill. Filed July 31, 1920. Serial No. 400,420. 1 Claim. (Cl. 56—298.)



The combination with a mower bar, of guard fingers secured to the mower bar and comprising integral upper and lower portions, both of said portions secured to the mower bar, lugs on the lower portions of the fingers, shear plates located on the lower portions and having notches receiving the lugs, rivets securing said shear plates in the fingers, a reciprocating cutter bar mounted in the fingers, cutter blades secured to the cutter bar and located over the shear plates, and the upper portions of said fingers having bearing surfaces thereon exerting pressure on said movable cutter blades.

1,374,002. WHIRLING TOY. JOHN TRACEY EDSON, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,842. 3 Claims. (Cl. 46—14.)

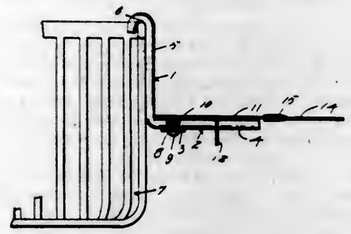


1. The herein described whirling toy comprising a rigid handle having a bearing eye formed at its end, a plurality of flexible connections of variable length extending through said eye and a weight attached to each flexible connection, the flexible connections being adapted to be moved through the eye to vary their length during the whirling of the weights around said eye as an axis.

1,374,003. RECLAIMING DRY BATTERIES. CARLETON ELLIS and ALFRED A. WELLS, Montclair, N. J., assignors, by mesne assignments, to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 29, 1917, Serial No. 194,072. Renewed June 14, 1920. Serial No. 388,983. 16 Claims. (Cl. 204—38.)

1. The process of reclaiming spent dry batteries of the Leclanche type which comprises heating the battery to a temperature to melt the pitch and soften the solder, in stripping the zinc sheet from the carbon and depolarizing element, in separating the carbon element, and in reviving the depolarizing material.

1,374,004. SADIRON-HOLDER FOR FIREPLACES. AMELIA J. ENNIS, Columbus, Ga. Filed May 31, 1919. Serial No. 300,818. 1 Claim. (Cl. 126—336.)



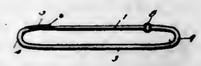
An iron holder comprising arms having angularly disposed end portions and provided at one end with hooks, a bar adjustably connected with the lower end portions of the arms, a platform, a handle attached to the platform, a strip applied to the underside of the platform and traversing the length thereof and provided with openings adapted to receive the lower end portion of the arms.

1,374,005. ADVERTISING DEVICE. CIRIACO GARCILLÁN, New York, N. Y. Filed May 27, 1920. Serial No. 384,671. 2 Claims. (Cl. 40—142.)



1. A device of the character described comprising a pair of spaced parallel bars, a plurality of letter plates carried by said bars, and detachable means embodying a clip having an integral tongue adapted to be bent relative to the body portion of the clip and into engagement with the bars and having letter-plate-engaging means adapted to engage the letter plates and maintain them in proper position with respect to said bars, substantially as described.

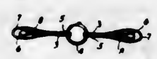
1,374,006. COLLAR-PIN. STANLEY LINCOLN GEDNEY, Maplewood, N. J. Filed Apr. 3, 1920. Serial No. 371,032. 1 Claim. (Cl. 24—161.)



A collar pin, comprising a single length of wire bent into the form of an oval in which the two longitudinal portions are substantially parallel when in normal position, a

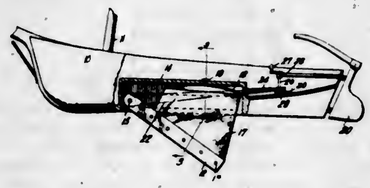
pin of less diameter than the main portion of the wire and formed on one end of the wire, a keeper formed on the other end of the wire receiving the pointed end of the pin, and an integral annular enlargement on the wire at the juncture of the pin with the larger diameter of wire, said enlargement forming a shoulder spaced from one end of the oval a distance equal to the distance between the free end of the keeper and the other end of the oval, whereby when said pin is in position in a collar, both ends of the oval will be projected equal distances from the outer face of the collar.

1,374,007. COLLAR-FASTENER. STANLEY L. GEDNEY, Maplewood, N. J. Filed July 16, 1920. Serial No. 396,653. 3 Claims. (Cl. 24—81.)



1. A connected collar fastener, comprising a pair of collar engaging spring clamps, said fastener composed of wire, and the clamps consisting each of a pair of jaws having their free ends flared apart, one of said jaws constituting a loop and the other of said jaws normally positioned within the loop.

1,374,008. CENTERBOARD. FRANK ARCHIE GRAHAM, Harbor Springs, Mich. Filed Aug. 13, 1920. Serial No. 403,374. 7 Claims. (Cl. 114—134.)



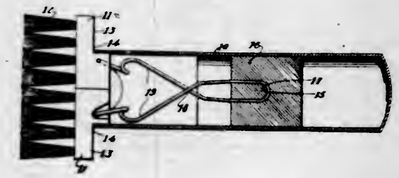
1. In a centerboard, the combination with the centerboard housing of a boat, of a rigid element pivotally mounted in said housing adapted to extend below the keel of a vessel, and a flexible element extending between said vessel and said rigid element adapted to increase the lateral resistance of said boat when sailing.

1,374,009. HOSE-SUPPORTER. FRED D. GRAVES, Owego, N. Y. Filed July 30, 1920. Serial No. 400,135. 1 Claim. (Cl. 24—245.)



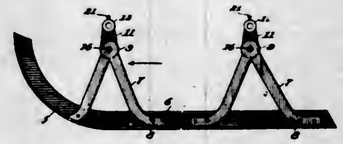
As a new article of manufacture, a garment supporter including a flexible strip of tape, and a non-resilient sheet metal button carrying plate associated therewith, said plate having parallel slits therein, said tape threaded through said slits, the intermediate portion of said plate between said slits being normally offset from the plane of the plate to permit the passage of the tape through the slit, and adapted to be pressed into the plane of the other portion of the plate to permit clamping action of the walls of the slits on said tape.

1,374,010. FOLDABLE CLOTHESBRUSH. WILLIS R. HENKLE, Lima, Ohio. Filed Oct. 11, 1920. Serial No. 415,978. 6 Claims. (Cl. 15—30.)



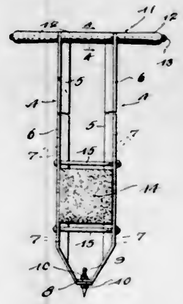
1. A brush including a casing which constitutes the handle of the brush, a sectional brush head slidable in the casing, and means arranged within the casing for holding said sections of the head associated for use beyond one end of the casing, and in folded position within the casing.

1,374,011. RUNNER ATTACHMENT FOR CHILDREN'S VEHICLES. JOHN HUDRY, Hazleton, Pa. Filed June 21, 1920. Serial No. 390,406. 8 Claims. (Cl. 280—14.)



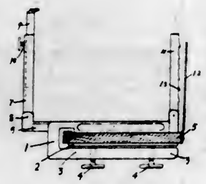
8. A sled, comprising a top, side rails projecting beyond the front end of said top, a cross-bar or foot-rail connecting the front ends of said side rails and projecting beyond the outer sides thereof, axles secured to the underside of said top and side rails and projecting beyond the sides thereof, and runners having pivotally adjustable axle-engaging hub members adapted to be detachably fixed upon said axles, said runners having openings at their forward ends adapted to fit upon the projecting ends of the cross-bar or foot-rail, and detachable fastening means for securing the runners in place upon said cross-bar or foot-rail.

1,374,012. DISK-SHARPENER. CARL B. HUTCHINS, Algona, Iowa. Filed May 13, 1920. Serial No. 381,129. 3 Claims. (Cl. 51—211.)



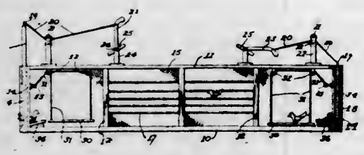
1. A sharpening device of the class described comprising a pair of spaced angle-bars connected together at their lower ends, each bar having one of its flanges inturned, the other flange being apertured, an abrasive element disposed between the apertured flanges and resting against the inturned flanges, bolts extending through said apertures, there being one bolt above and one below the abrasive element serving to clamp the flanges with which they co-act against said element, thus retaining it in place, and a handle at the upper ends of the bars.

1,374,013. LUGGAGE-CARRIER. PERRY JACKSON, Los Angeles, Calif. Filed May 10, 1920. Serial No. 380,313. 1 Claim. (Cl. 224—29.)



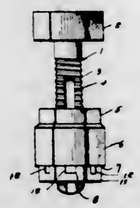
A luggage carrier, comprising in combination with a U shaped base, a member adapted to reciprocate horizontally, in a track or groove, in said U shaped base, and a vertical telescopic member, with set screw locking means and an upper attached ring, said vertical telescopic member combined with and fulcrumed at its lower end, to said first mentioned member, in a manner to allow of limited oscillation, in one plane, of approximately 90°, and a further vertical member, in combination with said base, and fulcrumed thereto, having raised projections thereon, substantially as shown, and an adjustable side jaw member attached to the lower jaw of said U shaped base, allowing same to be clamped in a predetermined position, substantially as shown.

1,374,014. BIRD-TRAP. LUCIAN JAKUBOWSKI, Dexter, N. Y. Filed Mar. 19, 1919. Serial No. 283,555. 1 Claim. (Cl. 43—76.)



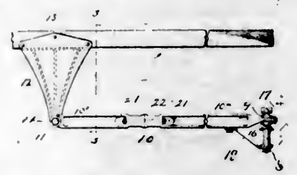
A device of the class described comprising a substantially rectangular frame, vertical posts at one end of said frame, vertical grooves on the inner sides of said posts, a door adapted to slide vertically in said grooves between said posts, eyelets on the top of said door, cords attached to said eyelets, pulleys mounted upon the top of said frame, said cords passing between said pulleys, a bar pivotally mounted on the top of said frame, said cords being secured to the end of said bar, a hanging platform in said frame, cords attached to said platform, pulleys in said frame, said last-named cords passing over said pulleys, holes in said posts communicating with said grooves, pins adapted to slide in said holes, eyelets on said pins, said last-named cords being attached to said last-named eyelets.

1,374,015. SAFETY LOCK-BOLT. JOSEPH JERRUSS and ALPHONSO F. FREGLY, Patton, Pa. Filed Aug. 17, 1920. Serial No. 404,114. 5 Claims. (Cl. 151—29.)



2. A nut lock including a screw threaded bolt having a groove, inner and outer nuts threaded on said bolt, a tension locking means between said nuts and engaging the groove to prevent rotation thereof in relation to the bolt, said locking means receiving one of the nuts and having a locking connection with the other nut to prevent relative rotation of the nuts in relation to each other and with the bolt.

1,374,016. SAFETY RADIUS-ROD. BRUCE B. KELLER, Scranton, Pa. Filed July 30, 1920. Serial No. 400,100. 7 Claims. (Cl. 267—66.)



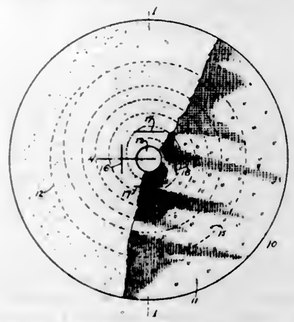
7. In a vehicle, a radius rod comprising two members swiveled together end to end, said swiveling ends having alined bolt holes terminating in transverse openings and a bolt extending through the bolt holes and having its ends terminating in the transverse opening, and fastening heads on the bolt ends.

1,374,017. LID-LIFTER FOR RECEPTACLES. GLENN A. KNAPP, Hugoton, Kans. Filed July 16, 1920. Serial No. 396,664. 1 Claim. (Cl. 220—43.)



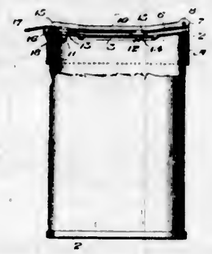
A device for removing a receptacle cover including a rigid member carried by the receptacle and extending upwardly adjacent the side wall thereof, a cover for the receptacle, a perforated ear on the cover extending at right angles therefrom and forming a finger piece, said rigid member having its upper end projecting through the perforated ear, a horizontally disposed engaging member at the upper end of the rigid member whereby said engaging portion and ear can be engaged by the thumb and fingers of the hand for removing the cover.

1,374,018. BUFFING OR POLISHING WHEEL. ALEXANDER LEVETT, New York, N. Y. Filed Apr. 16, 1919. Serial No. 290,449. 5 Claims. (Cl. 51—193.)



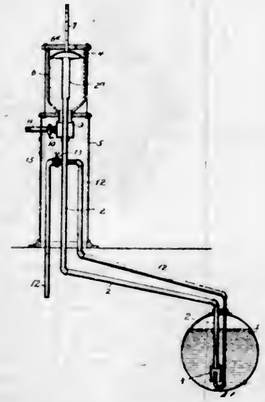
1. A polishing or buffing wheel having a body formed of superimposed layers of woven textile fabric, each layer being provided with a central opening and with slits adjacent the central opening, sundry of the slits extending approximately parallel to the weft and sundry of the slits extending approximately parallel to the warp.

1,374,019. COMBINED CAN OPENER AND SANITARY SEALER. CHARLES A. LOWE, Denver, Colo. Filed Mar. 26, 1920. Serial No. 369,023. 2 Claims. (Cl. 220—51.)



1. The combination with a can having the usual flanged top secured thereon, of a band clamped around the can adjacent to the flange of the top, so that the flange prevents the band from being pulled off the can, and an arm fulcrumed at one end upon the band and extending diagonally across the can head, and carrying means for puncturing the can head, and means for fastening the free end of the arm when the latter is in its normal position.

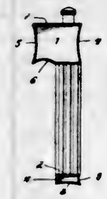
1,374,020. GASOLENE SERVICE-TANK. ABNER JUDSON MCGEHEE, Jackson, Tenn. Filed Oct. 4, 1919. Serial No. 328,526. 5 Claims. (Cl. 221—100.)



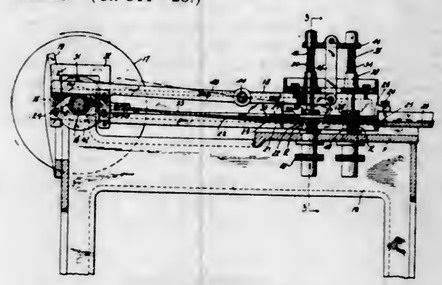
1. In a gasolene dispensing apparatus, the combination of a main tank, a dispensing tank, a gasolene supply pipe leading from the main tank to the dispensing tank and communicating with both, the end of the pipe within the main tank terminating near the bottom of the latter in an enlargement open at its lower end, a pipe leading from a source of compressed air and discharging into the enlarged end of the pipe leading to the dispensing tank, a discharge pipe from the latter, a valve in the discharge pipe and a valve in the air pipe.

1,374,021. RADIATOR. CARL MCNEELY, Polk, Nebr., assignor of one-third to Clinton Lewis Ayres, Polk, Nebr. Filed Jan. 16, 1918. Serial No. 212,088. 2 Claims. (Cl. 257—125.)

1. In a radiator, the combination of a top header, a bottom header, and a series of water tubes connecting said top and bottom headers and communicating therewith, said top and bottom headers constituting water compartments and each of said compartments comprising an inwardly dished wall thereby presenting an enlarged cooling surface within a given space and allowing such portion of each compartment to bend outwardly under excessive internal pressure.

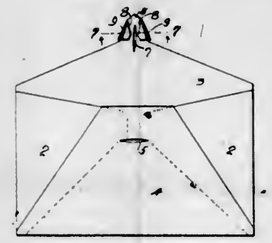


1,374,022. CORK-CUTTING MACHINE. MELCHOR MARSA, New York, N. Y., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 30, 1919. Serial No. 334,407. 7 Claims. (Cl. 144—23.)



1. In a disk cutting machine, the combination with a frame, of a bodily stationary rotary tubular cutter mounted thereon, a work holder comprising a support having an aperture through which said cutter is adapted to extend and a presser foot for forcing said support and the material thereon against said cutter, said presser foot having an enlargement adapted to bear against said support and being provided in said enlargement with an annular groove accommodating the cutting edge of said cutter, springs working against said support having a tendency to cause the same to move in a direction opposite to which it is moved by said presser foot, a toothed feeding slide coacting with said support, said slide and work support being movable toward and from one another, and means for preventing said support from contacting with said slide when the machine runs idle, said contact preventing means being deeper than the teeth of said slide and interposed directly between said support and slide and permanently associated with one at least.

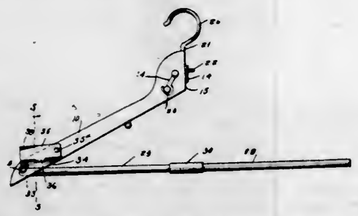
1,374,023. FASTENING DEVICE FOR PACKAGES. HENRI MORIER, Killingly, Conn. Filed Dec. 11, 1919. Serial No. 344,260. 3 Claims. (Cl. 229—84.)



1. In a device of the class described, the combination of a body provided with a primary and an auxiliary flap,

said auxiliary flap provided with a slit, said primary flap provided with a tongue, said tongue provided with wings having stiffening ribs formed thereon, and said tongue and wings adapted to fit in the slit of the auxiliary flap.

1,374,024. GARMENT-HANGER. JOHN R. MORTON, League City, Tex. Filed Sept. 7, 1920. Serial No. 408,520. 3 Claims. (Cl. 211—13.)



1. In a device of the class described, a plurality of hingedly connected arms, a transverse brace for retaining said arms in an extended position, said brace comprising a plurality of sections detachably connected, each of said arms being formed with a socket for receiving the corresponding end of the brace, and one of the sockets having communication with an entrance slot, and a pivoted plate for closing said slot and retaining the end of the brace within the socket.

1,374,025. FASTENER. FRANK M. MULLINS, Havelock, New Brunswick, Canada. Filed Aug. 31, 1920. Serial No. 407,284. 1 Claim. (Cl. 24—226.)



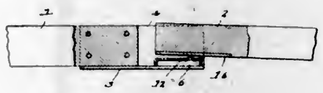
In a garment fastener, two flat substantially rectangular plates having openings at the corners thereof, one of said plates having a central longitudinal downwardly inclined depressed portion which terminates with a slot which is arranged transversely of the said plate, the portion of the plate inward of the slot being bulged upwardly and the said bulged portion having its outer edge provided with a shoulder, the second plate being slitted transversely and longitudinally and the metal bounded by the slit bent to provide a tongue that terminates in a downturned lip, and said tongue being arranged below the outer surface of the said plate, said tongue being of a width corresponding to that of the depression in the first mentioned plate and designed to be received therein and to have its lip contact with the inner wall of the slot and to be contacted by the inner wall of the bulged portion of the first mentioned plate, and the wall provided by the transverse slot in the second mentioned plate designed to contact with the shoulder of the bulged portion of the first mentioned plate, when the plates are associated.

1,374,026. BRACKET FOR CURTAIN-POLES. HARRY H. NELSON, Minneapolis, Minn., assignor of one-half to Peter A. Nelson, Minneapolis, Minn. Filed May 14, 1920. Serial No. 381,422. 1 Claim. (Cl. 156—19.)



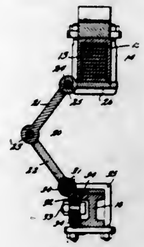
The combination with a curtain pole having a threaded end, of a bracket having an internally threaded opening, a flared portion and an inwardly extending flange, and a flexible element contacting with the outer surface of the flange, said flexible element including a plurality of spaced circumferential flanges having interlocking engagement with the inwardly turned flange of the bracket.

1,374,027. SIGNAL FOR RAILWAY-CROSSING GATES. ELMER O. NOESKE, Milwaukee, Wis. Filed Dec. 6, 1918. Serial No. 265,668. 4 Claims. (Cl. 200—159.)



1. The combination with a pair of spaced members pivoted for movement toward and away from each other, of a member carried by and projecting beyond the end of one of said members, and designed to receive the adjacent end of the other member, a switch including a switch operating element disposed in the path of movement of the second mentioned member, whereby said switch is closed upon the final position of said members when moved toward each other.

1,374,028. ALINEMENT DEVICE FOR AUTOMOBILES. CLIFFORD S. PEETS, Great Neck Station, N. Y., assignor to Charles Dillon, Great Neck, N. Y. Filed Mar. 17, 1920. Serial No. 366,509. 4 Claims. (Cl. 267—66.)



4. In an automobile of the type described, an alinement device, comprising a hinge having an upper leaf, a lower leaf and a transverse pintle connecting the leaves with each other, a clip having a clip plate provided with an eye, the clip connecting the middle of the front spring of the automobile with the chassis, a transverse pintle pivotally connecting the upper end of the said upper leaf with the said eye, an eye plate pivotally connected with the lower end of the said lower leaf, a supporting member, a clip fastening the said supporting member to the front axle, and a pivot connecting the said eye plate with the said supporting member, the pivot being at an angle to the front axle.

1,374,029. TONE-FOOT FOR PHONOGRAPHS. WILLIAM H. PRICKETT, Trenton, N. J. Filed Aug. 31, 1920. Serial No. 407,122. 3 Claims. (Cl. 84—191.)



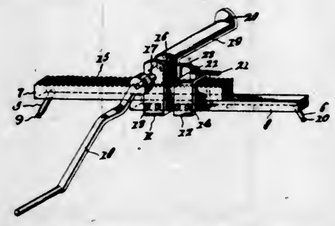
3. As a new article of manufacture, a rubber base, and a glass insert therein of cup shape, said base presenting an undercut depression therein and said insert presenting a corresponding external conformation.

1,374,030. INSOLE FOR BOOTS AND SHOES. FELIX EDWARD RICE and WILLIAM ALBERT RUSH, Northampton, England. Filed Apr. 1, 1920. Serial No. 370,492. 1 Claim. (Cl. 36—22.)



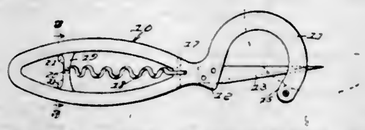
An insole including a sole portion and a heel portion, a wedge shaped member forming a part of the insole and secured to the upper surface thereof, said wedge shaped member having one edge thereof forming an abutment, a cushioning member adapted to be assembled with the above portions after the attachment of the heel and to engage the abutment, and means carried by the cushioning member and adapted to overlap the wedge member for cushioning the upper surface of the wedge member.

1,374,031. DEMOUNTABLE-AUTOMOBILE-RIM TOOL. OLIVER M. RICE, Birmingham, Ala. Filed Feb. 10, 1920. Serial No. 360,011. 3 Claims. (Cl. 157—1.)



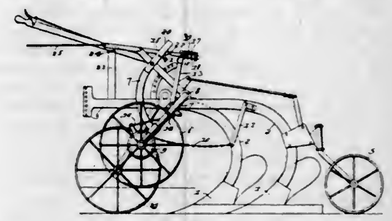
1. A tool of the character described comprising a pair of companion bars slidable one upon the other and having pins projecting at acute angles to the longitudinal axes of the bars to engage openings made in a demountable rim at opposite sides of its cross cut, means carried by one bar and operating in conjunction with the companion bar whereby to slide said bars relatively, operating means for said last named means, supporting means for said bar sliding means, a supporting foot having an angularly disposed toe extending from said supporting means, and means supported by one bar and engaging the other bar for holding said bars in any position of adjustment, substantially as described.

1,374,032. CONVERTIBLE CAN-OPENER. WILLIAM H. ROACH, Lindsay, Calif. Filed May 24, 1919. Serial No. 299,533. 1 Claim. (Cl. 30—3.)



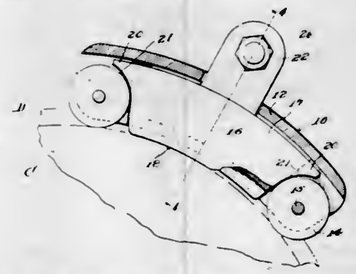
A tool of the class described having a shank or handle and a hook-shaped head, a bearing element depending from the extremity of the head and provided with a corrugated concave bearing surface for contact with a can wall, and a longitudinal tapering blade intersecting the throat of said head in the plane of the said bearing element, the hook overhanging and engaging the top of the can to act as a guide for the blade during the cutting operation of the latter.

1,374,033. PLOW ATTACHMENT. WILLIAM R. SCHWARTZ, Independence, N. D. Filed Mar. 21, 1919. Serial No. 283,949. 5 Claims. (Cl. 97—55.)



1. The combination with a plow having means for elevating its ground working elements consisting of a swinging arm, a wheel rotatively mounted at the lower end of the arm and clutch control means operatively connected with the wheel for shifting the arm rearwardly, of a lever pivotally mounted on the plow and operatively connected with said clutch controlled means, a bar operatively connected with the lever at one end to provide for the operation of the lever upon longitudinal movement of the bar, a lock engaging the bar when the lever is in operative position, and a trip for the bar to release the same from the lock and thus render the clutch controlled means inoperative after the arm has moved through a prescribed distance.

1,374,034. RAILROAD-BRAKE. JAMES E. SCOTT, Louisville, Ky. Filed June 3, 1920. Serial No. 386,242. 3 Claims. (Cl. 188—262.)



1. A brake shoe comprising a longitudinally curved casing U-shaped in cross section and having its bight portion formed with an opening, rollers journaled transversely of said casing at the ends thereof, a shoe proper disposed within said casing and having a curved face adapted to engage the tread of a wheel, extensions formed on the ends of said shoe proper and having curved faces adapted to engage the peripheries of said rollers simultaneously with the engagement of said face with the tread of a wheel, and an attaching lug carried by the shoe proper and slidably disposed through said opening.

1,374,035. PROCESS FOR PRODUCING LOW-CARBON FERROTITANIUM. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,328. 4 Claims. (Cl. 75—1.)

1. The method of producing low-carbon ferro-titanium which comprises the mixing of commercial ferro-titanium

with an excess of titanic oxid and then heating the mixture in an electric furnace so as to decompose the double carbid of titanium and iron and form a protective blanket of slag which consists substantially of titanic oxid.

1,374,036. PROCESS FOR PRODUCING LOW-CARBON FERROTITANIUM. HUGH C. SICARD, Buffalo, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,329. 5 Claims. (Cl. 75—1.)

1. The process of producing low-carbon ferro-titanium comprising the formation of a double carbid of iron and titanium containing a high percentage of carbon, then treating the molten bath of this material with aluminum so as to cause the separation of the carbon in the graphitic form, then skimming off this carbon, then reheating the molten bath and then casting the resulting product.

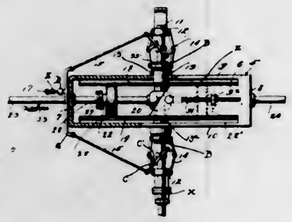
1,374,037. PROCESS FOR THE PRODUCTION OF LOW-CARBON FERROZIRCONIUM. HUGH C. SICARD, Buffalo, N. Y. Filed July 23, 1920. Serial No. 398,512. 6 Claims. (Cl. 75—45.)

1. The method of making a low carbon alloy of iron and zirconium which consists in the decarbonization of a high carbon ferro-zirconium alloy by means of titanic oxid.

1,374,038. PROCESS FOR PRODUCING ZIRCONIUM STEEL. HUGH C. SICARD, Buffalo, N. Y. Filed July 23, 1920. Serial No. 398,513. 5 Claims. (Cl. 75—45.)

1. An improved process of making zirconium steel which consists in adding to molten steel an alloy of zirconium and silicon.

1,374,039. CLUTCH AND CHANGE-SPEED MECHANISM. ORRIN R. STROME, Pleasant Dale, Saskatchewan, Canada. Filed Dec. 1, 1919. Serial No. 341,824. 1 Claim. (Cl. 74—26.)



A mechanism of the class described including a casing having guideways therein, a web located in the casing, a shaft journaled in the casing and in the web, friction disks mounted upon the shafts for independent rotation, means for moving the friction disks toward each other, shafts journaled in the casing and in the web in alinement with each other, friction rolls slidably mounted upon the alined shafts for rotation therewith, a shifting frame connected with both of the rolls for movement of the rolls upon their shafts, guide heads carried by the shifting frame and arranged to work in the guideways, said web having guideways therein, said shifting frame being slidably engaged in the guideways of the web, and means for moving the shifting frame.

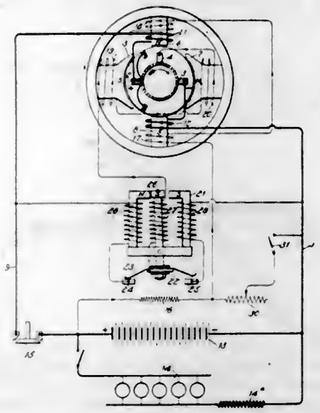
1,374,040. COMBINED SKIRT AND SPORTING-TROUSERS. NILS JOODVIN TJÆRANSEN, Christiansund, Norway. Filed May 16, 1919. Serial No. 297,576. 2 Claims. (Cl. 2—137.)

1. In an article of clothing adapted to be used either as a skirt or as a pair of trousers, the combination of a skirt, two substantially parallel button rows arranged along the splittings in the front and rear of said skirt at one side, the outer one of the said button rows to be used when the article is to be employed as a pair of trousers, and the inner one to be used when the article is to be em-



ployed as a skirt, said button rows leaving open the upper part of the said splittings, and a small inner pair of drawers attached to the inner side of the article, covering from the inside the upper part of said splittings.

1,374,041. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Dec. 18, 1917. Serial No. 207,743. 10 Claims. (Cl. 171—223.)



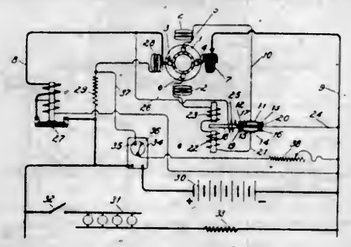
4. In combination, main field poles, auxiliary field poles spaced 90 electrical degrees from said main poles, main brushes coöperating with said main field poles and an auxiliary brush spaced 90 electrical degrees from said main brushes, series windings on said auxiliary poles, main field windings on said main field poles and selective means for connecting said main field windings between said auxiliary brush and one or the other of said main brushes through one or the other of said series windings.

1,374,042. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Jan. 25, 1917, Serial No. 144,464. Renewed Mar. 5, 1921. Serial No. 449,602. 10 Claims. (Cl. 171—313.)

1. In a car-lighting system, in combination, a storage battery, a variable speed generator, said generator having magnetic means coöperating with said battery for insuring constant polarity of said generator, and means responsive to predetermined conditions for causing said magnetic means to cut down the output of said generator.

3. In combination, a storage battery, a variable speed generator having main field windings and an auxiliary winding, said auxiliary winding being connected to said

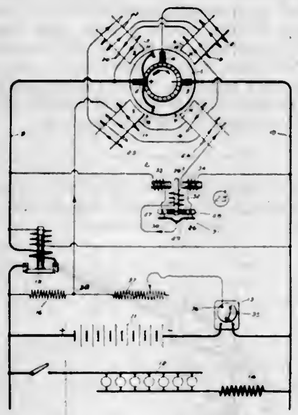
storage battery for controlling the polarity of said field windings under certain conditions and means for causing said auxiliary winding to set up a counter E. M. F. across said field windings under certain other conditions.



6. In combination, a variable speed generator, said generator being provided with main field windings, a winding for insuring constant polarity of said generator regardless of reversals of rotation, and means for connecting said last mentioned winding to cause a reversal of current flow therethrough, whereby to set up an E. M. F. opposed to that of said main windings.

8. A generator having an armature, a plurality of main brushes, a plurality of field coils and a plurality of auxiliary brushes, said auxiliary brushes serving to connect two of said field coils through the armature, a source of current, and connections for connecting another of said field coils either in series between said source and said armature or across said armature.

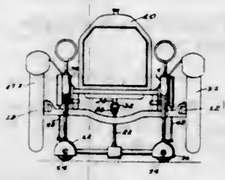
1,374,043. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Jan. 27, 1917, Serial No. 144,971. Renewed Mar. 5, 1921. Serial No. 449,603. 16 Claims. (Cl. 171—313.)



1. In combination, a generator field winding for setting up a field of flux, main field windings located substantially 90 electrical degrees from said first winding, an armature, means whereby said first mentioned winding will have a fixed polarity regardless of the direction of armature rotation while said armature is picking up, and means whereby the polarity of said first mentioned winding may be reversed upon the attainment of predetermined conditions.

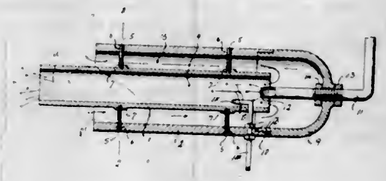
12. In combination, a variable speed generator having main brushes and an auxiliary brush, means for causing a difference in polarity to exist between said auxiliary brush and one of said main brushes, main field windings, and means responsive to the direction of armature rotation for selectively connecting said main field windings between said auxiliary brush and one or the other of said main brushes.

1,374,044. STEERING MECHANISM FOR VEHICLES. EINAR J. VALEUR, New York, N. Y. Filed July 22, 1918, Serial No. 246,082. Renewed Aug. 30, 1920. Serial No. 407,065. 2 Claims. (Cl. 180—1.)



1. A steering mechanism for wheeled vehicles comprising a plurality of pneumatic cylinders carried by the body of the vehicle, pistons movable vertically in said cylinders, a housing carried by the lower end of each of said pistons, a traction wheel mounted in each of said housings, resilient means for normally maintaining the pistons at the top of the cylinders, means connecting said housings and communicating with the interior thereof, and means revoluble in said connecting means and driven by the vehicle motor for imparting rotary motion to the traction wheels.

1,374,045. BURNER. MELBOURNE E. VEZIE, Cement, Okla. Filed Feb. 26, 1920. Serial No. 361,596. 2 Claims. (Cl. 158—99.)

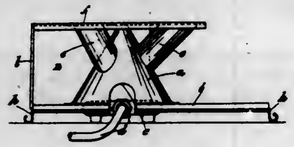


1. In a burner as set forth, inner and outer tubes, diametrically opposite radial means at both ends of the inner tube for holding the former throughout its length in spaced relation to the latter, whereby the air drawn into the space between the two tubes may be heated as it enters the space and circulates around the inner tube, the former having both ends open, the outer tube having an open end adjacent one of the open ends of the inner tube and having its other end closed spaced concentrically from the other open end of the inner tube, the outer tube comprising a pair of united sections, and a gas supply pipe engaged through the closed end of the outer tube and having a perforated end terminating adjacent to and partly within the inner end of the inner tube for injecting a supply of gas thereinto, acting to draw heated air from around the exterior of and forcing it into the inner tube, and means for adjustably holding the gas tube in the closed end of the outer tube, whereby the inner perforated end of the gas tube may be adjusted relatively to the inner open end of the inner tube.

1,374,046. GAS COOKING-STOVE AND LIKE HEATER. GEORGE WAITE, Bexhill-on-Sea, England. Filed Nov. 30, 1920. Serial No. 427,374. 2 Claims. (Cl. 126—216.)

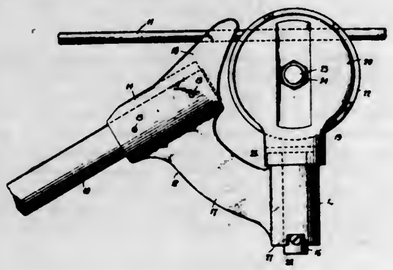
1. A gas cooking or heating apparatus comprising a hollow cone, open at top and bottom, adapted to be set

over a ring burner to receive and conduct heat therefrom, and having a plurality of open tubes diverging upwardly



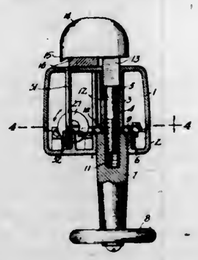
and outwardly therefrom, and means for opening and closing said cone and tubes.

1,374,047. TROLLEY-POLE. MARTIN D. WATROUS, Ansonia, Conn. Filed Jan. 17, 1921. Serial No. 437,076. 4 Claims. (Cl. 191—60.)



1. A trolley-pole having a bracket secured to the upper end thereof, spaced guides fixed to and projecting from said bracket for locating the trolley wire, a trolley-wheel support rotatably mounted in said bracket, and a trolley-wheel rotatably mounted in said support, said guides being located in front of and extending adjacent to the periphery of the trolley-wheel.

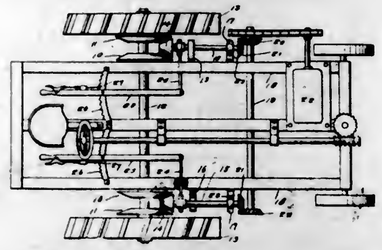
1,374,048. LOCKING DEVICE. DAVID E. WERTS, Olympia, Wash. Filed June 2, 1920. Serial No. 386,017. 11 Claims. (Cl. 70—126.)



1. A locking mechanism comprising a casing, a gripping mechanism extending from said casing, means for moving said gripping mechanism to and from said casing, means for normally limiting to one direction the movement of the above-mentioned means, and key-operated mechanism for releasing at will said second means.

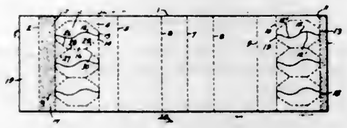
1,374,049. TRACTOR. CHARLES J. WHITE, Leesville, La. Filed Mar. 3, 1920. Serial No. 362,901. 2 Claims. (Cl. 180—17.)

1. The combination with the traction wheels of a motor car and a drive shaft for communicating motion thereto, of transmission mechanism consisting of a pair of oppositely disposed facing friction disks carried by each traction wheel, a conical friction gear disposed between the members of each pair of friction disks for contact with either of said members and arranged in an intermediate or neutral position, line or counter-shafts respectively carrying said friction gears and operatively connected with



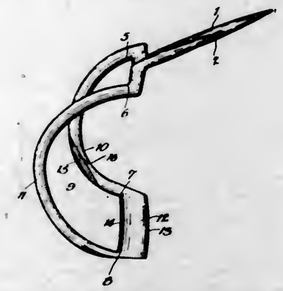
the drive shaft, said line or counter-shafts being mounted for swinging movement in directions perpendicular to the planes of said friction disks, and independent means for imparting swinging movement to the line or counter-shafts to adjust the friction gears relatively to the pairs of friction disks.

1,374,050. EGG-CARTON. JAMES M. YARNALL, Yonkers, N. Y. Filed Aug. 28, 1919. Serial No. 320,457. 3 Claims. (Cl. 229—28.)



1. A carton comprising a pair of hinged sections, each section having a top divided with slits which results in the formation of egg retaining flaps, said tops being integral with the remaining part of the respective sections and a partition member connected to the hinge of said sections, said partition member being positioned to fit between said tops when folded against each other so as to separate the egg carried by said sections.

1,374,051. GARDEN HOE AND WEEDER. WILLIAM G. ANDERSON, Seattle, Wash. Filed Jan. 9, 1920. Serial No. 350,290. 1 Claim. (Cl. 55—41.)



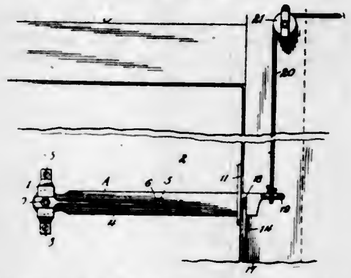
A garden tool comprising two parallel curved bars having bevels on their inner faces and having their upper ends connected to a handle and their lower ends connected by a transverse flattened cutting bar, said bar having a flattened face in a plane substantially perpendicular to the end of the handle.

1,374,052. ABRASIVE ROLLER. PINCUS BRAUNER and EDWARD METZNER, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,864. 2 Claims. (Cl. 51—194.)



1. In a device of the class described, a shaft supported at one or both ends and adapted to be driven in either direction frictionally within the hollow portion of a suitable sleeve, said shaft being flattened at one side to form a suitable space between said side and the opposite wall of said sleeve and having a suitable recess adapted to be set in line with a corresponding cut in said sleeve, abrasive material surrounding said sleeve and with the loose ends of such material normally commencing and terminating within said recess, said shaft being adapted to be so driven as to automatically jam said loose ends within said space and firmly move and constantly keep same so that said material shall be taut about said sleeve regardless of constant pressure or other friction on said material.

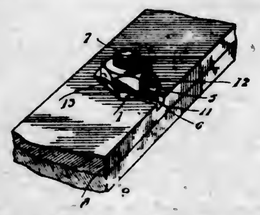
1,374,053. DOOR-LATCH. HENRY N. BRAWNER, Jr., Washington, D. C. Filed June 26, 1919. Serial No. 306,830. 2 Claims. (Cl. 292—225.)



2. The combination with a door, a guide, and a catch, of a latch, a bridge plate arranged transversely of the latch, a stud supported by the door and adapted to pass through alined openings in the latch and bridge plate, and a spring adapted to extend parallel to the latch, one end thereof provided with an opening through which the stud passes, the inner end of said spring bent downwardly against one end of the bridge plate for rigid connection therewith, the outer free end of said spring received in an opening in said latch to exert a downward pressure thereupon to hold it in position, and means attached to the free end of the latch, whence the latch may be released

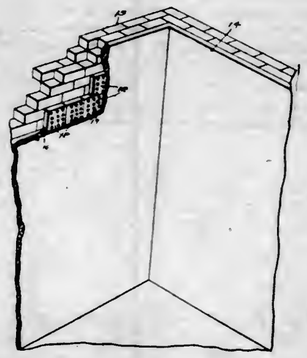
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1,374,054. SPRING LOCK-WASHER. ALEXANDER C. BRIDGE, Lachine, Quebec, Canada. Filed Aug. 12, 1919. Serial No. 317,013. 1 Claim. (Cl. 151—53.)



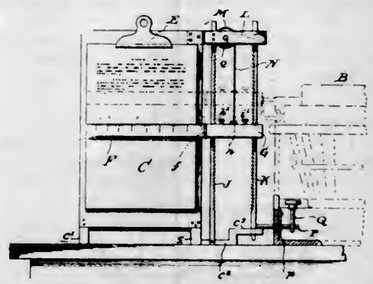
In a washer such as described, the combination of a flat circular piece of metal having a central concentric opening formed therein, said material being cut at diametrically opposite points radially from the center of the metal to the outer edge thereof and thence from the inner edge of said cut portions tangentially to the central opening, said material at the cut portions being bent in like directions forming spring fingers, said radially cut portions being spaced closely together in pairs, and the material at the sides of said pairs being bent tangentially through the central portion thereof at right angles to the material to form locking flanges, substantially as and for the purposes set forth.

1,374,055. MEANS FOR PROTECTING VAULTS. LEONARD E. BUMPASS, Dallas, Tex. Filed Aug. 16, 1920. Serial No. 403,730. 5 Claims. (Cl. 109—6.)



1. The combination with a vault comprising a masonry wall, of an inner liner for said vault wall comprising a plurality of frangible gas containers disposed in contact with the inner side of said wall.

1,374,056. COPY-HOLDER. FRANCIS W. BEEGHLEY, U. S. Navy. Filed Dec. 27, 1919. Serial No. 347,675. Renewed Feb. 25, 1921. Serial No. 448,257. 7 Claims. (Cl. 120—34.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



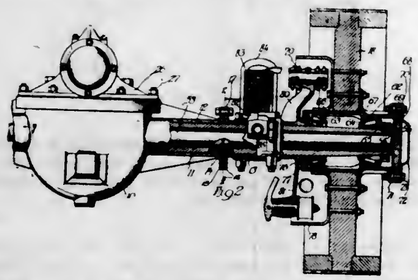
2. The combination with a typewriting machine of a copy holder, comprising a copy-supporting plate, a line indicator adapted to move over said plate, a pawl carrier to which the line indicator is connected, pawls mounted on said carrier, rack bars coöperating with the pawls, an operating key mounted within the typewriter frame, a bracket secured to the frame of the typewriter, a shaft extending through said bracket and to which the key is attached, a spring within the typewriter frame attached to the key for moving it in one direction, devices for attaching one end of the spring to a part of the typewriter frame, a connection between one of the rack bars and said shaft, and devices carried by the pawl carrier coöperating with one of the rack bars for holding the pawl carrier and the line indicator in set position.

1,374,057. SCREWDRIVER ATTACHMENT. WILLIAM JAMES CARLIN, Vallejo, Calif. Filed June 5, 1919. Serial No. 301,863. 1 Claim. (Cl. 145—52.)



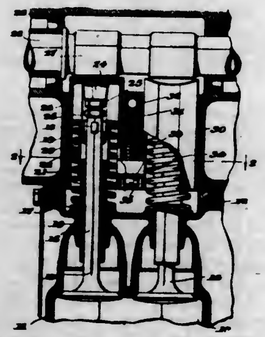
In combination with a screw driver, a spring casing slidable upon the shank of said screw driver, a spring therein coiled around said shank and abutting at one end against the inner end of said casing, a guideway secured to the shank for the spring casing, against which the other end of the spring abuts, a wire doubled to form a loop surrounding and retained by said casing, sides of said wire extending from said loop closely adjacent to each other approximately parallel with the shank of the screw driver, then extending transversely to said shank to the other side thereof, then extending approximately parallel with said shank, and then, at a point substantially opposite to the end of the screw driver, extending transversely to said shank and to the other side thereof and diverging at their ends and bands surrounding the portions of the wire which extend parallel to the shank.

1,374,058. MOTOR-VEHICLE. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 6, 1916. Serial No. 95,882. 10 Claims. (Cl. 64—89.)



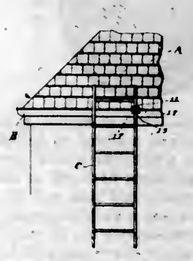
1. In an axle, the combination with a stationary supporting structure, of a wheel mounted at the end thereof and having more than two driving recesses, and a driving shaft in said supporting structure having driving lugs adapted to fit said recesses, there being line contact only between the ends of said lugs and said recesses for centering said shaft.

1,374,059. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 6, 1919. Serial No. 302,126. 4 Claims. (Cl. 123—90.)



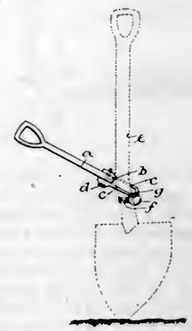
1. In a hydrocarbon motor, in combination with a valve, a cam and its shaft, a push rod member between the cam and valve, a removable partition wall adjacent said member and key secured to the bottom of said wall and engaging said member.

1,374,060. LADDER-CLAMP. RAINSFORD K. CHUTE, Everett, Mass. Filed Oct. 27, 1919. Serial No. 333,718. 1 Claim. (Cl. 228—60.)



A device for holding a ladder immovable with respect to a roof gutter, comprising a U-shaped bracket adapted to straddlingly engage upon one side of a ladder and having down-turned ends disposable within a gutter and terminating in penetrating prongs, a screw threaded through the bight portion of the bracket and having a head whereby it may be turned, and a plate swiveled upon the other end of the screw and provided with tines adapted for penetrating engagement with the ladder.

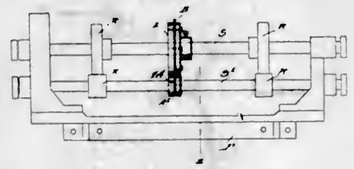
1,374,061. SHOVEL, SPADE, AND THE LIKE. ARTHUR BERTRAM COLEMAN, Gosnells, near Perth, Western Australia, Australia. Filed Jan. 7, 1920. Serial No. 349,972. 1 Claim. (Cl. 294—58.)



In combination with a spade having a main handle, a secondary handle, a U-shaped member embracing the main handle and connected to one end of said secondary handle, and an eye band secured to said main handle having a large opening therein for loosely engaging the loop of said U-shaped member and thereby acting as a loose pivotal connection therefor.

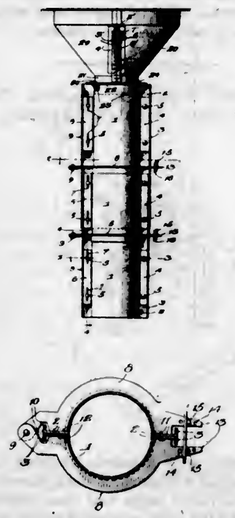
1,374,062. PERFORATING AND CUTTING DEVICE FOR MULTIGRAPHS. WILLIAM TAYLOR COLLINS, deceased, Tallahassee, Fla., by John Wailes De Milly, administrator, Tallahassee, Fla. Filed Mar. 15, 1920. Serial No. 365,976. 1 Claim. (Cl. 164—99.)

A device of the character described comprising, a roller including combination sections, a blade secured between the sections and having the cutting edge thereof projecting beyond the periphery of the sections, means for securing the sections together, and a second roller comprising sections, fastening members extending through the sections at intervals and securing the sections together, and a ring interposed between the sections of the second roller



and disposed within the area defined by the fastening members for maintaining the sections in spaced relation to accommodate the cutting edge of the blade.

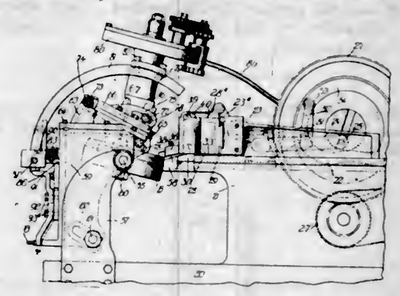
1,374,063. CONCRETE-COLUMN FORM. GEORGE W. CORBETT, Sioux Falls, S. D., assignor to Nels A. Nelson and Cornelius O. Wastun, Sioux Falls, S. D. Filed June 4, 1920. Serial No. 386,537. 5 Claims. (Cl. 25—127.)



1. In a concrete form, telescopic sections, each consisting of two mating parts, each part having an outwardly extending flange at each side thereof, the outer sides of the flanges being turned outwardly at right angles to form channels, angle bars in the channels abutting the sections to brace the latter, slotted bolts extending through the angle bars and flanges, wedges extending through the slots of the bolts and impinging against the adjacent angle bars, clamps consisting of hinged sections having parts received in the channels and having tapered arms at their free sides, slotted bars wedged over the tapered arms, said arms having rows of perforations, and tapered pins engaged through the perforations and abutting the slotted bars to hold the latter in place.

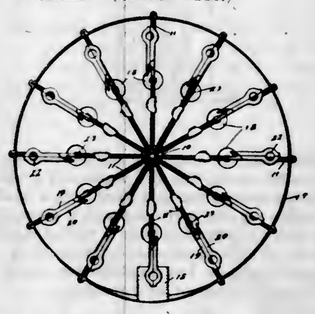
1,374,064. MACHINE FOR CUTTING TEETH. CHARLES E. DERR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 20, 1915. Serial No. 67,859. 15 Claims. (Cl. 90—9.)

1. In a machine of the class described, in combination, a circular blank, a cutter, and means for relatively operating the cutter and blank so that the cutter's deepest cutting point may operate substantially in a plane clear



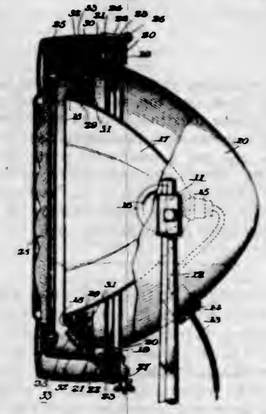
of all other cut portions of the blank, and means for producing an additional relative rolling movement of the blank and cutter to generate the desired cut surface.

1,374,065. WHEEL-PROTECTOR. ALEXANDER DIANA, San Francisco, Calif. Filed Apr. 14, 1920. Serial No. 373,945. 5 Claims. (Cl. 280—160.)



1. A shield for wheels comprising an annulus, a plurality of radially disposed elements having corresponding extremities pivoted on said annulus, a flexible covering for said elements, means for supporting the shield upon the wheel at one side thereof, a pocket in said shield and a weight arranged in said pocket for the purpose specified.

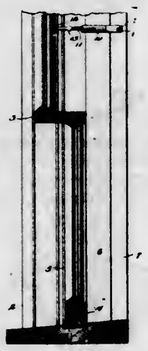
1,374,066. MOTOR-VEHICLE. FRANK J. DRUAR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1917. Serial No. 202,507. 10 Claims. (Cl. 240—41.)



1. A lamp having a reflector provided with a spherical rim portion disposed at an angle to the main body portion

of the reflector and lying forward of the lamp bulb, a support for the reflector, means of engagement between such support and rim portion, the rim portion of said reflector being adjustable on said support about the horizontal axis of the lamp body.

1,374,067. SASH-TIGHTENER. ADELARD JOSEPH DUBEE, Glens Falls, N. Y. Filed July 23, 1920. Serial No. 398,348. 1 Claim. (Cl. 292—63.)



The combination of a member provided in one end with an aperture for permitting the passage of a screw or the like for pivotally securing said member to a window frame and provided at its opposite end with a threaded portion, a presser member provided with a threaded portion said members being held in relative adjustment by means of said threaded portions, and manipulative means for effecting relative adjustment of said members.

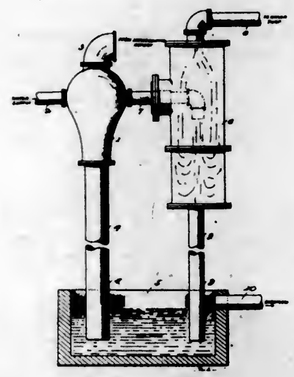
1,374,068. SAND-UNLOADING DEVICE. NOBLE C. DUNN, Little Rock, Ark. Filed Apr. 12, 1918. Serial No. 228,285. 4 Claims. (Cl. 37—9.)



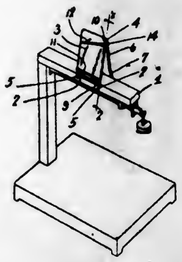
1. In a sand unloading device, a bin having its sides inclined inwardly from the top to the bottom thereof, a suction pipe arranged longitudinally in the bottom of the bin and passing therethrough, in combination with a pump for the suction pipe and a means for partly flooding the bin to arrange the suction pipe therebelow; of sleeves comprising tubular valves arranged on the suction pipe, and means for sliding the tubes longitudinally to cover respectively the openings in the suction pipe.

1,374,069. CONDENSER AND SEPARATOR FOR WOOD-IMPREGNATING RETORTS. JOHN H. DUNSTAN and ROBERT A. DAVIS, Slidell, La. Filed Oct. 13, 1919. Serial No. 330,511. 4 Claims. (Cl. 183—22.)

1. Means for creating a high and quick vacuum in a wood impregnating retort, comprising a wood impregnating retort, a barometric condenser connected therewith, a barometric separator, a pipe from the condenser discharging into the side of the separator, a pipe constantly leading directly from the top of the separator to a vacuum pump, a hot well, and a discharge pipe leading downward from said separator having its extremity submerged in said hot well, whereby said separator may constantly discharge while under a vacuum.



1,374,070. DESK. ROBERT B. ELLEDGE, Tampa, Fla. Filed Nov. 22, 1920. Serial No. 425,820. 2 Claims. (Cl. 45—57.)

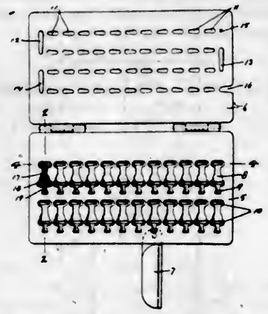


1. In combination with a support having apertures on both sides thereof, of a removable desk therefor, comprising a plate having rolled edges and ends, reinforcing rods therein, the rods in the ends extending above and below the plate and having their lower ends bent angularly to provide hooks that enter the apertures on one side of the support, the upper ends of the said rods being rounded and extended over the rear end of the plate and having their lower portions bent outwardly and from thence bent inwardly to provide hooks which enter the apertures on the opposite side of the support.

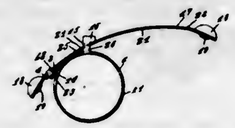
1,374,071. HOOK AND EYE CARDING DEVICE. HENRY A. FRANCIS, Niagara Falls, N. Y. Filed Feb. 18, 1920. Serial No. 359,549. 8 Claims. (Cl. 112—107.)

4. A hook and eye carding device characterized by having a base and a hinged cover, the base being formed with a series of recesses for holding hooks and eyes, the base being also formed with a series of longitudinal tapered slots, the cover being formed with a series of longitudinal tapered slots in lapped relation to the slots of the base.

8. A hook and eye carding device characterized by having a base and a hinged cover, the base being formed with a plurality of series of recesses for holding hooks and eyes, the base being also formed with a plurality of series of longitudinal slots, the cover being formed with a plurality of series of longitudinal slots in lapped relation to the slots of the base, the cover being also formed with lateral slots connecting each adjacent series of longitudinal slots, with an aperture adjacent the first slot of the series and also with an opening into its edge adjacent the last slot of the series.

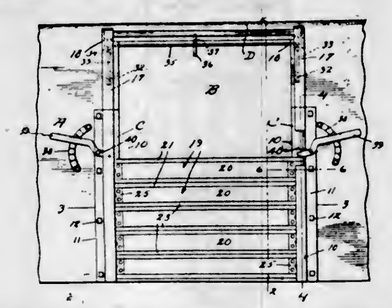


1,374,072. TIMER-BRUSH. CHARLES E. GIBBS, Manhattan, Kans. Filed Aug. 13, 1920. Serial No. 403,338. 2 Claims. (Cl. 200—26.)



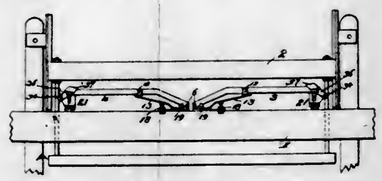
1. In a device of the class described, a collar provided with an outstanding tongue and with an outstanding finger; a spring brush; and a securing device connecting the brush with the tongue, the finger being engaged with the brush, the brush having openings adjacent to each end, for the reception of the securing device and the finger, to provide for an end for end reversal of the brush.

1,374,073. GRAIN-CAR DOOR. THEODORE GIBSON, Tulsa, Okla. Filed July 20, 1918. Serial No. 245,923. 3 Claims. (Cl. 20—32.)



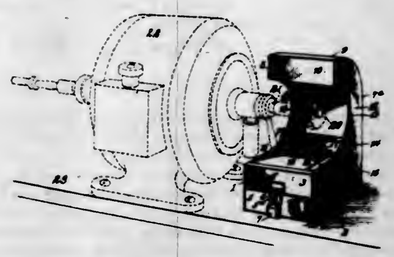
2. A grain car door comprising guides secured upon opposite sides of the doorway in a grain car, a door structure slidably mounted within said guides, and means for locking said door structure in its locked position comprising a lever pivoted upon each guide and having a nose portion extending through a vertical slot in the guide and engageable with the top edge of the door structure, and a segment secured upon the car wall adjacent each guide in position to be moved over by said lever, said segment having its outer face provided with ratchet lugs selectively engageable by the lever.

1,374,074. TEMPLE-ROLL BRACKET. JOSEPH L. GILLEBAN, Plainfield, Conn. Filed Feb. 9, 1920. Serial No. 357,135. 5 Claims. (Cl. 139—36.)



1. In a loom, the combination with a support, of a movable temple rod carried by said support, an outer bracket and catch device contiguous to said rod, said device comprising a plate and a pivoted catch mounted on said plate, said catch provided with means engaging and holding a portion of the temple rod, and said catch provided with means for limiting its movement upon the plate and thereby limiting the movement of the temple rod in one direction.

1,374,075. RECEPTACLE AND SEPARATOR FOR PARTICLES OF GOLD AND OTHER PRECIOUS METALS. ROBERT C. GRAHAM, Chattanooga, Tenn., assignor of one-half to David Stokely Etheridge, Chattanooga, Tenn. Filed Apr. 18, 1919. Serial No. 291,091. 5 Claims. (Cl. 32—5.)



1. A device for the purpose described comprising a closed receptacle provided at its top with a hopper, said hopper comprising four downwardly converging walls of relatively easy descent leading to a narrow elongated opening for the receptacle, said opening being of such width as to allow only particles of dust-like fineness to pass, and a hood rising from the receptacle over the hopper and spaced from and overhanging the opening for a portion of its length, with one side of the hood open to admit a polishing or grinding tool, whereby particles removed in the act of polishing or grinding are caught by the hood and directed into the hopper.

1,374,076. PROCESS OF MAKING STORAGE-BATTERY PLATES. WILLIAM H. GRIMDITCH, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 24, 1920. Serial No. 398,696. 7 Claims. (Cl. 204—29.)

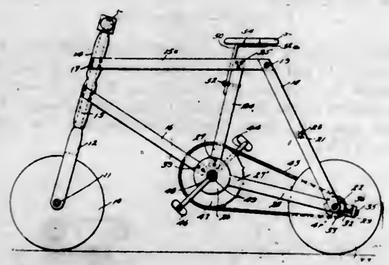
3. The method which consists in determining the temperature necessary in a given quantity of a given ammonium sulfate solution to produce with a given weight of lead oxid containing red lead, a mixture having the plasticity required for properly pasting a battery grid; mixing the given quantity of said solution at the determined temperature with the given quantity of the lead oxid; and applying the resulting paste to a battery grid.

1,374,077. SWIMMING DEVICE. OTTO GRUNDMANN, Jersey City, N. J. Filed Oct. 1, 1920. Serial No. 414,062. 2 Claims. (Cl. 9—21.)



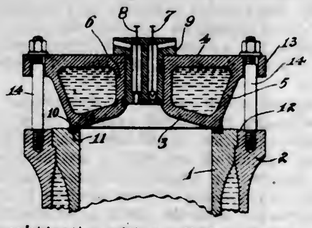
1. A swimming device, comprising a rigid blade having at its rear a recess or mouth to engage around the lower part of the leg of the swimmer, rigid members projecting downwardly from said blade and means adapted to be fixed to a shoe and to engage said members so as to hold the said blade in position.

1,374,078. BICYCLE. OTTO J. HENNEBAUL, New York, N. Y. Filed Jan. 8, 1920. Serial No. 350,128. 1 Claim. (Cl. 208—153.)



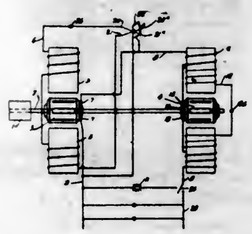
A frame for bicycles comprising a head, a wheel supporting fork rotatably mounted in said head, a frame member projecting rearwardly from said head in a horizontal plane and rigidly attached thereto, a second frame member projecting rearwardly and downwardly from said head and rigidly attached at its forward end to the head, a crank-hanging element, a brace depending from the rearwardly constructed horizontal frame member, said rearwardly and downwardly extending frame member and said depending brace forming the support for the crank hanging element, a forked frame extending rearwardly from the crank hanging element and having elongated slots to provide for the mounting of a rear wheel, and a downwardly projected brace extending from the rear end of the horizontal frame member to a point adjacent the rear end of the forked frame member, each of said first and second mentioned frame members comprising two elements arranged in spaced parallel relation.

1,374,079. CYLINDER-HEAD. WILHELM HEFTI, Wülflingen, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 26, 1919. Serial No. 279,380. 10 Claims. (Cl. 123—173.)



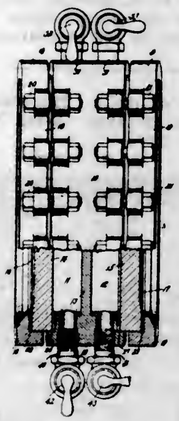
1. The combination with a cylinder, of a water-jacketed head structure symmetrically formed about a central space or cavity which accommodates all the cylinder-head valve mechanism, the inner head wall making a joint against a transverse surface of the cylinder and being devoid of peripheral metal outside the joint capable of developing thermal strains in said structure.

1,374,080. ELECTRIC-CURRENT GENERATOR FOR ARC-CIRCUITS. JOSEPH A. HOLIFIELD, Mobile, Ala. Filed Feb. 17, 1920. Serial No. 359,418. 8 Claims. (Cl. 171—312.)



1. The hereindescribed current generating apparatus for arcing circuits, which comprises a motor and a generator driven synchronously and at a substantially constant speed, the fields of the motor and the arc being in series with the armatures of both generator and motor, and the fields of the generator being in shunt to its armature, substantially as described.

1,374,081. DUPLEX BOILER-GAGE. CHARLES HANLEY JOHNSON and WILLIAM RUSSELL JOHNSON, Jersey City, N. J. Filed July 1, 1920. Serial No. 393,258. 3 Claims. (Cl. 73—54.)



1. A duplex boiler gage, comprising a body provided with two compartments having a partition in common and having diaphanous side plates and covers holding the plates in position, and independent upper and lower valved gage connections at the upper and lower ends of the said compartments.

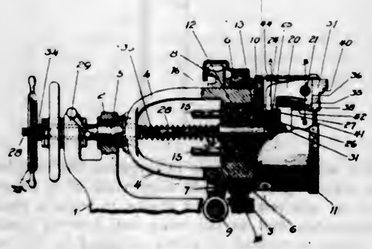
1,374,082. FLOORING. SAMUEL HEDGES, Los Angeles, Calif. Filed May 20, 1918. Serial No. 235,552. 3 Claims. (Cl. 20—8.)

1. As a new manufacture, flooring boards having a tongue at one side converging outwardly, and a groove at the opposite side converging inwardly, the groove being of greater depth than the tongue, one of the lower edges



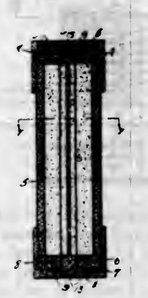
of the board being cut away to provide a clearance between adjacent edges of the boards below the tongue and groove connection when the boards are assembled.

1,374,083. SECOND-OPERATION CHUCK. HENRY C. HOOK, Worcester, Mass., assignor, by mesne assignments, to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 20, 1918. Serial No. 229,818. 5 Claims. (Cl. 279—108.)



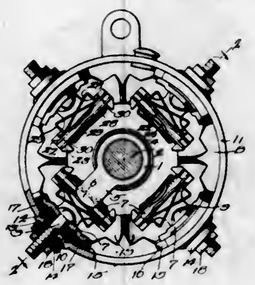
1. In a precision chuck, a casing, pivoted arms therein, work-holding jaw members rigidly located on the outer ends of the arms and projecting beyond said casing to readily engage the work, precision operated cam mechanism coöperating with the arms to tilt the jaws and means comprising a closure for the end of said casing and coöperating therewith to exclude dust from the cam mechanism at all times.

1,374,084. ELECTRIC FUSE. RALPH JUDSON KINGSLEY, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,523. 3 Claims. (Cl. 200—125.)



1. In an electric fuse, a plurality of fusible elements, a divided mounting on each end of the fuse adapted to maintain one of the fusible elements normally active, said divided mountings providing circuit-completing means for the fusible elements and having an opening for the reception of a plug, whereby the circuit may be completed between the divided parts of the mounting by the plug for selectively rendering one or more of the elements active singly or simultaneously.

1,374,085. SWITCHING DEVICE. CHARLES L. LILLEBERG, Chicago, Ill. Filed July 25, 1919. Serial No. 313,295. 16 Claims. (Cl. 200—24.)



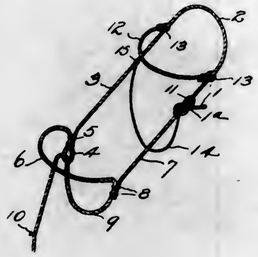
1. An electrical switching device including relatively rotatable contacting members each in the form of an arm having a base portion and a contacting portion angular to the base portion, said contacting portions being in the circle of rotation of the contacting portion of the rotatable contacting member, the contacting portion upon each contacting member extending longitudinally of the axis of rotation toward the base portion of the other contacting member, the base portions of said contacting members being without the plane of rotation of the contacting portion of the rotatable contacting member at the circle of rotation of this contacting portion whereby said base portions are not engaged by said contacting portions.

1,374,086. SWITCHING DEVICE. CHARLES L. LILLEBERG, Chicago, Ill. Filed July 25, 1919. Serial No. 313,296. 6 Claims. (Cl. 200—24.)



1. An electrical switching device including relatively rotatable contacting members each in the form of an arm having a base portion and a contacting portion angular to the base portion, said contacting portions being in the circle of rotation of the contacting portion of the rotatable contacting member, the contacting portion upon each contacting member extending longitudinally of the axis of rotation toward the base portion of the other contacting member, the base portions of said contacting members being without the plane of rotation of the contacting portion of the rotatable contacting member at the circle of rotation of this contacting portion whereby said base portions are not engaged by said contacting portions, the contacting portion upon one of said contacting members being movable with respect to the base of this member in a plane that is transverse to the axis of rotation; and a spring yieldingly holding this contacting portion in relation to its base.

1,374,087. ROPE SHIPPING-HALTER. CHARLES N. McCLINTOCK, Elwood, Ind., assignor to H. M. Manufacturing Company, Elwood, Ind., a Corporation of Indiana. Filed Dec. 15, 1919. Serial No. 344,968. 4 Claims. (Cl. 54—24.)



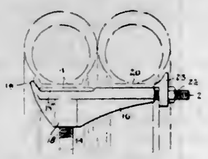
1. In a halter, a continuous rope forming one of the cheek straps, the head stall and an adjustable nose loop, a separate rope secured to the nose loop and constituting the other cheek strap and provided with an eye for receiving the free end of the continuous rope which completes the head stall, a brow band adjustably attached to the head stall portion of the continuous rope, and a throat latch permanently secured to the cheek straps.

1,374,088. WATER-BOTTLE. WILLIAM H. MILLER, Canton, Ohio. Filed Apr. 19, 1920. Serial No. 374,937. 2 Claims. (Cl. 128—258.)



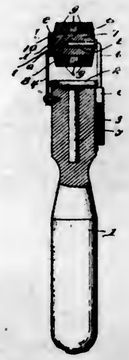
1. A water bottle composed of a flexible rubber wall having a plurality of parallel partition walls with their edges attached to the inner surface of the bottle wall, the said parallel walls being thicker than the bottle wall for the purpose of holding the side walls of the bottle separated.

1,374,089. TIRE-HOLDER. ROSCOE C. MONTGOMERY, Brooklyn, N. Y., assignor of one-half to John R. Lettenberger, Jr., Woodhaven, N. Y. Filed Nov. 8, 1919. Serial No. 336,680. 2 Claims. (Cl. 224—29.)



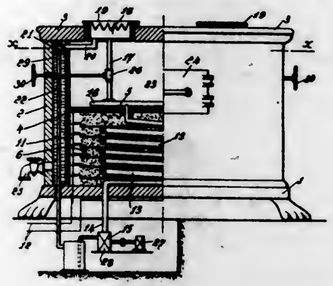
1. A tire holder comprising a plurality of radiating arms radially adjustable, a foot on the outer end of each of said arms formed with a depression adapted to receive the rim of a tire holder, an upstanding flange at one end, and threaded projection at the opposite end; a clamping wedge loosely mounted on said threaded projection, and a nut screwed on to said threaded projection for moving the clamping wedge toward said flange.

1,374,090. ROLLING STAMP. CHIHIRO NAKAIZUMI, Tokyo, Japan. Filed Sept. 4, 1919. Serial No. 321,733. 3 Claims. (Cl. 101—334.)



1. In a stamp of the type referred to, the combination with a stamp body rotatably supported, of a supporting rod bent at one end at right angles to form a shaft for the stamp-body and at the other end bearing against a spiral spring contained in a box attached to the handle, an ear secured to or made integral with the stamp body and provided with a concavity in which a ridge or high portion is obliquely arranged, and a supporting spring formed at its extremity with a hooked portion normally engaging the uppermost inner edge of the said concavity.

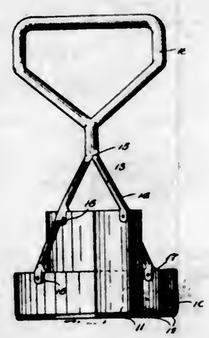
1,374,091. DEVICE FOR HEATING BY ELECTRICITY. ANTONANGELO NEGROMANTI, Milan, Italy. Filed Oct. 4, 1920. Serial No. 414,647. 1 Claim. (Cl. 219—20.)



A device for heating by electricity comprising electrical heaters, a mass of heat accumulating material to store the heat produced by said heaters, a circulating pipe containing a liquid with high boiling point, said pipe having a spiral section embedded in said accumulating material, a pump inserted in said circulating pipe, branches in said circulating pipe to convey the liquid to receptacle for which the heat is intended, and valves to regulate the flow of heated liquid from and to said receptacles.

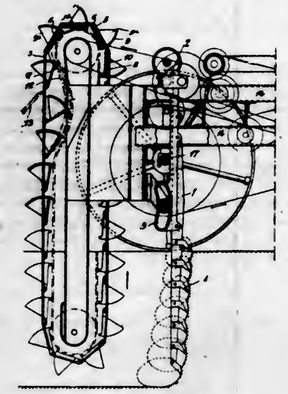
1,374,092. FOOD-CHOPPER. ELMER C. NORCROSS, Pemberton, N. J. Filed Feb. 12, 1921. Serial No. 444,560. 1 Claim. (Cl. 146—7.)

A food chopper comprising concentrically arranged cutters having their cutting edges disposed in the same transverse plane, the opposite end of the inner cutter being extended above the outer cutter, a cruciform head piece



having its arms relatively inclined and connected at their pointed end, means for securing the cutters to the arms and a handle connected to the pointed end of said arms.

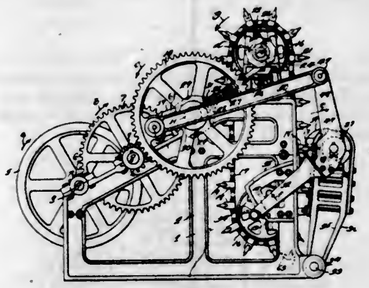
1,374,093. DITCH-DIGGING MACHINE. KRISTOFFER JENSEN NORDBY, Lier, Norway. Filed Jan. 6, 1920. Serial No. 349,796. 2 Claims. (Cl. 37—11.)



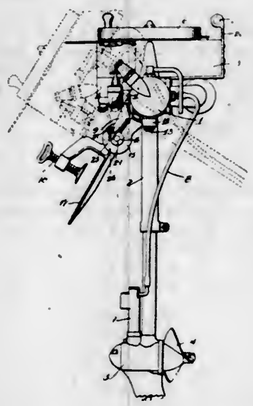
1. An elevator for excavators and the like, comprising an endless carrier consisting of a plurality of articulated flat plates each having a transverse slot and longitudinal slots formed therein, and a pair of connecting eyes on opposite ends, the eyes on one end of each plate adapted to lie between the eyes on the opposite end of an adjoining plate, a bucket having a connecting sleeve on one end adapted to fit between both pairs of eyes of adjoining plates, a pin passing through said eyes and sleeve forming a hinge connection therefor, and an end and sides formed on said bucket adapted to normally extend through the slots in the plates.

1,374,094. DETACHABLE-PLOW-EDGE-BENDING MACHINE. PETER AUGUIST NORDQUIST, Ogden, Utah, assignor to Detachable Plow Share Edge Manufacturing Company, Ogden, Utah, a Corporation. Filed Apr. 14, 1920. Serial No. 373,776. 6 Claims. (Cl. 153—20.)

1. A metal bending machine comprising a frame, an endless chain vertically movable in said frame, dies carried by said endless chain, a pivoted jaw pivoted to the frame, said jaw having a die member, means for intermittently moving the chain carried dies and means for moving the pivoted jaw inwardly during a bending operation.

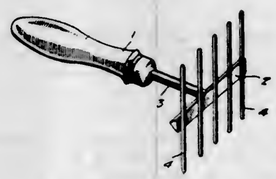


1,374,095. OUTBOARD-MOTOR. RICHARD B. OWEN, Washington, D. C. Filed Feb. 10, 1916. Serial No. 77,504. 10 Claims. (Cl. 115—17.)



1. A motor, a boat bracket, a motor bracket connected with said boat bracket to mount the motor to have swinging movement, and spring held means connected between said brackets to hold the motor in the desired adjustment.

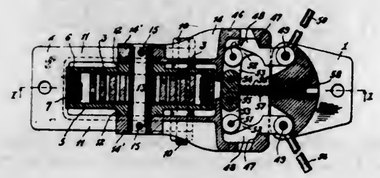
1,374,096. CULINARY IMPLEMENT. WILLIAM H. PALMER, Yale, Mich. Filed Aug. 4, 1919. Serial No. 315,192. 1 Claim. (Cl. 259—144.)



A culinary implement of the class described comprising a handle, a carrier bar triangular in cross section connected with said handle, a shank forming the connection between said handle and carrier bar, fingers being car-

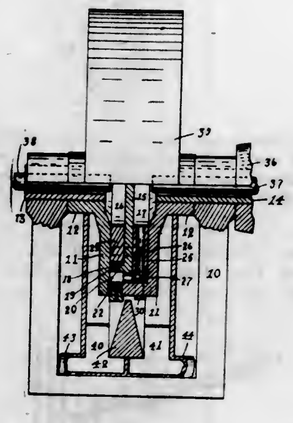
ried by said bar, said shank being connected with the apex of said bar, said fingers being circular in cross section and slightly rounded at their extremities, a flange encircling said handle at its lower end thereof.

1,374,097. DRAWBAR. FRANK A. PECK and JAMES E. A. MOORE, Cleveland, Ohio. Original application filed Nov. 25, 1918, Serial No. 264,048. Divided and this application filed June 24, 1920. Serial No. 391,457. 4 Claims. (Cl. 213—67.)



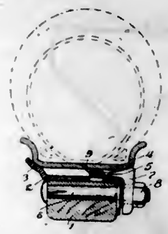
1. A draw-bar comprising a pair of coupling heads; a torsion-spring whose ends are respectively secured relatively to said heads; a movable member intermediate said heads and adapted to be moved amounts proportioned to the stress to which said spring is subjected; movable jaws secured relatively to one of said heads; jaw guides, said jaws and guides interlocking said movable member and said last-mentioned head; means for maintaining said jaws normally effective; and means supported upon said movable member and adapted, upon a predetermined movement of the same, to move said jaws to release the same from the guides.

1,374,098. METHOD OF AND MACHINE FOR CENTRIFUGAL SEPARATION. WILBUR H. PECK, Los Angeles, Calif. Filed Nov. 14, 1919. Serial No. 338,064. 5 Claims. (Cl. 233—15.)



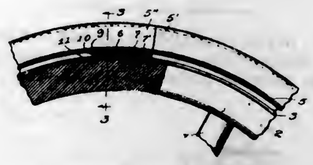
4. A method for separating matter comprising; first causing stratification of the matter to be separated by centrifugal force, then discharging the heavier matter through ports, the lighter matter passing to other ports, and causing fluid pressure to flow through said ports against the outward flow of the heavier particles and then to flow out of the other ports with the lighter particles.

1,374,099. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed June 24, 1916. Serial No. 105,694. 6 Claims. (Cl. 301—20.)



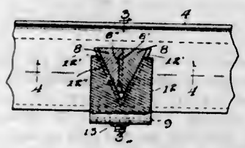
1. The combination with a wheel body and a demountable rim therefor, of wedges for locking the demountable rim on the wheel body and stops disposed in the path of the free edges of the wedges for limiting the thrust thereof.

1,374,100. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Aug. 25, 1916. Serial No. 116,855. 10 Claims. (Cl. 301—11.)



1. In a wheel structure, a demountable rim of the channel type having a cross-cut, one of the ends resulting from the cross-cut being formed with a projecting tongue and the other with a corresponding recess for receiving the tongue and enabling it to lie with its outer face flush with the main outer surface of the base of the channel, the tongue having an inwardly extending projection, and means coöperating with the projection for connecting the rim ends against circumferential separation, the projection being of sufficient length to extend inwardly beyond the inner face of the rim.

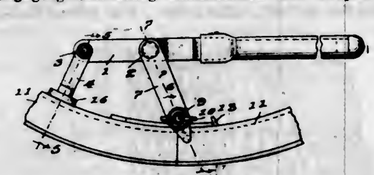
1,374,101. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Sept. 23, 1916. Serial No. 121,830. 7 Claims. (Cl. 301—15.)



2. In a wheel structure, the combination with a wheel body, of a cross cut demountable rim therefor, the end portions of the demountable rim having inwardly extending projections and a bifurcated plate carried by the wheel body and removably extending between the wheel body and rim and adapted to engage said projections for retaining the ends of the rim in operative relation.

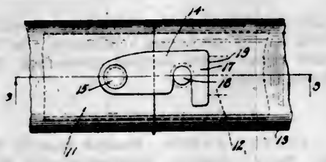
1,374,102. RIM-OPERATING TOOL. LOUIS H. PERLMAN, New York, N. Y. Filed Dec. 4, 1916. Serial No. 135,071. 5 Claims. (Cl. 157—1.)

1. In an operating tool for manipulating a cross-cut demountable rim, a fulcrum post comprising a bar having a pivot-receiving end, and a rim-engaging end, the rim-engaging end being dimensioned and shaped to fit



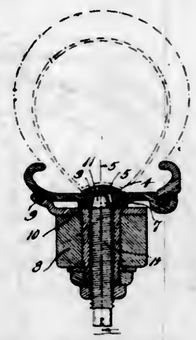
detachably within a locking socket, and means at the rim-engaging end for detachably and rigidly locking said end in a socket.

1,374,103. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Feb. 23, 1917. Serial No. 150,488. 8 Claims. (Cl. 301—11.)



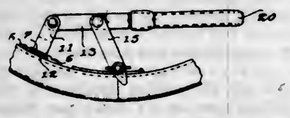
1. The combination of a wheel body having a felly band provided with a peripheral projection, a cross-cut demountable rim for the wheel body, and a hook pivotally connected to one end of the rim and engaging the opposite end thereof to hold the ends together, said projection of the wheel body being adapted to engage the bill of the hook to hold the same from spreading and to retain the hook in interlocking position.

1,374,104. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Aug. 16, 1917. Serial No. 186,522. 12 Claims. (Cl. 301—21.)



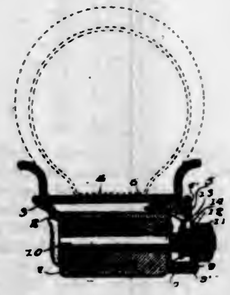
8. The combination, with a demountable rim, of a radially recessed laterally-expansible shank engaging the rim and adapted to receive rim locking means in its recess.

1,374,105. DEMOUNTABLE RIM. LOUIS H. PERLMAN, New York, N. Y. Filed Aug. 16, 1917. Serial No. 186,525. 3 Claims. (Cl. 301—34.)



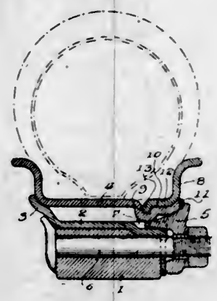
1. The combination of a cross-cut demountable rim and a tool-receiving plate connected with the rim and having a slot with lateral enlargements adapted to accommodate the passage of a post of greater cross section than the width of the main portion of the slot, while leaving outstanding portions of the slot, a portion of the plate being spaced from the rim.

1,374,106. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Aug. 16, 1917. Serial No. 186,526. 9 Claims. (Cl. 301—20.)



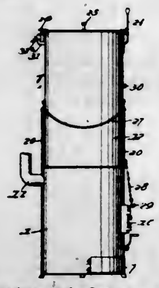
1. A locking wedge member for locking a demountable rim to a wheel body comprising a wedge plate adapted to extend along one face of the wheel body and having a wedging projection extending axially from the plate, the projection tapering on a substantially straight line at its under surface and tapering with a compound curve at its upper surface, the wedging projection and plate being connected at the under side of the terminals of the wedging projection by fillets having inclined edges continuing the incline of the under surface of the wedging projection at a more abrupt angle than the incline of the under surface of the wedging projection.

1,374,107. WHEEL. LOUIS H. PERLMAN, New York, N. Y. Filed Aug. 16, 1917. Serial No. 186,530. 2 Claims. (Cl. 301—20.)



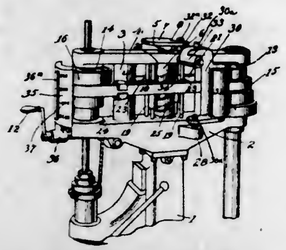
1. In a wheel, the combination of a felly, a fixed rim thereon having a stop flange at one edge, a demountable rim adapted to be sustained with one of its edges in engagement with the stop flange, the demountable rim having at that edge remote from said stop flange a flange-ring seat producing a radially inward projection, and wedge locking means for sustaining the edge portion of the demountable rim having the projection, said wedge locking means being arranged to engage the demountable rim and to extend beyond its point of engagement with the rim to engage the projection, the said projection being disposed to center the demountable rim on the fixed rim, and the fixed rim being formed with depressions for receiving the wedge locking means.

1,374,108. FOOD-BOILER. ROBERT PFAHL, Venturia, N. D., assignor of one-half to Rudolph Dahlke, Ashley, N. D. Filed June 11, 1918. Serial No. 239,465. 1 Claim. (Cl. 126—349.)



A food boiling apparatus embodying a cylindrical stove body having means for carrying a fire therein, the said body being open at its upper end and formed at diametrically opposite points thereon with standards, a boiler corresponding in shape to the stove portion and provided with trunnions on diametrically opposite sides which engage in recesses formed in the upper ends of said standards, the bottom of the boiler being disposed normally through the open top of the stove portion, a removable closure for the upper end of the boiler, a tilting handle carried by the boiler at its upper end, and a chain connected to one of the standards and carrying a hook at its free end engageable with a stud carried on one side of the boiler and above the plane of the aforesaid stud, whereby the boiler may be shifted into an inclined position for the purpose herein specified.

1,374,109. CHANGE-OF-SPEED MECHANISM. HENRY C. PIERLE, Cincinnati, Ohio, assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 14, 1919. Serial No. 310,638. 12 Claims. (Cl. 64—4.)



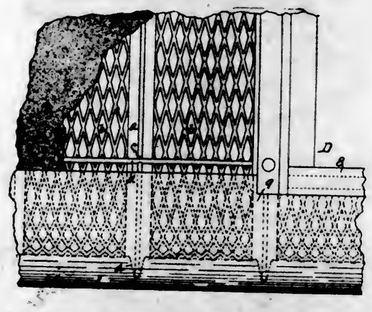
1. In a device of the character described, the combination with a pair of reverse cone pulleys, of a belt passing around said pulleys, a belt shifter for engaging and moving said belt over said pulleys, a resilient belt tightener adapted to bear on the belt to maintain tension thereof, and means in connection with the belt shifter for relieving the tightener from tensioning position, for the purpose described.

1,374,110. WELDING OF DIFFERENT METALS TO FORM A COMPOSITE INGOT. ALOIS GERARD CORNEILLE PITTEVIL, London, England. Filed Oct. 14, 1918. Serial No. 258,013. 1 Claim. (Cl. 78—93.)



A process of welding a ferrous to a nonferrous metal, in which a thin sheet of a metal adapted to combine with a constituent of said non-ferrous metal is interposed between the metals to be welded together.

1,374,111. CONCRETE CAR CONSTRUCTION. EDWARD JENNESS PUTNAM, Atlanta, Ga. Filed Nov. 14, 1918. Serial No. 262,497. 12 Claims. (Cl. 105—405.)

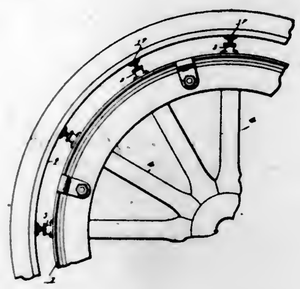


1. A fabricated concrete car structure comprising a metallic form having projecting reinforcing ribs and expanded small metal fabric sections connecting the ribs, and a concrete envelop.

1,374,112. COATED PAPER. HAROLD ROBERT RAFSKY, Lawrence, Mass. Original application filed Mar. 29, 1916, Serial No. 87,624. Divided and this application filed Aug. 7, 1917, Serial No. 184,825. Renewed Aug. 19, 1920. Serial No. 404,714. 2 Claims. (Cl. 91—68.)

2. A paper comprising a paper "body stock" having its surface coated with a pigment produced by the interaction of a slaked lime containing magnesia and sodium carbonate in an aqueous medium, and an adhesive.

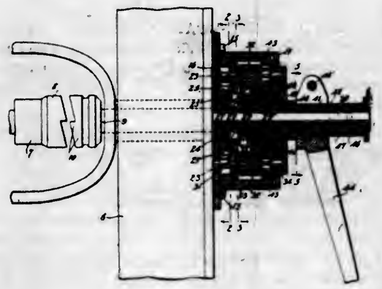
1,374,113. RESILIENT AND DEMOUNTABLE WHEEL-RIM. BENJAMIN A. RAYNOR, Muskogee, Okla. Filed Nov. 21, 1919. Serial No. 339,535. 1 Claim. (Cl. 152—32.)



A wheel rim comprising an inner metallic annulus, an outer metallic annulus surrounding and spaced from the inner annulus, and radially-disposed cushioning units interposed between the inner and outer annuli and separated by intervening spaces; each of the said units being made up of a radial socket member having base flanges connected to the inner annulus and also having an interior thread, a cap member having a central radial aperture and also having a reduced and threaded tubular portion arranged in and connected by the threads to the socket member, a bearing member connected to the inner side of the outer annulus and having a transverse aperture of circular form in cross section and also having a longitudinal slot at right angles to said aperture, a plunger rod extending loosely through the central aperture in the cap and having an enlargement at its inner end housed in the tubular portion of the cap and also having a T-head of circular form in cross section journaled in the aperture

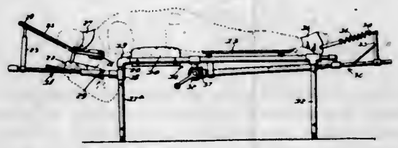
of the bearing member, a spring interposed between the enlargement of the plunger and the base of the socket member, and a spring surrounding the plunger rod and interposed between said enlargement and the outer end of the cap member; said springs housed in the tubular portion of the cap member.

1,374,114. STARTING-CRANK FOR MOTORS. FRANK FULTON REDDING, New York, N. Y. Filed Sept. 10, 1919. Serial No. 324,753. 3 Claims. (Cl. 123—185.)



1. A starting device comprising a shaft adapted to be directly connected to the crank shaft of the motor to be started, a sleeve loosely mounted on said shaft, a plurality of members carried by said shaft and adapted for driving interengagement with each other, one of said members being keyed to the shaft and the other free to rotate thereabout, means operated by the sleeve for driving the member keyed to the shaft when said sleeve is rotated in one direction, and means for preventing movement of the other of said members upon movement of the sleeve in the opposite direction.

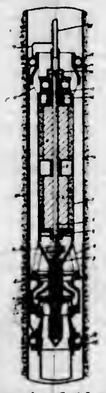
1,374,115. TENSION-TABLE. JACOB F. ROEMER, Waukegan, Ill. Filed July 23, 1918. Serial No. 246,272. 2 Claims. (Cl. 128—71.)



2. An apparatus for the purpose indicated having a main body supporting frame, body receiving rests carried thereby, a head frame supported by the main frame and carrying a head rest, a head harness carried by the head frame, a foot extension having a threaded shank, a rotatably mounted tubular member carried by the main frame and surrounding and threadingly engaging the said shank, and a foot harness carried by the said foot extension.

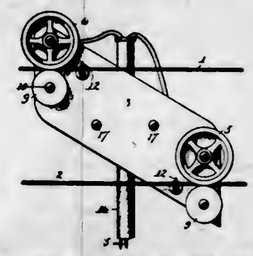
1,374,116. DIRECT-DRIVEN DEEP-WELL PUMP. ROBERT SCHORR, San Francisco, Calif. Filed May 26, 1919. Serial No. 299,752. 17 Claims. (Cl. 253—199.)

1. In combination with a well casing, an adjustably mounted pumping unit consisting of a vertical motor in a water-tight housing and a rotary pump directly connected to the motor-shaft, said well casing forming the



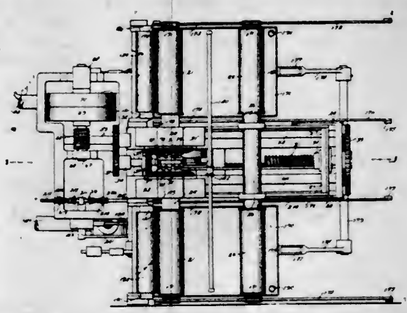
discharge conduit for the fluid pumped, the fluid pumped surrounding said motor in the water-tight housing.

1,374,117. TROLLEY CONSTRUCTION FOR BARBERS' ELECTRICAL EQUIPMENT. JOSEPH ASA SHELTON, Henderson, Ky. Filed Aug. 14, 1919. Serial No. 317,462. 7 Claims. (Cl. 191—536.)



1. In a trolley construction, superposed spaced electric conductors together constituting a track, and a carriage mounted on the conductors and comprising a rigid body member disposed diagonally of the conductors with grooved trolley wheels at opposite ends, each wheel being above and engaging a respective one of the conductors and each grooved wheel having a retaining wheel associated therewith in underlying relation to the respective conductor.

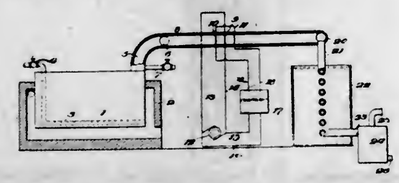
1,374,118. MERCERIZING-MACHINE. JACOB SPITZER, New York, N. Y., assignor to Universal Mercerizing & Dyeing Co., Inc., a Corporation of New York. Filed Feb. 12, 1920. Serial No. 358,025. 3 Claims. (Cl. 8—20.)



1. In a mercerizing machine a pair of drums adapted to support a batch of cotton yarn to be mercerized, a carriage

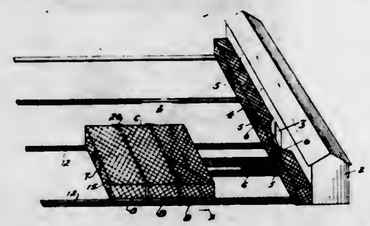
carrying one drum to move the latter toward and from the other drum, a reversing motor connected with the said carriage to intermittently reciprocate the same, starting and stopping means for the said motor and including a timer cam and mechanism controlled by the said carriage, and driving means for one of the said drums to impart a traveling motion to the yarn, the said driving means turning the said timer cam.

1,374,119. PROCESS OF CATALYSIS. ELBRIDGE W. STEVENS, Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky., a Corporation of Delaware. Filed Mar. 18, 1920. Serial No. 366,840. 9 Claims. (Cl. 204—31.)



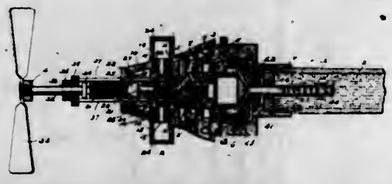
1. In the catalysis of gaseous or vaporous carbon compounds by hot metal catalysts maintained at temperatures and under conditions where carbon would normally deposit, the process which comprises sparking the surface of such catalyst during its period of operation.

1,374,120. POULTRY-RUN. FRITZ OSCAR STROMBORG, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,157. 5 Claims. (Cl. 119—21.)



1. A poultry run apparatus including a poultry house, tracks extending from said poultry house, a cage composed of a plurality of sections, wheels upon which said sections are mounted to travel on said tracks, the frames of said sections having notches in the upper part thereof, T-shaped bars formed with down turned ends on their cross members adapted to fit in notches in adjacent frames to hold adjacent sections together, the lower end of said bars being bent under said tracks, said poultry house having an outlet, said cage having an inlet, and a guide passage connecting said outlet and said inlet.

1,374,121. COMBINATION ALL-WAYS IMPACT AND TIME FUSE. JOHN H. SWAN, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed July 25, 1919. Serial No. 313,370. 3 Claims. (Cl. 102—2.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

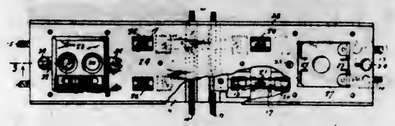


1. In a drop bomb, a firing mechanism comprising a firing pin, safety plungers coöperating therewith, means for locking the safety member in unarmed position, a shaft, and propeller blades secured to said shaft for automatically releasing said safety plungers while the bomb is in flight.

1,374,122. PROCESS FOR DYEING AND WATER-PROOFING. ALFRED O. TATE, New York, N. Y. Filed Apr. 20, 1920. Serial No. 375,348. 2 Claims. (Cl. 204—1.)

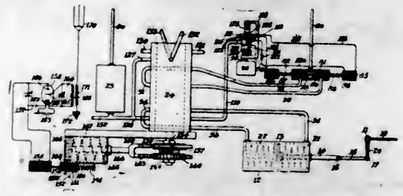
2. The process for dyeing and waterproofing fabric which consists in impregnating the fabric with the ordinary aniliu black dye-stuffs, aging the fabric so treated, impregnating the fabric with sodium palmitate and aluminum salt and subjecting the fabric to an electric current while passing between electrodes, one of which is aluminum.

1,374,123. PANEL-BOARD FITTING. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 12, 1917. Serial No. 206,792. 5 Claims. (Cl. 175—208.)



1. A panel board fitting having a base chambered to receive a removable switch mechanism, a cover plate substantially coextensive with said base and apertured in register with said chamber in the base, a cap plate overlying said aperture, said cap plate being provided with slotted end lugs, and screws clamping said end lugs to the cover plate, one of said screws being longitudinally displaceable in the cover plate to free the coöperating end lug of the cap plate without detaching said screw from the cover plate.

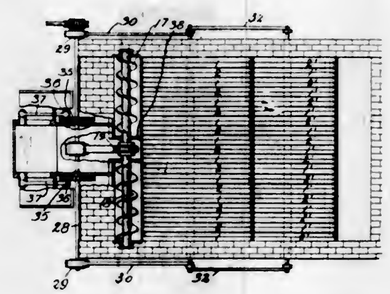
1,374,124. SYSTEM FOR THE CONTROL OF DIRIGIBLE DEVICES FROM A DISTANCE. ALBERT D. TRENOR, New York, N. Y., assignor to John Hays Hammond, Jr., Gloucester, Mass. Filed June 3, 1918, Serial No. 237,921. Renewed June 24, 1920. Serial No. 391,552. 11 Claims. (Cl. 114—21.)



1. The combination with a plurality of independently operative fluid-actuated devices, of a source of pressure fluid, and means including a single rotatable valve member operative in response to an impulse of energy to cause the distribution of pressure fluid from said source to one of said devices to actuate the same and operative upon the cessation of said impulse to cause the distribution of pressure fluid from said source to another of said devices to operate the same.

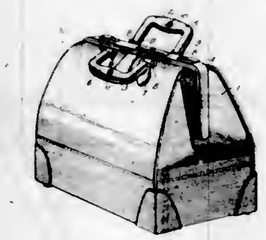
1,374,125. STOKER-FURNACE. JUDSON E. WAGONER, Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,118. 6 Claims. (Cl. 110—47.)

1. In a stoker furnace, the combination of a series of inclined grate bars arranged adjacent to one another, some of which are movable, a retort adjacent to the upper ends of said bars and transverse to the axes of said bars, a passage located at the central portion of said retort for feeding fuel thereto, a hopper for fuel to be fed, means for feeding fuel from said hopper through said passage to said retort, a double spiral conveyer in the bottom of said



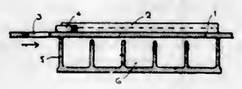
retort for distributing fuel fed through said passage to both ends of said retort, and means for actuating said double conveyer.

1,374,126. HANDBAG-HANDLE. HORACE EVERETT WALTER, Richmond, Va. Filed Oct. 12, 1920. Serial No. 416,373. 2 Claims. (Cl. 190—57.)



1. A hand bag handle comprising a pair of handle members adapted to be hingedly secured to a hand bag at opposite sides of the mouth thereof, and means for removably locking said members together when the bag is in closed position, said means comprising coacting locking devices positioned on the opposed inner faces of the handle members and registering with each other.

1,374,127. APPARATUS FOR CALIBRATING ROLLERS FOR ANTIFRICTION ROLLER-BEARINGS. ERNST HJALMAR WALODDI WEIBULL, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed July 1, 1920. Serial No. 393,395. 4 Claims. (Cl. 83—92.)

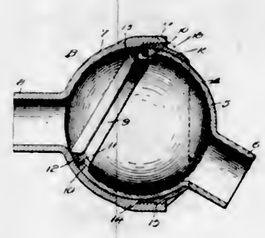


1. An apparatus for assorting disks comprising a supporting means provided with an aperture through which a disk supported by said means may pass and converging means coöperating with the other means and designed to engage the opposite sides of a disk supported by the supporting means, one of said means being movable relatively to the other means for the purpose of bringing the disk and aperture into alinement.

1,374,128. PAINT. HORACE NELSON WELLS, Hoboken, N. J. Filed Sept. 11, 1920. Serial No. 409,649. 4 Claims. (Cl. 134—46.)

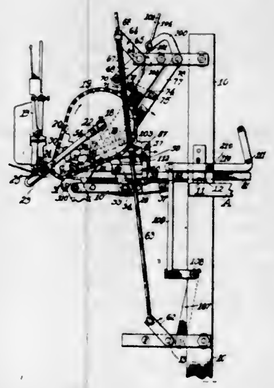
1. The herein described paint, comprising the following ingredients in substantially the proportions of soap—nine ounces, whitening—two and one-half pounds, lime—twenty-three and one-quarter pounds, salt—one and one-quarter pounds, and water—four gallons.

1,374,129. FLEXIBLE METAL JOINT. HIRAM WILSON, Mondovi, Wis. Filed Aug. 25, 1919. Serial No. 319,760½. 2 Claims. (Cl. 285—95.)



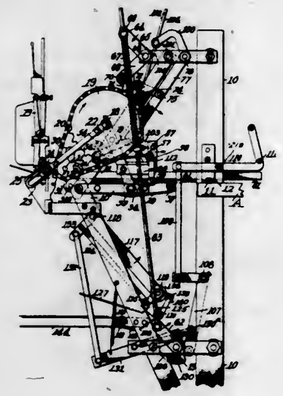
1. A universal joint of the character described comprising male and female members, each being formed with a ball-shaped end and a pipe extension, the ball-shaped end of the male member being fitted within the ball-shaped end of the female member, a retaining collar having screw-threaded engagement with the interior of the ball-shaped end of the female member and holding the ball-shaped end of the male member fitted therein, said ball-shaped end of the female member and the collar being formed with angular registering openings and adapted to receive a locking pin for securing the collar engaged with the ball-shaped end of the female member.

1,374,130. SHEET-FEEDING MACHINE. JOHN E. WOODBURY, Worcester, Mass. Original application filed Oct. 26, 1916, Serial No. 127,960. Divided and this application filed July 9, 1920. Serial No. 395,107. 25 Claims. (Cl. 271—54.)



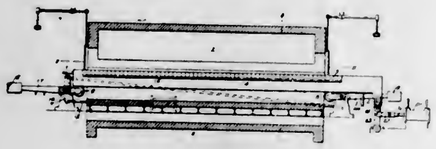
5. The combination of means for registering the sheets, means for positively gripping them at a distance from their edges and advancing the sheets, means for operating the gripping means to locate the sheets in the press as the impression is made, and stationary means for supporting the sheets until they are gripped.

1,374,131. AUTOMATIC DELIVERY FOR DIE-PRESSES. JOHN E. WOODBURY, Worcester, Mass. Filed Oct. 26, 1916, Serial No. 127,960. Renewed July 9, 1920. Serial No. 395,121. 21 Claims. (Cl. 271—82.)



21. In a sheet delivery device, the combination of an oscillatable frame, sheet supporting bars pivoted thereon, means for swinging said bars on their pivot as the frame oscillates, a pair of pivoted grippers on the frame engaging said bars, and frictional means for holding the grippers against said bars so that the turning motion of the bars tends to keep the sheets gripped and for holding the grippers open at a later time.

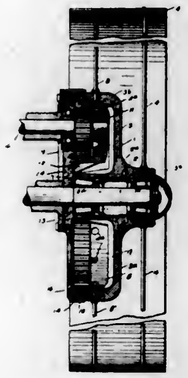
1,374,132. CONTINUOUS HEATING-FURNACE. JOHN S. WORTH, Coatesville, Pa., assignor to Worth Bros., Coatesville, Pa., a Firm. Filed Mar. 20, 1919. Serial No. 283,697. 4 Claims. (Cl. 214—18.)



1. The combination in a continuous heating furnace, of a furnace structure; a beam extending longitudinally through the furnace and projecting beyond each end thereof; a transverse shaft at each end of the furnace; an arm on the shaft; a roller carried by the arm; means for turning the two shafts in unison so as to raise the beam; a pivoted lever at one end of the shaft and connected to the beam; and means for moving said lever to reciprocate the beam so that material placed on the beam will be intermittently fed through the furnace.

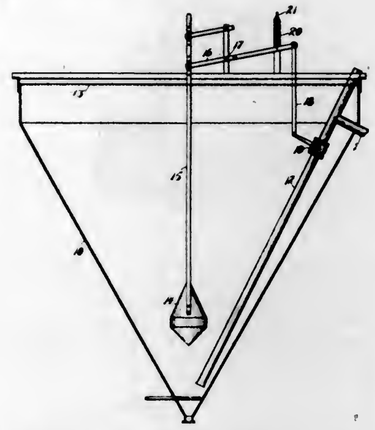
1,374,133. WHEEL-HUB. BENJAMIN C. ZUHARS and HARRY D. CLARKE, Columbus, Ohio, assignors to The Ohio Tractor Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 6, 1920. Serial No. 356,747. 3 Claims. (Cl. 301—6.)

1. A wheel hub comprising a spindle housing, a drum formed integrally with the forward end of the housing and increasing the thickness thereof and having openings to receive the outer series of spokes of a wheel, said drum extending radially and inwardly over the rear portion of the housing and having openings in its inner portion to receive the inner series of spokes of the wheel, and reinforc-



ing elements on the inner face of the drum and inner portion of the housing.

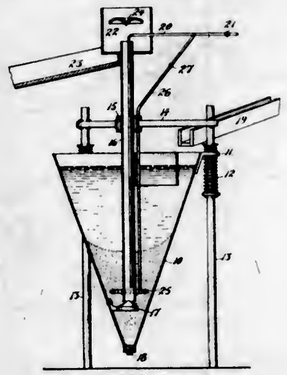
1,374,134. THICKENER, (SEWAGE TYPE.) CHARLES ALLEN, El Paso, Tex. Filed Mar. 11, 1920. Serial No. 365,081. 4 Claims. (Cl. 210—54.)



1. In a device of the character described, a vessel having an overflow rim to permit liquid and slowly settling solids to overflow while allowing the remainder of the material to accumulate in the bottom of the vessel, a discharge pipe for the accumulated material in the bottom of the vessel extending upwardly to a point near the top of the vessel, means for controlling the area of the passageway through the pipe, and means automatically responsive to variations in the density of the accumulated material in the bottom of the vessel to actuate said controlling means whereby to maintain the discharge through the pipe at an approximately constant density.

1,374,135. AUTOMATIC SEPARATOR AND EVAPORATOR. CHARLES ALLEN, El Paso, Tex. Filed June 8, 1920. Serial No. 387,482. 3 Claims. (Cl. 83—82.)

3. In a device of the character described, a vessel into which material to be separated or concentrated is fed, a vertical discharge pipe for the accumulated material in the vessel extending downwardly within the latter to a point near the bottom thereof, means to initially close the inlet end of said pipe, said means being actuated automatically to open the same when the accumulated material reaches a predetermined weight, and a fluid pressure

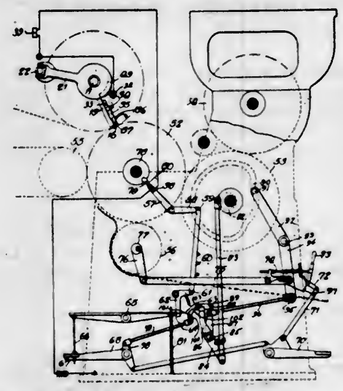


pipe opening into the discharge pipe at a point near the bottom thereof to lift the material therein and cause it to be discharged over the top of said pipe.

1,374,136. TRANSLUCID ANTISLIPPING TILE. MILTON F. BEECHER, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 3, 1918. Serial No. 248,223. 10 Claims. (Cl. 106—7.5.)

1. A safety tread comprising a translucid body containing hard, wear-resisting, anti-slipping, granular material intimately incorporated in the body by fusion.

1,374,137. SHEET-REGISTER DETECTOR. JOSEPH R. BLAINE, Chicago, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1917. Serial No. 190,473. 13 Claims. (Cl. 101—233.)

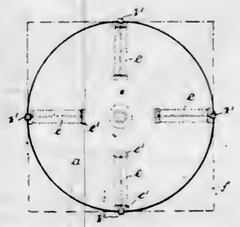


1. In a printing press, the combination with the usual sheet-register gages, of means to automatically trip the press upon failure of the sheet to register at any one of the gages, and means to indicate to the pressman the particular gage at which such failure occurs, said indicating means comprising a normally open electric circuit for each gage including an annunciator, each of said circuits arranged to be closed upon the failure of the sheet to register at its particular gage.

1,374,138. COMPOSITION OF DRIED MODIFIED CULTURED MILK POWDER TO BE USED IN COOKING AND BAKING HUMAN FOODS. ARTHUR RICHARD COULSON, San Quentin, Calif. Filed July 1, 1920. Serial No. 393,231. 1 Claim. (Cl. 99—5.)

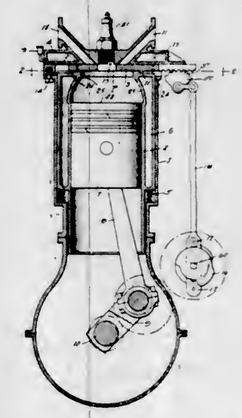
A dried modified cultured milk powder to be used in baking and cooking foods for human consumption, consisting of the solids of a modified cultured milk mixture comprising sweetened curdled skim milk, fifty (50) to eighty (80) per cent., and salted buttermilk twenty (20) to fifty (50) per cent., said solids being the residue that is left after the modified cultured milk mixture is dried.

1,374,139. REVOLVING CHESSBOARD AND THE LIKE. GEORGE LAKE TALBOT DENNISS, London, England. Filed Mar. 27, 1920. Serial No. 369,383. 6 Claims. (Cl. 46—64.)



1. A revolving chess board, comprising a supporting frame, a rotatable table on said frame adapted to rotate about a vertical axis, members mounted rotatably between the upper surface of such frame and the under surface of said table, and fastening means on said table for securing the chess board thereto, for the purposes described.

1,374,140. INTERNAL-COMBUSTION ENGINE. HERMAN DOCK, Pleasantville, N. Y., assignor to Lorenzo O. Bucklin, trustee, Little Falls, N. Y. Filed Jan. 26, 1920. Serial No. 354,187. 6 Claims. (Cl. 123—75.)



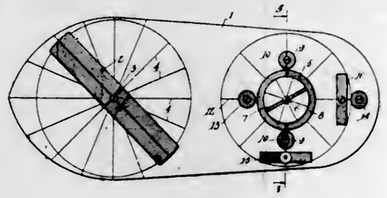
1. In an internal combustion engine, the combination of a casing having ports, a movable cylinder open at both ends and constricted at its firing end, a ported valve plate between the cylinder and casing closing the constricted end of the cylinder, means for operating said valve, a piston in said cylinder, said cylinder having on its contact face a relief groove inclosing an area less than the area of the piston.

1,374,141. PROCESS OF STERILIZING CHEESE. ELMER E. ELDREDGE, Sidney, N. Y. Filed Sept. 24, 1919. Serial No. 326,038. 6 Claims. (Cl. 99—1.)

1. In a process of sterilizing cheese, the steps which comprise mixing approximately 98% of the cheese with 2% of sodium phosphate, then heating the mass to a sterilizing temperature.

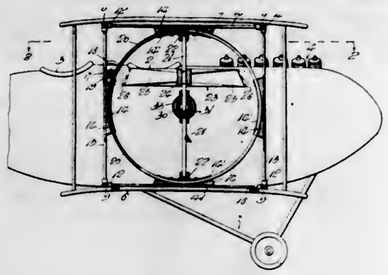
6. A sterilized cheese mass consisting substantially of 98% of cheese and 2% of sodium phosphate.

1,374,142. DEVIASCOPE. SOREN A. ELLINGS, New York, N. Y. Filed July 8, 1920. Serial No. 394,674. 4 Claims. (Cl. 35—16.)



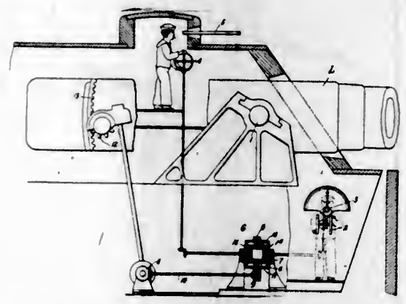
1. A device of the character stated, comprising a plate representing in plan the hull of a ship, means thereon for indicating the lines of magnetic force through a ship, and means on the plate for indicating the manner of correcting compass deviation due to such lines of indicated magnetic force.

1,374,143. AEROCYCLE. WILLIAM EVERSON, Alma, Nebr. Filed June 21, 1920. Serial No. 390,527. 8 Claims. (Cl. 244—14.)



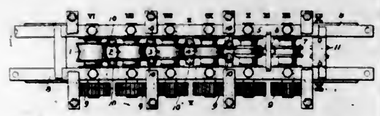
5. A propelling means for an aeroplane having a fuselage and wings, said propelling means comprising a frame for extending transversely of and beyond opposite sides of the fuselage, said frame having longitudinally extending bars and standards and cross bars connecting the longitudinally extending bars, rings positioned vertically in the frame, shoes carried by certain of the cross bars and vertically extending bars and engaging the rings to rotatably mount the rings and hold the rings against transverse movement, a rotatable shaft extending longitudinally of the frame and having gears engaging gear teeth of the rings for imparting rotary movement to the rings, propeller shafts journaled in the rings, a driving shaft rotatably mounted and extending longitudinally of the frame and having gears engaging gears carried by the propeller shaft, and propellers carried by the shafts for imparting vertical movement to an aeroplane when the propeller shafts are vertical and for imparting forward movement to the aeroplane when the propeller shafts are horizontal.

1,374,144. CONTROL MEANS FOR GUNS OR THE LIKE. STEPHEN A. FARRELL, Brooklyn, N. Y., assignor to Automatic Gun Control Company, a Corporation of New York. Filed Nov. 23, 1916. Serial No. 132,968. 1 Claim. (Cl. 89—41.)



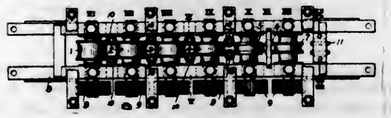
In a device of the class described, the combination with a member to be trained, of a motor for training said member, connections between the motor and the member including a tilting-box having a control element associated therewith for modifying the effect of the motor upon the member, a manually operable hand wheel, connections from the hand wheel to the control element for operating the control element, and means associated with the member and with said last mentioned connections for modifying the effect of the hand wheel upon the control element in response to the movements of the member.

1,374,145. MILL FOR COLD-ROLLING SKELP. JOHN W. FREE, Woodlawn, Pa., assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1920. Serial No. 365,009. 5 Claims. (Cl. 153—54.)



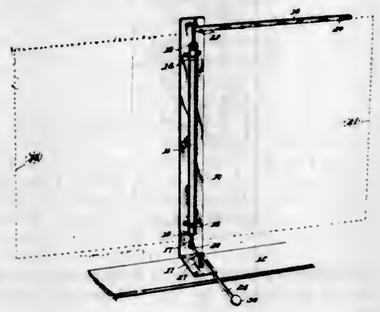
1. A skelp-bending mill wherein the shaping instrumentalities consist only and entirely of a plurality of pairs of rolls, shaped to engage the skelp upon its faces only and in such engagement to shape to a tubular blank with overlapped edges ready for lap-welding a length of skelp with scarfed edges.

1,374,146. METHOD OF BENDING SKELP. JOHN W. FREE, Woodlawn, Pa., assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 24, 1920. Serial No. 405,758. 2 Claims. (Cl. 153—32.)



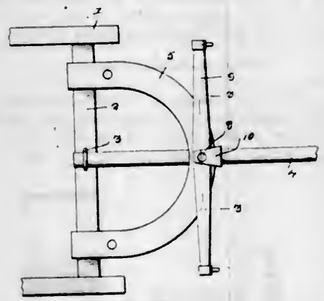
1. The method herein described of developing an unheated length of skelp into a tuoular blank with overlapped edges, which consists in, first, bending the skelp transversely into a tubular blank of uniform radius, second, by externally exerted pressure resisted only by the rigidity of the material, reducing the radius of curvature of one margin of the blank to a greater degree than the remainder, and, finally, by externally exerted pressure resisted only by the rigidity of the material, reducing the radius of curvature of the remainder of the blank.

1,374,147. SHEET-MUSIC TURNER. GLENN C. GEER, Elmira, N. Y. Filed June 18, 1919. Serial No. 305,013. 2 Claims. (Cl. 84—496.)



2. A music leaf turner of the type described comprising a mounting bracket, a tubular housing fixed to the bracket, a tensioned shaft rotatably and slidably mounted in the tubular housing, a music leaf engaging arm carried by the upper end of the shaft, a lug carried by the mounting bracket normally engaging the music leaf arm for holding the shaft under tension and a lever pivoted to the lower end of the mounting bracket with the lower end of the tensioned shaft seated on the inner end thereof whereby movement of the lever will elevate the shaft to free the music leaf carrying arm from engagement with the retaining lug.

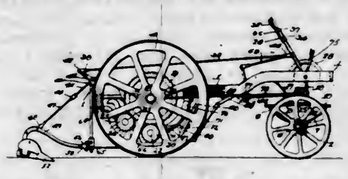
1,374,148. SELF-SUPPORTING SLED-TONGUE. LEONARD M. HELLEMS and GILBERT C. SHAFER, McClungs, W. Va. Filed Oct. 18, 1919. Serial No. 331,582. 1 Claim. (Cl. 278—24.)



In combination with a sleigh, a yoke member having its ends rigidly connected with the stationary front cross bar thereof, said yoke member having a centrally arranged socket and a hole passing vertically through said socketed part, a loop member on the cross bar, a tongue engaging said socket and loop member, a double tree, a bracket carried by the tongue and engaging said double tree and a pin passing through the bracket, double tree and the hole in the yoke member and through the tongue.

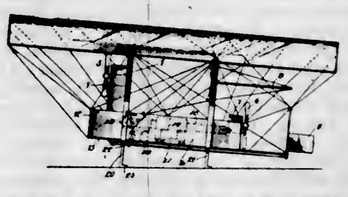
1,374,149. MACHINE FOR PICKING AND CUTTING CANE-STRAW AND PLOWING UNDER THE SAME. CLAUDIO GARCIA HUELVES, Santa Clara, Cuba. Filed Jan. 29, 1919. Serial No. 273,856. 3 Claims. (Cl. 55—118.)

1. In a straw picking and cutting machine, a wheeled frame, a spur gear, means to cause said spur gear to be rotated when the frame is in motion, a set of cutters mounted for rotation in relatively fixed bearings and having a gear engaging the first named gear, a shiftable shaft, a second set of cutters mounted thereon, a gear on said shiftable shaft engaging the first named gear, guide elements carried by the frame and having curved slots



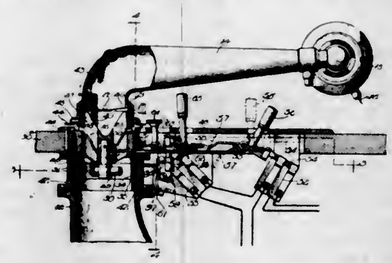
concentric with the first named gear, bearings for the shiftable shaft and mounted for movement in said slots, a lever, and connections between said lever and said bearings to enable said shiftable shaft to be moved by said lever to cause the second set of cutters to be moved toward and from the first named set of cutters.

1,374,150. AIRCRAFT. LOUIS V. JOHNSON, Orange, Tex. Filed July 3, 1919. Serial No. 308,464. 1 Claim. (Cl. 244—29.)



In an air craft, the combination with a transversely bowed sustaining plane, of a main body carried by and arranged beneath said plane and disposed completely within the lines of the same, a fixed pilot seat arranged in the forward portion of the body, a track carried by the said main body and extending longitudinally of the same, a passenger body mounted upon said track and movable longitudinally within the first named body rearwardly of the fixed pilot seat and provided with a plurality of passenger seats disposed in the longitudinal plane of the pilot seat, a flexible element connected to the ends of the passenger body, guides supporting said flexible element and disposed adjacent the ends of the main body, and means arranged adjacent the pilot seat and connection to said flexible element whereby the pilot may shift said passenger body and the passengers within the same longitudinally of the main body without leaving the pilot seat, said passenger body and the controlling means for the same being disposed entirely within the lines of and housed by the main body.

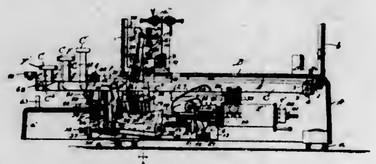
1,374,151. OPERATING MECHANISM FOR PHONOGRAPHS. WILLIAM W. KIDENEY, Chicago, Ill., assignor to American Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 7, 1917. Serial No. 152,992. 15 Claims. (Cl. 274—15.)



1. In a phonograph, a record, driving means therefor including a speed governor, a tone arm, and mechanical

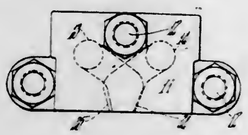
connections to said arm controlled directly by said governor for automatically moving said tone arm toward and away from said record.

1,374,152. TELEGRAPH-TRANSMITTER. CHARLES L. KRUM and HOWARD L. KRUM, Chicago, Ill., assignors to Morkrum Company, Chicago, Ill., a Corporation. Original application filed Nov. 29, 1909, Serial No. 530,455. Patent No. 1,232,045. Divided and this application filed Sept. 18, 1916, Serial No. 120,606. Renewed Mar. 19, 1920. Serial No. 367,122. 15 Claims. (Cl. 178—33.)



1. In a telegraph system in which the characters are represented by different permutations of a definite number of impulses of opposite polarity, a key-board transmitter comprising a set of pole changers, said pole changers having normally engaged and disengaged contacts connected to current sources of opposite polarity, a set of branch conductors connected to said pole changers, a set of separate transmitter switches having fixed and shiftable members connected to said conductors, and means controlled by the key-board transmitter for automatically and successively operating the shiftable of said set of transmitter switches to impart the permutations to the line.

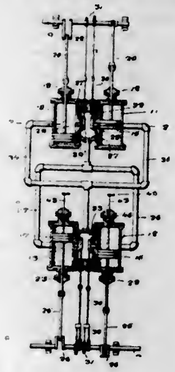
1,374,153. BURNER. HANNIBAL ALEXANDER KUNITZ, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 8, 1920. Serial No. 350,154. 10 Claims. (Cl. 158—75.)



7. A burner comprising a body having a pair of spaced passages formed therein, a cap, and a plurality of plates secured between said body and cap, certain of said plates having each an angular slot found therein and extending inwardly from one edge thereof and so formed as to be capable of communication with one or the other of said passages by reversing the position of the plate.

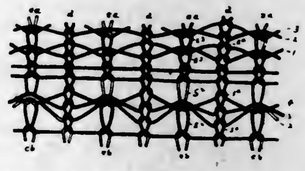
1,374,154. TRANSMISSION MECHANISM. PAUL F. MUELLER, Norfolk, Va., assignor to Norfolk Power Appliance Corporation, a Corporation of the United States. Filed Mar. 24, 1919. Serial No. 284,584. 2 Claims. (Cl. 60—62.)

1. The combination with a drive shaft and a driven shaft, of fluid contained cylinders, pistons operating within said cylinders, means for connecting the pistons to the drive shaft, other fluid contained cylinders, pistons operating within the latter, means for connecting the last mentioned pistons to the driven shaft, means whereby the fluid may be alternately forced from one set of cylinders to the other to impart motion from the drive shaft to the driven shaft and means including piston carried valves whereby the action of the fluid in the



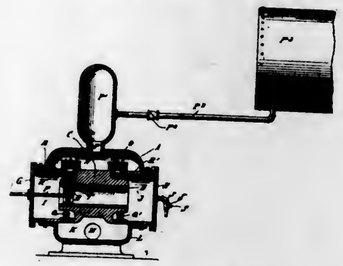
second mentioned cylinders may be neutralized to stop the operation of the pistons in the said second mentioned cylinders.

1,374,155. KNIT GARMENT. WALTER L. SIEWERS, Winston-Salem, N. C., assignor to The Indera Mills, Winston-Salem, N. C., a Copartnership composed of W. L. Siewers and F. H. Fries. Filed Mar. 19, 1920. Serial No. 367,263. 5 Claims. (Cl. 66—4.)



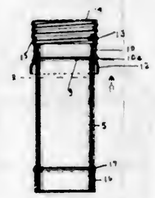
3. A fabric having a rib knit border in which successive courses of yarn are interlooped to form face ribs, and groups of the yarn courses radiate to the face rib loops from points in the back ribs intermediate of said face ribs.

1,374,156. PUMP. RALPH B. CARTER, Haworth, N. J., assignor to Ralph B. Carter Company, New York, N. Y., a Corporation of New York. Filed Feb. 2, 1918. Serial No. 215,070. 15 Claims. (Cl. 103—61.)



1. In a force pump, the combination of a cylinder, a casing having chambers in communication with each end of the cylinder, an air inlet to one of said chambers, a piston reciprocating in said cylinder, and means adapted to permit the escape of an appreciable amount of air or very small amount of water from one chamber to the other during the movement of the piston away from said air inlet and to prevent the same on the return movement.

1,374,157. HOLDER FOR SHAVING-SOAP STICKS. FRANK GRANT, Westfield, Mass. Filed Oct. 29, 1919. Serial No. 334,323. 5 Claims. (Cl. 206—56.)



5. In combination, a tube having a longitudinal key to engage the soap stick or the like contained therein, a second tube mounted for rotation on said first tube and provided with a screw thread for propelling the article, and an article contained in said tubes and having on one end a recess and on the opposite end a lug adapted to form a key to fit in a recess of corresponding shape, whereby the remnant of a partly used article may be locked for rotation to the end of a new article.

1,374,158. VALVULAR ARRANGEMENT OF INTERNAL-COMBUSTION ENGINES. GEORGE RICHARD INSHAW, Pollokshields, near Glasgow, Scotland. Filed Jan. 27, 1921. Serial No. 440,490. 5 Claims. (Cl. 123—79.)



1. In an internal combustion engine having an explosion cylinder at one end of which admission and exhaust take place, a valve casing consisting of a casting for attachment to said end of the cylinder, said casting having an induction port and an exhaust port arranged within the area defined by the bore of the cylinder, and a port communicating with the cylinder and with the two ports aforesaid, said cylinder port and exhaust port being substantially in line with the axis of the cylinder to afford a free escape for the exhaust gases, a circular seating between the three ports, a rotary distributing valve mounted in said seating on an axis at right angles to the axis of the cylinder, an inclined tappet-valve seating arranged between the cylinder end and the rotary valve port communicating with the cylinder and in close proximity to the latter, an inclined tappet valve engaging said tappet-valve seating to control the port to and from the cylinder, and an inclined guide for the stem of the valve, substantially as described.

1,374,159. [WITHDRAWN.]

1,374,160. COMPOSITION OF SUGAR AND METHOD OF PREPARING THE SAME. NATHANIEL C. FOWLER, Jr., Somerville, Mass.; Fannie A. Fowler administratrix of said Nathaniel C. Fowler, Jr., deceased. Filed Aug. 8, 1916, Serial No. 113,763. Renewed Apr. 16, 1918. Serial No. 228,969. 8 Claims. (Cl. 99—16.)

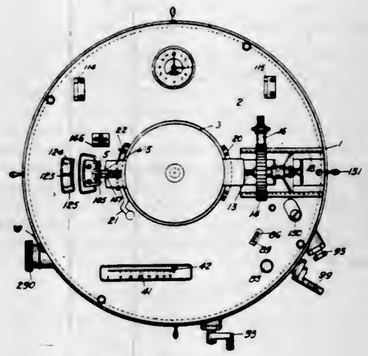
1. A composition comprising a mixture of sugar and fruit, in form suitable for domestic uses, consisting mainly of sugar in finely divided state, with which is combined a product derived from the fine grinding of fruit and so free from lumps and fibers that the particles thereof are not readily distinguishable in the mixture.

8. A process of making a sugar composition, including the partial drying of fruit until its natural juices have mostly disappeared as juices, the comminuting of it with addition of water and mixing with sugar, the further drying of it in presence of sugar, and the fine grinding of the dried comminuted material.

1,374,161. PAINT. CHESTER S. HATHAWAY, Quincy, Mass., assignor to Joseph A. Locke, Boston, Mass. Filed Mar. 24, 1920. Serial No. 368,281. 25 Claims. (Cl. 134—45.)

24. A composition adapted to harden containing water gas tar.

1,374,162. TESTING-STAND FOR GYROSCOPES. ELEMER MEITNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 6, 1915. Serial No. 54,319. 14 Claims. (Cl. 73—51.)



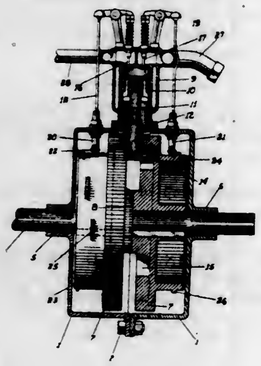
1. An apparatus for testing gyroscopes, comprising relatively movable members constant speed mechanism for causing relative movement of said members at a rate equal to the apparent movement in azimuth of a line moving with the earth but parallel to itself, a clutch in the connections between the movable member and said mechanism and means for automatically throwing out said clutch after said member has turned through a predetermined angle.

1,374,163. CIRCULAR-KNITTING MACHINE. MAX C. MILLER, Cumberland Hill, R. I., assignor to Jenckes Knitting Machine Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed July 2, 1917. Serial No. 178,196. 4 Claims. (Cl. 66—24.)



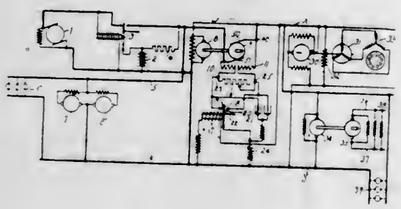
1. A circular knitting machine, having, in combination, two vertically yielding stitch cams, cover cams forming therewith needle passages which are alternately opened by the needle butts as they pass over the backs of the stitch cams, and a single double-acting picker arranged between the stitch cams.

1,374,164. INTERNAL-COMBUSTION ENGINE. HENRY A. NORDWICK, Stockton, Calif., assignor of one-half to Frank Seppi, Stockton, Calif. Filed Nov. 20, 1919. Serial No. 339,279. 2 Claims. (Cl. 123—55.)



1. A four cycle gas engine comprising a casing, a shaft turnably mounted therein, a plurality of cylinders secured to the casing in radial alinement with the shaft, pistons in the cylinders, spaced disks fixed to the shaft, means for moving the pistons in and out with the rotation of the disks, circular extensions projecting from the outer faces of the disks, each cylinder having valve tappets projecting radially toward the shaft and slidably mounted in the casing, and each tappet on a side being in offset alinement from the remainder, and cams on the extensions positioned to lift each tappet at predetermined periods in the rotation of the disks.

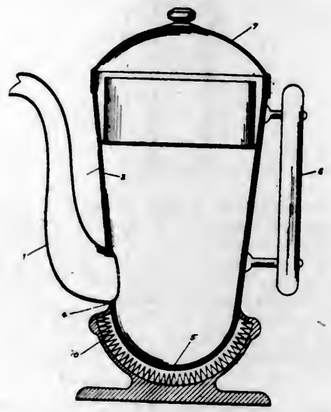
1,374,165. POTENTIAL-REGULATING SYSTEM. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 2, 1915. Serial No. 59,299. 34 Claims. (Cl. 171—225.)



1. Means, for regulating the voltage of a supply line, comprising a dynamo-electric machine, means for causing said machine to either aid or oppose the voltage in said supply line and means controlled by the E. M. F. generated by said machine for strengthening the field thereof when said E. M. F. exceeds a predetermined amount.

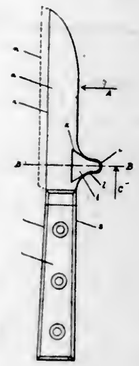
1,374,166. PERCOLATOR. EDWARD TOWE, Rochester, N. Y., assignor to Frederick J. Weider, Rochester, N. Y. Filed Feb. 7, 1921. Serial No. 443,263. 6 Claims. (Cl. 53—8.)

1. In a percolator the combination of an outer and an inner shell one nesting within the other, said inner shell having an opening in the bottom thereof communicating



with the space between said inner and said outer shell and means to apply heat to said outer shell.

1,374,167. PARING-KNIFE. FRANK D. WARREN, Colorado Springs, Colo., assignor to The Domestic Utility Corporation, Colorado Springs, Colo. Filed Jan. 22, 1919. Serial No. 272,598. 1 Claim. (Cl. 146—6.)

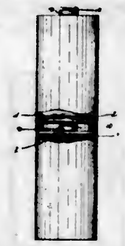


A knife comprising a blade and a semi-circular loop having its two ends secured to the back of the said blade.

1,374,168. CORRUGATED DRY-BATTERY CUP. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Sept. 20, 1919. Serial No. 325,211. 2 Claims. (Cl. 204—38.)

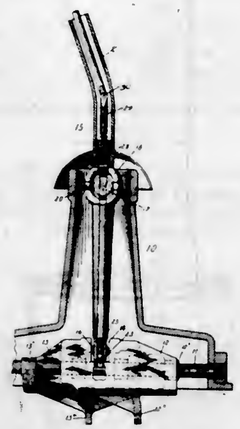
1. A dry-battery cell having a circumferentially-corrugated zinc cup, an electrolyte located therein, a relatively thick closure located within the cup and held in

place therein by the entrance of one or more of the corrugations thereof into the edge of the closure, and a carbon



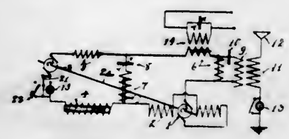
electrode or pencil mounted in and supported by the said closure and extending into the electrolyte.

1,374,169. LOCK FOR GEAR-SHIFT LEVERS. JOHN H. SHAW, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Dec. 19, 1919. Serial No. 345,936. 7 Claims. (Cl. 70—128.)



6. In combination with a gear shift lever, a supporting bracket, means for swingingly mounting said lever within said bracket including trunnions extending at right angles to each other, and locking means for said lever positioned at the lower end of said lever, said locking means operated by a rod extending longitudinally within said lever and between said trunnions.

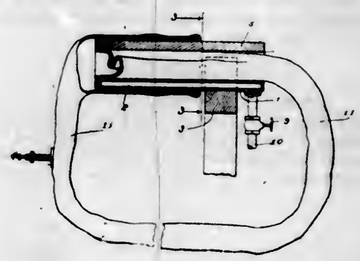
1,374,170. GENERATING SYSTEM FOR ELECTRIC CURRENTS. AUGUST J. KLONECK, New York, N. Y. Filed Mar. 27, 1916. Serial No. 86,963. 12 Claims. (Cl. 250—36.)



1. A system for generating high frequency currents comprising a dynamo generator, a source of electrical current and suitable reactances in an electric circuit, said dynamo generator having the field reversed to be inoperative by an armature current of said generator but operative by a current from a source of electrical current, a means for utilizing the resultant current and means for varying the generating of currents for a desired purpose.

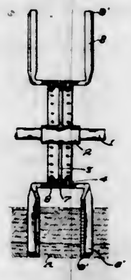
REISSUES.

15,076. VULCANIZING APPARATUS AND PROCESS. EDWARD FETTER, Baltimore, Md., assignor to The Pneumatic Tube Steam Splicer Company, Baltimore, Md., a Corporation of Maryland. Filed Jan. 10, 1921. Serial No. 436,355. Original No. 1,312,029, dated Aug. 5, 1919, Serial No. 262,351, filed Nov. 13, 1918. 5 Claims. (Cl. 18—45.)



5. The process of splicing the ends of a tube of rubber or similar material to form an inner tube for pneumatic tires which consists in forming the ends of the tube and cuffing the tube into a vulcanizable splice over a mandrel bringing the splice directly in contact with the outer surface of the mandrel and supplying heat to the said outer surface of the mandrel to cure and vulcanize the splice.

15,077. TRACTION-WHEEL. RUSH E. HAMILTON, Geyserville, Calif., assignor to Hamilton Tractor Company, a Corporation of California. Filed June 12, 1919, Serial No. 303,781. Original No. 1,139,968, dated May 18, 1915, Serial No. 876,619, filed Dec. 11, 1914. 4 Claims. (Cl. 301—41.)



1. In combination, a wheel, a plurality of tractors detachably secured thereto and each comprising a base member extending transversely of the wheel for the full width thereof and formed at each end with an integral prong, said prongs extending therefrom at substantially right angles to the face of the periphery of the wheel and the faces thereof disposed at an angle to each other.

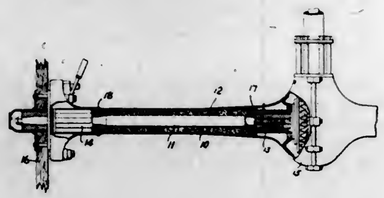
2. In combination with a wheel formed with transverse depressions extending the full width thereof, a tractor detachably secured in each of said depressions and each comprising a base member extending transversely of the wheel rim and projecting beyond the side edges thereof, a substantially flat prong formed integral with each end of said base member and extending therefrom outwardly at right angles to the periphery of the wheel, the said prongs at the joint with said base being twisted to dispose the faces thereof at an angle to the path of travel of the wheel.

3. A tractor attachment for securing to the tread of a wheel, comprising an inverted substantially U-shaped member formed with a base portion and integral parallel

spaced substantially flat faced prong members extending at right angles to the base member, and the faces of said prongs disposed at an angle to each other.

4. In combination, a wheel, a plurality of tractors detachably secured thereto, each of said tractors comprising a base member extending transversely of the wheel and formed at each end with an integral prong, said prongs extending therefrom at substantially right angles to the face of the periphery of the wheel and being relatively long and unobstructed throughout their length whereby they are adapted to penetrate loose soil to such a depth as to engage with the packed under-surface to support the full load of the wheel.

15,078. LUBRICATING-PACKING. HARRY A. LACERDA, Jersey City, N. J., assignor to Ralph W. Benson, New York, N. Y. Filed Dec. 21, 1920. Serial No. 432,369. Original No. 1,347,388, dated July 20, 1920, Serial No. 197,068, filed Oct. 17, 1917. 3 Claims. (Cl. 286—7.)



1. In a vehicle having a driving axle, a housing through which extends the driving axle, and a bearing at each end of said driving axle, a tubular packing filling the annular space between the axle and the housing, said packing being made in short sections and pliable to permit of tightly packing it in said annular space so as to completely fill said space from one bearing to the other, said packing having lubricating qualities to lubricate the axle and being of a fatty nature so as to resist the flow of a lubricating medium.

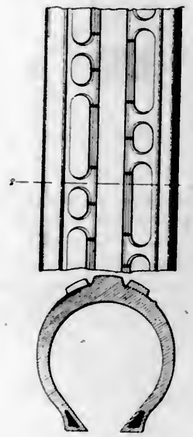
DESIGNS.

57,460. PLAQUE OR THERMOMETER-SUPPORT. CARL J. BALLIETT, Buffalo, N. Y., assignor to Foster-Milburn Company, Buffalo, N. Y. Filed Feb. 16, 1915. Serial No. 8,637. Term of patent 14 years.



The ornamental design for a plaque or thermometer support, as shown and described.

57,461. TIRE-CASING. FRANK H. BREWSTER, Buffalo, N. Y., assignor to Madison Tire & Rubber Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,688. Term of patent 14 years.



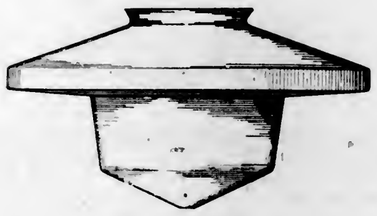
The ornamental design for a tire casing, as shown.

57,462. LAMP-GLOBE. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1920. Serial No. 366,124. Term of patent 14 years.



The ornamental design for a lamp globe as shown and described.

57,463. LIGHTING-GLOBE. WARD HARRISON, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1919. Serial No. 282,992. Term of patent 14 years.



The ornamental design for a lighting globe substantially as shown.

57,464. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,620. Term of patent 3½ years.



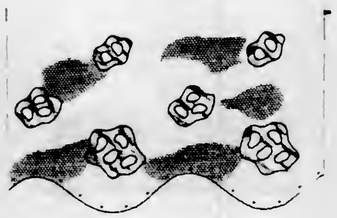
The ornamental design for lace as herein shown and described.

57,465. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,621. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

57,466. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler Filed Dec. 1, 1920. Serial No. 427,622. Term of patent 3½ years.



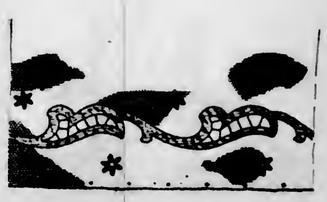
The ornamental design for lace as herein shown and described.

57,467. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,623. Term of patent 3½ years.



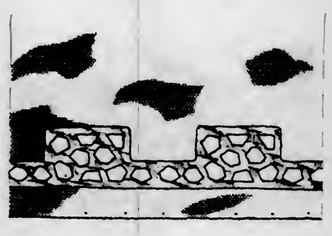
The ornamental design for lace as herein shown and described.

57,468. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,624. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

57,469. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,625. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

57,470. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,626. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

57,471. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,627. Term of patent 3½ years.



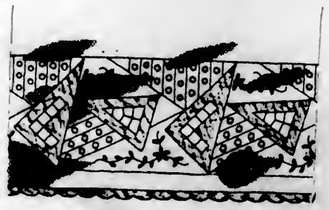
The ornamental design for lace as herein shown and described.

57,472. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,628. Term of patent 3½ years.



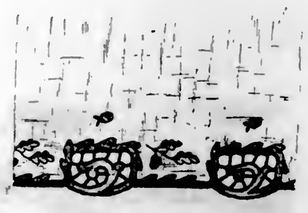
The ornamental design for lace as herein shown and described.

57,473. LACE. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Dec. 1, 1920. Serial No. 427,629. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

57,474. EMBROIDERY. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, New York, N. Y., a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Jan. 7, 1921. Serial No. 435,747. Term of patent 3½ years.



The ornamental design for embroidery as herein shown and described.

57,475. EMBROIDERY. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, New York, N. Y., a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Jan. 7, 1921. Serial No. 435,748. Term of patent 3½ years.



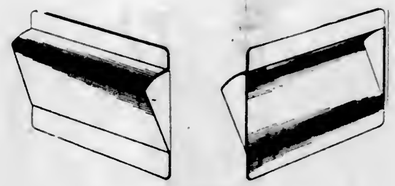
The ornamental design for embroidery as herein shown and described.

57,476. EMBROIDERY. FRANZ HOENIG, New York, N. Y., assignor to Tobler & Hoenig, New York, N. Y., a Firm composed of William A. Tobler, Franz Hoenig, and Walter R. Tobler. Filed Jan. 7, 1921. Serial No. 435,749. Term of patent 3½ years.



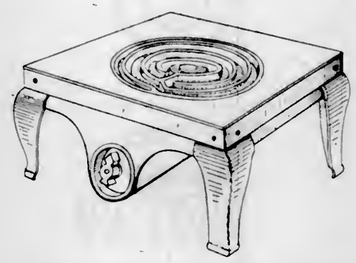
The ornamental design for embroidery as herein shown and described.

57,477. HANDHOLE-COVER FOR BOXES. JOHN JANUCHOWSKY, St. Louis, Mo. Filed May 31, 1916. Serial No. 100,974. Term of patent 3½ years.



The ornamental design for a hand hole cover for boxes, as shown.

57,478. PORTABLE COOK-STOVE. FRANK KUHN and JAY A. HAND, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 6, 1918. Serial No. 227,136. Term of patent 14 years.



The ornamental design for a portable cook stove, substantially as shown.

57,479. BOTTLE. JULIUS JOHN MOJONNIER, Oak Park, Ill., assignor to Mojonnier Bros. Co., Chicago, Ill., a Corporation of Illinois. Filed May 3, 1920. Serial No. 378,700. Term of patent 14 years.



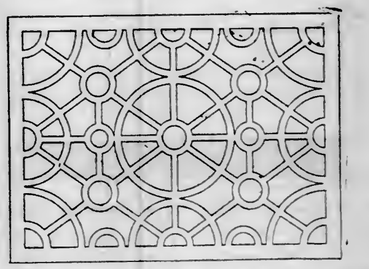
The ornamental design for a bottle as shown.

57,480. TIRE. CHASE FRANK OFENSEND, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 9, 1920. Serial No. 372,684. Term of patent 14 years.



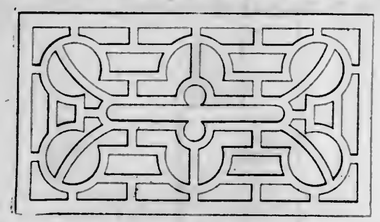
The ornamental design for a tire as shown.

57,481. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed June 28, 1920. Serial No. 392,521. Term of patent 3½ years.



The ornamental design for a grille for talking-machines, as shown.

57,482. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Oct. 25, 1920. Serial No. 419,524. Term of patent 3½ years.



The ornamental design for a grille for talking-machines, as shown.

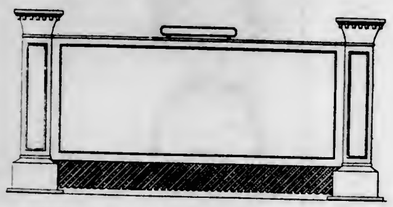
57,483. ELECTRIC-MOTOR CASING. CARL A. RIETZ, San Francisco, Calif. Filed Feb. 3, 1920. Serial No. 355,986. Term of patent 14 years.





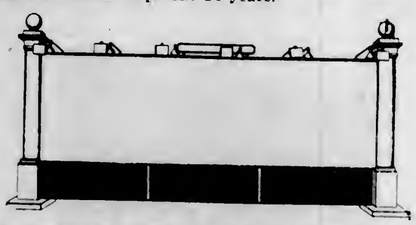
The ornamental design for an electric motor casing substantially as shown.

57,484. MINIATURE BILLBOARD. WILLIAM E. TELLING, Cleveland, Ohio. Filed Nov. 21, 1919. Serial No. 339,704. Term of patent 14 years.



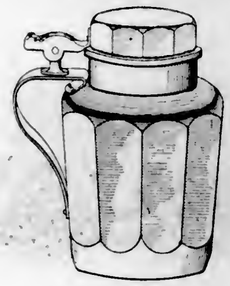
The ornamental design for a miniature billboard, as shown.

57,485. MINIATURE BILLBOARD. WILLIAM E. TELLING, Cleveland, Ohio. Filed Nov. 21, 1919. Serial No. 339,705. Term of patent 14 years.



The ornamental design for a miniature billboard, as shown.

57,486. SYRUP-JUG. ALBERT J. VITS, Manitowoc, Wis. Filed Aug. 4, 1919. Serial No. 315,329. Term of patent 14 years.



The ornamental design for a syrup jug, as shown.

57,487. PITCHER. ALBERT J. VITS, Manitowoc, Wis. Filed Aug. 4, 1919. Serial No. 315,330. Term of patent 14 years.



The ornamental design for a pitcher, as shown.

57,488. CONTAINER. VICTOR VIVAUDOU, New York, N. Y. Filed Dec. 29, 1919. Serial No. 348,194. Term of patent 14 years.





The ornamental design for a container, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 5, 1921.

[PUBLISHED APRIL 9, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 104,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER A. SIMONDS, Naguabo, Porto Rico. Filed June 1, 1917.



The said trade-mark consists of a shield having concentrically thereof inner and outer spaced circles with black outlines, the circles and shield being colored green, while within the shield appears a white angle having above the same two bee symbols and below it one bee symbol.

Particular description of goods.—Fresh Grapefruit and Fresh Oranges.

Claims use since Dec. 20, 1916.

Ser. No. 112,544. (CLASS 7. CORDAGE.) TUBBS CORDAGE COMPANY, San Francisco, Calif. Filed Aug. 5, 1918.

VICTORY

Particular description of goods.—Rope Made from Fiber.

Claims use since June 1, 1918.

Ser. No. 114,853. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAY-JUERGENS CO., Cincinnati, Ohio. Filed Dec. 28, 1918.

JOLLIGOOD

Particular description of goods.—Non-Alcoholic Cordials Consisting of a Solution in Water of Fruit-Acids, Sugar, Flavoring Materials, and Less Than One-Half of One Per Cent. Alcohol, by Volume.

Claims use since Dec. 10, 1918.

Ser. No. 115,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y. Filed Feb. 19, 1919.

Mason's Chery Bomb

No claim being made to the word "Masons" apart from the other features of the mark shown in the drawing.

Particular description of goods.—Candies and Chocolates.

Claims use since Jan. 5, 1918.

Ser. No. 118,050. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARTIN IVERSON, Minneapolis, Minn. Filed May 1, 1919.

WASHRITE

Particular description of goods.—Detergent Materials.

Claims use since Dec. 5, 1917.

Ser. No. 121,231. (CLASS 39. CLOTHING.) BRAUER BROS. SHOE COMPANY, St. Louis, Mo. Filed Aug. 4, 1919.



No claim being made to the representation of a shoe and the words "For Boys" and "For Girls" apart from the mark shown in the drawing.

Particular description of goods.—Shoes of Leather and of Cloth or Canvas.

Claims use since May 31, 1919.

Ser. No. 122,731. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill. Filed Sept. 15, 1919.

Cracker Jack

Particular description of goods.—Ice-Cream Cones.

Claims use in connection with ice-cream cones since May 1, 1919, and in connection with confectionery and candied popcorn since Jan. 28, 1896.

Ser. No. 123,630. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DODGE SALES & ENGINEERING CO., Mishawaka, Ind. Filed Oct. 10, 1919.

ONEIDA

Our trade-mark consists of the coined word "Oneida," the letters of which are a combination of upper and lower case type, of which the last letter is joined to the letter "e" by an under-flourish, all the letters having their vertical lines inclined toward the right, producing a simulated italicized effect.

Particular description of goods.—Steel Pulleys.

Claims use since 1906.

Ser. No. 123,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GARRISON-COOK CANDY CO., Macon, Ga. Filed Oct. 17, 1919.

BIG BOY

Particular description of goods.—Stick-Candy.

Claims use since Jan. 1, 1917.

Ser. No. 124,278. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio. Filed Oct. 28, 1919.

ANGLE-TREAD

The word "Angle-Tread."

Particular description of goods.—Rubber Tires, Casings, and Tubes.

Claims use since July 31, 1919.

Ser. No. 124,616. (CLASS 38. PRINTS AND PUBLICATIONS.) MOORE & EVANS, Chicago, Ill. Filed Nov. 6, 1919.

Our Salesman

Particular description of goods.—Publications—Namely, Catalogues Issued Monthly and Annually.

Claims use since the month of June, 1889.

Ser. No. 125,067. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORYTZ H. WILDSTEIN, Rockaway Beach, N. Y. Filed Nov. 18, 1919.



No claim is being made to the words "Rye Bread, 515 Boulevard, Rockaway Beach, L. I." apart from the mark shown in the drawing.

Particular description of goods.—Bread, Cake, and Pastries.

Claims use since May 1, 1919.

Ser. No. 126,550. (CLASS 39. CLOTHING.) ALICE M. M. WHITE, Elmhurst, N. Y. Filed Dec. 27, 1919.

SANAS

Particular description of goods.—Sanitary Aprons of a Kind Used by Small Children and Consisting of a Sheet of Absorbent Cloth Overlying a Sheet of Waterproof Material, Said Sheets Being Connected Together and Provided with Means to Support Them in Position Behind a Child.

Claims use since Nov. 15, 1919.

Ser. No. 126,741. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEBR. NOELLE, Ludenscheid, Germany. Filed Jan. 2, 1920.



Particular description of goods.—Table, Dessert, Fish, Bread, Preserve-Stand, Cake, Fruit, Sardine, and Snail Forks; Table, Dessert, Tea, Jam, Egg, Ice, Gravy, Honey, Milk, Salt, Lemonade, and Tea-Caddy Spoons; Cake-Slicers, and Sugar-Crushers, All Made of Aluminium or of Britannia Metal.

Claims use since Apr. 9, 1913, upon the above goods made of aluminium and since June 2, 1875, upon the above goods made of Britannia metal.

Ser. No. 126,742. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN A. ORTLIEB, Reading, Pa. Filed Jan. 2, 1920.

IDEAL STAIN REMOVER

The words "Stain Remover" being specifically disclaimed except in connection with the mark as shown.

Particular description of goods.—Chemical Stain-Remover for Removing Iron-Rust, Ink, Fruit, and Medicine Stains from Clothing, Linoleum, Marble, &c.

Claims use since February, 1919.

Ser. No. 126,922. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BRUNER WOOLEN COMPANY, INC., New York, N. Y. Filed Jan. 8, 1920.



Particular description of goods.—Woolen Piece Goods and Woolen Cloths.

Claims use since about January, 1919.

Ser. No. 127,032. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHIPPEWA SPRINGS CORPORATION, Minneapolis, Minn. Filed Jan. 12, 1920. Under ten-year proviso.



Particular description of goods.—Natural Spring-Water and Its Products, Known as Root-Beer, Sarsaparilla, Dry Ginger-Ale, Grape, Wild Cherry, Orange, Raspberry, and Strawberry Cider, Prepared or Compounded as Beverages from the Said Natural Spring-Water.

Claims use since Dec. 16, 1892.

Ser. No. 127,106. (CLASS 7. CORDAGE.) AMERICAN NET & TWINE CO., East Cambridge, Mass. Filed Jan. 14, 1920.



Particular description of goods.—Twine and Fiber Cord.

Claims use since Nov. 24, 1894.

Ser. No. 127,276. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN BUREAU OF ENGINEERING INC., Chicago, Ill. Filed Jan. 19, 1920.

AMBU

Particular description of goods.—Battery-Turntables, Battery-Plate Presses, Battery-Steamers, Battery-Plate-Burning Racks, and Battery-Carriers.

Claims use since June 22, 1915.

Ser. No. 127,463. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACQUES BERNSTAMM, Atlanta, Ga. Filed Jan. 22, 1920.

TUNO

Particular description of goods.—Peanut-Butter.

Claims use since Apr. 15, 1919.

Ser. No. 127,898. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMONWEALTH COFFEE COMPANY, New York, N. Y. Filed Feb. 3, 1920.

COMMONWEALTH

Particular description of goods.—Coffee.

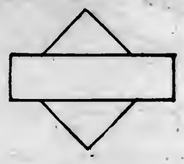
Claims use since Aug. 1, 1918.

Ser. No. 128,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 5, 1920.

SYLPH

Particular description of goods.—Biscuit.
Claims use since Jan. 30, 1920.

Ser. No. 128,052. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALEX. D. SHAW & Co., New York, N. Y. Filed Feb. 6, 1920.



Consists of the arbitrary symbol consisting of a square diagonally crossed by a rectangle.
Particular description of goods.—Polish for Woodwork, Tables, and Floors.
Claims use since Jan. 30, 1918.

Ser. No. 128,285. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Boston, Tex., and New York, N. Y. Filed Feb. 11, 1920.

SOUTHERN STAR



The star is in red and the "T" in green and the words "Southern Star" in black.
Particular description of goods.—Kerosene-Oil.
Claims use since 1911.

Ser. No. 128,638. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAUL D. ABRAMS, Boston, Mass. Filed Feb. 20, 1920.

DR. THEODOR HERZL



COFFEE

No claim being made to the word "Coffee" apart from the mark shown in the drawing, comprising the words "Dr. Theodor Herzl" and the portrait of Dr. Theodor Herzl, deceased.
Particular description of goods.—Tea, Coffee, Cocoa, Spices.
Claims use since July 1, 1919.

Ser. No. 129,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT A. HARPER, St. Louis, Mo. Filed Mar. 13, 1920.

CAR-BOI-DEEN

Particular description of goods.—Compound Solution for the Removal of Carbon in Automobiles Using Gasolene and in Gasolene-Engines, Also for the Consumption of Monoxid Gas.
Claims use since Feb. 26, 1919.

Ser. No. 129,836. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 17, 1920. Under ten-year proviso.

STANDARD PAINT OF AMERICA

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints for General Use.
Claims use since 1888.

Ser. No. 130,213. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. A. CUNNING, Las Animas, Colo. Filed Mar. 26, 1920.

CLIMATIC

Particular description of goods.—A Veterinarian and Poultry Preparation in the Nature of a Tonic and Healing-Powder for the Treatment of Roup in Poultry and Spavin in Horses.
Claims use since 1910.

Ser. No. 131,181. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KORA M. LUBLIN, New York, N. Y. Filed Apr. 15, 1920.

KOROZONE



Particular description of goods.—Cleansing Creams and Pastes for External Use on Face and Hands, Cold-Creams, Hair-Tonics, Shampoo-Powders, Face-Lotions, Hand-Lotions, Depilatory Wax, Rouges, Face-Powders, Face-Masks, Oily-Hair Tonic, Dry-Hair Tonic, Oil Used as a Dressing for the Human Hair, Liquid Shampoo, Treatment for the Hair, French Tint-Tonic, Snow-Bloom, Skin-Tonic, Face and Hand Lotion, Liquid Massage, Superfluous-Hair Wax, Titian-Tint Shampoo, Golden-Glint Shampoo, Shampoo-Powder, Astringent Cream, Cleansing-Paste, Shampoo-Paste.
Claims use since March, 1914.

Ser. No. 131,970. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERPROVINCIAL FLOUR MILLS, LTD., Saskatoon, Saskatchewan, Canada. Filed May 3, 1920.

ACE

Particular description of goods.—Wheat-Flour.
Claims use since March, 1918.

Ser. No. 131,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERPROVINCIAL FLOUR MILLS, LTD., Saskatoon, Saskatchewan, Canada. Filed May 3, 1920.

O·S·A

Particular description of goods.—Wheat-Flour.
Claims use since March, 1918.

Ser. No. 132,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERPROVINCIAL FLOUR MILLS, LTD., Saskatoon, Saskatchewan, Canada. Filed May 14, 1920.

PROVINCIAL

Particular description of goods.—Wheat-Flour.
Claims use since March, 1928.

Ser. No. 132,519. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ESSANTEE COMPANY, St. Louis, Mo. Filed May 17, 1920.

PARADISE



Particular description of goods.—Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Maltless Syrups.
Claims use since Apr. 1, 1920.

Ser. No. 133,281. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH ROBERT, Paris, France. Filed June 4, 1920.

ALVITYL

Particular description of goods.—Sterilized Medicinal Preparation from Rare Earths Having Antiseptic Properties for External Application, Dressings, and Intrauretral or Intravaginal Injection.
Claims use since June, 1920.

Ser. No. 133,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FERNAND PLUMENAIL, Paris, France. Filed June 9, 1920.

MELBA

Particular description of goods.—Chocolates of All Kinds, Crude Chocolate, Chocolate or Cocoa Powder, Confectionery, Bonbons of All Sorts, Cakes, Pastries, and Biscuits.
Claims use since 1915.

Ser. No. 133,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIS E. URICK, Los Angeles, Calif. Filed June 9, 1920.

POINSETTIA

Particular description of goods.—Fresh Cantaloups, Fresh Cauliflower, Fresh Onions, Fresh Tomatoes, and Fresh Grapes.
Claims use since Jan. 2, 1920.

Ser. No. 134,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed June 22, 1920. Under ten-year proviso.

FLEXIBLE

Particular description of goods.—Licorice-Candy.
Claims use since Jan. 1, 1895.

Ser. No. 134,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CASH PROVISION AND SUPPLY CO., Trenton, N. J. Filed June 23, 1920.

PREPARED ASE'S PORK

The use of the words "Prepared Pork" is disclaimed.
Particular description of goods.—Pork, and Particularly Bacon or Strips of Pork in Bags.
Claims use since Jan. 1, 1915.

Ser. No. 134,136. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIAS E. LE SIEUR, Boston, Mass. Filed June 24, 1920.

OIL OF HEALTH

No claim being made to the words "Oil of Health" apart from the mark shown in the drawing.
Particular description of goods.—Preparation for the Relief of Coughs, Colds, Sore Throat, and Catarrh.
Claims use since 1908.

Ser. No. 134,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRIERSON DRUG STORE, Charleston, S. C. Filed June 25, 1920.

ANTIANT

Particular description of goods.—Preparation for Use in the Destruction of Ants.
Claims use since Apr. 1, 1917.

Ser. No. 134,446. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed June 30, 1920.

WEATHER RAYNGARD PROOF

No claim is made for the words "Weather" and "Proof" apart from the mark shown in the drawing.
Particular description of goods.—Waterproof and Weatherproof Coats.
Claims use since May 28, 1920.

Ser. No. 134,618. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed July 6, 1920.

Williams'

Particular description of goods.—Shaving-Cream in the Nature of a Soap for Shaving Purposes, Shaving-Powder in the Nature of a Soap for Shaving Purposes, Shaving-Stick, and Liquid Soap Especially Prepared for Shampoo Purposes.
Claims use since about the early part of December, 1887, as to the shaving-cream, since about the month of July, 1910, as to shaving-powder, since about the month of August, 1885, as to shaving-stick, and since about the month of November, 1915, as to liquid shampoo.

Ser. No. 134,678. (CLASS 38. PRINTS AND PUBLICATIONS.) THE THRESHERMEN'S REVIEW COMPANY, St. Joseph, Mich. Filed July 7, 1920.

FARM ENGINEERING

Particular description of goods.—Publication at Present Issued Quarterly.
Claims use since April, 1920.

Ser. No. 135,073. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BEARDON COMPANY, St. Louis, Mo. Filed July 16, 1920.

ALFRESCO

Particular description of goods.—Cold-Water Paint.
Claims use since about the 1st of January, 1916.

Ser. No. 135,356. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BESSEMER GAS ENGINE COMPANY, Grove City, Pa. Filed July 24, 1920.

BG BESSEMER GAS ENGINE CO.

Particular description of goods.—Internal-Combustion Engines, Oil-Well Pumping-Powers, and Fluid-Compressors.
Claims use since July 1, 1919.

Ser. No. 135,448. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMANUEL KLEIN, New York, N. Y. Filed July 27, 1920.

AERIOL

Particular description of goods.—Pure Fat, Salad-Oil, and Cooking-Oil.
Claims use since Apr. 10, 1920.

Ser. No. 135,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLLAND FOOD CORPORATION, New York, N. Y. Filed July 28, 1920.

HOFOOD

Particular description of goods.—Dried Fruits, Flours—Namely, Wheat-Flour, Rye-Flour, Corn-Flour, Potato-Flour, Tapioca-Flour—Rolled Oats, Olein.
Claims use since on or about July 1, 1919.

Ser. No. 135,644. (CLASS 15. OILS AND GREASES.) HALSTEAD SPECIALTIES COMPANY, San Francisco, Calif. Filed July 31, 1920.

SQUEEK-EEZ

Particular description of goods.—Rust-Solvent of a Lubricant Nature and a Lubricant.
Claims use since May 1, 1920.

Ser. No. 135,785. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich. Filed Aug. 4, 1920.

KORN KRISP

Particular description of goods.—Cereal Breakfast Food.
Claims use since about Apr. 10, 1902.

Ser. No. 135,917. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DEMING COMPANY, Salem, Ohio. Filed Aug. 9, 1920.

GOKAR

Particular description of goods.—Grease-Guns.
Claims use since about July 30, 1920.

Ser. No. 135,962. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Filed Aug. 10, 1920.

GRAFONOLA

Particular description of goods.—Furniture-Polish.
Claims use since on or about May 10, 1920.

Ser. No. 135,963. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Filed Aug. 10, 1920.

Columbia Grafonola

Particular description of goods.—Furniture-Polish.
Claims use since on or about May 10, 1920.

Ser. No. 135,964. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Filed Aug. 10, 1920.



Particular description of goods.—Furniture-Polish.
Claims use since on or about May 10, 1920.

Ser. No. 136,042. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SCINTILLA, Canton of Solothurn, Switzerland. Filed Aug. 12, 1920.

SCINTILLA

Consisting of the word "Scintilla."
Particular description of goods.—Motor-Vehicles—viz., Motor-Cars, Motor-Boats, Flying-Machines, Airships, and Motor-Bicycles.
Claims use since June 19, 1917.

Ser. No. 136,069. (CLASS 39. CLOTHING.) CARLTON TRADING COMPANY, New York, N. Y. Filed Aug. 13, 1920.



The drawing being lined for red.
Particular description of goods.—Hosiery.
Claims use since May 12, 1920.

Ser. No. 136,192. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Aug. 17, 1920.

"FULGURANTE"

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China-Grass.
Claims use since June 9, 1920.

Ser. No. 136,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Aug. 17, 1920.

TANNIGEN

Particular description of goods.—Antigonorrheic and Astringent Medical Substances.
Claims use since about Feb. 24, 1890.

Ser. No. 136,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Aug. 17, 1920.

ARISTOL

Particular description of goods.—Antiseptic Powder.
Claims use since about Nov. 25, 1889.

Ser. No. 136,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Aug. 17, 1920.

LOSOPHAN

Particular description of goods.—An Antiseptic Medical Substance in Powdered Form.
Claims use since about Feb. 4, 1890.

Ser. No. 136,223. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Aug. 17, 1920.

Sulfonal

Particular description of goods.—A Soporific Drug Preparation Containing Carbon, Hydrogen, and Oxygen.
Claims use since about Feb. 16, 1888.

Ser. No. 136,227. (CLASS 39. (CLOTHING.) BERMAN & BRENNER, New York, N. Y. Filed Aug. 18, 1920.

ROCHESTER CLOTHES

No claim being made to the exclusive use of the words "Rochester Clothes" apart from the mark shown on the drawing.
Particular description of goods.—Men's and Young Men's Clothes—viz., Three-Piece Suits and Overcoats.
Claims use since May, 1920.

Ser. No. 136,278. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN MOORE & CO., New York, N. Y. Filed Aug. 19, 1920.

SANI-FLAT

The lining shown on the accompanying drawing is intended for shading only.
Particular description of goods.—Flat Wall-Paint.
Claims use since July, 1908.

Ser. No. 136,286. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. F. BAILEY AND CO., New York, N. Y. Filed Aug. 20, 1920.

LINEN MAID

Consisting of the words "Linen Maid."
Particular description of goods.—Bleached, Unbleached, Dyed, and Printed Linen Piece Goods; Union, Cotton, and Silk and Mixtures of the Same in the Piece; Face, Hand, Dish, and Wash Cloths; Napkins, Scarfs, Curtains, Draperies, Bureau and Table Covers, Bedspreads, Sheets, Pillow-Cases, Towels, and Bath-Mats of Textile Fabric.
Claims use since Apr. 5, 1920.

Ser. No. 136,381. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands. Filed Aug. 23, 1920.

TRIMETAL ★ M.Z.M.

Particular description of goods.—Paints, Whether White or Colored, in Powder, Paste, or Liquid Form.
Claims use since on or about Jan. 1, 1921.

Ser. No. 136,439. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. L. TAYLOR COMPANY, Los Angeles, Calif. Filed Aug. 24, 1920.

DIAMOND BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Fresh Citrus Fruits.
Claims use since prior to the year 1905.

Ser. No. 136,623. (CLASS 38. PRINTS AND PUBLICATIONS.) WM. FISCHMAN, INC., New York, N. Y. Filed Aug. 30, 1920.

Ideas & Ideals

Particular description of goods.—Periodically-Issued Booklets.
Claims use since Jan. 2, 1920.

Ser. No. 136,635. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) J. A. MEYERS & CO., Los Angeles, Calif. Filed Aug. 30, 1920.

TRINPEART

AMERICA'S WEDDING RING

No claim is made to the right to the exclusive use of the words "America's Wedding Ring" except in the setting and relationship in which these words appear in the drawing.
Particular description of goods.—Wedding-Rings.
Claims use since Jan. 1, 1920.

Ser. No. 136,712. (CLASS 21. ELECTRIC APPARATUS, MACHINES, AND SUPPLIES.) INTERNATIONAL DEVICES COMPANY, New York, N. Y. Filed Sept. 1, 1920.



Particular description of goods.—X-Ray Apparatus, Electrical Time-Switches, Electrical Speed-Governors, Automatic Electric Switches, High-Frequency Apparatus, Electric Motors, Electric Generators, and Radio Apparatus of All Kinds.
Claims use since about Sept. 1, 1919.

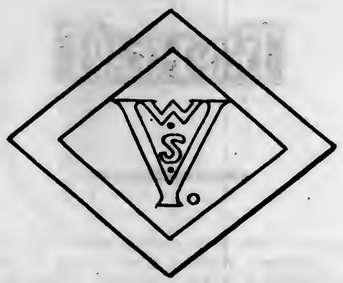
Ser. No. 136,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YANGTZE CORPORATION, New York, N. Y. Filed Sept. 3, 1920.



MING CHA [TEA]

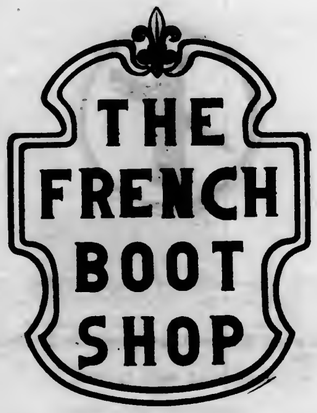
The words "Ming Cha" are Chinese words meaning "Illustrious Tea." No claim is made to the word "Tea" apart from the mark as shown.
Particular description of goods.—Tea.
Claims use since about August, 1920.

Ser. No. 137,015. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. S. VICK CHEMICAL CO., Knoxville, Tenn. Filed Sept. 9, 1920.



Particular description of goods.—Salve.
Claims use since about January, 1917.

Ser. No. 137,035. (CLASS 39. CLOTHING.) LOUIS J. LEVINE, New York, N. Y. Filed Sept. 10, 1920.



No claim is made to the words "The French Boot Shop" apart from the trade-mark shown on the drawing.
Particular description of goods.—Boots and Shoes of Leather.
Claims use since July 5, 1920.

Ser. No. 137,238. (CLASS 46. (FOODS AND INGREDIENTS OF FOODS.) GEO. M. RYRIE COMPANY, Alton, Ill. Filed Sept. 15, 1920.

PIASA

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Fruit Preserves, Fruit Jellies, Fruit Jams, Coffee, Tea, Flavoring Extracts, Spice, Chilli Sauce, Catsup, Vinegar, Peanut-Butter, and Apple-Butter.
Claims use since June 19, 1920.

Ser. No. 137,308. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CHAMPION MOTORS CORPORATION, Philadelphia, Pa. Filed Sept. 18, 1920.



Particular description of goods.—Automobiles.
Claims use since about April, 1919.

Ser. No. 137,310. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLONIAL SALT COMPANY, Akron, Ohio. Filed Sept. 18, 1920.

COLONIAL

Particular description of goods.—Salt.
Claims use since about Sept. 1, 1901.

Ser. No. 137,314. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JAMES B. DAY & CO., Chicago, Ill. Filed Sept. 18, 1920.

HONORBILT

Particular description of goods.—Paint-Brushes.
Claims use since about May 14, 1919.

Ser. No. 137,401. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GUSTIN WELCH, Niagara Falls, N. Y. Filed Sept. 20, 1920.



Particular description of goods.—Inhalers.
Claims use since about 1914.

Ser. No. 137,416. (CLASS 42. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Sept. 21, 1920.

Clouds O' Glory

Particular description of goods.—Ribbons and Silk and Satin Piece Goods.
Claims use since the 15th day of September, 1920.

Ser. No. 137,524. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK KNAB, Chicago, Ill. Filed Sept. 28, 1920.



Particular description of goods.—Cream-Powder for Making Custards and Puddings.
Claims use since Sept. 1, 1920.

Ser. No. 137,732. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) INTERNATIONAL MFG. CO., Phillips, Me. Filed Sept. 29, 1920.

SQUARE DEAL

Particular description of goods.—Toothpicks.
Claims use since July 18, 1920.

Ser. No. 137,749. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE STANDARD SANITARY SPECIALTIES COMPANY, INC., Jersey City, N. J. Filed Sept. 29, 1920.

VEGOCO

Particular description of goods.—Shaving-Cream to be Used Before Shaving.
Claims use since February, 1920.

Ser. No. 137,880. (CLASS 39. CLOTHING.) PH. N. GLADSTONE CORP., New York, N. Y. Filed Oct. 4, 1920.



THE PREMIER PETTICOAT

The use of the word "Petticoat" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Petticoats and Pantalettes.
Claims use since Jan. 1, 1920.

Ser. No. 137,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID GIRARD, Detroit, Mich. Filed Oct. 5, 1920.



The trade-mark consists of my photograph.
Particular description of goods.—Medicinal Preparation for Piles, Hemorrhages of the Bowels, Boils and Carbuncles, Diarrhea, and Gout.
Claims use since Sept. 21, 1920.

Ser. No. 137,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE COTTON OIL MILLS, Los Angeles, Calif. Filed Oct. 5, 1920.

Richenol

Particular description of goods.—Cotton-Seed Oils for Cooking Purposes and Solidified Fats for Food Purposes.
Claims use since Aug. 4, 1920.

Ser. No. 137,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. BAXTER HAYMORE, Macon, N. C. Filed Oct. 5, 1920.

HI-MO-LINE

Particular description of goods.—An Antiseptic Solution for Use in the Treatment of Irritation and Inflammation of the Mouth, Nose, and Throat and as a Mouth-Wash.
Claims use since Dec. 1, 1919.

Ser. No. 137,970. (CLASS 39. CLOTHING.) JOHN B. SIMPSON, Philadelphia, Pa. Filed Oct. 5, 1920.

Simpson

The mark is the facsimile of the signature of the applicant.
Particular description of goods.—Coats, One or Two Piece Dresses, Overskirts, and Underskirts for Women and Misses; Bloomers and Blouses for Girls; Coats, Blouses, and Trousers for Boys.
Claims use since Apr. 1, 1906.

Ser. No. 138,164. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALAN R. FERGUSSON, Buffalo, N. Y. Filed Oct. 11, 1920.

RIST-O-LITE

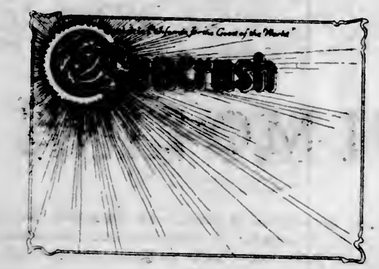
Particular description of goods.—Flashlights, Electric Hand-Signals, and Electric-Signal Holders. The signals in connection with which the trade-mark is used are particularly adapted to be carried on the wrist or back of the hand, preferably as traffic-signaling devices.
Claims use since the 27th day of September, 1920.

Ser. No. 138,205. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHARLES ARLINGTON BARNES, Leominster, Mass. Filed Oct. 12, 1920.

GOLDEN BEAUTY

Particular description of goods.—Pocket-Combs, Fine Combs, Barbers' Combs, and Men's and Women's Dressing-Combs.
Claims use since July 15, 1920.

Ser. No. 138,211. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA CRUSHED FRUIT CO., Los Angeles, Calif. Filed Oct. 12, 1920.



The legend "Crushed in California for the Good of the World" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Non-Alcoholic Beverages Made from Citrus Fruits.
Claims use since Sept. 20, 1920.

Ser. No. 138,310. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) A. W. WAUGH FRUIT CO., Wilmington, Del., and Brooklyn, N. Y. Filed Oct. 14, 1920.

APPLE BLOSSOM

Particular description of goods.—Unfermented Cider.
Claims use since Sept. 2, 1920.

Ser. No. 138,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BATTERTON COFFEE CO., Birmingham, Ala. Filed Oct. 15, 1920.



No claim is made for the words "Batterton's Baking Powder" apart from the mark shown in the drawing.
Particular description of goods.—Baking-Powder.
Claims use since Sept. 15, 1920.

Ser. No. 138,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZACHARY HESTER, Chicago, Ill. Filed Oct. 15, 1920.

ZIM-ZIM

Particular description of goods.—Medicine for the Treatment of Lungs.
Claims use since Aug. 1, 1919.

Ser. No. 138,342. (CLASS 31. FILTERS AND REFRIGERATORS.) REMINGTON MACHINE COMPANY, Wilmington, Del. Filed Oct. 15, 1920.



Particular description of goods.—Ice-Making and Refrigerating Machinery.
Claims use since November, 1895.

Ser. No. 138,345. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Oct. 15, 1920.

GLAD-HAND NAIL BRUSHES

No claim being made to the exclusive use of the words "Nail Brushes" apart from the mark shown in the drawing.
Particular description of goods.—Nail-Brushes.
Claims use since Sept. 24, 1920.

Ser. No. 138,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM N. EDENFIELD, Atlanta, Ga. Filed Oct. 16, 1920.

Eden-Oil

Particular description of goods.—Mineral Oil for Treatment of the Intestines.
Claims use since Aug. 30, 1920.

Ser. No. 138,393. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EST. HENRY C. MINER, INC., New York, N. Y. Filed Oct. 16, 1920.



Particular description of goods.—Face-Powders, Rice Powders, Sachet-Powders, Talcs, Face-Creams, Cold-Creams, Perfumes, Toilet Waters, Rouges, Rouge Compacts, Hair-Tonics, Hair-Lusters, Hair-Colorings, Facial Paints, Dentifrices, Tooth-Powders, Nail-Polishes, and Deodorizing Preparations.
Claims use since 1918.

Ser. No. 138,442. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. H. JAMESON, Corona, Calif. Filed Oct. 18, 1920.

Justrite

Particular description of goods.—Fresh Oranges, Lemons, Grapefruit, and Tangerines.
Claims use since early in the year 1906.

Ser. No. 138,502. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE LINDENBURG PIANO COMPANY, Columbus, Ohio. Filed Oct. 19, 1920.

"ADAPTO"

Particular description of goods.—Piano-Player Actions.
Claims use since August, 1920.

Ser. No. 138,510. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OGDEN BAKING COMPANY, Ogden, Utah. Filed Oct. 19, 1920.



Particular description of goods.—Bread.
Claims use since Mar. 9, 1920.

Ser. No. 138,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ECONOMIC MATERIALS CO., Chicago, Ill. Filed Oct. 20, 1920.

EMCO

Particular description of goods.—A Mixture of Various Mineral Salts and Organic Substances Having the Effect of Hardening Water and Acting as a Yeast Food, Thereby Stimulating the Propagation of Yeast Employed in the Fermentation of Doughs.
Claims use since May, 1919.

Ser. No. 138,612. (CLASS 39. CLOTHING.) WESTERN DRY GOODS CO., Seattle, Wash. Filed Oct. 20, 1920.

Farwest

Particular description of goods.—Flannel Shirts, Men's and Boys' Pajamas and Night-Shirts, Women's and Children's Nightgowns, Ladies' Dresses and Aprons, Supporters, and Suspenders.
Claims use since Sept. 15, 1904.

Ser. No. 138,779. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW ENGLAND LABORATORY CO., Lynn, Mass. Filed Oct. 25, 1920.

Must-a-rub

The word "Must-a-Rub."
Particular description of goods.—A Mustard-Iodin Compound, a Counter-Irritant Indicated for Treatment of Colds, Lung Congestion, Bronchitis, Croup, Pains, Sore Muscles, Pleurisy, Neuritis, Neuralgia; Rheumatism, Asthma, Headache, and Kindred Ailments.
Claims use since May 10, 1920.

Ser. No. 138,863. (CLASS 15. OILS AND GREASES.) LIBERTY OIL COMPANY, LIMITED, New Orleans, La. Filed Oct. 27, 1920.

Liberty

Particular description of goods.—Gasolene, Kerosene, Lubricating Oils and Greases.
Claims use since July 28, 1910.

Ser. No. 138,932. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) VANDERVOORT BROTHERS, INCORPORATED, Buffalo, N. Y. Filed Oct. 28, 1920.

VB

Particular description of goods.—Finger-Rings.
Claims use since Oct. 1, 1920.

Ser. No. 139,009. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 30, 1920.

ROSEDOWN

Particular description of goods.—Diaper-Flannel in the Piece.
Claims use since Sept. 17, 1920.

Ser. No. 139,018. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIMEON C. ALLEN, Rochester, N. Y. Filed Nov. 1, 1920.

BARELIFT

No claim being made to exclusive use of the representation of the tool itself apart from the mark shown by the drawing.
Particular description of goods.—Tools for Handling Casks, &c., Tools in the Form of Bars Having One End Provided with a Head Adapted for Handling Casks, &c., by Their Chines, Rims, or Edges.
Claims use since Sept. 29, 1920.

Ser. No. 139,023. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONE COMPANY OF AMERICA, New York, N. Y. Filed Nov. 1, 1920.



Disclaimer is hereby entered to the pictorial representation of the goods and also to the words "Pure Cake" apart from the other features of the mark shown in the drawing.
Particular description of goods.—Ice-Cream Cones.
Claims use since Oct. 21, 1920.

Ser. No. 139,095. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SCHWEPPES, LIMITED, London, England. Filed Nov. 2, 1920. Under ten-year proviso.

SCHWEPPES

Particular description of goods.—Mineral Waters.
Claims use since the year 1890.

Ser. No. 139,113. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC HEAT UNIT CO., St. Louis, Mo. Filed Nov. 3, 1920.

GASOMIZER

Consists of the word "Gasomizer."
Particular description of goods.—Electric Heating Apparatus for Heating Fluids.
Claims use since Sept. 10, 1920.

Ser. No. 139,127. (CLASS 39. CLOTHING.) OGUS, RABINOVICH & OGUS CO., Chicago, Ill. Filed Nov. 3, 1920.

Mlle. Aileen

Particular description of goods.—Hats for Women and Children.
Claims use since Oct. 15, 1920.

Ser. No. 139,150. (CLASS 38. PRINTS AND PUBLICATIONS.) CHICAGO ATHLETIC ASSOCIATION, Chicago, Ill. Filed Nov. 4, 1920.

The Cherry Circle

Particular description of goods.—Monthly Publication—*The Cherry Circle.*
Claims use since June, 1894.

Ser. No. 139,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. N. CLARK CO., Rochester, N. Y. Filed Nov. 5, 1920.

WELFARE

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since July 1, 1915.

Ser. No. 139,204. (CLASS 39. CLOTHING.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed Nov. 5, 1920.

CREST BRAND Filene

No registration rights are claimed for the word "Brand" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Leather and Fabric Gloves, Underwear of Knitted and Textile Fabrics; One, Two, and Three Piece Garments for Men, Women, and Children; Neckties, Cravats, and Knit Scarfs, Hosiery, Waists, Petticoats, Corsets, Coats, Walking-Skirts, Dresses, Shoes of Leather, Rubber, Fabric, and Combinations.
Claims use since Sept. 9, 1907.

Ser. No. 139,211. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERICH KUEMANN, New York, N. Y. Filed Nov. 5, 1920.

DELGRA BRAND

No claim being made to the exclusive use of the word "Brand" apart from the mark as shown on the drawing.
Particular description of goods.—Orange Marmalade, Grapefruit Marmalade, Apricot Jam, Raspberry Jam, Pineapple Jam, Peach Jam, Grape Jam, Red-Currant Jam, Strawberry Jam, Plum Jam, Cherry Jam, Quince Jam, Damson Jam, Black-Currant Jam, Blackberry Jam, Raspberry and Currant Jam, Raspberry Syrup, Cherry Syrup, Crab-Apple Jelly, Red-Currant Jelly, Pure Grape Jelly, Raspberry Vinegar; Pflaumen Mus, (a Jam Made with Prunes and Granulated Sugar;) Koked Lingon, (a Preserve Made with Imported Wild Cranberries and Granulated Sugar;) Preisselbeeren, (a Preserve Made with Imported Wild Cranberries and Granulated Sugar;) "Cranbo" Preserves, Pure Quince Jelly, Sour Spiced Plums; Senfgurken, (Cucumbers Pickled with Vinegar and Mustard-Seeds and other Spices;) Pure Mayonnaise; Ochsenmaul Salat, (Ox-Mouth Cooked and Pickled with Vinegar and Spices;) Pickled Mussels, Peanut-Butter, Queen Olives; Sweet Relish, (Finely-Cut Vegetables Seasoned with Granulated Curry and other Spices;) Salad-Oil, Chow-Chow, and Pickled Beets.
Claims use since Aug. 5, 1920.

Ser. No. 139,303. (CLASS 10. FERTILIZERS.) THE PACIFIC GUANO & FERTILIZER COMPANY, Honolulu, Territory of Hawaii. Filed Nov. 6, 1920.

BIRD MARK

No claim is made to exclusive use of the word "Mark" apart from the mark shown on the drawing.
Particular description of goods.—Fertilizers.
Claims use since May 26, 1920.

Ser. No. 139,401. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KLISS CANDY COMPANY, Washington, D. C. Filed Nov. 9, 1920.

Kliss

Particular description of goods.—Chocolates and Bonbons.
Claims use since March, 1917.

Ser. No. 139,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WICHITA MILL AND ELEVATOR COMPANY, Wichita Falls, Tex. Filed Nov. 9, 1920.



The heart and the words "Wheat Heart" are colored for red and the portion above and partially embracing the heart is colored for blue.

Particular description of goods.—Wheat-Flour.

Claims use since Oct. 1, 1920.

Ser. No. 139,483. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 10, 1920.

WHITE SQUADRON

Particular description of goods.—Middy-Cloth in the Piece.

Claims use since Aug. 2, 1920.

Ser. No. 139,560. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN TAP AND DIE CO., Greenfield, Mass. Filed Nov. 12, 1920. Under ten-year proviso.

NICHOLS BROS.
GREENFIELD, MASS.

Particular description of goods.—Cleavers.

Claims use since on or about Jan. 1, 1893.

Ser. No. 139,726. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE A. WYETH, New York, N. Y. Filed Nov. 16, 1920.

Clean Tops

Particular description of goods.—Bottle-Openers and Bottle-Cap Removers.

Claims use since Oct. 15, 1920.

Ser. No. 139,756. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 17, 1920.

FLOTILLA

Particular description of goods.—Cotton Serge in the Piece.

Claims use since Sept. 30, 1920.

Ser. No. 139,757. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 17, 1920.

Engineer

Particular description of goods.—Chambray in the Piece.

Claims use since Sept. 22, 1920.

Ser. No. 139,795. (CLASS 39. CLOTHING.) FRENCH AMERICAN IMPORT CO., Boston, Mass. Filed Nov. 18, 1920.

L'AIGLON

Particular description of goods.—Shoes of Leather and of Leather and Fabric.

Claims use since July 1, 1920.

Ser. No. 139,850. (CLASS 5. ADHESIVES.) GEORGE W. COLLINS, Wilmington, Del. Filed Nov. 19, 1920.

COLLINS'
RAPPID-SEALER



The portrait in the drawing being that of George W. Collins, the registrant. No claim is made for the purpose of this registration, but without waiving any common-law right thereto, to the words "Rapid Sealer" or to the representation of the tire and rim apart from the mark shown in the drawing.

Particular description of goods.—Tire-Repair Composition.

Claims use since September, 1913.

Ser. No. 139,876. (CLASS 39. CLOTHING.) M. AUERBACH & SONS, New York, N. Y. Filed Nov. 20, 1920.

AUERBACH

Particular description of goods.—Men's Silk Shirts.

Claims use since Sept. 1, 1920.

Ser. No. 139,891. (CLASS 11. INKS AND INKING MATERIALS.) ILLINOIS CARBON & RIBBON CO., INC., Chicago, Ill. Filed Nov. 20, 1920.

GOLD SEAL

Particular description of goods.—Carbon-Paper.

Claims use since Oct. 1, 1919.

Ser. No. 140,007. (CLASS 39. CLOTHING.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Nov. 23, 1920.

MERITAS

Particular description of goods.—Felt Bootees and Slippers.

Claims use since Oct. 1, 1920.

Ser. No. 140,044. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LANGHOFF BROS. CO., New Orleans, La. Filed Nov. 23, 1920.

REEL



Particular description of goods.—Syrups and Molasses for Table Use.

Claims use since August, 1914.

Ser. No. 140,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN BENITO COUNTY CANNING CO., Hollister, Calif. Filed Nov. 23, 1920.

AMERICAN FAMILY

Particular description of goods.—Canned Fruits and Canned Vegetables.

Claims use since Apr. 10, 1920.

Ser. No. 140,107. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 24, 1920.

"Cherokee"

Particular description of goods.—Finished Marble.

Claims use since 1885.

Ser. No. 140,109. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 24, 1920. Under ten-year proviso.

"Kennesaw"

Particular description of goods.—Finished Marble and Cut Stone.

Claims use since 1885.

Ser. No. 140,252. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHESHIRE KITCHENS, INC., Dover, Del., and New York, N. Y. Filed Nov. 27, 1920.



The geographical word "Cheshire" and the descriptive word "Products," being incapable of exclusive appropriation, are hereby disclaimed except in asociation with the other features of the mark shown on the drawing submitted with the application herein.

Particular description of goods.—Dehydrated Welsh Rabbit.

Claims use since August, 1920.

Ser. No. 140,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES R. DE BEVOISE CO., Newark, N. J. Filed Nov. 27, 1920.

Bandette

Particular description of goods.—Broad Silks, Satins, Cotton, and Linen Piece Goods.

Claims use since Sept. 15, 1920.

Ser. No. 140,255. (CLASS 39. CLOTHING.) CHARLES B. DE BEVOISE CO., Newark, N. J. Filed Nov. 27, 1920.

Bandette

Particular description of goods.—Corsets, Corset-Covers, Brassières, and Waists.
Claims use since Sept. 15, 1920.

Ser. No. 140,265. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

GOLD SHIELD



Particular description of goods.—Cheviots in the Piece.
Claims use since the year 1918.

Ser. No. 140,267. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

SUNSHINE

Particular description of goods.—Awning-Stripes in the Piece.
Claims use since Nov. 6, 1916.

Ser. No. 140,270. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

FIELDCREST



Particular description of goods.—Mosquito-Netting in the Piece.
Claims use since the year 1918.

Ser. No. 140,282. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

FIELD CREST



Particular description of goods.—Long-Cloth in the Piece.
Claims use since April, 1918.

Ser. No. 140,291. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

PULLAWAY



Particular description of goods.—Sheets, Pillow-Cases, and Sheeting.
Claims use since the year 1910.

Ser. No. 140,293. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

"LITTLE PHIL"
SHERIDAN L·L

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1906.

Ser. No. 140,294. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

BIG 4 L L

Particular description of goods.—Muslin in the Piece.
Claims use since Apr. 1, 1918.

Ser. No. 140,295. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

Westwego

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1912.

Ser. No. 140,296. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

ADMIRAL

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1900.

Ser. No. 140,299. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.



DAISY

Particular description of goods.—Muslin in the Piece and Pillow-Cases.
Claims use since the year 1908.

Ser. No. 140,300. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

CANOE

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1900.

Ser. No. 140,301. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

HARVEST MOON

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1906.

Ser. No. 140,303. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.



DOROTHY

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1900.

Ser. No. 140,306. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

OLDEN DAYS

Particular description of goods.—Muslin in the Piece.
Claims use since the year 1906.

Ser. No. 140,307. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

JOHN BROWN

R

Particular description of goods.—Muslin in the Piece.
Claims use since Jan. 16, 1918.

Ser. No. 140,521. (CLASS 39. CLOTHING.) COHEN, ENDEL & CO., New York, N. Y. Filed Dec. 2, 1920.



Particular description of goods.—Boys' Suits.
Claims use since Oct. 19, 1920.

Ser. No. 140,532. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JAMES J. JOHNSON, Chicago, Ill. Filed Dec. 2, 1920.

Ventlite

Particular description of goods.—Photographers' Electrical-Lighting Equipment, Including Electric Lamps, Reflectors for Said Lamps, Stands and Supports for Said Lamps and Reflectors, Cord for Use in Connection with Said Lamps, Diffusing-Screens for Use with Said Lamps, and Cabinets for Use with Said Lamps.
Claims use since about September, 1917.

Ser. No. 140,609. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PINGO COMPANY, Cambridge, Mass. Filed Dec. 4, 1920.

PINGO SHINE

STOVWAX

No claim is made to the word "Stovwax" apart from the mark shown in the drawing.

Particular description of goods.—Preparation for Blacking and Dressing Iron Surfaces.

Claims use since Nov. 1, 1920.

Ser. No. 140,610. (CLASS 39. CLOTHING.) ROSEMARK DRESSES, New York, N. Y. Filed Dec. 4, 1920.

ROSEMARK DRESSES

The use of the word "Dresses" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Ladies' Dresses.

Claims use since Nov. 1, 1920.

Ser. No. 140,649. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HUNTINGTON & GUERRY INC., Greenville, S. C. Filed Dec. 6, 1920.

HUNTINGTON & GUERRY TROUBLE PROOF ELECTRICAL INSTALLATIONS

No exclusive right is claimed for the words "Trouble Proof" and "Electrical Installations" except as associated with the other features of the mark.

Particular description of goods.—Electric Switchboards, Electric Switches, Electric Generators, Electric Transformers, Electric Furnaces, Electric Heaters, Electric Motors, Electric Switch-Boxes, Electric Batteries, Electric Bells, Electric Fuses, Electric Lights and Wiring for Same, and Electric Heating Systems and Power Systems and Wiring for Same, Electric Insulators, and Electric Fuses.

Claims use since about the 1st of January, 1916.

Ser. No. 140,650. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ILLINOIS WATCH CASE COMPANY, Elgin, Ill. Filed Dec. 6, 1920.

CICO

Particular description of goods.—Watch-Movements.

Claims use since the month of April, 1916.

Ser. No. 140,708. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CHOCOLATE SHOPS, INC., Los Angeles, Calif. Filed Dec. 7, 1920.

NAVAJO BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Candy.

Claims use since Oct. 25, 1920.

Ser. No. 140,722. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) C. LUDWIG HEIMBRUCH, New York, N. Y. Filed Dec. 7, 1920.



Particular description of goods.—Buttons.

Claims use since July 1, 1878.

Ser. No. 140,728. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISRAEL ORCHARD CO., Dayton, Wash. Filed Dec. 7, 1920.

SUNNY BROOK

Particular description of goods.—Fresh Apples.

Claims use since Oct. 6, 1920.

Ser. No. 140,803. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RATON CREAMERY COMPANY, Raton, N. Mex. Filed Dec. 8, 1920.



Particular description of goods.—Pure Creamery-Butter.

Claims use since Oct. 30, 1920.

Ser. No. 140,830. (CLASS 38. PRINTS AND PUBLICATIONS. FORD MOTOR COMPANY, Highland Park, Mich. Filed Dec. 9, 1920.

Ford News

Particular description of goods.—Periodical House Organ Published Semimonthly.

Claims use since Nov. 1, 1920.

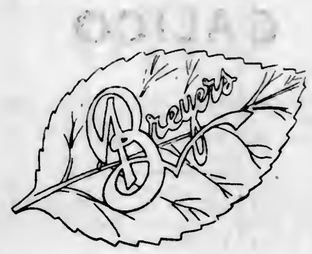
Ser. No. 140,843. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MEYER & STÜDELI, SOCIÉTÉ ANONYME, Soleure, Switzerland. Filed Dec. 9, 1920.

ROAMER

Particular description of goods.—Watches, Clocks, and Parts Thereof.

Claims use since the 21st of April, 1908.

Ser. No. 140,856. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BREYER ICE CREAM COMPANY, Philadelphia, Pa. Filed Dec. 10, 1920.



Particular description of goods.—Ice-Cream.

Claims use since May, 1912.

Ser. No. 140,903. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE STONE FIZZ COMPANY OF AMERICA INC., Chattanooga, Tenn. Filed Dec. 10, 1920.

Stone Fizz

Particular description of goods.—Non-Alcoholic, Malt-less Beverages Sold as Soft Drinks.

Claims use since about July 21, 1920.

Ser. No. 140,940. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) W. T. GRANT CO., New York, N. Y. Filed Dec. 11, 1920.

BELL RECORD

No claim being made to the exclusive use of the word "Record" nor to the words "A Bell Like Tone" apart from the mark as shown in the drawing.

Particular description of goods.—Phonograph and Talking-Machine Records.

Claims use since Nov. 23, 1920.

Ser. No. 141,143. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass. Filed Dec. 15, 1920. Under ten-year proviso.

IMPROVED

Particular description of goods.—Die-Holders, Screw-Plate Guides, Screw-Plates, and Screw-Plate Stocks.

Claims use since 1892.

Ser. No. 141,234. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAASS & KEMPER, INCORPORATED, Baltimore, Md. Filed Dec. 17, 1920.

MERSER MAASS & KEMPER

Particular description of goods.—Cotton Wash Goods Comprising Piece Goods, Both Plain and Fancy, Made in Whole or Part of Cotton, Mercerized, or Linen Thread; Wool Dress Fabrics in the Piece Comprising Also Cotton and Wool Mixed Goods, Scarfs and Shams and Decorative Art-Linens; Household Linens Comprising Napkins, Doilies, Towels, Bedspreads, Table-Cloths Made of Cotton, Linen, Cotton and Linen Mixed, or Mercerized Yarns, Also Ramie; Draperies Comprising Cretonnes, Scrims, Printed Marquisettes, Also Overdrapes, Cotton Nets; Handkerchiefs Comprising Men's, Children's, and Ladies', of Cotton, Silk, Linen, or Mixed Yarns; Nets, Brussels Nets, Dress-Nets of Cotton, Silk, or Cotton and Silk, Also Artificial Silk, All in the Piece; Veilings in the Piece, Hair-Nets; Silks in the Piece Comprising Messalines, Taffetas, Crêpe de Chines; Satins in the Piece; Silk and Cotton Mixed Fabrics in the Piece and Fabrics Composed of Silk, Artificial Silk, Mercerized Yarns, or Fancy Yarns; Velvets, Corduroys, Plushes, Velveteens, and Pile Fabrics, Laces; Embroideries, (Voiles, Organdies, Fancy Fabrics,) and Ribbons, All in the Piece.

Claims use since Oct. 22, 1920.

Ser. No. 141,248. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ANGORA SPECIALTY CO. INC., Brooklyn, N. Y. Filed Dec. 18, 1920.

SCOTWEED

Consisting of the word "Scotweed."

Particular description of goods.—Woolen Piece Goods.

Claims use since Sept. 15, 1920.

Ser. No. 141,278. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL FEED & MILLING CO., Memphis, Tenn. Filed Dec. 18, 1920.

MAN-O-WAR



The lining being lined to indicate green and red.
Particular description of goods.—Stock Feed.
Claims use since the 27th day of November, 1920.

Ser. No. 141,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE COTTON OIL MILLS, Los Angeles, Calif. Filed Dec. 21, 1920.

A1 BRISQ

No claim is made to exclusive use of "A-1" apart from the mark shown in the drawing.
Particular description of goods.—Vegetable Compound for Shortening and Cooking Purposes.
Claims use since Nov. 10, 1920.

Ser. No. 141,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOVE AND KOPIS CANDY CO., West Allis, Wis. Filed Dec. 23, 1920.



Particular description of goods.—Candy.
Claims use since Nov. 26, 1920.

Ser. No. 141,465. (CLASS 12. CONSTRUCTION MATERIALS.) MASSEY CONCRETE PRODUCTS CORPORATION, Chicago, Ill. Filed Dec. 23, 1920.

HOLLOWSPUN

Particular description of goods.—Concrete Poles.
Claims use since Dec. 10, 1920.

Ser. No. 141,484. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLING & COMPANY, Indianapolis, Ind. Filed Dec. 24, 1920.

EG-NOG

Particular description of goods.—Candy—Namely, Chocolate-Bars.
Claims use since September, 1920.

Ser. No. 141,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLING & COMPANY, Indianapolis, Ind. Filed Dec. 24, 1920.

CALICO

Particular description of goods.—Candy—Namely, Chocolate-Bars.
Claims use since September, 1920.

Ser. No. 141,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLING & COMPANY, Indianapolis, Ind. Filed Dec. 24, 1920.

Cannon Balls

Particular description of goods.—Candy.
Claims use since March, 1918.

Ser. No. 141,488. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLING & COMPANY, Indianapolis, Ind. Filed Dec. 24, 1920.

Grape-Ola

Particular description of goods.—Candy—Namely, Chocolate-Bars.
Claims use since September, 1920.

Ser. No. 141,540. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SOUTHERN CALIFORNIA HARDWOOD AND MANUFACTURING COMPANY, Los Angeles, Calif. Filed Dec. 27, 1920.

Sequoia

Particular description of goods.—Phonographs, Phonograph-Record Ejectors, and Phonograph-Record Ejectors Mounted in Cabinets.
Claims use since about May 20, 1920.

Ser. No. 141,555. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARTER CHOCOLATE COMPANY, Boston, Mass. Filed Dec. 28, 1920.

Charter

The word "Charter."
Particular description of goods.—Candy.
Claims use since Nov. 4, 1919.

Ser. No. 141,615. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTFELDT BROTHERS, New Orleans, La. Filed Dec. 28, 1920.

oRo

Particular description of goods.—Coffee.
Claims use since 1902.

Ser. No. 141,631. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Dec. 29, 1920.

Moussetyne

Particular description of goods.—Woolen Piece Goods.
Claims use since Dec. 15, 1920.

Ser. No. 141,647. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OKLAHOMA JANITOR SUPPLY COMPANY, Tulsa, Okla. Filed Dec. 29, 1920.

"OJANCO"

Particular description of goods.—Sweeping Compounds.
Claims use since Feb. 21, 1920.

Ser. No. 141,650. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 29, 1920.

RESTA

Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 12, 1908.

Ser. No. 141,651. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 29, 1920.

Tudor

Particular description of goods.—Cotton Piece Goods.
Claims use since October, 1907.

Ser. No. 141,658. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE WOODWIND COMPANY, New York, N. Y. Filed Dec. 29, 1920.

MELIPHONE

Particular description of goods.—Mouthpieces and Reeds for Clarinets and Saxophones.
Claims use since about July, 1910.

Ser. No. 141,664. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) J. BERTHIAUME & CO., Spencer, Mass. Filed Dec. 30, 1920.



Particular description of goods.—Ginger-Ale and Ber-Cola, a Non-Alcoholic Cola Beverage Sold as a Soft Drink and Containing Less Than One-Half of One Per Cent. Alcohol, by Volume.
Claims use since Oct. 19, 1920.

Ser. No. 141,677. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GLOBE CLEANSING PRODUCTS CORPORATION, Paterson, N. J. Filed Dec. 30, 1920.

TIPPIT

Particular description of goods.—Powder Compound Soluble in Water, in Itself Non-Saponaceous, Used in Solution as a General Cleanser.
Claims use since Dec. 23, 1920.

Ser. No. 141,684. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands. Filed Dec. 30, 1920.

BIMETAL
M.Z.M.

Particular description of goods.—Paints, Whether White or Colored, in Powder, Paste, or Liquid Form.
Claims use since on or about the 1st of November, 1920.

Ser. No. 141,689. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC RICE GROWERS ASSOCIATION, Sacramento, Calif. Filed Dec. 30, 1920.

CALI-SWEET

Particular description of goods.—Rice.
Claims use since Dec. 8, 1920.

Ser. No. 141,695. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH-FRANK PACKING CO., Sacramento, Calif. Filed Dec. 30, 1920.

GRILL

Particular description of goods.—Canned Fruits.
Claims use since November, 1919.

Ser. No. 141,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH-FRANK PACKING CO., Sacramento, Calif. Filed Dec. 30, 1920.

CUISINE

Particular description of goods.—Canned Fruits.
Claims use since June 20, 1919.

Ser. No. 141,702. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS-BODY COMPANY, San Francisco, Calif. Filed Dec. 30, 1920.

Titbits Brand

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 15, 1920.

Ser. No. 141,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VOGAN CANDY COMPANY, Portland, Oreg. Filed Dec. 30, 1920.

LUXOR

Particular description of goods.—Candy.
Claims use since Sept. 1, 1920.

Ser. No. 141,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WELLMAN-PECK & CO., San Francisco, Calif. Filed Dec. 30, 1920.



No claim is made to exclusive use of the term "Quality for 70 years" apart from the mark on the drawing.
Particular description of goods.—Canned Fruits, Canned Vegetables, Coffee, Tea, Breakfast Cereals, Corn-Starch, Food-Flavoring Extracts, Raisins, Olives, Olive-Oil, Pickles, Vinegar, Catsup, Table-Syrup, Molasses, Mustard, and Spices.
Claims use since Nov. 2, 1920.

Ser. No. 141,786. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. M. LEVOR & CO., New York, N. Y. Filed Jan. 3, 1921.

SAMALONE

Particular description of goods.—Silk Piece Goods and Cotton Piece Goods.
Claims use since July 1, 1920.

Ser. No. 141,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER PAUL CANDY MFG. CO., INC., New Haven, Conn. Filed Jan. 3, 1921.

MOUNDS

Particular description of goods.—Candy.
Claims use since May 1, 1920.

Ser. No. 141,812. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STOLL FILM CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 3, 1921.



Particular description of goods.—Motion Pictures.
Claims use since Oct. 9, 1920.

Ser. No. 141,822. (CLASS 38. PRINTS AND PUBLICATIONS.) APPLE HAT COMPANY, St. Louis, Mo. Filed Jan. 4, 1921.



Particular description of goods.—Periodical Published Semi-Annually.
Claims use since August, 1919.

Ser. No. 141,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. A. DREYFUS CO., New York, N. Y. Filed Jan. 6, 1921.

PALOJA

Particular description of goods.—Gum Used in the Manufacture of Chewing-Gum.
Claims use since 1910.

Ser. No. 141,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH & SONS, New York, N. Y. Filed Jan. 7, 1921.



Particular description of goods.—Chocolates.
Claims use since Oct. 1, 1920.

Ser. No. 141,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y. Filed Jan. 8, 1921.



Applicant disclaims the descriptive word "Flour" apart from the other features of the mark.
Particular description of goods.—Wheat-Flour.
Claims use since Aug. 3, 1920.

Ser. No. 142,048. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRENTON ELECTRIC & CONDUIT CO., Trenton, N. J. Filed Jan. 10, 1921.

TECCO

Particular description of goods.—Fuse-Plugs, Electric Switches, Cut-Outs, Electric Receptacles, Rosettes, and Ground-Clamps.
Claims use since about August, 1918.

Ser. No. 142,133. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JAMES R. COUNCIL, Norfolk, Va. Filed Jan. 12, 1921.

TINPLANT

Particular description of goods.—Root-Beer and Ginger-Ale.
Claims use since Dec. 1, 1920.

Ser. No. 142,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CHOCOLATE SHOPS, INC., Los Angeles, Calif. Filed Jan. 12, 1921.

SIERRA

Particular description of goods.—Chocolate Candy.
Claims use since Mar. 2, 1920.

Ser. No. 142,309. (CLASS 12. CONSTRUCTION MATERIALS.) WALDORF PAPER PRODUCTS COMPANY, St. Paul, Minn. Filed Jan. 15, 1921.

THERMOLATH

Particular description of goods.—Plaster-Board.
Claims use since Apr. 8, 1920.

Ser. No. 142,313. (CLASS 38. PRINTS AND PUBLICATIONS.) THE AMERICAN ART STUDENT PUBLISHING CO., New York, N. Y. Filed Jan. 17, 1921.

THE AMERICAN ART STUDENT

Said trade-mark consists of the words "The American Art Student," especially designed.
Particular description of goods.—Monthly Art-Magazine.
Claims use since September, 1916.

Ser. No. 142,346. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KILO ELECTRIC COMPANY, Indianapolis, Ind. Filed Jan. 17, 1921.

KILO

Particular description of goods.—Electric Socket-Switches, Electric Motors, Electric Switches, Electric Fuses, and Electric-Lamp Sockets.
Claims use since Jan. 7, 1921.

Ser. No. 142,362. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) REPUBLIC FLOW METERS CO., Chicago, Ill. Filed Jan. 17, 1921.

ECONOMETER

Particular description of goods.—Meters for Measuring the Flow of Liquids.
Claims use since Dec. 2, 1920.

Ser. No. 142,374. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) M. J. WOHL & CO., INC., New York and Long Island City, N. Y. Filed Jan. 17, 1921.

WOHLITE

The trade-mark consists of the word "Wohlite."
Particular description of goods.—Electric-Arc Lamps.
Claims use since Nov. 1, 1920.

Ser. No. 142,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB ROSENSTEIN, New York, N. Y. Filed Jan. 20, 1921.

DELICIA

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 12, 1920.

Ser. No. 142,555. (CLASS 38. PRINTS AND PUBLICATIONS.) A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa. Filed Jan. 21, 1921.

The AMERICAN WORKER

Particular description of goods.—Publications Issued Monthly.
Claims use since Jan. 3, 1921.

Ser. No. 142,587. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa. Filed Jan. 22, 1921.

REZISTAL

Particular description of goods.—Steel Bars, Rods, Billets, Blooms, Sheets, Plates, Slabs, Strips, Blocks, Forgings, and Castings.
Claims use since Dec. 4, 1920.

Ser. No. 142,910. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) R. CECIL SMITH, West Fort Lee, N. J. Filed Jan. 28, 1921.

The R. Cecil Smiths

Particular description of goods.—Motion-Pictures.
Claims use since Sept. 10, 1920.

Ser. No. 142,913. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WORCESTER PRESSED STEEL COMPANY, Worcester, Mass. Filed Jan. 28, 1921.

PRESTEEL

Particular description of goods.—Hot and Cold Rolled Strip-Steel.
Claims use since about Jan. 1, 1905.

Ser. No. 142,988. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

REGENT

Particular description of goods.—Babbitt Metal.
Claims use since as early as the year 1896.

Ser. No. 142,989. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

CRESCENT

Particular description of goods.—Babbitt Metal.
Claims use since as early as the year 1880.

Ser. No. 142,990. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

HOO-HOO

Particular description of goods.—Babbitt Metal.
Claims use since as early as the year 1894.

Ser. No. 142,991. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

REX

Particular description of goods.—Babbitt Metal.
Claims use since as early as the year 1896.

Ser. No. 142,992. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

TIGER

Particular description of goods.—Bearing Metal.
Claims use since as early as the year 1893.

Ser. No. 143,001. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PETRIUM SANITARY SINK CO., Berkeley, Calif. Filed Jan. 31, 1921.

PETRIUM

Particular description of goods.—Sinks and Washtrays.
Claims use since Jan. 1, 1917.

Ser. No. 143,553. (CLASS 38. PRINTS AND PUBLICATIONS.) FIDELITY NATIONAL BANK & TRUST CO., Kansas City, Mo. Filed Feb. 14, 1921.

FIDELITY SPIRIT

Particular description of goods.—A Magazine Published Monthly.
Claims use since October, 1914.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 5, 1921.

141,054. HAARLEM OIL FOR KIDNEY, LIVER, BLADDER, RHEUMATISM, AND URIC-ACID TROUBLES. GENUINE HAARLEM OIL MFG. CO., New York, N. Y.
Filed September 28, 1920. Serial No. 137,702. PUBLISHED NOVEMBER 30, 1920.

141,055. BEVERAGES CONTAINING FIFTY-FOUR PER CENT. MALT AND LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. PETER HAND COMPANY, Chicago, Ill.
Filed July 1, 1920. Serial No. 134,473. PUBLISHED NOVEMBER 23, 1920.

141,056. RUBBER AUTOMOBILE AND TRUCK TIRES AND INNER TUBES. ROMANJO TIRE COMPANY, Chicago, Ill.
Filed August 24, 1920. Serial No. 136,431. PUBLISHED NOVEMBER 23, 1920.

141,057. AUTOMOBILES AND MOTOR-TRUCKS. STANDARD STEEL CAR COMPANY, Pittsburgh, Pa.
Filed March 4, 1920. Serial No. 129,253. PUBLISHED NOVEMBER 23, 1920.

141,058. CANNED FISH. THLINKET PACKING CORPORATION, Portland, Oreg.
Filed August 24, 1920. Serial No. 136,440. PUBLISHED NOVEMBER 23, 1920.

141,059. CANNED FISH. THLINKET PACKING CORPORATION, Portland, Oreg.
Filed August 24, 1920. Serial No. 136,441. PUBLISHED NOVEMBER 23, 1920.

141,060. CANNED FISH. THLINKET PACKING CORPORATION, Portland, Oreg.
Filed August 24, 1920. Serial No. 136,442. PUBLISHED NOVEMBER 23, 1920.

141,061. CANNED FISH. THLINKET PACKING CORPORATION, Portland, Oreg.
Filed August 24, 1920. Serial No. 136,443. PUBLISHED NOVEMBER 23, 1920.

141,062. CANNED FISH. THLINKET PACKING CORPORATION, Portland, Oreg.
Filed August 24, 1920. Serial No. 136,445. PUBLISHED NOVEMBER 23, 1920.

141,063. WHEAT-FLOUR. WICHITA MILL & ELEVATOR COMPANY, Wichita Falls, Tex.
Filed December 16, 1919. Serial No. 126,157. PUBLISHED APRIL 27, 1920.

141,064. CERTAIN NAMED MEDICINAL PREPARATION. GRIFFITH ALVERSON CO., Mason City, Iowa.
Filed February 18, 1919. Serial No. 115,956. PUBLISHED MARCH 15, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE PRATT FOOD CO.

Decided September 6, 1920.

1. TRADE-MARKS—ABANDONED APPLICATION—ATTEMPT TO REVIVE AND CONVERT INTO APPLICATION UNDER NEW LAW—UNAVOIDABLE DELAY.

A petition accompanied by a filing fee of ten dollars to revive an application for the registration of a trade-mark filed under the Trade-Mark Act of 1905, which had become abandoned for failure to take in time an appeal from a final rejection, and to convert it into an application under the act of March 19, 1920, denied where no showing was made of unavoidable delay.

2. SAME—SAME—TRANSFER OF FEE FILED WITH PETITION TO REVIVE TO NEW APPLICATION.

Where a petition accompanied by a filing fee of ten dollars to revive an abandoned application filed under the Trade-Mark Act of 1905 is denied on account of lack of showing of unavoidable delay and a new application under the act of March 19, 1920, is filed, the fee accompanying the petition to revive may be transferred to the new application.

ON PETITION.

TRADE-MARK FOR FOOD, TONICS, REGULATORS, SUPPLIES, AND REMEDIES FOR HORSES, CATTLE, HOGS, ETC.

Mr. Geo. R. Hamlin for the applicant.

WHITEHEAD, *Commissioner:*

Petition is taken to revive this application and after revival to convert the same into an application under the act of March 19, 1920. A fee of ten dollars accompanies this petition to cover the new registration.

The petition makes no showing of unavoidable delay in not appealing from the final rejection of September 21, 1915. On the contrary, it discloses deliberate intention not to appeal within the year.

The petition is accordingly denied.

If a new application is filed under the act of March 19, 1920, the fee accompanying this petition may be transferred to the credit of the new case.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DE FOREST *v.* MILLER.

Decided January 3, 1921.

PATENTS—INTERFERENCE—INVENTION BY THIRD PARTY.

A party to an interference cannot defeat his opponent by showing that another party not a party to the proceeding was the real inventor, although the successful party might have to meet this question *ex parte* after the termination of the interference proceeding.

Mr. S. E. Darby for De Forest.

Mr. Leonard Day for Miller.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents in an interference proceeding awarding to appellee priority of invention, for a device described by the Commissioner as—

a system for producing musical tones, making use of an audion and a loud speaking telephone.

It is unnecessary to set out the counts of the issue, since we concur with the tribunals of the Patent Office on the questions of fact and conclusions thereon. Appellant, however, seeks to prevail upon the ground that it is shown by the record, as he contends, that appellee is not, in fact, the real inventor, but the invention which he here claims was made by a third person not a party to this proceeding. Without stopping to consider whether this contention is supported by the record, it is sufficient that it cannot here be raised. This proceeding can only settle the issue of priority as between the parties before the court, and appellant cannot defeat his opponent by showing that a party other than appellee was the real inventor. (*Foster* v. *Antisdel*, 14 App. D. C., 552; *Luellen* v. *Claussen*, 43 App. D. C., 444.)

Appellee, in the light of this record, may have difficulty in securing a patent, but that is a question to arise later between appellee as an applicant and the Commissioner of Patents. In that proceeding, however, appellant would have no standing to be heard. (*Foster* v. *Antisdel, supra.*)

The decision of the Commissioner of Patents is affirmed, and the clerk is directed to certify these proceedings as by law required.

Affirmed.

Court of Appeals of the District of Columbia.

DEWSON AND BROWN *v.* TOMLINSON.

Decided January 3, 1921.

PATENTS—INTERFERENCE ISSUE—COUNTS GIVEN THEIR BROADEST CONSTRUCTION.

Giving the counts of the interference issue the broadest interpretation of which they are susceptible, the

universal rule in interference cases, *Held* that T.'s disclosure is sufficient to sustain the issue, and priority awarded to him.

Mr. E. A. Wright and *Mr. H. A. Coombe* for Dewson and Brown.

Mr. F. T. Brown, *Mr. C. M. Nissen*, and *Mr. A. J. Crane* for Tomlinson.

ROBB, *J.:*

Appeal from concurrent decisions of the Patent Office tribunals in an interference proceeding awarding priority of invention to the senior party Tomlinson.

Of the four counts in issue, counts 1 and 4 are sufficiently illustrative and are here reproduced:

1. In a car coupling, the combination with a casing containing a plurality of fixed contacts connected to train line circuits, and a movable carrier having corresponding contact bars, of fluid pressure means for projecting said carrier to electrically connect the corresponding contacts of counterpart couplers, and a valve device for controlling the return movement of said carrier.

4. In a car coupling, the combination of a casing having an opening and containing electrical contacts connected to train line circuits, a movable carrier having corresponding contact bars, mechanism for projecting said carrier through said opening to electrically connect corresponding contacts of counterpart couplers, and a movable shutter for protecting said opening when said carrier is withdrawn.

No testimony has been taken, the contention of appellants being that the counts contain limitations not found in the Tomlinson disclosure. The tribunals of the Patent Office, in carefully prepared opinions, have ruled that, giving to the counts the broadest interpretation of which they are susceptible, the universal rule in interference cases, Tomlinson's disclosure is sufficient. We adopt this view and affirm the decision. (See *Brown* v. *Tomlinson*, 265 Fed., 460, April 5, 1920.)

Affirmed.

The decision of the Assistant Commissioner reads as follows:

COULSTON, *Assistant Commissioner:*

Dewson and Brown appeal from the decision of the Examiners-in-Chief affirming the decision of the Examiner of Interferences awarding priority of invention to Tomlinson.

The counts in issue are as follows:

1. In a car coupling, the combination with a casing containing a plurality of fixed contacts connected to train line circuits, and a movable carrier having corresponding contact bars, of fluid pressure means for projecting said carrier to electrically connect the corresponding contacts of counterpart couplers, and a valve device for controlling the return movement of said carrier.

2. In a car coupling, the combination with a casing containing a plurality of fixed contacts connected to train line circuits, and a movable carrier having corresponding contact bars, of fluid pressure means for projecting said carrier to electrically connect the corresponding contacts of counterpart couplers, and a manually controlled valve device for releasing fluid from said fluid pressure means to effect a return movement of said carrier.

3. In a car coupling, the combination with a casing containing a plurality of fixed contacts connected to train line circuits, and a movable carrier having corresponding contact bars, of fluid pressure means for projecting said carrier to electrically connect the corresponding contacts of counterpart couplers, a valve device for controlling the release movement of said carrier and a conduit establishing communication between said valve devices of the counterpart couplers.

4. In a car coupling, the combination of a casing having an opening and containing electrical contacts connected to train line circuits, a movable carrier having corresponding contact bars, mechanism for projecting said carrier through said opening to electrically connect corresponding contacts of counterpart couplers, and a movable shutter for protecting said opening when said carrier is withdrawn.

No testimony has been taken. The appellants are contending for priority on the sole ground that the counts contain limitations which are not found in the disclosure of Tomlinson. The first feature of this character relied on by Dewson and Brown is a limitation in the counts which requires that the contact-carriers be actuated to—

electrically connect the *corresponding* contacts of counterpart couplers.

In the Dewson and Brown construction there are two contacts on each coupler. When two of these couplers are in alinement, the respective contacts carried thereby—*i. e.*, the "corresponding" contacts identified with the same train-line circuits—are diagonally opposite each other. There are also contact-carriers on the respective couplers positioned opposite each other and so arranged that when one of them is projected forward actual physical as well as electrical contact is made with corresponding contacts on the opposite couplers. In Tomlinson's construction, on the other hand, four contacts on each coupler are connected in pairs. The contact-carriers are arranged diagonally opposite each other and not in direct alinement, and when one of these is projected it does not make actual physical contact with the contacts on the other, but it does establish an electrical connection with them. The electrical connection so established is between contacts or terminals belonging to the same train-line circuit. This is all that the language of the count requires, and I think that the tribunals below were right in holding that Tomlinson has a right to make these counts.

The second feature of construction relied on by Dewson and Brown to establish that Tomlinson has no right to make the claims is the valve for controlling the return of the projected contact-carrier to inoperative position called for in counts 1, 2, and 3. In Tomlinson's construction the valves 51 in the brake-pipe have been held to answer to the terms of the counts in issue. The appellants contend that this holding is erroneous because in order to operate the valves 51 to release the carriers it is necessary to cut off the stopcocks 50. This operation interrupts the action of the brake-circuit. It is urged that this construction cannot be regarded as the equivalent of the arrangement in the Dewson and Brown patent, in which claims corresponding to the counts were originally made. I think that this argument overlooks the scope of the counts, which are very broadly drawn. It seems to me that Tomlinson's construction answers the requirements.

The third point raised by Dewson and Brown refers to the movable shutter for protecting the contact-carrier in its casing when the carrier is withdrawn. In the appellants' device this shutter is automatically actuated upon movement of the carrier. In the case of the appellee the shutter is a swinging door, which has to be operated by hand to close the opening which contains the carrier. The appellants contend that the language of count 4—

a movable shutter for protecting said opening when said carrier is withdrawn—

implies an automatic action which characterizes the Dewson and Brown device. I do not agree that this contention is well taken.

It is urged that if a broader meaning such as would enable the counts to be read on the Tomlinson device is given the counts would be unpatentable in view of certain references called to attention. I have not looked into the question of patentability, as that is not properly raised at this time, but I understand that it has been carefully considered in connection with the motion for dissolution, and the counts have been found allowable over the prior art.

The decision of the Examiners-in-Chief is affirmed.

Court of Appeals of the District of Columbia.

HALBLEIB *v.* BENDIX AND CONRAD. SAME *v.* BENDIX, BIJUR, AND CONRAD. CONRAD *v.* BENDIX AND HALBLEIB. SAME *v.* BENDIX, BIJUR, AND HALBLEIB. BIJUR *v.* BENDIX, CONRAD, AND HALBLEIB. SAME *v.* BENDIX.

Decided February 7, 1921.

1. PATENTS—PRIORITY—ACTUAL REDUCTION TO PRACTICE—TEST.

Where an engine-starter was constructed by Bijur with a view to securing the business of the Packard Company and in 1912 was put on a car furnished by this company and tested, the result being that it broke frequently during the test, although witnesses claimed that it was successful, explaining that it was broken because purposely subjected to a destructive test, and immediately following the test the Packard Company adopted a different kind of starter, and the Bijur Company, although engaged in the business, did not put such construction on the market, but prepared in 1913 to supply a different device, and Bijur filed ten applications relating to starters, but made no attempt to commercialize the device tested until he saw an exhibit of his rival, *Held* that the conclusion must be drawn that the inventor himself did not regard the test in 1912 as successful and that it was no more than an abandoned experiment.

2. SAME—SAME—DILIGENCE—EXPERIMENTING TO PERFECT ONE FEATURE OF THE INVENTION.

Where Bendix conceived and disclosed the invention in 1910, and the record of the interference proceedings is replete with evidence of his activities in experimenting from March to November, 1913, when he filed his application, with one of the features of the invention to which the parties financing his operations made objections, *Held* that he is entitled to an award of priority over one later to conceive who reduced the invention to practice in May, 1913.

Mr. A. G. Davis and *Mr. J. Edgar Bull* for Bijur.

Mr. W. G. Carr, *Mr. O. S. Schaurer*, and *Mr. C. L. Sturtevant* for Conrad.

Mr. S. E. Hibben, *Mr. S. T. Cameron*, and *Mr. W. B. Kerkam* for Bendix.

Mr. Melville Church for Halbleib.

PATENT appeals Nos. 1,367, 1,368, 1,369, 1,370, 1,371, 1,372, 1,373, and 1,374.

VAN ORSDEL, *J.:*

These appeals grow out of a four-party interference, in which priority of invention was awarded generally to the party Bendix by each of the three tribunals of the Patent Office.

The application of Bijur was filed November 5, 1914; of Conrad, December 26, 1913; of Halbleib, May 28, 1913, and of Bendix, November 24, 1913. A patent was granted to Bendix January 12, 1915.

The issue is set forth in two counts, as follows:

1. An engine starter comprising, in combination with a member operatively connected with the engine, a motor, a driving member operated thereby and adapted to coöperate with and drive the other member but normally out of engagement therewith, means whereby relative movement between the motor and the driving member automatically moves the latter into driving engagement with the other member, and a yielding driving connection interposed between the motor and the driving member.

2. An engine starter comprising, in combination with a member operatively connected with the engine, a motor, a driving member operated thereby and adapted to coöperate with and drive the other member but normally out of engagement therewith, means whereby relative movement between the motor and the driving member automatically moves the latter into driving engagement with the other member, and a yielding clutch interposed between the motor and said driving member.

The invention relates to a transmission for an electric starting-motor for cranking an internal-combustion engine. Each of the interfering applications discloses a starter in which an electric motor rotates a screw-shaft on which a nut is mounted. The nut is so adjusted, either by a weight or spring, that it will not rotate until it advances along the shaft to the proper point where teeth on the nut engage teeth upon the flywheel of the gas-engine. When this occurs the nut is forced to rotate with the shaft and thus start the engine. The engine gear-wheel will then reversely rotate the pinion-nut on the screw-threaded shaft until it moves out of gear with the engine-wheel, thus leaving the engine in operation.

The first five cases may be treated in a single group, and turn solely upon issues of fact. The tribunals below being in accord upon the facts, manifest error must appear to justify a reversal. We will consider the parties in order.

Bijur relies wholly upon reduction to practice early in 1912. If this point is established, he must prevail. If not, he fails. He produced in court a starter (Exhibit No. 2) which meets the issues of this interference. He has unquestionably proven that this device was constructed and tested in the early part of 1912 on a Packard car which had been furnished by the Packard Company for that purpose. The witnesses testified that it worked successfully. While it appears that it broke frequently during the test, it is explained that this was caused by purposely subjecting it to destructive tests. If Bijur's succeeding conduct was such as to corroborate his proof of a successful test, reduction to practice could readily be inferred; but it was not.

Exhibit 2 was designed with a view of securing the business of the Packard Company. But immediately following the test of 1912 that company adopted a different kind of a starter. Though the Bijur Company was engaged in the business, they never put a device like Exhibit 2 on the market. In 1913, they prepared to supply the Vaughn Company with a starter which was different from the one in question. During this period of delay, Bijur, who was a prolific inventor, filed seventeen applications in the Patent Office, ten of which relate to starters, and all seem to have some relation to the art. Nowhere is it established that Bijur made any attempt to resurrect or commercialize his device as shown

by Exhibit 2, until Bendix's device was exhibited at an automobile show in January and February, 1914, where it is claimed Bijur saw it. A full description of the Bendix device was also published in the *Motor Age* at the same time.

From the foregoing facts, but one conclusion can be drawn—that Bijur himself did not regard the 1912 test a success. In the light of his conduct, the court cannot be called upon at this late date to give it a status which the inventor did not attribute to it at the time. The conclusion reached by the tribunals below that what Bijur did in 1912 resulted only in an abandoned experiment must, in view of his subsequent conduct, be accepted as correct.

With Bijur eliminated from the controversy, we will now consider the cases of the remaining interferants. The party Halbleib took no testimony, but stands upon his filing date, May 28, 1913. Conrad is accorded a date of conception and reduction to practice in May, 1913. Bendix has clearly proven conception and disclosure as early as 1910. To entitle him to prevail, it must appear that he was exercising diligence just before Conrad and Halbleib came into the field in May, 1913.

While Bendix claims that he reduced his invention to practice in the fall of 1912 in what is known as his Nashville machine, it is unnecessary to consider this test in detail, since we think from this date until he filed one year later he was at no time lacking in diligence. In 1912 he became associated with parties who financed his operations until the end in 1913. It appears that these parties objected to the use of the spring which interfered to some extent with the speedy development of the invention. He states that, out of consideration for the views of his associates, he was delayed to some extent in developing the spring feature of the invention. But the record is replete with evidence of his activities in experimenting with springs from March to November, 1913. It may be suggested that the discouragement Bendix encountered from his financial backers emanated from a view commonly held at that time by mechanicians in respect of the use of the spring in connection with the screw-shaft to establish a "yielding driving connection" or a "yielding clutch."

Coming to the remaining three cases which involve features of the general invention in issue, the contest is limited to the parties Bijur and Bendix. The issues in these cases relate to details which exclude the devices of Conrad and Halbleib. But they are clearly as readable on the Bendix invention as on the Bijur 1912 device, and since Bijur has failed to establish his right to priority over Bendix by reason of his failure to reduce to practice in 1912, he cannot prevail in the present cases.

The decisions of the Commissioner of Patents awarding priority of invention to the party Bendix in all of the cases is, therefore, affirmed.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Ohio.) The Scherer patent, No. 729,964, claims 1, 3, 8–10, for a machine for cutting irregular shapes of sheet metal, *Held* invalid in view of the prior art; but claims 2, 4–7, which included as an element a secondary guiding means not found in the prior art, *Held* valid and infringed. *Excelsior Steel Furnace Co.* v. *Williamson Heater Co.*, 269 Fed. Rep., 614.

(U. S. C. C. A. Ohio.) The Patterson patent, No. 950,341, for a method of treating metal pipes for use as conduits for electric wires, claim 1 *Held* void for lack of invention in view of the prior art and also for prior public use. *Enameled Metals Co.* v. *Western Conduit Co. et al.*, 269 Fed. Rep., 620.

(U. S. C. C. A. Ohio.) The McIlroy patent, No. 1,120,731, for a process of treating conduit-pipes by providing a sleeve of paper or other fragile material for the threaded portion of the pipe and couplings to protect the threads during the enameling process and prevent their being filled with enamel and the resulting product of such process, *Held* void for lack of invention and for prior use. *Enameled Metals Co.* v. *Western Conduit Co. et al.*, 269 Fed. Rep., 620.

Patents Nos. 1,374,171 to 1,374,898.

THE
OFFICIAL GAZETTE
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Total	1048		

Adverse Decisions in Interference.

PATENT NO. 1,325,234.

On March 7, 1921, a decision was rendered that Forrest J. Couch and James F. Wallace were not the first inventors of the subject-matter covered by claims 1, 3, and 11 of their Patent No. 1,325,234, subject, "Wringer mechanism for clothes-washers," and no appeal having been taken within the time allowed such decision has become final.

The Official Gazette.

THE OFFICIAL GAZETTE is published every Tuesday simultaneously with the weekly issue of patents. From January 1, 1872, (the commencement of its publication,) to June 30, 1883, it was published and bound in semi-annual volumes; from July 1, 1883, to December 31, 1902, in quarterly volumes; from January 1, 1903, to December 31, 1908, in bimonthly volumes; since January 1, 1909, in monthly volumes. Terms: Annual subscriptions, $5; monthly, 50 cents. For postage upon foreign subscriptions, except those from Canada and Mexico, $5 or more, as required. Moneys received from foreign subscribers in excess of the subscription price of $5 will be deposited to the credit of the subscriber and applied to postage upon the subscription as incurred. Single copies, 10 cents; if mailed to foreign countries, excepting Canada and Mexico, 10 cents additional for postage. *Payment in advance required. No club rates. No discount to newsdealers. No sample copies.* All subscriptions must commence with the beginning of a volume. None taken for less than an entire volume. All orders should be addressed to "The Superintendent of Documents, Government Printing Office, Washington, D. C."

Amendment to Rules of Practice—Rule 194.

Acting under the provisions of section 483 of the Revised Statutes and with the approval of the Secretary of the Interior, Rule 194 of the Rules of Practice of the United States Patent Office is amended in the following particulars:

In the first sentence thereof the words "certificates of deposit" are canceled.

The third sentence, which reads as follows, is canceled:

"Payment may also be made to the Treasurer, or to any of the Assistant Treasurers of the United States, or to any of the depositaries, national banks, or receivers of public money, designated by the Secretary of the Treasury for that purpose, who will issue a certificate of deposit in triplicate and will forward the original and the duplicate certificates to the Secretary of the Treasury and the Commissioner of Patents, respectively, and will give the triplicate certificate to the depositor."

The rule as amended reads as follows:

194. All payments of money required for Office fees must be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money-orders and checks should be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. Letters containing money should be registered. In no case should money be sent with models.

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Single numbers	.05
Manual of Classification of the German Patent Office, (translated,) paper cover	1.00
Index to German Classification	1.00
Definitions of Revised Classes and Subclasses, edition of 1912, (Bulletins 1 to 27, inclusive)	.50
Bulletins, excepting Nos. 28 and 29, (now out of print,) published since 1912, each	.10

Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly held for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should NOT be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.

Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.

Correspondence by Mail.

Notice is hereby given to attorneys and others transacting business with the Patent Office that all mail-matter arriving at the Washington post-office up to the hour of closing business at the Patent Office each day will be entered as received on that day.

APPLICATIONS UNDER EXAMINATION.

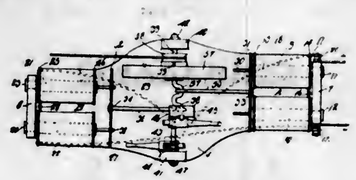
Condition at Close of Business April 2, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Nov. 16	Dec. 3	624
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Aug. 10	Oct. 6	1,353
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Aug. 6	642
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	May 17	June 12	1,453
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 6	Sept. 16	606
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Nov. 9	Jan. 18	695
312	7. Games and Toys; Optics; Photography; Velocipedes	Nov. 15	Dec. 15	1,137
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Jan. 19	Feb. 2	496
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Aug. 21	Feb. 14	628
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Sept. 27	Jan. 24	1,000
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Jan. 7	Jan. 24	427
222	12. Machine Elements	Aug. 25	Jan. 14	977
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 17	Dec. 16	1,436
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	July 9	Feb. 4	809
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 24	Aug. 18	1,473
111	16. Radiant Energy; Telegraphy; Telephony	July 2	Sept. 4	1,378
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Oct. 4	Jan. 6	657
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	July 31	Oct. 30	1,368
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	July 12	Nov. 1	684
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 4	Dec. 17	922
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Sept. 9	Feb. 3	509
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Nov. 6	Feb. 4	356
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	July 29	Dec. 9	838
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 13	Jan. 3	760
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 12	Feb. 16	234
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Aug. 30	Nov. 5	772
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Nov. 18	Jan. 6	846
225	28. Internal-Combustion Engines	Sept. 17	Dec. 15	1,073
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Aug. 4	Jan. 24	636
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Sept. 11	Feb. 17	898
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 12	Sept. 14	1,770
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	July 1	Jan. 3	1,100
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 1	Dec. 3	703
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	Feb. 14	Mar. 12	160
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Feb. 25	Feb. 24	398
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Oct. 25	Oct. 16	1,477
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Oct. 6	Oct. 13	1,491
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 8	Oct. 20	878
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 15	June 5	1,514
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 17	Dec. 8	1,457
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Aug. 16	Jan. 5	812
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	July 23	Oct. 1	1,704
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	June 26	Aug. 9	1,146
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Aug. 3	Jan. 28	446
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Aug. 9	Nov. 5	985
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Nov. 2	Dec. 21	623
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Aug. 6	Oct. 11	1,047
	Oldest new case, May 15; oldest amended, June 5.			
	Total number of applications awaiting action			43,398
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 5	Jan. 29	4,481
	Designs	Sept. 18	Nov. 24	1,888
	Labels and Prints	Jan. 3	Feb. 16	520

PATENTS

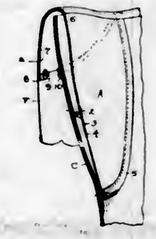
GRANTED APRIL 12, 1921.

1,374,171. ELECTRIC MOTOR. GEORGE W. AMANN, Jr., Little Black, Wis. Filed Dec. 21, 1917. Serial No. 208,282. 1 Claim. (Cl. 172—126.)



In an electric motor the combination of two pairs of electro-magnets being in the same plane and out of alinement with one another, movable armatures adapted to be acted on by said electro-magnets, a crank shaft rotatably mounted in the same plane with and between said pairs of electro-magnets and provided with spaced contacts lying in the same plane, a lever provided with a yoke adapted to overlie and to be intermittently engaged by one of the spaced contacts on the shaft, a second lever provided with a yoke adapted to be intermittently engaged by the other spaced contact on the shaft, means connecting the armatures with the shaft to impart a rotary movement thereto when said armatures are moved, and circuits including the electro-magneta, said circuits provided with terminals.

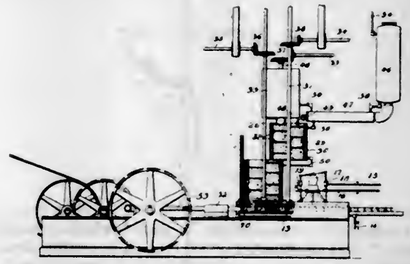
1,374,172. POCKET FOR CORSETS. L MAUDE ANDREWS, Seattle, Wash. Filed Dec. 10, 1919. Serial No. 343,881. 3 Claims. (Cl. 2—73.)



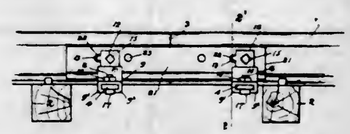
2. An article of manufacture comprising a fabric member adapted to provide a pocket when stitched upon the inside of a corset, said member having a flap at its upper edge adapted to extend outwardly and downwardly over the upper edge of the corset and means for detachably securing the free end of said flap to the outer face of the corset.

1,374,173. BRICKMAKING APPARATUS. MARCUS PEYTAN ANDREWS, Petersburg, Va. Filed June 1, 1920. Serial No. 385,503. 4 Claims. (Cl. 25—12.)

1. In an apparatus of the class described, the combination with the agitating and feeding vat into which the mixture is deposited, of a tunnelway having a throut connected with the vat, a plunger for forcing the material through the tunnelway, a plate feeding mechanism for delivering separating plates to the tunnelway on the recession of the plunger, means for reciprocating the plunger, an agitator and mixer in the vat, said agitator and mixer including a feed propeller extending partly across the throat so as to leave a portion of the throat out of the influence of the propeller substantially as shown and for the purposes described.

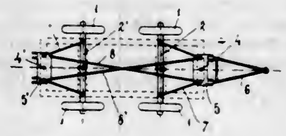


1,374,174. REPAIR-CLAMP. WILLIAM ANDREW ROBERT ANGUS, Winnipeg, Manitoba, Canada. Filed Mar. 8, 1920. Serial No. 364,113. 2 Claims. (Cl. 238—263.)



1. The combination with the broken ends of a rail and angle bars disposed at opposite sides of the rail at the break, of a repair clamp presenting a shank passing beneath the rail, a stationary jaw extending from the shank and engaging with one of the angle bars, a removable adjustable jaw engageable with the other of the angle bars, an adjusting screw carried by the adjustable jaw and alining studs extending from the jaws.

1,374,175. STEERING-GEAR FOR TRAILERS. ACHILLE ARATO, Turin, Italy, assignor to Ferruccio Botta, Turin, Italy. Filed June 1, 1920. Serial No. 385,733. 5 Claims. (Cl. 280—33.5.)



1. In a trailer having wheels mounted on steering parts, a member pivoted to swing at each end of the trailer around a vertical axis distinct from the axis of rotation of said steering parts, means for connecting either of said members with a tractor, and means interconnecting said steering parts and swinging end members, said means comprising ties transmitting the deviations of said swinging member connected with the tractor to the steering

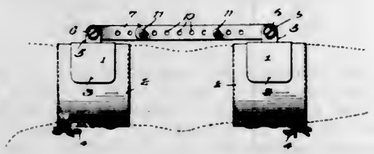
parts carrying the adjacent wheels in the same direction and under a reduced ratio, and to the steering parts carrying the other wheels in the opposite direction and under the same reduced ratio.

1,374,176. FRUIT-PICKER. LIONEL M. BARNES, Paget West, Bermuda. Filed July 22, 1918. Serial No. 246,242. 1 Claim. (Cl. 56—340.)



A fruit picker comprising a ring having a receptacle secured to and depending therefrom, a collar disposed centrally below the ring and having outwardly and upwardly directed arms terminating in eyes engaged with the ring, and a rod slidably disposed vertically through the collar and centrally through the ring and having fingers above the ring radiating from the upper end from all sides of the rod, and means for holding the rod at different points of its sliding movement through the collar to dispose the fingers at different distances from the ring, for the reception of fruits of different characters between them and the ring.

1,374,177. ORTHOPEDIC APPLIANCE. JOSEPH F. BARRY, New York, N. Y. Filed June 11, 1919. Serial No. 303,470. 5 Claims. (Cl. 128—88.)



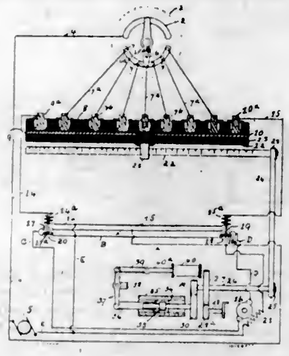
1. An orthopedic appliance comprising a pair of body supporting members, a rigid connecting member pivotally connected at its ends to the respective body supporting members whereby the latter may be adjusted from one side to the other side of the rigid member, and means for fixedly clamping the pivotal connections between said members whereby the three members will constitute a rigid structure.

1,374,178. OPHTHALMIC MOUNTING AND METHOD OF MAKING THE SAME. EDWARD BELLAIR, Southbridge, Mass., assignor to Dupaul, Young Optical Co., Southbridge, Mass., a Corporation of Massachusetts. Filed July 28, 1920. Serial No. 399,485. 9 Claims. (Cl. 88—47.)



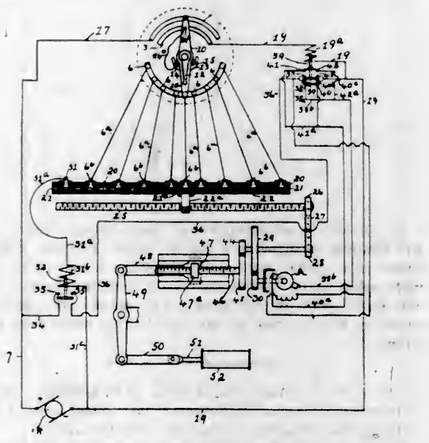
7. An ophthalmic mounting constituted of two elements only, one an inner metal rim of substantially circular cross section having an inner lens-receiving groove, and the other an outer non-metallic rim having an inner annular slot within which the metal rim is mounted, the rims being formed with coacting means for locking the rims together.

1,374,179. TELEMOTOR. MELVIN B. BENSON, Superior, Wis. Filed Dec. 27, 1916. Serial No. 139,128. 5 Claims. (Cl. 172—8.)



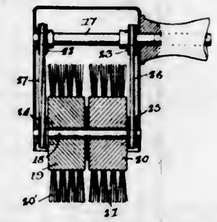
3. The combination with a source of electricity and the armature of a motor in circuit therewith, said circuit including a normally open contact; a second electric circuit including a source of electricity, a normally open contact, a normally closed contact and only one relay coil; manually operatable means for closing the normally open contact of said second circuit, exclusively mechanical means adapted to be operated by said motor for opening the normally closed contact of said second circuit, means governed by said coil for closing the normally open contact of said first circuit.

1,374,180. TELEMOTOR. MELVIN B. BENSON, Superior, Wis. Filed Dec. 29, 1916. Serial No. 139,528. 4 Claims. (Cl. 172—8.)



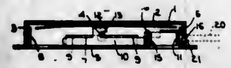
1. The combination of a source of electricity and a motor in circuit therewith, said circuit including a normally open contact, a second normally open contact and a third normally open contact; a second circuit including said source, a normally open contact and a relay coil; a third circuit including said source, a normally open contact, a normally closed contact and a relay coil; manually operable means for closing the normally open contact of said second and third circuits respectively, means adapted to be automatically operated by said motor for opening the normally closed contact of said third circuit after the closing of the normally open contact of said third circuit, means governed by the coil of said third circuit for closing one of the normally open contacts of said first circuit, and means governed by the coil of said second circuit for closing the other normally open contacts of said first circuit.

1,374,181. POWER-DRIVEN SHOE-SHINE BRUSH. HULDREICH A. BOHLMAN, Milwaukee, Wis. Filed Jan. 7, 1920. Serial No. 349,904. 4 Claims. (Cl. 15—37.)



1. A portable device for shining shoes comprising a pair of axially alined, juxtaposed brushes; means for simultaneously causing said brushes to rotate in opposite directions; and manual means for positioning said brushes upon the shoe, whereby shoes may be polished without removing them from the feet of the wearer.

1,374,182. HOLDER FOR AUTOMOBILE-LICENSES. GEORGE W. BOYNTON, Watertown, Mass. Filed Oct. 7, 1918, Serial No. 257,136. Renewed Aug. 23, 1920. Serial No. 405,486. 4 Claims. (Cl. 40—15.)



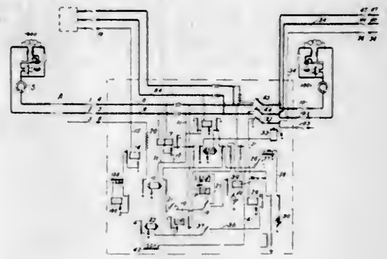
2. A license holder comprising a supporting plate, a latch mounted thereon for movement parallel thereto, a license-retaining member having a license-receiving pocket and also having a rod extending across said pocket for retaining the license therein, said rod being adapted to be engaged by said latch thereby to lock said member to the plate, said plate having positioning lugs to engage the license-retaining member and prevent movement of the latter transversely of the plate.

1,374,183. DENTAL IMPRESSION-TRAY. JOSIAH S. BRIDGES, Chicago, Ill. Filed Aug. 28, 1918, Serial No. 251,717. Renewed Aug. 28, 1920. Serial No. 407,060. 7 Claims. (Cl. 32—6.)



1. A dental impression tray comprising in combination a cup, a handle therefor, a reinforcing means for and separate from the cup and means detachably connecting the handle with the cup and reinforcing means.

1,374,184. TELEPHONE SYSTEM. ERNEST C. BRITTON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 9, 1917. Serial No. 179,418. 16 Claims. (Cl. 179—18.)

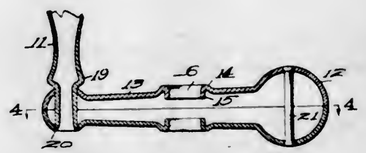


1. In a telephone exchange system, a switch arranged to perform the functions of either a selector switch or of a connector switch, said first mentioned switch being reached by a plurality of paths, and means controlled by the path over which connection is made to said switch for determining which of said functions said switch will perform.

1,374,185. WHOLE-WHEAT FOOD PRODUCT. CHARLES F. BROCKMEYER, Bennett, Iowa. Filed Nov. 15, 1920. Serial No. 424,158. 2 Claims. (Cl. 99—10.)

2. The hull or bran and the cracked kernels or endosperm are now united or mixed together as in making Graham flour and sufficient pure water is added to form a stiff batter which is tastefully seasoned with salt.

1,374,186. PRESSED-STEEL BALL CRANK-HANDLE. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1919. Serial No. 339,989. 7 Claims. (Cl. 74—33.)

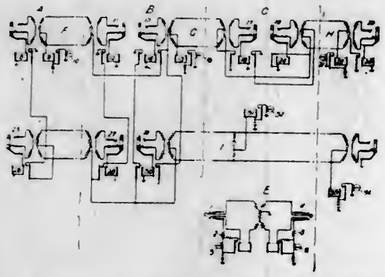


5. As an article of manufacture, a crank handle comprising two pressed steel halves secured together, the walls at the center being turned in to provide a non-circular perforation in each half, said perforations being in alinement.

1,374,187. ROOFING-FELT. ALBERT L. CLAPP, Marblehead, Mass., assignor to Reginald W. Bird, Framingham, Mass. Filed Feb. 7, 1918. Serial No. 215,891. 6 Claims. (Cl. 92—3.)

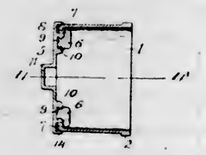
1. As a new article of manufacture, a flexible sheet composed of a mixture of rag fiber and sawdust intimately commingled in such proportions as to result in a product of high penetrability and tensile strength so as to adapt it as a foundation for prepared roofing.

1,374,188. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 11, 1918. Serial No. 233,970. 7 Claims. (Cl. 179—43.)



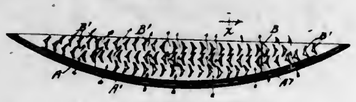
6. In a telephone system, a plurality of exchanges, a plurality of trunk circuits for establishing connections between said exchanges, and means at each exchange for indicating the condition of the trunk circuits interconnecting other exchanges.

1,374,189. PLUMBER'S CLEAN-OUT. ROBERT CLOW, Kansas City, Kans. Filed Jan. 8, 1918. Serial No. 210,837. 1 Claim. (Cl. 220—40.)



In a plumber's clean-out, a cover comprising a cast body and a locking lug of softer material than the body, the lug having an outwardly extending arm spaced apart from the body, so that a locking flange may be received between the lug and the body, the lug having a shank at right angles to the arm, the shank having a peripheral groove portion embedded in the body.

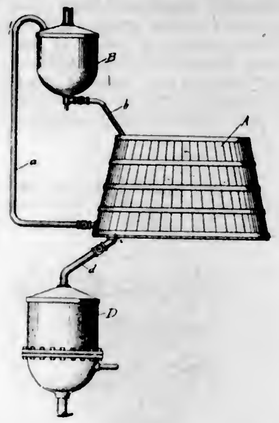
1,374,190. AIRPLANE-RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed Oct. 19, 1918. Serial No. 258,815. 3 Claims. (Cl. 257—129.)



1. In a radiator, the combination of a double outer shell, a space adapted to be filled with cooling liquid between the walls thereof, said double outer shell having perforations therethrough for the passage of air, said space being adapted to communicate with the water jacket of an engine by means of tanks, a series of crescent shaped pipes connecting the said tanks and so arranged as to form tortuous air passages therethrough and coöperating with the air passages through the double shell.

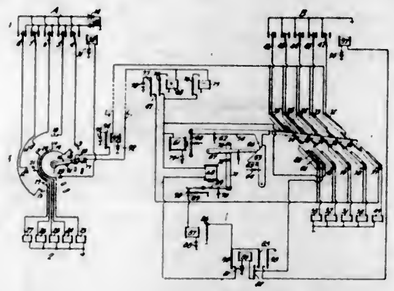
1,374,191. MASHING PROCESS. HENRY E. DECKEBACH, Cincinnati, Ohio. Filed Sept. 20, 1919. Serial No. 325,143. 2 Claims. (Cl. 195—32.)

1. A mashing process which consists of heating ground malt and water in a mash tun, simultaneously heating grits and water in a converter, instituting a circulation of the materials from the mash tun into the converter



and from the converter into the mash tun, maintaining the circulation until the starch is converted and then discharging the material from the mash tun.

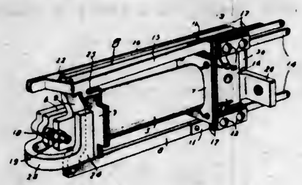
1,374,192. SELECTIVE SYSTEM. AMOS F. DIXON, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 2, 1917. Serial No. 178,225. 4 Claims. (Cl. 178—33.)



1. In a selecting system, a plurality of stations, a pair of line conductors connecting said stations, an impulse transmitting mechanism at each station comprising a group of selectively operated contacts, a selecting mechanism at each station comprising a group of magnets selectively operated in accordance with impulses transmitted over a line conductor by the transmitting mechanism at another station, and a distributer at each station operable to connect the transmitting mechanism at that station with one of said line conductors and to connect the selecting mechanism at that station with the other of said line conductors, one of said distributers including means for impressing current impulses upon the line circuit for operating said other distributer in unison therewith.

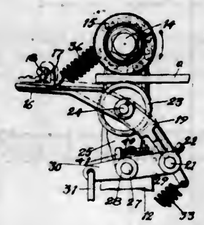
1,374,193. ELECTROMAGNETIC RELAY. WILLIAM H. D. FORD, Yonkers, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1918. Serial No. 228,407. 3 Claims. (Cl. 200—94.)

1. An electromagnetic relay comprising a core, a magnetizing coil about said core, an armature actuated by said coil, contact springs controlled by the movement of said armature, and an extension on said core and in



magnetic contact therewith adapted upon energization of the coil to exert a magnetic pull upon said armature in a direction opposite to that exerted by the core itself.

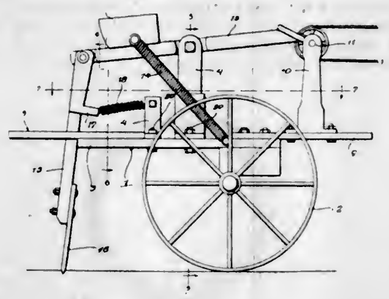
1,374,194. SURFACE-SCOURING MACHINE. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 4, 1919. Serial No. 315,085. 14 Claims. (Cl. 51—240.)



1. A machine for scouring rubber soles, comprising an abrading roll, a movable support opposite said roll, means carried by said movable support to determine the initial position of the work, and means to rotate the abrading roll in a direction to oppose the withdrawal of the work.

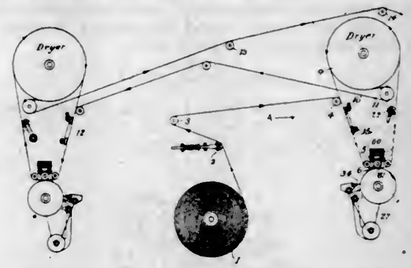
2. A machine for scouring rubber soles, comprising an abrading roll, a support opposite said roll and including a loosely mounted presser roll, means to determine the initial position of the work, and means to rotate the abrading roll in a direction to oppose the withdrawal of the work.

1,374,195. SPADING-MACHINE. LUIGI FURNARI, Ravenna, Ohio. Filed July 6, 1920. Serial No. 394,179. 2 Claims. (Cl. 97—53.)



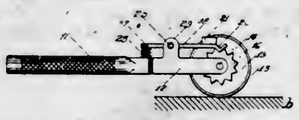
2. An apparatus of the class described comprising a wheeled frame, a pair of uprights adjustably supported thereon, a walking beam carried by one upright, a spade carrying member pivoted to the outer end of said walking beam, a spring connecting the upper part of said spade carrying member with the other upright, spaced guiding bars for guiding said spade carrying member and means for actuating the walking beam, such means consisting of a crank shaft for engaging one end of the beam and springs and a weight connected with the other end.

1,374,196. PERFECTING MULTICOLOR WEB-PRESS. RAYMOND N. GETCHES, Glen Ridge, and ISIDOR TORNBERG, Plainfield, N. J. Filed June 11, 1919. Serial No. 303,440. 8 Claims. (Cl. 101—152.)



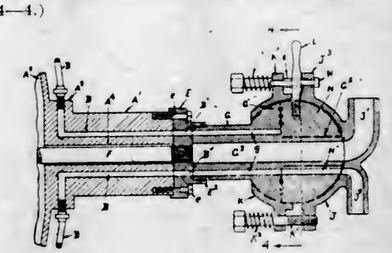
1. The combination in a web press of a means for supporting a plurality of forms in alinement and impression means coöperating therewith, and means for passing a web to each of the forms comprising means intermediate each two forms for offsetting the web and a heated revoluble drum around which the web passes, said drum being of sufficient size and temperature that the ink is dried when the web passes around the drum once at printing speed.

1,374,197. MECHANICAL VIBRATOR. WILLARD H. GILMAN, New York, N. Y., and MATTHEW H. LOUGHRIDGE, Bogota, N. J. Filed Feb. 2, 1920. Serial No. 355,644. 11 Claims. (Cl. 128—57.)



1. In a mechanical vibrator for massage purposes, the combination of a handle with a roller engaging the skin, a spring controlled member secured to said handle, means for causing said member to vibrate as said roller is rotated, the effect from said vibrations being transmitted to the skin through said roller.

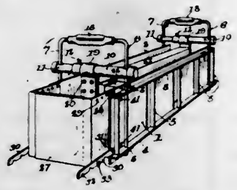
1,374,198. DEWATERING MECHANISM FOR PAPER-MACHINE DRUMS. JOHN C. GLENN, Erie, Pa. Filed Jan. 5, 1920. Serial No. 349,358. 5 Claims. (Cl. 34—4.)



5. In a drier drum for paper making machines, axial supporting journals, a stem secured on the end of one or

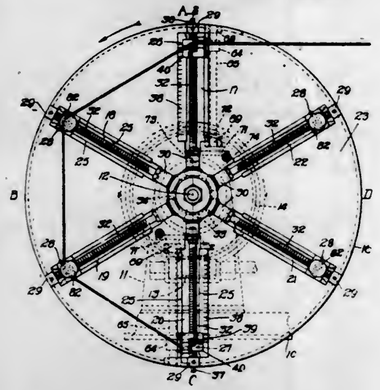
both of said journals, a central longitudinal opening through said stem and journal, through which steam may be admitted to said drum, longitudinal ducts in said stem and journal eccentric to said central opening, tubular connections leading from said ducts to the interior of said drum, dipper means within said drum and secured adjacent to the inner cylindrical wall thereof and communicating with said tubular connections, a ball shaped journal on said stem, a housing inclosing said ball shaped journal and having a steam inlet passage coinciding with said central longitudinal opening, and a water and steam outlet passage adapted to coincide alternately with each of said longitudinal ducts at each revolution of said drum, when said dipper means is immersed in water in said drum substantially as set forth.

1,374,199. CONCRETE-MOLD. ARTHUR S. GREENE, North Milwaukee, Wis. Filed Jan. 14, 1920. Serial No. 351,327. 8 Claims. (Cl. 25—131.)



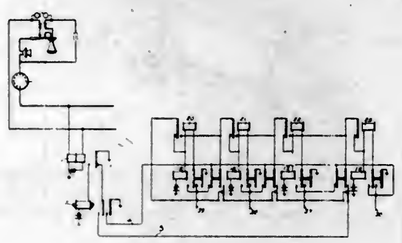
2. A mold for concrete work, comprising side walls, means for adjustably spacing said side walls, and an end gate composed of two relatively movable spring pressed members arranged to fit between said side walls and close one end thereof.

1,374,200. MECHANISM FOR CUTTING CORDS OR STRANDS. HANS HENRIK C. GRONDAHL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 29, 1919. Serial No. 327,064. 7 Claims. (Cl. 164—47.)



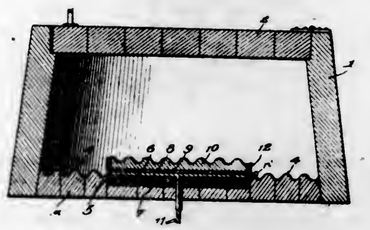
1. In a machine for cutting a continuous strand or cord into given lengths, means for drawing said cord or strand from a supply reel at a substantially constant speed, mechanically operated means associated with said drawing means for cutting said cord into lengths as it is drawn from said supply reel, and means carried by said drawing means for varying the position of said cutting means whereby the length of cord to be cut may be varied.

1,374,201. SELECTOR. JOHN A. HALL, Bayside, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 19, 1919. Serial No. 324,913. 6 Claims. (Cl. 179—16.)



1. A selector comprising a series of switching relays, an impulse circuit for energizing said relays in succession, and means for deënergizing a previously energized relay upon the beginning of the impulse for energizing the next one of said relays.

1,374,202. HEATING UNIT FOR WASHING-MACHINES. IRVIN H. HARRIS, Evanston, Wyo. Filed Jan. 14, 1920. Serial No. 351,467. 3 Claims. (Cl. 219—43.)



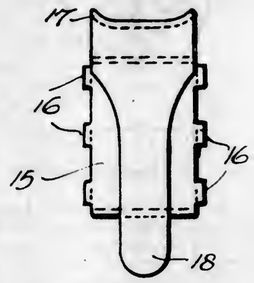
1. A washing machine having a bottom provided with a socket therein, and a corrugated surface surrounding said socket, said socket being of circular formation, and an electrical water heating device seated within the socket and having a resistance element therein, said water heating device being of a circular formation, and engaging the side walls of the socket and provided along its upper surface with a transversely corrugated plate conforming to the upstanding washing elements in the bottom of the machine.

1,374,203. KILN AND FIRE-BRICK THEREFOR. SIMON HENRY HARRISON, Easton, Pa., assignor of one-half to S. Warren Hartwell, Easton, Pa. Filed Feb. 24, 1920. Serial No. 360,653. 8 Claims. (Cl. 222—7.)



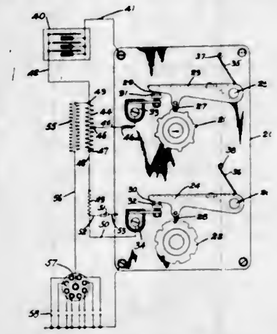
1. In an iron-incased brick lined, calcining chamber or furnace, the novelty which consists in wedge shaped bricks having the area of contact between the lining brick and the inclosing casing reduced to flanges only, the structure being sealed against passage of gases longitudinally of the casing and the bricks being held in position by their mutual wedging actions.

1,374,204. GARMENT-SUPPORTER. JAMES B. HUCLE, Columbus, Ohio, assignor of one-fourth to Russell H. Ross, Columbus, Ohio. Filed Oct. 11, 1920. Serial No. 416,180. 2 Claims. (Cl. 24—84.)



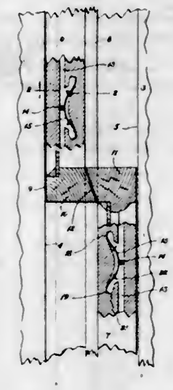
1. A garment supporter formed of a single elongated blank and having a downwardly opening body portion of inverted U-shape whose spaced apart walls are adapted to embrace the upper edge of trousers, and a downwardly opening belt receiving hook of inverted U-shape whose inner wall parallels, and forms an upward continuation of the lower end of the outer wall of the body portion and is in closely contacting relation therewith, said inner wall of said belt hook having lengthwise series of angular spurs along opposite sides projecting at the opposite sides of the body portion and terminating at their free ends beyond the inner wall of the body whereby their said free ends may be crimped inwardly toward one another along the inner wall of the body, as described.

1,374,205. IGNITION SYSTEM. JOHN H. HUNT, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed July 11, 1918, Serial No. 244,371. Renewed May 14, 1919. Serial No. 297,156. 11 Claims. (Cl. 123—148.)



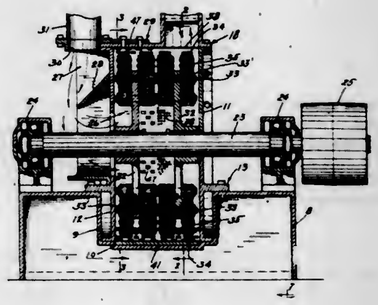
1. In an ignition system, the combination with a source of current; of a device for accumulating spark impulse energy, and also for transforming the current passing through it; of electric circuits for connecting the device with the source of current; and circuit controlling means for controlling the passage of current through the said device to produce the energy accumulating operation, and to produce the current transforming operation, and for interrupting the passage of current to said device whereby the spark impulse energy is released.

1,374,206. ANTI-WINDOW-RATTLER. EMIL H. JACOB, Chicago, Ill. Filed Aug. 20, 1919. Serial No. 318,749. 2 Claims. (Cl. 292—76.)



1. In combination with a sliding window sash and its casing, anti-rattling construction including a pin in one of the members adapted to relatively traverse a path defined by a groove in the other member, said groove being covered throughout the normal path of the pin by a single wall of the pin carrying member, and a bowed spring extending into the path of the pin and freely retained in a recess in a side wall of the groove.

1,374,207. GRINDING-MILL. AXEL E. JACOBSON, Minneapolis, Minn. Filed Apr. 7, 1919. Serial No. 288,106. 3 Claims. (Cl. 83—11.)

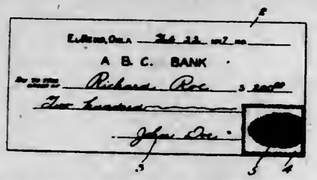


1. The combination with a housing, of a segmental plate in the housing having cut and pressed therefrom loops which constitute a grinding surface thereon, both ends of the loops being integral with the plate, the under faces of said loops being spaced above the upper face of the plate, and revoluble beaters mounted in the housing for coöperation with said grinding surface and arranged to move transversely over said loops.

1,374,208. METHOD OF PROTECTING DOCUMENTS. JOHN WILLIAM JONES, El Reno, Okla. Filed Mar. 7, 1917. Serial No. 153,154. 1 Claim. (Cl. 95—5.)

A method of protecting a document which has a limited portion of the area of its face coated with a light

sensitive material which method consists in pressing upon said light sensitive area a portion of the skin of the

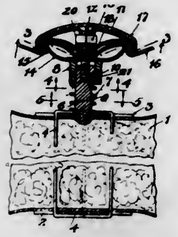


party to the document and then exposing such sensitized area to light to make such skin impression visible.

1,374,209. PROCESS OF MAKING ALKALINE SULFID. WILLIAM H. LANDERS, New York, N. Y., assignor of one-half to Henry S. Loud, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,724. 6 Claims. (Cl. 23—13.)

1. The process of making an alkali-metal sulfid which consists in intimately mixing and effecting a reaction between an alkali-metal salt of a volatile strong mineral acid and carboniferous sludge acid, normally containing at least five per cent. of homogeneously distributed carbon, subjecting the carboniferous sulfate produced to a sufficient temperature to promote the reduction of the greater part of such sulfate to sulfid and then recovering the resultant alkali-metal sulfid.

1,374,210. DEVICE FOR ATTACHING COVERS TO CUSHIONS. JOSEPH H. LANGROCK, New York, N. Y. Filed Jan. 7, 1921. Serial No. 435,673. 10 Claims. (Cl. 24—113.)



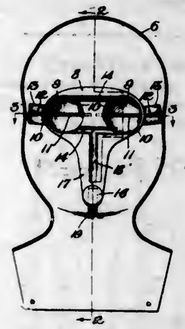
10. A device of the class described comprising a button having a domed head, a threaded shank extending from to detachably receive said shank, a clamping plate on the under side of said head, a spring for forcing said clamping plate against the button head and a plurality of thread-receiving recesses in the plate.

1,374,211. CONCEALED-STITCHED BINDING FOR SEWED ARTICLES. CHESTER MCNEIL, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1919. Serial No. 284,718. 7 Claims. (Cl. 112—262.)



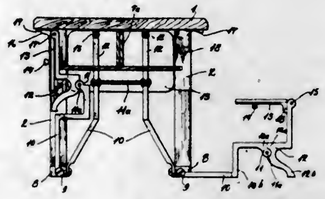
1. A stitched article comprising a fabric strip having its edge folded underneath the body portion of the strip, said body portion of the strip being folded around and beneath the folded in edge of the same, concealed stitches for securing the parts of the fabric strip in fixed relation to each other, said stitches including a thread disposed between the folded in edge of the strip and the body portion of the strip and having loops extending through said folded in edge and the portion of the fabric strip extending beneath said folded in edge.

1,374,212. EYES FOR DOLLS. ISIDORE MARKS, Dorchester, Mass. Filed June 3, 1920. Serial No. 386,248. 3 Claims. (Cl. 46—40.)



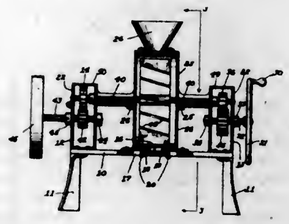
1. An eye structure for dolls' heads comprising spaced apart hemispherical protuberances integrally formed on a piece of sheet material, and a pair of rods for pivotally securing the eyes in the head, the rods being axially alined and severally extended through the protuberances at diametrically opposite points thereon and being severally secured at their outer ends to the opposite sides of the head.

1,374,213. FOLDING CHAIR. FRANK MARZAK, Brooklyn, N. Y., assignor of one-half to Anton Samokiszczuk, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,497. 1 Claim. (Cl. 155—80.)



A device of the class described comprising a frame, standards supporting said frame, collapsible chairs pivotally attached to said standards and adapted to be concealed under said frame, said chairs comprising substantially Z-shaped members having pivotal attachment with said standards, leg members pivotally attached to said Z-shaped members, upward extensions on said leg members, seat panels pivotally attached to said extensions, and means on said seat panels for retaining the latter in horizontal position when said seat is extended.

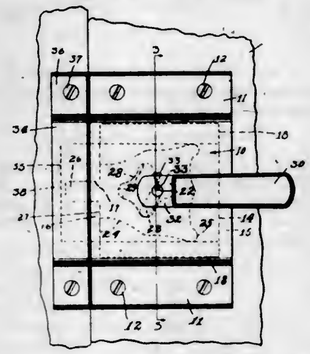
1,374,214. DRIVING MECHANISM. BARTLOMIEJ MAZURYK, Tugaske, Saskatchewan, Canada. Filed Oct. 15, 1919. Serial No. 330,938. 1 Claims. (Cl. 74—7.)



In a driving mechanism of the character described, the combination of two casings and a shaft journaled within

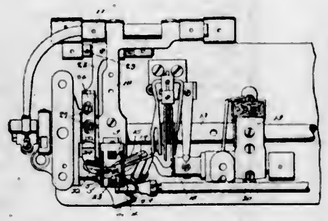
said casings at both of its ends, with pinions on said shaft within said casings, a stub shaft journaled in one of said casings, a hand wheel at the outer end of said stub shaft, a pinion on said stub shaft within said casing in mesh with one of said first named pinions, a stub shaft within the other casing carrying a pinion in mesh with the other of said first named pinions, an outer extension for the first named stub shaft and a balance wheel at the outer extremity of said extension, substantially as described and for the purpose set forth.

1,374,215. DOOR-CATCH. IRVIN U. MINEHART, Coggon, Iowa. Filed Feb. 3, 1920. Serial No. 355,915. 1 Claim. (Cl. 292—187.)



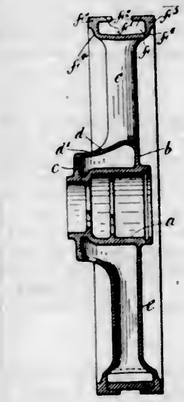
A door catch of the gravity type embodying a keeper having attaching means, a casing having attaching means, said keeper and casing conforming in shape in end elevation, said casing having a cut-out producing top and bottom walls and side walls, one of said side walls disposed toward the keeper being provided with a recess, said top and bottom walls being provided with rabbeted recesses, a detachable cover plate secured in said rabbeted recesses, over the cut-out at the back of the casing, a latch bolt of tapered-like formation movably mounted in the cutout, the enlarged end thereof being slidably supported at the bottom of the cut-out and the reduced end thereof being formed with a beveled engaging portion with shouldered walls above and below the same, said bolt having a cross shaped opening therethrough having a series of extensions of concaved-formation extending vertically and horizontally, an arbor rotatably mounted through the casing and having a radially projecting bit designed to engage said opening and extension recesses thereof whereby when the arbor is turned said bit engages the walls of said recesses to shift said bolt to engaging or disengaging positions with respect to the keeper, and handles mounted on the arbor.

1,374,216. STITCH-FORMING MECHANISM FOR SEWING-MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1918. Serial No. 240,586. 4 Claims. (Cl. 112—200.)



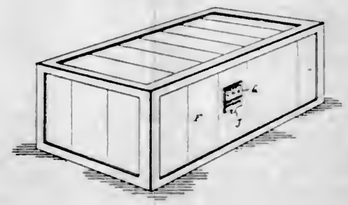
1. The combination of a feeding mechanism and a stitching mechanism including a pair of needles arranged in a line diagonally of the line of feed, and a single threaded looper adapted to coöperate with said pair of needles, said looper being mounted so as to move in a line diagonal of the line of feed and parallel with the line of the needles as it enters the needle thread loops, and means for moving the looper laterally as it is retracted, whereby the diagonal face of the looper operates to draw the needle thread loops about the looper to one side so as to insure both needles entering the thread triangle in advance of the needle thread loops.

1,374,217. WHEEL. HERMAN C. MUHLBACH, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 30, 1920. Serial No. 434,172. 1 Claim. (Cl. 301—65.)



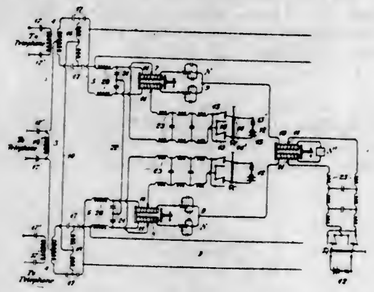
A cast metal wheel comprising a hub, hollow spokes and a tire-supporting rim, the hub having an inner tubular wall to receive bearings and an outer spoke-supporting wall extended beyond the spokes toward the outer end of the hub to form a substantially cylindrical wall and merged into the walls of the spokes, and circumferential flanges near the ends of the hub to which said outer wall is joined.

1,374,218. C. O. D. ENVELOP CONTAINER. WILLIAM P. NOBLE, Detroit, Mich. Filed Feb. 26, 1919. Serial No. 279,230. 2 Claims. (Cl. 40—7.)



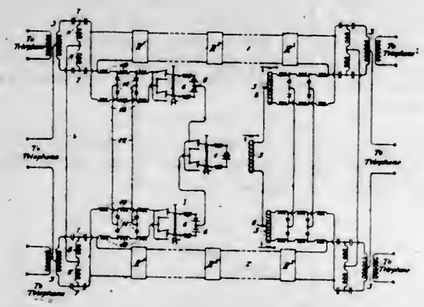
1. In a C. O. D. envelop container, the combination of a portion of the envelop, the edges of which are folded over upon such portion in such a manner as to form a pocket, such pocket portion adapted to be permanently attached to a package, and a covering portion adapted to fold over such pocket portion so as to hold in their folded over relation the pocket forming edges of such pocket portion and adapted to be independently fastened in such covering relation to the C. O. D. package.

1,374,219. COMPOSITE TRANSMISSION SYSTEM. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 12, 1919. Serial No. 276,485. 10 Claims. (Cl. 179—4.)



1. In an electrical signaling system in which side and phantom telegraph circuits are formed on conductors carrying telephone currents, means for transmitting telegraph signaling currents in both directions over the conductors of the system concurrently with the telephone currents, low pass filters connected in the branches leading to the respective side circuits each of said filters being provided with a neutral point, means joining said neutral points whereby said filters act upon both the side and phantom circuits and other low pass filters connected in and affecting only the separate side circuit and phantom circuit respectively.

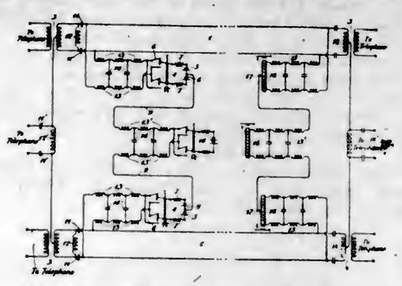
1,374,220. COMPOSITE SIGNALING SYSTEM. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 12, 1919. Serial No. 276,486. 5 Claims. (Cl. 179—4.)



5. In a signaling system, two pairs of conductors arranged to provide two side and one phantom circuit for telephone currents and the telegraph currents and means common to both the side and phantom circuits for separating the telephone and telegraph currents.

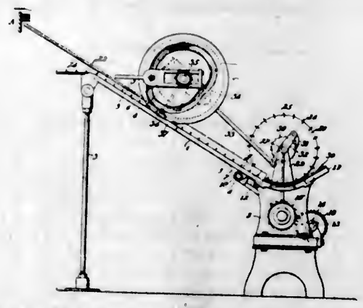
1,374,221. COMPOSITE PHANTOM CIRCUITS. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 12, 1919. Serial No. 276,487. 3 Claims. (Cl. 179—4.)

1. In a signaling system, the combination of two pairs of line conductors, telephone apparatus connected to said conductors to provide two side circuits and one phantom circuit, telegraph apparatus bridged across each pair of conductors forming one of said side circuits, said apparatus including a sending set whose elements are arranged



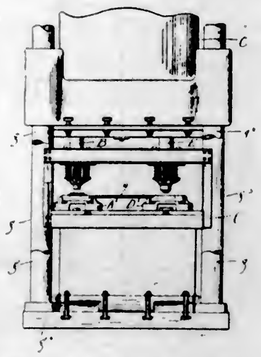
to provide a mid or neutral point with respect to the side circuit conductors, and other telegraph apparatus connected between said neutral points.

1,374,222. MACHINE FOR PACKING MATCHES. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Feb. 4, 1920. Serial No. 356,298. 14 Claims. (Cl. 226—12.)



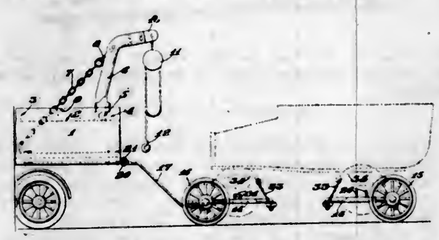
1. In a machine for packing matches and other articles in boxes, an inclined bed provided with guideways for the boxes, means to advance the boxes lengthwise of said bed, and means to cause the articles to approach the boxes in a direction opposite to the movement of the boxes.

1,374,223. MACHINE FOR FORMING METAL BLANKS. EDWARD J. PAQUE, Cincinnati, Ohio, assignor to The Pollak Steel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 17, 1919. Serial No. 338,577. 2 Claims. (Cl. 164—13.)



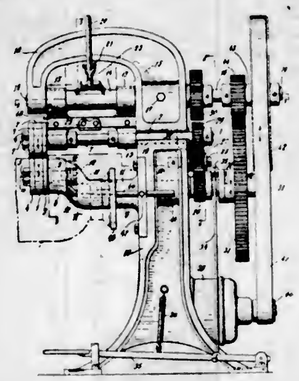
1. In a machine of the character described the combination of a die, a hydraulic punch adapted to coöperate with the die for removing the center from a disk to form a ring, and a second die, a hydraulic punch having a tapered end adapted to be projected through the center of the ring and to center the aforesaid ring upon the second die, and to cut a ring from the center thereof.

1,374,224. APPARATUS FOR TRANSPORTING CRIPPLED OR DAMAGED AUTOMOBILES. WILLIAM LACY PATTERSON, St. Louis, Mo., assignor to Henry Motor Service Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 1, 1918. Serial No. 225,869. 4 Claims. (Cl. 214—86.)



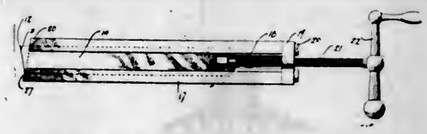
1. In an apparatus of the character described, a trucking device comprising a wheeled axle, a pair of supporting bars adjustably mounted at one end on said axle so as to be movable toward and from each other, and having means at their opposite ends for flexible attachment to the vehicle to be transported, said bars having means between their ends for engagement with the axle of the vehicle.

1,374,225. CAN-EMBOSSING MACHINE. EDWARD M. PEACOCK, Jersey City, N. J., assignor to Davis-Watkins Dairymen's Manufacturing Company, Jersey City, N. J., a Corporation of Maryland. Filed Nov. 25, 1919. Serial No. 340,604. 11 Claims. (Cl. 101—6.)



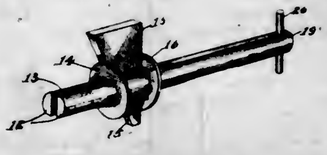
1. A can embossing machine having, in combination, a movable die-supporting member, a rotative die-supporting member having dies complementary to and adapted to register with the dies of the said movable die-supporting member, means for moving radially and parallel to itself one of said die-supporting members to move the dies carried thereby out of and back into coöperative relation with the complementary dies of the other die-supporting member to separate the dies, a support for the supporting member on which it can then be swung to carry its die off to enable a can to be easily withdrawn, and means for assuring that the complementary dies shall be brought back into register with each other when the movable die-supporting member is swung and moved to bring the dies back into coöperative relation.

1,374,226. CUTTING-OFF TOOL. ROBERT A. PEACOCK, Delaware City, Del. Filed May 17, 1920. Serial No. 382,164. 5 Claims. (Cl. 29—96.)



1. In a tool holder, the combination with a cutter bar provided with a forward cutting edge and a socket in its inner end, a body portion of greater length than the cutter bar and provided in one side with an undercut slot adapted to receive said cutter bar, a head mounted on the inner end of said body portion, a feed screw threaded through the head and projecting into said slot, and a swivel connection between the feed screw and said cutter bar and arranged detachably in said socket for moving the cutter bar in said body portion.

1,374,227. CLAMP-BOLT. CHARLES S. PEET, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,695. 9 Claims. (Cl. 85—7.)



1. A fastening device of the bolt type including a shank, an abutment member on said shank adapted to engage one side of an object, a unitary integral clamping member adapted to engage the shank adjacent the opposite side of the object, and clamping means adapted to engage said opposite side of the object and bear against the clamping member, the outward pressure of said means against said member maintaining the latter in locked engagement with the shank.

1,374,228. MOUNT FOR SAFETY-RAZOR BLADES. DANIEL B. PERKINS, Providence, R. I., assignor of one-half to William F. Almy, Providence, R. I. Filed Oct. 16, 1920. Serial No. 417,431. 2 Claims. (Cl. 30—12.)



1. In a razor blade mount, a plate, a lip integral with the plate and formed therefrom, arms formed from the plate at each side of the lip and extending in a plane parallel with the plane of the lip, a comb bar upon the ends of the arms inclined toward the lip and spaced therefrom, and lateral lugs on the arms.

1,374,229. WIRE CONNECTION FOR STRAIN-INSULATORS. PETER L. PETERSON, Worcester, Mass. Filed Aug. 15, 1919. Serial No. 317,829. 1 Claim. (Cl. 287—75.)

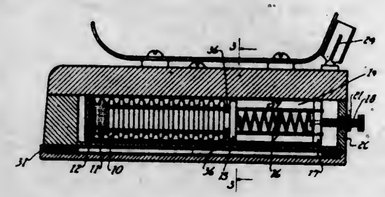
A separable wire connection for a strain insulator comprising a pair of duplicate independent side plates, a

grooved roller positioned between said plates at one end thereof, and detachable connections between said plates, said connections comprising a pin extending through said plates at one end thereof and forming a bearing for said



roller, a second pin extending through the opposite ends of said plates by which said plates may be connected to a support, and removable fastening devices for holding said pins in position.

1,374,230. TEMPERATURE-CONTROLLER. FRED J. PETROVICS, Chicago, Ill. Filed July 17, 1920. Serial No. 397,105. 7 Claims. (Cl. 219—25.)



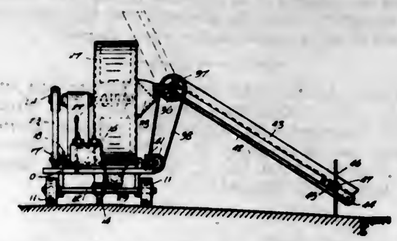
1. Means for controlling the temperature of an electrically heated device comprising a hermetically sealed vessel having resilient walls and containing a fluid, one end of said vessel being fixed, a plurality of electric heating coils mounted in said device, and means operatively connecting the free end of said vessel with said coils for varying the length of the coils in series as the vessel expands or contracts under the varying temperature of said vessel.

1,374,231. PROCESS OF TREATING RUBBER. JOSEPH PORZEL, Buffalo, N. Y., assignor, by mesne assignments, to Superior Rubber Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1918, Serial No. 248,700. Renewed Oct. 9, 1920. Serial No. 415,950. 5 Claims. (Cl. 18—52.)

1. The process of treating vulcanized rubber consisting of reducing the same to a finely divided state under conditions of exclusion of oxygen, adding thereto a small quantity of new, unvulcanized rubber sufficient merely to film the particles of old rubber, which new rubber has been dissolved in an excess quantity of solvent sufficient to distribute said new rubber over said particles, driving off said solvent, and forming and vulcanizing in the usual manner.

1,374,232. PORTABLE BLOWER. HASTINGS C. REED, Cedarville, Ohio. Filed Jan. 29, 1920. Serial No. 354,903. 3 Claims. (Cl. 302—37.)

1. An apparatus of the character described comprising a portable frame, a blower casing therein having an intake at one side and a discharge spout, a blower therein, connections for rotating the blower, a chute carried by the casing adjacent to its intake, a laterally projecting conveyer whose inner end is hingedly connected adjacent to the said chute permitting the conveyer to swing vertically, and connections for operating the conveyer, said



chute having a screen therein between the inner end of the conveyer and the intake of the blower casing as described.

1,374,233. COMPOSITION OF MATTER. OTTO FRITZ REINHOLD, Maplewood, N. J., assignor, by meane assignments, to Foster-Reinhold Laboratories, Newark, N. J., a Corporation of New Jersey. Filed Apr. 15, 1919. Serial No. 290,119. 12 Claims. (Cl. 148—23.)

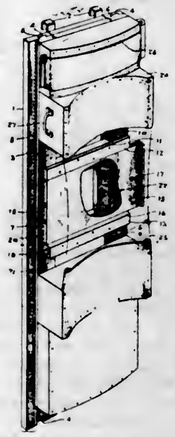
1. A composition of matter comprising metallic salts and an amido-substitution-compound of meta-carbonic acid.

1,374,234. FEED-CARRIAGE FOR STENCIL-MACHINES. GEORGE REMNSNIDER, Belleville, Ill. Filed May 24, 1920. Serial No. 383,628. 9 Claims. (Cl. 197—6.7.)



1. In a device of the class described, the combination with a stencil supporting member, of a feed carriage movable relative thereto, a stencil gripping finger mounted on said carriage and provided with a recess, and a boss on said stencil supporting member for forcing the stencil into said recess.

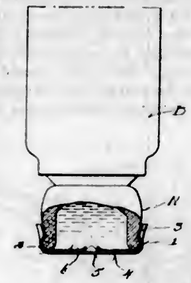
1,374,235. X-RAY PHOTOGRAPHING APPLIANCE. GORDON E. RICHARDS, Toronto, Ontario, Canada. Filed June 20, 1919. Serial No. 305,576. 7 Claims. (Cl. 250—34.)



1. In an X-ray photographing appliance, the combination with the operating table, of a frame longitudinally

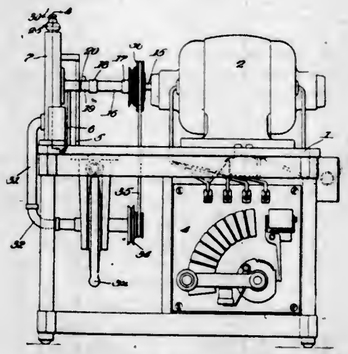
adjustable upon the table and adapted to support the patient, and a plate holding member supported on said adjustable frame and longitudinally and transversely adjustable in relation to said frame.

1,374,236. COMBINED CONTAINER AND LIQUID-SPREADER. ROBERT R. RITZ, Milwaukee, Wis. Filed Mar. 22, 1920. Serial No. 367,843. 1 Claim. (Cl. 91—67.4.)



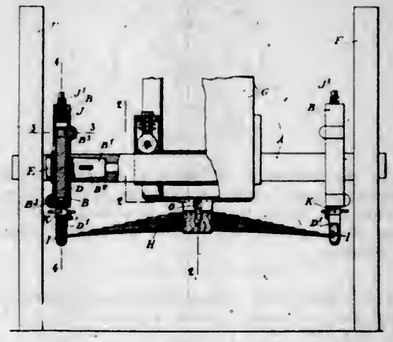
In an original package comprising a container having a discharge mouth, a permanent puncturable membrane fitted over the mouth of the container, an apertured sealing cap permanently secured about the mouth of the container over the membrane, the membrane being adapted to be broken by the introduction of a suitable instrument through the sealing cap aperture to produce ragged ears about the membrane puncture, whereby the opening thus formed in the membrane is materially restricted by contraction of the ears, when the container is inverted to thus retard flow of the container contents.

1,374,237. ELECTRIC GAS-GENERATOR. RUDOLF ROSNER, Chicago, Ill. Filed June 17, 1920. Serial No. 389,684. 12 Claims. (Cl. 204—32.)



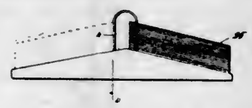
1. In combination, a rotor of incombustible dielectric material provided with an electrode, an inclosing case for said rotor also formed of incombustible dielectric material and carrying a fixed electrode adjacent the path of travel of the rotor electrode, a source of high potential alternating current connected to the electrodes of the rotor and its casing, the casing having a gas generating chamber extending from the fixed electrode adjacent the path of the rotor electrode to an outlet, with an inlet for admitting air to said chamber at the fixed electrode, and means for turning the rotor in direction to carry its electrode past the fixed electrode and thence through the gas generating chamber.

1,374,238. WHEELED AXLE FOR GUN-CARRIAGES AND OTHER VEHICLES SUSPENDED ON SPRINGS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Joint-Stock Company of France. Filed Feb. 28, 1920. Serial No. 362,117. 12 Claims. (Cl. 301—133.)



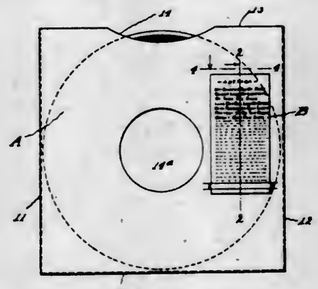
1. The combination with a wheeled axle for gun carriages and other vehicles, comprising a main axle portion carrying the load and journals at the ends of said portion carrying the wheels, a mutual vertical guide between each journal and the main axle portion, and an elastic device normally interposed between the load carried by the main axle portion and the journals, of means for transmitting the load of the main axle portion directly to the journals without the interposition of the elastic device.

1,374,239. MEMORANDUM-CALENDAR. HENRY A. SCHRAMM and JACKSON D. HAWKINS, San Antonio, Tex. Filed June 11, 1920. Serial No. 388,094. 3 Claims. (Cl. 40—120.)



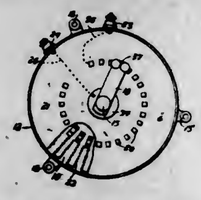
1. In a device of the class described the combination of a pair of slanting tables having a space therebetween, a block carried within said space, a bolt passing transversely through said block, strips carried by said bolt, a wire file carried between said block and said strips.

1,374,240. HOLDER FOR DISK RECORDS. CHARLES SCHULTZ, New York, N. Y. Filed Oct. 6, 1920. Serial No. 415,001. 3 Claims. (Cl. 35—12.)



1. In combination, with a record disk, an envelop for inclosing the record disk; and matter associated with the rendering of the disk record, and in separable parts, secured to said envelop and arranged for stripping therefrom for distribution when the disk record is rendered.

1,374,241. RHEOSTAT. WILLIAM SCHWAGERMANN, Yonkers, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed June 27, 1917. Serial No. 177,245. 22 Claims. (Cl. 219—53.)



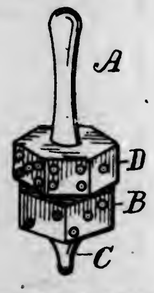
1. In the method of adjusting a rheostat so that its arm may smoothly engage the contact buttons in succession, the step which consists in deforming these contact buttons simultaneously and thereby bringing their surfaces into registry.

1,374,242. TOY GUN. ANDREW SEKULA, Washington, Pa. Filed Dec. 16, 1920. Serial No. 431,101. 5 Claims. (Cl. 124—12.)



1. In a toy gun, a barrel presenting an enlarged chamber at its outer end, a magazine element removably fitted into said outer end, and a plunger device in the barrel presenting an enlarged disk at its forward end located in the said chamber.

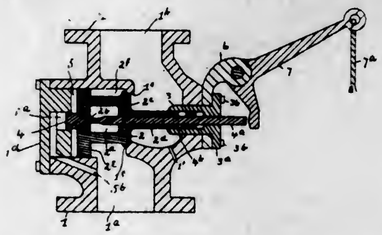
1,374,243. ROTATABLE DICE. FREDERICK W. SIEGEL, Newark, FREDERICK J. BOYLE, Harrison, and JOHN M. SIPP, Newark, N. J. Filed May 5, 1920. Serial No. 379,000. 6 Claims. (Cl. 46—56.)



1. A game implement used by spinning, comprising a central stem with spinning point at one end, a numbered die attached rigidly to the atem, and a die mounted rotatably upon the stem so as to be turned by the fixed die when the implement falls down.

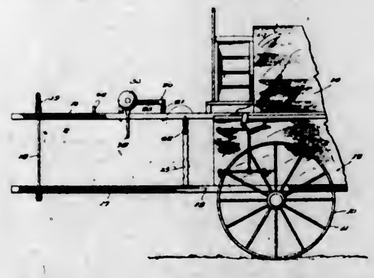
1,374,244. VALVE. WILLIAM N. SILVERNALE, Kawkawlin, Mich., assignor to Benson Electric Company, a Corporation of Minnesota. Filed Oct. 8, 1918. Serial No. 257,395. 1 Claim. (Cl. 137—139.)

In a valve, the combination of a housing comprising a body portion and a cover, said housing having a main valve seat formed therein, said housing having a main intake port formed therein at one side of said seat and a main exhaust port formed therein at the opposite side of said seat, a main valve head within said housing adapted to bear against said seat on the intake side thereof, said valve head being provided with a tubular valve stem extending through said seat and spaced therefrom, a stationary sleeve extending into one of the walls of said housing and engaging the free end of said stem, said main valve head having a steam chamber formed therein, said main valve head having an exhaust port formed therein leading from the steam chamber therein to said main exhaust port, the rearward end of said main valve head being spaced from the opposing inner face of said cover portion to form a steam chamber in rear of said main valve head when said valve head is closed against its seat, said main valve head having an intake port formed therein extending from the steam chamber in rear thereof to the chamber within said valve head, said housing having an intake port formed therein extending from said main intake port to said chamber in rear of said valve head, said main valve head having a valve seat formed in its rearward face concentric with the intake port through its rearward wall and concentric with the inward end of the port leading from



said main intake port to said rearward steam chamber, a supplementary valve head, extending into said rearward steam chamber and adapted to be seated against the seat formed on the rearward face of said main valve head and to close the intake port leading into the chamber in said valve head, said supplementary valve head being provided with a valve stem extending through the intake port in said main valve head and spaced therefrom and extending through the forward wall of said main valve head and main valve stem and sleeve longitudinally thereof and thence outwardly of said housing, travel limiting means mounted upon said auxiliary valve stem within said sleeve forward of said main valve stem, said main valve head having an annular external flange formed thereon adapted to contact with the side walls of said housing whereby a chamber or space is formed between said side walls and said main valve head forward of said flange, the latter chamber or space being open to said main intake port, and means for retracting said auxiliary valve head.

1,374,245. FEED-INDICATING APPARATUS FOR BALING-PRESSES. CHARLES E. SMITH, The Dalles, Oreg. Filed Oct. 30, 1919. Serial No. 334,470. 17 Claims. (Cl. 116—67.)



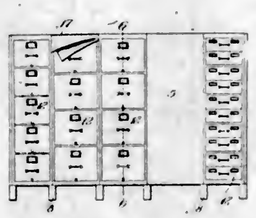
1. A feed indicator for baling presses including a signal, a plurality of signal operating members, and means to simultaneously engage and periodically release said signal operating members.

1,374,246. FUSE. ERNEST W. SNOW, Rochester, N. Y. Filed Aug. 14, 1919. Serial No. 317,525. 8 Claims. (Cl. 200—128.)



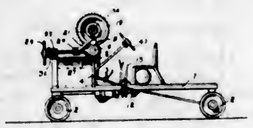
1. A support for a renewable fuse strip and adapted for insertion in an inclosing casing, comprising a body of rigid insulating material having surfaces in the same plane on its outer ends and adapted to support the laterally projecting ends of a fuse strip on said surfaces and provided with a recess between said ends through which the strip extends out of contact with the body.

1,374,247. FURNITURE-MODEL. ISAAC STEVENS, Rochester, N. Y., assignor to Yawman and Erbe Mfg. Co., Rochester, N. Y., a Corporation of New York. Filed Oct. 9, 1919. Serial No. 329,511. 2 Claims. (Cl. 46—37.)



1. An illustrative furniture model comprising a front, a top and two end portions of sheet material and a plurality of separate picture strips each representative of a section of elastic furniture pasted to the face of the front portion, the latter and the top being cut to a length that equals the sum of the widths of the picture strips.

1,374,248. DOOR-OPERATING DEVICE FOR HOPPER-CARS. SYLVESTER GEO. STEVENS, Duluth, Minn. Filed May 16, 1917. Serial No. 169,151. Renewed Dec. 9, 1920. Serial No. 429,583. 8 Claims. (Cl. 180—53.)



6. In a device of the character described, a supporting vehicle, a superimposed horizontally disposed reciprocable pivotally supported clutch carrying shaft carried by the vehicle and means for mechanically rotating same.

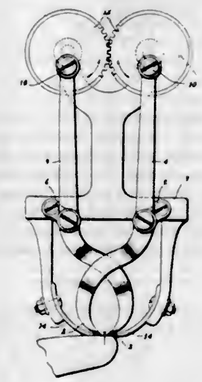
1,374,249. WINDOW FOR AUTOMOBILES. HORACE T. THOMAS, Lansing, Mich. Filed Jan. 13, 1919. Serial No. 270,826. 2 Claims. (Cl. 296—145.)

1. The top curtain for vehicles having a window opening therein, guides at the sides of said opening adapted to slidably receive and retain a window pane, a flexible transparent window pane adapted to cover said opening and have its side edges slidably engage in said guides, said pane being provided with a narrow stiffening part extending transversely thereof and rigidly secured thereto, the ends of said stiffening part slidably engaging in said



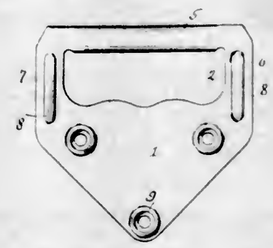
guides as as to prevent the displacement of said pane in a direction at right angles to the plane of said opening.

1,374,250. TACK-PULLING MACHINE. FRANK H. THOMPSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 11, 1919. Serial No. 303,293. 6 Claims. (Cl. 12—16.)



1. A tack pulling machine, comprising a pair of levers, oppositely rotating cranks connected to the ends of the levers, a tack pulling jaw supported upon the opposite end of each lever and a swinging link connected to each lever intermediate its ends.

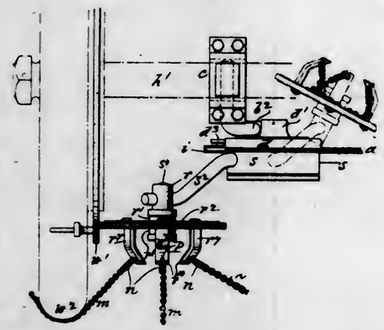
1,374,251. HANDLE. HARRY G. THOMPSON, Cleveland, Ohio. Filed Mar. 6, 1920. Serial No. 363,861. 2 Claims. (Cl. 16—10.)



1. A handle made of sheet metal comprising an integral body portion the body portion being provided with an

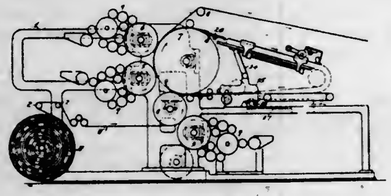
opening adjacent one end thereof and provided with a grip part which is formed by bending opposite flanges of metal so that they meet above the lower portion of the handle, the parts of the handle which connect the grip with the body portion being formed with upstanding ribs or beads, the body portion being provided with openings adapted to receive a fastening means, the metal surrounding the said openings being formed as a circular bead all for the purpose described.

1,374,252. ANTISKID DEVICE FOR AUTOMOBILES, &C. HAROLD THORNE, New York, and NICHOLAS D. MANOILOVICH, Astoria, N. Y.; said Manoilovich assignor to said Thorne. Filed Dec. 19, 1919. Serial No. 346,024. 16 Claims. (Cl. 188—4.)



1. In anti-skid mechanism, a rotor of the character designated formed with a contact disk having a frictional deterrent holder formed with a countersunk socket having a contracted entrance, and in combination therewith a frictional deterrent formed with a coupling pin having a head adapted to fit in said socket and a shank portion adapted to be passed through said contracted entrance to the countersunk socket, for the purpose described.

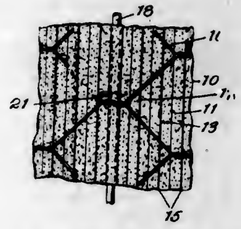
1,374,253. OFFSET-PREVENTING MECHANISM FOR PRINTING-MACHINES. ISIDOR TORNBERG, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Sept. 6, 1917. Serial No. 189,935. 15 Claims. (Cl. 101—419.)



1. In a printing machine, the combination with a printing couple, of a pile of offset sheets, and means for feeding offset sheets continuously thereto from the bottom of the pile, one such sheet being fed for each impression operation of the impression member of the couple.

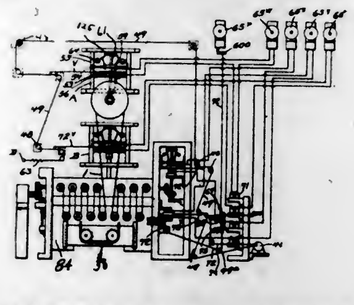
1,374,254. REINFORCED SHEATHING. ALFRED TURTON, Brooklyn, N. Y. Filed Oct. 21, 1919. Serial No. 332,184. 4 Claims. (Cl. 20—13.)

3. A sheathing, comprising a base element composed of a moisture resisting sheet member with a moisture resisting grooved sheet member on one of its faces providing air cells between the members, spaced metallic stays in a



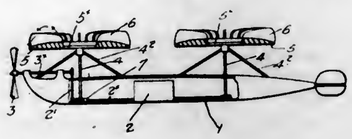
number of the air cells, and a metallic intersticed surface element on the exterior of the grooved member.

1,374,255. BURGLAR-ALARM SYSTEM. ROBERT W. VAIL, New York, N. Y. Filed July 11, 1917. Serial No. 179,864. 15 Claims. (Cl. 177—314.)



14. In a burglar alarm system the combination with an endless traveling element adapted to sound an alarm, of a governor operated by the endless cable, means adapted to electrically connect the governor with the alarm upon interruption of the movement of the cable, and means for preventing such electrical connection to defer the sounding of the alarm to a predetermined period, the last named means comprising a spring controlled insulating disk having orifices, and a clock to which the aforesaid rotatable disk is operatively connected and by which it is released at the desired time to permit of electrical connection between the governor device and the signal device being made through the orificed portions of the rotatable disk substantially as illustrated.

1,374,256. AERIAL LIFTING DEVICE. CORNELIS HENDRICK VAN ASPEREN, Toronto, Ontario, Canada. Filed May 6, 1918, Serial No. 232,985. Renewed Sept. 23, 1920. Serial No. 412,412. 1 Claim. (Cl. 244—19.)



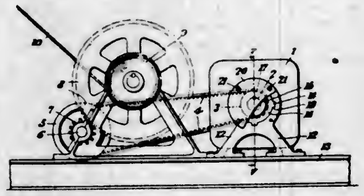
An aerial lifting device comprising an annular element rotatably mounted upon a vertical axis and having its upper surface curved outwardly and downwardly from its inner portion to its outer edge, and vertically disposed radial vanes carried by said upper surface and projecting upwardly therefrom and extending from said inner portion to said outer edge having free upper edges exposed to the atmosphere.

1,374,257. GLOVE. ARTHUR VAN RAALTE, New York, N. Y., assignor to Van Raalte Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 25, 1920. Serial No. 405,938. 2 Claims. (Cl. 2—9.)



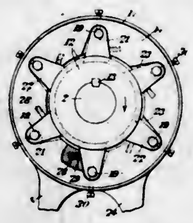
1. A glove having an opening over the position in which a wrist watch is worn, and a flap on said glove detachably secured over said opening.

1,374,258. BRAKE FOR ELECTRIC-MOTOR-OPERATED HOISTS. LUXA CARLO VITTORIO, Emerson, N. J., assignor to Thomas & Buckley Hoisting Co., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1920. Serial No. 404,766. 10 Claims. (Cl. 188—82.)



1. In an electric motor operated hoisting apparatus, the combination of a spiral gear fixed on the motor shaft, an annular gear having internal spiral teeth adapted to mesh with the teeth of the gear on the motor shaft, and means for guiding the annular gear to move endwise relatively to the other gear into and out of mesh therewith.

1,374,259. BRAKE FOR ELECTRIC-MOTOR-OPERATED HOISTS. LUXA CARLO VITTORIO, Emerson, N. J., assignor to Thomas & Buckley Hoisting Co., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1920. Serial No. 404,767. 5 Claims. (Cl. 188—82.)



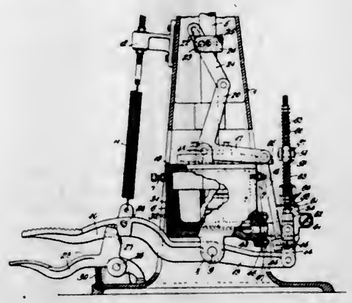
1. In an electric motor operated hoisting apparatus, the combination with the armature shaft of the motor of a brake drum fixed on the shaft having an external friction surface, a series of brake shoes around the perimeter of the drum pivotally supported adjacent their outer ends to swing about axes extending transversely of the drum and each having a drum-engaging friction surface at its inner end curved on the same arc as the friction surface of the drum, and means for limiting the pivotal movement of the brake shoes in one direction to positions in which the friction surfaces thereof are concentric with the friction surface of the drum.

1,374,260. COMBINATION CLOTHES HANGER AND STRETCHER. THEODORE VRBIC, Chicago, Ill. Filed June 16, 1920. Serial No. 389,372. 1 Claim. (Cl. 223—19.)



A combination clothes-hanger and stretcher comprising a substantially triangular clothes-hanger; a stretching bar mortised with one end into the base-bar of the clothes-hanger at the middle thereof and extending a right angles therefrom; a second stretching bar of substantially equal length with the first mentioned stretching bar hinged to the other end of the first mentioned stretching bar, and carrying a cross-bar at its other end, being mortised into the same; clamping bars, of substantially equal length with said base-bar and cross-bar, hinged thereto, respectively; screw-eyes in the base-bar and cross-bar, respectively, adapted to project into slots in the free ends of said clamping bars; pins adapted to coöperate with said screw-eyes for locking said clamping bars; screw-eyes projecting from the rear of the stretching bars near their middle; a locking bar pivoted with one end on a pin engaging the screw-eye projecting from one of said stretching bars and adapted to have its other end engaged by a pin entered into the screw-eye projecting from the other of said stretching bars; and a hook attached to the clothes-hanger; substantially as and for the purpose described.

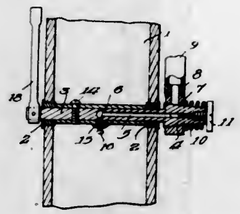
1,374,261. PRESSING-MACHINE. CHARLES E. WARREAM and GEORGE N. LINK, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed July 10, 1918. Serial No. 244,204. 5 Claims. (Cl. 68—9.)



1. In a press, a frame, a stationary pressing member carried thereby, a lower pressing member guided for move-

ment vertically into pressing engagement with the stationary member, an operating shaft mounted vertically in the frame and operatively connected to said lower pressing member, a fluid cylinder and piston motor in alinement with said operating shaft and having connections therewith for directly operating the same, treadle mechanism for moving said lower pressing member into engagement with the stationary member, and means for controlling said fluid cylinder and piston motor.

1,374,262. FUEL-CONTROL VALVE FOR CARBURETERS. VICTOR E. WASSERLEIN, New York, N. Y., assignor to Wasserlein, Froes Company, Inc., a Corporation of New York. Filed Apr. 9, 1917. Serial No. 160,778. 1 Claim. (Cl. 261—51.)



The combination with a casing, of a valve stem journaled transversely therein and having an external plug valve portion, said stem being formed for a major portion of its length with a bore having lateral portions opening through said stem and the plug valve, a fuel supply means fitted on the plug valve, means active upon said fuel supply means to effect a fluid tight joint between the same and the plug valve, a butterfly valve fitted upon the valve stem and movable therewith, said butterfly valve being formed with a discharge way communicating with the bore in the valve stem and disposed at right angles to said bore, an enlargement formed on the butterfly valve and having outwardly divergent air ducts communicating with said bore, and a screw adjustably fitted within the enlargement and adapted to intersect the ducts.

1,374,263. GREASE-GUN. WILLIAM U. WATSON, Chicago, Ill. Filed Aug. 22, 1919. Serial No. 319,106. 14 Claims. (Cl. 221—79.)



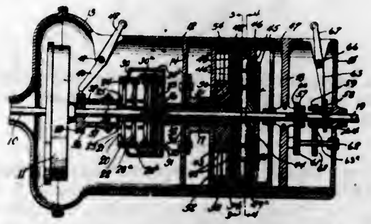
1. A grease gun having a cylinder, a piston rod and plunger, an apertured cylinder head through which the grease may be ejected, and a stripping ring slidable along the cylinder for stripping the grease from the external surfaces of the cylinder after it has been plunged into a body of grease.

1,374,264. HAIRPIN. GEORGE W. WEBER, Watertown, Wis. Filed Aug. 23, 1920. Serial No. 405,488. 4 Claims. (Cl. 132—22.)



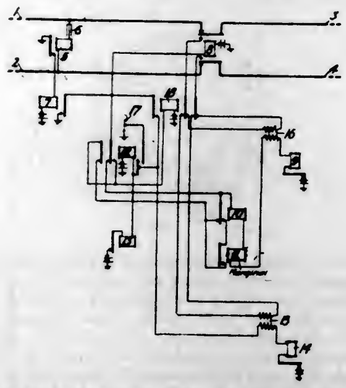
1. A hairpin or the like having a pair of legs, a portion of one leg being of greater width than the adjacent portion of the other, the leg of the lesser width being in cooperation with one surface of the widened portion of the other leg between the longitudinal edges thereof.

1,374,265. TRANSMISSION MECHANISM FOR AUTOMOBILES. WILLIAM I. WHEELER, Scottsville, Ill. Filed Apr. 28, 1919. Serial No. 293,200. 10 Claims. (Cl. 74—34.)



1. A speed changing mechanism including a driving shaft, a driven shaft, a plurality of clutch members mounted upon the driving shaft and including radially disposed arms, clutch members mounted upon said driven shaft corresponding in number and relation to the clutch members of said driving shaft, an expansible and contractible circular band operatively supported on the arms, crossed levers operatively connected to said band, the long arms of said levers extending across the radial arms and being guided thereon, a spring engaging the long arms of the levers and drawing them toward each other to cause a contraction of the band, and an actuating member mounted to rotate with the driving shaft but longitudinally shiftable therealong and having cam faces engaging between the long arms of the levers to thereby expand the band connected thereto and engage any one of the clutch members on the driving shaft with the corresponding clutch member operatively connected to the driving shaft.

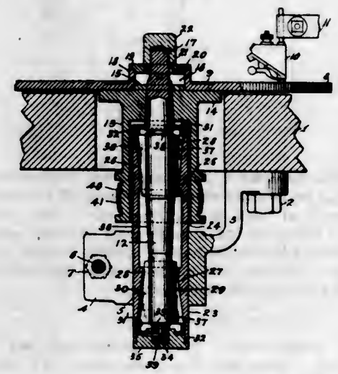
1,374,266. GENERATING SYSTEM. CHARLES WHITE, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1918. Serial No. 259,366. 5 Claims. (Cl. 171—97.)



3. In a generating system, a transmission line circuit, a source of current adapted for association therewith,

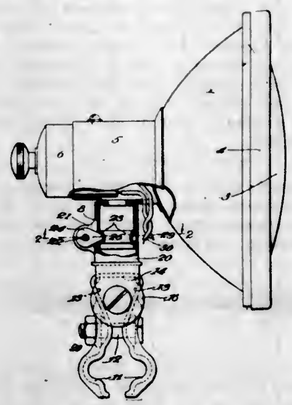
controlling means associated with the line for connecting such source with the line, another source of current, switching means controlled by the inoperative condition of the first mentioned source for removing such source from the control of the first mentioned means and for placing the other source under the control of such means, independently controlled means for maintaining such other source under the control of the first mentioned means, and a signaling device controlled thereby.

1,374,267. DIAMOND-POLISHING MACHINE. GEORGE R. WHITEHEAD, New York, N. Y. Filed Apr. 28, 1920. Serial No. 377,171. 16 Claims. (Cl. 64—56.)



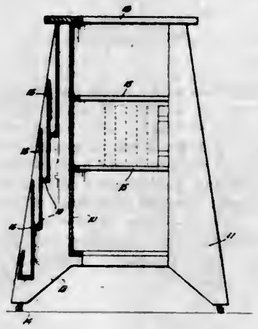
1. In a diamond polishing machine, the combination of a horizontal polishing wheel, a sleeve located below the wheel, means for securing the wheel to the sleeve, a spindle fast to the sleeve, means for driving the sleeve, a lubricant holding casing below the wheel, upper and lower bearings in the casing in which the spindle rotates, and means for lubricating both bearings.

1,374,268. LAMP-SUPPORTING DEVICE. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corp., Chicago, Ill., a Corporation of Virginia. Original application filed Dec. 5, 1919, Serial No. 342,586. Divided and this application filed June 23, 1920. Serial No. 391,128. 3 Claims. (Cl. 240—57.)



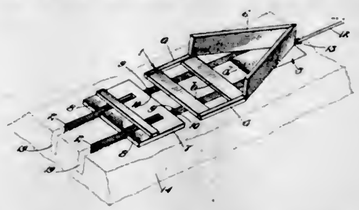
1. In combination with a vehicle lamp provided with a supporting stem, a holder embracing said stem and provided with a pair of perforated ears spaced apart, a clamp comprising a pair of jaws formed integrally of the respective ends of a sheet metal member folded at two places near the middle of its length, to leave a transverse middle portion connecting the two jaw-carrying parts, perforated ears bent from the edges from said middle portion on to the adjacent edges of the jaw-carrying part to provide bearing area for the ears of the stem holder which are lapped over them and a pivot bolt extending through the ears of both parts holding them in frictional engagement.

1,374,269. BOOKCASE AND MAGAZINE-HOLDER. WALTER CLEMENT WILSON, Johnson City, Tenn. Filed June 14, 1920. Serial No. 388,815. 1 Claim. (Cl. 45—1.)



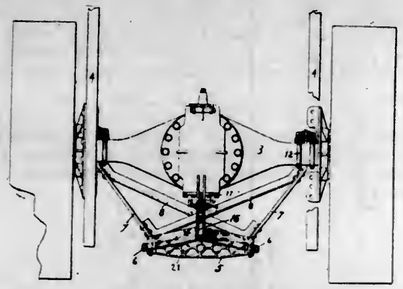
An article of manufacture including a central frame having vertically spaced shelves, uprights supporting the frame and arranged to extend laterally thereof at the forward and rear portions of its sides, vertically and laterally offset panels in series between the said uprights at opposite sides of the frame, and bottom strips between the several panels and forming therewith periodical holding compartments, said panels having vertical series of openings, and adjustable connecting pins extending through openings in the bottom strips and adapted to be projected through selected openings of the panels in order to adjustably hold the bottom strips and in this way regulate the depth of the compartments.

1,374,270. METHOD OF AND APPARATUS FOR MAKING BUILDING-BLOCKS. ANTHONY M. ZOTTOLI, Quincy, Mass. Filed Mar. 15, 1919. Serial No. 282,857. 22 Claims. (Cl. 25—155.)



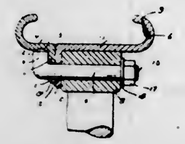
20. A method of casting concrete characterized by presenting to an unconfined mass of sand a pattern device having a cavity forming portion and a sustaining portion, moving the device along the unconfined mass of sand to advance the cavity forming portion through the sand to produce an elongated cavity, while the sustaining portion rests on the surface of the unconfined mass of sand adjacent the elongated cavity, placing partition members at intervals in the elongated cavity to divide the same into a plurality of molds, and then pouring plastic concrete in the molds thus formed.

1,374,271. HITCH FOR TRACTORS. HERBERT W. ALDEN, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Sept. 15, 1919. Serial No. 323,833. 10 Claims. (Cl. 213—67.)



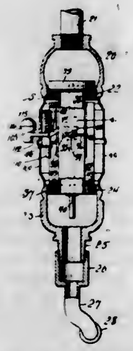
1. The combination with an axle having brackets rigidly mounted thereon, of a hitch pivotally attached to said brackets to swing vertically, said hitch comprising side frame members, a draft beam supported thereby, and a suspending hanger therefor, said hanger being adjustably connected to the axle and adapted to be held in adjusted position to prevent vertical movement of said hitch.

1,374,272. WHEEL-RIM. HENRY CLAY BABEL, Buffalo, N. Y. Filed Jan. 31, 1919. Serial No. 274,215. 3 Claims. (Cl. 152—21.)



1. A wheel rim comprising a stationary member, a detachable member, and fastening means for the detachable member comprising a plurality of pivot-bolts, each having an L-shaped head, the underside of the detachable member being provided with means for effecting a springing engagement with the ends of the L-shaped heads, whereby they are locked in place.

1,374,273. AUTOMATIC VALVE-CLOSER. AURELIO BARCHIESI, Jersey City, N. J., assignor of one-fifth to Angelo Baratta, Jersey City, N. J., and one-fifth to Giovanni Squarcialupi and one-fifth to Louis L. Bolline, New York, N. Y. Filed May 28, 1920. Serial No. 384,797. 4 Claims. (Cl. 67—117.)



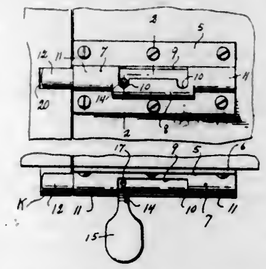
1. In a valve closer the combination of a valve, a slide plate moving with the valve, means to manually raise the valve with the slide plate, a pair of locking heels in the slide plate, a pair of bell cranks, pivoted adjacent to the slide plate, a locking pin on one of the arms of each bell crank and a pair of springs within the heat zone of the light to be controlled, one of said springs coacting with one of said bell cranks and the other spring coacting with the other bell crank.

1,374,274. SPRAYER ATTACHMENT. JAMES BARRETT, Murdock, Minn. Filed June 5, 1920. Serial No. 386,754. 1 Claim. (Cl. 299—30.)



In combination with a wheel supported implement having a pair of rearwardly extending beams, of a transverse brace secured at each end to the rear of one of said beams, said brace having a rearwardly inclined aperture at its middle adapted to hold a nozzle, a hose having said nozzle at one end, and means at the other end of the hose for forcing liquid therethrough.

1,374,275. DOOR-BOLT. HARRY A. BECKER, San Francisco, Calif. Filed May 24, 1920. Serial No. 383,905. 4 Claims. (Cl. 292—57.)



1. A door bolt comprising a base including a housing, a portion of said housing being enlarged, the portion of said housing opposite the enlarged portion being slotted, a locking bolt rotatably and slidably mounted in said housing, said bolt having a laterally extending threaded opening, and an adjustable latch pin extending through said opening and slidable through said slot and within said enlarged portion to prevent unobstructed movement of the locking bolt.

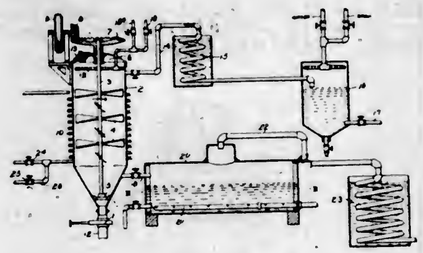
1,374,276. SOFT-COLLAR HOLDER. ARTHUR L. BOTTOMLEY, Attleboro, Mass., assignor to F. H. Sadler Company, Attleboro, Mass. Filed Feb. 12, 1921. Serial No. 444,332. 5 Claims. (Cl. 24—81.)



1. In a soft collar holder, a central member having spaced top and bottom rearwardly extending flanges, a looped member having its sides at the center thereof pinched together and engaged between said flanges, the looped ends of said member projecting beyond the respective ends of the central member, and a gripping member

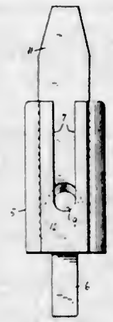
having approximately V-shaped jaws adjacent its ends extending into the looped ends of the loop member, the ends of the gripping member being curved outwardly and spaced from the looped ends of the loop member, the flanges of the central member being bent inwardly to clamp the central part of the gripping member against the rear side edges of the central part of the loop member.

1,374,277. LUBRICATING-OIL. ROY H. BROWNLEE, Pittsburgh, Pa. Original application filed May 13, 1918, Serial No. 234,077. Divided and this application filed Nov. 23, 1918. Serial No. 263,829. 9 Claims. (Cl. 196—22.)



1. A lubricating oil of synthetic production having a high flash point and low cold test in relation to its viscosity; such relations being indicated by a flash of 425° Fahrenheit to 450° Fahrenheit and a cold test of approximately −4° Fahrenheit for a cut having a viscosity of 76 at 212° Fahrenheit.

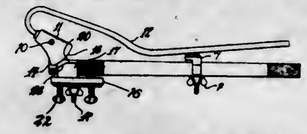
1,374,278. DEVICE FOR CUTTING WIRE CABLE. JULIUS GORDON BURCH, Bartlesville, Okla. Filed Aug. 25, 1919. Serial No. 319,649. 1 Claim. (Cl. 164—47.)



In a device for cutting cable, a member furcated to form spaced side walls adapted to receive therebetween said member being provided with a cable, a rigid arcuately curved base upon which the cable rests, the side walls having registering grooves formed therein, the base having formed therein a recess connecting the lower ends of said grooves, said recess combining with the base to form at one end thereof a cutting edge and a cutting member slidably mounted in said grooves and slidably engaging with one of its side faces the cutting edge of said base, said cutting member having the lower edge thereof tapering downwardly toward the last named face to provide a cutting edge coacting with the cutting edge of said base.

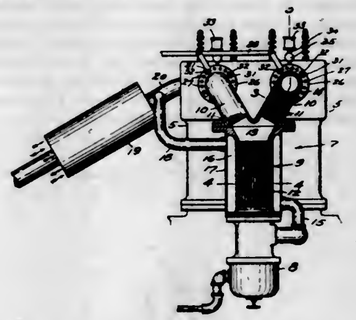
1,374,279. SAW-SET. GARRETT BYRNS and HENRI SANCHE, Rainy River, Ontario, Canada. Filed Mar. 31, 1920. Serial No. 370,216. 1 Claim. (Cl. 76—63.)

A saw set consisting of a base, an upright portion at one side of said base, a slot in said upright portion, an operative head hingedly connected in said slot, said head having a handle attached thereto, said head having a rounded eccentric inner face, a slot cut in said base, an adjustable member carried in last said slot and adapted to hold a saw against said upright portion, a setting block carried on a suitable base, a suitable opening under said



head in said base for the reception of said setting block, a means for attaching said setting base to said first base, a means for changing the relative position between said setting block and said head when in closed position so that various settings of saws may be accomplished.

1,374,280. HEATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. DANIEL G. CHISHOLM, Seattle, Wash. Filed June 24, 1920. Serial No. 391,408. 4 Claims. (Cl. 123—122.)



1. In an internal combustion engine, the combination with the engine body, an intake manifold, an exhaust pipe and a carbureter connected to said manifold, of an air heating drum surrounding said exhaust pipe, an air heating casing surrounding said manifold, pipe connections between said drum and the casing and also between the latter and the air intake opening of the carbureter, groups of tubes provided within said manifold, said groups being disposed in spaced relations with each other, said manifold being provided adjacent to its outlet ends with air inlet openings, and means for regulating the effective sizes of said inlet openings.

1,374,281. SPARK-PLUG. ERNEST L. COLBY, Pueblo, Colo. Filed Mar. 16, 1920. Serial No. 366,285. 6 Claims. (Cl. 123—169.)



1. A spark plug including with a shell having a chamber at its inner end, a plurality of obliquely arranged

baffles in staggered relation within said chamber with their inner edges extending past the axial center of said chamber and angularly toward the open end thereof.

1,374,282. ADVERTISING-SIGN. RICHARD MORGAN CRAIG, San Antonio, Tex. Filed May 7, 1917. Serial No. 166,995. 6 Claims. (Cl. 40—130.)



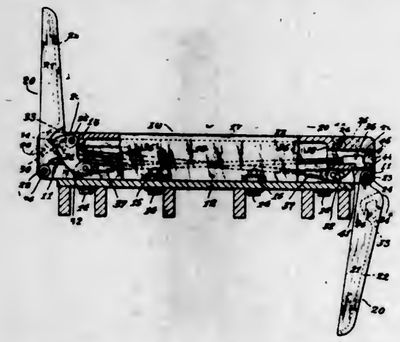
6. In a device of the class described, a display surface bearing in different colors different matters to be displayed, the components of the two matters being arranged without regard to the arrangement of each other, means for imparting travel to the said surface, and means for independently displaying each of said matters by displaying said surface successively in the presence of color media each capable of absorbing a respective one of said colors.

1,374,283. KNOTTER. ALBERT EARL CRANSTON, Spokane, Wash. Filed Sept. 6, 1919. Serial No. 322,086. 11 Claims. (Cl. 140—101.)



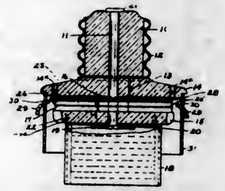
10. A knotter comprising, a stationary member, a pair of movable members coacting with the stationary member to receive and grip the ends of a loop of wire in a manner to effect a twisting and cutting thereof, and a plate biased toward one of the movable members and coacting therewith to frictionally hold one of the cut ends of the wire within the knotter when said movable member is moved.

1,374,284. LOG-BUNK. CHARLES O. DALE, Seattle, Wash., assignor of one-half to Axel Peterson, Seattle, Wash. Filed Feb. 7, 1920. Serial No. 357,020. 1 Claim. (Cl. 105—384.)



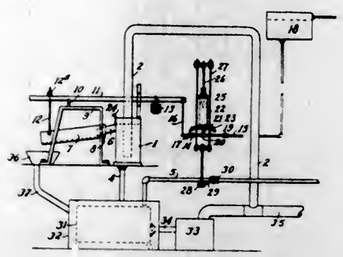
In combination with a log bunk having end passages therein, a stake pivoted adjacent each end passage, the bottom wall of each passage being cut away at the outer ends of the bunk to provide an abrupt shoulder, a locking member pivotally mounted at each end of the bunk and adapted to engage the adjacent stake to hold the same in vertical position, an extensible locking rod connected to each locking member, a latch device carried by the end of the locking rod and extending through the end passage of the bunk and constructed for engagement with the abrupt passage shoulder of the bottom wall of the passage at the opposite end of the bunk, and means carried by the bunk within the passage for holding the latch device in engagement with the shoulder.

1,374,285. ELECTRIC REGULATOR. RHYS DAVIES, Fort Wayne, Ind. Filed May 9, 1919. Serial No. 295,960. 5 Claims. (Cl. 219—48.)



1. In an electric regulator a resistance coil, a series of contacts, on the coil having connection with the resistance at selected points thereof and arranged in a curved line extending outwardly from the center of the coil, a movable contact adapted to be moved into successive engagement with the contacts, and an electrical circuit having connection with the movable contact and with the resistance coil.

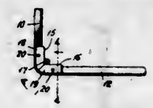
1,374,286. STUFF-REGULATOR. LEMUEL B. DECKER, KENOGAMI, Quebec, Canada. Filed Nov. 19, 1919. Serial No. 339,189. 5 Claims. (Cl. 92—46.)



1. A stuff regulator comprising a receptacle; means for introducing pulp into said receptacle; a discharge outlet from said receptacle; a water pipe; and a movable member positioned to receive the discharge from said outlet; in combination with a vertically positioned cylinder; a piston within said cylinder; means for introducing liquid under pressure beneath said piston; means whereby the movements of said member may vary the liquid pressure beneath said piston; and means whereby the said variations in pressure may automatically vary the flow in said pipe.

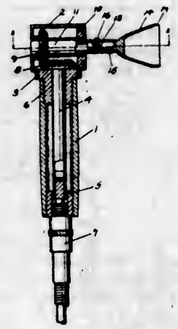
1,374,287. SPECTACLES. LOUIS DUNKELSBERG, Brooklyn, N. Y. Filed Sept. 24, 1919. Serial No. 325,851. 4 Claims. (Cl. 88—53.)

1. The combination of lens frames of the kind described; lugs projecting outwardly therefrom, a pair of temples and hinges constituting units distinct from said lugs and temples comprising channeled members one of which is



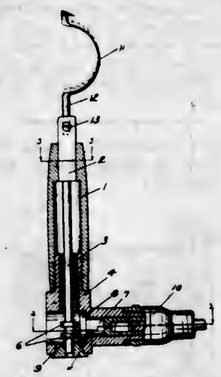
fitted over one of said lugs and the other of which is fitted over one of said temples whereby the latter are pivotally connected with said lens frames.

1,374,288. PEACH-PITTING TOOL. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919. Serial No. 273,590. 1 Claim. (Cl. 146—6.)



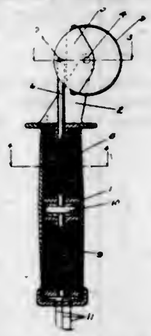
In a pitting or coring tool, the combination of a suitable handle, an axially disposed driving shaft therein, a head on the handle with a transversely disposed shaft, a hollow conical cutting tool with shank from the apex and with peripheral cutting edge beveled from the outside carried by the said driven shaft, coacting substantially as described for the purpose specified.

1,374,289. PARING AND PITTING KNIFE. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919. Serial No. 273,591. 1 Claim. (Cl. 146—6.)



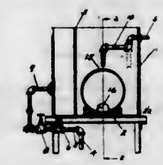
In a paring and pitting knife, the combination of a handle, a slide axially disposed within the handle and a means to reciprocate the slide, and a curved knife axially disposed to said handle and carried by said slide and adapted to be reciprocated thereby, as specified.

1,374,290. PITTER-KNIFE. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919. Serial No. 273,594. 1 Claim. (Cl. 146—6.)



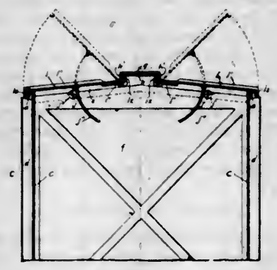
In a pitting knife, the combination of a hollow handle, a reciprocating bar disposed longitudinally thereof, with an armature thereon, electro-magnets disposed to act upon the said armature alternately to cause vibration, a fork on the end of said handle, a rocker pivoted between the arms of said fork and connected to said reciprocating bar, and a curved blade carried by the said rocker, the blade being the arc of a circle, the center of which is the pivot of oscillation, all coacting substantially as described for the purpose specified.

1,374,291. MIXING-TANK. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919. Serial No. 273,600. 6 Claims. (Cl. 23—31.)



3. The combination of a mixing tank, a screen partition therein to separate a portion therefrom, a discharge pipe with valved connections at the bottom and at one side of the tank for discharging the contents of the tank, and a drum with open top side and ends on a supporting cradle, coacting as specified.

1,374,292. FREIGHT-CAR. HARRY M. FARRAND, Cleveland, Ohio. Filed July 20, 1917. Serial No. 181,758. 17 Claims. (Cl. 105—377.)



2. In a top-dumping car, the combination with a carbody affording substantially unobstructed sides, of roof-

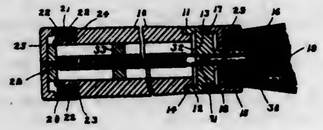
sections having down-turned edges hinged near the center of the car and extending beyond and interlocking with its sides, and selective individual elevating and locking mechanism respectively associated with the roof-sections upon either side of the car, adapted alternatively to raise, lower and lock said sections as required, substantially as set forth.

1,374,293. WIRELESS DIRECTION-FINDER. REGINALD A. FESSENDEN, Chestnut Hill, Mass. Filed July 28, 1919. Serial No. 313,726. 1 Claim. (Cl. 250—11.)



In the art of direction finding, the method of determining the direction of a source of radiant energy from an observing station, which consists in taking a plurality of observations at the observing station, at different wave frequencies of the energy emitted from the radiant station, of the direction of the waves received from said radiant station, and from the amount of the discrepancy between said observations, determining the amount of bending, of said waves and the true direction of the radiant station.

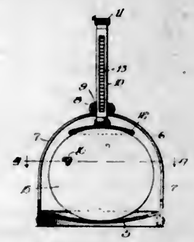
1,374,294. FOUNTAIN-BRUSH. RICHARD J. D. FISHER, Philadelphia, and ISABEL DE A. HOLT, Mount Airy, Pa. Filed Jan. 24, 1921. Serial No. 439,461. 5 Claims. (Cl. 15—50.)



1. A fountain brush comprising a reservoir, a closure at one end of said reservoir including a feed-tube having spaced valve seats therein, a brush adapted for fitment on said closure, spiral grooves formed on the other end of the reservoir and interrupted at intervals, a threaded rod axially mounted in the reservoir, said rod including spaced valve portions for coöperation with the aforesaid valve seats, a follower on said threaded rod and a manipulating cap having inwardly projecting pins for engagement in the spiral grooves, said cap being adapted when turned in one direction to intermittently open the valves for feeding material from the reservoir to the brush and when turned in the opposite direction to lock the valves closed upon their seats.

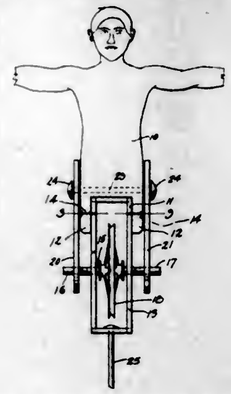
1,374,295. PNEUMATIC JACK. LOUIS A. FLEURY, Indianapolis, Ind. Filed Apr. 28, 1919. Serial No. 293,235. 3 Claims. (Cl. 138—9.)

3. In a lifting jack, the combination, of a base, a frame secured thereto, a single substantially spherical collapsible chamber mounted on said base and within said frame, a lifting member extensibly and retractably mounted in



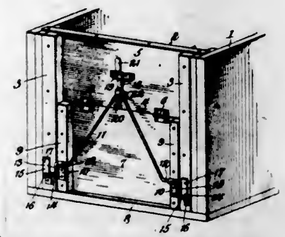
said frame and seated on said spherical chamber, and means for controlling the movement of said lifting member.

1,374,296. FIGURE WHEELED TOY. HARRY E. GREEN, Hampton, New Brunswick, Canada. Filed July 17, 1919. Serial No. 311,589. 3 Claims. (Cl. 46—45.)



1. In a toy, the combination, of a body, simulating a human torso provided with a recess extending upwardly thereinto from its lower end, a supporting frame extending into said recess, a crank axle rotatably carried by said supporting frame, and having crank portions on each end, a wheel mounted on said crank axle for rotating the crank axle, legs for said body connected to the front portions of said axle, said legs provided with inclined slots in their upper portions opening out to their upper ends, a pin extending transversely through said body and engaging through said slot to connect the legs to the body for permitting limited oscillatory movement of the legs upon rotation of the axle.

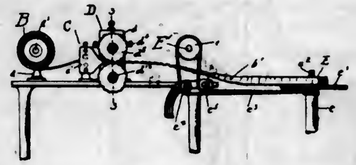
1,374,297. WAGON END-GATE. JOHN GROSS, Carroll, Iowa. Filed May 24, 1919. Serial No. 299,456. 5 Claims. (Cl. 296—51.)



1. An end gate structure comprising a hinged gate-board, a latch above the gate-board, and means on the

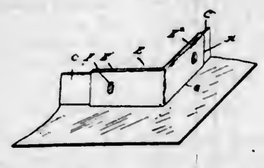
gate-board for locking the same in closed position or for sustaining the same in wide-open position, said means being engageable with one end of the latch when functioning as a lock and being engageable with the opposite end of the latch when functioning as a support.

1,374,298. MACHINE FOR CORRUGATING RADIATOR-PLATES. VITA HABIB and LEON BENMAYOR, Cincinnati, Ohio. Filed Nov. 1, 1919. Serial No. 335,070. 2 Claims. (Cl. 153—77.)



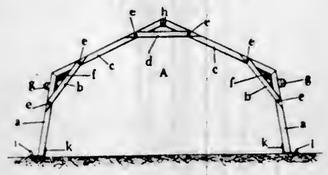
2. A machine for corrugating automobile radiator plates comprising a corrugating mechanism and a guide mechanism, the corrugating mechanism consisting of rolls built up by a series of corrugating disks, and the guide mechanism consisting of parallel plates adapted to support a width of radiator plate material between them, and means for adjusting the plates.

1,374,299. ROOFING-SHEET. DAVID W. HAWKSWORTH, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Filed June 21, 1919. Serial No. 305,790. 4 Claims. (Cl. 105—377.)



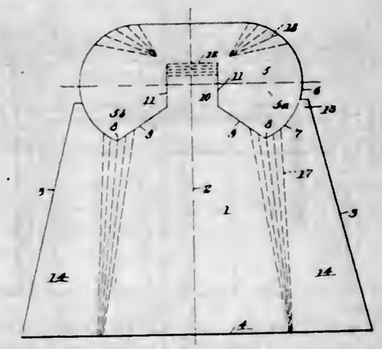
3. The combination with a roofing sheet having an aperture therein, of upstanding bent flanges on angling sides of said aperture, said flanges being severed from each other at the corner, and a complementary corner section overlapping the adjacent upstanding flanges and mechanically locked thereto, said section being soldered at its edges to form a water-proof joint.

1,374,300. TENT OR THE LIKE. RENÉ ACHILLE HENRY, Paris, France. Filed June 26, 1919. Serial No. 306,988. 2 Claims. (Cl. 135—4.)



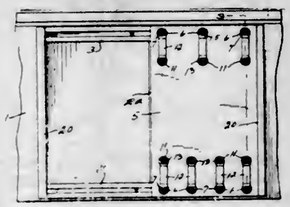
2. A tent having a series of similar truss members each comprising a pair of posts, a pair of rafters, angle braces connecting adjacent posts and rafters and a tie beam connecting the rafters all permanently jointed together so as to be capable of folding against each other, fixed hooks for connecting the posts and rafters when the truss is erected, fixed bolts on the posts, and connecting straps having slots for engaging the said fixed bolts so as to retain the trusses in the erected position.

1,374,301. RAINCOAT. FRANK W. HOWARD, New York, N. Y. Filed Oct. 16, 1919. Serial No. 330,970. 6 Claims. (Cl. 2—60.)



1. A rain-coat having an armless skirt-portion with a back extending upwardly at the rear, said skirt-portion having a pair of forwardly disposed flaps overlapping each other at the front lower portion, and having inclined forward edges diverging from each other from an elevated point at the front of the garment whereby an increased width of overlap of said flaps is produced at the lower edge of the skirt-portion, a cape having two front flaps and a collar connecting with said back at the upper end thereof whereby the rear portion of the cape is suspended from said collar, said skirt-portion having forward extensions extending upwardly under said cape and attached respectively to the front flaps of said cape, said skirt-portion having plaits at the sides thereof, and a cord passing around the outer side of the skirt at said plaits.

1,374,302. HANGER FOR CAR-DOORS. CHARLES H. JORDAN, San Antonio, Tex. Filed Dec. 15, 1920. Serial No. 431,030. 3 Claims. (Cl. 16—7.)

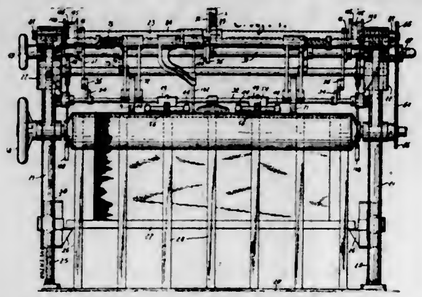


1. In a car door hanger, the combination with upper and lower channel guides, of a door arranged adjacent the door opening of the car, journals adjacent the upper and lower parts of the door and extending transversely at right angles thereto, said journals having inwardly and outwardly extending parts, rollers or wheels mounted on the inwardly extending parts, means for holding the wheels or rollers thereon, straps connected to the outer face of the door and having their ends engaged with the end portions of the outwardly extending parts of the journals, sleeves mounted on the outwardly extending parts under the extremities of the straps, and means such as nuts engaging the extremities of the outwardly extending parts to hold the straps and sleeves in position, thereby reinforcing the journals rigidly at right angles to the door.

1,374,303. PAPER-FEEDING MACHINE. JOSEPH KLEIDMAN, New York, N. Y. Filed Jan. 24, 1918. Serial No. 213,546. 17 Claims. (Cl. 271—43.)

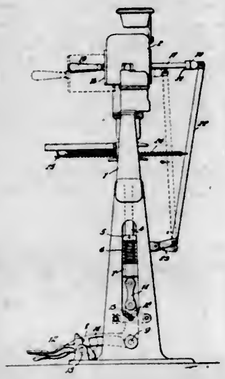
4. In a machine for feeding sheets of paper from a pile, the combination with a frame having a bodily motion to

and from the front edge of the sheets, of a shaft oscillatably mounted on said frame, a roller on said shaft adapted to engage the sheet to be fed on the feeding



stroke of said frame, a block attached to said shaft, and means for causing said block to engage said sheet at a predetermined point from the front edge of the latter.

1,374,304. WORK-HOLDER FOR SMALL PRESSES. GEORGE N. LINK, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed May 7, 1919. Serial No. 295,284. 4 Claims. (Cl. 68—9.)



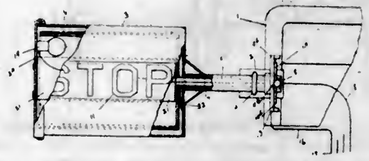
2. A pressing machine, comprising a stationary pressing head, a coöperating bed vertically movable beneath the same, a work holding table movable relatively to said bed into and out of registering relation with said head, and yielding means normally moving said table to said latter position.

1,374,305. ART OF BOOKBINDING. OTTO LÜTOLF, St. Gallen, Switzerland, assignor to Johanna Lütolf-Bill, St. Gallen, Switzerland. Filed Jan. 27, 1920. Serial No. 354,395. 2 Claims. (Cl. 281—25.)



2. The herein described method of wire-stitching sheets or signatures to the cross-tapes, which consists in driving the staple, which comprises a bridge portion and two rectangularly extending shanks, through the fold of the sheets or signatures from within outwardly, sharply inbending the free extremities of the staple shanks at a slightly acute angle and their inbent portion being longer than the combined thickness of cross-tape and sheets, inserting the cross-tape between the shanks, bending down the shanks onto the tape, forcing thereby the said inbent shank extremities through the tape and underlying sheets and causing them to be clenchingly deflected by the staple bridge.

1,374,306. AUTOMOBILE-SIGNAL. DANIEL F. MCGILL, Portland, Oreg. Filed Jan. 29, 1917, Serial No. 145,280. Renewed June 15, 1920. Serial No. 407,260. 2 Claims. (Cl. 177—327.)



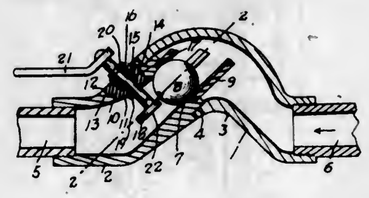
1. A signal device of the character referred to, comprising in combination, an outer casing provided at one end with a supporting arm, and at its opposite sides with display openings, an inner casing provided at one end with a supporting arm extending through the supporting arm of said outer casing and revoluble therein, said inner casing being provided with signal words adapted to be turned into register with said display openings, an electric lamp within said inner casing, a source of electric energy connected therewith, an operating member secured to the arm of said inner casing for turning the same, positioning means adapted to hold said operating member in different positions of adjustment, and means whereby said operating member completes the circuit connections to said lamp when moved into its different signaling positions, substantially as described.

1,374,307. TUBING CATCHER OR HOLDER. WILLIAM H. MCKISSICK, Tulsa, Okla., assignor of one-half to Dunn Manufacturing Company, Oxnard, Calif., a Corporation of California. Filed July 2, 1919. Serial No. 308,079. 11 Claims. (Cl. 105—65.)



1. The combination, with well casing, and a string of tubing in the well casing; of a wedge body mounted in connection with the tubing, a slip mounted in connection with the wedge body and adapted to be expanded thereby into position to engage with the casing and suspend the tubing, a weight slidable upon the tubing beneath and independent of the slip, the weight being frictionally engaged with the casing; whereupon the slip will be held to wedge action by the temporarily arrested weight upon abrupt fall of the tubing.

1,374,308. VALVE. ALBERT HAROLD MACISAAC and THOMAS CHAMPAGNE, Toronto, Ontario, Canada. Filed July 9, 1920. Serial No. 395,151. 1 Claim. (Cl. 251—131.)



A valve casing, comprising a tubular body formed in two portions one of such portions having an upwardly inclined bent end terminating in an exteriorly threaded reduced portion and provided with an internal valve seat within such reduced portion, and the other valve body portion bent upward and then downward and provided at its extremity with an internally threaded portion engaging the aforesaid exteriorly threaded portion, a valve for the seat, and means operating beneath the valve for lifting the valve off its seat against fluid pressure.

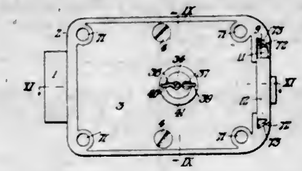
1,374,309. MILK AERATOR AND COOLER. CYRUS W. MACKENZIE, Waverly, Ind. Filed Apr. 24, 1920. Serial No. 376,301. 5 Claims. (Cl. 230—27.)



1. An aerating device comprising a pump, outlets projecting from the sides of the pump adjacent one end thereof, an air inlet member carried by and communicating with the pump, and a valve in the pump and the air inlet member.
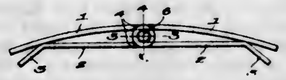
1,374,310. CHANGEABLE-COMBINATION KEY-LOCK. EDWARD WILLEY MARVEL, Philadelphia, Pa. Filed Jan. 7, 1920. Serial No. 349,930. 22 Claims. (Cl. 70—70.)

22. In a changeable combination lock, the combination with a reciprocatory locking bolt; of tumbler mechanism arranged to detain and release said bolt in accordance with the position thereof; a change element, movable to change the combination of said tumblers; an auxiliary lock normally preventing movement of said change element, and having a key way extending parallel with the direction of reciprocation of said bolt; and a key for said



auxiliary lock arranged to release said change element when inserted in said key way, parallel with the direction of movement of said lock bolt.

1,374,311. SOFT-COLLAR HOLDER. ALPHA H. METCALF, Attleboro, Mass., assignor to H. A. Allen & Company, Attleboro, Mass. Filed Dec. 31, 1920. Serial No. 434,273. 4 Claims. (Cl. 24—81.)



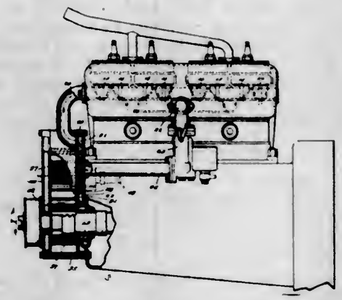
1. In a soft collar holder, a pair of approximately U-shaped members having hinged knuckles formed on their closed ends which knuckles interengage, and a stud for pivotally connecting the members passed through the closed end of each member and having heads on its ends disposed below the top and bottom edges of the members.

1,374,312. SOFT-COLLAR HOLDER. ALPHA H. METCALF, Attleboro, Mass., assignor to H. A. Allen & Company, Attleboro, Mass. Filed Dec. 31, 1920. Serial No. 434,274. 5 Claims. (Cl. 24—81.)



1. In a soft collar holder, a pair of substantially U-shaped members having their closed ends abutted, said members having intermediate collar gripping parts, and a C-shaped clip tightly secured about said abutted portions and engaged at its ends with the inner side faces of each of the two members.

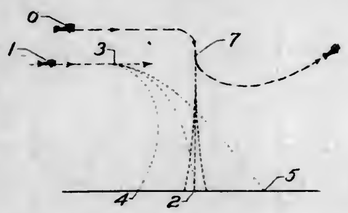
1,374,313. INTERNAL-COMBUSTION ENGINE. VEON I. MONCRIEFF, Indianapolis, Ind. Filed June 7, 1920. Serial No. 386,958. 5 Claims. (Cl. 123—52.)



1. In an internal combustion engine, the combination with a cylinder and piston, wherein the cylinder is pro-

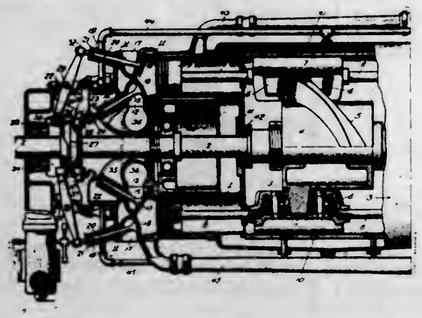
vided with an exhaust port covered and uncovered by the piston, of two inlet valves, means for opening and closing said inlet valves in succession, means for delivering flushing air to one of said valves under pressure, and means for delivering fuel under pressure to the other of said valves.

1,374,314. BOMB-DROPPING SYSTEM. ROBERT V. MORSE, Ithaca, N. Y. Filed Jan. 4, 1918. Serial No. 210,386. 2 Claims. (Cl. 244—1.)



1. The method of dropping bombs from aircraft, which consists in pointing the aircraft downward when substantially over the target and in dropping a bomb while the aircraft is diving rapidly downward, whereby the bomb is dropped with a high initial velocity downward and a comparatively small velocity component in a horizontal direction.

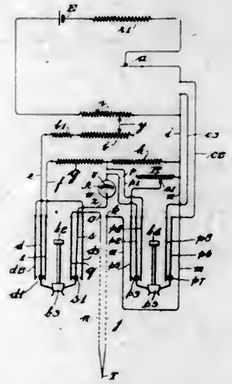
1,374,315. MULTIPLE HEAD AND VALVE-HOUSING. PETER W. MURPHY, Chicago, Ill., assignor to Murphy Engineering Company, Chicago, Ill., a Corporation of Michigan. Filed Mar. 19, 1919. Serial No. 283,481. 12 Claims. (Cl. 123—58.)



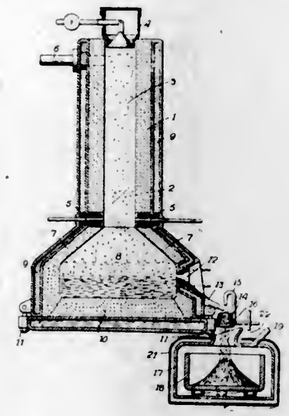
1. In an internal combustion motor, a main shaft, cylinders disposed in a circle around the shaft in parallel relation thereto, pistons for the cylinders operatively connected to the main shaft to cause inter-rotation between the shaft and cylinders, a multiple head closing the cylinders and having intake and exhaust ports for the cylinders, closures controlling the ports, a housing mounted on the head, valve mechanism mounted on the housing and operatively engaging cams on the shaft to operate the closure, and a multiple manifold mounted on the housing and provided with intake ducts extending through the housing to the respective intake ports of the head.

1,374,316. METHOD OF ELECTRICAL MEASUREMENT. EDWIN F. NORTHRUP, Princeton, N. J., assignor to Pyrolectric Instrument Co., Trenton, N. J., a Corporation of New Jersey. Filed Feb. 15, 1919. Serial No. 277,132. 4 Claims. (Cl. 73—32.)

1. The method of determining the value of an unknown electro-motive-force, which consists in passing current through a resistance path, connecting the source of electro-motive-force of unknown value in series with a galvanometer in a shunt on said resistance path to produce a balance between the electro-motive-force of said source and the fall of potential through the part of said resistance path bridged by said shunt, thereafter disconnecting said source of electro-motive-force from said galvanometer, and associating said galvanometer with said resistance path to cause a deflection indicative of the value of the electro-motive-force of said source.



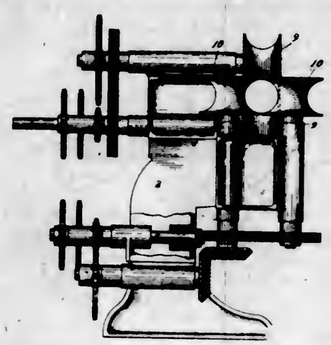
1,374,317. PROCESS AND APPARATUS FOR THE MANUFACTURE OF CARBIDS AND DERIVATIVES THEREOF. FRED E. NORTON, Worcester, Mass. Filed Apr. 1, 1918. Serial No. 226,076. 33 Claims. (Cl. 204—62.)



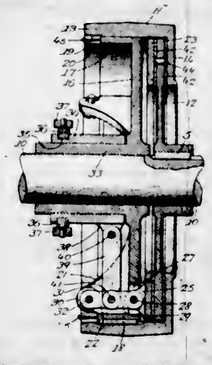
1. The herein described process for the continuous manufacture of carbids, from a mixture of carbon and the desired oxid or hydroxid, by the combustion of a portion of the carbon in said mixture in the presence of oxygen alone.

1,374,318. MACHINE FOR STRAIGHTENING AND SIZING TUBULAR BODIES MADE FROM PULP. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of New Hampshire. Filed Mar. 1, 1920. Serial No. 362,598. 10 Claims. (Cl. 93—83.)

4. In a machine of the character described, a plurality of sets of rolls, the rolls of each set having concave surfaces coöperatively positioned to define a substantially complete circle, said sets of rolls being arranged in sequence with the axes of the circles defined by the coöperating rolls of each set coincident producing in effect a cylindrical passage for tubes of pulp through the machine, said passage being unobstructed and devoid of tube supporting mandrels and the like.

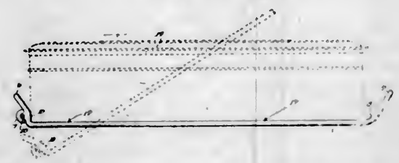


1,374,319. CLUTCH. CARL F. PEARSON, Chicago, Ill., assignor to Chicago Machine & Motor Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 2, 1919. Serial No. 321,006. 2 Claims. (Cl. 192—68.)



2. A clutch having in combination an axially movable clutch member providing a flange in a radial plane and an integral surrounding pulley flange; a disk, axially adjustable with respect to said clutch member and rotatable therewith; another clutch member between the disk and the first mentioned clutch member; an axially movable ring between the disk and the last mentioned clutch member; a toggle having one link connected to the ring and the other link connected to the disk and a three part threaded ring (20) engaging the inner surface of the pulley flange to adjust the position of the disk (16) with respect to the clutch member (14).

1,374,320. CASKET-CARRIER. CLEOPHAS F. PETTKOSKE, Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,506. 1 Claim. (Cl. 280—53.)

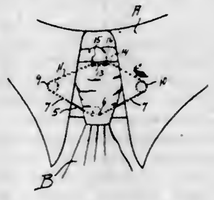


A casket carrier comprising an elongated rectangular frame, having end members and side members, said end members extending upwardly from the side members and serving as end handles for the casket to be carried thereon, a pair of fixed shoulders formed by bending the side members vertically and outwardly at the junction of one end member and each side member and a wheel pivoted near each shoulder.

1,374,321. METHOD OF RENEWING AND REPAIRING WORN METAL SURFACES. JOHN WILLIAM PHILLIPS, Verona, N. J. Filed June 14, 1919. Serial No. 304,257. 6 Claims. (Cl. 22—203.)

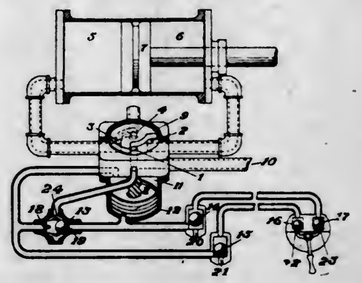
1. The method of filling a cavity in a cylinder or the like which consists in providing the cavity with a metallic lining by electro-deposition, and then filling the cavity by flowing metal into it, substantially as and for the purpose set forth.

1,374,322. NECKTIE-HOLDER. ARTHUR C. POTTER, Mission, Tex. Filed June 10, 1920. Serial No. 388,084. 3 Claims. (Cl. 2—84.)



1. A neck-tie holder comprising a length of material having an eye formed in its intermediate portion adapted to engage a collar button, springs formed in the length between said eye and the end portions of the length, said end portions extending in angular relation to said length to provide penetrating means for insertion in a neck-tie.

1,374,323. FLUID-PRESSURE-CONTROL SYSTEM. EMORY LEE RATHBURN, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 367,010. 6 Claims. (Cl. 121—38.)

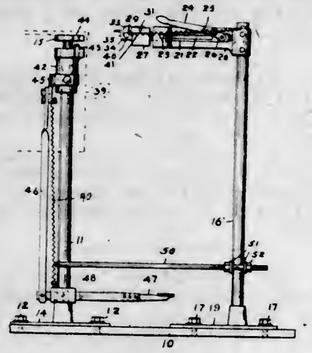


1. In a fluid pressure actuated device; a system of remote control comprising an automatic main valve unit, suitably located controller valves and a line of hollow conductors connecting the automatic main unit to said remote controllers; such connecting conduit being required to transmit less than 10% of the total fluid supplied to the main unit, through which main unit the fractional supply is derived entirely.

1,374,324. METAL PUNCHING AND BENDING MACHINE. GEORGE F. REZNOR, Mercer, Pa. Filed Dec. 3, 1919, Serial No. 342,296. Renewed Mar. 3, 1921. Serial No. 449,504. 3 Claims. (Cl. 153—1.)

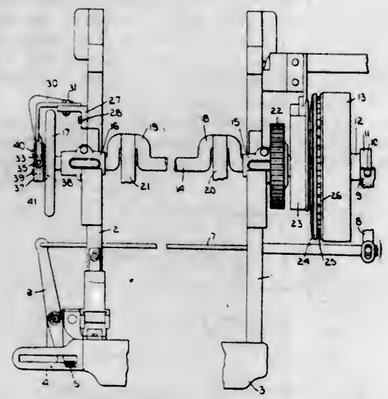
1. A table adapted to contact with the inner walls of a trihedral corner of a hollow body, a clamping-head movable into engagement with a trihedral corner-piece on the said corner, a punch-head insertible between the clamping-

head and the table and carried with the clamping-head, dies carried by the punch-head and arranged to punch holes in two of the sides of said body, and means for



bending up against the inner walls of the said two sides of the body tongues extending from the corner-piece through the said holes while the said clamping-head is in clamping engagement with the corner-piece.

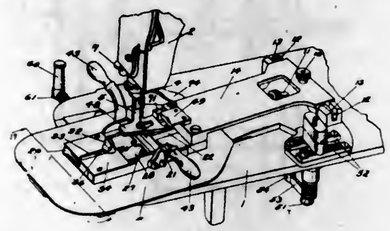
1,374,325. FRICTION-REDUCER FOR LOOM-SHAFTS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 8, 1919. Serial No. 288,458. 8 Claims. (Cl. 64—50.)



8. In a loom comprising a driving shaft having a frictional member thereon, a driving pulley having a complementary frictional member rotatably and slidably mounted upon said shaft, means for shifting said pulley endwise of said shaft to engage and disengage said frictional members; an end thrust bearing for compensating the endwise thrust of said pulley when in driving engagement comprising a hand wheel upon the end of said shaft having a flat race of larger diameter than said shaft, a bracket adjustably secured to the loom side, a thrust block mounted in trunnions in said bracket normal to the axis of said shaft, and antifriction means between said thrust block and said race.

1,374,326. SEWING-MACHINE. ARTHUR ROSENTHAL, Grand Rapids, Mich., and MORRIS G. ROSENTHAL, Cincinnati, Ohio, assignors to The Tag Sewing Machine Company, Grand Rapids, Mich. Filed Apr. 21, 1919. Serial No. 291,444. 21 Claims. (Cl. 112—104.)

8. In a sewing machine, the combination with the bed thereof, of a post on said bed, a supporting slide slotted to engage said post for longitudinal and swinging movement, guide means whereby the said supporting slide may be manually moved in a determined path, a work shoe carried by said slide having a label opening therein, a label holder coacting with said shoe to clamp a label around the edges of the label opening therein, and a feed control means for said supporting slide.



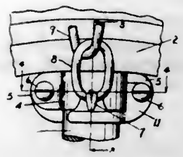
17. In a sewing machine, the combination with a bed, of a work holding means adapted to be manually actuated, and a feed control to secure intermittent movement for said work holding means causing a step by step movement thereof.

1,374,327. CASKET-HANDLE. EDWARD R. SARGENT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Feb. 6, 1919. Serial No. 275,391. 5 Claims. (Cl. 16—103.)



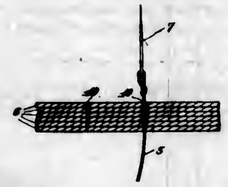
1. A composite arm for casket handles or the like, comprising a main plate, a finishing plate embracing the edge of said main plate to cover the same, and means for securing said finishing plate in place upon said main plate, comprising laterally projecting lugs upon one of said plates, and tongues upon the other plate bent into embracing engagement with said lugs.

1,374,328. ANTISLIP DEVICE FOR VEHICLE-WHEELS. FRANK W. SMITH, Kalamazoo, Mich. Filed June 22, 1920. Serial No. 390,744. 2 Claims. (Cl. 152—14.)



2. In an anti-slipping attachment for vehicle wheels the combination of a pair of spoke clamping members having opposed ears disposed longitudinally of the rim, each member having a central laterally offset hook adapted to receive a link of a tread member, clamping bolts disposed through said clamping member ears, and blade spring guards for said hooks supported by said bolts.

1,374,329. METHOD OF MARKING MATERIALS. NATHAN SMITH, New York, N. Y. Filed Sept. 4, 1919. Serial No. 321,601. 3 Claims. (Cl. 41—26.)



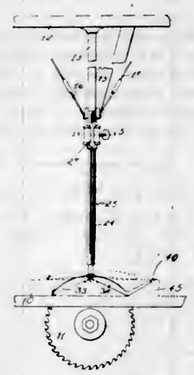
1. A method of marking material for operations to be performed thereon which consists in superimposing a plurality of layers of the material, coating a thread with an adhesive substance substantially unaffected by water, water vapor or heat and contrasting in color with the material, and drawing said thread through the layers of material and thereby leaving a portion of said substance visible on each layer at a point to be marked.

1,374,330. BRUSH. ARTHUR G. STEVENSON, Rochester, N. Y. Filed May 12, 1919. Serial No. 296,386. 10 Claims. (Cl. 132—84.)



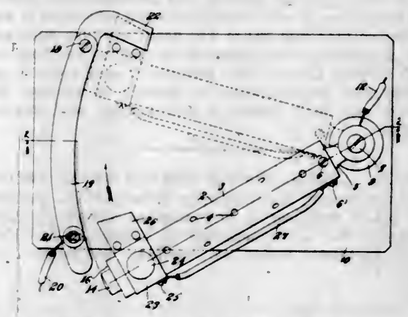
1. The combination with a brush head of a detachable handle formed to provide a reservoir having an opening, a plunger in said reservoir, and operating means for said plunger to dispense the reservoir contents through said opening, said brush head being formed to protect said operating means and close said opening when the head and handle are attached.

1,374,331. SAW-GUARD. FRED STINES, Newton, Iowa. Filed Mar. 18, 1919. Serial No. 283,409. 1 Claim. (Cl. 143—159.)



In a saw guard structure, an upright member having formed at the lower end thereof a downwardly opening U-shaped yoke, the arms of said yoke having at their lower portions inwardly projecting lugs, saw guard members comprising downwardly opening channel-shaped members, each provided at its upper portion with a bearing received between the arms of said yoke and projecting away from the body of the saw guard member, a common bolt extended through said arms, and through said bearings, the walls of said channel-shaped saw guard members, having notches to receive said lugs.

1,374,332. RHEOSTAT. CLARENCE C. STIRLING, Hartford, Conn. Filed Jan. 14, 1920. Serial No. 351,372. 10 Claims. (Cl. 219—51.)



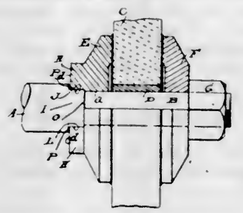
1. A rheostat comprising a movable tubular member, a series of superimposed conducting elements in the tubular member, a plug of conducting material fitted in the tubular member and against which the elements bear, a contact, the tubular element being provided with a movable plug to engage the conducting elements and the contact being formed to cause the movement of the movable plug to effect the compression of the elements on one movement of the movable member and their contraction on another movement of said movable member, a part to arrest the movement of the movable member, and means for by-passing current around the conducting elements when the tubular member is thus arrested.

1,374,333. NURSERY-NEST. FRANK W. STOTLER and RICHARD H. JAMISON, Wilkinsburg, Pa. Filed Apr. 10, 1919. Serial No. 288,900. 7 Claims. (Cl. 5—32.)



2. A portable device of the kind described comprising a collapsible frame consisting of a central base member, radial members detachably secured thereto, uprights collapsibly connected to the radial members, and a fabric body having a bottom and sides suspended between and held taut by the said uprights.

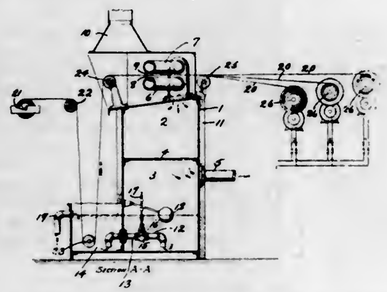
1,374,334. MOUNTING MEANS FOR GRINDING-WHEELS. WILLIAM HENRY SUMBLING, Toronto, Ontario, Canada. Filed Mar. 9, 1920. Serial No. 364,575. 3 Claims. (Cl. 51—168.)



1. In combination, an arbor provided with a reduced bearing end which terminates at its inner end circular in cross-section at an annular shoulder formed in said arbor with its face at right angles to the longitudinal axis thereof, opposite sides of said annular shoulder being cut away longitudinally of the arbor to form two parallel flat

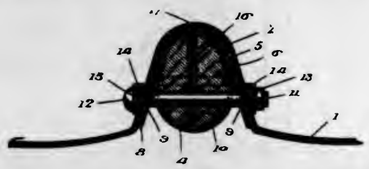
faces which are located outside of said shoulder; an inner circular bored flange mounted on said reduced end and having its inner end cut transversely through at one end of said bore to provide two substantially parallel faces spaced apart which coact with the said faces of said shoulder so that said flange will positively turn with said arbor; a grinding-wheel mounted on said reduced end, and means carried by the outer portion of said reduced end whereby said grinding-wheel is clamped in position, and whereby said inner flange is held against said annular shoulder.

1,374,335. APPARATUS FOR DRYING METAL STRIPS. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 6, 1920. Serial No. 349,787. 5 Claims. (Cl. 141—1.)



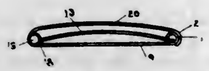
2. In a machine for drying metal strips, the combination of a tank, means for supplying steam under pressure to said tank, means for discharging the steam from said tank, a tank for receiving condensed steam from the first tank, and means for conveying a strip of metal through the condensed steam in the second-named tank and through a blast of steam from the first-named tank.

1,374,336. HANDLE AND BLADE CONNECTION. JOHN S. SURBAUGH, Vincennes, Ind. Filed Dec. 13, 1919. Serial No. 344,684. 13 Claims. (Cl. 306—31.)



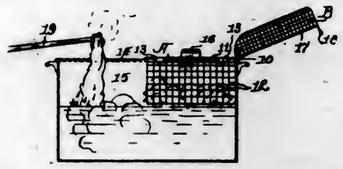
6. A tool including a blade having a roll, a handle member fitted within the roll, and means extending through the sides of the roll and arranged to hold the handle member against the crown of the roll, said means and sides of the roll having coöperating portions operable for shifting said means toward the crown of the roll to clamp the handle member against said crown.

1,374,337. CLASP. FRED M. SWARTZ, Providence, R. I. Filed July 31, 1920. Serial No. 400,426. 1 Claim. (Cl. 24—259.)



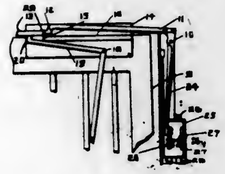
In a clasp, a stationary jaw comprising a base, an arched resilient bearing arm, and a circular loop uniting one end of the base with the bearing arm, a loop integral with the other end of the base provided with a slot adapted to loosely receive the free end of the arm, a pivot member embraced by the first loop, a movable jaw, sleeves on the movable jaw embracing the pivot member, and a hook on the movable jaw engaging the second loop.

1,374,338. LAUNDRY-STRAINER. LENA J. SYVERSON, Ironton, Minn. Filed June 19, 1919. Serial No. 305,303. 2 Claims. (Cl. 68—30.)



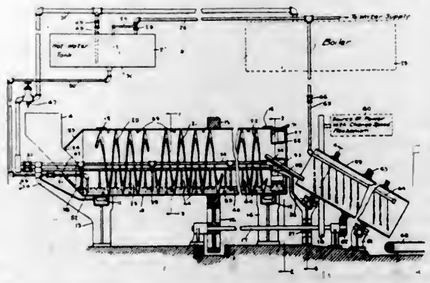
2. A foraminous receptacle formed and arranged to fit into and partially occupy the opening in the top of a boiler and provided with hangers for engagement with the upper edges of a boiler, a foraminous basket-shaped squeezer adapted to fit snugly into the upper portion thereof and a handle upon the upper side of the squeezer for pressing the same upon the contents of said receptacle.

1,374,339. DOOR-INTERLOCK. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator & Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed July 19, 1920. Serial No. 397,383. 6 Claims. (Cl. 187—31.)



1. An actuator, means driven by the actuator, a cut-out for the actuator as to the means, and a shiftable member provided with an arm movable to release the member for shifting and simultaneously operating the cut-out, said member carrying means holding the arm in moved position as long as the member is shifted.

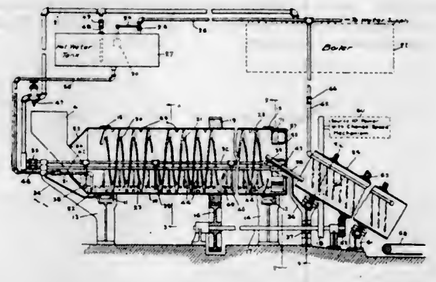
1,374,340. APPARATUS FOR BLANCHING OR COOKING VEGETABLES. EDWARD J. VAUDREUIL, Eau Claire, Wis. Filed Feb. 23, 1921. Serial No. 446,991. 20 Claims. (Cl. 99—2.)



2. An apparatus for cooking vegetables comprising a drum, means for rotating said drum, means for feeding vegetables into and through and from the drum as the drum is rotated, means for introducing hot water at one end and discharging water from the other end of said drum to maintain a moving shallow body of water within the drum, and means for maintaining the temperature of said water at or near the boiling point.

20. An apparatus for cooking vegetables comprising a rotating drum, means for introducing vegetables into the drum, means for causing the vegetables to move along the drum in an extended body or sheet to the discharge end thereof, a steam pipe fixedly supported within the drum having connection with a source of steam supply under pressure, and nozzles extending from said steam pipe for directing blasts of steam under pressure to impact upon said sheet of vegetables, said nozzles being angularly disposed from the vertical in the direction of movement upwardly of said body of vegetables as the drum is rotated.

1,374,341. PROCESS OF BLANCHING OR COOKING VEGETABLES. EDWARD J. VAUDREUIL, Eau Claire, Wis. Filed Feb. 23, 1921. Serial No. 446,992. 9 Claims. (Cl. 99—11.)

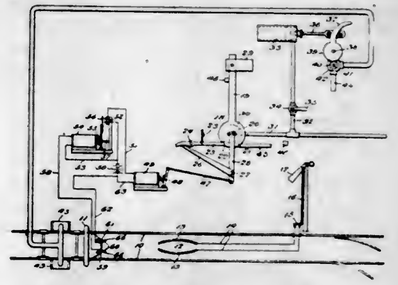


2. The process of cooking vegetables, or the like, for canning, which consists in providing a relatively extended and shallow body of hot water, introducing said vegetables at one end of said body, causing said vegetables to move in and along said body of hot water to the other end thereof in a predetermined period of time sufficient to cook said vegetables, maintaining the temperature of all the water in said body at or near the boiling point throughout said period, discharging the vegetables from the body of water at the end of said period, and introducing hot water at one end and discharging it from the other end of said body at a rate proportional to the quantity of said vegetables in and subject to the cooking action of said body of water.

8. The process of cooking vegetables or the like for canning, which consists in delivering hot water at one point and discharging water at a point removed therefrom so as to produce a slow moving stream of water of a depth and bulk and subject to change at a rate proportional to the amount of vegetables in said stream, maintaining the temperature of said water throughout the extent of the stream at or near the boiling point, introducing said vegetables at one end of said stream, causing said vegetables to move along said stream to the other end thereof in a predetermined period of time sufficient to cook said vegetables, and separating said vegetables from said other end of the stream.

1,374,342. AUTOMATIC TRAIN-STOP. FRANK A. WALTON, Portland, Oreg., assignor of one-half to Fred W. Steiner, Sparks, Nev. Filed Sept. 20, 1920. Serial No. 411,399. 3 Claims. (Cl. 246—187.)

1. The combination with a train control apparatus comprising spaced pivotally mounted contact arms, a bar normally connecting said arms and stationary means located in the path of the switch for engagement with the



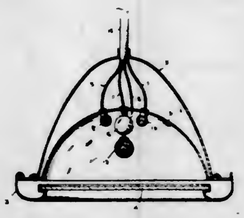
contact arms to operate the latter and disengage the connecting rod to open the switch.

1,374,343. DOLL. DAVID WIENER, New York, N. Y. Filed Dec. 28, 1918. Serial No. 268,590. 1 Claim. (Cl. 46—40.)



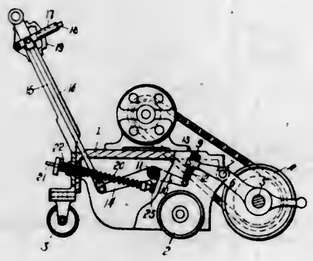
In a stuffed doll, the combination of a stuffed body, a shoulder piece secured thereto, and a head formed separately from the shoulder piece, said shoulder piece being provided with one element of a detachable connection and said head being provided with another element of said connection, said elements coöperating to hold the head rigidly on the shoulder piece so that the head and shoulder piece constitute in effect a single rigid structure, and said elements being readily connectible to permit ready application of the head to the shoulder piece and being readily separable to permit ready detachment of the head from the shoulder piece.

1,374,344. HEADLIGHT FOR VEHICLES. CLARENCE D. WILLIAMS, Mountain Park, Okla. Filed June 30, 1917. Serial No. 177,946. 2 Claims. (Cl. 177—327.)



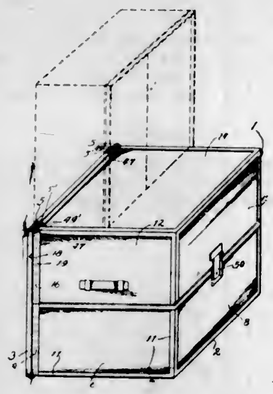
1. A signal headlight including a concaved reflector, a clear electric light bulb within the reflector at the center thereof, electric light bulbs of different colors at the right and left hand sides of the first named bulb for signaling the intentions to turn toward the right or the left and directing the light rays of different colors accordingly, and an electric light bulb of still another color within the reflector below the first named bulb for indicating the intentions to stop the vehicle.

1,374,345. TENSION MEANS FOR FLOOR-SURFACING MACHINES. HARRY H. WOLFE, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed July 3, 1920. Serial No. 393,875. 4 Claims. (Cl. 51—176.)



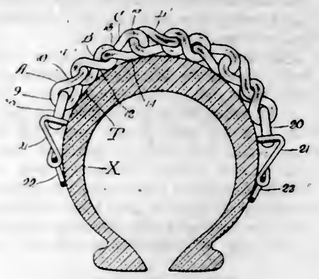
1. In a machine of the class described, a portable frame, a surfacing drum, means carried by the frame and in turn carrying the drum for different movement relative to the frame, a manual control means for the drum carrying means having a lever fulcrumed to the frame, yielding connection between the control means lever and the drum carrying means, and spring pressure means manually adjustable as to its tension and coacting with the control means to communicate a uniform surfacing pressure on the drum in any position of its movement.

1,374,346. CONVERTIBLE TRUNK. WILHELMINE ANDERSON, West New York, N. J. Filed Sept. 2, 1919. Serial No. 321,132. 7 Claims. (Cl. 190—3.)



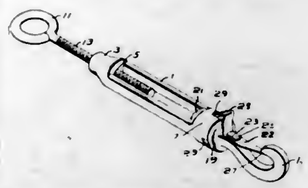
2. A trunk comprising in its construction a pair of opposite main trunk sections each having a front wall, end walls, and a hinged inner back wall adapted to form a section cover, and a hinged outer connecting back member connected at its opposite edges with the hinged margins of said hinged inner back wall members and the corresponding adjacent hinged margins of said main trunk sections, and acting to overlap, engage and inclose and hold the opposite margins of the main trunk sections and hinged inner back wall members in engagement with each other in trunk-closing position.

1,374,347. TIRE-CHAIN. CHARLES S. BARRELL, Boston, Mass. Filed Sept. 12, 1916. Serial No. 119,692. 6 Claims. (Cl. 152—14.)



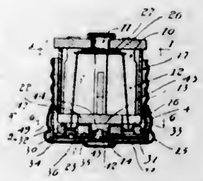
1. A traction device for tires, comprising a cross chain having links so twisted that corresponding portions of successive links occupy progressive angular positions giving the chain an outer contour for rolling contact with the tire.

1,374,348. SWIVEL-TURNBUCKLE DEVICE. CHARLES S. BARRELL, Boston, Mass. Filed May 11, 1920. Serial No. 380,693. 6 Claims. (Cl. 85—36.5.)



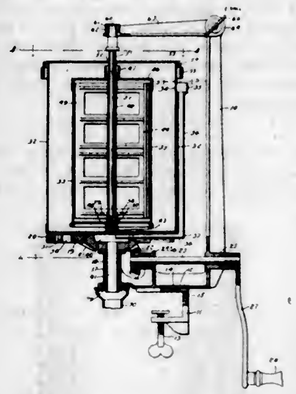
1. A swivel-turn-buckle device for tire chains and other purposes, comprising a nut member having a swivel eye and a threaded eye, an eye member having a shank threaded in the threaded eye of said nut member, and a snap hook having a shank swiveled in the swivel eye of said nut member, said snap hook and nut member having interengaging locking elements automatically to lock said nut member in different positions of rotative adjustment in respect to said hook member.

1,374,349. FUSE-PLUG. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1918. Serial No. 232,437. 21 Claims. (Cl. 200—125.)



1. A fuse plug comprising a threaded shell contact, a combined fuse and center contact support comprising a cylindrical shell of insulating sheet material telescoping inside said threaded shell contact, and a disk of insulating sheet material extending across the inner end of said insulating shell, a center contact secured to said disk, and a fuse located in said insulating shell and carried by said fuse support and electrically connected with said center contact, said disk being secured to and carried by said insulating shell, and removable therewith as a unit from said threaded shell.

1,374,350. ICE-CREAM FREEZER. ERNEST BLASSER, Allston, Mass., assignor of one-half to George I. Clayton, Boston, Mass. Filed Jan. 10, 1918. Serial No. 211,281. 10 Claims. (Cl. 259—46.)



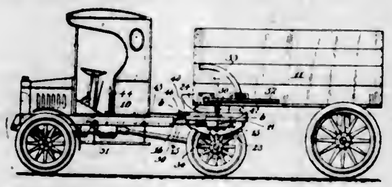
1. In a device of the character described a rotatable outer receptacle, a stationary inner container housed in said outer receptacle and spaced therefrom, a beater rotatably mounted in said inner container, means for engaging said beater with said outer receptacle to rotate therewith, means for rotatably supporting said outer receptacle and said beater and for holding said inner container against rotation, and means for rotating said outer receptacle with said beater.

1,374,351. COMBINED COLLAR-BUTTON AND TIE-SLIP. ORVILLE M. BLOOD, Chicago, Ill. Filed Sept. 23, 1918. Serial No. 255,290. 1 Claim. (Cl. 24—61.)



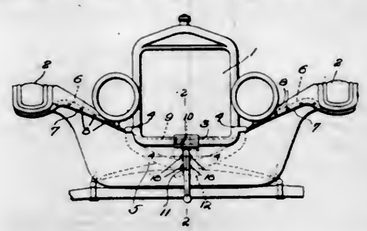
A collar button made from a single strip of sheet metal, said strip being provided at one end with an enlarged depending button head of greater width than the width of the body of said strip and said strip being bent from the upper edge of said head, outwardly, then downwardly, then outwardly, then upwardly the end of said last mentioned upwardly extending portion terminating opposite said button head and being extended outwardly to rest against the outer fold of a turnover collar, substantially as described.

1,374,352. VEHICLE. ANDREW J. BORST, Jr., Buffalo, N. Y. Filed May 28, 1918. Serial No. 236,986. 16 Claims. (Cl. 280—33.1.)



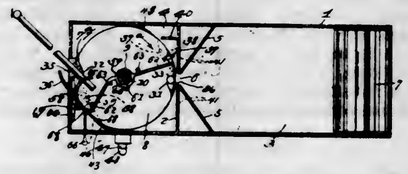
2. The combination of a tractor having a platform normally inclined rearwardly, a coupling member on said platform, a trailer having a skid-like member adapted to be engaged by the upper face of said platform when said platform is moved backwardly underneath the front end of said trailer, said skid-like coupling member being adapted to swing said platform into horizontal position when said platform is moved underneath said trailer, and means for connecting said coupling member.

1,374,353. APRON FOR AUTOMOBILES. GEORGE W. BOYNTON, Watertown, Mass. Filed Mar. 24, 1920. Serial No. 368,370. 3 Claims. (Cl. 180—1.)



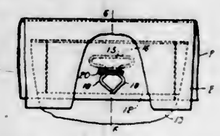
1. In an automobile, the combination with a radiator having a finish strip at its lower edge disconnected therefrom, of an apron having its upper edge loosely retained between the finish strip and radiator, and a retaining member adapted to be inserted between the radiator and apron and having a U-shaped resilient portion to embrace the upper edge of said apron and said finish strip and hold them in firm contact.

1,374,354. MATCH-SAFE AND COMBINED DISPENSING AND STRIKING MECHANISM THEREFOR. GEORGE H. BRUINGTON, Albuquerque, N. Mex. Filed Aug. 11, 1920. Serial No. 402,883. 14 Claims. (Cl. 206—22.)



1. In a match safe and combined dispensing and striking mechanism therefor, a casing having a match receiving compartment, feeding means for the matches, an intermittent rotating cylinder having crevices for receiving and dispensing matches from the match compartment, means for moving the match into the crevices, means for tilting the match out of the crevice and holding it at one end of the cylinder at a point diametrically opposite where the match first enters the crevice, and means under torsional strain for actuating the cylinder.

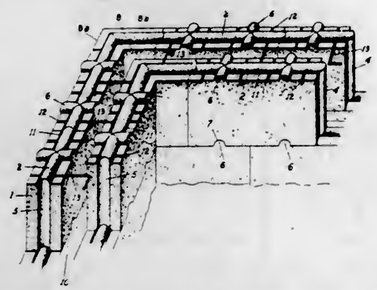
1,374,355. COLLAR-BUTTON. SAMUEL BUTTERWORTH, Newton, Mass. Filed Aug. 30, 1920. Serial No. 406,975. 1 Claim. (Cl. 24—101.)



A back collar-button composed of a length of resilient wire having free ends, and bent to form an elongated loop-shaped foot formed to stand between the plies of the button foot-receiving pocket of a shirt neck-band, above a button-hole in one of said plies, a two-part neck, nar-

rower than the length of the foot and in the same plane therewith, the neck being formed to enter said button-hole, and a two-part compressible head formed from the free ends of the wire and formed to project downwardly from the neck when the foot and neck are in their operative positions, said ends diverging from the neck to the central portion of the head, and converging from said central portion to the outer extremity of the head, so that the outer portion of the head is wedge-shaped, and adapted to be compressed by contact with the ends of a button-hole, the neck being narrower than the central portion of the head.

1,374,356. REINFORCED CONCRETE CONSTRUCTION. HARRY E. CLOUSER and EDGAR R. THORNTON, Stockton, Calif., assignors of one-fifth to Nettie Harrison, Stockton, Calif. Filed Feb. 9, 1920. Serial No. 357,458. 1 Claim. (Cl. 72—43.)



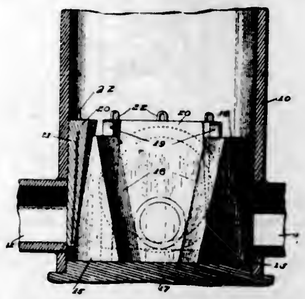
In building blocks having each a longitudinally and centrally positioned ridge along one horizontal edge and a corresponding groove along the opposite edge, longitudinal channels on each side of the ridges and grooves, transverse connecting channels between the longitudinal channels and the faces of the blocks, the latter being adapted to be laid in horizontally spaced rows to form the building, and Z-shaped metal binders arranged to seat in the adjacent transverse channels of spaced blocks and in the corresponding longitudinal channels thereof.

1,374,357. APPARATUS FOR TREATING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed May 31, 1917. Serial No. 172,037. 2 Claims. (Cl. 196—5.)



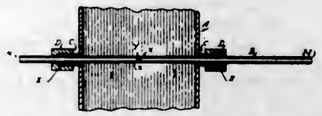
1. An air cooled fractional condenser comprising a drum provided with baffles extending from the top to points near the bottom of the drum, baffles extending from the bottom to points near the top of the drum so as to divide the drum into a series of successive fractional condensing chambers, individual condensate conductors leading from the respective condensing chambers, a collection of approximately horizontal air conducting tubes passing through said baffles and extending from one end of the drum to the other to serve as baffles for the vapor in all of said condensing chambers, the condensing chambers near the discharge ends of said air conducting tubes having a vapor inlet for the admission of vapor to the drum, the condensing chamber near the inlet ends of said air conducting tubes having a vapor outlet for the discharge of vapor from the drum, said parts being so arranged that vapor passing through said vapor inlet will flow back and forth across the outer faces of the air conducting tubes and at the same time flow from one end of the drum to the other in a general direction opposite to the direction of the air currents in said tubes, and a hot air flue arranged to receive the heated air passing from said tubes, said hot air flue being extended upwardly so that the hot air rising therein will create an induced draft in said air conducting tubes.

1,374,358. VALVE FOR IRRIGATION PROJECTS. WILLIAM JOHN COLEBURN, Beaufort, N. C. Filed Mar. 31, 1919. Serial No. 286,614. 6 Claims. (Cl. 137—13.)



1. In an arrangement of the character described, a valve box having openings in its walls, for the connection of irrigation tiles, and having internal seat blocks provided with valve seats inclined downwardly and toward the inner surface of the valve box, said seats being arranged at opposite sides of the valve box openings and out of a line connecting the said openings, and valve gates having flat outer faces for movement against the inner surfaces of the valve box around its opening and provided with inclined rear faces for coöperation with the inclined valve seats, for the purpose described.

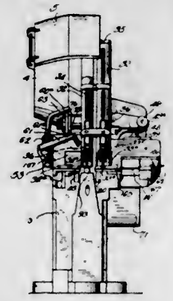
1,374,359. FLOW-INDICATING DEVICE. ARTHUR L. COLLINS, Santa Cruz, Calif. Filed Aug. 22, 1919. Serial No. 319,081. 3 Claims. (Cl. 73—167.)



1. A tube of uniform diameter and having intermediate its ends a closure plug, there being two openings in the walls of the tube adjacent to and separated by the plug, the two openings being diametrically placed in the walls of said tube, a pipe having diametrically placed perforations provided with stuffing boxes, the tube being inserted through said stuffing boxes.

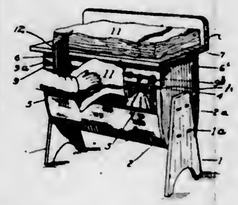
1,374,360. BUTTON-SETTING MACHINE. ADELBERT F. COOK and LLOYD R. REED, Urbana, Ohio, assignors to The W. B. Marvin Manufacturing Company, Urbana, Ohio, a Corporation of Ohio. Filed Aug. 20, 1917. Serial No. 187,170. 12 Claims. (Cl. 218—8.)

2. In a machine of the character described, a movable hopper, a plurality of raceways movable with said hopper, one of said raceways being in communication with the interior of said hopper, stapling mechanism to which said raceways extend, and means for moving said hopper and raceways laterally and also for raising said raceways above said stapling mechanism during such movement to bring one or the other of said raceways in proper feeding relation to said mechanism.



9. In a machine of the character described, a main operating device, wire feeding devices, and button feeding devices, said button feeding devices comprising a rotatable spring-pressed shaft, a button engaging member arranged to engage the top of a button, a detent for said shaft, and connections operated by said shaft whereby an abnormal movement of said shaft to button engaging position throws said wire feeding devices out of operation.

1,374,361. TOWEL-TABLE. JOHN L. COX, San Diego, Calif. Filed Oct. 6, 1919. Serial No. 328,844. 1 Claim. (Cl. 45—32.)



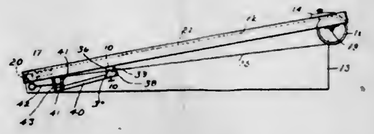
A towel table, including a top member adapted to receive the towels, leg members supporting the same at opposite ends provided with curved portions, a screen secured to said curved portions at opposite ends forming a basket for receiving the soiled towels and a rod pivotally mounted at one end of said table and extending across said table between the top and basket and a lock means for securing the free end of said rod whereby towels may be strung on said rod and taken from said table, used and the end thrown into said basket and their unauthorized removal from said rod prevented.

1,374,362. METHOD OF FILLING POROUS MATERIAL WITH LIQUID. CHARLES W. DAVIS, Edgeworth, and WILLIAM S. BROWN, Pittsburgh, Pa., assignors to Standard Underground Cable Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 2, 1919. Serial No. 308,307. 3 Claims. (Cl. 91—68.)

1. The method herein described of filling fibrous material with fluid, which consists in immersing the one in the other, and, as absorption progresses, subjecting the bath to repeated sudden drops in pressure, whereby entangled gaseous bubbles are released and escape from the fibrous material.

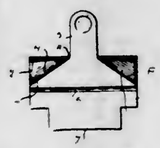
1,374,363. DRAWING APPARATUS. GEORGE H. E. DAVIS, Lynn, Mass. Filed Jan. 19, 1920. Serial No. 352,458. 6 Claims. (Cl. 33—80.)

1. In a drawing apparatus, in combination, a drawing-board, a ruler movable on the top surface of the board, a pair of main pulleys, a shaft to which said pulleys are fixed, said shaft being supported by fixed bearings at one end portion of the board, a pair of tension pulleys supported by movable bearings at the opposite end portion of the board, elongated inextensible flexible strips, having end portions coiled on, and positively secured to said main pulleys, and intermediate portions maintained by the tension pulleys in the form of loops or bights, having



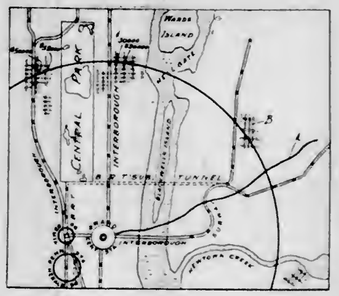
upper and lower stretches, the upper stretches extending along the upper side of the board, and clamps carried by the end portions of the ruler and engaging the said upper stretches, said strips, main pulleys, shaft, tension pulleys and clamps constituting a controlling mechanism, adapted to positively maintain a predetermined angularity of the ruler relatively to the board, and to permit movement of the ruler on the board without variation of its angularity.

1,374,364. TAIL-HOLDER. THOMAS A. DAVIS, Grandview, Wash. Filed Jan. 11, 1919. Serial No. 270,678. 1 Claim. (Cl. 24—259.)



A tail holder comprising a pair of jaw members, a supplemental jaw projecting from the front portion of each of said jaws in the plane of said jaw, the corner portions at the rear of each of the first mentioned jaw members being extended in angular relation to the jaw and toward the opposite jaw member, and resilient means for connecting said jaw members.

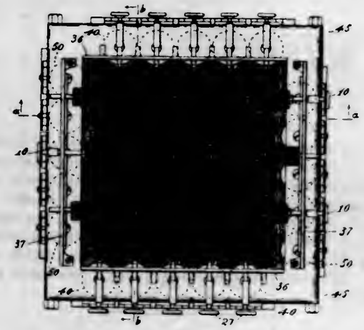
1,374,365. ADVERTISING-CHART. JOSEPH P. DAY, Millburn, N. J. Filed Nov. 24, 1920. Serial No. 426,164. 1 Claim. (Cl. 35—6.)



An advertising chart illustrating such localities as the plan of streets of a city with property values at different points indicated thereon having a string attached to a

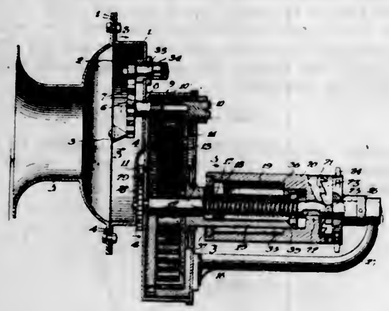
recognized central point on said chart for showing radial distances of points on the chart from said center and comparing values.

1,374,366. TELEPHONE-SWITCH. GEORGE W. DICKERSON, Galion, Ohio, assignor to The North Electric Manufacturing Company, Galion, Ohio, a Corporation of Ohio. Filed June 26, 1916. Serial No. 105,781. 30 Claims. (Cl. 179—27.5.)



1. In a telephone switch, a plurality of sets of contacts arranged in a row independent of one another, each set of contacts comprising a plurality of flexible springs, a plurality of other contacts arranged in rows, means for operating a row of individual flexible contacts, and means for operating the second mentioned contacts for coöperating with an individual set of flexible contacts independent of the other contacts in the row.

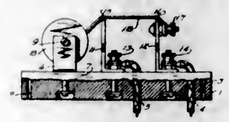
1,374,367. AUDIBLE SIGNAL. ALVIN H. DODD, Chicago, Ill. Filed Dec. 22, 1915. Serial No. 68,206. 6 Claims. (Cl. 116—145.)



1. An audible signal, comprising a vibratable diaphragm, a rotatable member positioned in parallelism with the flat plane of the diaphragm for vibrating the diaphragm, a spring motor from which the rotatable member derives momentum, and a device acting in opposition to the motor to hold the same under restraint.

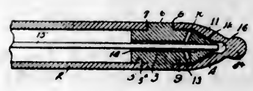
1,374,368. FUSE-WIRE REEL. LE ROY DRAKE, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,695. 2 Claims. (Cl. 200—125.)

1. In a device of the type described, the combination with an insulating base, two L shaped members mounted thereon, each having fuse receiving means in its free end, one of said members having a binding post mounted thereon adjacent to its fuse receiving means, of a fuse holding reel on which a fuse wire may be wound, a section of said



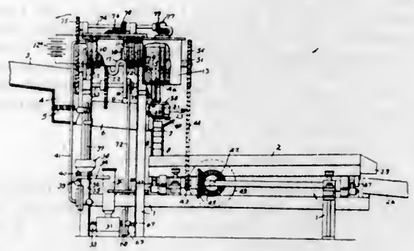
fuse wire being adapted to be held by said means, with its free end secured by said binding post, and means, frictionally to hold said fuse wire in said receiving means, all substantially as described.

1,374,369. TOOL FOR PIERCING BILLETS. LUTHER D. EARL, Shelby, Ohio. Filed Mar. 29, 1919. Serial No. 286,202. 9 Claims. (Cl. 78—9.)



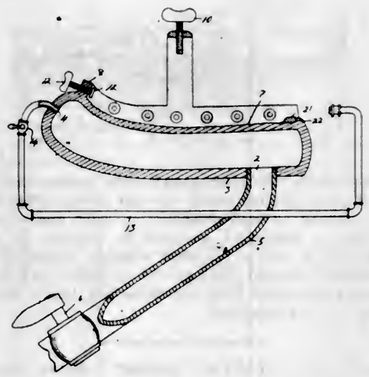
1. In a tool of the character described, the combination of a hollow bar or shank, a chambered point at the forward end of said bar or shank, a fluid supply extending to the chamber of said point, and a plurality of passageways in said point communicating with the chamber and conducting fluid therefrom in cooling relation to said point.

1,374,370. ELECTROCHEMICAL GOLD-SEPARATOR. HERBERT P. EWELL, Los Angeles, Calif. Filed Nov. 7, 1918. Serial No. 261,443. 5 Claims. (Cl. 83—67.)



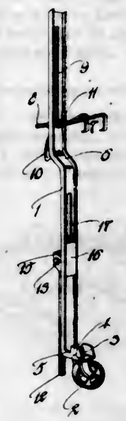
1. In a gold separator, the combination with a gold amalgamating chamber and means for continuously feeding ore pulp into said chamber, of a chamber for forming liquid sodium amalgam, means for continuously supplying the liquid amalgam from the last named to the first named chamber, a shaking pan receiving the gold amalgam, surplus mercury and tailings from the gold amalgamating chamber, a well draining the gold amalgam and mercury from said pan, means for separating the gold amalgam from the mercury, and means for returning the mercury to the chamber in which sodium amalgam is formed.

1,374,371. FOOTWEAR-VULCANIZER. WADE H. FOSTER, Bad Axe, Mich. Filed May 5, 1919. Serial No. 294,755. 14 Claims. (Cl. 18—17.)



1. In a vulcanizer, the combination with a hollow work support, adapted for the passage of a hot fluid, of a pliable hollow member engaging the work and also adapted for the passage of a hot fluid.

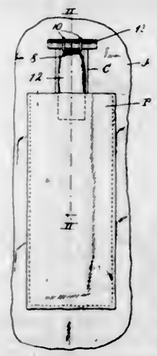
1,374,372. CARRIER. LOUIS L. FREUND, Spokane, Wash. Filed Apr. 19, 1920. Serial No. 375,026. 4 Claims. (Cl. 294—15.)



1. The combination in a carirer as described comprising a plurality of units, each unit including an upright, slotted post having a foot and a caster journaled therein, a hook fashioned at the top of the foot, a screw shank in the slotted post and an integral hook therefor, and meaus for clamping the shank to the post for the purpose described.

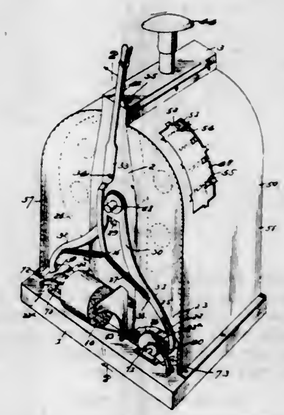
1,374,373. RULE-HOLDER. JOHN HERICK, Kansas City, Mo. Filed June 1, 1920. Serial No. 385,411. 4 Claims. (Cl. 2—151.)

1. A safety device for holding a rule in the pocket of a garment consisting of a suitable length of elastic adapted to be secured to the garment, and a clamp swingably con-



nected to said elastic and adapted to engage over the upper end of a rule to hold the same in the pocket.

1,374,374. LABEL PRINTING OR STAMPING MACHINE. HUGH F. HURST, Richmond, Va. Filed June 3, 1920. Serial No. 386,341. 21 Claims. (Cl. 101—102.)

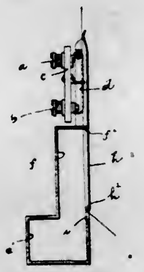


1. In a label printing machine, a frame having a base, a platen roller journaled in bearings of the base, a label guide positioned over the platen roller and provided with upper and lower openings and through which the label passes, said guide being constructed of a single piece of sheet metal bent upon itself causing to be formed the upper and lower parts which have said openings, a printing ribbon extending across the guide over the face of the label, and a printing member movable in guides of the frame and adapted when depressed to cause an impression of a type bar on the label.

1,374,375. SINGEING APPARATUS. THEODORE F. HUSSA, Montclair, N. J. Filed Jan. 15, 1918. Serial No. 211,917. 8 Claims. (Cl. 28—7.)

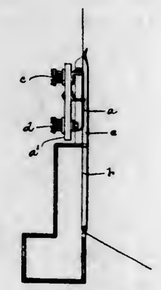
1. A singeing apparatus embodying therein an extended base, a troughed resistance member mounted thereon, and having its axis extending substantially vertically, a casing inclosing said resistance member having air inlet passages adjacent one end, and extending substantially

the full length, of said troughed member, and an air outlet passage adjacent the other end of said member, said casing being so formed as to direct air across the top edges of said troughed member, a conduit com-



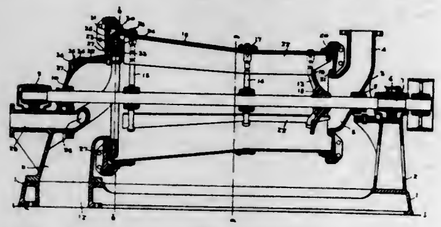
municating with the air outlet passage of said casing, and means creating sub-atmospheric pressure in said conduit whereby an induced current of air at a low rate of flow, is created about said resistance member.

1,374,376. METHOD OR ART OF SINGEING THREADS. THEODORE F. HUSSA, Montclair, N. J. Filed Jan. 15, 1918. Serial No. 211,918. 4 Claims. (Cl. 28—7.)



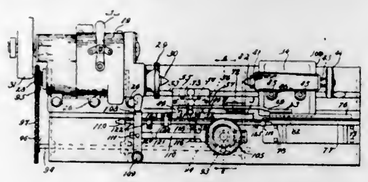
1. The herein described method or art of singeing threads consisting in passing a thread in close juxtaposition to a vertically extending incandescent, electrical resistance member while causing an induced current of air having a low rate of flow to pass axially of, and transversely about, said resistance member.

1,374,377. CENTRIFUGAL PULP-THICKENER. JULIUS T. JAEGER, Iroquois Falls, Ontario, Canada. Filed July 14, 1919. Serial No. 310,645. 8 Claims. (Cl. 233—21.)



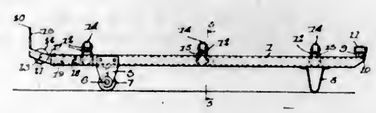
2. A centrifugal pulp thickener, comprising, a rotatable tubular member flaring outwardly toward the discharge end, a centrally located stationary conduit adapted to conduct the waste water from the center of said tubular member, and means rigid with said stationary conduit for conducting the pulp from the inner perimeter of the inner rotatable member at its outwardly flaring end.

1,374,378. LATHE. JOHN E. JOHNSON, Elgin, Ill. Filed May 24, 1919. Serial No. 299,660. 14 Claims. (Cl. 82—32.)



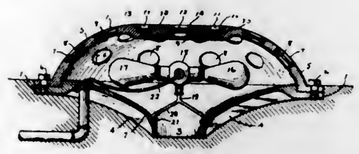
1. In a lathe, the combination with a lathe bed, of a back frame projecting above the bed at one side, and a track arranged on said extension at right angles to the lathe bed, a head-stock mounted in position to travel over the lathe bed, a tail-stock slidably connected with the vertically exposed track on the extension, and projecting over and spaced from the lathe bed, and a carriage movable on said lathe bed.

1,374,379. HAND-TRUCK. HERBERT F. KLEIN, Deerfield, Wis. Filed May 15, 1920. Serial No. 381,603. 6 Claims. (Cl. 280—56.)



4. A hand truck comprising side frame members, cross members joining said side frame members, a plurality of members pivotally joined to said cross frame members and each arranged to move about an axis substantially parallel to the longitudinal axis of said truck, and pairs of rollers carried by each of said pivotally mounted members, said rollers having their axes parallel to the pivotal axes of said members.

1,374,380. TRAFFIC-INDICATOR. JOHN H. LEHMAN, Elkhart, Ind.; Bessie A. Lehman administratrix of said John H. Lehman, deceased. Filed Dec. 22, 1919. Serial No. 346,511. 2 Claims. (Cl. 240—1.)



1. In a traffic indicator, a hollow body member provided with a domed top portion, said domed top being provided with a plurality of windows and an opening adapted to serve as a hand-hole, said opening being relatively smaller than said domed top, said body being provided also with an opening in its bottom wall adapted for draining moisture from the interior of said body member; a hand-hole cover plate; means connecting the cover plate with the domed top for detachably securing the former to the latter; and a light mounted within said body member.

1,374,381. CONNECTING RAILS. JOHN C. H. LUBKEN, Westmont borough, Pa. Filed Dec. 12, 1919. Serial No. 344,423. 17 Claims. (Cl. 173—262.)

7. A rail joint comprising a pair of angle bars secured thereto, portions of the lower flange of one of said bars

being bent upwardly away from the rail flanges while integral with the other portions of said splice bar flange, an electrical bond secured within holes provided in the



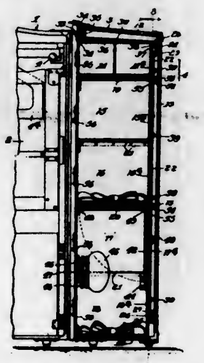
rail flanges adjacent to the bent-up portions of said splice bar flange and fused or welded therein by means operating within the spaces between the splice bar flange and the rail flanges.

1,374,382. AIR-CHILL FOR VEHICLE-TIRES. ROBERT W. MELLOR, Girard, Ohio. Filed Nov. 3, 1919. Serial No. 335,383. 2 Claims. (Cl. 152—13.)



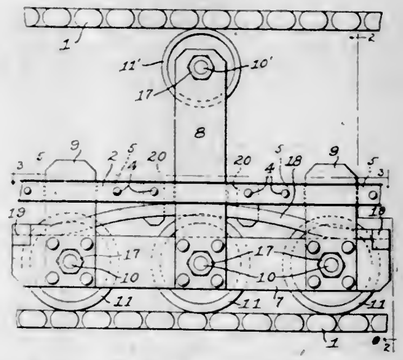
1. In a device of the class described an outer casing, a corded casing within the outer casing the corded casing constructed of large and small cords, the large cords running transversely of the inner portion of the casing, while the small cords extend lengthwise with the circumference of the casing, a perforated partition located between the inner tube and the corded casing substantially as described for the purpose set forth.

1,374,383. DRAWER-LOCKING MECHANISM FOR TRUNKS. FRANK W. MEYER, Oshkosh, Wis., assignor to The Oshkosh Trunk Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Sept. 14, 1918. Serial No. 254,027. 5 Claims. (Cl. 45—94.)



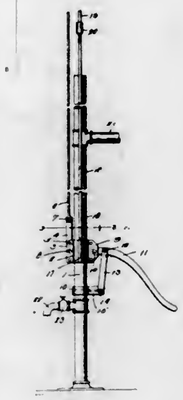
1. In a trunk having a section containing drawers, a locking bar located to the rear of said drawers and adapted to be moved into and out of locking engagement with locking members on said drawers, a rotatable rod for moving said bar, and means including a lost motion construction connecting said rod with said bar.

1,374,384. TRACTOR-CARRIAGE. FRANK MOON, Oakland, Calif., assignor to Moon Tractor Co., San Francisco, Calif., a Corporation of California. Filed Oct. 29, 1919. Serial No. 334,303. 3 Claims. (Cl. 305—9.)



1. In a tractor having an endless track-chain and a horizontal frame member provided with a vertically disposed guide-way; a carriage comprising a horizontal member disposed beneath and spaced from said frame member, a vertical member secured to said horizontal member and passing freely through said guide-way, a weight-supporting roller carried by the lower portion of said vertical member and adapted to operate on the lower run of the track-chain to support the carriage, an idler roller carried by the upper portion of said vertical member and adapted to support the upper run of the track-chain, and a resilient connection between said carriage and said frame member for supporting the latter from the former.

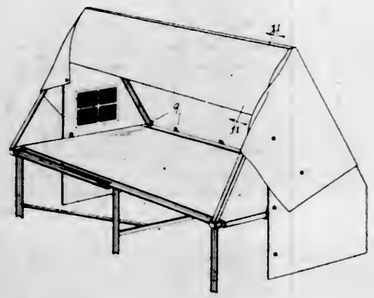
1,374,385. ATTACHMENT FOR WINDMILL-OPERATED PUMPS. WILLIAM R. NICHOLSON, Beaver City, Nebr., assignor of one-half to C. E. V. Smith, Beaver City, Nebr. Filed July 21, 1919. Serial No. 312,245. 2 Claims. (Cl. 103—62.)



1. In an attachment for windmill operated pumps, the combination with a pump, of a vertically slidable sleeve mounted on the pump, said sleeve having flanges, a pump handle pivotally mounted between the flanges, a collar attached to the pump shaft below the slidable sleeve, said sleeve having an extended ear, having a plurality of openings therein, a link adjustably connecting the pump handle to the extended ear of the aforesaid collar, means

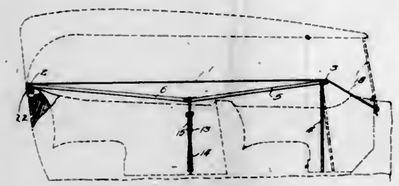
for connecting the slidable sleeve to the reciprocating piston rod and means attached to the slidable sleeve and operatively connecting same with the windmill, substantially as and for the purpose described, whereby the device may be operated either by power or manually.

1,374,386. COLLAPSIBLE ROOFED COT. ISAAC S. PURCELL, Oak Park, Ill., assignor to Tentobed Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 4, 1916. Serial No. 134,854. 3 Claims. (Cl. 5—5.)



1. The combination with a bed-bottom frame having upwardly open sockets, of a tent-support including an angle-steel ridge member and frame-members supporting the ridge member, each frame-member comprising a pair of angle-steel bars pivoted respectively to the two webs of the ridge member at the same end of the latter, and each of these bars having at its free end one web thereof projecting beyond the other web to afford a projecting tip entering one of the said sockets, the end of the said other web affording a shoulder to limit the entry of the tip into the socket.

1,374,387. FOLDING COT. ISAAC S. PURCELL, Oak Park, Ill. Filed Sept. 25, 1918. Serial No. 255,696. 10 Claims. (Cl. 5—72.)



1. In an automobile cot, a frame having sides and ends, a bed bottom stretched between the ends, the sides having hingedly connected sections, separate means to secure the ends to extraneous supports, floor-engaging means to engage the hinged connections to restrict downward movement of the same, and floor engaging means engageable with one of the ends to raise the latter and thereby increase the tension on the bed bottom after initial tensioning thereof.

1,374,388. FINGERING ATTACHMENT FOR STRINGED INSTRUMENTS. CHARLES H. REED, San Francisco, Calif. Filed June 14, 1918. Serial No. 239,922. 3 Claims. (Cl. 84—315.)

2. A fingering attachment for stringed musical instruments having a neck including a transposing keyboard, means for attaching the keyboard to the neck of the instrument, keys on said keyboard for engaging the strings of the instrument, centering keepers yieldingly mounted



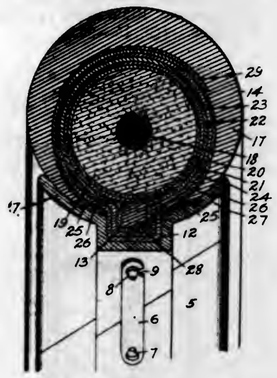
in the keyboard and provided with notches in their lower edges to receive and center the strings with relation to the keys.

1,374,389. CAN. GEORGE T. REICHENBACH, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,892. 3 Claims. (Cl. 220—42.)



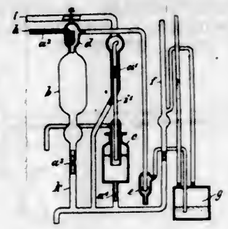
1. A can having an outwardly and downwardly directed flange at its top, and a cover having a depending wall whose maximum internal diameter is less than the normal maximum external diameter of said flange, the inner periphery of said wall being concaved from top to bottom and the outer end of said flange contacting with and being displaced by said cover wall when said cover slides over said flange, such displacement maintaining contact between said flange and said cover wall.

1,374,390. VEHICLE-TIRE. GEORGE W. RODE, Jr., Brooklyn, N. Y. Filed Apr. 22, 1920. Serial No. 375,720. 4 Claims. (Cl. 152—5.)



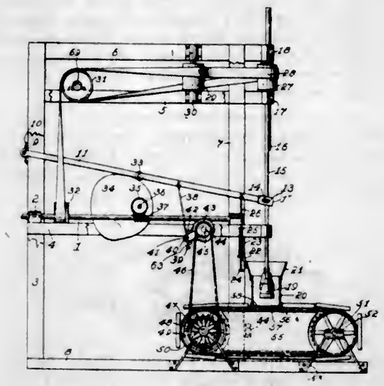
1. A tire comprising an outer shoe of resilient material, a core of solid rubber located in said shoe and arranged concentrically thereof and consisting of a continuous strip, a body of soft cellular-yieldable-material between the core and the walls of the shoe, a bead, and fabric materials separating the walls of the shoe from said cellular material and having interlocked connection with said bead, all of said parts vulcanized together.

1,374,391. APPARATUS FOR ANALYZING GAS. OLOF RODHE, Stockholm, Sweden, assignor to Aktiebolaget Ingeniörsfirma Fritz Egnell, Stockholm, Sweden. Filed Jan. 29, 1917. Serial No. 145,205. 2 Claims. (Cl. 23—3.)



1. In a gas analyzing apparatus in which gas is physically or chemically transformed, a pump, a measuring vessel, fluid piping communicating with said pump and said vessel, and contractions in portions of said piping.

1,374,392. MACHINE FOR FORMING HOLLOW CONCRETE BLOCKS. FRANK A. ROOSA, Orange township, Blackhawk county, Iowa, assignor of one-half to John L. Zeidler, St. Joseph, Mo. Filed Mar. 18, 1920. Serial No. 366,843. 4 Claims. (Cl. 25—36.)

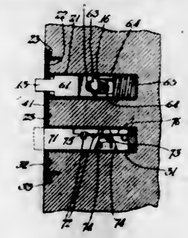


1. In a machine of the character described, an open mold, and a plurality of rotatable spaced troweling bodies movable therethrough, the said bodies being positioned in different relative planes of rotation.

4. In a machine of the character described, an endless carrier, a plurality of orificed pallets mounted thereon, an open top and bottom mold positioned on a pallet, a plurality of rotatable reciprocatory troweling former-heads movable back and forth through said mold and the orifices in the pallet on which the mold is supported, and mechanism to impart a step-by-step movement to said endless carrier, acting to produce each movement at the end of the return movement of the former-heads through said mold.

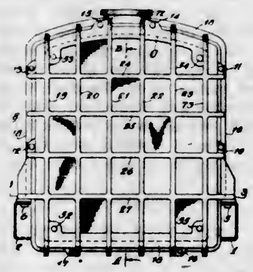
1,374,393. LOCK. FLOYD F. RORABECK, Azusa, Calif. Filed Mar. 7, 1918. Serial No. 221,081. 2 Claims. (Cl. 70—29.)

1. A lock comprising a latch mechanism, a bolt mechanism, each of said mechanisms being mounted inside a cylindrical tube of proper size to slip readily inside a standard wooden door, a flat latch plate rigidly secured to the tube which carries the latch mechanism, a flat bolt plate rigidly secured to the tube which carries the bolt



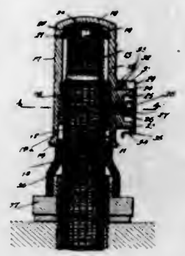
mechanism, and a lock plate fitting in the same mortise as said latch and said bolt plate completely hiding and covering said plates.

1,374,394. COMBINED AUTOMOBILE FENDER AND RADIATOR-PROTECTOR. OSCAR A. ROSS, New York, N. Y. Filed Feb. 15, 1919. Serial No. 277,335. 10 Claims. (Cl. 180—68.)



1. In a combined automobile fender and radiator protector, in combination: an automobile frame; a reticulated hollow structure securely attached to said frame, and a radiator supported and entirely protected over its front and rear faces by said structure.

1,374,395. VALVE-CAP. JOHN SCHMIDT, New York, N. Y. Filed Apr. 27, 1920. Serial No. 376,972. 4 Claims. (Cl. 152—12.)



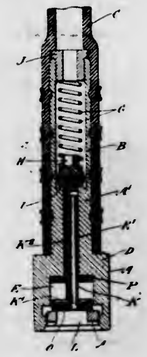
1. An improved cap comprising a tubular body portion having means to engage with the valve stem and being closed at one end, said closed end being provided with a concavity and a groove in the side wall of the body inwardly of the concavity, and an expansible gasket having its inner face substantially flat and adapted to rest on the end of the valve stem and having its outer face rounded on an arc of curvature struck from a radius of lesser length than the radius from which the concavity is struck whereby to provide an annular space about the edge of the concavity to receive the expanded portions of the gasket, the edge of the gasket adapted to fit in said groove.

1,374,396. VALVE-CAP. JOHN SCHMIDT, New York, N. Y. Filed May 28, 1920. Serial No. 384,816. 3 Claims. (Cl. 152—12.)



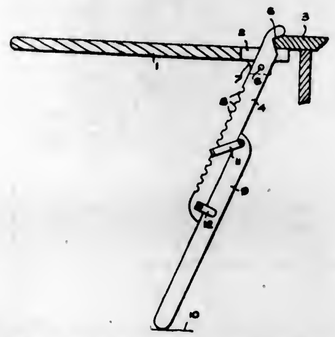
3. A valve cap comprising a tubular body portion provided at one end with a recess, and interiorly threaded to engage a screw threaded valve stem, a tubular extension secured at one end in said recess, a tubular cap member disposed within said tubular extension, having its outer wall spaced from the inner wall of the tubular extension, means to guide the cap member within the tubular extension and acting to maintain the spaced relation between these two parts, spring means disposed in the space between the cap member and tubular extension and engaging said means, said spring means normally holding said tubular cap in retracted position, said tubular cap member adapted to be projected relative to said tubular extension.

1,374,397. INFLATING-COUPLING. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, and HENRY P. KRAFT, Ridgewood, N. J. Original application filed Sept. 7, 1915, Serial No. 49,221. Patent No. 1,304,814, dated May 27, 1919. Divided and this application filed Apr. 2, 1919. Serial No. 286,965. 3 Claims. (Cl. 284—16.)



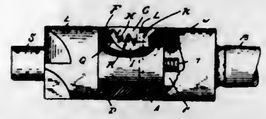
1. An inflating device for pneumatic tires, comprising a casing having a nipple for insertion within the hose, and a foot adapted to project beyond the end of the hose, and of larger diameter, said casing having a valve chamber formed within said nipple, and a lower chamber within said foot, with an intervening contracted passage and a valve seat at the junction of said passage and valve chamber, a check valve and spring in said valve chamber, an unseating member comprising a tubular stem movable in said passage, and a flanged portion movable within the chamber in said foot, and a retaining member closing the lower end of said chamber and having within it an unthreaded opening adapted, when the inflating device is applied to a tire valve, to receive and guide within it the nipple of such valve, whereby by pressing the inflating device endwise against a tire valve, the unseating member is displaced to unseat check valve and admit compressed air to the tire valve.

1,374,398. IRONING-BOARD. WILLIAM GEORGE SEMPLE, North Tonawanda, N. Y. Filed June 21, 1920. Serial No. 390,596. 1 Claim. (Cl. 68—10.)



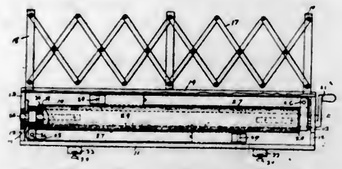
In an ironing board, the combination with the board portion having a longitudinally slotted end, of an upper leg portion having a notched upper end, said upper leg portion extending through the slot in the board portion and hinged to such board portion, guide plates on the sides of the upper leg portion, teeth on one face thereof, a lower leg portion slidably engaging the upper leg portion and a U shaped member hinged to the lower leg portion and straddling the upper leg portion, the cross bar of the U shaped member adapted to engage the respective teeth on the upper leg portion.

1,374,399. CHUCK OR HOLDER. FRANK E. SHAILOR, Detroit, Mich., assignor to George A. Gloor, Detroit, Mich. Filed Oct. 9, 1918. Serial No. 257,511. 8 Claims. (Cl. 279—77.)



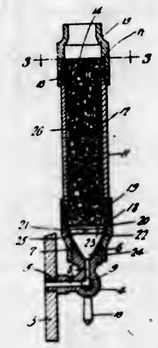
1. The combination with a rotary holder having an axial recess, of a dog projecting into said recess and providing a shoulder at its inner end, and a tool having a shank for fitting said recess provided with a longitudinal slot for the passage of said dog, said slot having a lateral offset forming a shoulder for engaging the shoulder on said dog and means yieldably urging the dog into said recess.

1,374,400. COMBINATION AUTOMOBILE-BED. SIEGFRIED SHIREK and WILLIAM H. FENTON, Portland, Oreg. Filed June 14, 1920. Serial No. 388,951. 4 Claims. (Cl. 5—72.)



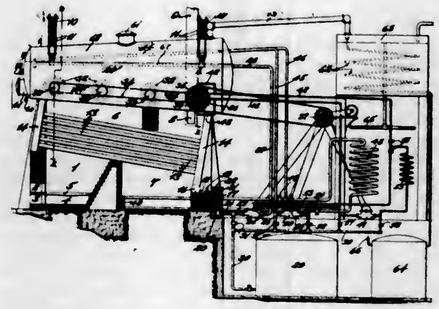
1. In combination, in an auto bed, a bed bottom roll, a roller member for receiving said bed roll, side rails for said auto bed, and means rotatably securing the side rails to the roller member and adapted to permit the side rails to lie in parallelism to said roller member.

1,374,401. PRIMING DEVICE. FRANK G. SLEMMER, Centerville, Md. Filed July 16, 1919. Serial No. 311,338. 2 Claims. (Cl. 123—180.)



1. A portable primer for internal combustion engines, of sufficient bulk to hold heat during the transportation of the primer to the engine from a remote source of heat, said primer having means for effecting a slip-joint connection with an engine, and having a passageway so located that a priming charge may flow therethrough by gravity, one end of the passage being open to the atmosphere, to permit the introduction of a priming charge.

1,374,402. APPARATUS FOR DISTILLING PETROLEUM-OILS. ARTHUR D. SMITH, Arkansas City, Kans. Filed Mar. 13, 1917. Serial No. 154,469. 8 Claims. (Cl. 196—14.)

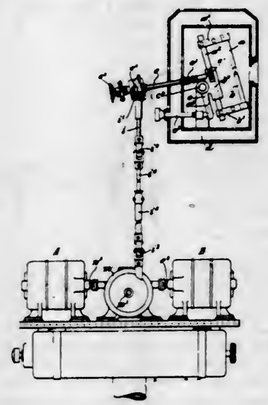


1. A still for treating petroleum oils comprising a main shell having a sloping bottom and sloping tubular portions connected to said shell at their ends and exposed to heat, so as to induce a cyclic circulation through said tubes and shell, and a well below and communicating with the lower end of said shell, said sloping bottom lessening carbon deposition by promoting continuous movement of the heavier parts of the still charge.

1,374,403. PROCESS OF CURING CEMENT. GODFREY LEWIS SMITH, Newport News, Va. Filed July 24, 1918. Serial No. 246,480. 5 Claims. (Cl. 18—47.5.)

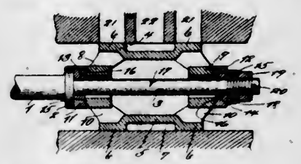
1. A process of curing articles of cement, cement mortar or cement concrete, which consists of the application of heat and of the application and maintenance at all times of an air or gas pressure thereto and thereon in excess of the pressure of saturated steam having the temperature of the moisture within the pores of the cement, mortar or concrete.

1,374,404. AUTOMATIC ARC-REGULATOR. JAMES E. SOONS, New York, and HARRY ROBINSON, Brooklyn, N. Y., assignors of one-half to Edward Caterson, Woodlawn, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,159. 12 Claims. (Cl. 176—74.)



1. An automatic arc regulator embodying therein means whereby relative movement may be imparted to the electrodes, a differential transmission mechanism, operative connections between said transmission mechanism and said means, a motor operative upon said transmission mechanism to impart thereto a normal tendency to separate the electrodes, means whereby continuous constant power is developed in said motor, and a motor having a different speed than said first named motor operative upon said transmission mechanism to impart thereto a normal tendency of the electrodes to approach each other and connected in shunt with said electrodes, whereby the normal difference in speed of said motors will impart gradual feeding movement to said electrodes and the speed of said last named motor will vary with the resistance at the arc to compensate for irregularities in said feed.

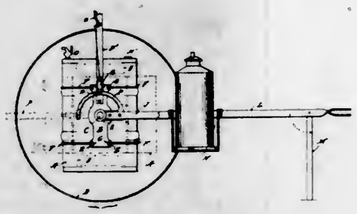
1,374,405. SELF-ALINING PISTON-VALVE. PHILIP HENRY STEINER, San Francisco, Calif. Filed Dec. 17, 1919. Serial No 345,562. 3 Claims. (Cl. 121—193.)



1. In a device as set forth, a reciprocating rod having a piston valve carrying end, a slide piston valve unit provided with opposite head members having axially alined openings, through which the valve carrying end passes, the exterior opposite ends of the head members having spherical convexed portions concentric with the center of the piston valve, said rod having a collar integral with one end of the valve carrying end, a removable collar on the valve carrying end adjacent said integral collar, a second removable collar on the opposite end of the valve carrying end of the rod, means for holding the second collar in position, said removable collars being axially

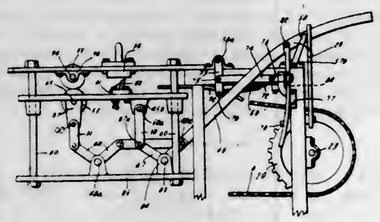
alined and having their adjacent faces spherically concaved concentric with and coöperatively engaging the spherical convexed portions of the head members, the axially alined openings of the head members being of diameters larger relatively to the diameter of the valve carrying end, whereby the valve is capable of rocking movements at right angles to the valve carrying end on a radius from an approximate center of the valve carrying end.

1,374,406. BARREL-CART. LAWRENCE L. STEINKE, Farmington, Ill. Filed Aug. 16, 1919. Serial No. 317,970. 6 Claims. (Cl. 280—51.)



1. In a barrel cart, the combination of a plurality of barrels, means embracing both barrels acting to clamp them in rigid relation, a spacing member clamped between the barrels by said embracing means, trunnions extending from the embracing means at opposite sides thereof, supporting wheels engaging the trunnions, and a draft frame engaging the trunnions.

1,374,407. DECORTICATING-MACHINE. CHARLES PARRIS STEWART, Manila, P. I. Filed June 30, 1919. Serial No. 307,773. 8 Claims. (Cl. 13—18.)



4. In a machine for extraction of vegetable fiber, means for stripping and squeezing fibrous material, means for drawing fibrous material through said first mentioned means, a pair of rollers between which the material is drawn, and means for rotating said rollers in a direction to assist the movement of the material and at a speed higher than that at which the material is drawn through the machine, said rolls being located close to the first mentioned means and serving to relieve the fiber from longitudinal strain as soon as it has passed through the rolls.

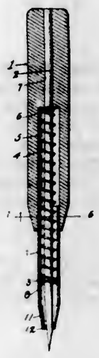
1,374,408. METHOD OF BUILDING TIRES. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 29, 1918. Serial No. 247,208. 7 Claims. (Cl. 154—14.)

1. The method of fabricating a tire carcass that comprises, superposing a helical winding of cord elements around a pair of spaced apart bend rings to form an annular wrapping therefor, folding the cords of the inner portion of the annulus into the outer portion thereof and



in angular relation with respect thereto, and shaping the structure thus formed into its ultimate cross-sectional contour.

1,374,409. TUFTING DEVICE. ROLLO H. VALENTINE, Clinton, Ill., assignor of one-half to Richard I. Hall, Clinton, Ill. Filed May 10, 1920. Serial No. 380,251. 1 Claim. (Cl. 112—80.)

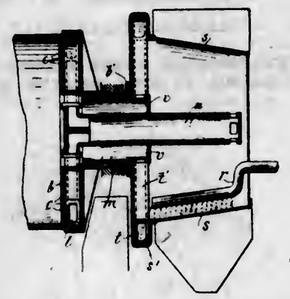


A tufting device comprising a one piece rectilinear handle provided with a relatively large central longitudinal bore opening through its front end and occupying substantially half of its length, said handle having a smaller bore leading from its rear end into said larger bore, a one piece needle of uniform cross section and tubular form throughout its length, said needle being rigidly secured in said smaller bore and extending forwardly through said relatively large bore and beyond the front end of the handle, the front end of said needle being sharpened and having an eye, a one piece sleeve slidable in said relatively large bore and extending forwardly therefrom around and spaced from said needle, said sleeve having its front end contracted around said needle, a coil spring in said sleeve and said relatively large bore, means securing the outer end of said spring to said sleeve, and means securing its inner end to said needle.

1,374,410. BALL-MILL FOR CRUSHING ORES. MIKAEL VOGEL-JØRGENSEN, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed Aug. 20, 1919. Serial No. 318,789. 3 Claims. (Cl. 83—9.)

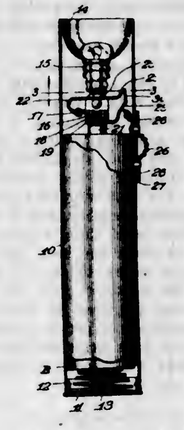
1. In a grinding mill, in combination with a supporting trunnion for the mill at the discharge end in open communication with the mill, but extending beyond the end wall thereof, a grate adjacent the discharge head through which the material is discharged, a discharge pipe extending through the trunnion and adapted to receive the material from the grate and to convey it beyond the end of

the trunnion, a screen supported at the end of the discharge trunnion to receive the material from the discharge pipe, and means to return the coarse material from



the screen to the trunnion whence it is conveyed therethrough in a direction counter to the direction of travel through the discharge pipe for return to the mill.

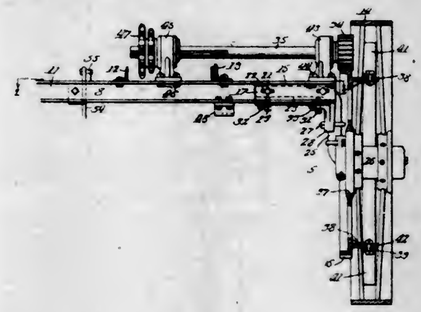
1,374,411. FLASHLIGHT. GEORGE V. C. VREELAND, East Orange, N. J., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,791. 2 Claims. (Cl. 240—8.5.)



1. In a flashlight, a circuit closing device comprising, in combination, a supporting member, a reversely bent spring contact element carried thereby and insulated therefrom, a movable spring contact element carried thereby and insulated therefrom and having an end extending adjacent the end of the first mentioned element and an inclined camming edge, and a sliding member having an insulated contact block upon the upper end thereof and adapted to coöperate with the inclined camming edge of the second mentioned element to cam the same into engagement with the first element and close the circuit.

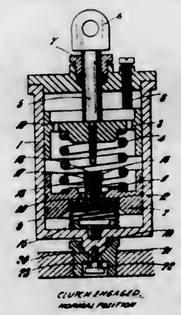
1,374,412. RUNNING-GEAR FOR MOTOR-VEHICLES. LEWIS E. WATERMAN, HARRY R. TRAPHAGEN, and HOWARD L. WATERMAN, Rockford, Ill., assignors to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Original application filed June 9, 1919, Serial No. 302,695. Divided and this application filed June 9, 1919. Serial No. 302,697. 14 Claims. (Cl. 180—70.)

1. In a motor vehicle, the combination of a frame including a pair of transverse beams at each side thereof, an axle bracket interposed between and bolted to the beams of each pair at the outer end thereof, a pair of traction wheels, an axle for each traction wheel having a horizontal portion mounted on one of said brackets, and adjust-



ing means operative between the bracket and said axle portions for adjusting the latter to change the position of its respective traction wheel relative to the frame.

1,374,413. CONTROLLING DEVICE FOR POWER-TRANSMISSION CLUTCHES. WILLIAM HUBERT WEBB, Randalstown, Ireland. Filed Feb. 18, 1918. Serial No. 217,980. 7 Claims. (Cl. 188—96.)

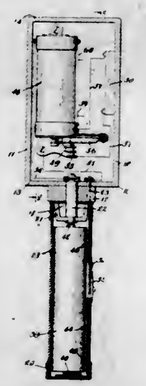


1. A dashpot device for use in controlling the engagement of power transmission clutch mechanism, said dashpot device comprising a cylinder adapted to contain fluid, a piston therein, a valve adapted to open to allow displacement of fluid past the piston as it moves in one direction, but to prevent the passage of the fluid in the other direction, a subsidiary valve adapted to allow the return flow of the fluid slowly when the pressure applied to the piston is comparatively high, and still more slowly when the pressure applied to the piston becomes less, a second additional valve device adapted to allow comparatively rapid return flow of the fluid when the pressure on the piston falls still lower, and mechanism including a resilient element adapted to effect the relative movements of the piston in the cylinder, and to communicate the reactions of said piston to the mechanism to which the dashpot device may be applied.

1,374,414. ELECTROMEDICAL BRUSH. HENRY WEISS, New York, N. Y. Filed July 25, 1919. Serial No. 313,141. 2 Claims. (Cl. 174—173.)

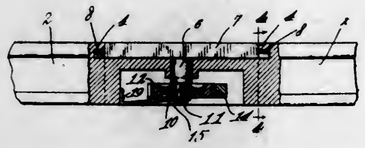
1. The combination, in an electro-medical brush, of a hollow back, a pair of electrodes each in the form of a conductive spiral spring yieldingly held lengthwise on the hollow back so that the convolutions of both springs be-

tween their ends will serve as brushing cushions, said electrodes being interposed in a high frequency electric circuit having its current waves stabilized and the elec-



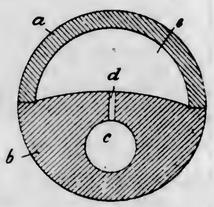
trodes being in spaced relation so that the circuit will be closed when the electrodes are brought into contact with the flesh of a person.

1,374,415. RAILROAD-CROSSING. CHARLES H. WHITE, Hanford, Calif. Filed Oct. 19, 1920. Serial No. 417,969. 3 Claims. (Cl. 246—378.)



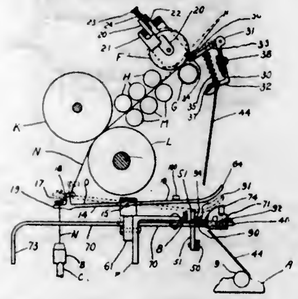
1. In a device of the class described, a casing provided with pairs of alined rails; a rail section journaled on the casing and movable into and out of alinement with the rails of the respective pairs, the rail section being vertically movable on the casing; means for raising the rail section off the casing; means for swinging the rail section into alinement with the rails of the respective pairs; and interengaging elements on the ends of the rail section and on the rails for forcing the rail section downwardly upon the casing when the rail section is swung into alinement with the rails of either pair.

1,374,416. PLANT FOR WARMING AND MOISTENING THE SOIL-SURFACE. POUL WILDE, Strömmen, near Randers, Denmark. Filed July 11, 1918. Serial No. 244,359. 2 Claims. (Cl. 61—13.)



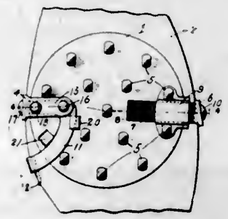
1. A device of the class described, comprising a base block of impervious material provided with a centrally located, longitudinal bore and a plurality of vertically extending openings communicating with said bore, and a shell of porous material semicircular in cross-section and having its edges in close contact with the edges of said block thereby to form with the upper side of the block a closed chamber in communication with said vertical openings.

1,374,417. STOP-MOTION. GEORGE M. ABBAGG, Lawrence, Mass. Filed May 7, 1919. Serial No. 295,302. 10 Claims. (Cl. 19—25.)



1. In a spinning frame having back drawing rolls, front drawing rolls and a bobbin, the combination of a two-part rocking member, the front part terminating in a thread guide over the bobbin between the front drawing rolls and the bobbin so arranged that the roving will be given a double bend in passing therethrough, and being pivoted to rock vertically on the frame, and the rear part being pivoted to the front member so as to rock vertically independent thereof and to swing horizontally, both within the limits of suitable stops, with a vibrator, a stretcher plate in which is a slot having a shoulder, a hook carried by such stretcher plate, a spring having a slot in operative relation with the slot and shoulder of the stretcher plate so pivoted to the back of the stretcher plate that it can be caught under the hook with its front end under the rear part of the rocking member, and a flexible member which passes through both slots, together with a carriage adapted to slide under the back part of the rocking member and over the spring to set the flexible member on the shoulder of the stretcher plate and to depress and catch the spring under the hook by the same movement, and padded means held out of action by the flexible member for separating the back drawing rolls, and for holding the roving thereat whereby it is broken behind and close to the front rolls.

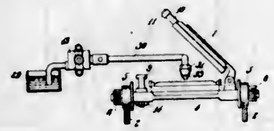
1,374,418. ICE-CREEPER. JOHN HAERMS BECKER, Bloomington, Ill. Filed July 19, 1920. Serial No. 397,175. 4 Claims. (Cl. 36—64.)



1. An ice creeper comprising a plate having a tongue extending therefrom, the plate and tongue being provided with transversely extending teeth and the tongue having a cutout at a point intermediate its length and being bent back at the cutout to provide a clamping bracket, a jaw having a shank extending between the plate and bracket through the cutout and having teeth engaged by the teeth

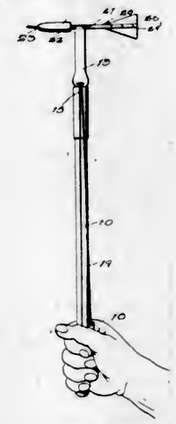
of the plate and bracket to releasably hold the jaw in a set position, and a movable clamping element connected with the oposite side portion of the plate.

1,374,419. WAFER-BAKING APPARATUS. MARTIN H. BERGEN, New York, N. Y., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed July 9, 1919. Serial No. 309,608. 3 Claims. (Cl. 107—58.)



1. In wafer-baking apparatus, the combination of an endless chain of elongated baking pans having movement in one direction, said pans having flat body portions with raised edge portions at their longitudinal edges only and lids adapted to press upon batter on said body portions between said edge portions, means for raising said lids at a point in the progression of said pans, means for placing a puddle of batter centrally on each of said pans, which puddle is continuous in the direction of the length of the pan, and means for thereafter pressing down said lids, said pans having their transverse edges out of contact with each other when said lids are pressed down, to afford space for the escape of steam.

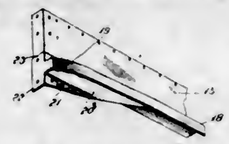
1,374,420. TOY. ANDREW PETER BERGGREEN, St. Paul, Minn. Filed Nov. 19, 1920. Serial No. 425,215. 5 Claims. (Cl. 124—1.)



1. A toy comprising in combination a projectile including a head provided with a point and a socket, a shaft having its forward end received in the socket of the head and provided with a cavity, a body of relatively heavy mass received in the cavity and a vane carried by the tail end of said shaft, a staff, and a projectile holder carried by the staff and including spring gripping members adapted to engage the shaft of the projectile.

1,374,421. RAILWAY-CAR-WALL CONSTRUCTION. CHARLES D. BONSALL, Parnassus, Pa., assignor to Walter P. Murphy, New York, N. Y. Original application filed Nov. 14, 1919, Serial No. 338,075. Divided and this application filed Aug. 21, 1920. Serial No. 405,017. 14 Claims. (Cl. 105—410.)

1. A sheet metal end panel for a railway car comprising a metal sheet formed with a pressed rigidifying rib having an angle bar configuration at the middle and its ends bent over on diagonal lines to provide channeled por-

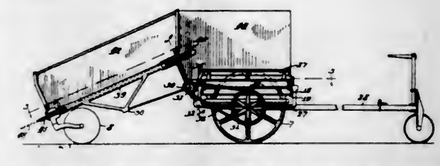


tions which taper in depth and which terminate with closed ends adjacent the sides of the car.

1,374,422. RECOVERY OF SULFUR FROM ITS ORES. GILBERT A. BRAGG, Thompson, Nev., assignor, by mesne assignments, to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Mar. 13, 1918, Serial No. 222,223. Renewed Sept. 12, 1919. Serial No. 323,438. 6 Claims. (Cl. 23—10.)

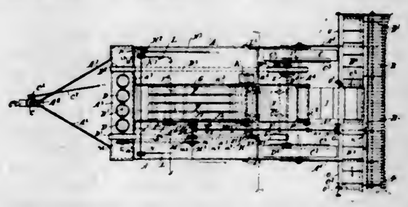
1. The method of recovering sulfur from its ores, which comprises heating an ore pulp, made up of a mixture of the finely divided ore in a suitable liquid medium, to the melting point of the sulfur contained in the ore pulp, agitating the mass so as to cause coalescence of individual melted sulfur particles into aggregates larger than the gangue particles, solidifying the sulfur aggregates thus formed, and ultimately separating the solidified sulfur aggregates from the gangue; substantially as described.

1,374,423. GRAIN-LOADER. EDWIN H. BREMER, Freeport, Ill. Filed June 20, 1919. Serial No. 305,674. 5 Claims. (Cl. 193—2.)



1. A bundle carrier of the character described comprising a pair of drive wheels, an axle supported thereby, a pair of front caster wheels, a frame supported by the drive and caster wheels, an endless transverse conveyer centrally above the axle and having a horizontal bundle-receiving portion and an inclined elevator portion, a transverse shaft on the frame in front of said conveyer, driving connections between one of the drive wheels and said shaft and between the latter and the conveyer, forward and rear pairs of laterally spaced sprocket wheels on the forward portion of the frame on inclined axes, endless bundle pick-up devices trained above said sprocket wheels and adapted to elevate bundles and deposit them on the horizontal bundle-receiving portion of the transverse conveyer, and driving connections between the rear sprocket wheels and said transverse shaft.

1,374,424. POWER-DRIVEN STRIPPER OR HEADER HARVESTER. JOHN OLIVER BROOK, Curban, New South Wales, Australia. Filed Jan. 19, 1918. Serial No. 212,661. 8 Claims. (Cl. 56—20.)



7. In a power-driven stripper harvester, the combination of a frame formed of detachably connected sections, a

motor mounted on one of said sections, a pair of traveling wheels supporting the other of said sections, means of transmitting motion from said motor to said wheels, and means for mounting a pair of wheels on said motor section when detached from the other section.

1,374,425. SANDPAPER-DRUM. WARREN L. BROWNE, Vallejo, Calif. Filed Oct. 2, 1920. Serial No. 414,172. 7 Claims. (Cl. 51—194.)



1. A device of the character described comprising a drum, a sheet of abrasive material on said drum, devices at the ends of the drum within which the sheet is clamped and held on the drum, and spring means urging said devices outwardly away from the ends of the drum.

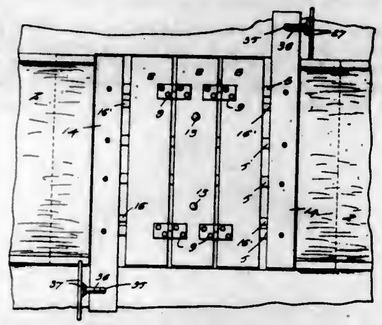
1,374,426. FOUNTAIN DRAWING-PEN. HERMANN BURKHARDT, Rueschlikon, Switzerland. Filed Oct. 16, 1919. Serial No. 331,165. 2 Claims. (Cl. 120—43.)



1. A fountain drawing pen comprising an ink receptacle, guided in an outer tube provided at the top with an opening for the admission of air, and which can be displaced therein in an axial direction and is normally pressed upwardly by a spring so that its upper open end is forced against a closing plug firmly connected to the outer guide-tube, thereby shutting off atmospheric air, said receptacle also carrying a button within easy reach of the fingers guiding the pen, in such a way that the upper end of the ink receptacle is removed from the closing plug by pressing the button downward, and said upper end is opened for the admission of atmospheric air.

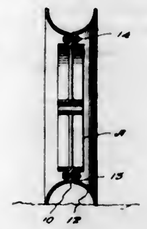
1,374,427. SIGNAL. GEORGE V. BURRIS, Courtland, Calif. Filed Nov. 12, 1919. Serial No. 337,528. 1 Claim. (Cl. 116—67.)

A signal comprising a supporting frame adapted to be placed in a roadway and embedded therein, a sectional tread member mounted on said supporting frame, a signal supporting member positioned within said supporting frame beneath the central section of said tread member, a signal carried by said signal carrying member, an operating rod for said signal extending upwardly through said signal carrying member and engaging the under face of the central section of said tread member, means engaged around said signal operating rod to resiliently retain the latter in unoperated position and in engagement with the under face of said central section of the tread member, means positioned between said central section of the tread member and said signal carrying member to resiliently retain the central section of said tread member in raised



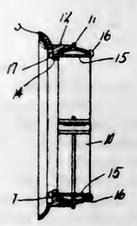
position, guide arms for said tread member connected with the outer sections thereof, and means to receive said guide arms and retain the latter against lateral movement during operation of the signal.

1,374,428. WHEEL ATTACHMENT. ELLIS H. CHADDERDON, Cambridge, Nebr. Filed Dec. 30, 1919. Serial No. 348,278. 3 Claims. (Cl. 301—39.)



1. An attachment for tractor wheels comprising two members arranged at the opposite sides of the wheel, a curved tread portion formed on each member, said curved tread portions being arranged to provide a concaved periphery for the wheel, and means for holding the members together and fixed upon the wheel.

1,374,429. ATTACHMENT FOR TRACTOR-WHEELS. ELLIS H. CHADDERDON, Cambridge, Nebr. Filed June 19, 1920. Serial No. 390,124. 3 Claims. (Cl. 97—81.)



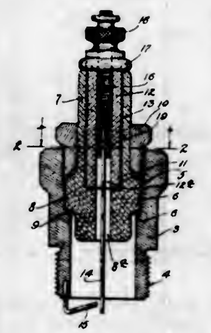
1. An attachment for tractor wheels having a centrally disposed rim, an attachment comprising an annulus adapted to surround a portion of the tread of the wheel, and formed to provide an outwardly curved or flared portion of greater diameter than the diameter of the wheel and wholly disposed to one side thereof, radially disposed apertured lugs carried by said annulus, and fastening elements engaging said lugs and the opposite side of the wheel for holding the attachment in position for use.

1,374,430. BATH-SPRAY. MARY F. CHEVALIER, Baldwin Park, Calif. Filed Sept. 22, 1919. Serial No. 325,532. 1 Claim. (Cl. 4—26.)



A bath spray comprising a soft flexible hose adapted for attachment at one end to a faucet, perforations adjacent the opposite end, a hook embedded in the extremity of said end, and an eye embedded in the hose adjacent said end, for connecting the ends of said perforated portion to form a loop.

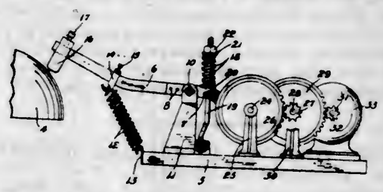
1,374,431. SPARK-PLUG. CHARLIE N. CLARK, Minneapolis, Minn., assignor to Anton V. Olson, Minneapolis, Minn. Filed Dec. 15, 1919. Serial No. 345,015. 3 Claims. (Cl. 123—169.)



1. In a spark plug, the combination with a tubular metallic shell, of a porcelain core extended into and anchored to said shell, a tubular glass bushing extended axially within said core and anchored therein, a metallic rod extended into and anchored to the outer portion of said core, and an axial electrode anchored to said rod extended axially therefrom through the inner portion of said glass bushing and through said core to the inner end of said shell, said axial electrode being spaced from the surrounding walls of said core bushing and shell, and a grounded electrode applied to the inner end of said shell for coöperation with the inner end of said axial electrode.

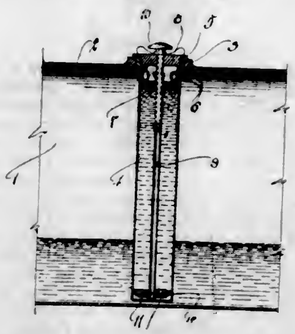
1,374,432. FIRE-ALARM-BELL ACTUATOR. WELLINGTON S. CLAY, Hutchinson, Minn. Filed June 21, 1919. Serial No. 305,851. 2 Claims. (Cl. 116—167.)

1. The combination with a bell, of a base support having pedestals thereon, a lever intermediately pivoted on one of said pedestals and provided at its long end with a bell striking hammer, and provided at its short ends with a roller, a main spring connecting the long end portion of said lever to said base support, a fixed post rising from said base and extending by the short end of said lever, a coiled spring on said post reacting against the short end of said lever and against an adjustable abutment on



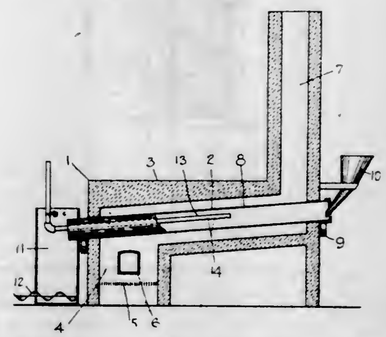
the upper end of said post, and a motor actuated tappet operative on the roller of said lever to intermediately retract said lever and to release the same.

1,374,433. RESERVE SUPPLY-TANK. AMBROSE W. CODD, Spokane, Wash. Filed Mar. 24, 1920. Serial No. 368,276. 2 Claims. (Cl. 158—46.5.)



1. The combination with a main fuel supply tank having a threaded opening in its top wall, of an open end reserve supply tank secured in the opening and provided with upper overflow ports, a perforated cap secured in the open end of the reserve tank, a hollow lift stem supported in the cap and a valved lift head on the lower end of the stem, normally located at the bottom of the reserve tank.

1,374,434. PROCESS OF TREATING ORE. CALEB G. COLLINS, Woodmere, N. Y., assignor to C. Amory Stevens, New York, N. Y. Filed Jan. 13, 1920. Serial No. 351,221. 5 Claims. (Cl. 75—17.)



1. The method of preparing ore, which consists in heating the ore to drive off air and moisture, and treating it with material to prevent the reëntry of air and moisture, and thereafter concentrating the ore.

1,374,435. MANUFACTURE OF ZINC SULFID. PAUL COMMENT, Mulhouse, France. Filed Apr. 23, 1919. Serial No. 292,096. 4 Claims. (Cl. 134—78.)

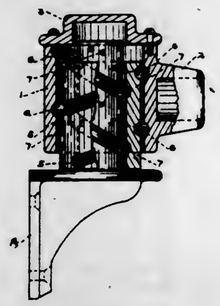
1. A process for preparing anhydrous sulfid of zinc, stable against atmospheric agents and applicable in painting, comprising calcining a mixture comprising a polysulfid of zinc other than the persulfid and a salt of zinc comprising an oxygenated compound of sulfur.

1,374,436. COMBINED PRIMER AND HUMIDIFIER FOR AUTOMOBILE-ENGINES. FRANK CONWAY, Schenectady, N. Y. Filed May 13, 1920. Serial No. 381,139. 1 Claim. (Cl. 277—57.



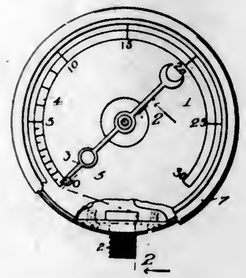
A device of the class described comprising a substantially cylindrical body provided with an attaching flange adapted for connection to an automobile dash-board; a plurality of screw-threaded bored extensions projecting from the outer face of the body, a central extension serving as an outlet and having its bore extending into and terminating at the center of the body, the bores of the remaining extensions extending entirely through the body and being increased in diameter at points intermediate their ends, forming shoulders which constitute valve seats, the enlarged portions of said last named bores being screw-threaded; screw-valves threaded into said bores and coöperating with the seats; said body being also provided with another screw-threaded bore extending from its center and opening through its inner face, and with a plurality of radial passages connecting all of the bores with said outlet bore; and a tubular screw-threaded stem extending into the last named bore, having its inner end reduced in diameter and engaging the closed inner end of this bore.

1,374,437. GATE-HINGE. JAMES W. COOMBS, Seattle, Wash., assignor of one-half to Thomas H. Major, Seattle, Wash. Filed Sept. 27, 1920. Serial No. 412,929. 2 Claims. (Cl. 16—163.)



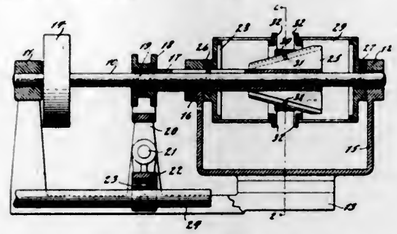
2. A hinge, comprising a casing having a removable top, said casing provided interiorly with a spiral groove, mounted within the casing, a cylindrical member provided exteriorly with a spiral groove complementary to said groove in the casing and a spiral groove interiorly, said last named groove being located in reversed relation to the exterior groove of said member, a second cylindrical member rotatably mounted within the first member, provided with a spiral groove complementary to said interior groove of the first member, a plurality of ball bearings operatively located in said grooves, and means whereby lateral and up and down movements may be imparted to said hinge.

1,374,438. STOP-PIN FOR GAGE-DIALS. ERNEST B. CROCKER, Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed Feb. 3, 1921. Serial No. 442,027. 11 Claims. (Cl. 116—129.)



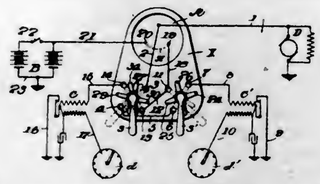
1. In a gage, the combination with a dial face and a hand operating thereover, a cover for said dial face, a stop pin for said hand, and means for maintaining said stop pin in contact with said cover.

1,374,439. VARIABLE-SPEED DEVICE. JOHN DOHERTY, New York, N. Y., assignor to Morris I. Kopple, Far Rockaway, N. Y. Filed Oct. 25, 1919. Serial No. 333,174. 4 Claims. (Cl. 64—8.)



1. A shaft, a pair of fixed members spaced apart thereon and connected thereto, a sectional driving pulley located between said fixed members, the sections of said pulley being mounted for radial movement between said members, a member movable longitudinally of said shaft and constructed and arranged to change the radial positions of said sections and thereby change the working diameter of said pulley, and means for moving said member while said shaft is in motion, said fixed members comprising drums arranged to inclose said movable member.

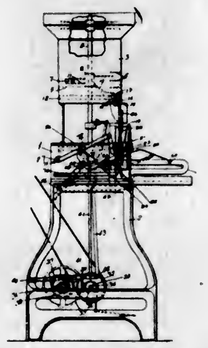
1,374,440. IGNITION-SWITCH. FRANK M. FOSTER, Washington, D. C. Filed Apr. 10, 1920. Serial No. 372,842. 7 Claims. (Cl. 290—41.)



1. The combination with a generator, storage battery, and ignition device, of a pair of mechanically independent

switches arranged to electrically coöperate to connect the generator with the battery and ignition device, means whereby the generator connection may be broken by moving either switch, and means whereby one of said switches may connect the battery and ignition device only.

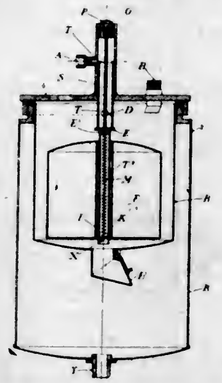
1,374,441. SCRAP-BUNCHING MACHINE. HARRY T. FROEHLICK, Philadelphia, Pa., assignor, by mesne assignments, to Charles F. Stauffen, Baltimore, Md. Filed June 26, 1917. Serial No. 177,008. 12 Claims. (Cl. 131—39.)



1. A cigar bunching machine comprising a supply means feeding into an approximate measuring means, an approximate measuring means feeding into a forming means, a forming means forming the tobacco into an approximate degree of compactness feeding into a measuring means, a measuring means and means for separating the tobacco in the measuring means from the forming means.

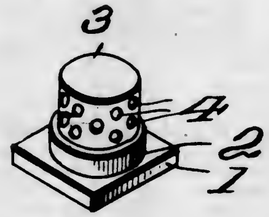
2. A cigar bunching machine comprising a supply means feeding into an approximate measuring means, an approximate measuring means feeding into a forming means, a forming means forming the tobacco into an approximate degree of compactness feeding into a measuring means, a measuring means, means for separating the tobacco in the measuring means from the forming means, a rolling belt provided with means to form the same into definite position and means for discharging from the measuring means into said belt.

1,374,442. VACUUM-FEED TANK FOR INTERNAL-COMBUSTION ENGINES. LEONCE GARNIER, San Sebastian, Spain. Filed Jan. 22, 1920. Serial No. 353,186. 6 Claims. (Cl. 158—36.)



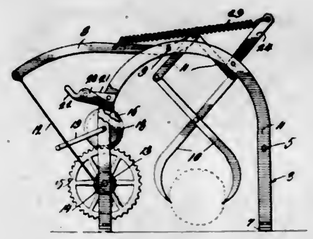
2. A vacuum feed tank for internal combustion engines, comprising, in combination, a float chamber, a float therein, a delivery chamber, a non return valve affording a communication between said chambers, a suction conduit and an air inlet both adapted to communicate with the float chamber, a sleeve opening into the float chamber and having a lateral suction opening in communication with the suction conduit, a tubular slide valve, movable in said sleeve under the action of the float and adapted to control said lateral suction opening, a puppet valve for controlling the air inlet independent of the tubular slide valve and a spring interposed between the float and the air inlet puppet valve and adapted to be progressively compressed by the float as the latter is rising.

1,374,443. MARKER. PEDRO GIORDANO, Buenos Aires, Argentina. Filed Nov. 13, 1919. Serial No. 337,812. 3 Claims. (Cl. 40—3.)



1. A marking ring, for identification and control purposes, comprising a pin provided on its shank with transverse orifices, designed to hold between its riveted extremities two safety washers which in their turn secure an identification plate also fitted on the shank of the said pin and a portion of the object which it is desired to identify, also traversed by the pin, between one of the said safety washers and the identification plate, substantially as has been described.

1,374,444. HOISTING APPARATUS. ANNIE GOLTRY, North Platte, Nebr. Filed Oct. 18, 1919. Serial No. 331,626. 3 Claims. (Cl. 254—145.)

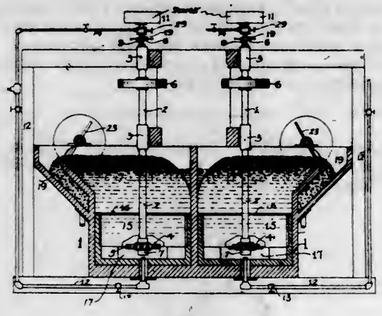


1. A hoisting apparatus comprising a frame, a lever pivoted adjacent one end to the frame, grapple means connected to the end of the lever adjacent its fulcrum, means connected with the other end of the lever for actuating the same, and means for automatically lowering the grapple means.

1,374,445. APPARATUS FOR TREATING LIQUIDS WITH GASES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Nov. 4, 1919. Serial No. 335,760. 10 Claims. (Cl. 261—93.)

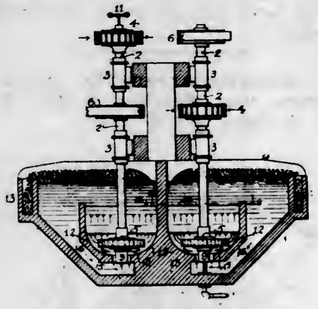
1. In apparatus for treating liquids with gases, a tank adapted to contain a liquid, a rotary atomizer having gas passages extending from its central portion toward its

periphery suspended within the tank and submerged in the liquid, means for causing a flow of gas to the central portion of the atomizer, means for causing a flow of liquid in the tank to the central portion of the atomizer,



rotary means for mixing the gas and the liquid, means for ejecting the mixture of gas and liquid through the gas passages of the atomizer from its central portion toward the periphery and into the liquid in the tank, and means for rotating the atomizer about its vertical axis.

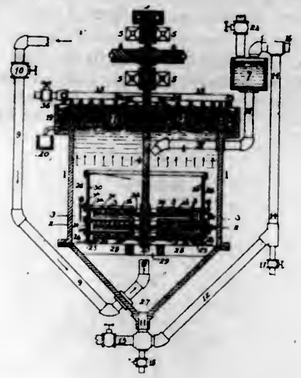
1,374,446. APPARATUS FOR TREATING LIQUIDS WITH GASES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Oct. 16, 1918, Serial No. 258,462. Renewed May 25, 1920. Serial No. 384,157. 11 Claims. (Cl. 261—93.)



1. In apparatus for treating liquids with gases, a tank adapted to contain a liquid, a rotatably mounted hollow shaft, means attached to the shaft above the liquid for causing a flow of gas through the hollow shaft, means submerged in the liquid attached to the shaft and rotating with it for atomizing the gas in the liquid, and means for rotating the shaft.

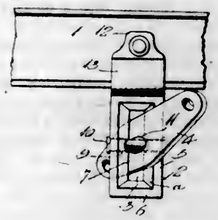
1,374,447. FLOTATION APPARATUS. WILLIAM E. GREENAWALT, Denver, Colo. Filed May 26, 1916, Serial No. 100,001. Renewed Mar. 22, 1920. Serial No. 367,829. 20 Claims. (Cl. 261—93.)

1. In apparatus for separating minerals from their gangue by flotation, a tank adapted to contain a liquid and the material to be treated, a shaft rotatably mounted suspended within the tank, a plurality of perforated disks mounted on said shaft, a plurality of perforated stationary plates interposed between the disks and alternating with them, means for rotating the shaft and disks, and means for introducing a gas into the liquid in the tank and by its own buoyancy passing it upwardly through



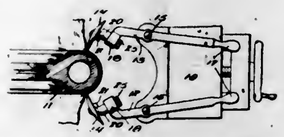
the perforated disks and plates, and thus by atomizing the gas in contact with the liquid causing the floatable material to rise to the surface of the liquid.

1,374,448. BRAKE-BEAM FULCRUM. GEORGE HARMAN, THOMAS E. CANNON, and NICHLAUS C. BETTENBURG, St. Paul, Minn. Filed Feb. 12, 1920. Serial No. 358,249. 2 Claims. (Cl. 188—232.)



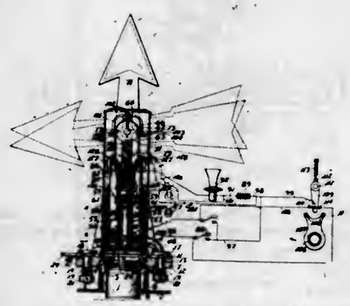
1. A brake beam fulcrum comprising a frame provided with a slot for receiving a brake lever, the inner faces of each of the side bars of the frame being beveled in opposite directions from its longitudinal center to its edges, a centrally disposed pin extending transversely between said side bars, and a brake lever pivotally mounted on said pin, whereby it may be positioned for right hand, left hand or central connection to the brake-rigging.

1,374,449. TIRE-MACHINE. WILLIAM B. HARSEL, Akron, Ohio, assignor to Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 8, 1918. Serial No. 243,924. 11 Claims. (Cl. 154—10.)



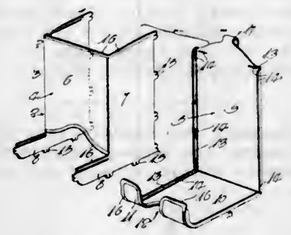
1. A stitcher mounting comprising a support, a member journaled in said support, an offset portion upon said journaled member, and a stitcher mounted for free rotation upon said offset portion and adjustable in a vertical plane concentrically about said journaled portion.

1,374,450. DIRECTION-SIGNALING DEVICE. EDWARD H. HEBBEN, Oakland, Calif. Filed Sept. 26, 1916. Serial No. 122,208. 7 Claims. (Cl. 177—327.)



2. In combination with a vibratory direction-indicating device, solenoids and cores operatively connected to said indicating device to move the same, when the cores are attracted, in opposite directions respectively, said operative connections permitting the device to move independently of said cores.

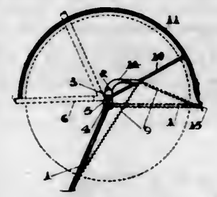
1,374,451. CLOTHESPIN-CONTAINER. ISAAC I. HEYMAN, Irvington, N. J. Filed May 28, 1920. Serial No. 385,000. 1 Claim. (Cl. 68—11.)



A clothes pin holder comprising a box and a trough arranged at the lower end of the latter and extending forwardly beyond it, said box and trough being made up of two pieces of sheet material, one piece of which is in the form of a channel which constitutes the front and side walls of the box, the front wall terminating at a point above the lower edges of the side walls and the last named walls carrying integral spaced extensions disposed in alinement therewith and forming the side walls of said trough, said other piece of material being L-shaped and forming the back wall and bottom of the box and also forming the bottom of the trough, the bottom of said trough being bifurcated at its free end to form a finger inserting opening, the front end of said trough bottom being bent up into substantial parallelism with the rear wall of the box and terminating in a substantially horizontal plane with the lower edge of the front wall of the box, and the upper end of said back wall of the box having a supporting hook.

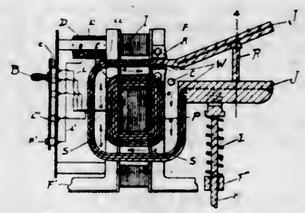
1,374,452. STAND FOR BICYCLES. JOHN HUTCHINSON, Toronto, Ontario, Canada. Filed Dec. 16, 1919. Serial No. 345,201. 2 Claims. (Cl. 208—75.)

1. The combination with a bicycle, of stand connections secured to the rear of the bicycle; a U-shaped stand having its ends pivotally secured to said connections; an arm extending upwardly and rearwardly from one of said connections; a coil spring secured at one end to said arm and at its other end to said stand adjacent to the free end;



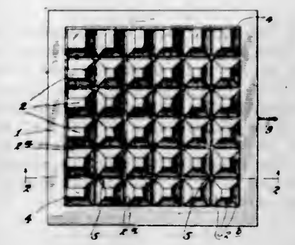
and a spring catch suitably supported from the frame of the bicycle adapted to releasably engage the middle of the stand to hold the latter in the operative position.

1,374,453. ELECTRIC RIVET-HEATER. FREDERICK T. KITT, Seattle, Wash., assignor, by mesne assignments, to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 26, 1919. Serial No. 319,983. 4 Claims. (Cl. 219—11.)



1. In an electric rivet heater, the combination of a magnetic core, a primary winding upon the same, a secondary in inductive relation thereto, relatively movable terminal jaws connected to said secondary, the opposing faces of the front ends of said jaws being farther separated than the inner portions thereof, and means for varying the distance between said jaws.

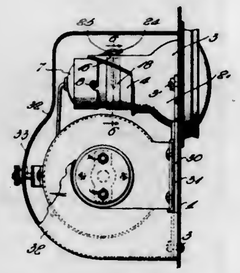
1,374,454. APPARATUS FOR ASSEMBLING CELLULAR FORMS. PETER KUCERA, South Connellsville, Pa., assignor to Capstan Glass Company, South Connellsville, Pa., a Corporation of Delaware. Filed May 21, 1920. Serial No. 383,140. 9 Claims. (Cl. 93—39.)



1. A device for assembling cellular partition forms comprising the combination of a support, spacing members associated therewith to sustain a plurality of partition strips in parallel relationship, said spacing members in-

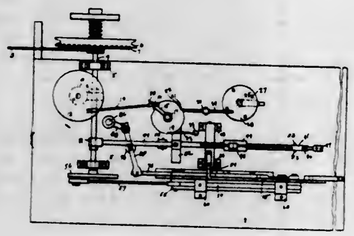
cluding supporting portions disposed for coöperation with partition strips extending in angular relationship, said spacing members including guide portions arranged to direct partition strips into association with the supporting portions.

1,374,455. TROUBLE-HUNTER. DAVID C. LAMB, Detroit, Mich. Filed Jan. 7, 1920. Serial No. 349,923. 11 Claims. (Cl. 240—7.)



6. In a trouble hunter and dash lamp in combination, a flanged socket piece adapted to be inserted in the dash, a lamp holder adapted to be thrust into the socket piece, a lamp, a central core for said holder said lamp being mounted on said core, contacting means on said holder and core for turning on and off the lamp and means extending from said core to said socket piece whereby said core may be held from turning while the holder is turned.

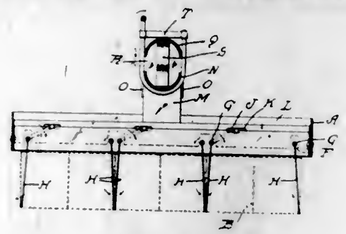
1,374,456. WEIGHING-MACHINE. THOMAS B. LAMBERT, Portland, Oreg. Filed May 24, 1920. Serial No. 383,785. 6 Claims. (Cl. 83—92.)



1. In a feed stop controlling mechanism, the combination of a feed stop controlling disk mounted on a vertical shaft and having on its upper surface a plurality of concentric pins, a feed controlling lever pivotally mounted along side and resting on said disk between said stop pins, an index plate mounted on a vertical shaft and above the other end of said lever, said index plate having a plurality of cam lobes on its under side adapted to depress said lever and raise its opposite end over said stop pins permitting only one pin to pass.

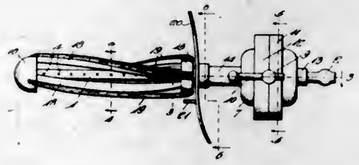
1,374,457. EGG-HANDLING DEVICE. JOSIAH WALLACE LANG, Floris, Iowa. Filed May 18, 1920. Serial No. 382,219. 5 Claims. (Cl. 294—87.)

1. A device for handling eggs, consisting of a frame, a series of rods having an oscillating connection with said frame, a series of egg grasping members carried by said rods, and means for oscillating said rods to engage and release the said grasping members consisting of a pair of



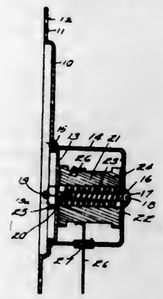
vertically moving plates, a two part grasping portion for moving said plates, and a locking device to secure said two part grasping portion.

1,374,458. VAGINAL WASHER. THEODORE HUBERT LARSON, Oshkosh, Wis. Filed Aug. 11, 1919. Serial No. 316,675. 11 Claims. (Cl. 128—242.)



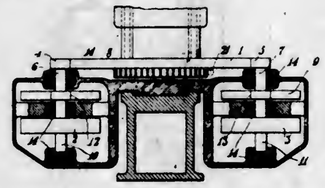
1. A vaginal washer comprising a stationary bearing, wiping means rotatably mounted in said bearing, means to feed and spray a cleansing liquid to said wiping means, and means to rotate said wiping means with respect to said means for feeding the cleansing liquid.

1,374,459. HANGER FOR TOWELS AND THE LIKE. CARROLL LICHTY, Des Moines, Iowa. Filed Oct. 9, 1920. Serial No. 415,863. 1 Claim. (Cl. 248—9.)



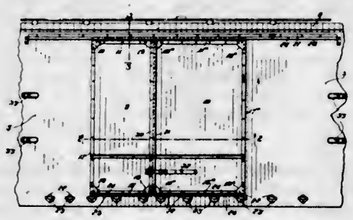
In a hanger for towels or the like, a support having a raised portion in its surface, a cover casing member of substantially the same size as said raised portion adapted to extend over said raised portion, a shaft having one of its ends journaled in said cover casing and its other end in said support, said cover casing being provided with an opening, a spool mounted on said shaft and on the inside of said cover casing, a spring on said shaft having one end fixed to said spool and the other end to said support, a cord fixed to said spool adapted to extend through said opening, a stop member on the extended end of said cord for preventing it from passing through said opening, the parts being so arranged that the tension of the spring may be varied by rotating the cover casing relative to the support.

1,374,460. GEAR-CUTTING MACHINE. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungstrom Angturbin, Stockholm, Sweden, a Corporation. Filed May 8, 1920. Serial No. 379,807. 2 Claims. (Cl. 90—1.)



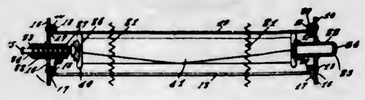
1. In a gear cutting machine, the combination with the operating mechanism and a gyrating mass, of a connection between the operating mechanism and said mass consisting of a friction gearing adapted to transmit an increased speed to said connection and mass.

1,374,461. CAR-DOOR. EDWARD A. MAYHEW, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1919. Serial No. 295,962. 5 Claims. (Cl. 20—22.)



1. In combination with a railway box car having a door opening and a pair of sliding door sections to close said opening, of a combined weather strip and guiding member fastened to the meeting edge of one of said sections, having its free edge projecting toward the other section and bent outwardly to form a guide for the meeting edge of the other section, so as to insure proper alinement of said sections, and a baffle member fastened to said second mentioned section adjacent its meeting edge, and adapted in coöperation with the weather strip and guiding member to prevent rain and the like from entering the car between the meeting edges of the door sections.

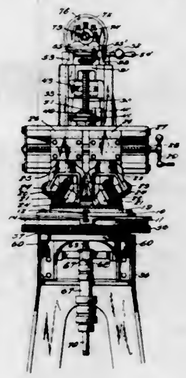
1,374,462. PIANO-PLAYER-ROLL CONTAINER. FRED W. MILLER, Kenmore, N. Y., assignor to Climax Cabinet Company Inc., Buffalo, N. Y. Filed Apr. 17, 1919. Serial No. 290,801. 2 Claims. (Cl. 211—16.)



1. A device of the class described comprising a frame; a shaft journaled therein; wheels on the shaft and having peripheral notches; endless conveyers; tubular supports mounted intermediate their ends in the conveyers, the outer ends of the supports being received in the notches of the wheels to form a driving connection between the wheels and the conveyers, the inner end of one support constituting means for engaging one end of a music roll; and a plunger mounted in the other support and constituting means for engaging the opposite end of a music roll, the tubular construction of the supports permitting the plunger to be mounted in either support at the will of an operator.

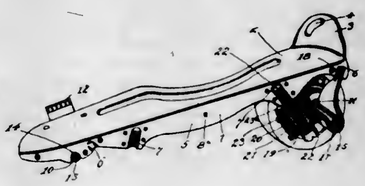
2. A device of the class described comprising a frame; a shaft therein; endless conveyers coöperating with the shaft and having music roll supporting means; connections having their ends pivoted eccentrically to the conveyers, whereby the connections may be swung toward and away from each other, transversely, thereby to accommodate music rolls of different diameters; and retractile members uniting the connections and constituting retainers for the free ends of the sheets of the music rolls.

1,374,463. MACHINE FOR THE MANUFACTURE OF ASBESTOS GASKETS. EDWARD NALL, deceased, by Edith Alice Nall, executrix, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Feb. 15, 1917, Serial No. 148,830. Divided and this application filed July 31, 1918. Serial No. 247,698. 27 Claims. (Cl. 18—10.)



1. A machine for producing a packing strip comprising, rotatable shaping elements one of which is adapted to impart rotative movement to the other elements through engagement therewith, the elements having their axes arranged in relative angular relation, means for effecting engagement of the last element with the first element, and means for adjusting the last elements laterally of the first element.

1,374,464. ROLLER-SKATE. FREDERIC W. NALL, Cincinnati, Ohio. Filed June 9, 1919. Serial No. 302,709. 3 Claims. (Cl. 46—51.)



1. In a roller skate, a foot plate therefor comprising two longitudinal sections, extending from heel to toe, having depending flanges along their meeting edges extending their full length, said flanges being united together in abutment with each other along the median line of the foot plate, to complete the foot plate and provide a truss therefor.

1,374,465. SOIL-PULVERIZER. GEORGE W. OAKES, Roseland, N. J. Filed May 17, 1920. Serial No. 381,836. 3 Claims. (Cl. 55—12.)



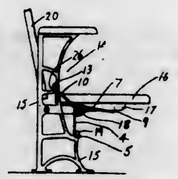
1. In a harrow, a pair of side bars, a series of cross bars secured to the side bars, each crossbar having a series of teeth, a set of rollers one mounted between each of the crossbars, each roller being provided with an adjustable bearing whereby it is independently and rigidly secured directly to the crossbar.

1,374,466. CIGARETTE. GEORGE PAPPANIKOLAOU, Petersburg, Va. Filed Dec. 13, 1919. Serial No. 344,539. 3 Claims. (Cl. 131—52.)



3. A cigarette having a flexible mouth piece inclosing a cylindrical piece of sponge which is exposed at one end of the cigarette and provides a resilient bit for the user's lips.

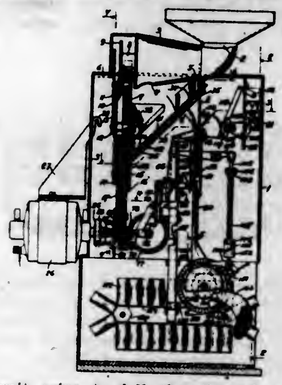
1,374,467. SEAT-RAISING ATTACHMENT FOR THEATER-CHAIRS OR THE LIKE. GEORGE IRWIN PARK, Burlington, Ontario, Canada, assignor of one-third to George Swanwick and one-third to Charles Montag, Hamilton, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,129. 5 Claims. (Cl. 155—86.)



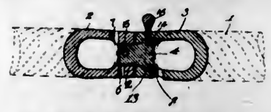
1. In a row of theater chairs, or the like, the combination with the hinged seats thereof and the frames of the chairs, of a spring attachment mounted upon the frame between adjacent chairs, said attachment coacting between the seats of said adjacent chairs and the frame for normally maintaining said seats in the raised position.

1,374,468. COIN-HANDLING APPARATUS. EDWARD B. PAUL, Lancaster, Pa., assignor to Lancaster Automatic Machine Company, Lancaster, Pa., a Corporation of Delaware. Original application filed Nov. 16, 1918, Serial No. 262,767. Divided and this application filed Mar. 28, 1919. Serial No. 285,928. 6 Claims. (Cl. 133—3.)

3. Apparatus for feeding coins to a coin handling mechanism, comprising a receptacle having a fixed vertical wall and an inclined circular rotary bottom provided with a plurality of coin receiving pockets, the outer portions of which lie adjacent to the fixed wall, an inclined fixed annular bottom portion upon which said rotatable bottom is supported, said fixed bottom portion being provided with an aperture in its upper part, and means for moving the said rotatable bottom to bring the coin-receiving pockets therein successively into register with the aperture to permit coins to fall therethrough and be discharged from the feeding apparatus.

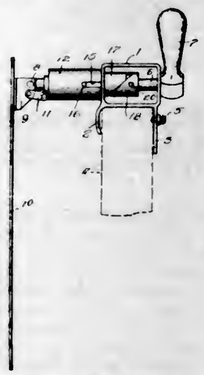


1,374,469. ROPE-COUPLING. CHARLES A. PETTIT, St. Louis, Mo., assignor to C. W. Hunt Company, Inc., West New Brighton, N. Y., a Corporation of New York. Filed May 2, 1919. Serial No. 294,198. 4 Claims. (Cl. 24—123.)



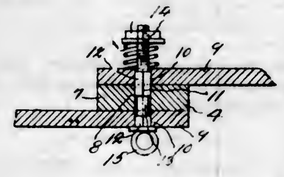
2. A rope coupling, including a pair of links, one of said links being formed with a screw-threaded opening, the screw threads thereof extending in a spiral in opposition to the twist of the rope adapted to be engaged by said links, a plug extending between said links and being formed with a shank provided with screw threads adapted to engage said screw-threaded opening, the opposite end of said plug engaging the second of said links and being freely rotatable with respect thereto, said plug being adapted to be held against rotation with respect to either of said links and being capable of drawing one of said links toward the other of said links and into firm engagement therewith, whereby to prevent movement of one with respect to the other.

1,374,470. DIRECTION-INDICATOR FOR AUTOMOBILES. CARL B. QUARFOOT, Chicago, Ill. Filed June 30, 1920. Serial No. 392,989. 9 Claims. (Cl. 116—52.)



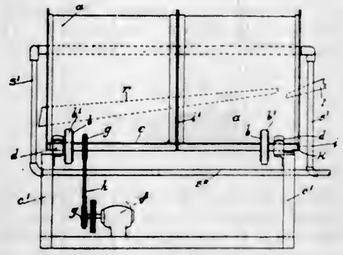
1. A direction indicator for a vehicle, comprising a supporting member, a horizontal shaft mounted thereon, and extending transversely of the vehicle, means operable from inside the vehicle for rotating the shaft, an indicating arm pivoted to the outer end of the shaft and having a substantially flat indicating portion normally depending in a plane substantially parallel to the side of the vehicle, and a pair of cams respectively fast upon the shaft and the supporting member, the said cams coöperating for causing a quarter rotation of the shaft to swing the indicating arm so as to bring the said indicating portion into a vertical plane transverse of the vehicle.

1,374,471. TRAFFIC-SIGNAL. JOHN REYNARD, Omaha, Nebr. Filed July 25, 1919, Serial No. 313,338. Renewed Feb. 21, 1921. Serial No. 446,863. 1 Claim. (Cl. 40—145.)



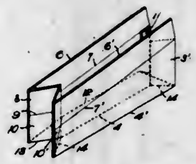
A traffic signal comprising a base, a standard, the lower end of which is rotatably mounted in the base and its upper end being provided with a horizontally disposed square opening, a pair of arms, each provided with a square opening near one end thereof and adapted to aline with said square opening in the standard, a bolt slidably mounted in the square openings in the arms and standard, said bolt being provided with relatively spaced squared portions for normally locking the said standard and the arms, reduced cylindrical portions on said bolt adapted to be moved into registration with said squared openings in the arms when it is desired to change the position of the arms and an enlarged hub integral with the bolt to limit its inward movement and terminating in a ring portion for permitting the bolt to be withdrawn to an inoperative position and a spring for holding the bolt in a normally locked position.

1,374,472. APPARATUS FOR CLASSIFYING AND CONCENTRATING MINERALS, ORES, AND THE LIKE, ALSO APPLICABLE TO THE REQUIREMENTS OF MINERAL-DREDGING. WILLIAM WHITEHEAD RICHARDSON, London, England. Filed July 7, 1919. Serial No. 309,164. 14 Claims. (Cl. 83—86.)



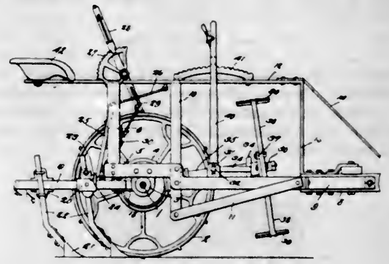
1. Apparatus for classifying and concentrating mineral ores comprising at least one trommel, riffle plates on the interior surface of said trommel, said riffle plates having a series of graduated ridges and grooves on their surfaces, arranged longitudinally of the trommel, the width over the ridges being greater than the width over the grooves, while the width and depth of the grooves increase from the forward moving edge of each riffle plate.

1,374,473. COLLAPSIBLE BOX. CHARLES A. SCOTCHER, Braintree Highlands, Mass., assignor to The A. O. Crawford Co., Inc., South Weymouth, Mass., a Corporation of Maine. Filed Jan. 22, 1920. Serial No. 353,295. 1 Claim. (Cl. 229—41.)



A collapsible box formed from a single integral sheet of flexible material, and consisting of a base, rectangular in outline and adapted to fold along a longitudinal, median line, and upstanding side and end walls, each of said side walls having one-half a complete cover integral therewith, and extending from the upper edge thereof, and one of the end walls having a prolongation constituting a partial cover, all of said cover portions being adapted when the box is filled to be folded inwardly upon the contents thereof, each of said end walls and including the cover extension of one end wall, being adapted to fold along a median line constituting a continuation of the said median line of the base, whereby the box may be collapsed along said median line to bring the cover portions extending from the sides into face contact with each other, but having the end cover extension folded upon itself between them, thus providing a collapsed box and cover of minimum thickness for packing purposes.

1,374,474. COTTON-CHOPPER. BRUNO SCHWAB, RICHARD SCHNEIDER, and HAVER HOEGENAUER, San Antonio, Tex. Filed June 21, 1919. Serial No. 305,799. 1 Claim. (Cl. 97—46.)

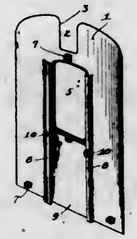


In a cotton chopping machine the combination with a frame and supporting wheels, of a housing interposed between the wheels and mounted for rotation, a sleeve extending radially from the housing, axles connected to the respective wheels and extending into the housing, a differential connecting the axles, a shaft geared to the differential and journaled within the sleeve, a chopping hoe connected to and revoluble with the shaft, means under the control of the operator and engaging the sleeve for swinging said sleeve upwardly or downwardly to a desired elevation and rotating the housing on the axles, said means operating to hold the sleeve and housing against rotation with the axles.

1,374,475. COMBINED MUD-GUARD AND MOTOR-COOLER. AMBROSE J. SHAUGHNESSY, Islip, N. Y. Filed May 20, 1920. Serial No. 382,850. 7 Claims. (Cl. 208—150.)

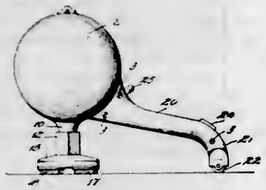
1. A guard for motorcycles comprising a plate, the plate consisting of a single piece of sheet metal of suf-

ficient length and breadth to protect the legs of the operator, said plate being concaved forwardly and provided



with an opening, said opening being entirely bounded by the plate and so located as to direct air on the motor.

1,374,476. ROTARY SURFACE-BRUSH. MARY C. SHINN, Seattle, Wash. Filed Aug. 7, 1919. Serial No. 315,990. 4 Claims. (Cl. 15—14.)



3. In a rotary brush device, a motor provided with a housing, an extension formed on the housing and projecting therefrom to form a handle, a supporting roller at the outer end of the extension, a brush carrier provided with rotary brushes and means interconnecting said motor and brushes to rotate the brushes.

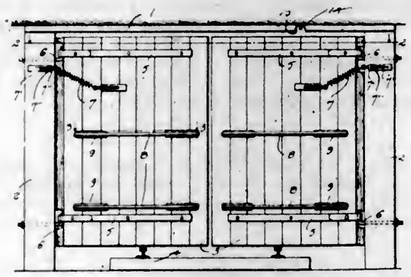
1,374,477. STORAGE-BATTERY PLATE OR ELECTRODE. EDWARD WANTON SMITH, Philadelphia, and CHARLES D. GALLOWAY and CORNELIUS AMBAUSTER, Roslyn, Pa. Filed Sept. 4, 1918. Serial No. 252,564. 1 Claim. (Cl. 204—29.)



In a storage battery plate or electrode, including metal rods surrounded with active material or material adapted to become active inclosed in ribbed and perforated insulating tubes or envelops, and in combination therewith an end construction consisting of imperforate and ribless cuffs at the ends of the tubes and a poured connecting bar fitting inequalities in the lengths of the tubes and fitting inequalities in the ends of the active material or material adapted to become active and contacting therewith, and said bar merging into the ends of said rods, substantially as described.

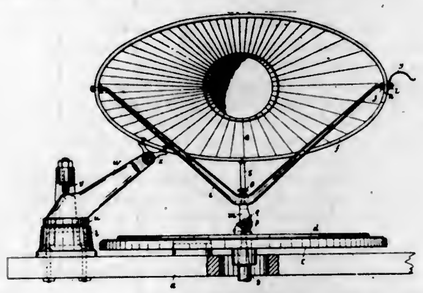
1,374,478. SELF-OPERATING MINE-DOOR FOR LOCOMOTIVES. PATRICK J. STANTON, Lundale, W. Va. Filed Aug. 18, 1920. Serial No. 404,441. 4 Claims. (Cl. 246—304.)

1. A mine door comprising posts arranged in the doorway of a mine, doors hinged to said posts and adapted to swing in opposite directions thereon, flexible connections between the hinged edges of said doors and said posts, means to resiliently retain said doors in closed position,



and guard members mounted on opposite sides of said doors for engagement by a locomotive to force said doors to swing to open position.

1,374,479. PHONOGRAPH-REPRODUCER. GASTON STROBINO, Paterson, N. J. Filed Mar. 5, 1920. Serial No. 363,367. 3 Claims. (Cl. 274—25.)



1. In combination, a reproducer including a vibratory membrane member and a forked-shaped free stylus device rigidly secured as to the arms of its fork and only at the extremities of said arms to said member in the line of substantially its greatest circumference, and means to support the reproducer in operative relation to a record.

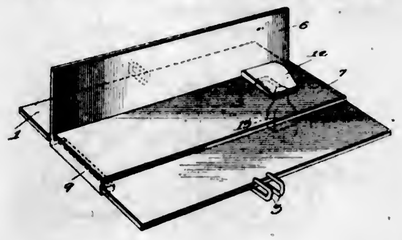
1,374,480. VULCANIZED BOOT AND SHOE. LYMAN A. TRULL, Williamsport, Pa., assignor to Lycoming Rubber Company, a Corporation of Pennsylvania. Filed Nov. 19, 1919. Serial No. 339,021. 9 Claims. (Cl. 36—14.)



1. A shoe comprising an insole, an upper having its lower margin turned over upon the insole, a vulcanized outer sole, and a vulcanized welt strip intermediate the insole and outsole, the said welt strip being secured to the insole by metallic fastening devices extending through the said margin of the upper.

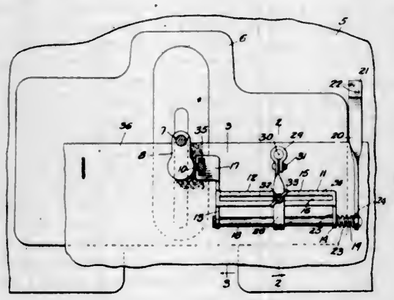
1,374,481. GROUSER. STANLEY MONTE WADE, Oakland, Calif. Filed May 4, 1920. Serial No. 378,741. 2 Claims. (Cl. 301—44.)

2. In combination, a grouser and an element to which the grouser is to be attached, said grouser having at one end a hook and at the other a pin mounted to slide laterally with respect thereto, the element having a slot through which the pin is adapted to pass, when the hook



is engaged with the element, said pin having a head which will pass through the slot when in register therewith and will extend transversely of the slot when the hook is engaged with the element.

1,374,482. MARKING DEVICE. IKE WISNIPOLSKY, Brooklyn, N. Y. Filed Nov. 29, 1919. Serial No. 341,396. 2 Claims. (Cl. 112—75.)



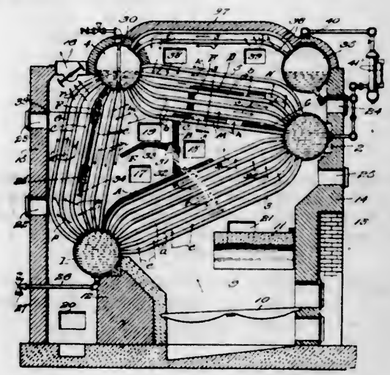
1. A marking device of the class described comprising a shaft, means for supporting said shaft, a main frame composed of sheet metal fashioned to form end members joined by a longitudinal member having an elongated aperture, said shaft passing through apertures in said end members for rotatably supporting said main frame, a supplemental frame mounted on said shaft and adjustable longitudinally thereof and of the main frame, means passed through said supplemental frame and the longitudinal slot in the main frame for securing said supplemental frame in connection with the main frame in different positions of adjustment, tensional means for holding the main and supplemental frames normally in a raised position, and means on the supplemental frame for detachably and adjustably securing a marking element in connection therewith.

1,374,483. PHONOGRAPH ATTACHMENT. JAMES J. ANKER, Verona, Pa. Filed Apr. 3, 1918. Serial No. 226,536. 1 Claim. (Cl. 274—1.)



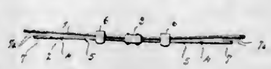
A reproducer head lifting device comprising a spider having a freely rotatable lifting button thereon centrally positioned with reference to the reproducer head for the purpose of insuring smooth operation of the latter when revolved about a pivotal point on the tone arm of a phonograph.

1,374,484. BOILER. JOHN P. BADENHAUSEN, Philadelphia, Pa. Filed Mar. 18, 1916. Serial No. 85,124. 5 Claims. (Cl. 122—297.)



1. A water tube boiler having a transverse mud drum, a transverse water drum, a transverse steam-and-water drum, a steam receiving drum, tubes connecting said mud drum with the water drum, tubes connecting said water drum with the steam-and-water drum, tubes connecting the steam-and-water drum with said mud drum, a plurality of steam conveying and superheating tubes connecting said steam-and-water drum with the receiving drum, and baffle means including a baffle extending forwardly over the top tubes of said first mentioned tubes, a baffle extending upwardly and forwardly therefrom into said second mentioned tubes, said last mentioned baffle provided with a rearwardly extending baffle, and a baffle in said third mentioned tubes extending from said steam-and-water drum downwardly toward said mud drum, whereby the gases of combustion pass downwardly along the forward part of said third mentioned tubes, transversely of the latter at the lower end thereof, upwardly along the rear part of said tubes and with a cross flow transversely of the upper part of the rear tubes thereof, said baffles arranged to provide therebetween contracted gas passages for effecting increased efficiency of operation and to change the course of the flow of the hot gases for the intimate contact of said hot gases with the tubes of said boiler.

1,374,485. SOFT-COLLAR HOLDER. WILLIAM BERECKY and GEORGE MUNTEANU, New York, N. Y. Filed Oct. 14, 1920. Serial No. 416,933. 2 Claims. (Cl. 24—81.)

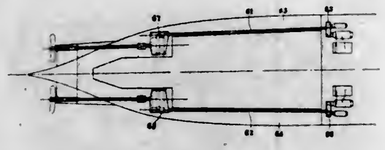


1. A device of the class described comprising a pair of resilient members, one of said members being of greater length than the other, a clamp rigidly joining said members at their centers, serrations on one of said members, a slidable sleeve on each side of said clamp, serrations on each sleeve adapted to engage said first-named serrations.

1,374,486. SHIP-PROPULSION INSTALLATIONS. DAVID CHRISTOPHER BLACK, Alloa, Scotland, assignor to Parsons Marine Steam Turbine Company Limited, Wallsend-on-Tyne, England. Filed Sept. 15, 1919. Serial No. 323,910. 1 Claim. (Cl. 115—37.)

In a marine propulsion installation, a plurality of propeller shafts, driving means located in an engine room, a shaft intermediate between said driving means and each of said propeller shafts, gearing in proximity to said driving means and connecting it to each intermediate shaft,

gearing widely spaced from the engine room and aft the hold connecting each intermediate shaft with the corresponding propeller shaft, the axial displacement of each



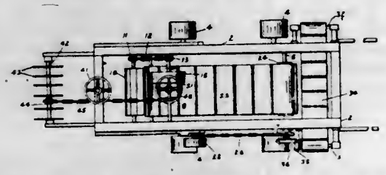
intermediate shaft with respect to the corresponding propeller shaft necessitated by the gearing being toward the side of the vessel in order to provide greater unbroken hold space.

1,374,487. AIRSHIP. DAVID FRANK BROWN, Boundbrook, N. J. Filed June 22, 1920. Serial No. 390,823. 5 Claims. (Cl. 244—15.)



1. In an airship a plurality of radially extending planes, a motor propelled propeller movable with each of the planes, said propellers being driven simultaneously to swing the planes about a common center, and means for shifting the propellers relative to the planes to vary the speed of rotation of the planes about said center and to propel the machine forward bodily.

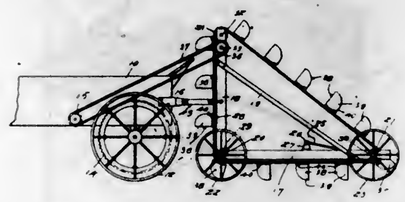
1,374,488. DITCHING-MACHINE. E ANDERS CHATTSTROM, Davenport, Iowa. Filed May 29, 1919. Serial No. 300,750. 1 Claim. (Cl. 37—29.)



A device of the class described, comprising a main portable frame; a pair of auxiliary frames supported in said main frame so as to be capable of vertical adjustment therein, independently of each other, one of said auxiliary frames being in advance of the other; an excavating cylinder carried by the rear one of said frames, provided with a plurality of transverse blades; a series of spaced-apart serrated disks rotatably supported by the forward frame; and conveying mechanism adapted to receive material from said excavating cylinder and discharge it at the side of the machine.

1,374,489. STONE-PICKER. GEORGE CHERBA, Jeddo, Pa. Filed Dec. 27, 1919. Serial No. 347,674. 4 Claims. (Cl. 55—17.)

2. The combination with a vehicle including a body, and rear supporting wheels for the body, of a stone picker comprising a frame positioned to the rear of the vehicle body, an endless stone picking and conveying element movably associated with the frame for removing stones from the ground and conveying the stones upwardly and depositing the same in the vehicle body, a driving shaft for the picking element rotatably carried by said frame, sprockets carried by the driving shaft, idler sprockets carried by the vehicle body, sprocket chains passing about the sprocket wheels of the driving shaft and the vehicle body, and driving sprockets carried by the vehicle wheels and engaging the sprocket chains.



3. A stone picker comprising a frame having longitudinally extending side bars, vertically extending standards positioned at the forward ends of the side bars, front and rear axles carried by the side bars, supporting arms extending upwardly intermediate the length of the side bars, a cross bar carried by the supporting arms, bearing arms carried by the cross bar and extending rearwardly and terminating in bearings engaging the rear axle, a driven shaft rotatably supported by said standards, an endless picking and conveying element extending about the driven shaft and axles, and a driving shaft carried by the standards and having connection with the driven shaft for imparting rotary movement to the same.

4. A stone picker comprising a frame having side bars, vertical standards carried by the side bars, a driven shaft carried by the standards, axles carried by the forward and rear end portions of the side bars, sprocket wheels positioned upon the driven shaft and axles, an endless picking element having side chains passing about the sprocket wheels of the driven shaft and axles, and buckets positioned upon the side chains and having prongs positioned in spaced relation for engaging stones in a field as the buckets move rearwardly beneath the frame and lifting the stones from the field when the buckets reach the rear end of the frame and move upwardly.

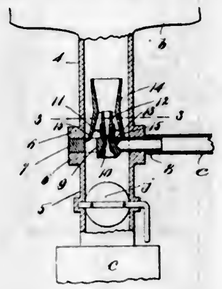
1,374,490. CHAMBER-HEAD. CHARLES S. CHRISMAN, West Chester, Pa. Filed May 1, 1917. Serial No. 165,720. 1 Claim. (Cl. 72—38.)



An internally conical head for a chamber comprising bricks of which the two opposite sides taper in the direction of the length of the brick and in the direction of the thickness of the brick and of which the top and bottom and the two ends are parallel respectively and said bricks having one of their end portions offset in respect to the other of their end portions, substantially as described.

1,374,491. SUCTION-AUGMENTING DEVICE FOR VACUUM FEEDING SYSTEMS. JOSEPH C. COULOMBE, Dracut, Mass. Filed Dec. 22, 1919. Serial No. 346,719. 5 Claims. (Cl. 158—36.)

1. The combination with an internal combustion engine, its gas intake line and carbureter, and a liquid fuel feeding system of the kind having a vacuum chamber in which suction is induced by the operation of the engine, of means for augmenting the suction in said vacuum chamber comprising a constricted tube in the intake line to the engine, filling only part of the transverse space in the intake

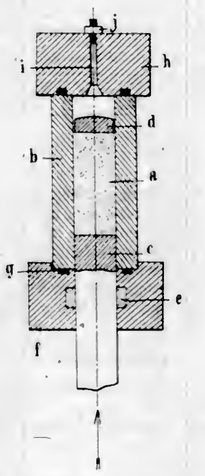


line to permit the passage of gas outside of the tube, and a duct connecting the vacuum chamber to the tube in the region of its constricted part.

1,374,492. FUSIBLE ADHERENT AND METHOD OF MAKING THE SAME. FRANK H. DAVIS, New York, N. Y., assignor of one-half to Francis R. Coughlin, New York, N. Y. Filed Feb. 4, 1919. Serial No. 274,856. 7 Claims. (Cl. 87—17.)

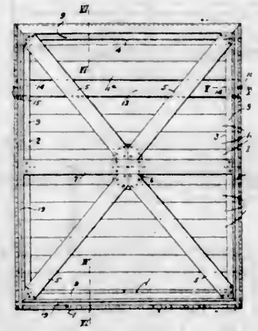
7. A fusible adherent of the class described derived from shellac or equivalent resinous product by boiling said product with ammonium hydroxid and sodium chlorid solution until a precipitate is formed, free from greasy or fatty substances and having fusible properties suitable for transferring gold leaf from its backing to the object upon which it is to be attached without discoloration of said gold leaf.

1,374,493. MANUFACTURE OF REFRACTORY AND INSULATING PRODUCTS. GEORGES LOUIS DIMITRI and JULES EDOUARD DELAUNAY, Paris, France. Filed June 21, 1920. Serial No. 390,581. 6 Claims. (Cl. 25—156.)



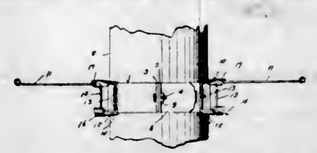
1. A process of manufacturing refractory and insulating products, comprising mixing together ceramic materials in a powdered slate, and molding the powdered mixture under pressure in a vacuum into the form of articles of definite shape; substantially as described.

1,374,494. CAR-DOOR. IRA S. DOWNING, Indianapolis, Ind., assignor to Camel Company, a Corporation of Maine. Filed July 10, 1919. Serial No. 309,978. 6 Claims. (Cl. 20—21.)



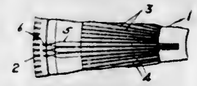
3. The combination with a sliding car door having slats removable through an opening in the vertical edge of the frame, of a detachable door stop projecting from the side of the car and secured thereto adapted to cover the opening in the frame when the door is in closed position.

1,374,495. CLOTHES-RACK ATTACHMENT FOR BOILERS. EMIL E. ETAN, Bozeman, Mont. Filed June 16, 1920. Serial No. 389,389. 1 Claim. (Cl. 126—341.)



A clothes rack attachment comprising a band secured about a boiler, a plurality of clips adjustably secured to the band and each consisting of a single length of metal bent into substantially U-shape formation having its bight portion disposed against the band and having its arms slotted and bent upon themselves and parallel with the bight portion to form ears adapted to engage the inner face of the band, and clothes supporting arms extending through the slots.

1,374,496. WELT ATTACHMENT FOR KNITTING-MACHINES. EMIL J. FRANCK, Philadelphia, Pa. Filed Feb. 18, 1919. Serial No. 277,847. 1 Claim. (Cl. 66—32.)

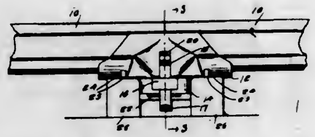


A welt attachment for knitting machines comprising the combination of a grooved dial or carrier, and transferrers each consisting of two parts whereof each is provided with a hook and with an off-set shank, and the hooks of each of the parts of a transferrer arranged face to face and the shanks of each of the parts of a transferrer arranged in different and adjoining grooves whereby space is provided between the parts of the transferrers all the way to the dial, substantially as described.

1,374,497. ANGLE-BAR FOR RAIL-JOINTS. WALTER E. GAUNTT, Pine Hill, Ky. Filed Apr. 24, 1920. Serial No. 376,339. 2 Claims. (Cl. 238—204.)

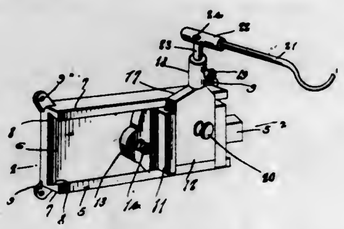
1. A rail joint comprising complemental sections to grip the rails, one of the sections having a base on which the

rails rest and an enlargement depending from the same and having a transverse slot therethrough, said enlargement having a recess, said recess extending vertically and



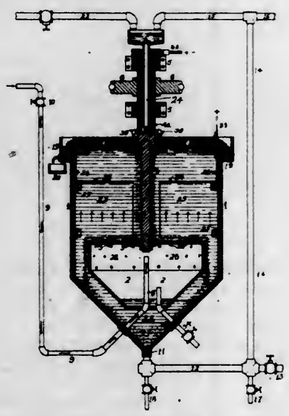
also completely through the section, the other section having a tongue disposed in the slot provided with an eye in registry with the recess, and fastening means coöperating with the recess and eye.

1,374,498. ADJUSTABLE SHADE-BRACKET. JOHN HENRY GILBERT, Plant City, Fla., assignor of one-half to Henry A. Driggers, Mulberry, Fla. Filed Oct. 13, 1917, Serial No. 196,465. Renewed Dec. 3, 1920. Serial No. 428,149. 1 Claim. (Cl. 156—24.)



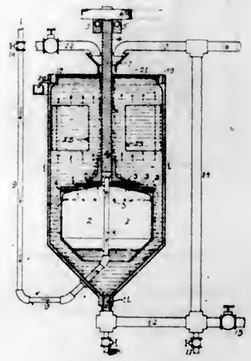
A shade bracket comprising an attaching plate, a shade roller supporting plate mounted upon the attaching plate for horizontal adjustment with relation thereto, a third plate mounted upon said supporting plate for vertical adjustment with relation thereto, a curtain pole supporting rod, and means connecting said rod to said third plate for horizontal adjustment with relation thereto.

1,374,499. FLOTATION APPARATUS. WILLIAM E. GREENAWALT, Denver, Colo. Filed Dec. 27, 1915. Serial No. 68,718. 2 Claims. (Cl. 261—93.)



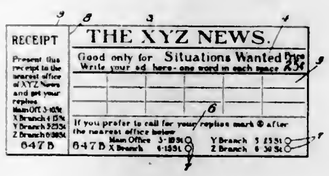
1. In apparatus for treating liquids with gases, a tank adapted to contain the liquid, a rotary member journaled on a substantially vertical axis submerged in the liquid, stationary members in proximity to the rotary member, and means for passing an electric current from the rotary member to the stationary members.

1,374,500. APPARATUS FOR TREATING LIQUIDS WITH GASES. WILLIAM E. GREENAWALT, Denver, Colo. Filed Oct. 30, 1915. Serial No. 58,748. Renewed Feb. 12, 1920. Serial No. 358,130. 20 Claims. (Cl. 261—93.)



1. In apparatus for treating liquids with gases, a tank adapted to contain a liquid, a rotary member, having gas passages arranged with outlets at variable distances from the center and extending from its central portion toward its periphery, suspended within the tank and submerged in the liquid, and means arranged for introducing a gas into the central portion of the rotary member whereby liquid is displaced from the rotary member and gas is forced through the said passages.

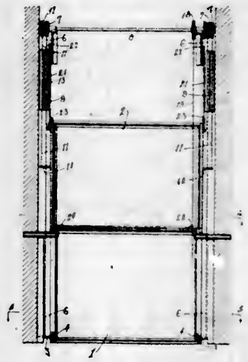
1,374,501. ADVERTISEMENT DEVICE. CARLISLE N. GREIG, Chicago, Ill. Filed Apr. 22, 1918. Serial No. 229,904. 9 Claims. (Cl. 283—56.)



1. As an article of manufacture, a card for conveying advertising copy to an advertising medium having an indicated valuation corresponding to the charge for publishing such copy and bearing an indication of the advertisement classification to which it pertains, an appropriately imilcated space on which said advertising copy is to be written and an indication of the number of words permissible in said copy.
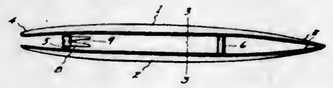
1,374,502. MECHANISM FOR OPERATING SECTIONAL DOORS. EDWARD P. HAINES, Philadelphia, Pa., assignor to Patent Appliance Company, a Corporation of New Jersey. Filed May 3, 1919. Serial No. 294,621. 10 Claims. (Cl. 268—1.)

1. The combination with door sections, of means for raising one of said door sections and thereafter another section in unison with said one section, structure tilting said door sections into inclined position, and means for counterbalancing said door sections throughout their entire range of movement comprising counter-weighting means of constant magnitude, and means connecting said counterweighting means to one of said sections at a point between



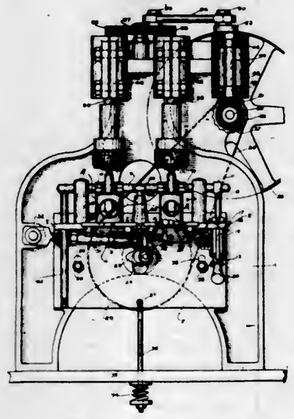
its top and bottom and adjacent the center of gravity of the door sections when in position in which they move in unison.

1,374,503. SEAMAN'S NET-NEEDLE. WILLIAM HENDRY, Tacoma, Wash. Filed May 29, 1920. Serial No. 385,277. 2 Claims. (Cl. 66—10.)



1. A needle of the character described comprising two elongated, opposite face plates, posts intermediate said plates rigidly spacing the same apart in substantial parallel relation, said plates being tapered to a point and drawn together at their forward ends, and spaced apart at their rearward ends and a thread holding plate fixed to one of said posts having a tapered slot therein for holding one end of a thread that may be wound about said posts.

1,374,504. MACHINE FOR GRINDING VALVES. GEORGE CLIFFORD HILL and FRANK COOPER, Seattle, Wash. Filed Feb. 14, 1920. Serial No. 358,610. 6 Claims. (Cl. 51—29.)



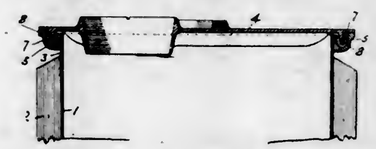
1. In a machine for grinding portable valves, means for holding the valve seat rigid and means for releasing the holding means at predetermined periods, with means for holding the valve portion against the seat with resilient pressure, and means for rotating the valve in alternate directions for predetermined limits of movement.

1,374,505. METHOD OF MAKING MOTOR-VEHICLE TIRES. ERNEST HOPKINSON, New York, N. Y. Filed Jan. 4, 1917. Serial No. 140,508. 29 Claims. (Cl. 154—14.)



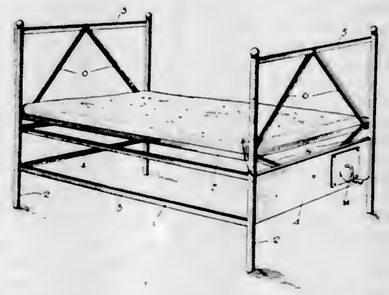
19. In the method of making a tire casing for motor vehicles, the steps of wrapping a plurality of separate rubberized fabric plies around a drum to form a pulley band, folding over the edges of the pulley band, forming the pulley band into tire shape by inflating an expansible air bag within the band and afterward vulcanizing.

1,374,506. STORAGE-BATTERY CONTAINER. HERBERT E. HUNT, Philadelphia, Pa. Filed Nov. 15, 1918. Serial No. 262,637. 1 Claim. (Cl. 206—2.)



A battery container comprising the combination of a crown having provided therein an open gutter and sufficiently massive to maintain the gutter in open condition, a cover provided with a flange adapted to enter the gutter of the crown, sealing compound in the gutter, an exterior wooden receptacle of which the wall is thicker than the crown to protect the same, and a relatively thin single walled leaden vessel fitting and contacting with the interior of and supported by the receptacle and having its single wall extended above the top of the receptacle wall and connected with the crown and constituting the sole means for supporting the latter spaced above and clear of the top of the receptacle wall thus referring the weight of the contents of the vessel to the bottom of the receptacle, substantially as described.

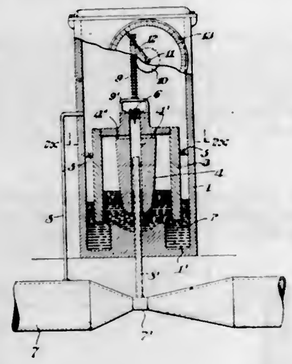
1,374,507. AUTOMATIC ROCKING CRADLE. AUBREY J. LAWSON, New York, N. Y. Filed Oct. 2, 1920. Serial No. 414,289. 1 Claim. (Cl. 5—57.)



An automatic rocking cradle comprising a supporting structure including pairs of end posts connected by longi-

tudinally and transversely extending members, transversely extending braces connecting the upper ends of the posts in pairs, hangers pivoted to the braces, a bed frame supported by said hangers, a substantially V-shaped actuating members secured to one end of the bed frame and having a slot in its apex, a wheel supported by the supporting structure, an eccentric wrist pin on said wheel and fitting in the slot, and means for rotating the wheel.

1,374,508. INTEGRATING MECHANISM. JOHN W. LEDOUX, Swarthmore, Pa. Filed Nov. 21, 1919. Serial No. 339,719. 7 Claims. (Cl. 73—167.)



1. An integrating mechanism comprising a case adapted for containing a fluid heavier than another to be measured, a reciprocatory bell in said case and adapted to be sealed by the heavier fluid, a displacement device movable with said bell and occupying a space therein of variable cross section, and means for communicating differential pressures from the lighter fluid to the interior of said case within and without said bell.

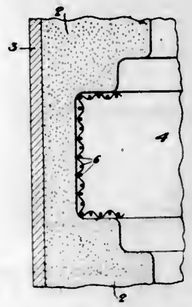
2. An integrating mechanism comprising a case containing a fluid heavier than another to be measured, a reciprocatory cylindrical bell in said case and sealed by the heavier fluid, a shaped displacement device fixed to and within said bell and forming a space therein of variable cross section, and means for communicating differential pressures from the lighter fluid to the interior of the case within and without said bell.

3. An integrating mechanism comprising a case containing a fluid heavier than another fluid to be measured, a cylindrical bell movable vertically in said case and sealed by the heavier fluid therein, a tapered displacement device fixed axially to and within said bell and forming a space therein of variable cross section within which the surface of the heavier fluid is movable, and means for differentiating the pressure of the lighter fluid and communicating differential pressures obtained thereby to the interior of the case within and without said bell.

4. An integrating mechanism comprising a case provided with a dial, a shaft journaled in said case and a hand on said shaft movable thereby over said dial, in combination with a cylindrical bell movable in said case, means whereby said bell revolves said shaft, a tapered displacement device fixed to and within said bell so as to form a space therein which varies functionally in cross sectional area with the flow of a fluid to be measured, and means comprising conduits for communicating differential pressures from said fluid last named to the interior of said case within and without said bell.

5. An integrating mechanism comprising a case adapted for containing a fluid heavier than another to be measured, a reciprocatory bell in said case and adapted to be sealed by said heavier fluid, a device fixed to and within said bell for displacing said heavier fluid and forming therefor a space varying in cross section in functional relation with the flow of the fluid to be measured, and means comprising conduits for communicating differential pressures from said fluid to be measured to said heavier fluid within and without said bell.

1,374,509. ART OF HARDENING METAL. HAROLD A. LOMAX, Pittsburgh, Pa. Filed Oct. 10, 1919. Serial No. 329,700. 3 Claims. (Cl. 148—7.)



1. The process of casting metals consisting in supporting a portion of alloy within a mold at predetermined locations thereof and fusing the same with the molded metal of the casting.

1,374,510. FISHING-TOOL. JOHN FRANK MCDOWELL, Shreveport, La. Filed Apr. 26, 1920. Serial No. 376,697. 2 Claims. (Cl. 294—96.)

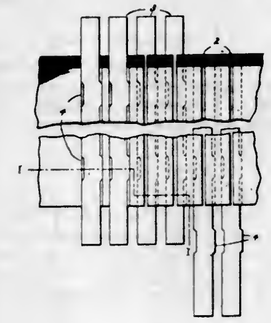


1. A tool of the character specified, comprising a body of cylindrical form having a tapering point, and having recesses extending longitudinally thereof from the upper end and inclining outwardly toward their lower ends and opening through the peripheral wall of the body, and balls in the recess, the openings in the recesses at the periphery of the body being at different levels and large enough to permit a portion of the balls to extrude and being too small to permit the entire ball to pass, the body being of a diameter and the balls of such size that when the holder is lowered into a well casing, the balls will grip the inner wall of the casing, said body having means for connecting it to a stem.

2. A fishing tool comprising a cylindrical body portion having a tapered lower end and a threaded upper end provided for engagement with means for raising and lowering the same, said body being also provided with a series of passages leading from the upper end thereof near the edge portion in a downwardly and outwardly extending

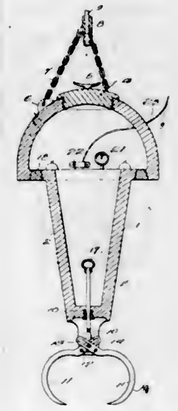
direction diverging from each other and communicating with and through the peripheral face of the body wall of the tool at different points or elevations in stepped-like relation and substantially spiral formation, the openings of the recesses on the periphery being smaller at the top than at the bottom and large enough to permit a considerable portion of the ball to extrude therefrom, but too small to permit the entire ball to pass, and balls in said passages or recesses.

1,374,511. WINDING FOR DYNAMO-ELECTRIC MACHINES. HARRY MATTHEWS, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 7, 1917. Serial No. 190,099. 11 Claims. (Cl. 170—120.)



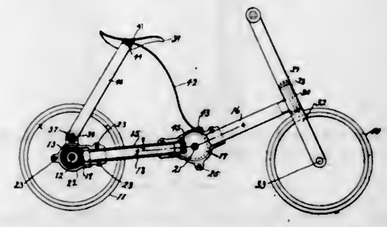
1. In a dynamo-electric machine, the combination with a core member provided with a plurality of longitudinally extending slots, of conducting bars located in the slots and having offset portions thereof in positive engagement with the bounding surfaces of the slots.

1,374,512. SUBMARINE GRAPPLE. ARMOND J. MAYNARD, Waterbury, Conn. Filed Dec. 11, 1919. Serial No. 343,995. 1 Claim. (Cl. 61—69.)



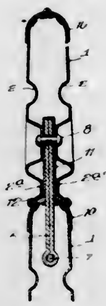
In an apparatus of the class described, a one-piece housing having a body member tapered toward its lower end and being slightly larger than the body of a man, a dome-shaped head carried by the upper end of said body with an inwardly extending flange connecting the lower edge of said head with the upper end of said body offsetting one from the other and forming an instrument board, deadlights mounted in said flange, a manhole in the top of said dome, suspension means connected with said dome, and a grapple carried by the lower end of said body and equipped with an operating rod extending into the body to a position convenient for actuation.

1,374,513. VELOCIPEDE. JOHN A. MOSHER and WILLIAM H. TOWNSEND, Wellington, Ohio. Filed Dec. 2, 1919. Serial No. 341,906. 4 Claims. (Cl. 208—55.)



1. In a velocipede, in combination, a rear axle having a ground wheel at each end thereof, driving gearing connected to the central portion of said axle, a gear case mounted on said axle and inclosing said gearing, a front steering head, and a frame comprising a single longitudinal member connected at its rear end to said gear case and at its front end to the steering head.

1,374,514. METALLIC CURTAIN. ANTIME MOTTEAU, Buenos Aires, Argentina. Filed Aug. 10, 1918. Serial No. 249,263. 2 Claims. (Cl. 189—56.)



1 An all-metal curtain comprising a series of superposed U-shaped, sheet metal links arranged with their loop portions upward, the sides of each link being formed at diametrically-opposite points with inwardly extending parts, and the loop of each link being formed with an aperture, connecting means between the successive links arranged interiorly thereof and extending from each link through the aperture in the loop portion of the next lower link; and fastening devices inserted through the said inwardly extending parts of the links and through the adjacent portions of said connecting means for securing the latter immediately to the sides of said links.

1,374,515. CLIP FOR PENS, PENCILS, AND SIMILAR INSTRUMENTS. SYLVESTER M. NATHAN, Fitchburg, Mass. Filed Nov. 9, 1920. Serial No. 422,784. 13 Claims. (Cl. 24—11.)

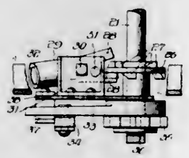
8. A clip of the class described comprising, in combination, a band having an arm extending transversely thereof and provided with a longitudinal slot, a pivot extending across said slot and supported by said arm, a lever received in said slot and fulcrumed on said pivot, said lever being provided with a pair of arms having serrated, eccen-

tric arms thereon and presenting an opening between them, a spring received in said opening and having one



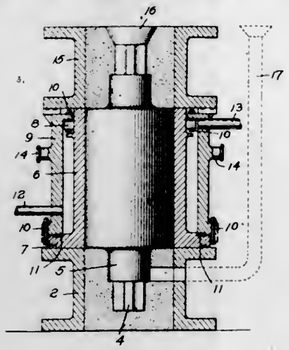
end anchored on said pivot and the other connected to said lever to turn the latter about said pivot.

1,374,516. DOOR-OPERATING MECHANISM. JOHN O. NEIKIRK, Lombard, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 14, 1918. Serial No. 266,729. 8 Claims. (Cl. 105—312.)



1. A door operating mechanism comprising a shaft, a member rigidly mounted upon said shaft, said member being provided with stop members in diagonal relation to each other, and means for consecutively engaging said stop members.

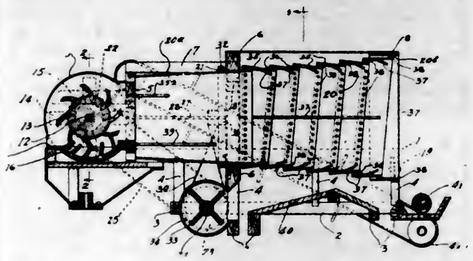
1,374,517. METHOD OF MAKING CHILLED ROLLS. WILLIAM H. NICHOLS, Pittsburgh, Pa. Filed Aug. 18, 1919. Serial No. 318,380. 2 Claims. (Cl. 22—177.)



1. The method of making chilled rolls, consisting in cooling the chilled portion while the couplings and necks are still highly heated, removing the roll from the mold, and reheating the chilled portion by the heat permeating it from the couplings and necks.

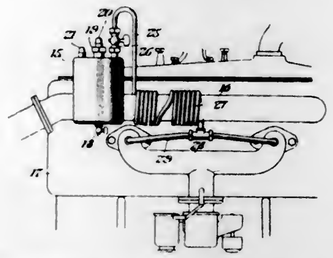
1,374,518. THRESHING-MACHINE OR THE LIKE. PETER ODA, Arcanum, Ohio. Filed May 5, 1920. Serial No. 379,089. 12 Claims. (Cl. 130—27.)

2. In a threshing machine the combination with a threshing cylinder, of a rotatable separator coöperating with the cylinder to receive the threshed grain and straw therefrom, and a blower arranged relative to the cylinder



and adapted to directly discharge a blast against the straw from beneath as it passes into the separator.

1,374,519. CARBON-REMOVER. CYRUS BYRON OLSON, Chicago, Ill., assignor to The Oxygenerator Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1916. Serial No. 77,663. 2 Claims. (Cl. 123—25.)



1. The combination with an internal combustion engine, of a supply tank seated on the exhaust manifold, said tank having a filling opening and a cap therefor, a safety valve and an air intake valve; and a pipe connecting the top of the tank with the intake manifold, a portion of said pipe being coiled about the exhaust manifold.

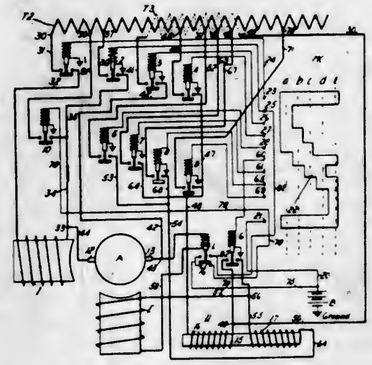
1,374,520. PACKING-GLAND FOR ROTATING BODIES. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, and LOUIS MORTIMER DOUGLAS, Wallsend, England; said Cook and Douglas assignors to said Parsons. Filed Mar. 30, 1920. Serial No. 370,035. 2 Claims. (Cl. 286—7.)



1. In a packing gland for rotating bodies, the combination of projections either on the stationary or the rotating member, said projections having a small clearance from the opposite member, with a stationary balanced divided ring or rings of carbon or like material in contact with the rotating member.

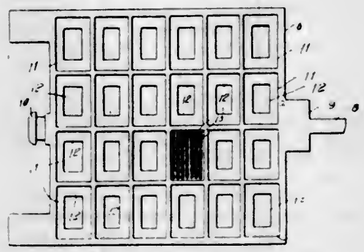
1,374,521. SYSTEM OF CONTROL. LAURENCE M. PERKINS, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1917. Serial No. 202,313. 6 Claims. (Cl. 172—276.)

2. In a system of control, the combination with a transformer winding and a single-phase commutator motor having an armature and an exciting and an inducing field winding, of an inductive device, means for connecting said device in circuit to prevent short-circuits of said transformer wnding during motor acceleration, and means for connecting said device in series relation with said exciting



field winding and for connecting the inducing field winding across a section of the transformer winding for starting to weaken the exciting field strength while maintaining the exciting field-winding current substantially in phase with the armature current.

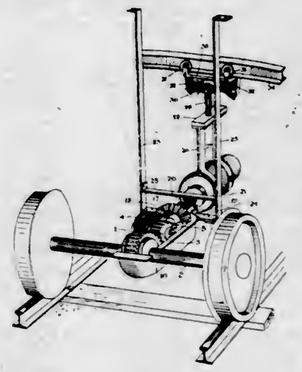
1,374,522. WAFER-TONGS. FERDINAND B. PETERSON, New York, N. Y. Filed Nov. 22, 1917. Serial No. 203,431. 1 Claim. (Cl. 53—10.)



Wafer tongs comprising complemental coextensive mold carrying irons connected at one side by spaced hinge members and provided at opposite edges with alined journals of which the common axis is perpendicular to the axis of the hinge members and in a plane midway between the parallel side edges of the irons, one of said journals being of unitary construction and carried by one of the irons and the other being of sectional construction with its complemental members carried respectively by the coöperating irons for registering contacting relation when the irons are closed, said members being longitudinally extended to form complemental handle members.

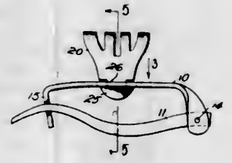
1,374,523. TRAIN-LIGHTING APPARATUS. WILLIAM ALEXANDER PITT, Montreal, Quebec, Canada. Filed May 5, 1920. Serial No. 379,147. 7 Claims. (Cl. 105—109.)

1. In a train lighting apparatus, an electric generator, a flexible support for said generator adjustably suspended from the car body, a gear wheel mounted on an axle of the car running gear, a train of gear wheels operatively con-



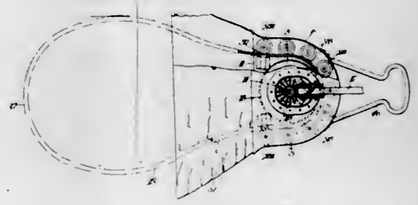
necting said axle gear with the shaft of said generator and independent supporting means for said train of gears from the car body.

1,374,524. HAIR ORNAMENT. ALSTON L. PRESTON, Leominster, Mass. Filed June 21, 1920. Serial No. 390,537. 4 Claims. (Cl. 132—48.)



1. As an article of manufacture, a bow-holding hair ornament comprising a body formed of a sheet of celluloid having a bow-holding means thereon, an integral end extending backwardly at the center of the end of the body to form a single hook and an opposite integral end extending backwardly to form a support for a hair-retaining pin.

1,374,525. COAL-MINING MACHINE. JOHN D. PUGH, Harrisburg, Pa. Filed June 30, 1915. Serial No. 37,265. 8 Claims. (Cl. 262—28.)



1. In a cutting machine the combination with an endless flexible cutter having sufficient stiffness and resiliency to tend to assume the form of a circle, of holding means for engaging a section of said cutter and holding it bent on a curve having a diameter less than said circle leaving the balance of said cutter projecting from said holding means, and means for driving the cutter.

1,374,526. PROCESS OF PRODUCING A PHENOLIC CONDENSATION PRODUCT. LAWRENCE V. REDMAN, Evanston, and ARCHIE J. WEITH and FRANK P. BROCK, Chicago, Ill., assignors to Redmanol Chemical Products Company, Chicago, Ill, a Corporation of West Virginia. Filed Sept. 16, 1918. Serial No. 254,370. 2 Claims. (Cl. 106—22.)

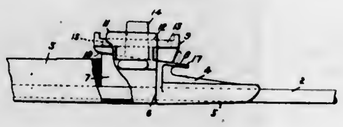
1. The process of producing a phenolic condensation product, without the use of a condensing agent, which comprises: boiling together equal parts of a 40 per cent. formaldehyde solution and phenol until there is formed a viscous gummy lower layer and a supernatant aqueous layer containing approximately 10 per cent. of formaldehyde; discarding the aqueous layer; shaping and hardening the mass by subjecting to prolonged heat treatment at a temperature below 100° C. until the mass becomes hard and substantially insoluble and anhydrous throughout; and then subjecting the mass to further heat treatment at a temperature exceeding 100° C. for a relatively short period.

1,374,527. SECTION-CARRIER FOR STEAM-SHOVELS. WILLIAM N. ROWE, Hibbing, Minn. Filed Mar. 8, 1920. Serial No. 364,027. 13 Claims. (Cl. 104—3.)



1. In steam shovel equipment, the combination of a trolley track extending from the front to the rear of a steam shovel for carrying a track section over which the shovel moves, and a jib crane on the front end of the shovel having an arm which in one position registers with the trolley track and is sufficiently long to permit the carried track section to clear jack mechanism supporting the shovel and whereby said track section may be placed in proper position.

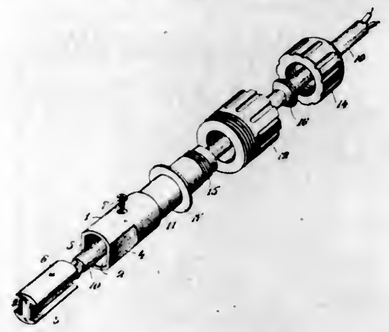
1,374,528. DEVICE FOR TROLLEY-CONDUCTORS. WILLIAM SCHAAKE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1918. Serial No. 221,389. 9 Claims. (Cl. 191—38.)



1. An approach for a trolley frog comprising a trolley-conductor-engaging extension member disposed adjacent to the frog and having an inclined plane face, a wedge member engaging the plane face of the extension member and a member on the frog for coöperation with the wedge member to assist the latter in holding the extension member rigidly against the conductor.

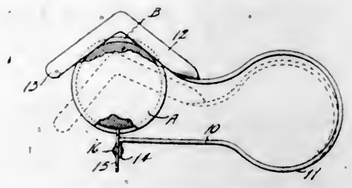
1,374,529. CONNECTOR-PLUG. FRANK L. SIMMONS, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Feb. 1, 1918. Serial No. 214,878. 2 Claims. (Cl. 173—361.)

1. As an article of manufacture, a connector plug for magnetic chucks and the like, comprising a body portion formed of an elongated member having a cylindrical portion and a non-cylindrical end, said non-cylindrical end being hollow, a blade block adapted to fit within said hollow non-cylindrical end, a pair of contact blades mounted on said block and on each side thereof, said body portion being provided with a passageway leading to said hollow portion and forming a conduit for a suitable waterproof



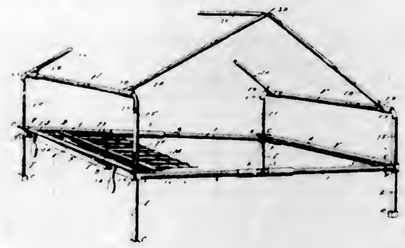
cable, a rotatable screw threaded member mounted on said cylindrical portion, and provided on its inner end with a gasket, a hood mounted on the outer end of said body portion and adapted to compress a gasket around a waterproof cable whereby a waterproof joint is formed between the plug and said cable.

1,374,530. CARBON-REMOVING TOOL. EUGENE H. SLAGLE, Ennis, Tex. Filed Sept. 28, 1920. Serial No. 413,274. 5 Claims. (Cl. 83—64.)



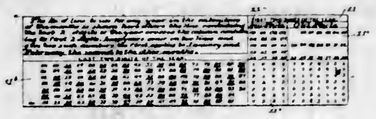
1. In a carbon removing tool, a resilient yoke-shaped member having a jaw at one end, and a scraper pivotally mounted on the opposite end of the member opposite the jaw and having a plurality of blades.

1,374,531. COLLAPSIBLE BED STRUCTURE. SAM R. SMITH, Los Angeles, Calif. Filed July 21, 1919. Serial No. 313,103. 2 Claims. (Cl. 5—5.)



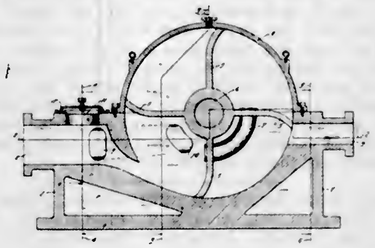
1. A canopy bed structure including end rails of L-shaped cross section, side rails for spacing said end rails, connectors at the corners for holding said side rails together, said end rails having sockets formed in the included angle between the sides, and said connectors having arms adapted to engage said sockets, for holding said side rails spaced apart.

1,374,532. PERPETUAL CALENDAR. WILLIAM J. SPILLMAN, Washington, D. C. Filed May 18, 1920. Serial No. 382,262. 5 Claims. (Cl. 283—2.)



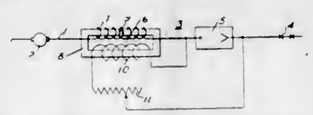
1. A calendar comprising a table of numbers indicating years arranged consecutively in groups of seven spaces with two spaces for leap years, a series of month calendars each calendar having one of seven symbols, and a table of symbols arranged in groups of seven, the symbol for any given month calendar having the same position in its group as do those numbers in their groups of seven spaces which indicate years in which said month calendar is applicable.

1,374,533. DREDGE-PUMP. ANDERS GUSTAF STENBERG, Galveston, Tex. Filed July 29, 1914. Serial No. 853,851. 3 Claims. (Cl. 253—176.)



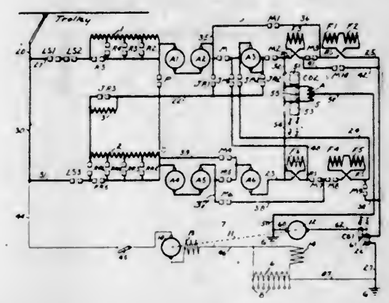
3. A pump including a rotor chamber, having an inlet and an outlet, a rotor in said chamber having blades dividing the rotor into a series of pockets, said blades having recesses in their edges to allow of communication between said pockets, a reduced throat for delivering material from the inlet to the pockets through the periphery of the rotor, a by-pass having an intake port in communication with said inlet near said throat, and a discharge port leading into the rotor chamber for delivering material to the central portions of said pockets, said discharge port being arcuate and disposed to register with said recesses, and ribs in the rotor chamber near said outlet and adapted to be received by said recesses whereby to close the communication between preceding and following pockets at the point of evacuation.

1,374,534. CIRCUIT-INTERRUPTING DEVICE. NORMAN W. STOREY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 6, 1917. Serial No. 140,920. 11 Claims. (Cl. 175—294.)



1. In an electric circuit, the combination with a vacuum-electric apparatus normally traversed by current in one direction, of a transformer the primary winding of which is connected in series with the vacuum-electric apparatus, a resistor connected in series with the secondary winding of the transformer, the circuit thus constituted being so connected in parallel relation to the vacuum-electric apparatus as to tend to force current therethrough in the incorrect direction.

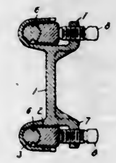
1,374,535. SYSTEM OF CONTROL. NORMAN W. STOREY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1917. Serial No. 193,687. 8 Claims. (Cl. 172—179.)



5. The method of operating a plurality of dynamo-electric machines from a supply circuit that consists in successively connecting the machines to the supply circuit in various groupings comprising parallel paths forming an arithmetical series and that further consists in maintaining closed-circuit transitions between steps.

1,374,536. [WITHDRAWN.]

1,374,537. STRUCTURE FOR TROLLEY-WIRE FITTINGS. NILS J. A. WAHLBERG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1917. Serial No. 184,806. 5 Claims. (Cl. 191—40.)



4. A trolley-line device for disposition at an intermediate portion of a trolley conductor comprising a body member having a groove for the reception of the conductor and an integral portion extending across said groove, a renewable approach member, and means coöperating between said integral portion and said approach member for securing the latter in position.

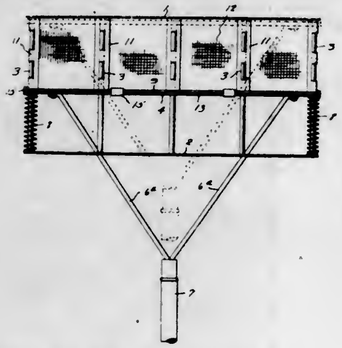
1,374,538. REFRACTORY INSULATION. PAUL G. WILLETTS, Fairmont, W. Va. Filed Dec. 17, 1919. Serial No. 345,470. 10 Claims. (Cl. 106—10.)

1. A composition of matter to be burned for the production of refractory heat-insulating material, containing finely divided lignite coal intimately mixed with plastic fire-clay having a high silica content.

1,374,539. FLYTRAP. MAURICE E. WILSON, Perry, Ohio. Filed Sept. 27, 1920. Serial No. 413,068. 4 Claims. (Cl. 43—136.)

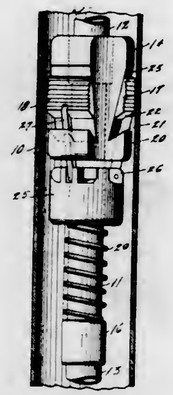
3. An insect destroying device comprising upper and lower frames and guide rods connecting the same, a flexible cage extending around said guide rods adjacent the upper frame, a paper holding frame slidably mounted on

said guide rods between the upper and lower frames, a handle connected to the paper holding frame to slide the



same toward the upper frame, and springs connected to the paper holding frame to return the same to original position.

1,374,540. WELL-TUBING CATCHER. ROBERT A. WILSON, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed Feb. 20, 1920, Serial No. 360,031. Renewed Feb. 24, 1921. Serial No. 447,551. 3 Claims. (Cl. 103—65.)

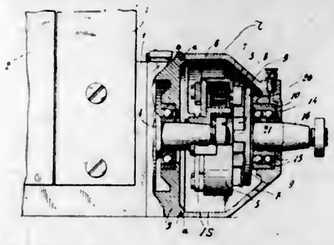


1. A well tubing catcher comprising, a head having longitudinally extending inclined portions, converging downwardly, each portion having a face curved in cross section, said face being formed upon an arc having a constant radius throughout the entire length of the face, and gripping slips extending longitudinally of said portions, said slips having inner inclined faces converging downwardly, each slip face being curved in cross section and formed upon an arc having a radius constant throughout the entire length of the slip, whereby the slip face closely fits the face of said portion throughout its entire length and such close fitting is permanently maintained during the operation of the device.

1,374,541. ELECTROLYTIC PROCESS. FREDERICK S. WOODWARD, Richmond Hill, N. Y. Filed July 25, 1919. Serial No. 313,329. 3 Claims. (Cl. 204—10.)

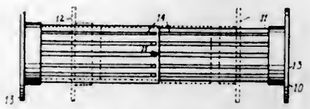
1. An electrolytic process comprising depositing copper from an acid bath with an anode insoluble in the bath, and neutralizing only the resulting increment of free acid while restoring the bath to normal strength and condition.

1,374,542. MAGNETO FOR GAS-ENGINES. FREDERICK WILLIAM ANDREW, Brooklyn, N. Y., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 23, 1920. Serial No. 391,133. 8 Claims. (Cl. 123—149.)



1. In a magneto for gas engines, a framework through which projects one end of the magneto shaft, an impulse starter operatively mounted on said projecting end of the shaft, said impulse starter comprising a driven member and a driving member, a casing or cover secured to said framework and inclosing said impulse starter, a stub-shaft journaled in said casing in axial alinement with the magneto shaft and projecting outside the casing for connection with the engine, said casing and stub-shaft being removable and replaceable as a unit without disturbing said members of the impulse starter, and automatically adjustable coupling means within said casing for connecting the driving member of the impulse starter to said stub-shaft, said coupling means comprising readily separable and unitable parts which permits ready removal and replacing of the casing and stub-shaft.

1,374,543. APPARATUS FOR DYEING TOPS, YARN, &c. ASA ASHWORTH, Salamanca, N. Y. Filed May 17, 1920. Serial No. 381,803. 6 Claims. (Cl. 8—19.)



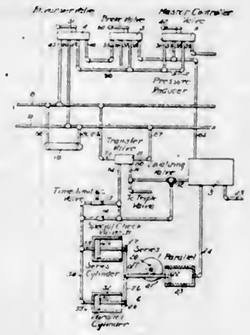
1. A yarn reel or spool comprising telescoping flanged parts having registering slots therein to permit the flow of the dye through the same, and means to hold said slots in register in different positions of said telescoping parts.

1,374,544. OVERSHOE-APPLICATOR. ERIK A. ASHLUND, Waukegan, Ill. Filed Jan. 24, 1921. Serial No. 439,337. 2 Claims. (Cl. 132—8.)



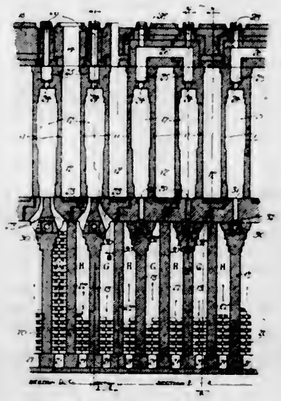
1. In a device of the class described, the combination with a hollow handle provided in its lower portion with a forwardly extended neck having its rear portion open, of a concavo convex clamping member on the lower end of said neck and extended downwardly therefrom, another clamping member curved to correspond with the curvature of the first mentioned clamping member and having at its upper portion a rearwardly and upwardly extended arm pivotally secured to the lower portion of said neck, a rod connected at its lower end to said arm above its pivot and extended through the hollow handle, and a spring connecting the neck and arm above the pivot of the latter.

1,374,545. CONTROL SYSTEM AND APPARATUS. BASCUM O. AUSTIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 11, 1919. Serial No. 330,122. 24 Claims. (Cl. 105—61.)



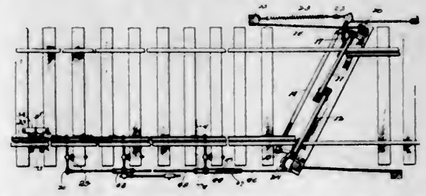
1. A control system comprising a circuit-governing member having a plurality of operative positions, and operating means for said member having a plurality of successive and unlike differential effects corresponding to the respective positions.

1,374,546. COKING RETORT-OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1920. Serial No. 422,422. 16 Claims. (Cl. 202—9.)



1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such coking chambers and respectively constituted of vertical combustion flues; tapered horizontal flues in each heating wall and respectively connecting a plurality of the combustion flues of their respective heating walls; the horizontal flues being also communicably connected with the corresponding horizontal flues of an adjacent heating wall; individually regulable and reversible crosswise-extending regenerators parallel with the coking chamber and the heating walls, such regenerators being communicably connected in pairs with combustion flues of a single heating wall; and means for separably controlling the individual flow through individual regenerators and their connected groups of combustion flues; substantially as specified.

1,374,547. AUTOMATIC MINE-DOOR. NEWTON K. BOWMAN, Canton, Ohio. Filed Feb. 14, 1920. Serial No. 358,673. 11 Claims. (Cl. 246—307.)



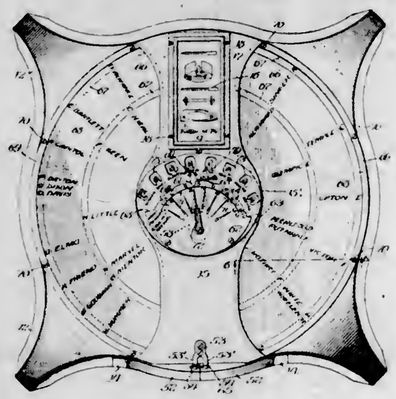
2. A device of the character described including a door formed of companion leaves coupled to swing simultaneously in opposite directions, operating means for opening the door including a crank arm connected to one of said leaves, a spring connected to said crank arm normally holding the door closed, means whereby the leverage of the spring upon the door may be varied, and means for tensioning said spring.

1,374,548. COMBINED STEPLADDER AND EXTENSION-LADDER. LITTLETON A. BOYD, Illiopolis, Ill. Filed May 25, 1920. Serial No. 384,106. 1 Claim. (Cl. 228—23.)



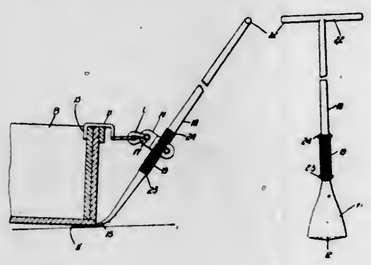
In a combined step ladder and extension ladder, the combination of ladder sections, each of the sections having steps or rounds disposed in substantially parallel relation when the sections are extended, the topmost steps or rounds being disposed in proximity to the hinge means but spaced sufficiently therefrom to permit the insertion of a board between the steps and hinge means, hinge means operatively connecting one end of each of the ladder sections, a board adapted to be inserted between said topmost steps or rounds and the hinge means to thereby lock the ladder in position for use as a step ladder, and means carried by one of the sections adapted to be rigidly connected to the other section to lock the sections in longitudinal alinement for use as an ordinary or straight ladder.

1,374,549. COMMODITY-CABINET. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 15, 1919. Serial No. 277,252. 3 Claims. (Cl. 211—7.)



1. In a commodity cabinet, the combination of a casing having a side wall formed with an opening, a carrier rotatably mounted in said casing, a group of radially sliding drawers mounted on the upper side of said carrier, a group of swinging commodity holders each pivotally mounted on the under side of said carrier at a point midway between two adjacent drawers, whereby any one of said drawers and the underlying holder may be withdrawn through said opening when brought opposite the latter.

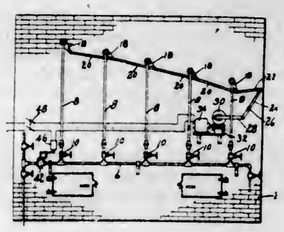
1,374,550. SKID. JOHN C. CHURLEY, Rankin, Pa. Filed May 18, 1918. Serial No. 235,415. 1 Claim. (Cl. 214—65.4.)



A receptacle-tilting-and-moving device comprising a bar having one end provided with a handle and its other end laterally curved and expanded to form a blade having a thin convex edge, a block clamped upon said bar intermediate its ends and adjustable thereon, a receptacle-engaging hook, and a link interposed between said block and said hook and loosely connected to each of said members.

1,374,551. SOOT-CLEANING APPARATUS. CHARLES W. E. CLARKE, Brookline, Mass. Filed Sept. 10, 1917. Serial No. 190,471. 3 Claims. (Cl. 122—392.)

1. A soot cleaning apparatus for boilers comprising, in combination, a plurality of steam supply pipes mounted in the boiler for movement about their longitudinal axes, each of said pipes being provided with one or more nozzles inside the boiler, a motor, and connections between said motor and said pipes to oscillate each pipe about its longitudinal axis, said connections including means to give

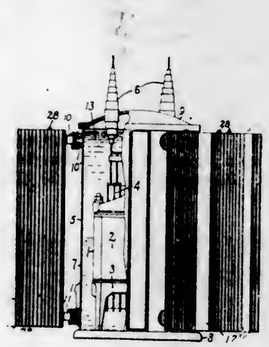


some of said pipes greater angular movements than the others.

1,374,552. PICKLING PROCESS. JOHN COULSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,335. 8 Claims. (Cl. 148—24.)

1. The process that comprises subjecting a ferrous metal, as an electrode of one polarity and subsequently as an electrode of opposite polarity to the action of an electric current in the presence of an electrolyte containing sulfuric acid.

1,374,553. TRANSFORMER-TANK. WALTER M. DANN, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 18, 1915. Serial No. 8,997. 15 Claims. (Cl. 257—191.)



1. A liquid containing casing having a plurality of detachable heat radiators which connect its end portions and provide closed paths for the circulation of a body of liquid, the radiators comprising chambers having side-walls in which are formed longitudinally extending corrugations and end plates therefor which conform in shape to the cross sections of the end of said chambers in order to subject substantially all the exterior side-wall surfaces of the radiators to rising air currents.

1,374,554. LOCKING DEVICE. WILLIAM F. DARBY, Jacksonville, Mo. Filed July 12, 1920. Serial No. 395,467. 4 Claims. (Cl. 151—30.)

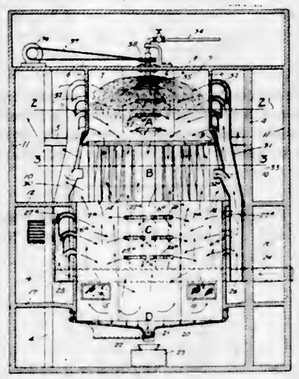
2. A device of the class described comprising a split loop to encircle a member to be locked and having its end

portions flared to form arms, the inner portion of said loop being provided with teeth to secure said member, and



an elliptical locking link adapted to be engaged with said arms and turned about the same to bind them together.

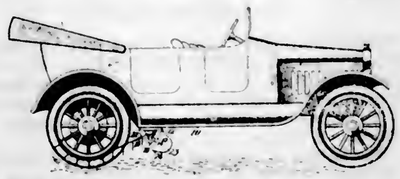
1,374,555. DEHYDRATED MILK AND PROCESS OF PRODUCING SAME. SAMUEL M. DICK, Minneapolis, Minn., assignor to International Dry Milk Company, Minneapolis, Minn., a Corporation of Delaware. Filed Jan. 31, 1920. Serial No. 355,358. 10 Claims. (Cl. 99—5.)



1. The process of producing a dry powder from whole milk consisting in atomizing milk without pressure in a suitable dehydrating cell, subjecting the atomized milk to the action of compound currents of heated air, thereby dehydrating the milk without breaking or injuring the globules of butter fat, and simultaneously coating or encysting said butter fat globules with casein, albumin and other colloidal constituents of the milk.

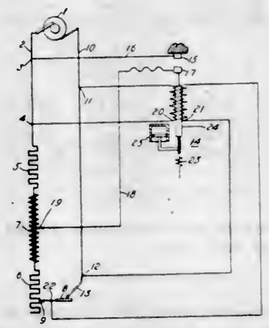
10. A powder made from milk in which the butter fat particles are maintained in their normal condition being encysted or coated with a film of casein or other constituents of the milk, such casein or other constituents being capable of ready solution, on addition of a requisite quantity of water, to produce a liquid substantially the same as normal milk and on which the cream will rise as on such milk.

1,374,556. CHAIN-CARRYING ATTACHMENT FOR MOTOR-VEHICLES. EDWARD L. DUNN, Worcester, Mass. Filed June 27, 1916. Serial No. 106,249. 9 Claims. (Cl. 152—14.)



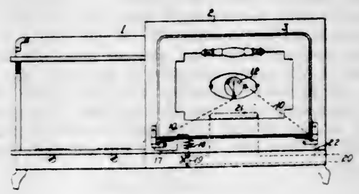
1. In an attachment for a vehicle, the combination of a casing, means within the casing for holding an anti-slipping device, and yielding means for engaging the anti-slipping device while on said holding means and preventing its rattling.

1,374,557. ARC-WELDING SYSTEM. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1919. Serial No. 277,328. 8 Claims. (Cl. 219—15.)



1. An electric-arc welding system comprising means for providing a relatively high starting current and means for automatically reducing the starting current to a desirable operating value when an arc is established.

1,374,558. ELECTRIC RANGE. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Sept. 25, 1919. Serial No. 326,305. 6 Claims. (Cl. 219—35.)

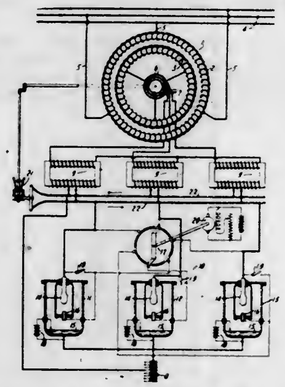


1. In an electrically-heated apparatus, the combination with a chamber, a hinged door for said chamber having hollow hinges, a thermostat mounted on said door, an electric circuit and stationary contact terminals mounted adjacent to said chamber, of means mounted in said hollow hinges for connecting said thermostat to said contact terminals by placing the door in its operative position.

1,374,559. INDUCTION-MOTOR CONTROL. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 9, 1915. Serial No. 54,952. 2 Claims. (Cl. 172—274.)

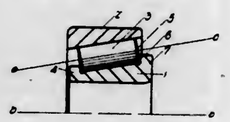
1. The combination with an induction motor provided with a wound secondary member, of a constant-potential device connected to said secondary member for absorbing energy therefrom in the speed control of said motor, a

transformer connected between said secondary member and said device, and automatic means for adjusting the ratio



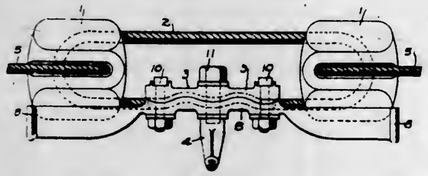
of transformation of said transformer, subject to control by the speed of said motor.

1,374,560. ROLLER-BEARING. JOSEPH A. GANSTER, Philadelphia, Pa. Filed Jan. 5, 1920. Serial No. 349,364. 1 Claim. (Cl. 64—62.)



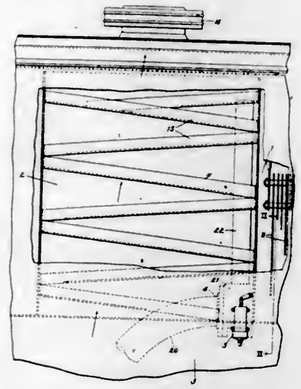
A roller bearing comprising the combination of inner and outer rings having parallel opposed roller races inclined at the same angle in respect to the common axis of the rings and whereof the inner one is provided with a pair of spaced parallel shoulders, a circle of cylindrical rollers arranged between the races and between the shoulders and having their ends rounded on substantially the radius of one of the shoulders and arranged for continuous arcuate surface contact at one end with the rim of the last mentioned shoulder and for polar contact with the rim of the other shoulder to facilitate slip of the rollers due to their cylindrical form, and a cage or separator contacting over a large area with the cylindrical surface of the rollers inside and outside of the orbit described by their axes to control slip and maintain axial alinement.

1,374,561. TROLLEY-HANGER. HARRY L. GARBUTT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1917. Serial No. 142,633. 7 Claims. (Cl. 191—42.)



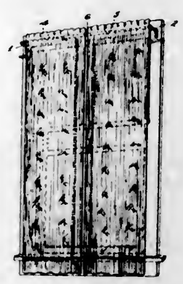
1. A trolley hanger comprising a looped cable, a clamp for securing the ends of said cable, insulating supporting means interlinking said cable at each end of the major axis thereof, and a trolley-conductor-supporting means secured to said clamp.

1,374,562. CONTROL APPARATUS. ARTHUR J. HALL, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1916. Serial No. 134,610. 14 Claims. (Cl. 219—57.)



1. In a liquid-containing rheostat, the combination with an electrode-containing tank and a cooling tower, of means depending upon predetermined rheostatic operation for varying the volume of liquid traversing said cooling tower.

1,374,563. CURTAIN-ROD. AUGUST HARTMEYER, Los Angeles, Calif. Filed June 7, 1920. Serial No. 387,271. 1 Claim. (Cl. 156—22.)

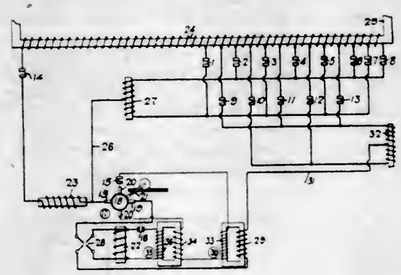


A window curtain rod including a pair of brackets, a telescoping rod comprising three tubular sections, a flat plate spring extending into the outer end of each end section, the inner end of each plate spring being bent to prevent it from pulling out of the section, pivots extending through the outer ends of said end sections and through the plate spring therein and through said brackets respectively, the intermediate rod section adapted to be telescoped over both of said end sections or over one only of said end sections to permit the end sections to be swung horizontally.

1,374,564. RECUPERATIVE SYSTEM FOR ALTERNATING-CURRENT COMMUTATOR-MOTORS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 9, 1916. Serial No. 119,265. 6 Claims. (Cl. 172—276.)

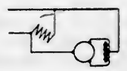
3. The method of recuperatively operating an alternating-current motor of the inducing-field commutator type provided with appropriate interconnected brushes for rotor-exciting field excitation connected to driving means

and further provided with means for introducing an electromotive force in the rotor-exciting field circuit proportional to the armature load current and with means for impressing an electromotive force across the stator-exciting field winding proportional to the current flowing



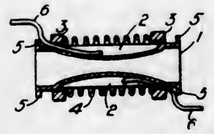
in the rotor-exciting field circuit which comprises, at high speeds, operating said motor with solely the inducing-field winding connected to the source and with purely rotor-exciting field excitation and, at lower speeds, establishing a doubly-fed connection wherein the exciting field is produced jointly by rotor and stator-exciting means.

1,374,565. ALTERNATING-CURRENT COMMUTATOR-MOTOR. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1917. Serial No. 140,733. 5 Claims. (Cl. 172—276.)



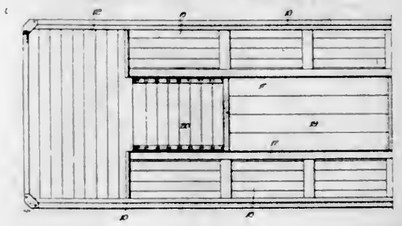
1. In an alternating-current commutator motor, a stator field winding, a rotor having an induced winding and a commutator to which said induced winding is connected and provided with sets of brushes, and mutually-inductive reactors connected to said brushes, said reactors being adapted to oppose the flow of exciting current between certain of said brushes without opposing the flow of load current through said brushes, said reactors having a magnetic circuit adapted to become magnetically saturated when a predetermined voltage exists between certain of said brushes.

1,374,566. CONNECTOR. PAUL M. HENGSTENBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 11, 1919. Serial No. 281,957. 8 Claims. (Cl. 287—115.)



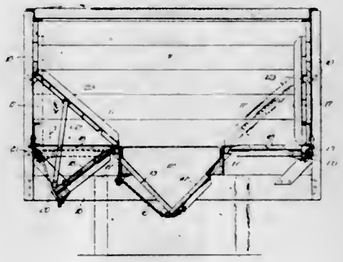
2. A connector comprising a cylindrical member having a plurality of longitudinal conductor-receiving grooves extending between points removed from the ends thereof, longitudinally-slidable rings embracing said member, a helical spring embracing said member between said rings to secure the conductors in position, and means for limiting the movement of said rings.

1,374,567. DUMP-CAR. DAVID HINDAHL, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 21, 1919. Serial No. 278,333. 16 Claims. (Cl. 105—243.)



1. A car of the class described, having a hopper, the end cover sections of which hopper are changeable in position to enable them to serve as portions of the flat door of the converted car, said sections or portions in either position being arranged in a horizontal plane.

1,374,568. CONVERTIBLE BALLAST-CAR. DAVID HINDAHL, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 8, 1919. Serial No. 336,576. 7 Claims. (Cl. 105—243.)

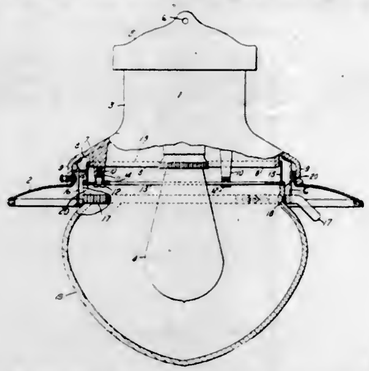


1. In a convertible car having sides, ends and a bottom which may be converted from a hopper bottom to a flat bottom, each side including a convertible member movable from an inclined position in which it forms a hopper wall, to a vertical position, said bottom including a dump door, and means whereby said convertible member may be shifted through an operation of said door.

1,374,569. LAMP-FIXTURE. SAMUEL C. HOEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1917. Serial No. 202,698. 10 Claims. (Cl. 240—115.)

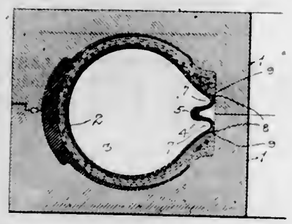
1. In a lamp, the combination with a lamp-supporting structure positioned at one side only of the globe, of a resiliently mounted globe seat on the supporting structure, said seat comprising a ring, against which a globe is

adapted to be held in abutting engagement, and means for compensating differences in the axial lengths of similar



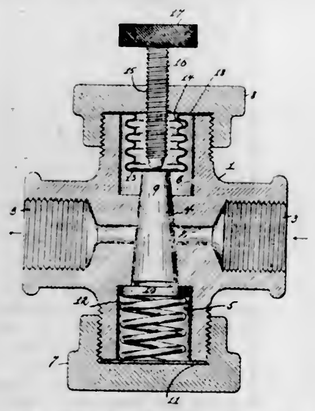
globes therefor in maintaining the same in said abutting engagement.

1,374,570. AIR-BAG FOR VEHICLE-TIRES. ANDREW HUETTER, Dayton, Ohio, assignor to The Allsteel Ridewell Tire and Rubber Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 19, 1920. Serial No. 374,983. 12 Claims. (Cl. 18—45.)



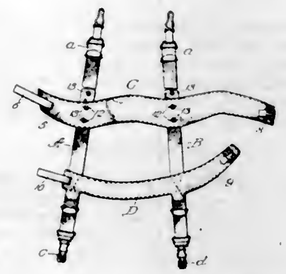
12. In a tire core, a tubular annulus, two parallel shoulder beads upon the inner circumference of the annulus, an expansible area between said shoulders, and means for applying internal pressure to the core.

1,374,571. HIGH-PRESSURE VALVE. CHARLES F. HUMMEL, Roselle Park, N. J. Filed Feb. 7, 1920. Serial No. 356,809. 4 Claims. (Cl. 251—24.)



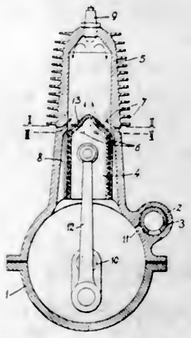
4. In a high pressure valve, the combination with a valve body having an axial pasasge therethrough, and further provided with a tapered bore intersecting and communicating directly with the said passage, said tapered bore communicating with diametrically oppositely arranged cavities in the ends of the valve body, removable closures for the ends of the valve body in which said cavities are located, a tapered valve disposed in the said tapered bore and movable axially therein, a spring abutting at its inner end against the valve and at its outer end against the said closure, a collapsible corrugated diaphragm closed at one end and provided with a flange at the open end, the closed end thereof abutting against the valve and the flanged end interposed between the valve body and the mentioned closure, and a screw-threaded stud in the closure movable into and out of engagement with the bottom of the said diaphragm.

1,374,572. HOSE-SUPPORTER. NETTIE M. HURD, Chicago, Ill. Filed Nov. 18, 1918. Serial No. 262,978. Renewed Feb. 4, 1920. Serial No. 356,122. 5 Claims. (Cl. 241—1.)



1. A hose supporter comprising two supporting-straps, devices secured to their upper ends for suspending the same from the clothing, clasps on their lower ends for fastening the hose thereto, a transverse over-knee band, a transverse under-knee band connecting said supporting straps, and separable means for adjustably connecting together the ends of said bands extending beyond said straps; said over-knee band being curved upward between said straps.

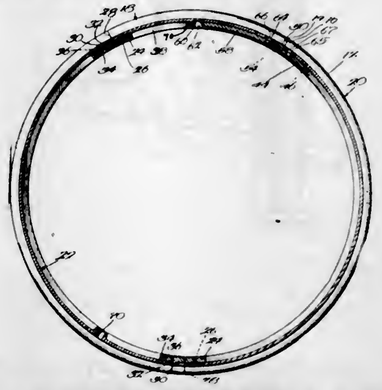
1,374,573. TWO-STROKE INTERNAL-COMBUSTION ENGINE. AUGUST MAX IMHOFF, Berne, Switzerland, assignor to Imhoff Motor Co., A. G., Interlaken, Switzerland, a Corporation of Switzerland. Filed Mar. 26, 1918. Serial No. 224,706. 1 Claim. (Cl. 123—73.)



A two cycle engine, comprising a crank casing wherein fuel is compressed, a cylinder carried by said casing and having a series of fuel inlet ports each of which decreases in width toward the interior of the cylinder whereby intact parts of relatively substantial area are present between adjacent inlet ports, and a piston reciprocable in said cylinder, said piston having its head

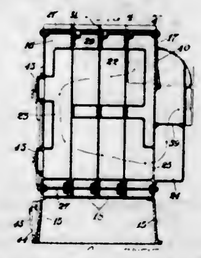
depressed and a plurality of spaced radial ribs extending from the pston head, whereby when said piston is in position to admit fuel to the cylinder the ribs will aline with the intact parts between the inlet ports and the spaces between the ribs will aline with said inlet ports so that the fuel will enter the said cylinder in substantially parallel streams without the formation of eddies.

1,374,574. COLLAPSIBLE RIM FOR WHEELS. EUGENE A. JONES, Los Angeles, Calif. Filed June 21, 1919. Serial No. 305,938. 2 Claims. (Cl. 301—33.)



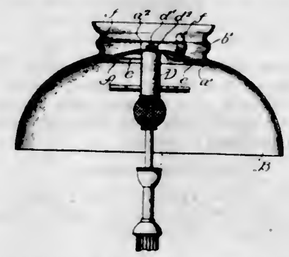
1. In mechanism of the class described, a pair of abutting rim sections, a lever on the under side of the rim overlapping the line of severance between said rim sections, a block rising from the middle portion of said lever reinforcing said lever and affording a pivotal connection between said lever and the end of one of the rim sections, means attaching one end of said lever to the other rim section at a point remote from said line or severance, positioning lugs on said lever at opposite sides of said block entering recesses in the respective rim sections, and means for securing the other end of the lever to the rim section to which it is pivoted at the center.

1,374,575. SECTIONAL HEATER. JOHN JUNGERS, Grafton, Wis. Filed Aug. 10, 1917. Serial No. 185,468. 1 Claim. (Cl. 122—225.)



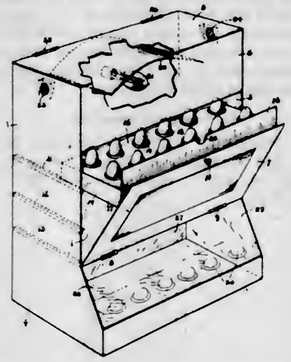
In a sectional water heater, the combination of hollow front, back and intermediate sections secured together to form a water jacket inclosing a narrow, deep central fuel chamber having a charging opening at its upper end, each of said sections having a water jacket space at their sides and top, the front section having a water jacket extending across the front thereof, the rear section having a water jacket extending across the rear thereof, upper and lower flues in the sides of each of the sections communicating at their forward ends through a passage in the front section, the upper flues communicating at their rear ends with the upper portion of the fuel chamber, a smoke box extending across the rear section and covering the rear side of the water jacket space of this section, said smoke box having a valve-controlled passage communicating with the fuel chamber, openings in its sides communicating with the rear ends of the lower flues, and an intermediate discharge opening, and a baffle plate in said smoke box below said discharge openings to direct the gases from the flues to the sides of said smoke box.

1,374,576. LAMP-SHADE HOLDER. HERBERT J. KEITH, Freeport, Ill., assignor to Ulfers Manufacturing Company, Freeport, Ill., a Copartnership. Filed Mar. 3, 1919. Serial No. 280,238. 4 Claims. (Cl. 240—115.)



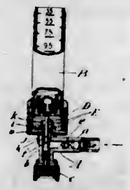
1. A holder for lamp shades comprising a substantially flat sheet metal disk adapted to be centrally supported upon the upper end of the lamp with its supporting rim extending beneath the upper portion of the shade, said disk having a series of elongated fingers extending inwardly from its supporting rim and adapted to be bent upwardly and adjusted to snugly fit within the neck of the shade, substantially as described.

1,374,577. EGG-TESTER. JOHN O. KELLER, Cincinnati, Ohio, assignor of one-half to Fred W. Keller, Covington, Ky. Filed July 17, 1919. Serial No. 311,568. 1 Claim. (Cl. 99—6.)



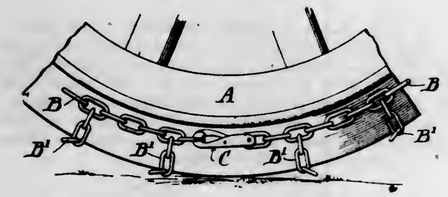
An egg tester comprising a cabinet having a drawer containing compartment, a series of drawer slides in the drawer-containing compartment, adapted to receive one or more drawers, a series of bottomless skeleton drawers having notched fronts, adapted to occupy the slides, the fronts substantially closing the drawer containing compartment, a lamp containing compartment above the drawer containing compartment, a reflector above the lamp in the lamp containing compartment, doors closing the lamp-containing and drawer-containing compartments, and a reflecting compartment beneath the drawer-containing compartment, said reflecting compartment having a reflecting surface on each of its inner walls and having an open front rendering each reflecting surface visible at a distance from the tester.

1,374,578. GAGE AND PUMP CONNECTION. HENRY P. KRAFT, Ridgewood, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 3, 1919. Serial No. 287,180. 4 Claims. (Cl. 152—11.5.)



1. The combination with a pump connection, of a gage connection comprising a cuplike structure adapted to receive the base portion of a tire gage, and having a contracted portion adapted to fit upon the pump connection and means for clamping it thereto.

1,374,579. CHAIN-FASTENER. AMOS LEA KELTNER, Eldorado, Kans. Filed Aug. 19, 1920. Serial No. 404,555. 3 Claims. (Cl. 24—69.)



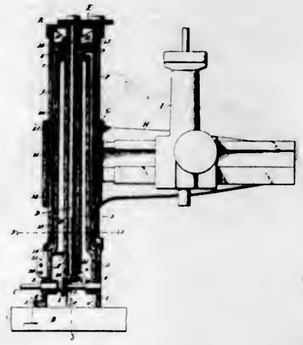
1. A fastening device for chains, comprising a frame consisting of two members held a suitable distance apart, to one end of which a chain is permanently connected and the other end of which is formed with a hook or recess, and a locking lever formed with a hook or recess, adapted to register with the hook or recess of the frame and having a curved handle, the outer end of which is adapted to enter the frame between the sides thereof and between the upper and lower ends of the frame being thus housed and protected against accidental opening.

1,374,580. WOODEN PANEL. EDWARD K. KEPLEY, Boonton, and CHARLES A. COLE, Jersey City, N. J. Filed Aug. 20, 1920. Serial No. 404,790. 5 Claims. (Cl. 20—15.)



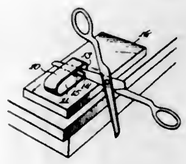
1. A panel consisting of front and rear boards and wooden spacing strips secured to both boards along each longitudinal and transverse edge of the panel but otherwise unconnected to each other, there being spaces between the end portions of said strips for the purposes specified.

1,374,581. RADIAL DRILL. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 8, 1919. Serial No. 316,048. 8 Claims. (Cl. 77—28.)



1. A radial drill combining a base; an arm extending horizontally therewith; an upright post carried by said base and arranged to support one end of said arm, said post being formed of nested tubular portions integrally connected by radial vanes; and means for effecting a relative adjustment between said arm and said base.

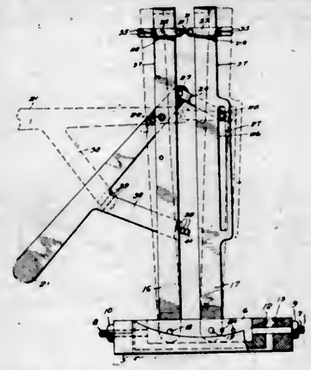
1,374,582. TOOL-SHARPENING GAGE. BENJAMIN KLEIN, Chicago, Ill. Filed June 18, 1920. Serial No. 389,822. 5 Claims. (Cl. 51—220.)



1. A tool sharpening gage comprising a single piece of metal bent to provide a pair of tool holding jaws and a flat surface for sliding along and engaging only the top of an abrading surface and of sufficient area to invariably maintain a fixed angle between the jaws and the abrading surface regardless of the extent of wear of the tool during the sharpening process.

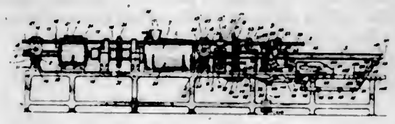
1,374,583. DEVICE FOR FACILITATING THE LUBRICATION OF VEHICLE-SPRINGS. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Oct. 27, 1920. Serial No. 419,786. 8 Claims. (Cl. 81—3.)

1. A device of the character described comprising a ground engaging base, a pair of confronting standards pivotally connected at their lower ends to the base and supported in a substantially upright position thereby, manually operable means for moving the standards toward each other and wedge like spring engaging teeth mounted upon



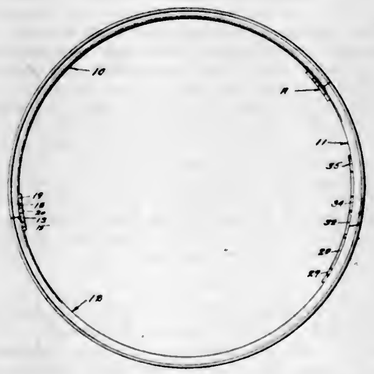
the upper ends of the standards adapted to enter between the leaves of a spring to force the same apart.

1,374,584. APPARATUS FOR MAKING RUBBER PRODUCTS. HARLEY C. KNECHT, Akron, Ohio. Filed May 7, 1918. Serial No. 233,046. 24 Claims. (Cl. 18—14.)



1. In apparatus for making inner tubes, the combination of a suitable frame; driving means; a forming pole; means for conveying the latter along said frame; means for receiving pieces of rubber from the mills or mixers and progressively feeding and compressing the same longitudinally of said pole; and means providing moving surfaces between which said pole is conveyed, a space being provided intermediately said pole and said moving surfaces, said rubber being compressed into said space and molded upon said pole.

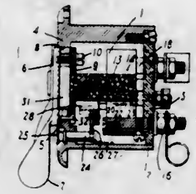
1,374,585. DEMOUNTABLE AUTOMOBILE-RIM. MIKE KOHL, North Milwaukee, and WILLIAM RENNER, Milwaukee, Wis.; said Renner assignor to Kohl. Filed July 22, 1920. Serial No. 398,163. 2 Claims. (Cl. 301—33.)



1. A rim including relatively movable sections, each of said sections having a slot formed therein, a lever pivoted to one of said sections, an arm connecting said lever and the other of said sections, and a plate on said lever and engageable in said slots when the lever is at its limit of pivotal movement in one direction.

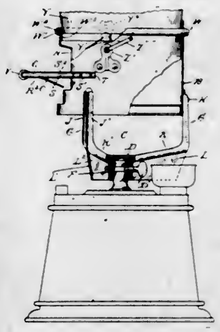
2. A rim including a plurality of sections, a plate rigid with one section, a lug on said plate engageable in an opening in the other section, and a pin on said plate coacting with said lug to maintain the sections relatively connected by said plate.

1,374,586. ELECTRICAL SYSTEM FOR AUTOMOBILES. BAYARD D. KUNKLE, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1915, Serial No. 20,758. Renewed Sept. 9, 1920. Serial No. 409,287. 9 Claims. (Cl. 290—35.)



9. An electrical system comprising a dynamo-electric machine, a storage battery, an ignition circuit, switching mechanism for connecting the storage battery and the ignition circuit to the dynamo-electric machine, means for connecting the ignition circuit for energization independently of the dynamo-electric machine, and interlocking means for preventing simultaneous operation of the switching mechanism and the said means to respectively perform their aforesaid functions.

1,374,587. FIREPOT. CHARLES R. LAMBERT, Detroit, Mich., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 4, 1918. Serial No. 232,445. 14 Claims. (Cl. 126—236.)

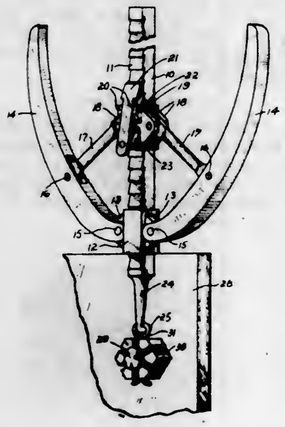


3. In a fire pot, the combination with a main body portion and a tank or other supporting member, of a sheet metal standard mounted on said tank and having integral upwardly extending arms secured to said body portion, said body portion being provided with a shield and a sheet metal support for said shield, said support being bent to form a central cylindrical portion connected to the channel shaped arms.

1,374,588. EXTRACTING-TOOL. GEORGE E. LEGENDRE, Bridgeport, Conn. Filed May 3, 1920. Serial No. 378,621. 6 Claims. (Cl. 29—86.1.)

1. An extracting tool of the character described, comprising a guide block and a slide block, a ratchet bar

carried by said blocks, gripping levers pivotally secured to the guide block and having operative connection with

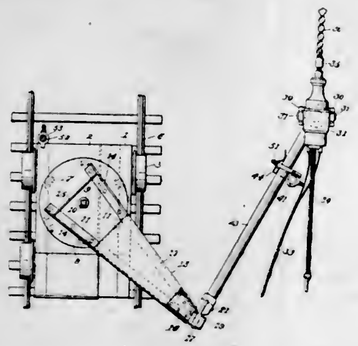


the slide block, and means carried by the slide block and adapted to engage the ratchet bar.

1,374,589. PROCESS OF TREATING FATTY ACIDS AND GLYCERIDS THEREOF. HAROLD A. LEVEY, New Orleans, La. Filed Sept. 19, 1916. Serial No. 121,016. 7 Claims. (Cl. 87—12.)

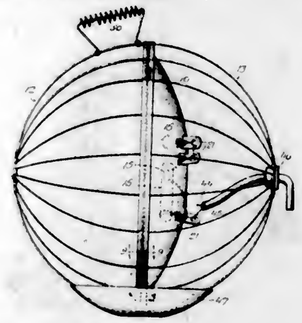
1. The process of dehydrogenating fatty oils which consists in subjecting the oil to the action of gas in the presence of a catalytic material intimately mingled with the oil under treatment and at a temperature in excess of that at which hydrogenation is affected under the same conditions by passage of hydrogen.

1,374,590. DRILLING-MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 7, 1917. Serial No. 160,517. 5 Claims. (Cl. 255—51.)



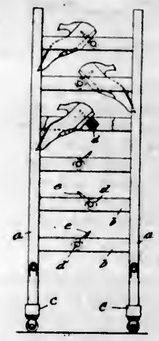
1. The combination of a truck, an arm mounted upon said truck rigid against vertical movement relative thereto and adapted to pivotal movement about a vertical axis thereon, an extension arm universally pivotally mounted at the free end of said horizontal arm, and a drill universally pivotally mounted at the free end of said extension arm.

1,374,591. ELECTRIC HEATER. EDWIN N. LIGHTFOOT, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 9, 1920. Serial No. 350,384. 20 Claims. (Cl. 219—34.)



13. An electric heater comprising a resistance element, a support therefor, a protecting cage within which the resistance element is positioned, and a weighted curved base for the cage whereby the cage is restored to normal position if accidentally tipped to one side or the other.

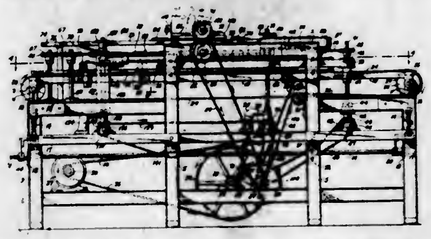
1,374,592. SHOE-RACK. CHARLES E. LOCKE, Haverhill, Mass. Filed Apr. 23, 1920. Serial No. 376,101. 1 Claim. (Cl. 211—14.)



A rack for supporting shoes while on the last comprising a pair of upright end supports, a series of horizontally disposed bars mounted in said supports and arranged in vertically spaced relation alternately at opposite sides of the middle vertical plane of the end supports, and a single series of equally spaced, parallel, last-supporting pins mounted in each bar, the pins of each series being somewhat inclined from the vertical toward the opposite side of the rack from that to which the bar thereof is nearer, so that each pin of one bar is extended in a line which passes adjacent and beneath the bar next above it, each pin being constructed to enter the jack-pin receiving aperture of a last and being located at a distance from the next adjacent pin sufficient to hold the shoes on the lasts out of contact, in close proximity and in a downwardly inclined, inverted position.

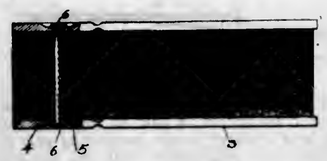
1,374,593. MACHINE FOR CLOSING AND SEALING ENVELOPS. TRUED B. LUNDIN, Philadelphia, Pa., assignor to American Machinery Co., Inc., Philadelphia, Pa., a Corporation of Delaware. Filed June 8, 1920. Serial No. 387,363. 37 Claims. (Cl. 120—6.)

37. The combination of a main frame, a supplemental frame, means operative to raise and lower the supplemental frame relatively to the main frame, means to receive and advance an envelop having an open end and a closing flap therefor, means carried by the main frame to fold said flap downwardly and inwardly to close the open top of the envelop during the travel thereof, the second named means including a belt to receive the bottom of the envelop and to support the same during the travel thereof, means carried by the supplemental frame for supporting and guiding said belt, two oppositely disposed belts arranged in spaced relation to each other to receive



and guide said envelop and the contents thereof between them, means carried by the supplemental frame for supporting and guiding said belts, two oppositely disposed belts adapted to receive said envelop between them above the contents of the envelop and to advance the same, means carried by the main frame for supporting and guiding the last named belts, actuating means for said belts, and two fixed bars carried by the main frame above said belts for receiving and guiding the open end portion of said envelop during the travel thereof.

1,374,594. PAPER-BINDER. CHARLES F. MCBEE, Athens, Ohio. Filed June 4, 1917. Serial No. 172,677. 1 Claim. (Cl. 281—25.)



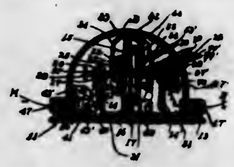
In a paper binder, a binder post formed in two longitudinally divided sections having flat abutting axial faces provided with interengaging teeth for holding the post sections together, each section having its inner end formed with a V-terminal and its outer end with a thin headed terminal overhanging the companion section, said post being of uniform diameter throughout the interengagement of said post sections.

1,374,595. TOWEL-HOLDER. HOWARD C. MCDONALD, Buffalo, N. Y. Filed Sept. 11, 1919. Serial No. 323,119. 8 Claims. (Cl. 45—32.)



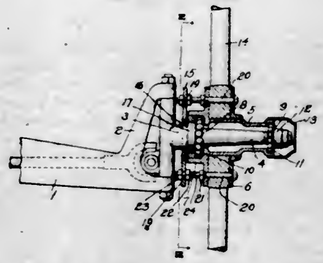
1. A towel holder comprising a support, a clamp for securing a plurality of towels together, and locking means which lock the towels in said clamp and also lock said clamp on said support while permitting said clamp to move to different positions on said support, whereby unauthorized removal of the towels is prevented.

1,374,596. THERMAL CIRCUIT-CLOSER. ROBERT L. MCELROY, New York, N. Y. Filed Feb. 19, 1918. Serial No. 218,137. 15 Claims. (Cl. 200—140.)



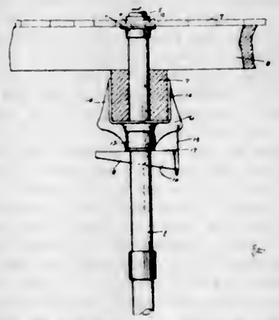
1. In an apparatus of the class described, the combination of a pair of sensitive means differently susceptible to pressure; and a movable means unequally and oppositely influenced by said sensitive means to open one circuit and close another.

1,374,597. FRONT HUB AND SPINDLE CONSTRUCTION FOR AUTOMOBILES. BURTON MCPHILLIAMY, Vandergrift, Pa. Filed May 29, 1919. Serial No. 300,595. 3 Claims. (Cl. 301—111.)



1. The combination with a spindle having a flange thereon between its ends, of a wheel on one end of the spindle having annular plates at its hubs, bolts passing through said plates, and nuts on the bolts serving to hold the plates in position, and an apertured plate carried at the ends of said bolts and surrounding the other end of the spindle, whereby the flange is positioned between said plate and the wheel.

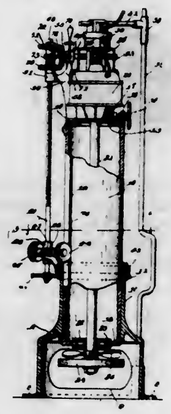
1,374,598. CONCRETE SALVAGE JACK-HEAD. CHARLES M. MARKHAM, Milwaukee, Wis. Filed Nov. 15, 1919. Serial No. 338,411. 3 Claims. (Cl. 248—2.)



3. A concrete salvage jack head, comprising a standard having a slot, a wedge shaped key entering said slot, a

head member carried on said tubular standard member and resting on said key, and a pair of threaded flanged caps for connecting additional standard members to the upper extremity of said standard.

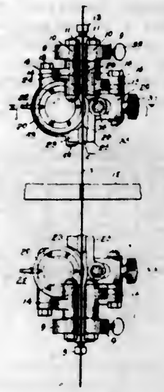
1,374,599. MACHINE CONSTRUCTION. VERNON B. MOORE, Asheville, N. C. Filed Oct. 24, 1919. Serial No. 332,989. 5 Claims. (Cl. 51—43.)



3. A machine construction comprising a support having an upstanding cylindrical portion, an annular gear surrounding and fixed to said cylindrical portion, a cylindrical body arranged to be translated and turned about its axis in said cylindrical portion of the support and having a vertical groove in its outer side and a rack in said groove, a ring mounted to turn about the cylindrical portion of the support and having a bracket, a shaft turning in the bracket and having a spur gear intermeshed with said annular gear and also having a worm, a shaft turning in the bracket and having a worm gear intermeshed with said worm and also having a spur gear that enters the groove in the cylindrical body and engages the rack, a motor supported on and movable with the cylindrical body and having a shaft extending downwardly in the body, said motor and its shaft being laterally adjustable, means to adjustably fix the motor and shaft, and a driving connection between the motor and the first-named shaft.

4. A machine construction comprising a support having an upstanding cylindrical portion, an annular gear surrounding and fixed to said cylindrical portion, a cylindrical body arranged to be translated and turned about its axis in said cylindrical portion of the support and having a vertical groove in its outer side and a rack in said grove, a ring mounted to turn about the cylindrical portion of the support and having a bracket, a shaft mounted in the bracket and having a spur gear intermeshed with said annular gear and also having a worm, a shaft turning in the bracket and having a worm gear intermeshed with said worm and also having a spur gear that enters the groove in the cylindrical body and engages the rack, an electric motor supported on and movable with the cylindrical body and also movable laterally of said body, means to adjustably fix the motor relatively to the body; the armature shaft of the motor extending downwardly and upwardly therefrom, a worm on the upper portion thereof, current collecting means above the motor and movable vertically with the same, a bearing on the cylindrical body, and loosely receiving the first-named shaft, miter gears spaced apart and connected together and splined on the first-named shaft, means to adjust and adjustably fix said miter gears, and a shaft having a worm gear intermeshed with the worm on the armature shaft and also having a miter gear adapted to be alternately engaged by the first-named miter gears.

1,374,600. BAND-SAW GUIDE. EDGAR NEWELL, Irwin, Pa. Filed Aug. 8, 1918. Serial No. 248,973. 5 Claims. (Cl. 143—160.)



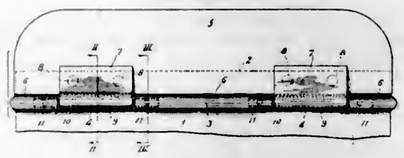
1. In a saw guide, a pair of crossed arms pivoted to swing in planes at right angles to the path of movement of the saw, two pairs of saw embracing jaws carried by said arm, and a guide disk for the back of said saw extending between said pairs of jaws.

1,374,601. GUN-MAGAZINE ATTACHMENT. WILLIAM OSBORNE, Auburn, Nebr. Filed Sept. 25, 1920. Serial No. 412,831. 6 Claims. (Cl. 42—49.)



1. In an attachment for a gun magazine having a tubular form in cross-section, a pair of tubes for containing cartridges, and resilient means connecting said tubes for pressing them into engagement with the magazine when disposed upon the opposed sides thereof.

1,374,602. HINGE CONSTRUCTION. EMIL PANEK, Cleveland, Ohio, assignor to The Globe Machine & Stamping Co., Cleveland, Ohio. Filed Feb. 27, 1919. Serial No. 279,503. 1 Claim. (Cl. 16—11.)

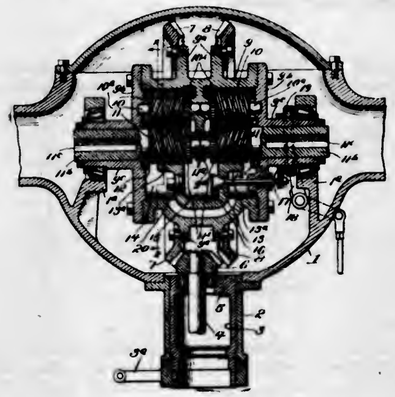


A hinge construction comprising a pair of members one fashioned with concavo-convex beads alined along and spaced from one edge also separated from each other by a slot and the other with a hollow extremity conforming in shape to said beads, and adapted to be accommodated by said slot for securing said members in such position.

1,374,603. FLUID-DIFFERENTIAL. CHARLES H. PATTEN, Allentown, Pa. Filed Nov. 20, 1919. Serial No. 339,333. 10 Claims. (Cl. 74—99.)

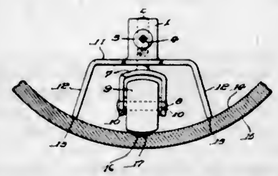
1. In a device for transmitting motion, a fluid-tight casing or body mounted for rotation having two fluid

chambers therein, a pair of intermeshing screw pump members carried within said body and adapted to pump



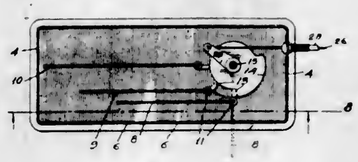
liquid from one chamber to the other, one of said members being coaxial with said casing and the other arranged off center.

1,374,604. SMOOTHING-TOOL. KARL R. PETERS, Philadelphia, Pa. Filed June 19, 1920. Serial No. 390,282. 5 Claims. (Cl. 80—1.)



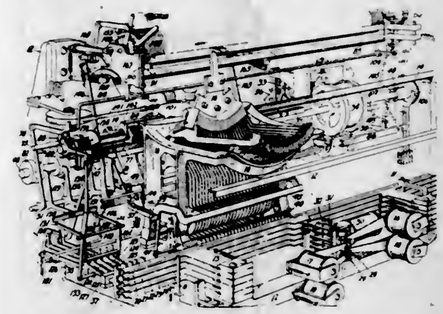
2. In a tool adapted for use in repairing cylinder walls of engines, the combination of means for compressing and packing repairing material in place in the cylinder wall, means for adjustably supporting said first mentioned means in operative position, means connected to said supporting means and provided with guide members adapted to contact with the surface of the cylinder wall at independent points, said first mentioned means being adjustable to contact at another point whereby said points of contact lie in the circle of curvature of said surface and a handle on said supporting means.

1,374,605. VEHICLE DIRECTION-INDICATOR. JULES PEYRÉ, San Francisco, Calif. Filed Nov. 25, 1919. Serial No. 340,677. 5 Claims. (Cl. 116—53.)



1. A vehicle direction indicator comprising a housing mounted upon one side of a vehicle; a plurality of signals pivotally mounted within the housing in longitudinally parallel position; a cam mounted within said housing and adapted to successively extend said signals laterally to displayed position, succeeding signals being arranged to superpose the preceding signals; and means for operating said cam from the dash of the vehicle.

1,374,606. PRINTING TELEGRAPHY. HARRY PFANNENSTIEHL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 8, 1917. Serial No. 173,546. 51 Claims. (Cl. 178—27.)

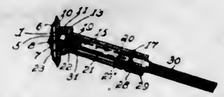


1. In a line printing telegraph receiver the combination of a stationary platen, a type basket comprising a plurality of type bars movable transversely with respect to said platen, and permutation means selectively controlled by line current impulses for controlling the operation of the type bars for line printing.

1,374,607. SULFATED OIL. FRANK L. RANDEL, New York, N. Y. Filed Dec. 11, 1919. Serial No. 344,136. 2 Claims. (Cl. 87—6.)

1. The process of making a sulfated oil which comprises mixing a fatty or oily material of fatty nature with sulfuric acid under vacuum producing conditions.

1,374,608. POWER-ACTUATED SAFETY-RAZOR. WILLIAM T. ROSE, Waterloo, Iowa. Filed June 19, 1919. Serial No. 305,305. 1 Claim. (Cl. 30—12.)



In a device of the character described, a double-edged blade, a holder therefor comprising bodies between which the blade is removably mounted for limited reciprocation with both cutting edges exposed, one body having a hollow shank with a widened head provided with a rectangular hollow bearing, said blade having a vertically slotted rectangular shank removably mounted thereon and mounted to reciprocate in and being of less length than the widened hollow of said head, a shaft mounted rotatably and removably in said hollow shank and having a removable head provided with a crank-pin, the latter seated movably in the slot in the blade-shank, and a flexible rotatable operating shaft detachably connected to said first-mentioned shaft and adapted to be rotated by power-driven means.

1,374,609. CLOTHESLINE-POLE. DAYTON I. SCHELL, Jackson, Mich. Filed Mar. 15, 1920. Serial No. 365,827. 2 Claims. (Cl. 68—12.)

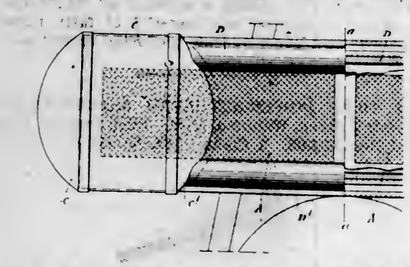
1. A clothes-line support comprising an inner tube having a longitudinal rib, an outer tube slidably fitted upon the inner tube and having an offset conforming to and engaging the rib on the inner tube, a bracket secured upon the offset of the outer tube and comprising a base member bearing against said offset, wings extending laterally from the said base member and conforming to and bearing against the outer tube and the offset thereon, and lugs projecting outwardly from the lower portion of the base

member, a latch carried by said lugs and adapted to engage in the tubes to prevent relative endwise movement of the



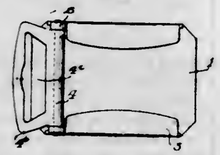
same, and line-engaging members carried by the upper end of the outer tube.

1,374,610. APPARATUS FOR REGULATING THE EFFECTIVE SURFACE OF THE RADIATORS OF AEROPLANE-ENGINES. JEAN JULES MARIE ANTOINE EUGÈNE SCHNEIDER, Paris, France. Filed Feb. 28, 1920. Serial No. 362,122. 5 Claims. (Cl. 244—31.)



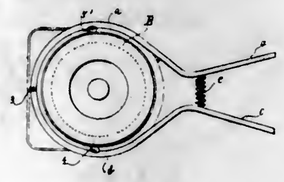
1. In an apparatus for regulating the effective surface of the radiators of aeroplane engines, the combination of a radiator body, a guide thereon, a stream-lined sheath slidably mounted on said guide to inclose the radiator body, and means for actuating said sheath in either direction on said guide to inclose the radiator body more or less.

1,374,611. BELT-BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 9, 1920. Serial No. 409,103. 1 Claim. (Cl. 24—191.)
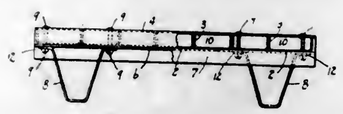


A belt buckle comprising a front plate, side flanges having inwardly turned portions and also portions extending rearwardly beyond said inwardly turned portion at one end of each of said inwardly turned portions, said rearwardly extending portions having arch shaped inwardly turned flanges, the ends of the latter nearest the side flanges merging into said side flanges, a pivot pin connecting said rearwardly extending portions, and a pivoted clamp supported on said pin and abutting said arch shaped inwardly turned flanges.

1,374,612. FRUIT-JAR OPENER. CHARLES F. STANDISH, Greene, N. Y. Filed Apr. 12, 1920. Serial No. 373,429. 1 Claim. (Cl. 81—8.1.)



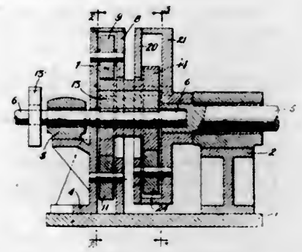
A jar opener comprising a pair of semi-circular shaped jaws pivoted to each other at one end, the other end of each jaw terminating in a handle, pointed opening members integrally formed with the jaw members and projecting inwardly, the said pointed opening members being substantially diametrically opposed, and a spring member mounted between the handles and normally separating the same.

1,374,613. PLATFORM. WILLIAM STUEBING, Jr., Cincinnati, Ohio. Filed Nov. 5, 1920. Serial No. 421,995. 2 Claims. (Cl. 248—41.)



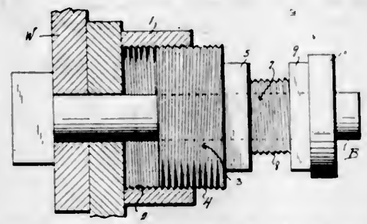
2. In a platform of the character described, a multiplicity of channel iron plates arranged to form compartments and making a face for said platform, a steel binding for each side edge of said channel irons, supports for holding the platform face elevated, arranged at each side edge thereof, and bolt and nut connections for holding said supports, said channel irons and said binding strips together and in alinement to form a rigid construction.

1,374,614. SPEED-CHANGE DEVICE. THOMAS R. STURGEON, New York, N. Y. Filed Oct. 2, 1919. Serial No. 327,991. 12 Claims. (Cl. 74—35.)



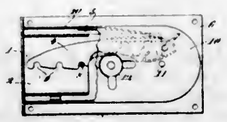
1. In a speed change device, the combination of a driving member, a double cam having projections in the form of substantial arcs of circles on each end thereof and operated by said member, a plurality of stationary rollers engaged by one end of said cam and a plurality of rollers on a driven member operated by the other end of said cam.

1,374,615. BOLT. JAMES J. TALTY, Harriman, Pa. Filed Aug. 11, 1920. Serial No. 402,757. 5 Claims. (Cl. 85—1.)



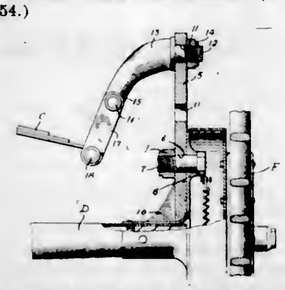
1. A holding-on bolt of the character described comprising a tubular member, a second tubular member threaded therein, a third tubular member threaded in the second tubular member, the threaded connection between the second tubular member and the first tubular member and with the third tubular member being reversed, a shank insertible through the assembled tubular members, and a holding plate adapted to engage an extended end portion of the shank.

1,374,616. LOCK. ANDOR TARJAN, Vienna, Austria. Filed July 14, 1920. Serial No. 396,327. 3 Claims. (Cl. 70—75.)



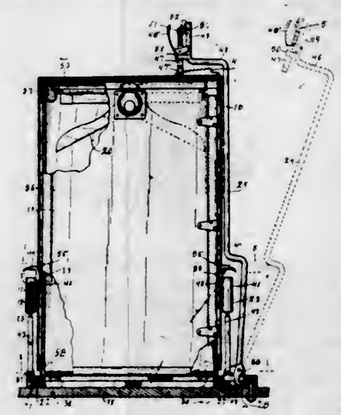
1. In a lock the combination of tumblers, a hollow bolt inclosing the tumblers, the outer portion of which bolt being formed by bending a sheet metal piece so as to constitute a casing which is completely closed except at its inner end, and means for stiffening the hollow casing at such open end, said means serving also as a fence for cooperation with the tumblers to lock the bolt in position at each revolution of the key.

1,374,617. EXTENSION-PERCH FOR SPRINGS. CYRUS W. VAN BRUNT and LORIN EDWARDS, Durand, Wis. Filed June 3, 1920. Serial No. 386,317. 4 Claims. (Cl. 267—54.)



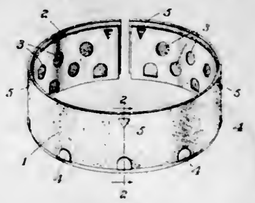
4. The combination with a vehicle including a body, a supporting spring therefor, and a brake casing, the casing having an opening formed therein, of an extension perch for the spring comprising an elongated vertically disposed plate, a removable bolt arranged to extend through the opening formed in the brake housing, and an opening formed in the plate, said plate extending above the brake housing and having a plurality of openings formed therein, an arcuately curved horn, a reduced shank formed on said horn and arranged to detachably fit in either one of said openings, a transversely extending apertured boss formed on the inner end of said horn, a shackle pivotally secured to said boss, and means pivotally connecting the inner end of said shackle to the spring.

1,374,618. AUTOMOBILE TRUNK-HOLDER. GEORGE HENRY WHEARY, Racine, Wis. Filed Nov. 11, 1916. Serial No. 130,709. 7 Claims. (Cl. 224—29.)



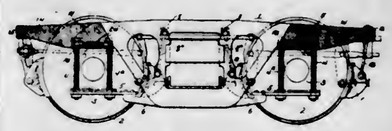
2. An automobile trunk holder, comprising a base member having means for attachment to the running board of an automobile, a trunk holding member pivotally connected to the base member, a trunk positioned on the holding member in upright position, a top cover mounted on the trunk and provided with a lock engaging means, and an upstanding locking member carried by the holding member and lockingly engaging the lock engaging means of the cover and the base member.

1,374,619. KINDLER-HOLDER. FRED E. WHITE, Gardner, Mass., assignor to Central Oil & Gas Stove Co., Gardner, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1920. Serial No. 374,173. 2 Claims. (Cl. 67—69.)



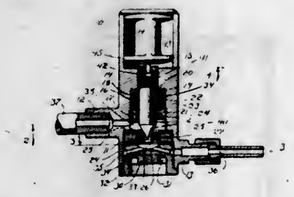
1. In combination, a kindler of sheet form within an oil bowl, and means secured to the kindler and engaging the bottom of the oil bowl for spacing the kindler from the bottom of said oil bowl.

1,374,620. CAR-TRUCK. JOHN C. WHITRIDGE, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Feb. 3, 1920. Serial No. 355,920. 5 Claims. (Cl. 188—209.)



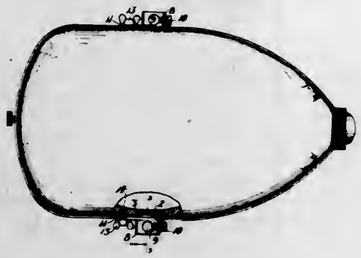
1. The combination with a truck side frame and a journal box, of a brake-shoe hanger bracket mounted on said side frame and provided at its free end with a lateral arm to receive a brake-shoe hanger, and journal box bolts securing said bracket to the side frame.

1,374,621. LOCK-CONTROLLED FUEL-FEED FOR CARBURETERS. ADELBERT R. WICKER, Denver, Colo., assignor, by mesne assignments, to Joseph Hermann, Cincinnati, Ohio. Filed Feb. 28, 1919. Serial No. 279,787. 8 Claims. (Cl. 251—6.)



1. A valve mechanism of the character described, comprising a casing partitioned by a transverse wall, provided with a threaded bore, said wall separating said casing into an upper and a lower housing, the lower housing comprising a partially threaded packing compartment, a valve seating compartment and an intermediate fluid holding compartment, an apertured guide member threaded to engage the screw threads of said packing compartment and forming both an adjustable lower gland for said packing compartment, and a top closure for said fluid compartment, packing material mounted above said gland, a ported valve seat closing the outer end of said fluid compartment, an inlet for said fluid compatrment above said valve seat, and an outlet leading from said casing below said valve seat, a valve stem extending through said gland and said packing and having a screw threaded head engaging with said threaded wall bore, a plug valve carried by said valve stem coacting with said valve seat, and means operable from said upper housing for rotating said valve stem and thereby moving said valve toward or away from its seat, substantially as described.

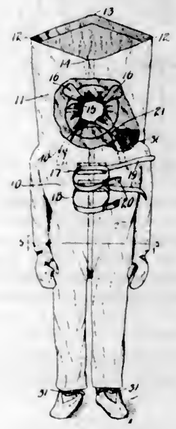
1,374,622. HEADLIGHT-MOUNTING. WILLIAM G. WOOD, Berkeley, Calif., assignor to Berkeley Light Corporation, San Francisco, Calif, a Corporation of Nevada. Continuation of application Serial No. 248,303, filed Aug. 5, 1918. This application filed Oct. 2, 1919. Serial No. 327,908. 4 Claims. (Cl. 240—57.)



1. The combination with the casing of a headlight and a fork by which it is supported, of a pivotal mounting on each side of the casing by which the casing is supported and upon which the casing is turnably mounted, a perforated lug on each supporting member for the reception of the fork, a radially extending arm on each member exteriorly of the casing, a segmental slot formed in the outer end of each arm, and a clamping screw extending through each segmental slot and carried by the casing.

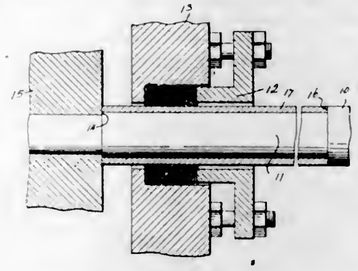
1,374,623. LIFE-PRESERVER. OSCAR A. YOUNGREN and JAMES A. WATT, New York, N. Y., assignors to National Life Preserver Company, New York, N. Y., a Corporation of Wyoming. Filed June 14, 1918. Serial No. 239,966. 3 Claims. (Cl. 9—20.)

1. A one-piece garment of water-proof material for use as a life-preserver formed with an extended cape-like portion surrounding its upper end having an opening through which entrance to and exit from said garment may made, said cape-like portion also embodying in its rear portion an elastic neck-piece with an opening for the passage of the head of the wearer, and straps secured to the



front of the garment below the normal position of the neck-piece and arranged to form loops to surround and secure the folded ends of the cape portion when brought down in front of the wearer and folded together, substantially as set forth.

1,374,624. METHOD OF MAKING AND REPAIRING PISTON-RODS. ALVA E. ZUMWALT, Caney, Kans. Filed Jan. 24, 1920. Serial No. 353,903. 2 Claims. (Cl. 29—156.5.)

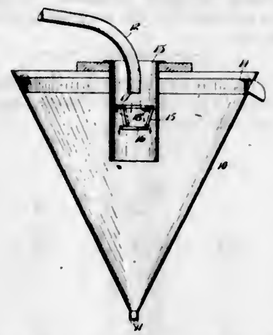


1. A method of repairing worn reciprocating rods passing through bearings consisting in reducing the worn portion of the rod to a diameter less than its normal diameter and placing thereover a bushing of the same length as the reduced portion of the rod and having an exterior diameter the same as the normal exterior diameter of the rod before it is reduced.

1,374,625. FEED-SPOUT BARRIER. CHARLES ALLEN, El Paso, Tex. Filed July 23, 1918. Serial No. 246,366. 1 Claim. (Cl. 210—58.)

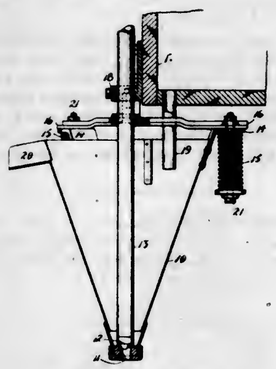
In a separator for solids suspended in liquid, the combination with a settling tank, having an overflow periphery for the lighter product and a discharge orifice at the bottom for the heavier product, an open-ended feed spout centrally disposed at the top of the tank and extended an appreciable distance below the level of the contents of the tank, means for introducing a feed stream into said feed spout, and a barrier arranged in said feed spout

and normally submerged, said barrier comprising a ring and a disk spaced vertically apart, the ring being of



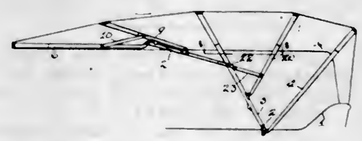
greater diameter than the disk, said ring and baffle being interconnected, and lugs on the interior of the feed spout to removably receive and support the ring.

1,374,626. AUTOMATIC SAND-TRAP. CHARLES ALLEN, El Paso, Tex. Filed Apr. 28, 1920. Serial No. 377,345. 4 Claims. (Cl. 83—82.)



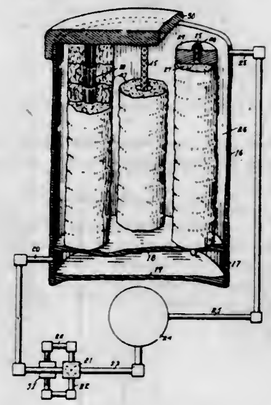
1. An automatic separator of the type mentioned, comprising a tank having an overflow and a bottom discharge orifice, a hanger, springs carried by the hanger at three points, flanges at the sides and top of the tank resting upon said springs to support the tank, a valve carried on a fixed support and normally closing the discharge orifice, whereby the accumulation of solids in the tank causes the latter to be moved downwardly compressing the springs and thereby unseating the valve and means for adjusting said springs to vary the operation of the tank and valve.

1,374,627. VEHICLE-TOP SUPPORT. CHARLES R. ALLEN, Ashtabula, Ohio, assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio, a Corporation of Ohio. Filed May 9, 1914. Serial No. 837,356. 22 Claims. (Cl. 296—116.)



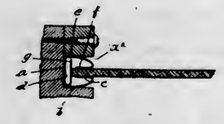
1. In a vehicle top, the combination of a main bow pivotally attached to the vehicle body, the lower end of said bow extending below and to the rear of the point of such attachment in the raised position of the top, a rear bow pivotally attached to such extending end of said main bow, an articulated auxiliary bow pivotally attached to said main bow, and a supplemental bow attached to the rear portion of said auxiliary bow, said auxiliary and supplemental bows being adapted to interengage when said top is in raised position so as to form a rigid truss.

1,374,628. APPARATUS FOR DYEING TOPS, YARN, &c. ASA ASHWORTH, Salamanca, N. Y. Filed Oct. 15, 1920. Serial No. 417,081. 7 Claims. (Cl. 8—19.)



1. An apparatus for dyeing tops and yarn comprising a dyeing vat, a perforate tube vertically mounted in said dyeing vat, means for forcing fluid dye or mordant through said tube, and a series of collectively collapsible tubular yarn spools mounted upon said tube.

1,374,629. WINDOW-GLASS CHANNEL. EDWIN W. M. BAILEY, Amesbury, Mass. Filed May 29, 1920. Serial No. 385,197. 15 Claims. (Cl. 20—52.)

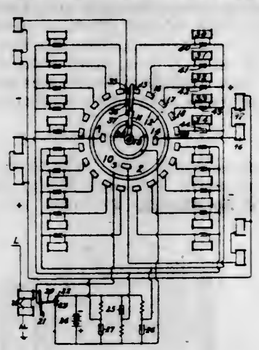


1. In combination with a window casing having a window-glass-receiving groove, guiding means in the groove arranged to engage each side of the glass and comprising a longitudinally extended strip of resilient sheet metal disposed at one side of the groove and transversely extending outwardly from the bottom thereof with its outer portion out of contact with said side to permit said portion to yield toward said side, the outer edge-portion of the strip being reversely extended inwardly in divergent relation to its outwardly extending portion, to provide a yielding guiding and engaging portion for the adjacent surface of the glass.

1,374,630. SELECTING MECHANISM. ERWIN P. BANCROFT, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1917. Serial No. 181,557. 6 Claims. (Cl. 178—33.)

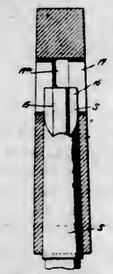
1. Selecting mechanism comprising a current impulse distributer, a plurality of selecting magnets connected thereto, a plurality of condensers of which at least one is

normally charged, a relay for connecting said condensers through said distributer to said selecting magnets to effect



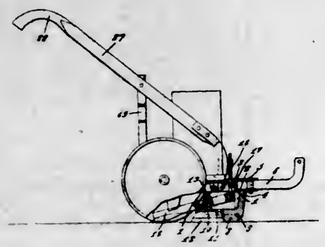
their operation, and a condenser associated with each selecting magnet for prolonging the flow of current therethrough.

1,374,631. DRILL TANG AND SOCKET. SIDNEY MERRITT BELLAIRSR, Baltimore, Md., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1919. Serial No. 346,287. 4 Claims. (Cl. 279—103.)



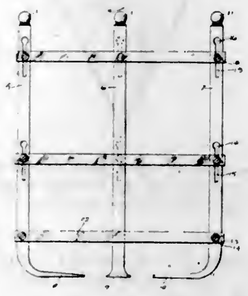
1. In combination, a conical drill socket having a transverse slot formed therein and grooves formed in the walls of said slot, and a conical drill shank disposed within said socket and including a tang projecting into said slot, said tang comprising a circular portion adapted to fit within said grooves, and arms extending from the circular portion at diametrically opposite points and tapered in width from their point of connection with the circular portion, whereby the arms are permitted to contact with the sides of the slot at points adjacent the circular portion only.

1,374,632. PLANTER. JOHN BLUE, Laurinburg, N. C. Filed Oct. 11, 1918. Serial No. 257,724. 3 Claims. (Cl. 111—85.)



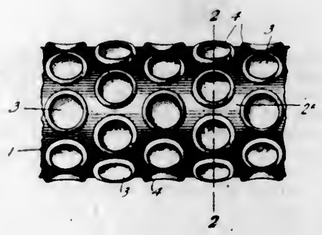
2. In a planter a recessed head, smoothing wings diverging therefrom, a shoe integral with the head and spaced from the wings, arms connecting the rear portion of the shoe with the upper rear portions of the wings, covering blades pivotally connected to the arms, and yielding means carried by the head for pressing the blades against the soil.

1,374,633. CORNER-STAND. JOHN E. BOYLE, Waterbury, Conn. Filed Apr. 24, 1920. Serial No. 376,249. 1 Claim. (Cl. 45—31.)



A corner stand comprising three legs provided at their lower ends with supporting feet, said legs each formed with a plurality of vertical slots opening at their upper ends into clearance holes, triangular shelves through which said legs extend, said shelves formed with depending flanges, and screws extending through said flanges and through said slots, and nuts applied to the inner ends of said screws.

1,374,634. TIRE-TUBE. GEORGE G. CARD, Columbus, Ohio, assignor to The Columbus Climax Rubber Company, Columbus, Ohio. Filed Mar. 30, 1918. Serial No. 225,812. 5 Claims. (Cl. 152—13.)

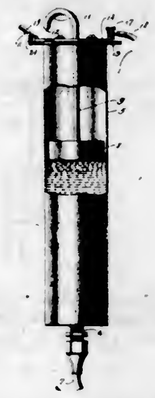


2. An inner tube for pneumatic tires, having inwardly extending hollow nodes, each node being compressible outwardly within the open end portion thereof and against the casing of the tire, during the inflation of the tube, to form a vacuum trough within itself and between the tube and the casing.

1,374,635. AUTOMATIC CUT-OFF FOR GASOLENE-ENGINES. ARTHUR J. CLEVELAND and CECIL I. CLEVELAND, Salina, Kans. Filed Nov. 18, 1919. Serial No. 338,971. 4 Claims. (Cl. 200—84.)

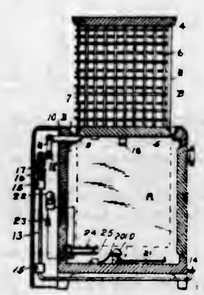
4. An attachment of the class described comprising a float chamber having means for connecting it with a circulating oil system for maintenance of a supply of oil to the chamber, a float in the chamber, a circuit closer

carried by the float, a contact in position for engagement by the circuit closer in response to its movement with the



float, and permanently located means movable into and out of position to prevent engagement of the circuit closer with the contact at times.

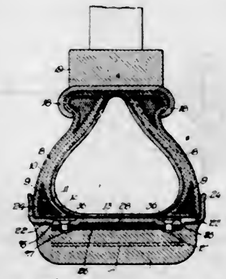
1,374,636. PROTECTIVE MECHANISM. JAMES F. COLLINS, Swissvale borough, Pa. Filed Aug. 30, 1920. Serial No. 407,030. 8 Claims. (Cl. 109—1.)



1. In a protective device for the purposes described, the combination of a safe provided with an opening in its top, a counter board adapted when in its raised position to substantially occupy said opening, a closure for said opening above said counter board and connected to the latter so as to move in unison therewith, means for securing said counter board in its raised position, and means for releasing said securing means whereby said counter board automatically drops by gravity within said safe and said closure seals said opening.

1,374,637. TIRE. DE LEON DAVIS, Richmond, Va., assignor to Unity Tire & Mfg. Co., a Corporation of Delaware. Filed Oct. 5, 1917. Serial No. 194,843. 1 Claim. (Cl. 152—19.)

A tire tread plate adapted to lie crosswise of and upon the periphery of a tire, said plate having its end portions formed to engage beads on the opposite sides respectively of the tire, the plate having a stamped-up projection adapted to interfit with a corresponding recess on the peripheral



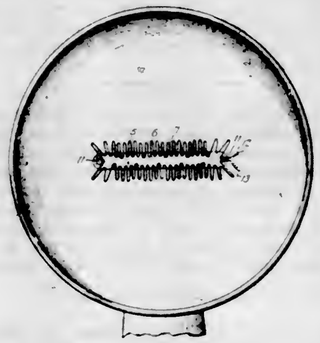
surface of the tire, and means for holding the plate upon the tire tread.

1,374,638. HAND POWER-DRIVEN BAND-SAW. CHARLES A. DE CEW and WILLIAM F. HIRST, Cedar Rapids, Iowa. Filed Jan. 6, 1920. Serial No. 349,750. 2 Claims. (Cl. 143—17.)



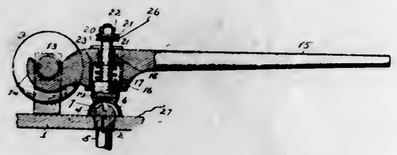
1. A hand guided power-driven band saw comprising an elongated frame having pulleys rotatably mounted at the opposite ends thereof, an endless saw band passing around said pulleys, a driven shaft rotatably mounted radially of and adjacent to one side of one of said pulleys, a plurality of pinions slidably mounted for longitudinal movement upon said shaft, a plurality of ring gears carried by said side of said one pulley, and means to retain any desired one of said pinions in mesh with one of said ring gears and to retain the remaining pinions out of mesh with the remaining ring gears.

1,374,639. ELECTRIC HEATER. HENRY DICKS, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 3, 1919. Serial No. 335,807. 5 Claims. (Cl. 219—74.)



1. An electric heater comprising a transparent insulating base and a resistor mounted thereon.

1,374,640. WELDING. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed July 21, 1920. Serial No. 397,915. 10 Claims. (Cl. 219—4.)



1. Welding means comprising a pressure-applying member, an electromagnetic structure constituting connecting means for said member, and means for including parts to be welded in an electric circuit to effect a welded union of said parts while under pressure of said pressure applying means.

10. The herein described method of welding a cap or closure to a boiler sheet, consisting in placing a cap or closure over an opening in the boiler sheet, connecting pressure means magnetically to the boiler sheet, exerting pressure with said means on the cap or closure and simultaneously including said cap or closure and boiler sheet in an electrical welding circuit.

1,374,641. LAWN-EDGE TRIMMER. JOHN EHNE, Milwaukee, Wis., assignor to ARTHUR J. EHNE, Milwaukee, Wis. Filed Jan. 5, 1921. Serial No. 435,178. 1 Claim. (Cl. 97—28.)



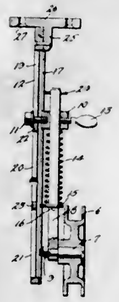
A lawn edge trimmer, comprising a cutter having a substantially vertical blade with a forwardly inclined cutting blade with a laterally extending lower edge terminating in a bearing edge, such laterally extending portion forming a cutting edge in continuation of the cutting edge of the vertical blade portion, said bearing edge being adapted to bear against the edge of a cement sidewalk below the surface of the ground, an arched guide extending from the blade and adapted to bear on the sidewalk, the continuous cutting edge of the cutter thus extending from above the sod to the extreme lower part of the cutter at an incline that will tend to lift the trimmer from the ground and continuing along the laterally extending portion and terminating at the bearing edge where the cutter engages the sidewalk below the surface of the ground, and a handle on the cutter for pushing it forwardly and pressing it downwardly.

1,374,642. PROCESS OF MAKING CARBONIZING COMPOUNDS. JAMES FARRELL, Cleveland, Ohio. Filed May 5, 1920. Serial No. 378,988. 8 Claims. (Cl. 148—30.)

1. The process of making carbonizing compounds consisting in, removing substantially all the moisture from carbonaceous material by vacuum process and then impregnating the material with an energizing agent under fifty (50) to one hundred and fifty (150) pounds pressure and a temperature of from 100° to 300° Fahrenheit.

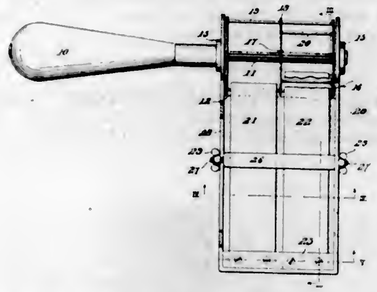
1,374,643. BELT-TIGHTENER. MANY FISCHBACH, New York, N. Y. Filed Mar. 25, 1920. Serial No. 368,736. 4 Claims. (Cl. 64—5.)

1. A belt tightener comprising a slotted standard, a block adapted to engage said standard, a clamping bolt adapted to pass through any of said slots and engage said block for clamping the block to the standard, a sliding



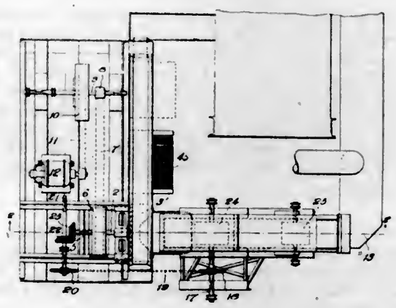
bar carried by said block, a pulley rotatably connected with said bar adjacent one end, and means for locking said bar in any adjusted position in respect to the block.

1,374,644. NOISE-MAKER. MARTIN FOLKUSH, Milwaukee, Wis. Filed Apr. 10, 1920. Serial No. 372,821. 5 Claims. (Cl. 46—46.)



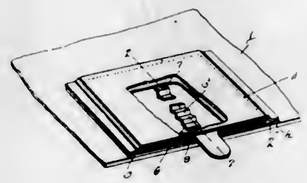
1. A noise maker comprising a shaft, a casing journaled thereon, a frame having spaced end supported posts around the sides theerof and rigidly secured to said shaft, one half of said frame being provided with double the number of posts that the other half has and separate sounding boards for the halves of the frame carried by said casing.

1,374,645. TAILING-SEPARATOR. EMLEN A. FRANKLIN, Fort Collins, Colo. Filed Apr. 10, 1919. Serial No. 289,174. 11 Claims. (Cl. 83—82.)



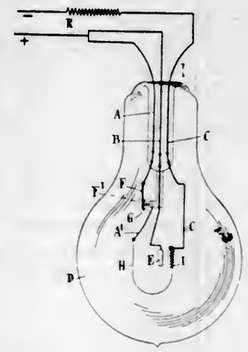
1. In a separator for separating vegetable tailings including roots, leaves, grass, and earthy material, a laterally extending substantially closed casing, means within and at one side of said casing to project such vegetable tailings toward the opposite side of said casing, and means associated with said casing to project a water screen penetrable by relatively heavy particles across the path of said tailings to remove from said path material which is comparatively light, such as leaves and grass.

1,374,646. MEMORANDUM ATTACHMENT FOR ALBUMS. ULYSSES VICTORIA GARRED, Lexington, Ky. Filed Mar. 24, 1920. Serial No. 368,452. 5 Claims. (Cl. 40—18.)



1. A device of the type described, including a pad adapted to be connected to a photograph-album or like instrumentality along opposite edges thereof, a memorandum tablet, a picture element, and means for manipulating said memorandum tablet, and means of connection between said memorandum tablet and said first-referred to element, said pad and picture element being adapted to incase the other elements.

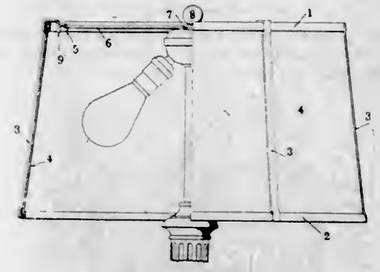
1,374,647. ARC INCANDESCENT ELECTRIC LAMP. EDWARD ALFRED GIMINGHAM, London, England. Filed Oct. 15, 1915. Serial No. 56,016. 6 Claims. (Cl. 176—1.)



1. In an electric arc incandescent lamp a bulb containing an inert gas, a heater adapted to ionize the gas, an electrode in parallel with one end of the heater, and a second electrode surrounding a portion of the heater.

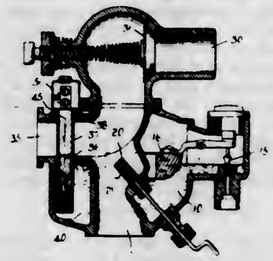
1,374,648. LAMP-SHADE. EDWIN F. GUTH, St. Louis, Mo., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 14, 1919. Serial No. 337,966. 1 Claim. (Cl. 240—108.)

A light shade comprising upper and lower members connected by spaced strips, the upper ends of the strips being bent inward to form shade supports, said shade



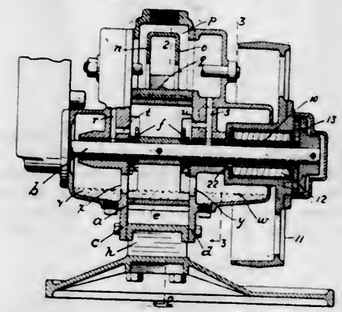
support portions having additional bends to form two spaced downwardly turned projections.

1,374,649. CARBURETER. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y., assignor to The Cutler-Hammer Mfg. Co., a Corporation of Wisconsin. Filed Oct. 23, 1913. Serial No. 796,761. 20 Claims. (Cl. 219—38.)



6. A carbureter comprising a mixing chamber, a wick arranged to transfer liquid fuel by capillary action to said chamber and means acting directly upon the wick for accelerating the vaporization of the fuel in the mixing chamber.

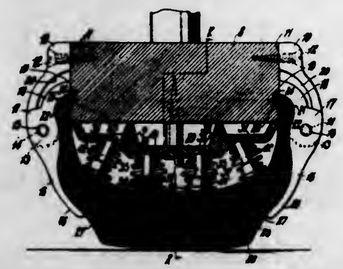
1,374,650. VACUUM-PUMP. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 3, 1920. Serial No. 355,999. 4 Claims. (Cl. 230—30.)



1. In a vacuum pump of the sliding vane type designed for producing a specific degree of exhaustion, the combination with a rotor and sliding vanes, of a body having a discharge port extending through such arc of the body as

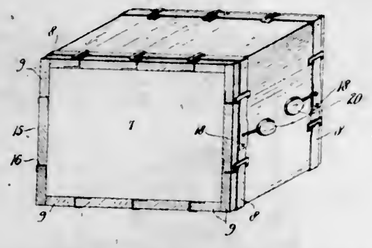
to be opened by a vane passing over it at substantially the time that the pressures on the two sides of the vane are equal.

1,374,651. RESILIENT VEHICLE-WHEEL. JAMES B. HANLEY, Philadelphia, Pa. Filed Feb. 27, 1920. Serial No. 361,855. 6 Claims. (Cl. 152—8.)



5. The combination in a wheel of a felly; a tire shoe having beads extending adjacent the opposite sides of the felly; latches being pivotally mounted between their ends providing fingers for engagement with the outer portions of said beads of the tire shoe; arms for engagement with the side portions of the tire shoe between the beads and the tread; a rim on said felly within said tire shoe; and spring-pressed plungers slidably connected to said rim and adapted to bear against the inner surface of said tire shoe, certain of said plungers tending to press said tire shoe against the arms of said latches whereby the latter are swung to move the fingers in clamping engagement with the beads of the tire shoe; substantially as described.

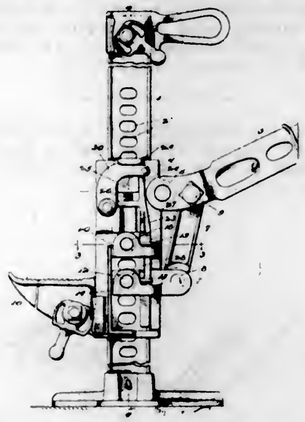
1,374,652. MEANS FOR SECURING AND SEALING PACKING-CASES AND THE LIKE. THOMAS HENRY HANSEN, South Yarra, near Melbourne, Victoria, Australia, assignor of one-half to John Davey, Murrumbeena, Victoria, Australia. Filed Dec. 2, 1919. Serial No. 342,000. 4 Claims. (Cl. 217—66.)



1. A merchandise case protective unit comprising an L-shaped metallic member the arms of which are flat, one of said arms being adapted to be driven edgewise into a case, the other arm having an opening for the reception of a securing device such as a nail or the like and also having a slot for the reception of a case encompassing band.

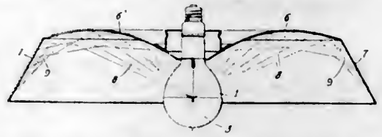
1,374,653. LIFTING-JACK. PHILIP J. HARRAH, Bloomfield, Ind. Filed Oct. 4, 1920. Serial No. 414,458. 3 Claims. (Cl. 254—114.)

1. A lifting jack comprising a standard having a plurality of perforations extending therethrough, a pair of runners movable on said standard, the upper runner substantially inclosing and forming a bearing for the lower runner, a pin carried by each of said runners for alternately entering said perforations to constitute a fixed



stop while the other runner is advancing, a lever fulcrumed to one of said runners, and a pitman connecting said lever with the other runner.

1,374,654. LIGHTING-FIXTURE. WARD HARRISON, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed June 25, 1917. Serial No. 176,698. 6 Claims. (Cl. 240—92.)



1. A lighting fixture comprising a concentrated artificial light source inclosed in a bulb and a reflector disposed below said light source, conforming to and closely engaging the lower portion of said bulb and adapted to project upwardly the light rays below the horizontal, and a larger reflector located above the said source having a main body portion concaved downwardly, and a downwardly extending marginal portion adapted to intercept substantially all of the specular or skin reflection from the main portion and to recover the direct rays issuing from the source within the angle between the outer edge of the said main portion and the upper edge of the lower reflector.

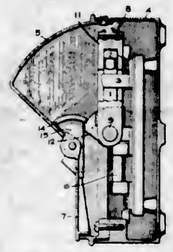
1,374,655. FLUSH-VALVE. WILLIAM L. HARROUN, Ellisburg, N. Y. Filed Mar. 12, 1920. Serial No. 365,200. 2 Claims. (Cl. 4—5.)



1. The combination with the flush pipe and the hollow flush valve, of a disk having a diameter smaller than the

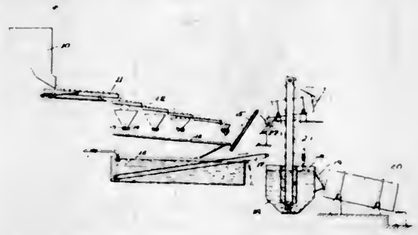
normal bore of the flush pipe, a rod passing through the flush valve, its lower end extending below the flush valve and adjustably secured to said disk, its upper end threaded and extending above the top of the flush valve, and a sleeve mounted on top of the flush valve and receiving the upper end of said rod.

1,374,656. ELECTRIC SWITCH. CHARLES H. HILL, SCHENECTADY, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 5, 1916. Serial No. 95,596. 2 Claims. (Cl. 200—50.)



1. In an apparatus of the class described, a switch, a casing inclosing said switch, a lever adapted to be operated to open and close said switch, a lug mounted to move with said lever and provided with two opposed convexly curved faces, a cover hinged to said casing, and a curved flange on said cover arranged so that one end thereof abuts one of the faces of said lug when the switch is closed to prevent opening said cover, said lug being mounted to move out of abutting engagement when the switch is opened to permit the movement of said flange over the other face of said lug whereby the switch cannot be closed when the cover is open.

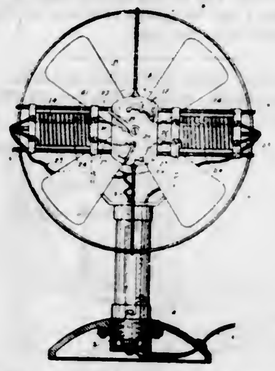
1,374,657. METHOD OF SEPARATING FRUIT-PITS AND THEIR KERNELS. STANLEY HILLER, San Francisco, Calif. Filed Sept. 4, 1919. Serial No. 321,554. 2 Claims. (Cl. 83—85.)



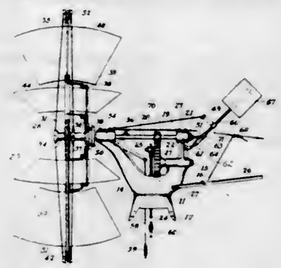
1. A process of separating the kernels and shells of fruit pits and the like, which consists in placing the cracked shells with the kernels in fresh water and thereafter placing the shells and kernels in brine whereby a complete gravity separation of the shells and kernels will be produced.

1,374,658. ELECTRIC FAN. GEORGE H. HOHNSBEEN, Minneapolis, Minn., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Filed Feb. 24, 1919. Serial No. 278,747. 7 Claims. (Cl. 219—42.)

1. The combination, with an electric fan and a guard for the blades thereof and a standard adapted for mounting on a base or for wall or ceiling use, of rods mounted in parallel relation on said guard and extending across the same from side to side, blocks of insulating material supported by said rods on each side of the center of said guard, resistance wires wound on said blocks and in circuit with the fan motor, and a switch for controlling the circuit through said wires.

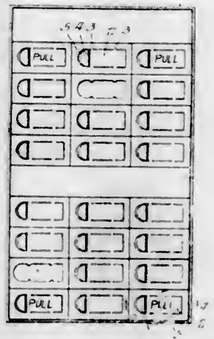


1,374,659. WINDMILL. DAVID R. HOLMES and NERA H. CAMPBELL, Hutchinson, Kans. Filed Sept. 10, 1919. Serial No. 322,788. 5 Claims. (Cl. 170—65.)



1. A windmill including a wheel comprising an outer rim, a central hub, spokes connecting the rim and hub, an inner rim between the outer rim and hub and concentric therewith, the inner rim consisting of segmental sections having their extremities turned toward the hub and attached in encircling pairs to the spokes respectively, and sails supported from the rims between the spokes.

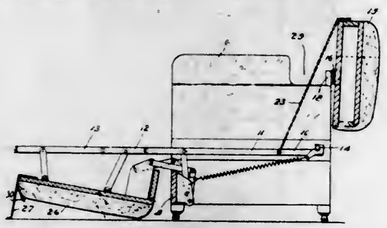
1,374,660. SALES DEVICE. JOSEPH W. HOODWIN, Chicago, Ill. Filed Apr. 9, 1920. Serial No. 372,568. 3 Claims. (Cl. 46—56.)



1. A sales device comprising a card, sections of said card being defined by cut lines extending through the card,

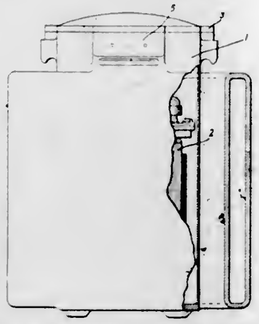
upcut sections of the card attaching the section to the card, each section being transversely scored to form a ridge at the back so the end of the section may be swung upwardly to form a tab by means of which the section can be readily pulled from the card.

1,374,661. BACK FOR BED-DAVENPORTS. FRANCIS A. HUBBERT, Seattle, Wash. Filed Oct. 23, 1920. Serial No. 418,925. 2 Claims. (Cl. 5—51.)



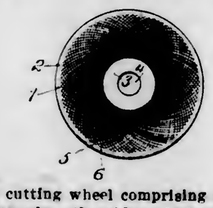
1. A bed davenport comprising two side arms supported in relatively rigid spaced apart relation, a sectional bed-frame pivoted at one end to said side arms and arranged to fold therebetween, a reversible back member having each end hinged at substantially midway between its two edges to said side arms, and a flexible tie member connecting said bed frame with the lower edge of said back member for moving said back member when said bed frame is folded.

1,374,662. TANK FOR ELECTRIC APPARATUS. SVEND E. JOHANNESEN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 30, 1919. Serial No. 293,775. 2 Claims. (Cl. 257—191.)



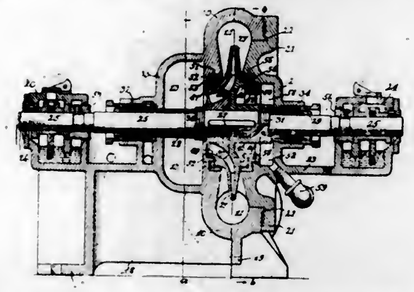
1. A tank for electrical apparatus comprising a body portion and a hollow horizontally arcuate receptacle partially enveloping the body portion and connected therewith, arranged to open into said body portion at the ends of the arc.

1,374,663. PIPE-CUTTING WHEEL. WALTER P. JOYCE and HENNING A. FELDT, Kansas City, Mo. Filed Jan. 17, 1920. Serial No. 352,171. 3 Claims. (Cl. 81—187.)



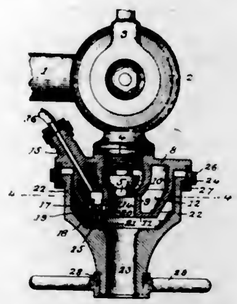
1. A pipe cutting wheel comprising a circular disk having a cutting edge, the sides of the disk being provided with two sets of file teeth, which cross each other and face in opposite directions and which terminate inside the periphery of the disk.

1,374,664. CENTRIFUGAL PUMP. CHARLES V. KERR, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Original application filed Sept. 10, 1917, Serial No. 190,524. Divided and this application filed Dec. 22, 1919. Serial No. 346,610. 5 Claims. (Cl. 253—200.)



1. In a centrifugal pump, the combination with a casing, of a rotary impeller having annular flanges at each end, said casing having cylindrical shoulders spaced from said impeller flanges, and floating annular members coacting with said flanges and peripherally shouldered to coact with said shoulders on said casing, as specified.

1,374,665. MEASURING-FAUCET. STANLEY H. KNIGHT, Chicago, Ill. Filed May 14, 1920. Serial No. 381,266. 6 Claims. (Cl. 225—26.)



1. In a dispensing faucet, the combination of a main supply controlling faucet, a measuring chamber associated with said faucet, a secondary valve controlling the inlet to and the outlet from said measuring chamber, and a receiving hopper having limited independent movement in relation to said faucet and measuring chamber, said hopper having operative engagement with said secondary valve.

1,374,666. PROCESS FOR THE ACETYLATION OF HYDROCARBONS AND SUBSEQUENT RECOVERY OF THE PRODUCTS OF THE REACTION. GEORGE T. KOCH and ALBERT L. STALLKAMP, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa., a Corporation of Ohio. Filed Nov. 4, 1920. Serial No. 426,165. 9 Claims. (Cl. 23—24.)

1. The herein described method of esterifying chlor-hydrocarbons of the paraffin series, which consists in heating the chlor-hydrocarbons with an alkali acetate in the presence of activated carbon as a catalyzing material,

whereby the decomposition of amyl chlorid is prevented, and the yield of amyl acetate increased.

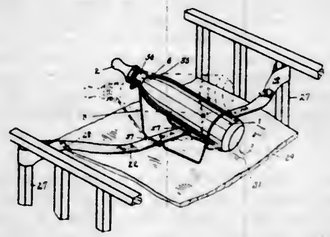
2. The herein described method of esterifying chlor-hydrocarbons of the paraffin series, which consists in heating the chlor-hydrocarbons with an alkali acetate, in the presence of batchite.

3. The herein described method of esterifying chlor-hydrocarbons of the paraffin series, which consists in heating the chlor-hydrocarbons with an alkali acetate, and with lower cuts from a previous esterification, in the presence of activated carbon.

4. The herein described method of esterifying chlor-hydrocarbons of the paraffin series, which consists in heating the chlor-hydrocarbons to from 250° to 450° F., with an alkali acetate, in the presence of batchite as a catalyzer.

5. The herein described method of esterifying chlor-hydrocarbons of the paraffin series which consists in heating the chlor-hydrocarbons to from 250° to 450° F., with an alkali acetate, in the presence of batchite as a catalyzer, and maintaining a pressure of from 200 to 225 pounds per square inch.

1,374,667. FRAME FOR NURSING-BOTTLES. LOUIE T. LA PAUGH, Utica, N. Y., assignor of one-fourth to Joseph W. Shea and one-fourth to Elisabeth C. Shea, Utica, N. Y. Filed Mar. 22, 1920. Serial No. 367,664. 1 Claim. (Cl. 248—20.)



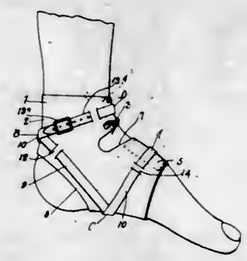
In a frame for nursing bottles, a yielding neck portion adapted to detachably engage the neck of a bottle, a circular portion for supporting the body of said bottle, horizontal portions for holding said bottle elevated, guideways formed in said horizontal portions for the insertion of a tape, and adapted to form a fulcrum, whereby the bottle will tilt automatically into such position as will keep the nipple of the bottle elevated.

1,374,668. CORD FABRIC. GEORGE W. LINDLEY, Philadelphia, Pa. Filed Jan. 20, 1920. Serial No. 352,655. 2 Claims. (Cl. 66—4.)



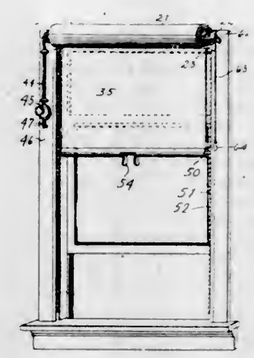
1. A non-elastic cord fabric suitable for use in the manufacture of pneumatic tires, said fabric being of closely and evenly spaced longitudinally running warps consisting of parallel cords held parallel to each other and incorporated into a fabric by transversely running threads relatively widely spaced apart and each knitted into a series of enchained loops, each of which loops is thrown around and firmly grips a cord.

1,374,669. FOOT-SUPPORTER. HARRY H. MCCLELLAN, Dayton, Ohio. Filed Feb. 7, 1920. Serial No. 356,872. 8 Claims. (Cl. 128—166.)



1. In a foot support, the combination with a jacket adapted to fit closely a portion of the foot, of a plurality of bands coöperating with said jacket, secured relative to each other above the instep and wound about the foot in opposite directions, said bands intersecting at places and adjustable at their ends relative to each other, whereby variable pressure may be exerted on the foot from different directions at said points of intersection.

1,374,670. ELECTRIC METALLIC WINDOW-CURTAIN. CLARENCE R. MAXWELL, Los Angeles, Calif. Filed Aug. 30, 1920. Serial No. 407,005. 9 Claims. (Cl. 189—56.)

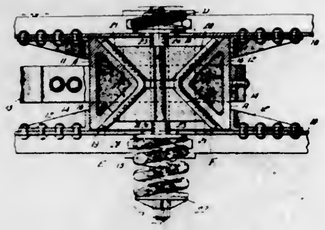


1. In a fireproof window curtain, the combination with a porcelain housing and hangers, of a shade roller journaled in the hangers, and an asbestos curtain fixed to the roller.

1,374,671. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 30, 1919. Serial No. 334,569. 3 Claims. (Cl. 213—64.)

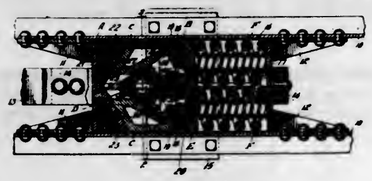
1. In a friction shock absorbing mechanism, the combination with a friction element having a pair of diverging faces, of wearing inserts having portions extending along both of said diverging faces and thereby held against movement lengthwise of either of said faces, other friction elements having faces inclined to correspond with the diverging faces of said first named friction element, said inclined faces engaging said inserts, and spring means for yieldingly resisting relative movement between

said friction elements, each of said inserts being in the form of a bent bar and the opposed faces of the friction



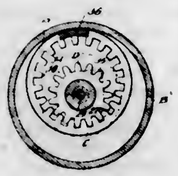
elements between which said inserts are interposed having a series of parallelly extending grooves to conform to the cross sections of and receive the bars.

1,374,672. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 6, 1919. Serial No. 336,054. 3 Claims. (Cl. 213—64.)



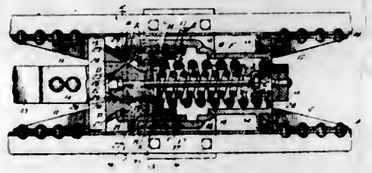
1. In a friction shock absorbing mechanism, the combination with a friction shell having outwardly diverging friction surfaces, of a member opposed to said shell and movable relatively toward and from the same, said member having diverging friction surfaces extending in the opposite direction to those of the shell, a pair of friction shoes having inclined end friction surfaces coöperable with said friction surfaces of the shell and member, said shoes being forced inwardly toward each other upon the relative approach of said shell and member, said shoes having also inner wedge surfaces normally disposed outwardly beyond the shell and facing toward the latter, a wedge also normally disposed outwardly beyond the shell and interposed between and coöperating with said wedge surfaces of the shoes, a spring resistance on the opposite side of said shell to that on which said wedge is located, and means for transmitting pressure from said wedge to said spring resistance.

1,374,673. SAFETY DEVICE FOR CAR-DOOR-OPERATING MECHANISMS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 6, 1919. Serial No. 336,055. 3 Claims. (Cl. 105—311.)



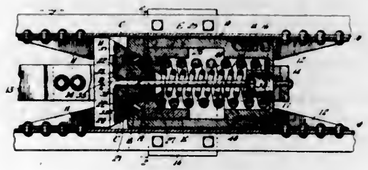
1. In a safety device for door operating mechanism, the combination with two relatively rotatable clutch members, one of which is adapted to be directly operated and the other is adapted to rotate simultaneously with a shaft of the mechanism, of an internal gear loosely rotatably mounted between said clutch members and having a lug rigid therewith, a coöperating lug on one of said clutch members, said lugs limiting the amount of relative rotation between said internal gear and the clutch member carrying the lug, and a pinion coöperable with said internal gear and rigidly mounted on the other of said clutch members.

1,374,674. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 15, 1919. Serial No. 338,182. 8 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with a friction shell and a spring resistance; of a set of friction shoes directly coöperable with said shell; a second set of friction shoes directly coöperable with said first set of shoes, said sets of shoes having coöperating friction surfaces extending parallel to the axis of the shell, both sets being located at the same end of the shell; and spreader means directly coöperable with both sets of shoes to force them outwardly against the shell.

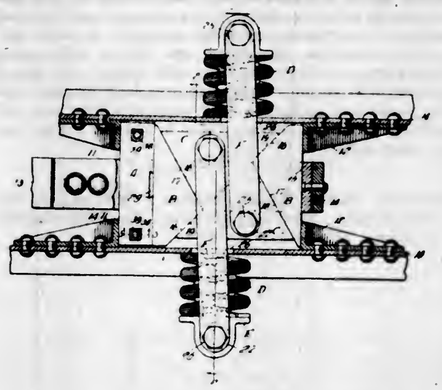
1,374,675. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 28, 1919. Serial No. 341,011. 4 Claims. (Cl. 213—64.)



4. In a friction shock absorbing mechanism, the combination with a friction shell having interior friction surfaces at its outer end; of a pair of laterally spaced friction elements coöperable with said friction surfaces; an intermediate friction element coöperable with said first named friction elements, means for yieldingly resisting movement of all of said friction elements inwardly of the shell; and a retaining element connected at one of its ends to the inner end of the shell and having means at its other end for directly engaging all of said friction elements and limiting the outward movements thereof with respect to the friction shell.

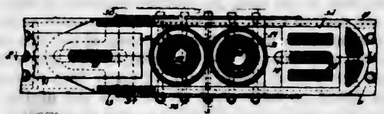
1,374,676. RAILWAY DRAFT-RIGGING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 4, 1920. Serial No. 356,344. 3 Claims. (Cl. 213—64.)

1. In a railway draft rigging, the combination with draft sills; of laterally arranged springs on the exterior of said sills, said springs having fixed supports at their inner ends; friction devices located between the sills; members bearing against the outer ends of said springs; and connections extending from some of the elements of



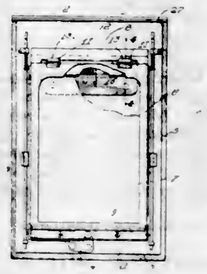
the friction devices to said members, said elements of the friction devices moving laterally away from the respective remote spring as the friction devices are actuated.

1,374,677. FRICTION DRAFT-RIGGING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 4, 1920. Serial No. 356,345. 9 Claims. (Cl. 213—64.)



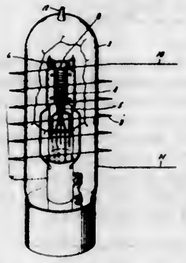
1. In a railway draft rigging, the combination with draft sills; of spring means disposed between the sills; friction devices entirely located outside of the sills and all the elements of which are longitudinally movable; and means operatively interposed between said friction devices and spring means so arranged that the spring means afford a yielding resistance for said friction devices.

1,374,678. PHOTOGRAPHIC CAMERA. WILLIAM A. PETERS, Chicago, Ill., assignor to International Patent Licensing Corporation, Chicago, Ill., a Corporation of Delaware. Substitute for application Serial No. 34,978, filed June 19, 1915. This application filed Oct. 13, 1919. Serial No. 330,680. 2 Claims. (Cl. 95—49.)



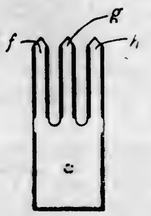
1. In a camera, the combination with a casing having a rear opening and a door pivoted to the casing and normally closing said opening, of a ground glass disposed within the casing and normally presenting a smooth forward surface substantially in the focal plane of the camera, links connecting the upper end of said ground glass with the casing: means connecting the lower end of the ground glass plate to the door movable in unison with the links for maintaining the glass parallel to its original position, and stop means associated with the door for limiting the opening movement thereof: said connecting means, links and stop means relatively so disposed that the opening of the door to its said limiting position will move the ground glass to present the roughened surface thereof substantially in the focal plane of the camera.

1,374,679. DEGASIFYING PROCESS. JOHN B. PRATT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,837. 4 Claims. (Cl. 250—27.)



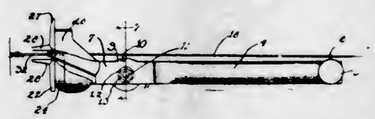
2. The method of removing gas from conducting bodies inclosed within an envelop which consists in subjecting said bodies to a high frequency variable magnetic field of sufficient strength to heat said bodies sufficiently to eliminate said gas.

1,374,680. FASTENING DEVICE. GRACE DAILEY PRESTON, Lakeside, Ohio, assignor of two-fifths to Arthur G. Smith, Elyria, Ohio. Filed July 30, 1919. Serial No. 314,292. 8 Claims. (Cl. 24—83.)



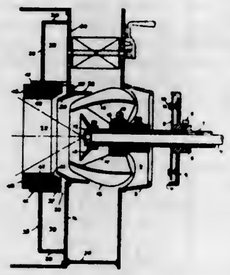
5. In fasteners for flexible material, a metal clasp consisting of overlapping wings joined together at one end, a plurality of serrations on the edges of said wings adapted to clasp the edge of said material therebetween, and a snap fastener on one wing of said clasp.

1,374,681. COMBINATION-TOOL. WILLIAM L. RAY, Oregon, Ill., assignor to Hattie H. Cartwright, Oregon, Ill. Filed Mar. 8, 1920. Serial No. 364,072. 11 Claims. (Cl. 140—123.6.)



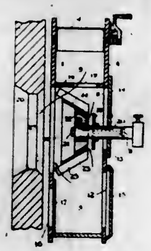
9. A wire splicer comprising a shank, a lug projecting from one end of the shank and adapted to receive a wire loop thereon, wire tightening means mounted on said shank intermediate its ends, and a slot in said lug arranged to allow a wire to pass through said loop.

1,374,682. OIL-BURNING-FURNACE FRONT. JOHN REID, New York, N. Y. Filed Mar. 8, 1920. Serial No. 364,342. 6 Claims. (Cl. 158—1.5.)



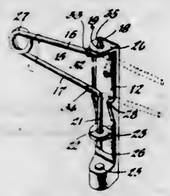
1. In a furnace front of the forced draft type having front and back plates distanced by intermediate walls and forming an air pocket having front and rear openings, a furnace lining attached to the back plate and forming air chambers having inlets through said back plate from said pocket and outlets leading to the firebox, and a burner suitably shut in from the outside to said air pocket and connected to a suitable oil feed and emitting a flame crossing the path of the air delivery.

1,374,683. OIL-BURNING-FURNACE FRONT. JOHN REID, New York, N. Y. Filed Apr. 17, 1920. Serial No. 374,770. 7 Claims. (Cl. 158—1.5.)



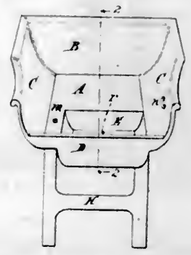
1. In an oil burning furnace front having front and back plates forming an air pocket, a closure for the front opening to said pocket, a burner supported from said closure and an air director in cone shell form flaring toward the flame opening and having outer and inner vanes forming passages in the direction of the outlet to the flame situated at the extremity of said shell.

1,374,684. BURGLAR-ALARM. JOHN C. RIECK, Buffalo, N. Y. Filed Mar. 17, 1920. Serial No. 366,557. 2 Claims. (Cl. 116—87.)



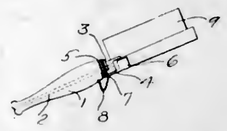
1. An alarm comprising a base, a trip-member hinged to said base to swing transversely thereof and consisting of an upper arm having a pintle, a lower trigger-arm movable toward and from said upper arm, and a spring-coil connecting the free ends of said arms, a holder for a detonating device arranged on said base, means on said base for holding said trigger-arm in its strained and retracted position, a perforated guide-lug arranged between said holding means and said holder and having a fastening screw passing through said base, said trigger-arm having an integral extension arranged substantially parallel with said pintle and guided in said perforated lug and said extension forming a hammer which is movable toward and from said holder.

1,374,685. BATH-CHAIR. GEORGE F. STEINKAMP, Cincinnati, Ohio. Filed July 10, 1919. Serial No. 309,925. 1 Claim. (Cl. 4—27.)



A bath-chair or bathing-seat comprising a horizontal body-portion or seat-proper having a shallow water cavity or basin at its fore end, an upright guard or water-shed at the rear end of the seat, an overflow-opening in said seat above the desired water-line, upright side guards or water-sheds extending forwardly from the ends of the rear guard at the opposite sides of the seat and having concaved or recessed arm-pits at their outer or upper fore corners, a shallow guard or water-shed at the fore end of the seat adjacent the said water cavity and with its opposite ends closed or making joint with the outer ends of said side guards below said arm-pits, and an independent open frame having legs adapted to support the bathing-seat above the floor so that the lower limbs and feet of the bather may be disposed outside the bathing-cabinet from the knee-pits down, substantially as shown and described.

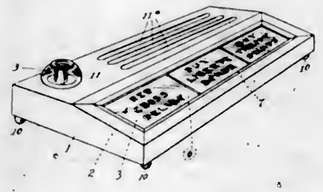
1,374,686. CIGARETTE HOLDER AND MOUTHPIECE. NEAL H. STEVENS, Katalla, Alaska. Filed May 21, 1920. Serial No. 383,220. 5 Claims. (Cl. 131—10.)



4. A cigarette holder and mouthpiece comprising a stem with a longitudinal vent therethrough, the forward end of the stem being cut down so as to leave an annular shoulder; means for releasably securing the cigarette paper to the forward end of the stem; a paper engaging ring slidingly mounted over the forward end of the stem; and means for permanently retaining said paper engaging ring upon the stem.

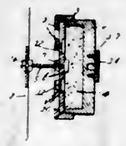
1,374,687. ADVERTISING NOVELTY. STEPHEN A. STILWELL, Lebanon, Ohio. Filed Nov. 13, 1918. Serial No. 262,382. 1 Claim. (Cl. 40—63.)

As an improved article of manufacture, an advertising novelty and writer's companion for desk use and display, comprising a rectangular shallow slab having a flat bottom and short corner-supporting ball-projections, a partially horizontal flat top or upper surface having a forwardly and downwardly inclined upper surface, an ink-well sunk in an orifice or cavity at one rear corner of said horizontal upper surface of the slab, a series of multiple of parallel longitudinal grooves or elongated shallow cavities provided in said horizontal upper surface to one side of said ink-well and adapted to contain pens and pencils, an elongated sight or opening provided in said inclined



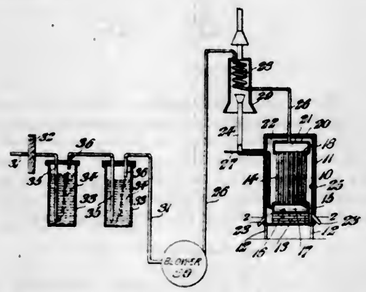
upper surface and adapted to accommodate one or more show-cards, and a removable sheet of glass in said sight to cover the said show-cards free for exchange-removal when desired, the whole being adapted for varied use on a flat-top table or desk, to display said show-cards and to serve the otherwise useful purpose of conveniently holding ink and pens for the occupant of the desk, substantially as herein shown and described.

1,374,688. TRANSMITTER. FRANK E. SUMMERS, Memphis, Mo. Filed May 12, 1919. Serial No. 296,530. 4 Claims. (Cl. 179—124.)



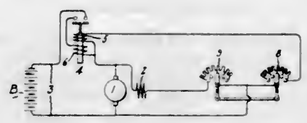
1. In a transmitter, the combination of a diaphragm, an insulating disk having connection with the diaphragm, a cap attached to the disk, a variable resistance substance carried within the cap, the cap having means for attachment to a second disk, and electrodes carried by the said disk, whereby a plurality of caps and disks may be assembled in tandem with the diaphragm.

1,374,689. AIR-CONDITIONING PROCESS AND APPARATUS. ANTHONY P. TORREY, North Glenside, Pa. Filed Apr. 27, 1920. Serial No. 376,980. 8 Claims. (Cl. 219—39.)



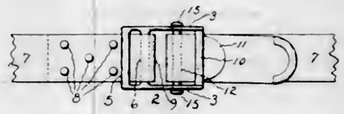
1. The process of conditioning air which consists in passing a body of air through a liquid, then subjecting said air to pressure, heating the compressed air at a relatively high temperature, and utilizing the air in its heated condition.

1,374,690. BATTERY-CHARGING SYSTEM. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 12, 1920. Serial No. 380,844. 4 Claims. (Cl. 171—314.)



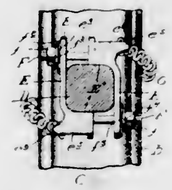
3. In combination, a battery charging circuit, a generator adapted to supply energy to said circuit, a switch controlling the connection between said generator and said circuit and having a coil connected across the terminals of said generator, a resistance in the circuit of said coil, a resistance in the field circuit of generator, and means for simultaneously adjusting said resistances to vary the voltage of said generator without substantially varying the current through said coil.

1,374,691. BUCKLE. GEORGE W. TROOP, New Britain, Conn., assignor to The North & Judd Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed Nov. 14, 1919. Serial No. 337,986. 1 Claim. (Cl. 24—196.)



A buckle comprising opposite parallel side members having transversely-registering longitudinally extending slots, a rear transverse bar rigid with the side members and the under surface of which is spaced from the lower surfaces of said side members and against which an end portion of a strap may fit, a second transverse bar connecting the side members, above the other transverse bar, and around which said strap-end portion may be looped, a front transverse bar connecting the side members and below the front ends of said registering slots, and a cylindrical roller to removably receive a loop at the opposite end portion of said strap, the terminal portions of the roller being located in said slots, the roller being bodily movable back of the front transverse bar and when the strap is pulled from its front end being adapted to press the free end of the strap against the rear edge of said front transverse bar.

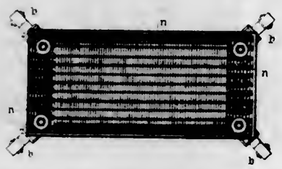
1,374,692. ANTISKIDDING DEVICE FOR TIRES. IRA ULFERS, Freeport, Ill. Continuation in part of application Serial No. 264,921, filed Dec. 2, 1918. This application filed May 24, 1919. Serial No. 299,599. 9 Claims. (Cl. 152—14.)



5. An anti-skidding device for tires comprising a clamp adapted to be detachably secured to a wheel spoke, said clamp having arms extending in opposite directions cir-

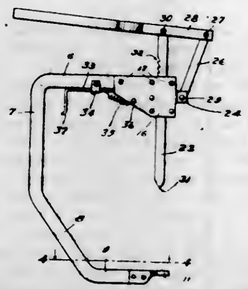
cumferentially from the wheel spoke, and oppositely facing, transversely and radially disposed hooks on said arms, said hooks having terminal open bills extending inwardly and radially toward the bases of the hooks and adapted to detachably engage the ends of a tire chain.

1,374,693. ELECTRIC HEATER HAVING HEATING FABRICS. FRANÇOIS EMILIEN BÉNÉDICT VERNET, Paris, France, assignor to Compagnie Generale de Travaux D'Eclairage et de Force (Anciens Etablissements Clémançon.) Paris, France, a Corporation of the French Republic. Filed May 11, 1920. Serial No. 380,562. 4 Claims. (Cl. 219—34.)



1. An electric heater, comprising heating fabrics arranged horizontally one above the other, a sheet metal casing inclosing said heating fabrics, means for putting into circuit an adjustable number of said heating fabrics, and means permitting the circulation of air upward successively through said heating fabrics.

1,374,694. VALVE-SPRING-COMPRESSING CLAMP. GEORGE P. WEBSTER, Seattle, Wash. Filed Jan. 2, 1920. Serial No. 348,865. Renewed Jan. 27, 1921. Serial No. 440,537. 3 Claims. (Cl. 29—86.3.)

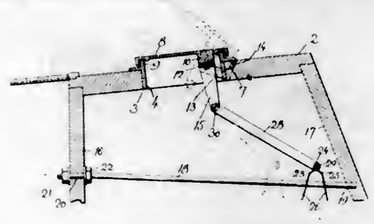


1. A valve spring compressing clamp comprising an open clamp frame having a straight top side, a forked foot on the lower extremity of said clamp frame, guiding means at the upper extremity of said clamp frame, a clamp bar guided by said guiding means for movement toward and away from said foot, said clamp bar having ratchet teeth formed in the rear edge thereof, a spring pressed pawl guided for movement along the lower edge of said straight top frame portion and arranged to yieldingly engage said teeth to prevent movement of said bar away from said foot member, a downwardly projecting finger hold on the outer end of said pawl and devices for moving said clamp bar within said clamp frame.

1,374,695. CATALYTIC OXIDATION OF FLUORENE. JOHN M. WEISS, New York, N. Y., and CHARLES R. DOWNS, Cliffside, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed Nov. 21, 1919. Serial No. 339,698. 2 Claims. (Cl. 23—24.)

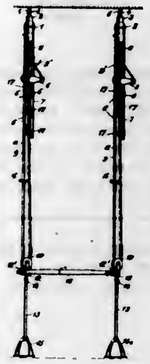
1. The method of producing fluorenone which comprises oxidizing fluorene in the vapor phase at a temperature from about 300° C. to 700° C. with an oxygen containing gas in the presence of a metallic oxid as a catalyst.

1,374,696. COWL-VENTILATOR FOR MOTOR-VEHICLES. GEORGE W. WELLS, Amesbury, Mass., assignor to Walker Wells Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Aug. 5, 1920. Serial No. 401,364. 3 Claims. (Cl. 268—17.)



1. In a cowl ventilator for motor vehicles, a cowl having a ventilating opening in the top thereof, a hinged cover for said opening, a stationary rod, a spring clamp bent centrally to provide an upper eye and having diverging spring branches provided with perforations engaging said rod, and adjustable along and automatically gripping said rod, a shaft carried in said eye, and an operating connection between said shaft and said cover to raise and lower the cover upon adjustment of the clamp and to support the cover in raised position.

1,374,697. EXERCISING APPARATUS. HEINRICH WERNDLI, Zurich, Switzerland. Filed Nov. 1, 1919. Serial No. 335,043. 8 Claims. (Cl. 46—69.)

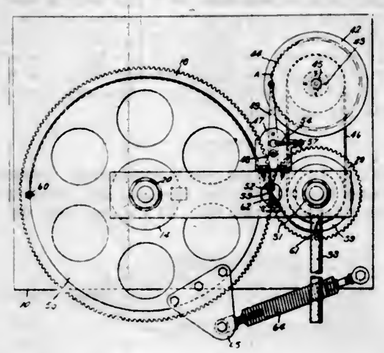


1. In an exercising apparatus, a pulley block arranged for overhead suspension, a strap connected at one end to said block and passing over the pulley of said block and provided with a stirrup-like handle on its free end and forming a loop, a pulley block suspended in said loop and stirrup like foot supports connected to the pulley block in said loop for supporting the person exercising.

1,374,698. APPARATUS FOR TESTING GEAR-WHEELS. JAMES WILKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 16, 1919. Serial No. 330,954. 7 Claims. (Cl. 73—51.)

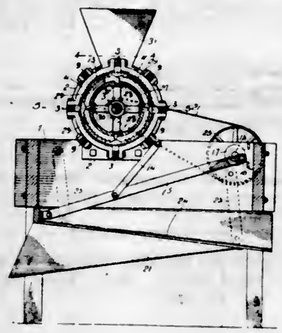
1. In a gearing indicator, means for supporting the gears to be tested in mesh, a wire, means comprising

pulleys over which the wire runs, said pulleys being arranged to turn with the gears, and means controlled by



the wire for indicating variations in the tension of said wire.

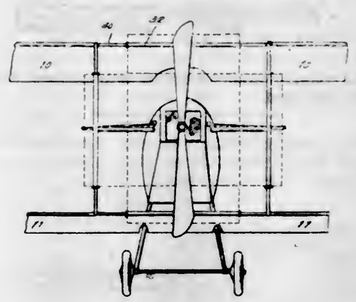
1,374,699. FEED-GRINDING MACHINE. JOSEPH H. WILLIAMS, North Kansas City, Mo. Filed Dec. 16, 1919. Serial No. 345,187. 6 Claims. (Cl. 83—6.)



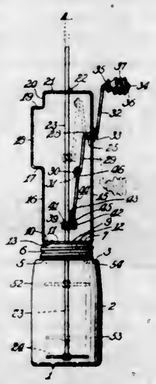
1. In a feed grinding machine, a plurality of circularly arranged grinding members, another set of grinding members similarly arranged in alternate order between the first named grinding members, the teeth of the grinding members of each of said sets being obliquely disposed on the inner sides of said grinding members, the teeth of one set of grinding members being laterally inclined in one direction, the teeth of the other set of grinding members being laterally inclined in the opposite direction, means for obtaining relative oscillation between grinding members of said two sets, a rotary support encircled by said grinding members, and grinding members arranged circularly on the periphery of said rotary support and revoluble therewith and having peripheral teeth adjacent to but spaced apart from the first named grinding members.

1,374,700. AEROPLANE STRUCTURE. THOMAS N. WILSON, Clarinda, Iowa. Filed Oct. 24, 1919. Serial No. 333,084. 2 Claims. (Cl. 244—25.)

1. In an aeroplane, the combination of a fuselage, an airfoil at the forward portion thereof, a propeller in front of the airfoil, means for jointly moving the propeller shaft and the airfoil to position approaching a right angle vertically relative to the rear portion of the fuselage, a series of stabilizing planes arranged in the path of the air currents set up by the propeller, and a single controlling means for said stabilizing planes, said controlling means being so arranged that when a stabilizing plane on one side is moved to position where it will receive considerable impact from the air current from the propeller, the corresponding stabilizing plane on the opposite side will be so moved that it will not present so great resistance to the air current from the propeller, for the purposes stated.



1,374,701. CHURNING, BEATING, OR MIXING APPARATUS. JOHN A. WILDE, Indianapolis, Ind. Filed Mar. 31, 1919. Serial No. 286,414. 1 Claim. (Cl. 74—14.)



In a churning, beating or mixing apparatus, the combination of a foundation plate having a central guide-opening, two base members rigidly secured upon the foundation plate, two standards rigid on said members respectively, one of said standards being straight, the remaining one of the standards having an outwardly extending off-set handle portion adjacent to the upper portion thereof, a tie-bar connected to the tops of said standards and having a guide-opening therein, a rod movably arranged in said guide-opening and extending between said standards, a journal box secured in the straight one of said standards opposite to said handle portion, a crosshead adjustably secured to said rod, a wrist-pin fixed on said crosshead, a short shaft rotatably supported in said journal box and having a crank arm on its inner end that has a crank-pin, a pitman arranged between said rod and the straight one of said standards and connected to said wrist-pin and to said crank-pin, an operating arm rigid on the outer end of said shaft, and a handle on said operating arm.

1,374,702. CAN-OPENER. ROWLAND H. WOLFE, Chicago, Ill. Filed July 3, 1918. Serial No. 243,166. 3 Claims. (Cl. 30—3.)

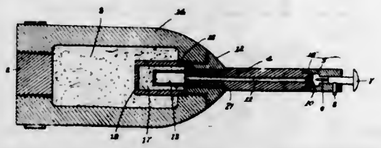
1. A can opener comprising a supporting member, provided with a longitudinal slot; a saddle sliding upon said

supporting member; mounting ears on said saddle projecting through the slot in said supporting member, and



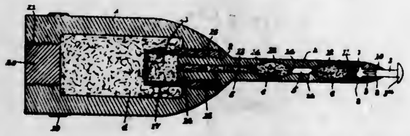
a cutting wheel rotatably mounted between ears, substantially as described.

1,374,703. PROJECTILE. ROBERT LEE WRIGHT, Los Angeles, Calif. Filed July 29, 1919. Serial No. 314,165. 30 Claims. (Cl. 102—29.)



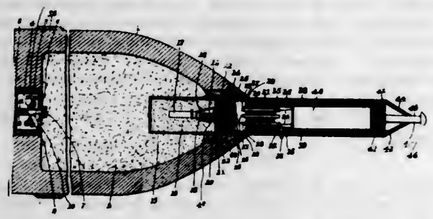
1. A projectile having a suitable cavity within to hold an explosive charge, a plug secured to one end of said projectile, a shell-pointer secured to said plug, said shell-pointer having an aperture therethrough, the rear end of said aperture being enlarged and closed, a firing pin support removably secured in the forward part of said shell-pointer, a firing pin having an enlarged head arranged in advance of said support, a cap, a set screw for holding the firing pin in inactive position and a tube for explosives surrounding the rear end of said shell-pointer.

1,374,704. SHELL AND PROJECTILE. ROBERT LEE WRIGHT, Los Angeles, Calif. Filed Oct. 21, 1920. Serial No. 418,343. 13 Claims. (Cl. 102—29.)



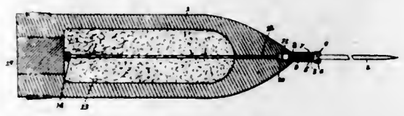
1. An ordnance shell or projectile having a projection secured to the forward end thereof extending axially and formed with a longitudinal bore and a plurality of cavities for explosives in alinement with said bore within said projection, explosives within each of said plurality of cavities, percussion means and a holder for said means secured in the forward part of said projection, the projection extending straight from the forward end of the shell or projectile to near the forward end from which place it slopes to the forward end in a way to form a point on the forward end of the projection and firing pin means for detonating said percussion means secured within the said projection.

1,374,705. PROJECTILE. ROBERT LEE WRIGHT, Los Angeles, Calif. Filed Apr. 17, 1920. Serial No. 374,612. 21 Claims. (Cl. 102—37.)



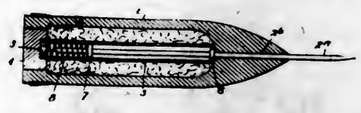
1. An ordnance projectile having an explosive charge and means for detonating same, said means including an axially arranged projection at the forward end of the projectile, a longitudinal bore within said projection, a detonating charge in alinement with the rear of said bore through said projection and in operative relation to the explosive charge in the projectile, another detonating charge and means for detonating the latter including a combined contact electric switch and firing pin engageable by contact electric switch means and contact percussion cap and fuse.

1,374,706. PROJECTILE AND BOMB COMBINED. ROBERT LEE WRIGHT, Los Angeles, Calif. Filed May 20, 1918. Serial No. 235,482. 12 Claims. (Cl. 102—29.)



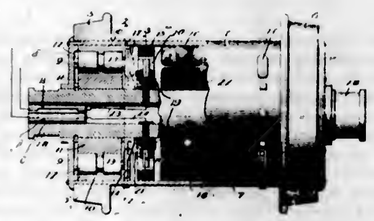
1. In a projectile, a slender rod extending from the nose, a plurality of bombs mounted on said rod in spaced relation and means for simultaneously igniting said bombs upon engagement with the target.

1,374,707. SHELL AND PROJECTILE. ROBERT LEE WRIGHT, Los Angeles, Calif. Filed Feb. 23, 1918. Serial No. 218,797. 25 Claims. (Cl. 102—29.)



1. An ordnance shell or projectile having a projection on its nose carrying an explosive charge.

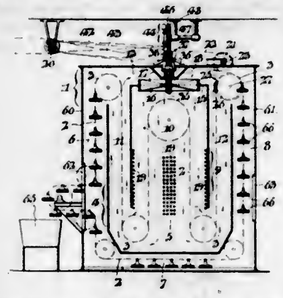
1,374,708. TRACTION-MOTOR. GEORGE YATES, Cleveland, Ohio. Filed Mar. 27, 1920. Serial No. 369,227. 7 Claims. (Cl. 105—57.)



1. A traction motor, consisting of a cylindrical wheel carrying casing, a shaft within the casing, antifriction bearing between the casing and the axle, a motor armature secured to the casing, a commutator also secured to the casing, and brushes carried by the axle and delivering electric current to the commutator.

1,374,709. DRYING-MACHINE. THOMAS ALLSOP and WALTER W. SIBSON, Philadelphia, Pa., assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1919. Serial No. 345,820. 4 Claims. (Cl. 34—12.)

1. In a drying machine, the combination of an inclosure; a rotary fan for circulating the air within the inclosure; a conveyer traversing the inclosure; a common driving system for said conveyer and said fan, including means whereby the movement of the conveyer may be suspended without interfering with the operation of said fan; a reversible driving mechanism for said fan comprising an actuating shaft; driving connections whereby said shaft may be



rotated in either direction; and shifting devices subject to the control of said shaft for connecting the latter alternately to said driving connections.

1,374,710. TAPE-NEEDLE. WINCAS ANTANAVICZIUS, Brooklyn, N. Y. Filed Apr. 14, 1920. Serial No. 373,724. 1 Claim. (Cl. 223—38.)

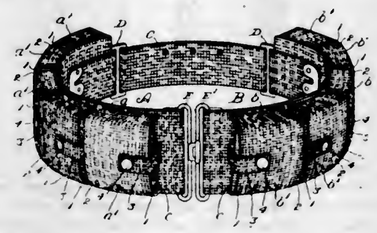


A tool of the character described comprising a shaft, a head part for said shaft provided with a threaded peg at one end, and a flattened part at the other, a central part provided with a threaded socket at one end adapted to be engaged by the peg on said head part, a screw peg at the opposite end, and a handle part provided with a screw socket at one end for engagement by the said peg of said central part at one end and a ring at the opposite end, said flattened part of the head part provided with an elongated hole, and a point projecting into the said hole at the center of its upper end for engagement with the material of an article to be secured to form a tube, substantially as described, and for the purpose set forth.

1,374,711. ARC-WELDING COMPOSITION. JAMES C. ARMOR, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1919. Serial No. 320,924. 5 Claims. (Cl. 219—8.)

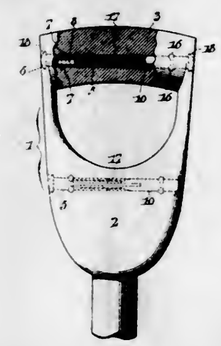
5. An arc welding electrode containing a flux comprising titanium as an elementary constituent and fusing at a temperature no higher than the fusing temperature of said electrode.

1,374,712. CARTRIDGE-CARRIER. FRANK R. BATCHELDER, Worcester, Mass., assignor to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 5, 1918. Serial No. 248,252. 8 Claims. (Cl. 224—23.)



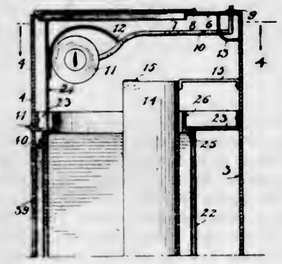
1. A cartridge-carrier constructed to be worn in a horizontal position encircling the waist of the wearer, having a horizontal series of pockets each formed with a vertical mouth adapted for withdrawal of a clip of cartridges from the pocket by a transverse movement.

1,374,713. REINFORCING OR STAY BOLT FOR TOOL-HANDLES. JAMES H. BELL, Philadelphia, Pa., assignor to The Wyoming Shovel Works, Wyoming, Pa., a Corporation of Pennsylvania. Filed May 14, 1919. Serial No. 297,092. 2 Claims. (Cl. 85—4.)



1. A composite reinforcing or stay-bolt for tool handles comprising a socket member and a shank member adapted to be inserted therein; said members having coöperative interlocking means effective to positively interlock the shaft member in the socket member against separation in divers endwise relations of said members and in all angular relations of said members about their common axis, but capable of yielding to permit relative shifting of said members to effect readjustment of the interlock when shrinkage of the tool handle occurs.

1,374,714. DARK-ROOM LANTERN. WALTER A. BELL, New York, N. Y. Filed July 18, 1918. Serial No. 245,440. 7 Claims. (Cl. 240—15.)

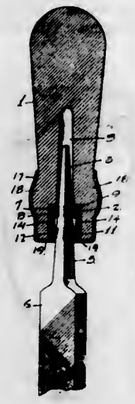


3. In a device of the class described, a casing with a source of light mounted therein, a reflector back of said source of light, a reflector in front of said source of light and a pivoted glass holder revoluble about said last named reflector.

1,374,715. FILE-HANDLE. HENRI BERNAT, San Francisco, Calif., assignor to The Thurston-Bernay Co., San Francisco, Calif., a Corporation of California. Filed Nov. 1, 1919. Serial No. 335,525. 1 Claim. (Cl. 279—99.)

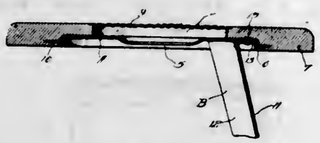
A file handle having a recess in the end thereof, a pair of separate interiorly screw-threaded dies held from rota-

tion in said recess, one of said dies having an extension flange whereby the two screw threaded parts are spaced a distance apart, said dies being adapted to receive and hold the tang of a file twisted into the same, the screw threads of the outer die being of greater diameter than



the screw threads of the inner die, and the interior diameter of said flange extension being greater than the interior diameter of the screw thread in the outer die.

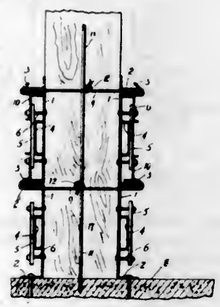
1,374,716. ARTICLE OF FURNITURE. HARRY BLOOM, MAX GERBER, and JOE PITERMAN, Chicago, Ill., assignors to Bloom, Gerber and Piterman, a Partnership consisting of Harry Bloom, Max Gerber, and Joe Piterman. Filed Aug. 14, 1920. Serial No. 403,516. 2 Claims. (Cl. 155—194.)



2. A furniture article comprising, in combination, a wooden seat in which is a central opening covered by a seating material, there being formed on the under side of the seat a recess which lies adjacent the opening, and a support on which the seat is mounted comprising a metal top piece adapted to fit within the recess upon the under side of the seat, means extending through the top piece and into the wooden seat to connect the one to the other, a plurality of metal legs each channeled to provide a center wall from which diverge two side walls, the upper end of each leg being formed with ears extending laterally, one from the center wall and one from each of the side walls, all of the ears lying in a common plane, a connection between each of the ears and the metal top piece, and braces interconnecting the legs below the top piece, substantially as described.

1,374,717. METALLIC MOLD FOR CONCRETE WALLS. GEORGE W. BOLTON, Dallas, Tex. Filed June 29, 1920. Serial No. 392,802. 5 Claims. (Cl. 25—131.)

2. A metallic mold for concrete and plastic walls, said mold consisting of a plurality of oblong plates with their sides bent at right angles to the body thereof and forming a channel, similarly constructed reinforcing members detachably connected to said plates longitudinally and vertically thereof, and cross links between the wall molds and fastened to the right angled sides thereof to sustain

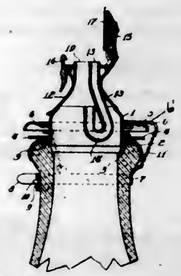


the molds in parallel relationship, said links providing a strengthening means for the concrete wall and a fastening means for outside strips when the molds are removed, and means for providing window and door spaces at designated points in the wall.

1,374,718. MANUFACTURE OF ARTIFICIAL VISCOSE SILK. EMILE BRONNERT, Mulhouse, Alsace-Lorraine, France. Filed Sept. 8, 1920. Serial No. 408,967. 1 Claim. (Cl. 18—54.)

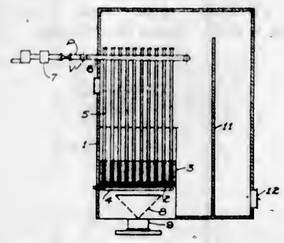
The process of producing artificial viscose silk threads up to 1 denier in fineness, consisting in that raw viscose with alkaline condensation products of phenols and aldehydes are spun in bisulfite baths, the concentration of the baths being inversely proportional to the thread fineness to be produced.

1,374,719. MILK-BOTTLE TOP. ANGELO CUOMO, Astoria, N. Y. Filed July 14, 1920. Serial No. 396,238. 6 Claims. (Cl. 215—79.)



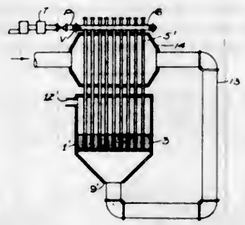
6. A temporary bottle closure comprising a cap piece having a pouring orifice covered by a spring actuated cap, a collar loosely mounted on said cap piece, a spring encircling said cap piece, a bottle neck band and connections therefrom to said loose collar normally holding said spring under compression, and an air inlet tube disposed in the pouring orifice.

1,374,720. PROCESS OF PRODUCING MALEIC ACID. CHARLES R. DOWNS, Cliffside, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Original application filed June 11, 1919, Serial No. 303,337. Divided and this application filed July 3, 1920. Serial No. 393,904. 4 Claims. (Cl. 23—24.)



1. In the manufacture of maleic acid by the partial oxidation of benzene by an oxygen containing gas in the presence of a suitable catalyzer, the step which comprises providing liquid mercury out of contact with the reaction mixture but in heat transferring relationship thereto.

1,374,721. PROCESS OF PRODUCING ANTHRAQUINONE. CHARLES R. DOWNS, Cliffside, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Original application filed June 11, 1919, Serial No. 303,337. Divided and this application filed July 3, 1920. Serial No. 393,905. 4 Claims. (Cl. 23—24.)



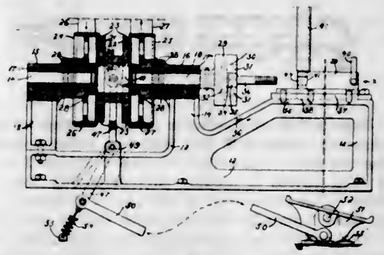
1. In the manufacture of anthraquinone by the partial oxidization of anthracene by an oxygen containing gas in the presence of a suitable catalyzer, the step which comprises providing liquid mercury out of contact with the reaction mixture but in heat transferring relationship thereto.

1,374,722. CATALYTIC OXIDATION OF NAPHTHALENE. CHARLES R. DOWNS, Cliffside, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,353. 6 Claims. (Cl. 23—24.)

1. The method of partially oxidizing naphthalene which comprises subjecting it in the vapor phase to the action of an oxygen containing gas in the presence of aluminium oxid as a catalyst.

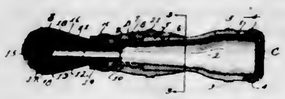
1,374,723. BOLT-RECLAIMING MACHINE. EDMUND LOUIS DUNN, Philadelphia, Pa., assignor of one-third to James P. Salmon and one-third to Edmund D. Fitzpatrick, Philadelphia, Pa. Filed Nov. 29, 1919. Serial No. 341,451. 4 Claims. (Cl. 10—1.)

1. A reclaiming machine for rusty bolts, including a chuck having a cavity adapted to receive and freely hold the head of a bolt; means for optionally rotating said chuck in opposite directions; and a carriage slidably supported to move in opposite directions in alinement with the axis of the bolt within the chuck, said carriage having a socket with a lateral opening and being adapted to hold a nut, inserted therein through said opening, against rotation whereby when the carriage is moved in one direction, the nut will be advanced into engagement with the screw



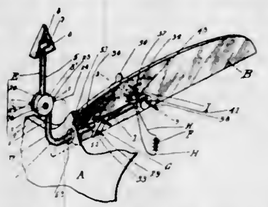
threaded portion of the bolt throughout its length to strip the same of its coating of rust, said chuck then being rotatable in the opposite direction to move the nut and carriage in a direction away from the head of the bolt; substantially as described.

1,374,724. FOUNTAIN SHAVING-BRUSH. JOHN S. EDDY, Los Angeles, Calif. Filed July 6, 1920. Serial No. 394,245. 5 Claims. (Cl. 15—50.)



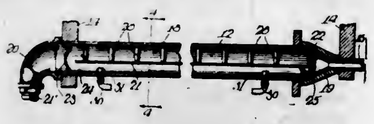
1. A fountain shaving brush having body and handle members and a brush on said body member, said handle member having a liquid holding chamber therein, telescoping extensions on said handle and body members, said handle extension being open and said body extension being closed at one end, the adjacent end of said handle being adapted to seat on said closure for closing the same and outlet means in said outer extension for discharging the liquid.

1,374,725. SAFETY DIRECTION-SIGNAL. HOWARD E. EVERETT, St. Paul, Minn. Filed May 27, 1920. Serial No. 384,567. 3 Claims. (Cl. 116—54.)



1. In a signal device of the class described the combination with a swingable semaphore arm and a cable eccentrically connected therewith, of mechanism supported on the car body connected with the cable for pulling in or paying out the latter and for holding it pulled in, said mechanism comprising a supporting member including a plate having a hole in its face, a horizontally disposed longitudinally shiftable rotatable shaft disposed at right angles to said supporting member and having a shoulder engageable with the face of said plate, a handle for turning the shaft, a sheave rigid on the shaft and connected with the cable to windingly receive the latter, a spring for the shaft to yieldingly hold said shoulder against said plate, and a pin extending from said shoulder and projectable into said hole to hold the cable pulled in.

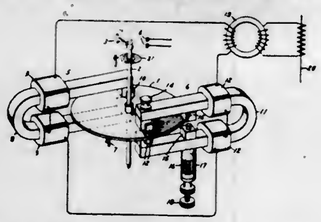
1,374,726. HUMIDIFIER FOR PRINTING-MACHINES OR THE LIKE. GEORGE C. FLINT, Chicago, Ill. Filed Oct. 18, 1917. Serial No. 197,374. 17 Claims. (Cl. 91—44.)



8. A humidifier comprising a casing having an inlet, and means for connecting said inlet to a steam system, in combination with a plurality of nozzles attached to said casing each having a tubular part extending into close proximity to the upper wall of said casing arranged to discharge vapor from adjacent the upper wall of said casing and a plurality of tubular outlets upon said casing each arranged to discharge a vapor from a lower point in said casing.

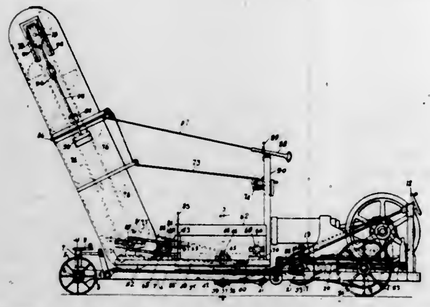
16. An attachment for printing presses, including a steam line, a transverse pipe connected to said line and provided with means for discharging steam against a sheet of paper being unwound from a roll, and a movable nozzle arranged at the end of the roll to project steam against said end and alining at all times with the outer ply of the roll.

1,374,727. PROTECTIVE DEVICE. HENRY G. FRENCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,248. 10 Claims. (Cl. 175—294.)



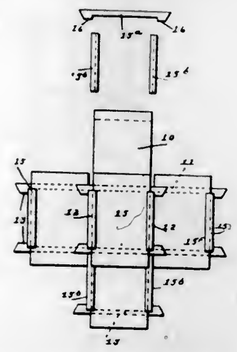
2. A relay device comprising a rotatable armature, contacts controlled thereby, a motor element tending to rotate said armature in contact-controlling direction, a restraining element normally rendering said motor element ineffective, and means adjustable to operate in response to any predetermined value of current for causing said motor element to positively overcome said restraining element and carry said armature through its complete path of travel into contact-controlling position.

1,374,728. ELEVATOR. LEO J. GEIER, St. Henry, Ohio. Filed Mar. 27, 1919. Serial No. 285,528. 6 Claims. (Cl. 193—6.)



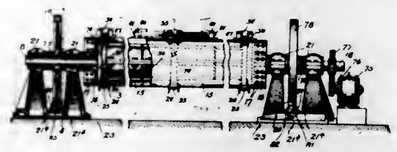
1. In a grain elevator, the combination with a truck supported upon wheels, a turn-table mounted upon the truck, an elevator mounted on the turn-table, a grain hopper mounted on the turn-table and grain feeding connections between the hopper and the elevator, of self-actuating means to propel the truck and also to operate the turn-table, the elevator and the grain feeding connections either together or separately.

1,374,729. PUZZLE. IGNACY GIZA, Deep River, Conn. Filed May 7, 1920. Serial No. 379,433. 1 Claim. (Cl. 46—41.)



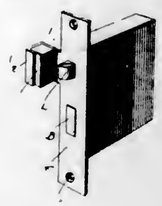
A box puzzle comprising six main wall members extending across one another to form a central compartment, and a series of panels closing the spaces between the ends of said main members, and interlocking therewith and being adapted to be disassembled in a certain sequence, said panels and main members having inturned flanges on their ends whereby they interlock, one of said panels being split longitudinally into two halves to form a key panel.

1,374,730. MACHINE FOR MAKING CONCRETE POLES. JULIUS J. GRUENFELD, Jr., Chicago, Ill. Filed Sept. 22, 1920. Serial No. 412,038. 12 Claims. (Cl. 25—30.)



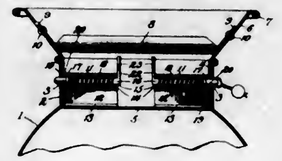
1. In a centrifugal machine for making concrete poles, the combination of a carrier, means adjacent the ends for revolubly supporting the carrier, the carrier being adapted to receive a mold sidewise between said supports, and means for removably securing the mold in the carrier.

1,374,731. DOOR-STOP. LEONELL R. HAGE, Fairfield, Mont. Filed May 1, 1920. Serial No. 378,103. 8 Claims. (Cl. 70—16.)



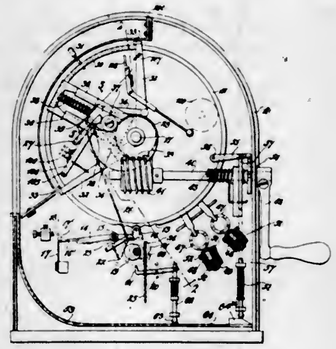
2. In a door stop, the combination with a plate projecting from the free edge of the door, and a bumper in the projecting end of the plate; of a strip having at one end a flange standing in the path of the bumper as the door closes, the strike carried by the door frame, and means for adjustably connecting said strip with the strike.

1,374,732. MILK-CAN COVER. JOHN FLOYD HAMILTON, Minidoka, Idaho. Filed Oct. 25, 1919. Serial No. 333,210. 1 Claim. (Cl. 31—78.)



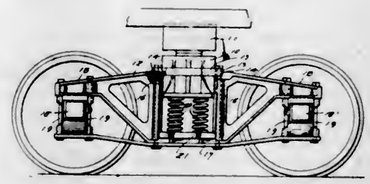
In a cover fastener for milk cans and the like, the combination with a cover having a cylindrical collar adapted to fit within the neck of a can, said neck having diametrically opposite openings therein, a flange joined to the upper end of the collar, and a handle secured transversely within the flange, of longitudinally alined, spaced apart housings arranged directly beneath the handle and substantially parallel therewith, locking bolts mounted slidably and non-rotatably within the housings, said bolts having their outer ends extending through the walls of the cylindrical collar and adapted to enter the openings provided in the neck of the can, coil springs surrounding the bolts within the housings and normally forcing the same outwardly into locking position, upwardly extending arms carried by the inner ends of each of the bolts in spaced relation to each other, and finger engaging portions at the upper ends of the arms and immediately beneath the handle to be grasped between the middle fingers of the operator to retract the bolts at the same time the handle is grasped to remove the cover, the arms being maintained vertical in all positions of the bolts by the non-rotative mounting of the bolts.

1,374,733. ELECTRICAL TRANSMITTING APPARATUS. HENRY KINGSFORD HARRIS, Westminster, London, England. Filed Oct. 17, 1917. Serial No. 197,065. 7 Claims. (Cl. 177—380.)



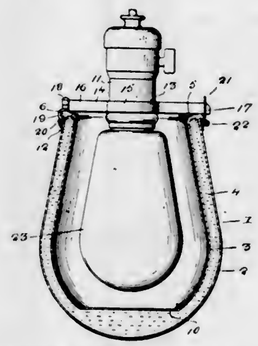
7. A transmitting apparatus for operating a sign telegraph or the like, comprising a movable member, means controlled by the movable member for transmitting a number of the electrical impulses according to the distance through which said member is moved, an index associated with said moving member, adjustable means for determining and limiting the distance through which said member is to move in proceeding from one setting position to the next, said adjustable means comprising an adjustable stop associated with the moving member and adapted to be adjusted with reference to the index and arranged to engage a relatively fixed stop, said adjustable means comprising wheels adapted to receive adjustable stop members on their peripheries opposite predetermined signs on said index, means for subsequently bringing said wheels to a zero position, a locking means adapted to lock all the transmitting members simultaneously, a selective switch, means for operating the selective switch to bring any of the necessary units into circuit, and an indicator for indicating the position into which the locking means has been set.

1,374,734. SIDE FRAME FOR CAR-TRUCKS. WILLIAM HARRIS, Jr., St. Louis, Mo. Filed Mar. 11, 1920. Serial No. 364,930. 2 Claims. (Cl. 105—207.)



1. A side frame for car trucks having a vertical bolster guide of which the jambs together with the convergent compression and tensile members of the frame constitute a single casting, a retaining bar closing the upper end of the guide, a bottom bar coextensive with and extending under the casting in intermediate contact with the bottom of the bolster guide, common tie bolts housed in the jambs of the bolster guide for securing the retaining bar and bottom bar in place, and pairs of vertical spaced guide pins connecting the extremities of the bottom bar with the ends of the castings for positioning the axle boxes.

1,374,735. LAMP-SHADE. EDWARD M. HARVEY, Eugene, Oreg. Filed May 20, 1918. Serial No. 235,506. 1 Claim. (Cl. 240—115.)

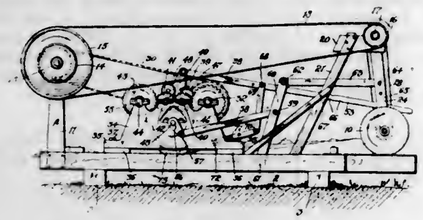


The combination with a shade having a circumferential flange around the neck, of a band surrounding the neck of the shade and engaged under said flange, a finger secured to said band and curved over the edge of said shade, a pivot projecting from said finger, a pair of members having corresponding ends swingingly mounted upon said pivot, means carried by said band for securing the opposite ends of said members together, and said members having intermediate bulged portions for the purpose specified.

1,374,736. WOOD-SAW. BIRD HATLEY, Everson, Wash. Filed Mar. 22, 1920. Serial No. 367,825. 5 Claims. (Cl. 143—46.)

1. In a wood sawing machine, the combination of a rotatable saw, and mechanism for bodily moving the same

along a curvilinear path, comprising a rotatable crank shaft, connections between said crank shaft and said saw, a friction wheel fast on said crank shaft, a train of gearing, means for rotating said gear train, two friction



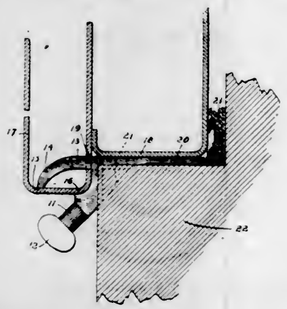
disks rotating with said gear train, and two friction pinions disposed between said friction disks and being bodily shiftable to bring either one into frictional contact with the adjacent friction disk and with said friction wheel.

1,374,737. HAT-LINING. BARNETT HOROWITZ, Brooklyn, N. Y. Filed Apr. 1, 1920. Serial No. 370,479. 4 Claims. (Cl. 2—113.)



1. A lining for hats comprising a body having an opening in the crown thereof, a substantially non-stretchable member connected to said body adjacent said opening, a central section overlapping said opening, and hook members extending from said central section pressing against said non-stretchable member for locking the central section to the body.

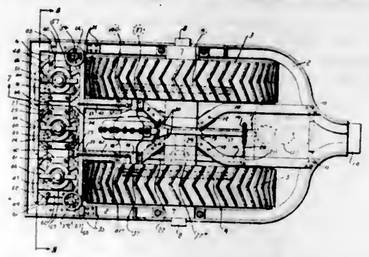
1,374,738. ATTACHMENT-HOOK FOR SAFETY-BELTS. AMSON G. ILLCH, New York, N. Y. Filed Sept. 11, 1920. Serial No. 409,693. 5 Claims. (Cl. 72—108.)



1. In an attachment-hook for safety-belts and window-frames, a window-casing having a perforated staff-molding thereon, means upon the hook for attaching same to and through the staff-molding of the window frame.

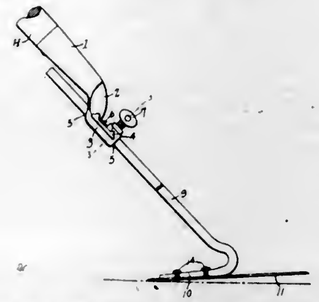
1,374,739. TRACTOR ROTARY PLOW. SLEEPER T. INGRAM, St. Louis, Mo., assignor of thirty per cent. to James E. Newell, St. Louis, Mo. Original application filed Nov. 23, 1918, Serial No. 263,866. Divided and this application filed Nov. 8, 1919. Serial No. 336,663. 5 Claims. (Cl. 180—54.)

1. In a machine of the character described, the combination of a main frame, a pair of tractor-wheels, an axle shaft journaled in the said main frame, an auxiliary frame within and supported by the said main frame at the ends of the latter, and a central axle support sup-



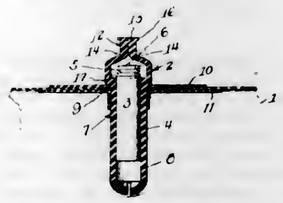
ported by the said auxiliary frame, the said central support having brackets extending therefrom for attachment to the said auxiliary frame.

1,374,740. HOE. LEVI JARVIS, Cedar Rapids, Nebr. Filed Sept. 4, 1919. Serial No. 321,511. 1 Claim. (Cl. 306—28.)



In a hoe, a handle holder having a downwardly offset arm merging into a base disposed approximately parallel to the axis of the holder, the base being supplied at its outer end with an eye, and having a bore of common diameter from end to end, the bore being prolonged through the arm and through the eye, there being an opening in the top of the base, between the arm and the eye, the opening communicating with the bore; a shank including a body slidable in the bore and spaced transversely from the holder for free longitudinal sliding movement in spaced relation to the holder; a blade carried by the shank; and a clamping device mounted in the eye and engaging the body, the clamping device constituting the sole means for limiting the longitudinal movement of the body.

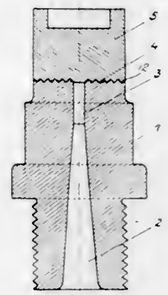
1,374,741. PROTECTED VALVE. CHARLES JOHN JENSEN, North Plainfield, N. J. Filed July 14, 1920. Serial No. 396,247. 1 Claim. (Cl. 46—4.)



In a device such as described, the combination with a bladder and a valve therefor, of a holder for said valve

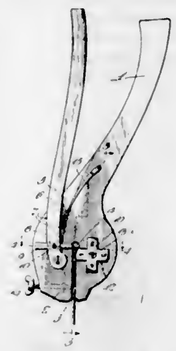
including a tubular member, adapted to receive the valve, flaps formed upon the tubular member and adapted to be attached to the bladder, to hold the tubular member in position, a compressible head formed upon the tubular member exterior of the bladder and concealing the valve, said head having a slot therein, the head having a bead and ribs thereon normally holding the slot closed and being so shaped that upon compression of the opposite sides thereof said slot will be opened and the valve exposed.

1,374,742. HOMOGENIZER FOR CREAM AND OTHER LIQUIDS. OLE PETER JENSEN and ANDERS PETER ANDERSEN, Copenhagen, Denmark. Filed Sept. 28, 1920. Serial No. 413,428. 2 Claims. (Cl. 99—2.)



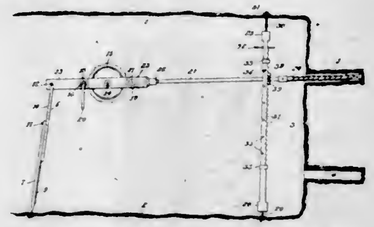
1. A homogenizing valve comprising a pair of coacting members having their confronting end faces formed with a plurality of spaced annular ribs of V-section, the ribs on each member fitting conformably in the spaces between the ribs on the other member.

1,374,743. SAW-SET. CHARLES A. JOHNSON, Clark Fork, Idaho. Filed Apr. 19, 1920. Serial No. 375,079. 3 Claims. (Cl. 76—64.)



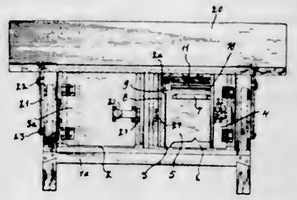
1. A saw set including a handle having a slot at its outer end for reception of the saw, a lever pivoted to said handle adjacent the slot, an anvil carried by the handle and positioned on a side of the slot opposite to that of the pivotal connection of the aforesaid lever, said anvil having a plurality of teeth-bearing-surfaces of varied inclinations, said lever being formed adjacent the pivot with a transverse slot, and a tapered removable and reversible hammer arranged in and held in said slot, being coöperative with the aforesaid teeth-bearing-surfaces.

1,374,744. MINE-DRILL. GEORGE JURESISIN, Wilkes-Barre, Pa. Filed Sept. 19, 1919. Serial No. 324,794. 1 Claim. (Cl. 255—46.)



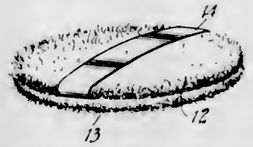
A drill of the type described comprising a mechanism supporting frame, supporting legs for one end thereof, a drill shank extending from the other end of the frame, and an adjustable rack for supporting the forward end of the shank and spaced from the mechanism frame.

1,374,745. BEEHIVE. TEODOR JURIW, East Douglas, Mass. Filed June 12, 1920. Serial No. 388,398. 1 Claim. (Cl. 6—1.)



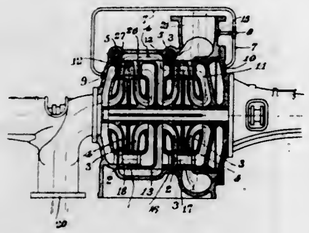
In a device of the class described, boxes having compartments therein, each of said compartments having horizontal slots in opposite side walls thereof near the top of the compartment, rectangular comb frames adapted to be secured within said compartments, said frames having rigid eaves extending from opposite sides thereof, said eaves being adapted to slidably engage said slots, a door hinged to the front of said box, an opening in the rear of said box near the base thereof for the passage of bees, handles on the tops of said frames, a vertically situated cover at the front of said compartment having an opening in the bottom thereof and a handle rigid upon the outer surface thereof, a rod pivotally and slidably mounted on the floor of said compartment, a handle on the forward end of said rod, a fork on the rear end of said rod adapted to grasp the lower edge of said frames, and means for locking said doors.

1,374,746. POWDER-PUFF. WILLIAM G. KENDALL, Newark, N. J. Filed Nov. 4, 1920. Serial No. 421,765. 5 Claims. (Cl. 15—72.)



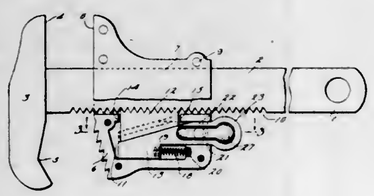
1. As an article of manufacture, a powder puff comprising two superposed rings provided with interlocking members, one of the said rings having points located diametrically opposite each other, two textile body parts stretched over the outer faces of the said rings and having their peripheral portions extending over and between the rings, the said interlocking members clamping the said peripheral portions in place between the rings, and a handle formed of a piece of ribbon attached at its ends to the said ring points and extending across the outer surface of the body part stretched over the ring.

1,374,747. CHANGEABLE CENTRIFUGAL PUMP. ICHIJI KUROISHI, Tokyo, Japan. Filed June 3, 1918. Serial No. 237,991. 3 Claims. (Cl. 103—43.)



1. A changeable centrifugal pump consisting of an outer casing, an inlet leading to the casing, an outlet leading from the casing, inner casings formed in the outer casing, a shaft extending through the casings, passages provided in the outer casing for arranging the inner casings in connection with each other, impellers mounted on the shaft, and coacting stationary disks and shiftable elements mounted in the inner casing and provided with openings for registration with each other and for registration with the passages and the impellers, and manually controlled means in the inner casing for placing the impellers in series or in parallel.

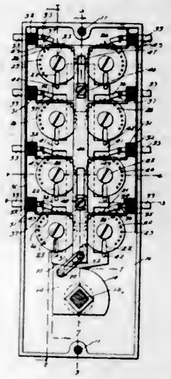
1,374,748. PIPE AND NUT WRENCH. CHARLES MCCARTER, Decatur, Ill. Filed Jan. 6, 1920. Serial No. 349,727. 1 Claim. (Cl. 81—143.)



A wrench of the character described comprising a shank, a stationary jaw arranged on the shank, a sleeve slidingly mounted on said shank formed with a jaw co-acting with the stationary jaw, said sleeve being formed hollow and with an opening facing the shank and an opening in the end arranged parallel with said shank but spaced therefrom, a cam arranged in said sleeve formed with a surface for engaging the shank, and an inclined surface on the opposite side, a shifting cam having a beveled surface engaging said inclined surface, said shifting cam having a hand-hold projecting through the second mentioned opening in said sleeve, said sleeve being provided with a plurality of notches, a pivotally mounted catch arranged in said hand-hold provided with a thumb member and with a projection adapted to fit into one of said notches for locking the shifting cam in any desired position.

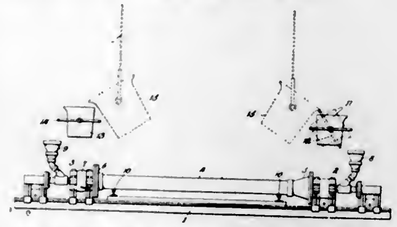
1,374,749. LOCK. BARTHOLOMEW F. MCCARTHY, Brooklyn, N. Y. Filed Jan. 10, 1920. Serial No. 350,506. 4 Claims. (Cl. 70—53.)

1. In combination with a door knob and its spindle, a permutation lock comprising a housing, a cam member carried by the door knob spindle and lying within the housing, a plurality of notched disks arranged in pairs, a reciprocating member movable longitudinally of the housing and provided with arms lying normally between the notched disks, means carried by the reciprocating member for engagement with the notched disks to prevent movement of the reciprocating member, and means to permit



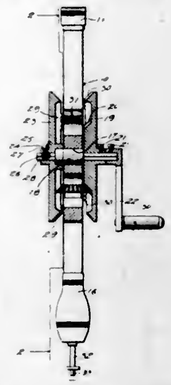
movement of the reciprocating member upon turning of the knob spindle by means of the cam carried thereby.

1,374,750. METHOD OF POURING METAL IN THE FORMATION OF CAST-IRON PIPES. JAMES R. MCWANE, Birmingham, Ala. Filed Mar. 23, 1920. Serial No. 368,173. 8 Claims. (Cl. 22—209.)



1. The method of casting iron pipe centrifugally in rotatable flasks, which consists in pouring molten metal into one end of the flask, then pouring molten metal simultaneously into both ends of the flask, then rotating the flask, and then adding molten metal to one end of the flask while still rotating the latter.

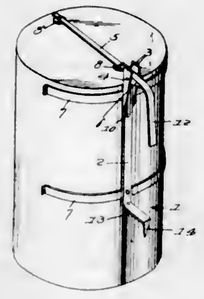
1,374,751. COMBINATION-TOOL. GEORGE C. MARTEN, Effingham, Ill. Filed Apr. 12, 1919. Serial No. 289,650. 2 Claims. (Cl. 51—29.)



1. In a device of the class described, a frame having spaced bearings, a shaft journaled for rotation in the frame, a pinion upon the shaft, an operating shaft adapted

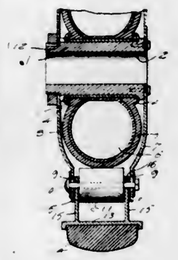
to be journaled in the first mentioned bearings, interchangeably, means whereby the last mentioned shaft may be rotated, a gear fixed upon the last mentioned shaft at one side of the same and having concentric series of gear teeth, one series having its teeth arranged in spaced sets and adapted to mesh with the pinion when the shaft is mounted in one of the bearings, and the other series adapted to mesh with the pinion when the shaft is mounted in the other bearing, and a gear removably mounted upon the operating shaft at the other side of the same and having a series of gear teeth arranged in spaced sets and adapted to mesh with the pinion alternately with the sets of the first mentioned series of the first mentioned gear when the operating shaft is mounted as first stated, the last mentioned gear constituting also means for preventing longituding displacement of the operating shaft in the bearing.

1,374,752. ATTACHMENT FOR CLOSED CANS. BERTELLOW W. MEGQUIER, Butte, Mont. Filed Mar. 21, 1919. Serial No. 284,204. 1 Claim. (Cl. 220—51.)



A new article of manufacture comprising an upright bar, means for securing the same to a can, a lever pivotally mounted at the upper end of the bar, a pair of spaced inverted cupped disks secured to the lever on one side of the pivot, and a spring bearing against the lever and tending to force downward that portion carrying the disks to that the disks may be made to cover spaced perforations formed at the top of the can, that portion of the lever on the opposite side of the pivot from the disks being bent downwardly in he direction of the length of the bar, whereby the act of gripping the can in the hand may serve to raise that end of the lever carrying the disks for the useful purpose specified.

1,374,753. CUSHIONED WHEEL. AUSTIN A. MENDENHALL, Duluth, Minn. Filed Apr. 9, 1920. Serial No. 372,454. 1 Claim. (Cl. 152—42.)



A cushion wheel including a hub having a pneumatic cushioning element and a rim supporting a tire, relatively spaced inwardly extending annular plates formed on said rim, bolts carried by said plates and projecting beyond the same, rollers on said bolts and engaging the cushioning elements, and guard plates secured to the hub on each side of the cushioning element and slidably receiving the annular plates and having openings to receive the ends of the bolts, said openings being of a diameter greater than the diameter of the bolts to permit the hub and rim to have relative movement in relation to each other.

1,374,754. ADJUSTABLE HAND-REAMER. FRANK P. MILLER, Meadville, Pa. Filed Dec. 10, 1918. Serial No. 266,112. 1 Claim. (Cl. 77—72.)

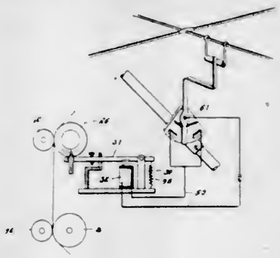


A reamer comprising a cutting head member provided with a relatively long cylindrical shank, the cutting edges of the head member being concentric with said shank, a relatively short guide and bearing sleeve movably mounted on said shank, the periphery of said sleeve also concentric with said cylindrical shank, and means whereby said sleeve may be held rigidly or loosely on the shank at any point between its free end and the said cutting head.

1,374,755. KEROSENE-EMULSION COMPOSITION. DENNIS J. MURPHY, Hog Island, Pa. Filed Aug. 22, 1919. Serial No. 319,157. Renewed Mar. 1, 1921. Serial No. 448,867. 4 Claims. (Cl. 167—6.)

1. A kerosene emulsion containing kerosene emulsified with the reaction products of potassium hydrate, oleic acid and stearic acid, in water, the amount of kerosene being at least several times as much as the combined amounts of the fatty acids and potassium hydrate.

1,374,756. CHANGEABLE EXHIBITOR. WILLIAM Z. MUSGRAVE, Atlanta, Ga. Filed Nov. 28, 1916. Serial No. 133,949. 3 Claims. (Cl. 40—56.)

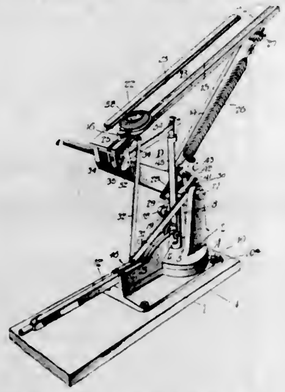


1. In a changeable exhibitor, a casing having a sight opening therein, drums journaled in said casing above and below the sight opening respectively, a tape movable across the sight opening and having the ends thereof secured to said drums and wrapped about the same, a motor, driving connections between the said motor and drums whereby the tape may be moved across the sight opening, means holding said drums normally against rotation, and operable to release the drums so that the latter may be revolved under the action of said motor, brake mechanism and means connecting the drum holding means and brake mechanism for actuating the brake prior to the operation of the drum holding means.

1,374,757. CATAPULT. CHARLES H. NAPIER, Macon, Ga. Filed Apr. 16, 1920. Serial No. 374,452. 13 Claims. (Cl. 124—6.)

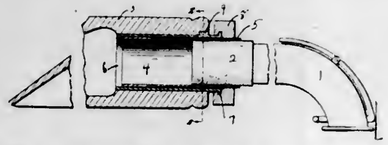
1. A device of the class described, comprising a base, a member mounted thereon and adapted to direct the

projection of a missile, means movable along said member for projecting the missile, an element rockably mounted on said base and connected to said projecting means, power means connected to rock said element for actuating said projecting means, mechanism connected to said ele-



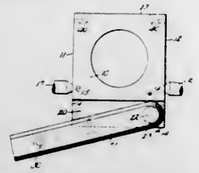
ment so as to rock the same against the action of said power means for setting said projecting means, a lock for holding said projecting means in its set or retracted position, and means for retracting said lock so as to effect the release of said projecting means.

1,374,758. TUNING ATTACHMENT FOR WIND MUSICAL INSTRUMENTS. GEORGE F. NENNEKER, Laporte, Ind. Filed Oct. 11, 1920. Serial No. 416,079. 3 Claims. (Cl. 84—386.)



1. In combination with a mouth piece for a saxophone or like reed instruments, of a tuning device mounted therein.

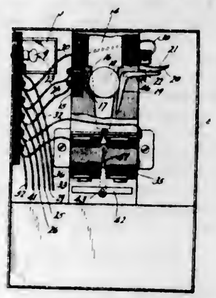
1,374,759. SINE-BAR. HENRY STEWART NODDINGS, Springfield, Mass. Filed Apr. 10, 1920. Serial No. 372,782. 5 Claims. (Cl. 33—93.)



1. A measuring instrument, comprising a supporting block provided at its sides with centering holes adapted to be engaged by supporting centers, the center holes having a common axis parallel with the top and bottom of the block, a measuring bar and a clamping pivot held transversely on the said supporting block, and on which one end of the measuring bar is mounted to swing.

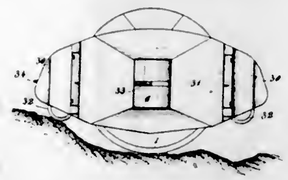
1,374,760. TELEPHONE-COLLECTION-BOX APPARATUS. OSCAR A. PEDERSEN, New York, N. Y. Filed Jan. 25, 1918. Serial No. 213,685. 7 Claims. (Cl. 194—8.)

1. An apparatus as characterized embodying a terminal, a wiper, and a trigger having a terminal normally out of contact with the first terminal, and in position to engage the first terminal, the trigger being spaced from the wiper to permit of the disposal of a coin between the



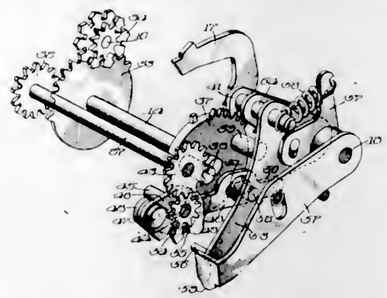
wiper and the trigger, the coin serving to move the trigger so the terminal thereon will be brought into engagement with the first terminal.

1,374,761. MONOCYCLE-VEHICLE. CARLO POMILIO, Rome, Italy. Filed Aug. 8, 1918. Serial No. 249,038. 6 Claims. (Cl. 89—36.)



1. In a monocycle vehicle the combination of an external drum-shaped rolling body, with the rolling surface convex toward the outside in cross section, and central openings in the two side cheeks, a hollow shaft rotatable in the said central openings, turrets outside the drum and carried by the said shaft, a chamber suspended from the said shaft, means of propulsion in said chamber adapted to cause the external drum to rotate and means for inclining the drum on one or the other side.

1,374,762. CALCULATING-MACHINE. ARTHUR F. POOLE, Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed July 21, 1913. Serial No. 780,408. 29 Claims. (Cl. 235—59.)



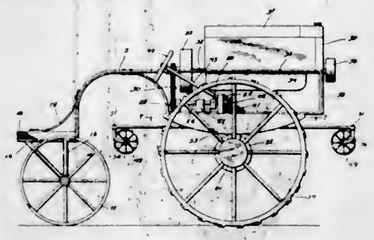
1. In a calculating machine, the combination of a master wheel, a set of numeral keys, each adapted to operate a master wheel an amount corresponding to the value of said key, a reversible totalizer adapted to have numbers inserted therein by said master wheel, the arrangement of the keys, totalizer and master wheel being such

that any of the said keys may determine the number entered by said master wheel in any of the decimal places of said totalizer, and means to automatically insert a unit in said totalizer subsequent to the insertion of a number therein by said keys.

9. In a totalizer a movable pivot and means adapted to actuate the wheels of said totalizer mounted on said pivot.

24. In a calculating machine, the combination of a totalizer, said totalizer including a set of carrying gears and a set of carryable gears, means for the insertion of a unit in said totalizer as an incident of the passing of the highest carrying gear through 0, and means to remove the spiral consequent upon the passing of said highest carrying gear through 0 before the insertion of said unit.

1,374,763. TRACTOR. ANDY R. OLLER, Beaver Dam, Ky. Filed June 7, 1920. Serial No. 387,067. 4 Claims. (Cl. 180—12.)

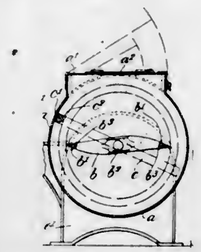


1. A tractor having a fifth wheel comprising relatively stationary and revoluble members of which the latter carries the traction wheels and the former the frame for supporting the engine and its connections, the axle driving shaft being disposed in coaxial relation with the fifth wheel, and movable balance wheels for depression into operative relation with the plane of support of the traction wheels when the latter are disposed in angular relation with the normal direction of progress of the machine.

1,374,764. ORNAMENTAL CARD AND METHOD OF PRODUCING THE SAME. PAUL J. OSBORNE, Hoboken, N. J. Filed Nov. 9, 1920. Serial No. 422,860. 6 Claims. (Cl. 41—34.)

1. An ornamental card or the like, embodying a printed design, and a sheet of mica or similar substance in predetermined outline incorporated with said design, said printed design being applied in part upon said mica.

1,374,765. MIXER FOR DOUGH AND LIKE PLASTIC SUBSTANCES. JOSEPH WILLIAM OWEN, Plymouth, England. Filed Dec. 16, 1920. Serial No. 431,219. 5 Claims. (Cl. 259—109.)



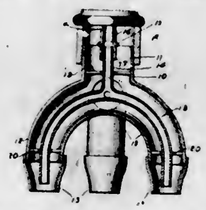
1. In an apparatus for mixing plastic substances, the combination with a mixing chamber, of two coöperating mixing members therein, one of said members having a longitudinally extending arm adapted to lie close to the inner wall of said chamber and a triangular cross-section with the apex of the triangle directed inwardly of the chamber, and the other member having a plurality of longitudinally extending spaced arms adapted to rotate in a path lying within and close to the arm of the first mentioned member, and means for relatively rotating said mixing members.

1,374,766. ELECTRIC INCANDESCENT LAMP. HARUHIKO OZAKI, Yokohama, Japan. Filed Oct. 19, 1918. Serial No. 258,807. 4 Claims. (Cl. 176—39.)



1. In an electric incandescent filament lamp, a support for the filament comprising an arm having a flattened end portion formed in a U-shape with the inside lower surface thereof smooth and curved in opposite directions longitudinally and transversely of the axis of the arm, the transverse curvature being formed on a relatively large curve having its center of curvature outside of the support.

1,374,767. SIX-STREAM DISTRIBUTING ATTACHMENT FOR SODA-WATER DRAFT-ARMS. CHARLES REED RAGSDALE, St. Louis, Mo. Filed Mar. 6, 1919. Serial No. 280,918. 3 Claims. (Cl. 225—23.)



1. The combination with a soda water draft arm having independent coarse and fine stream connections; of a fitting having a neck provided with a plurality of branches, a fine spray pipe axially within the neck and having a series of branches leading into and through the first named branches to the nozzles thereof, and means for effecting the connection of the fine spray pipe with the fine stream connection upon the attachment of the neck with the coarse stream connection.

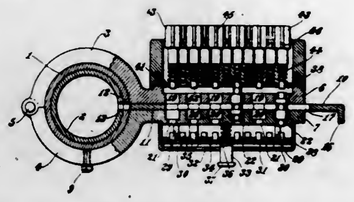
1,374,768. CUTTING IMPLEMENT. DAVID RUPPERT, Westminster, Md. Filed Sept. 24, 1919. Serial No. 326,025. 2 Claims. (Cl. 30—11.)



1. A device of the class described comprising a yoke-shaped member having spring extremities, a spring band

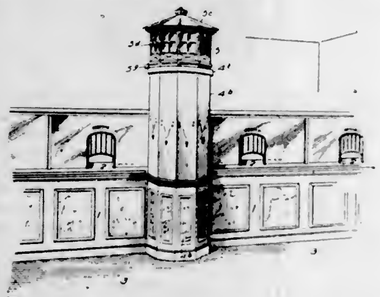
secured to said extremities for engaging the hand, a shank carried by the base of the yoke member, a knife connected with the shank, a second knife pivoted to the first mentioned knife, a sliding member in the yoke member, means for connecting the same with the pivoted knife and a finger engaging part on the sliding member.

1,374,769. COMBINATION-LOCK. JOSEF F. SCHICKE, St. Louis, Mo., assignor to Josef F. Schicke, trustee, St. Louis, Mo. Filed July 19, 1918. Serial No. 245,733. 8 Claims. (Cl. 70—54.)



1. In a combination lock, a bolt, a controller plate having a series of enlarged tumbler-receiving recesses connected by restricted channels, and a plurality of invertible tumblers coöperating therewith, adapted to lock said bolt in locking or unlocking position.

1,374,770. GUARD FOR PROTECTION AGAINST HOLDUP-ROBBERS AND THE LIKE. LEO SIMMONS, Washington, D. C. Filed July 8, 1920. Serial No. 394,721. 13 Claims. (Cl. 89—36.)



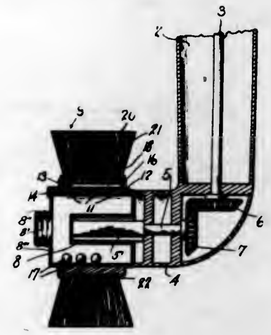
1. A protecting guard embodying a fixed hollow base a guard mounted thereon and consisting of an open-bottom freely horizontally-rotatable cap, a supporting floor secured in said base adjacent the open-bottom of said guard and normally closing the interior of said base from the guard, and means permitting passage through said floor from the base into the guard.

1,374,771. TIRE-CHAIN LOCK AND ELASTIC TAKE-UP. ARTHUR A. SMITH and HARRY W. PAINE, Eagle Grove, Iowa. Continuation of application Serial No. 361,949, filed Feb. 28, 1920. This application filed May 26, 1920. Serial No. 384,456. 3 Claims. (Cl. 267—72.)



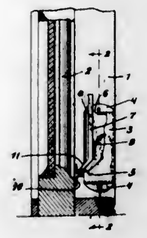
1. A tire chain lock and elastic take-up, comprising oppositely movable bars or slides in face to face engagement, each bar terminating at one end in a loop and at the other end in a lug angularly related to the bar, and a spring surrounding the two bars and holding them in contact and at the ends engaging the respective lugs, the loop of one of the bars being sufficiently open to form a throat to receive a link of the side chain of the tire chain and also the lug of the other bar, said lug entering and substantially closing the open throat of the loop, and the portion of the lug entering the throat end being coactively shaped with reference to the throat whereby to cause the entrance of a link into the throat to automatically force the lug out of the throat in opposition to the tendency of the spring to move the lug into closing relation to the throat.

1,374,772. POLISHING-BRUSH. HENRY SMITH, Hamtramck, Mich. Filed Aug. 23, 1920. Serial No. 405,292. 3 Claims. (Cl. 15—37.)



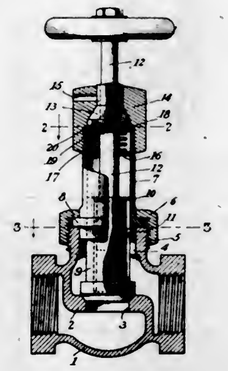
1. In a polishing device, motor operating means, including a shaft, a brush having a hub to which the shaft is secured, said hub being hollow and providing a reservoir for a liquid polish, said hub having peripheral apertures, a slidable valve normally closing the same, the brush comprising sections having head portions which are arranged around the hub and which have their confronting ends contacting, one of said heads having a channel in a line with the apertures of the hub, and having apertures between the bristles and the said channel.

1,374,773. WINDOW-LOCK. THOMAS ALOYSIUS SMITH, Ashley, Pa. Filed Jan. 16, 1920. Serial No. 351,841. 1 Claim. (Cl. 292—228.)



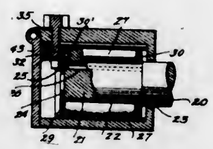
A sash lock comprising a casing having its base provided with end extensions, means for securing said extensions to the window casing, one side and the top end of said casing having openings therein, a lever pivoted in the casing adjacent to the top opening, said lever having a bent lower end passing through the side opening and its upper end passing through the upper opening, a curved spring in said casing having its curved end engaging the lever adjacent the bent end thereof and a lug on the sash for engaging the bent end of the lever.

1,374,774. PACKINGLESS VALVE. RANDOLPH SOLOMON, Alexandria, Va., assignor of one-half to G. Henry Shryock, Herndon, Va. Filed Oct. 27, 1919. Serial No. 333,505. 2 Claims. (Cl. 251—30.)



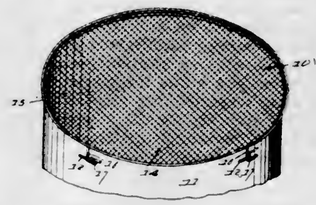
1. A packingless valve comprising in combination a valve casing having a valve seat, a valve adapted to engage said seat and provided with a cylindrical internally threaded portion, a tubular shell adapted to be secured to said valve casing and to inclose the upper portion of said cylindrical part of the valve member, a rod projecting into said shell and threaded at its lower end for engagement with said cylindrical portion and provided intermediate its end with a second threaded portion, a truncated cone shaped bearing member threaded on said intermediate threaded portion of said rod, and a nut inclosing said bearing member and threaded on the end of said shell.

1,374,775. ROLLER-BEARING FOR RAILWAY-TRUCKS. LEO K. STAFFORD, Detroit, Mich., assignor to The Stafford Roller-Bearing Car Truck Corporation, Carlstadt, N. J., a Corporation of New Jersey. Filed Sept. 6, 1919. Serial No. 322,027. 2 Claims. (Cl. 64—62.)



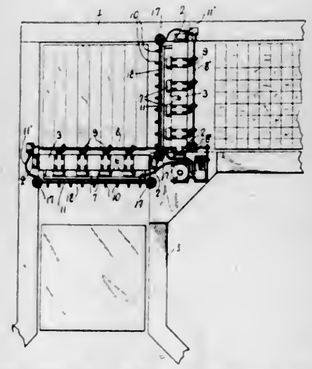
1. In combination with the boxing of the truck of a rolling stock having a round bore provided with a longitudinal groove, of a case hardened steel tube received in the bore, a longitudinal rib on said tube received in said groove, said boxing designed to receive the spindle end of an axle, said spindle having a longitudinal groove, a case hardened steel sleeve having its outer end flanged and provided with an inner longitudinal rib arranged over the spindle and the said rib being received in the groove of the spindle, caged anti-frictional rollers received in the bore, surrounding the spindle and finding a bearing between the sleeve and groove, means for holding the cage against longitudinal movement in both directions, and the means for holding the cage against outward movement being removable.

1,374,776. DRAINER. SIDNEY STANLEY, Springfield, Mass. Filed Mar. 1, 1920. Serial No. 362,205. 2 Claims. (Cl. 53—8.)



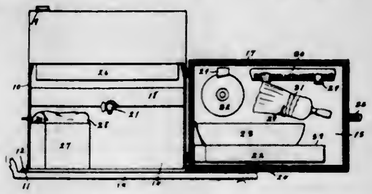
1. A drainer having a perforated diaphragm and tongues extending perpendicularly from the plane of the diaphragm and having terminal, deflected fingers, in combination with a receptacle provided on its wall with transverse open-ended keepers for the reception of said tongues.

1,374,777. ICE-CUTTING MACHINE. ELMER E. STONER, Stroudsburg, Pa. Filed June 17, 1919. Serial No. 304,757. 5 Claims. (Cl. 143—22.)



1. An ice cutting apparatus comprising a supporting frame built in a body of water from which the ice is to be gathered and formed in the shape of a channel through which the blocks of ice are to be passed, a saw frame pivotally mounted in said frame and extending across the channel, said frame having its pivotal points arranged above the water level so that when the frame is swung into horizontal position it will be above the water level, transversely arranged shafts in said saw frame adjacent each side thereof, pulleys on said shafts, band saws carried by said pulleys, means for driving the shafts of one row and manually operated means for swinging the saw frame on its pivot to move the saws into vertical and operative positions or into horizontal and inoperative positions.

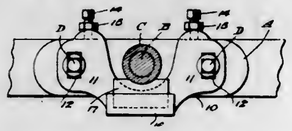
1,374,778. PORTABLE CABINET-LAVATORY. JAMES ARTHUR TERRY, Pocahontas, Iowa. Filed Mar. 20, 1920. Serial No. 367,424. 2 Claims. (Cl. 45—119.)



1. A device of the class described, comprising a portable housing formed with a relatively large opening in one side

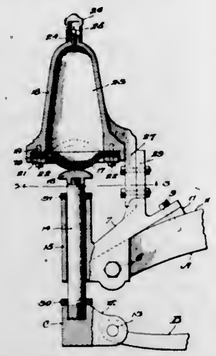
wall, a door hinged on a vertical axis at one side margin to said housing and adapted to close said opening, a water tank being formed in the upper portion of said housing, said water tank being formed with a drain cock on its lower side, a horizontal shelf fixed to the inner side of said door, and a lavatory basin carried by said shelf and adapted to be moved to a position beneath said drain cock and to be inclosed within the housing when the door is shut and being supported in a position for use outside of said housing when the door is in open position, said basin remaining in horizontal position irrespectve of the position of the door relative to the housing.

1,374,779. ROCKER-SHAFT BEARING. RALPH F. THACKSTON, Anderson, S. C. Filed May 29, 1920. Serial No. 385,220. 3 Claims. (Cl. 64—10.)



3. In combination with a frame and picker foot of a loom, the bearing device comprising a bracket structure secured against one face of said frame and provided with means whereby to effect vertical adjustment, a pan-like projection formed integrally upon and projecting from one face of said bracket structure, and a block of wood disposed within said pan and engaging the picker foot whereby to form a bearing therefor.

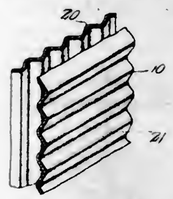
1,374,780. VEHICLE-SPRING. LEWIS IRVINE THOMPSON, Portland, Oreg. Filed Oct. 21, 1919. Serial No. 332,134. 3 Claims. (Cl. 267—65.)



1. In a vehicle, the combination, with a frame member and an axle, of a shoe enveloping an end of and secured to said frame member, a casing containing a compressed-air chamber mounted on said shoe, a continuous sheet-material flexible diaphragm normally exteriorly convex constituting an air-tight closure for said chamber, a guideway coaxial with said diaphragm carried by said shoe, and an element reciprocatory in said guideway connected with said axle.

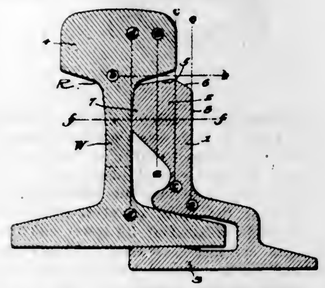
1,374,781. CONDENSER. ROSS EMILE THOMPSON, Deming, N. Mex. Filed Mar. 29, 1920. Serial No. 369,505. 1 Claim. (Cl. 257—245.)

A condenser unit of rectangular form having side walls right angles to those of the other side wall and the corrugated metal, the corrugations of one side wall being at right angles to those of the other side wall and corrugations of each wall paralleling opposite edges of the wall, and intake and outlet pipes opening into the con-



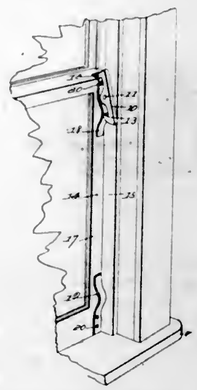
denser at diagonally opposite corners thereof as and for the purpose described.

1,374,782. CONSTRUCTION FOR RAIL-JOINTS. WILLIAM P. THOMSON, New York, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1921. Serial No. 437,898. 11 Claims. (Cl. 238—188.)



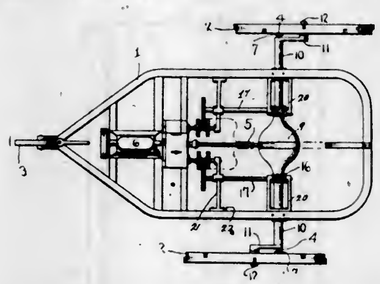
1. A rail joint, including the rail, clamping bolts, and a splice bar having clearance from the under side of the rail head, and an inner head projection which has an upwardly sliding bearing contact with the rail above the center line of the bolt hole.

1,374,783. SASH-LOCK. JOHN H. TIENCKEN, Charleston, S. C. Filed Oct. 7, 1920. Serial No. 415,278. 2 Claims. (Cl. 292—116.)



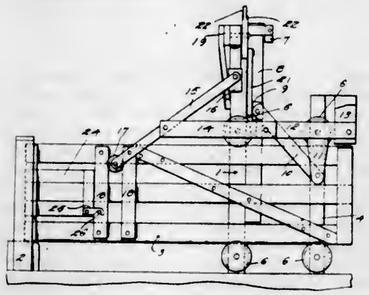
1. A sash locking device consisting of an intermediate fulcrumed rocker mounted for swinging movement in a plane perpendicular to the path of movement of the sash and having oppositely disposed seats or shoulders for respectively engaging the upper and lower edges of the sash and yielding rocker actuating cams carried by the sash for movement in the plane of said rocker.

1,374,784. TRACTOR. JESSE TRIMMER, Traverse City, Mich. Filed July 29, 1919. Serial No. 314,037. 1 Claim. (Cl. 180—41.)



A tractor, including a frame having a prime mover mounted thereon, a stationary axle housing carried by said frame and having its end portions independently rotatable and formed with integral crank arms, traction wheels journaled on said integral crank arms, an axle extending through said housing and having its end portions provided with gears beyond the rotatable sections of said housing, internal ring gears carried by said wheels and in mesh with the gears of said axle, and means whereby the arms of said rotatable housing section may be adjusted about the axis of the housing for adjusting the traction wheels vertically, said prime mover being connected to said axle.

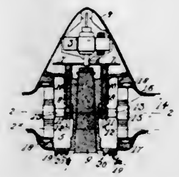
1,374,785. GATE. WALTER B. TRUEMAN, Mattoon, Ill. Filed Jan. 16, 1920. Serial No. 351,885. 1 Claim. (Cl. 39—45.)



A gate comprising a pair of connected supporting posts, a gate mounted on said posts for movement in a horizontal path, a vertical actuating bar slidably mounted on one of the posts, oppositely extending operating means connected to said bar, an arm slidably connected to the gate and pivoted to one of the last named posts and normally occupying an upwardly inclined position, a pair of pivotally connected links pivoted to the other post and to the said slidable arm at a point intermediate the ends of the latter, said links normally lying in parallelism with the gate and in the same horizontal plane to prevent opening of the gate by a direct pull thereon, a downwardly extending extension on one of said links, an operating link pivoted to the lower end of the extension and to the vertically slidable actuating bar at a point above the gate for causing operation of the first links by the bar to open and close the gate.

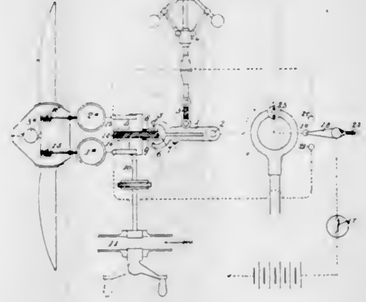
1,374,786. SCREW-PROPELLER. CHARLES BELL WALKER, Moseley, England. Filed July 7, 1920. Serial No. 394,531. 4 Claims. (Cl. 170—163.)

1. Means for altering or reversing the pitch of a screw propeller comprising an electric motor rigidly mounted in the nose of the boss of the propeller and turning as a whole therewith and having its axis disposed in substantially the same direction as the axis of the propeller shaft, a shaft of said motor, a pinion of relatively small diameter on said shaft gearing with a number of pinions of relatively large diameter (one for each propeller blade), shafts



upon which such pinions are mounted, said shafts being parallel to the propeller shaft and turning in bearings which are rigid therewith, and means by which the motion of such shafts is transmitted to the blades of the propeller to turn them in one or other direction to alter the pitch or to cause them to be reversed.

1,374,787. SCREW-PROPELLER. CHARLES BELL WALKER, Moseley, England. Original application filed July 7, 1920, Serial No. 394,531. Divided and this application filed Feb. 18, 1921. Serial No. 446,170. 6 Claims. (Cl. 244—25.)

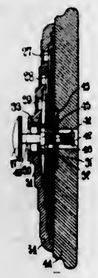


1. Means by which the blades of a propeller may be varied as to pitch automatically with change of altitude or load, comprising a governor, an arm controlled by said governor, a pair of contact points on said arm, a corresponding pair of independently carried contact plates with one of which alternatively one of the said contact points is adapted to make contact, and electrically controlled means whereby, when one of said contact points on said arm makes contact, the pitch of the blades is caused to be increased, and whereby, when the other of said points makes contact, the pitch of the blades is caused to be decreased, according as the speed of the engine increases or decreases.

1,374,788. INDICATING APPARATUS. STANLEY WALKER, Kings Lynn, England. Filed Nov. 1, 1920. Serial No. 421,150. 2 Claims. (Cl. 40—71.)

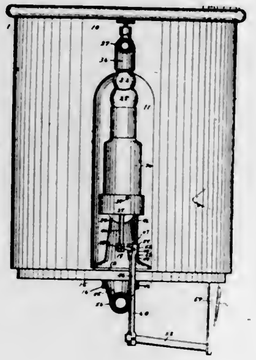
1. In a date reminder or indicator, a plurality of superposed indicating disks rotatable about a common axis, and clutch members carried by the disks and arranged at the centers of the disks adapted to be engaged by clutch mem-

bers on a key in order to rotate the disks to show the desired indication, said disks being provided with centrally



disposed sleeves which carry the clutch members, and the clutch members being spaced apart to permit operation of one disk by the key without operating an adjacent disk.

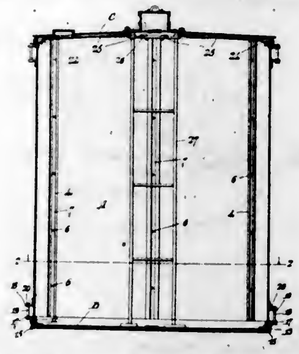
1,374,789. FLUID-PRESSURE FEEDING MECHANISM. GILBERT E. WHITE, Des Moines, Iowa. Original application filed Apr. 15, 1918, Serial No. 228,593. Divided and this application filed Jan. 20, 1919. Serial No. 272,200. 3 Claims. (Cl. 121—117.)



1. In a machine of the class described, a member mounted for rotary travel, a member mounted for reciprocation, a lever pivoted on said reciprocating member, a bell-crank lever suitably fulcrumed, a pawl pivoted on said bell-crank lever and adapted for engagement with said rotary member to cause step by step rotary movement thereof, a link pivotally connecting said lever and bell-crank lever, a rod extending across said lever, a member adapted to be oscillated by said rod, and means on said rod adapted for engagement by said lever to move said rod, such engaging means being so arranged that movement of said rod occurs subsequent to oscillation of said bell-crank lever through said link.

1,374,790. TANK. GAGE WHITMORE, Casper, Wyo. Filed Jan. 17, 1920. Serial No. 351,992. 3 Claims. (Cl. 220—5.)

1. The combination of a tank composed of a plurality of wall and bottom sections, means for connecting the edges thereof together, and angular seaming members connected together and extending around the wall of the tank, the edges of the wall sections adapted to be received between the edges of the angular seaming members and

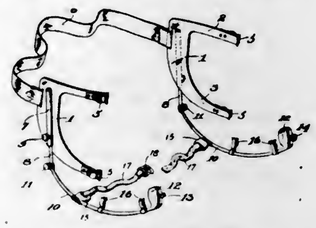


the edges of the bottom sections adapted to be received between the opposite edges of the seaming members for connecting the wall and bottom sections together.

1,374,791. SHEET-DELIVERY FOR PRINTING-MACHINES. CARL WINKLER, Berne, Switzerland. Filed Mar. 18, 1920. Serial No. 366,909. 1 Claim. (Cl. 271—77.)

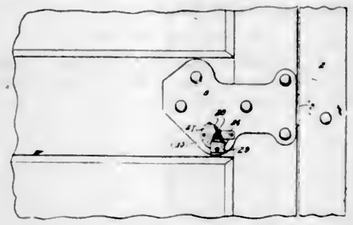
In combination with the impression cylinder of a printing machine, a sheet delivery device, means to periodically drive said device at the same linear speed as the circumference of said impression cylinder, while the sheet is passing from said cylinder to said device and until it has left said cylinder, means to periodically drive said device at a lower speed, a second sheet transporting device adapted to take the sheets from said first device and consisting of endless tapes, transport rollers carrying the end loops of said tapes, a delivery table adjoining said first sheet delivery device, and means to move said loops backward and forward over, and under, said delivery table, substantially as, and for the purpose, set forth.

1,374,792. DENTAL APPLIANCE. EDGAR ERNEST DU PONT WOISARD, Pittston, Pa. Filed Feb. 1, 1921. Serial No. 441,631. 7 Claims. (Cl. 32—20.)



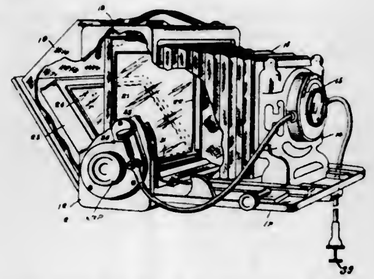
7. A dental appliance including side plates positioned upon opposite sides of the face of the person, tubular members attached to the outer face of said plates and curved bars pivotally and adjustably connected with said tubular members.

1,374,793. LOCK. JOHN WOJCIK, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,579. 4 Claims. (Cl. 70—78.)



1. A lock of the type described comprising a casing, a gravity sliding bolt mounted therein, said bolt having elongated slots and offset recesses communicating with the slots, transverse bolts carried by the casing for supporting the bolt and extending through said slots, a key for elevating the sliding bolt to position the transverse bolts in the elongated slots, rack teeth formed on the upper edge of said bolt and a rotatable gear carried by said casing adapted for engagement with the bolt rack teeth for shifting the bolt within the casing.

1,374,794. CAMERA. JACOB J. WOLF, Jr., New Orleans, La. Filed July 30, 1920. Serial No. 400,216. 10 Claims. (Cl. 95—42.)



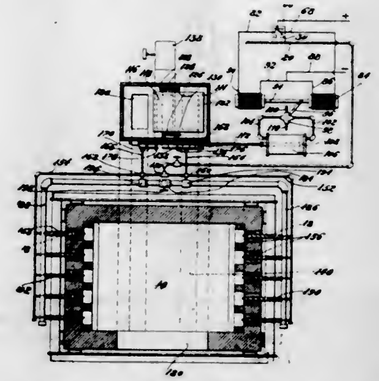
1. In a device of the class described, a focusing glass, means for mounting the latter to swing on a horizontal axis, a mirror mounted to swing rearwardly from the lower portion of said glass, and a film holder mounted in the rear of the mirror and adapted to swing on said horizontal axis.

1,374,795. HOE. JOHN W. WOOD, Covington, Tenn. Filed Dec. 23, 1919. Serial No. 346,895. 3 Claims. (Cl. 55—39.)



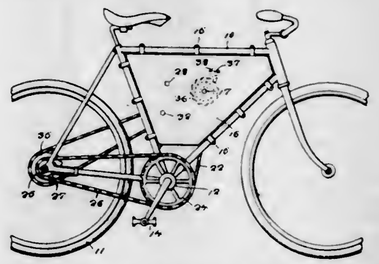
1. A double bladed hoe comprising a shank for each blade of the hoe, a handle supported by said shanks, said shanks being spaced to space the blades, apertured lugs carried by said shanks, said lugs being arranged in parallelism and projecting beyond the opposite sides of the respective shanks, and adjustable connecting elements associated with said lugs and arranged at opposite sides of the shanks to reinforce the latter.

1,374,796. GAS-FURNACE. CARL J. WRIGHT, Toledo, Ohio. Filed June 11, 1919. Serial No. 303,365. 22 Claims. (Cl. 158—7.5.)



1. The combination with a furnace of a pair of heat regenerators adapted to alternately heat the air passing to the furnace and to be heated by the products of combustion from said furnace, means for supplying fuel gas to said furnace, and means controlled by the volume of gas supplied to the furnace for reversing the flow of air through said regenerators.

1,374,797. SPRING-MOTOR FOR BICYCLES. DANIEL ZABORSKY, Chicago, Ill. Filed Oct. 30, 1918. Serial No. 260,415. 1 Claim. (Cl. 208—23.)



The combination with a bicycle provided with a coaster brake, of a casing secured within the frame of the bicycle, a spring motor housed within the casing, an extra sprocket located upon the crank shaft of the bicycle, a sprocket located upon one side of the casing and connected to the extra sprocket by means of a chain, whereby operation of the crank shaft will wind the motor, an extra sprocket connected to the drive wheel of the bicycle, a second sprocket located upon the outside of the casing and operatively connected to the spring motor and a chain connecting this last mentioned sprocket with the extra sprocket of the drive wheel, whereby operation of the motor will impart movement to the drive wheel.

1,374,798. VEHICLE-WHEEL. WILLIAM N. ALLAN, San Antonio, Tex. Filed June 2, 1920. Serial No. 386,004. 7 Claims. (Cl. 152—8.)

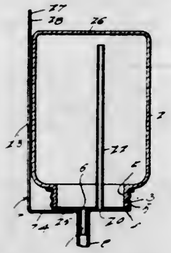
7. In a device of the class specified, a disk having a laterally flanged periphery to serve as a stop means, the

disk also having reversely arranged sockets in alternation therearound and directly formed therein, a tread unit surrounding and spaced from the periphery of the disk, spring units connected to the tread unit and having inner



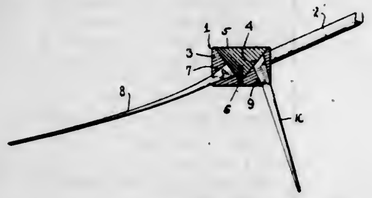
extremities formed with sockets disposed in alternation opposite the sockets of the disk, and antifrictional devices interposed between and engaging the sockets of the spring units and disk.

1,374,799. FOUNTAIN-SYRINGE. APOLLOS P. AMES, Tacoma, Wash. Filed May 16, 1917. Serial No. 169,024. 1 Claim. (Cl. 128—227.)



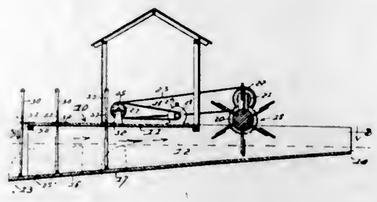
As a new article of manufacture, a cap having a liquid discharge pipe extended therefrom in one direction and a vent pipe extended in the opposite direction, and a suspending member carried by said cap, whereby the cap may be suspended in inverted position with an inverted conventional liquid container such as a preserve jar secured thereon in inverted position to convert the jar into a fountain syringe, the liquid discharge tube being adapted to receive a flexible nozzle carrying discharge tube.

1,374,800. COMBINED RAKE AND FORK. FRED HOWARD ANDERSON, Camden, N. J. Filed Oct. 25, 1919. Serial No. 333,203. 2 Claims. (Cl. 306—45.)



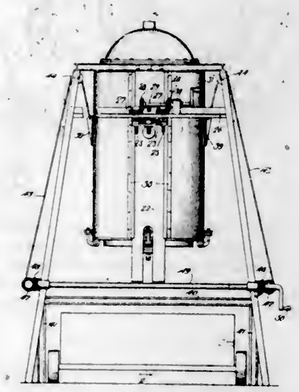
1. A device of the class described comprising a head having a V-shaped recess in its upper face and sockets of tapered shape passing through the head and opening into one side of the recess, teeth having enlarged ends fitting in said socket and a V-shaped cover member fitting in said recess for holding the teeth in position and a handle connected with the head.

1,374,801. CURRENT-MOTOR. WILLIAM J. ANTLEY, Yonges Island, S. C. Filed Feb. 12, 1920. Serial No. 358,262. 3 Claims. (Cl. 170—104.)



1. A current motor having a chute provided with an upwardly and forwardly inclined bottom wall, and a water wheel arranged for operation by flow through the chute, said chute being provided in its bottom with a plurality of outlet openings and convertible valves and baffles fitted to said openings and adapted for arrangement in obstructing relation to the flow of water through the chute.

1,374,802. ELECTRIC FURNACE. EDWIN APPLEBY, Chicago, Ill. Filed Nov. 19, 1919. Serial No. 339,052. 8 Claims. (Cl. 204—64.)

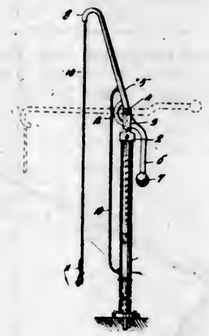


1. In a furnace, the combination of a frame, a vertically disposed crucible mounted on said frame and comprising a pair of relatively shiftable telescoping receptacles, means for heating the contents of said crucible, mechanism for vertically shifting one of said receptacles in said frame, the lower one of said receptacles comprising side walls in combination with a bottom member detachably secured thereto whereby the contents of said lower receptacle may be discharged through the lower end thereof.

1,374,803. AIR-HOSE SUPPORT. STEAD A. ASQUITH, Waterloo, Iowa. Filed Feb. 10, 1920. Serial No. 357,669. 2 Claims. (Cl. 221—73.5.)

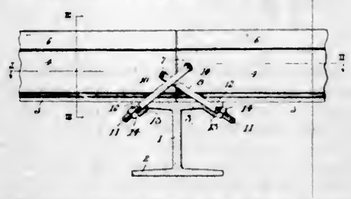
1. In combination with an air hose of a support consisting of a vertical hollow post, a collar situated upon the top end of said post, standards diametrically opposed and vertically extending from said collar, a lever pivotally mounted between said standards, said lever provided

with a handle having a weight at its extremity for normally holding the same in a substantially vertical position,



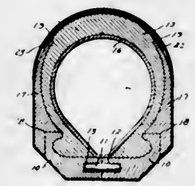
the other end of said lever provided with a hook shaped portion having a slot therein, said hose adapted to extend through said lever.

1,374,804. RAIL-JOINT AND FASTENER THEREFOR. JOSEPH BAKOVICH, Herminie, Pa. Filed Feb. 2, 1921. Serial No. 441,880. 3 Claims. (Cl. 238—151.)



1. A rail joint and fastener comprising meeting rail ends having an aperture in each web portion, V-shaped fastening members passing through said apertures, a supporting tie for the rail ends and means for anchoring the ends of the fastening members to the tie.

1,374,805. PROCESS OF AND MOLD FOR REBUILDING TIRES. HAROLD G. BALLOU, Los Angeles, Calif. Filed Nov. 18, 1919. Serial No. 338,854. 3 Claims. (Cl. 18—38.)



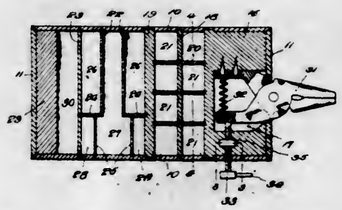
1. A mold for rebuilding tires comprising a plurality of bead-forming sections, means for retaining said bead-forming sections together, a plurality of side-body-forming sections, and an expansible tread-forming element adapted for interengagement with the side-body-forming elements to secure the latter in operative position with respect to the bead-forming sections and the tire.

1,374,806. METHOD OF WOOD PROTECTION. PAUL BARTSCH, Washington, D. C. Filed Oct. 23, 1920. Serial No. 419,063. 6 Claims. (Cl. 99—12.)

1. The hereindescribed method of protecting wood which consists in the complete dehydration of the wood and subsequent saturation of the wood with poison encapsuled or sealed within the wood by a substance insoluble in water.

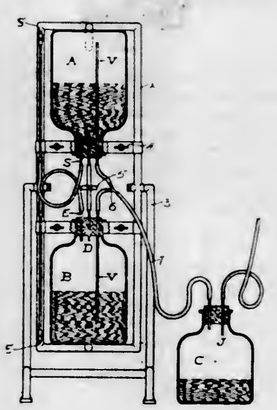
6. The hereindescribed method of protecting wood from destructive organisms, which consists in deresinizing the wood by means of a solvent, removing the solvent and resin, replacing this with a chemical that will not only replace the resin solvent but will, in turn, be replaced by an aqueous solution of arsenic and copper, then chemically dehydrating the wood to cause precipitation of the poisons, then replacing the dehydrant by a paraffin solvent and finally replacing the paraffin solvent by poisoned paraffin.

1,374,807. ANGLER'S CABINET-VISE. WILBUR L. BEATY, South Butte, Mont. Filed Apr. 16, 1919. Serial No. 290,622. 2 Claims. (Cl. 7—15.)



1. A device of the character described including a block having a recess, a vise having crossed pivotally connected jaws extending at their inner end portions into said recess, one of the jaws being secured to the block within the recess, and means mounted upon the block projecting into said recess to coact with the other of said jaws for shifting such jaw toward the first jaw.

1,374,808. SUCTION-PUMP. CHARLES W. BETHUNE, Buffalo, N. Y. Filed Dec. 26, 1917. Serial No. 208,893. 3 Claims. (Cl. 128—276.)

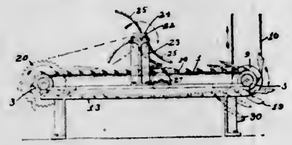


1. A vacuum pump comprising diametrically disposed containers, a tube communicating with the ends of the containers, a tube connecting the inner ends of the containers, and combined seal and relief tubes, one for each container and extending from the inner ends thereof to points adjacent their outer ends respectively.

1,374,809. MACHINE FOR DRYING FEATHERS. JOHN BIASOTTI, New York, N. Y. Filed Jan. 12, 1920. Serial No. 350,990. 7 Claims. (Cl. 34—12.)

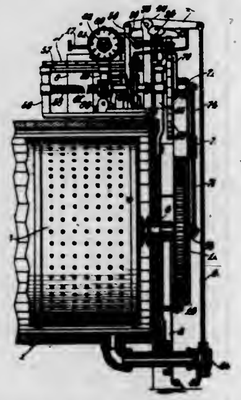
6. In a machine of the class described, a pair of endless belts spaced apart and running over pulleys at both ends, means carried by said belts for holding articles to be dried, a rotatable support and a plurality of flexible flails attached thereto and mounted adjacent said belts whereby said flails are caused to successively beat the articles held thereon as the support and flails are rotated, a mem-

ber positioned in the path of the articles presenting an inclined surface against which the articles are caused to



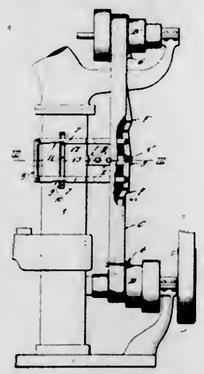
engage as the same are carried along by said belts, means for driving said belts, and means for rotating said flails.

1,374,810. CONTROLLING MECHANISM FOR LAUNDRY-MACHINES. THEODORE BIRKENMAIER, St. Louis, Mo. Filed June 25, 1917. Serial No. 176,901. 9 Claims. (Cl. 68—18.)



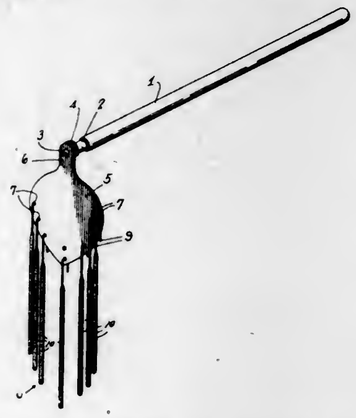
1. A controlling device adapted to be attached to a laundrying mechanism having driving mechanism therefor, said device comprising automatic mechanism, adapted to be connected with and operated by said driving mechanism and operating after a predetermined operation of said laundrying mechanism to definitely stop the operation of said laundrying mechanism, and means for adjusting the connection between said driving mechanism and said automatic mechanism.

1,374,811. BELT-SHIFTING DEVICE. FRANK A. BONROE, Webster Groves, Mo. Filed Nov. 1, 1919. Serial No. 335,159. 2 Claims. (Cl. 64—4.)



1. A belt shifting device of the character described comprising a pair of pivotally supported belt shifting arms, toothed operating rods for moving said arms, keepers engaged by the teeth on said rods for selectively controlling the movement of the rods, and a handle connecting said rods.

1,374,812. SAFETY-HOLDER FOR SPARKLERS AND THE LIKE. ANNIE M. BOWIE, Washington, D. C. Filed Dec. 4, 1920. Serial No. 428,324. 2 Claims. (Cl. 102—20.)



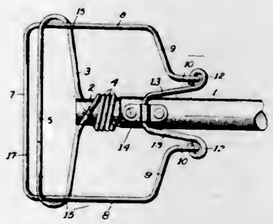
1. A holder for sparklers and analogous fire works, comprising a handle, and a swinging body disposed at one end of and at right angles to the handle and pivotally connected adjacent to one end therewith whereby manipulation of the handle will be attended by swinging of the body about its pivot; the said body being in the form of a plate with an aperture adjacent to its edge for the attachment of a sparkler or analogous fire works.

1,374,813. HALF-TONE SCREEN. CHARLES L. A. BRASSEUR, Orange, N. J. Filed Mar. 26, 1915, Serial No. 17,251. Renewed Sept. 4, 1920. Serial No. 408,309. 6 Claims. (Cl. 95—81.)



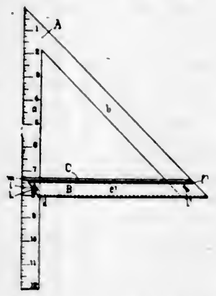
1. In a half-tone screen, a support surfaced with irregularly disposed transparent and opaque areas, the transparent areas or units on any one screen being substantially of uniform size.

1,374,814. MOP-HOLDER. WILLIAM P. BRENEMAN and HERBERT G. ROWELL, Auburn, Me. Filed Dec. 27, 1920. Serial No. 433,173. 2 Claims. (Cl. 15—56.)



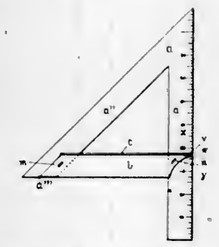
1. A mop holder comprising a handle, a head piece secured to said handle, a single clamp member passing through said head piece and said clamp member comprising two side arms and an outer cross bar, a retaining member on said handle, a bridge piece connecting the side arms of said clamp member, a portion of said bridge piece fitting beneath the said retaining member, the said side arms extending parallel with the handle for a greater portion of their length when said clamp member is in its closed position, and said side arms provided with offset portions near their outer end, passing beneath the outer portion of the headpiece, and again extending upwardly to the cross bar, which cross bar is in a plane above that of the plane of the outer portion of the head piece.

1,374,815. MITER-SQUARE. RICHARD A. BREUL, Bridgeport, Conn. Filed Sept. 5, 1918. Serial No. 252,712. 3 Claims. (Cl. 33—96.)



1. In a miter square comprising a V shaped plate having a miter shank and a longer squaring shank, and a beam U-shaped in cross section having square flanges and being formed from a sheet metal blank, these parts being secured together to form a figure 4, the herein described improved integral beam construction, consisting of a tempered metal plate resting upon and rigidly attached to the squaring flanges of the U beam, the shape of said metal plate conforming to the outline of the beam flanges.

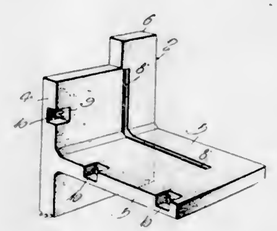
1,374,816. MITER-SQUARE. RICHARD A. BREUL, Bridgeport, Conn. Filed Dec. 16, 1919. Serial No. 345,375. 1 Claim. (Cl. 33—96.)



As an article of manufacture a miter square consisting of a main plate having a miter shank and a graduated shank, of a beam U shaped in cross section and having squaring flanges, said beam connecting said shanks, and a loose sheet metal cover engaging and surrounding said squaring flanges, of the end of the beam engaging the graduating arm having the flanged portions and the cover thereon extended, and the U shaped part connecting the flanges being cut away, as and for the purpose described.

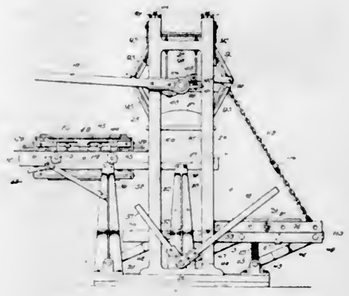
1,374,817. WATER-CHECK FOR DITCHES. EARL F. BRIDGES and CHESTER K. WARD, Lincoln, Nebr. Filed Aug. 6, 1920. Serial No. 401,598. 5 Claims. (Cl. 61—29.)

1. A water check for ditches comprising a unit for transverse disposition in the ditch, including a horizontal splash-member for disposition on the bottom of the ditch, an anchoring leg, and a vertical wall rising from one end of said member, forming a dam, said member and wall



having communicating grooves at their opposite ends, and end plates seated in said grooves, serving to protect the vertical side-walls of the ditch, against which they are placed.

1,374,818. BLOCK-PRESS. WILLIAM C. BURRELL, Kankakee, Ill., and JOHN BELLINGHAM, Masterton, New Zealand, assignors to said Bellingham and William Boyce Chennells, Masterton, New Zealand. Filed Dec. 14, 1917. Serial No. 207,070. 41 Claims. (Cl. 25—45.)



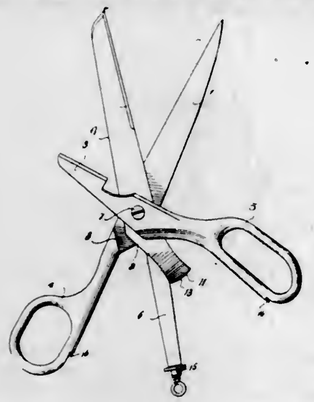
1. In a block press, the combination with a downwardly discharging mold, of a table frame mounted in the press for movement in a constantly horizontal position toward and from the bottom of the mold through an arcuate path, a table glidingly mounted on said table frame, and vertical guides fixed in the press and engaged by the table whereby the table is reciprocated vertically during the movement of the table frame.

41. In a block press, the combination with a main frame, of a downwardly discharging mold trunnioned therein on a horizontal axis and shaped to form in horizontal position and discharge without movement from said position a block which is heavier on one side of the axis than on the other, and a constantly horizontal table vertically reciprocable beneath the mold and movable into contact therewith whereby said block is discharged and carried from the mold in horizontal position.

1,374,819. SHEARS. JOHN H. BYER, Orrtanna, Pa. Filed July 16, 1920. Serial No. 396,651. 2 Claims. (Cl. 30—13.)

1. A device of the class described comprising a pair of main blades and a third blade coöperating with the rear edge of one of the other blades, said third blade engaging

the outer face of one of the main blades and this main blade having a straight shank fitting between the handles



of the other blades, a spring latch on the end of said shank and pins on the handles for engaging said latch.

1,374,820. BRUSH. CASSIUS E. CAZEL and JOHN W. LE CRAW, Cincinnati, Ohio. Filed July 1, 1920. Serial No. 393,249. 1 Claim. (Cl. 15—30.)



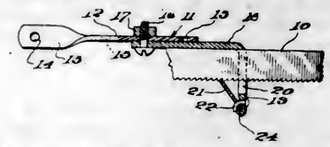
A brush head comprising a member of channel-shaped cross-section, a spacing block disposed in said member and spaced from the inner walls thereof, a piece of wire resting on the inner edge of the block and extending beyond the ends thereof, a plurality of bristles folded over said wire and block, the folds of the bristles being seated in the channel, the opposite ends of the aforesaid wire being bent laterally and then inwardly toward each other around the end-most bristles, thus preventing endwise displacement of the bristles, and fastenings passing through the member and into the block, binding the bristles between the block and member.

1,374,821. FIGURE TOY. BERTHA CLARK, Brooklyn, N. Y. Filed July 14, 1920. Serial No. 396,160. 4 Claims. (Cl. 46—40.)



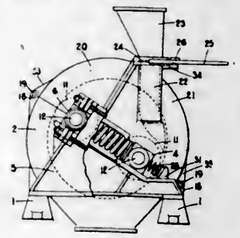
1. The herein described figure toy comprising a body composed of a clothes pin having a transverse hole through it near its upper end and a socket in the top of its knob, a member having a pin removably fitted in said socket and with the knob simulating a head, a rod rotatively mounted through said hole, and small clothes pins whose bifurcated ends are pivoted to the extremities of said rod to simulate arms.

1,374,822. HOLDER FOR HACKSAW-BLADES. HENRY G. COCHEU, New York, N. Y. Filed Aug. 26, 1919. Serial No. 319,930. 3 Claims. (Cl. 145—35.)



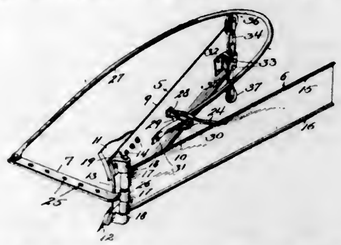
1. The combination with a saw frame including an adjustable member having an attaching pin, of a saw blade holder including a body having an attaching portion arranged to detachably engage said pin and a relatively long flat carrying portion arranged at right angles to the attaching portion, a saw blade carrying bar adjustably connected to the carrying portion and provided with a right angular downturned slotted end arranged at right angles to the saw blade for slidably receiving the saw blade, and a pivoted dog carried by the free end of said downturned end and arranged to project upwardly therefrom for engagement with the teeth of a saw.

1,374,823. CRUSHING-MILL OF THE ROLLER AND RING TYPE. CHARLES MARKHAM CONDER and GODFREY TWYNAM VIVIAN, Camborne, England. Filed Dec. 10, 1920. Serial No. 429,756. 1 Claim. (Cl. 83—45.)



A machine for crushing materials including a frame, an anvil supported by the frame, a pair of shafts, movable bearing blocks supported on the frame in which the shafts operate, crushing rollers mounted on the shafts and adapted to coöperate with the anvil, resilient means disposed between the bearing blocks for normally urging them away from each other, and resilient means normally exerting a pressure on one of the bearing blocks to urge the same toward the opposite bearing block.

1,374,824. ROAD SCRAPING, GRADING, AND DITCHING MACHINE. GEORGE R. COOK, Carrollton, Ga., assignor of one-half to Alonzo O. Turner and one-half to James B. F. Dial, Carrollton, Ga. Filed Aug. 2, 1919. Serial No. 314,846. 6 Claims. (Cl. 37—5.)



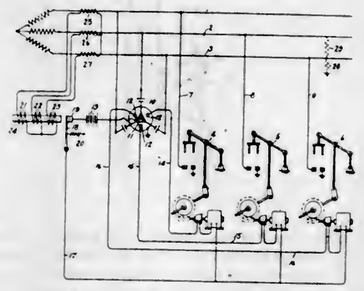
1. A road scraping, grading and ditching machine comprising a mold board provided with upper and lower cutting points at its front end and with a bridge bracket at the inner side of its rear end, a slide hinged at its front end to the similar end of the mold board, the mold board and slide both having upper and lower working edges to render the same reversible, a draft bar connected to the front extremities of the mold board and slide, and a draft rod secured to the outer end of the draft bar and extending around the rear end of the mold board and secured to the said bridge bracket and the mold board in advance of the bracket.

1,374,825. SANITARY MILK-DRIP CATCH-BASIN. WILSON S. CORLIS, Mount Vernon, N. Y. Filed Oct. 25, 1919. Serial No. 333,196. 2 Claims. (Cl. 221—98.)



1. A sanitary cover for milk cans, comprising a funnel having a cylindrical lower portion adapted to be inserted in the mouth of the usual delivery milk can, and an upper flaring or funnel-shape portion concentric with the lower portion and provided with a hinged lid, and a partition member soldered along its bottom and lateral edges to the inner wall of the funnel portion to thereby form a pocket extending within the inclosure of the funnel, whereby any drippings from a dispensing vessel will be caught by said pocket.

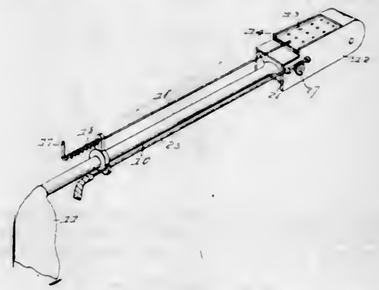
1,374,826. PROTECTIVE DEVICE. ELMER E. F. CREIGHTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 9, 1917. Serial No. 153,751. 9 Claims. (Cl. 175—294.)



1. The combination with an electric transmission line, of an arcing ground suppressor, a control circuit therefor, and means operative in response to an arcing ground accompanied by short circuit conditions between phases to render said control circuit inoperative.

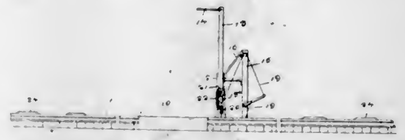
1,374,827. COTTON-PICKER. JAMES P. CRUISE, Carpenter, Miss. Filed June 19, 1919. Serial No. 305,280. 4 Claims. (Cl. 56—32.)

2. A cotton harvesting nozzle having a suction tube and an elongated hollow head in communication therewith and provided with a side inlet opening, the mouth of the suction tube being diagonally disposed with reference to the plane of said inlet opening, cotton picking devices consisting of an endless carrier mounted for movement in the head between said suction mouth and inlet opening and



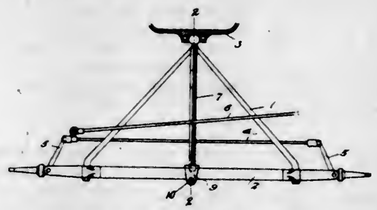
parallel with the plane of the latter and provided with serrated plates or wings, and means for operating said carrier.

1,374,828. RAILROAD-CROSSING GATE. LESTER DAVIDSON, Fisher, Ill. Filed Oct. 4, 1919. Serial No. 328,345. 3 Claims. (Cl. 246—302.)



1. The combination with a pivotal counter-balanced crossing gate and clutch mechanism for securing the same in its extended or operative position, of successively operative trip mechanisms flexibly connected respectively with said gate and clutch for operating and releasing the gate, the gate operating trip having a movable shoe, located adjacent to a track rail and pivotal supporting means yieldingly held in normal position for returning the shoe to its operative position, one of said means being constructed to permit depression of the shoe.

1,374,829. RADIUS-ROD BRACE. ALVA G. DAVIS, Center, Ky. Filed Dec. 16, 1919. Serial No. 345,264. 1 Claim. (Cl. 267—66.)

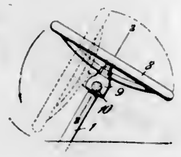


In combination with a front axle and radius rod of an automobile, a brace rod having a forked end for engaging the radius rod at the junction of its two arms, the other end of said brace rod engaging the web of the front axle, a U-shaped bracket slidably mounted on said brace rod and embracing the axle and a bolt passing through the limbs of the bracket for holding the same in place on the axle.

1,374,830. STEERING-WHEEL MOUNTING. ERNEST FOSTER DAVIS, Elmira, N. Y., assignor to Fred J. Lesh and Clarence G. Wood, Muncie, Ind. Filed Oct. 27, 1919. Serial No. 335,046. 3 Claims. (Cl. 74—33.)

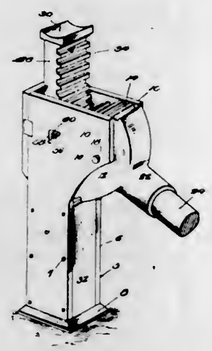
2. In combination with the steering column and the steering wheel, of a sleeve secured to the column, a hous-

ing inclosing the sleeve and pivoted thereto and having an extension for receiving the wheel, means for securing the wheel in place, and a plunger movable in the housing,



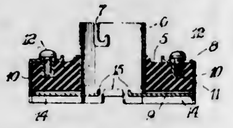
a spring normally pressing the plunger toward the column, and a nut for holding the sleeve in place and having the outer end of its bore plain for engagement by the plunger.

1,374,831. LIFTING-JACK. WILLIAM L. DAY, Williamsport, Pa. Filed June 9, 1920. Serial No. 387,575. 1 Claim. (Cl. 254—115.)



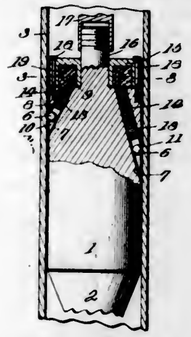
A lifting jack comprising a hollow standard, a lifting bar arranged within said standard and provided with a plurality of inclined locking teeth, a pawl pivoted to said standard, said standard being provided with an L-shaped slot having vertical and horizontal communicating branches, a releasing device in the form of a length of metal having one end portion extended laterally and engaged with said pawl and its other end portion extended laterally in the opposite direction and operating in the vertical and horizontal branches of said L-shaped slot, yieldable means urging the pawl into engagement with the locking teeth on the lifting bar, and means for operating said lifting bar.

1,374,832. VACUUM-TUBE BASE. HAROLD POTTER DONLE, Meriden, Conn., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn., a Corporation of Connecticut. Filed Sept. 27, 1919. Serial No. 326,914. 7 Claims. (Cl. 250—27.)



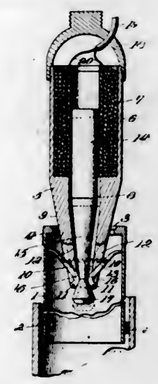
1. In a device of the character described, a base of insulating material having a plurality of studs embedded therein, a terminal strip secured to the base by each stud having an outer terminal portion and bent around the edge of the base and provided with a lower contact portion, and a socket for the tube.

1,374,833. ELECTRICALLY-CONTROLLED PULLER FOR OIL-WELL CASINGS. WILLIAM D. DOOLEY, Dallas, Tex., assignor, by mesne assignments, to L. D. Bowser, Dallas, Tex. Filed Apr. 26, 1920. Serial No. 376,631. 6 Claims. (Cl. 294—96.)



1. A casing puller, comprising a body having a plurality of normally projecting locking members and a plurality of electromagnets for holding the locking members in their unlocked positions.

1,374,834. MAGNETICALLY-OPERATED OIL-WELL FISHING-TOOL. WILLIAM D. DOOLEY, Dallas, Tex., assignor, by mesne assignments, to L. D. Bowser, Dallas, Tex. Filed Apr. 26, 1920. Serial No. 376,632. 6 Claims. (Cl. 294—94.)

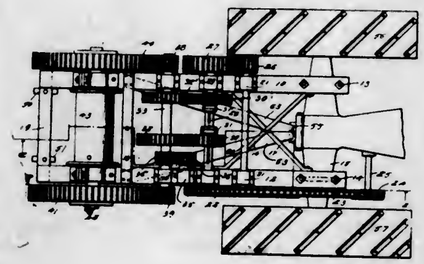


1. A fishing tool of the character described, comprising a housing having at its upper end an electric magnet, its lower end tapered and provided with outwardly movable dogs, an armature actuated by the coil and constructed to throw the dogs outward for the purpose described.

1,374,835. STUMP PULLING AND SKIDDER ATTACHMENT FOR TRACTORS. HENRY AUGUSTAS DORSEY, Enterprise, Ala. Filed Oct. 13, 1920. Serial No. 416,631. 1 Claim. (Cl. 254—166.)

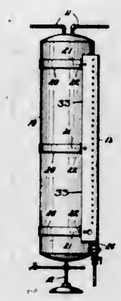
In an attachment for a tractor, a main frame including a plurality of side bars, means for connecting the frame to the axle of the tractor, a shaft mounted in the frame, a sprocket wheel carried by the shaft, means for driving the sprocket wheel, a drum and a shaft for mounting the drum, an intermediate shaft, a gear wheel mounted thereon, a pinion mounted on the shaft first named and of reduced diameter compared with the diameter of the gear wheel, an additional shaft, pinions mounted thereon,

gear wheels of relatively large diameter compared with the pinions last named and mounted on the shaft of the drum, a countershaft, means for transmitting movement



from the intermediate shaft to the additional shaft at a reduced speed, and means for transmitting movement through the countershaft to the additional shaft at approximately the speed of the intermediate shaft.

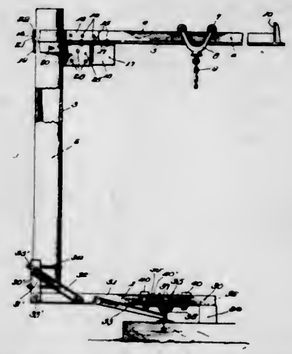
1,374,836. HEATER. JOHN THOMAS DUCKWORTH, Philadelphia, Pa., assignor to Frederick M. Rapp, Philadelphia, Pa. Filed Apr. 3, 1920. Serial No. 371,159. 2 Claims. (Cl. 263—5.)



1. A heater for vertically disposed vessels comprising a trough shaped shield having its upper end closed in and provided along its edges with projecting lugs serving to space the shield from the vessel to which it is assembled, air and lighting apertures in the walls of the trough shaped shield, strap members attached to one of the walls of the shield, buckle members hingedly connected to the opposite wall of the shield, for coöperation with the strap members, and a burner pipe supported within the angular portion of trough shaped shield.

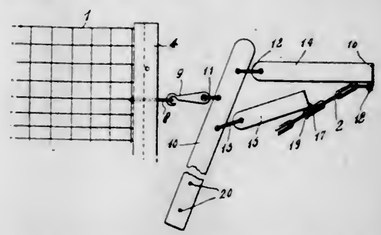
1,374,837. PORTABLE CRANE. JAMES DYKES, Marinette, Wis. Filed Dec. 26, 1919. Serial No. 347,342. 8 Claims. (Cl. 212—63.)

2. In a device of the class described, a mast, a boom, an annular head carried at the inner end of the boom and rotatably fitting the mast, a collar upon the mast supporting the head against downward movement, a bearing member carried by the boom and having a web one edge of which is located contiguous to the mast, the said edge portion of the web being formed with a transverse recess, a bearing element seated in the recess and riding against the mast, and a retaining member having side portions, the said member being disposed to straddle the



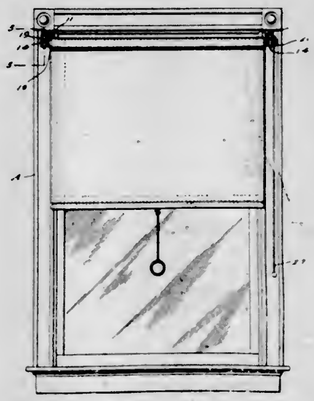
web with its side portions closing the opposite ends of the recess.

1,374,838. WIRE-STRETCHER. LOUIS F. EDWARDS, Noble, La. Filed Aug. 16, 1920. Serial No. 403,893. 3 Claims. (Cl. 254—75.)



1. A wire stretcher comprising a lever, and a pair of claws loosely carried by the lever at opposite sides of its fulcrum point, said claws composed of flat bars bent at substantially right angles and provided with double and spaced teeth extending laterally therefrom, substantially as described.

1,374,839. ADJUSTABLE SHADE-ROLLER. PETER ENGLERT, Lock Haven, Pa. Filed Apr. 10, 1920. Serial No. 372,916. 2 Claims. (Cl. 156—27.)



2. The combination with a shade roller having its spring actuated shaft projecting beyond the opposite ends there-

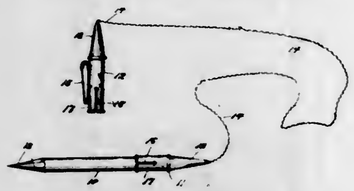
of, of spools carried by the projecting ends of said shaft, flexible elements suspended from the window frame and having their lower corresponding ends secured to said spools, and adapted to be wound and unwiund therefrom with the lowering and raising of the shade, a substantially U-shaped element carried by each end of said shaft and vertically disposed, the limbs of said element being arranged at the opposite ends of the adjacent spool, the cross piece of each element having a slot through which the adjacent flexible element is passed, and constituting a guide for the latter, a disk carried by one end of said shaft and having notches, a pivoted latch element carried by the U-shaped element and having an offset extremity adapted to be received in one of the notches in said disk, to hold said shaft fixed relatively to said roller, means for operating the latch from a remote point, and means for limiting the movement of the latch in one direction.

1,374,840. APPARATUS FOR TEACHING DANCING. SIDNEY E. FEIST, Brooklyn, N. Y. Filed July 22, 1920. Serial No. 398,277. 7 Claims. (Cl. 35—16.)



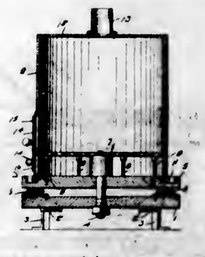
1. An apparatus for teaching dancing comprising a figure, a track and means suspended from said track for supporting the figure so that the figure may swing, rotate and at the same time move in a substantially circular path in a general horizontal direction.

1,374,841. PENCIL-HOLDER. ABRAHAM FINKELSTEIN, Philadelphia, Pa. Filed Aug. 20, 1920. Serial No. 404,724. 1 Claim. (Cl. 24—12.)



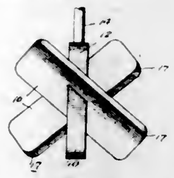
A pencil carrying device comprising a cap adapted for engagement upon the sharpened end of a pencil and including a split cylindrical portion and a conical point projecting portion, a safety pin device carried by said cap whereby to hold the same directly upon a garment, a similar cap frictionally engaged upon the other end of the pencil, and a chain connecting said caps at the extremities of the conical portions, both caps being formed of sheet metal and being resilient.

1,374,842. PORTABLE COOKER. MARTIN FINNEMANN, Kimball, Minn. Filed Oct. 30, 1919. Serial No. 334,402. 4 Claims. (Cl. 126—58.)



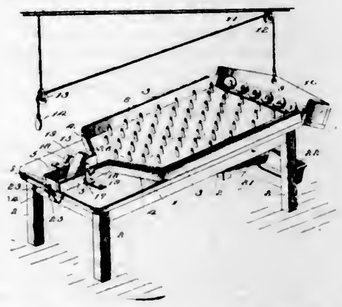
1. A portable stove comprising a main base, a vertical pivot member secured centrally of the base, an auxiliary base rotatably mounted on the pivot member and arranged above and in spaced relation to the main base, said pivot member extending above the auxiliary base, a grate rotatably secured to the upper end of the pivot member, a drum inclosing the grate and secured to the auxiliary base and having a doorway extending above and below the grate, and doors arranged one above the other for closing the doorway and one door being arranged above the grate and the other door arranged below the grate, said doors capable of moving independently of each other.

1,374,843. CHURN-DASHER. JAMES E. FLAHERTY, St. Louis, Mo. Filed Oct. 9, 1920. Serial No. 415,720. 2 Claims. (Cl. 259—134.)



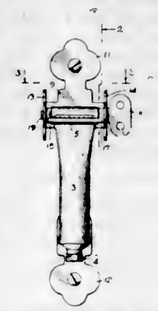
1. A churn dasher comprising an upstanding flat central member having rounded lower corners and inclined upper corners, said member being adapted for connection at its upper end with a handle, said member being formed in opposite edges with slots converging downwardly toward the center and oppositely inclined laterally with respect to the flat faces of the member, and a pair of paddle blades disposed within said slots.

1,374,844. GAME. JOHN L. FLATOW, Washington, D. C. Filed Oct. 22, 1920. Serial No. 418,635. 5 Claims. (Cl. 46—57.)



1. A game apparatus comprising an inclined table, a goal at the lower end of the table, a plurality of rolling objects to travel over the table to the goal, and a gate mounted in the goal for swinging movement in a vertical plane constructed and arranged to be actuated by one of the rolling objects whereby to admit the same to the goal and exclude the remaining objects.

1,374,845. COLLAPSIBLE-TUBE HOLDER. JOHN HENRY GIBBS, West Orange, N. J. Filed Sept. 30, 1919. Serial No. 327,368. 2 Claims. (Cl. 221—60.)



1. A holder for collapsible tubes comprising a body formed with a central tube carrying portion, depressed end sections adapted to receive securing means, a pair of upstanding ears arranged on one of said end sections, and a rotatable collapsing key mounted in said ears and adapted to engage the end of the tube, said tube being arranged on the central tube carrying portion, said key being arranged on a vertical line spaced horizontally away from said tube carrying section by a distance equal to approximately half the thickness of the tube so that upon the rotation of the key, the tube will be collapsed and pressed against said tube carrying portion.

1,374,846. REPAIRING TIRE-CASINGS. FREDERICK D. GOODLAKE, West Palm Beach, Fla. Filed Apr. 25, 1919. Serial No. 292,537. 1 Claim. (Cl. 152—26.)



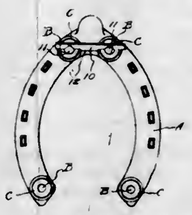
A repaired rim-cut tire casing comprising the casing side portion from which an area of the outer rubber layer has been removed, a plurality of textile layers straddling said portion, interposed cement layers connecting said textile layers together and to the casing side portion; the inner textile layer being smaller in area than the cut removed portion in the casing side and the other textile layers being increased in area as they recede from the casing side portion to afford feather edges at the ends and side edges of the repair means, an outer leather layer straddling and cemented to the outer textile layer and arranged with its flesh side inwardly and its smooth side outwardly and also arranged flush with the surface of the outer rubber layer of the casing and fully occupying all of the space left by the said removal of a portion of said rubber layer, and rivets extending transversely through and joining the said casing side portion, the textile layers and the leather layer.

1,374,847. SPARK-PLUG. MORRIS GOTTLIEB, Philadelphia, Pa. Filed Feb. 10, 1919. Serial No. 276,064. 1 Claim. (Cl. 123—169.)



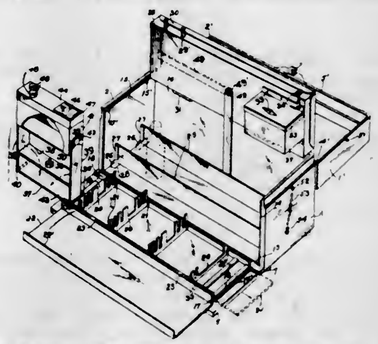
A spark plug comprising an outer metallic body, a body of insulation within said metallic body, an electrode extending centrally through said body of insulation and terminating considerably short of the end of the metallic body, a frusto-conical metallic shell secured to and extending into the open end of the metallic body and having its smaller end closed and formed with a threaded hole and having its peripheral wall apertured, a conical electrode point disposed upon the small end of said frusto-conical shell and carrying a threaded stem screwed into said hole whereby the conical electrode point may be adjusted toward or from the end of said first named electrode, and lock nuts on said stem within the frusto-conical shell whereby to lock the conical point in adjusted position.

1,374,848. HORSESHOE-CALK. ERNEST T. GOWING, Evans Mills, N. Y., assignor of one-half to Oren S. Pickard, Evans Mills, N. Y. Filed Mar. 20, 1920. Serial No. 367,323. 1 Claim. (Cl. 168—41.)



In combination with a horseshoe having its forward portion provided with spaced holes surrounded by bosses arranged in spaced relation and having tapered sides, of a toe calk formed as an elongated bar wedge-shaped in cross-section and extending transversely of the forward portion of the shoe and having formed thereon spaced tapered shanks having a driving fit within the holes in the shoe, the calk being formed between said shanks with a projection engaging against the under side of the shoe between the bosses, the ends of the projection being inclined and conformingly engaging the bosses at the confronting portions thereof.

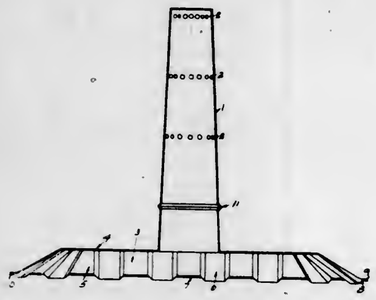
1,374,849. SANITARY CASE. CHARLES A. GREENE, New York, N. Y. Filed Apr. 12, 1919. Serial No. 289,535. 3 Claims. (Cl. 190—1.)



1. A sanitary case comprising a box-like structure and including a front hinged at one edge thereof, an instru-

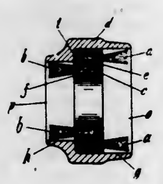
ment case carried by one side of said front, removable instrument racks therefor, a sterilizer and a collapsible sterilizer support therefor hinged at one side of said front, said support including a base member and upwardly projecting standards hinged at each end thereof.

1,374,850. CLOTHES-WASHER. LEO J. GRUBMAN, Erie, Pa., assignor to Erie Metal Products Company, Erie, Pa., a Corporation of Pennsylvania. Filed Feb. 6, 1920. Serial No. 356,634. 3 Claims. (Cl. 68—30.)



1. A clothes washer comprising a percolating tube; and a chamber from which the tube extends, said chamber having depressed projections along its edge forming openings permitting the ingress of water under said edge to the chamber, the edge being provided with an overhanging lip.

1,374,851. NAIL-BRUSH. CARL ALBERT HIRTH, Stuttgart, Germany. Filed Sept. 19, 1917. Serial No. 192,205. 4 Claims. (Cl. 15—35.)



1. In a nail brush, in combination, a body provided with a passage therethrough, a plurality of substantially annular rows of bristles disposed on said body, and a sleeve-like casing open at both ends surrounding said rows and forming a guide face about each row.

1,374,852. PISTON-RING. JOSEPH A. INGRAM, East Orange, N. J. Filed Sept. 25, 1919. Serial No. 326,159. 5 Claims. (Cl. 74—109.)



1. In a piston packing, a split ring-member having an annular channel to provide an annular ledge and an annular collar, said collar being cut away adjacent the split portion to provide a recess, a second split ring located in said channel, and an inwardly propecting ledge carried by the last named ring-member arranged for insertion in said recess when said rings are assembled.

1,374,853. PROCESS OF PHOTOGRAPHIC REPRODUCTION. ROBERT JOHN, New York, N. Y., assignor to Iconochrome Company of America, Inc., a Corporation of New York. Original application filed May 6, 1916, Serial No. 95,957. Divided and this application filed July 25, 1919. Serial No. 313,237. 29 Claims. (Cl. 95—5.4.)

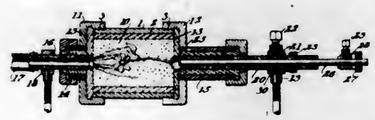
1. The process of forming a photographic record of lights and shades capable of use as a transfer printing plate, which comprises hardening portions of emulsion adjacent the light affected sensitive content of a photographic emulsion with an agent adapted to harden said emulsion by reaction with the light affected sensitive content of the emulsion, and with a neutralizing agent for said hardening agent, the relative proportions of said hardening and neutralizing agents being such as to control selectively the effective area of influence of the hardening agent but to an extent less than the complete neutralization of said hardening agent.

1,374,854. GRENADE-THROWER. STUART P. JOHNSON, Washington, D. C. Filed Mar. 12, 1920. Serial No. 365,333. 2 Claims. (Cl. 42—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



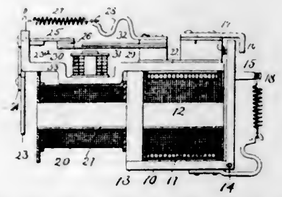
1. In an ordnance device, a discharger having a major missile bore, a cartridge chamber including a neck receiving portion communicating with the bore, the diameter of the neck receiving portion being greater than the outer diameter of the neck of a cartridge.

1,374,855. CASTING. SIMON LAKE, Milford, Conn. Filed Dec. 29, 1919. Serial No. 348,074. 7 Claims. (Cl. 22—196.)



1. A method of casting, comprising forming a mold of electrical-conducting material around the article to be reproduced, destroying the article within the mold by the heat of an electric current passing through the mold material, removing the remains of the article, filling the mold cavity thus formed with a plastic substance, and removing the mold material.

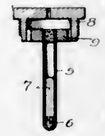
1,374,856. REGULATOR FOR DYNAMO-ELECTRIC MACHINES. BENNETT M. LEECE and HARRY C. BRANCH, Cleveland, Ohio, assignors to The Leece-Neville Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 15, 1917. Serial No. 186,294. 2 Claims. (Cl. 171—229.)



1. In combination with a dynamo electric machine having a field winding, of a regulator for varying the ampere

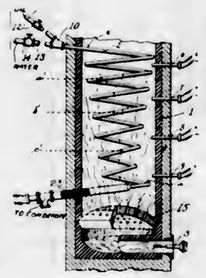
turns of the field winding, said regulator being in the form of a unit comprising two magnets having windings both connected to the dynamo electric machine but in separate circuits, and a pair of field regulating contacts each influenced by one of said magnets, and one of the contacts being mounted for vibratory movement into and out of engagement with the other.

1,374,857. THERMOSCOPE. CHARLES E. LINEBARGER, Chicago, Ill. Filed Feb. 26, 1919. Serial No. 279,290. 3 Claims. (Cl. 116—118.)



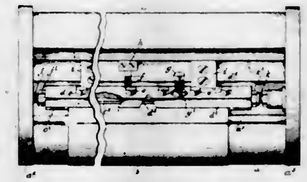
1. A battery temperature indicator comprising a cell vent cap having an annular flange projecting from the lower side thereof, a rubber disk positioned within said flange and spaced from the body of said cap, said disk having two openings therethrough, a transparent container, and two liquids of unlike densities in said container capable of forming a physical mixture at a certain temperature; one end of said container being positioned in one of said openings, whereby when said cap is in place in one of the cells of the battery the container will project into the electrolyte of said cell.

1,374,858. PROCESS OF CONVERTING HIGHER-BOILING-POINT HYDROCARBON OILS INTO LOWER-BOILING-POINT HYDROCARBON OILS. WILLIAM M. MCCOMB, New York, N. Y. Filed July 3, 1920. Serial No. 393,893. 6 Claims. (Cl. 196—25.)



1. A method of converting relatively heavy hydrocarbon oils into hydrocarbon oils of lower boiling points, which consists in passing a mixture of such heavy hydrocarbon oils together with a smaller percentage of steam through a heated tubular vessel or coil of progressively increasing temperatures from its inlet to its outer ends, the temperature of the oil therein at a point adjacent the inlet end of the coil approximating the initial boiling point of the oil under treatment and the temperature of the oil therein at a point near the outlet end approximating the end boiling point of the oil under treatment, the temperature of the intermediate points of the oil in the coil increasing approximately in the same ratio with respect to the total intervening length of the coil under consideration as the boiling point temperatures of the oil increase in ordinary fractional distillation of a sample of the oil under treatment throughout the successive positions of its boiling point range.

1,374,859. PLATE-REGISTERING MECHANISM FOR PRINTING-MACHINES. FRANK C. MARQUARDT, Brooklyn, N. Y., assignor to American Bank Note Company, New York, N. Y., a Corporation of New York. Filed May 18, 1918. Serial No. 235,329. 15 Claims. (Cl. 272.)





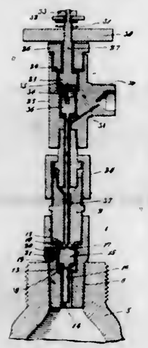
1. A plate registering mechanism for printing machines, embodying therein a plate cylinder having oppositely presented bearing surfaces at different points of the periphery thereof, a clamping mechanism movably mounted adjacent each of said bearing surfaces, embodying therein two coacting clamp plates extending from adjacent one end of said bearing surface to adjacent the other end thereof, and means for closing said plates upon the edges of the printing plate, means retaining said clamping mechanisms in relation to said cylinder while permitting oscillatory or rectilineal movement thereof with relation to said surfaces and means whereby said clamping mechanisms may be adjusted pivotally of, or toward and from said bearing surfaces, to vary the position of the plate upon the cylinder.

3. A plate registering mechanism for printing machines embodying therein a plate cylinder having oppositely presented bearing surfaces at different points of the periphery thereof, a clamping mechanism adjacent each of said bearing surfaces, means preventing movement of said clamping mechanisms respectively radially of said cylinder while permitting movement thereof circumferentially and laterally of said cylinder, a plurality of adjustable pivots carried by each of said clamping mechanisms, whereby movement may be imparted to said clamping mechanisms respectively with relation to the adjacent bearing surface, and adjustable means acting upon the opposite ends of said clamping mechanism respectively, whereby said mechanisms may be adjusted laterally of the cylinder.

1,374,860. VALVE FOR CONTROLLING THE FLOW OF FLUIDS AND GASES UNDER PRESSURE. JAMES M. MILLER, Jersey City, N. J. Filed Nov. 13, 1919. Serial No. 337,673. 6 Claims. (Cl. 251—156.)

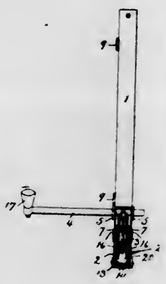
3. Valvular means for controlling the dispensation of fluids or gases under pressure from a container, embodying a valve permanently associated with the container and provided with a valve chamber and inlet and outlet ducts leading to and from the valve chamber, a sealing element positioned within the valve chamber and adapted to normally seal the outlet duct; and removable means for further sealing the outlet duct, said removable means embodying means for allowing of the escape of pressure ac-

cumulated in the outlet duct through leakage of the sealing element, during the removal of the removable means, in combination with a master service connection provided with an actuating rod, means for coupling the service connection to the valve to bring the actuating rod into coöperative relation with the sealing member of the valve, and means for thereafter manipulating the actuating rod



to move the sealing member into or out of sealing position, whereby the drawing off and delivery of the contents of the container may be carried out.

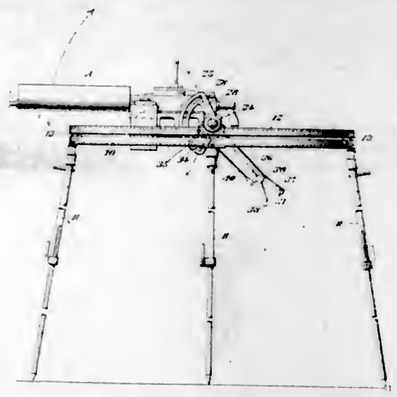
1,374,861. AUTOMOBILE-SIGNAL. ALBERT E. PAYETTE and EUSEBE TETRAULT, Springfield, Mass. Filed Oct. 8, 1920. Serial No. 415,616. 10 Claims. (Cl. 116—53.)



1. The combination, in an automobile signal, with a sheath, and a plurality of semaphore arms pivotally connected at one terminal with said sheath, of rotatable and longitudinally-movable means for operating said arms individually, according to the position of said means relative to said arms.

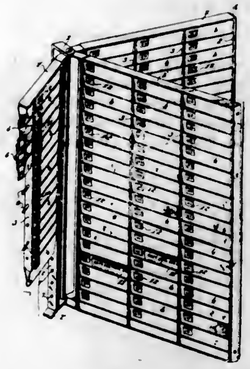
1,374,862. MACHINE-GUN MOUNT. JOHN S. PEOPLES, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Nov. 26, 1918. Serial No. 264,225. 5 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A gun mount, including a circular track, a mounting ring positioned above and in parallel relation to the track, roller bearings between the ring and the track, a shaft journaled on said ring, gun supporting members fixed to the shaft, counter-balancing springs fixed to the shaft and its bearings to normally urge the shaft toward gun elevating position, means for locking the shaft against move-



ment under the impulse of the springs and a lever for rocking the shaft and rotating the ring upon the track.

1,374,863. CARD-HOLDER. FREDOLF J. PETERSON, Alliance, Ohio, assignor to The McCaskey Register Company, (Incorporated in 1914,) Alliance, Ohio, a Corporation of Ohio. Filed Sept. 10, 1917. Serial No. 190,496. 2 Claims. (Cl. 40—63.)

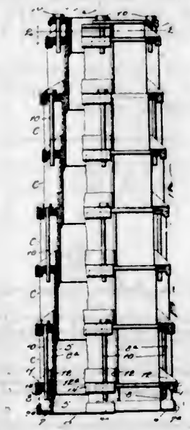


1. A card holder including a series of V-shaped receptacles spaced apart in nested arrangement, and means supporting the receptacles at their angles only permitting them to rock laterally with reference to each other on their respective supports.

1,374,864. ADJUSTABLE FORM FOR CONCRETE STRUCTURES. SAMUEL RASHKOVSKY, (now by judicial change of name Samuel Raskin,) St. Louis, Mo., assignor to Metalform Construction Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 20, 1920. Serial No. 352,802. 8 Claims. (Cl. 25—131.)

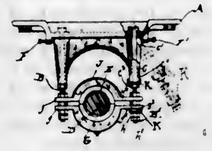
5. A column form, comprising a number of sections arranged one above the other and each composed of a plurality of parts that can be adjusted relatively to each other to vary the internal diameter of the form, laterally-projecting portions on the parts of said sections which rest upon the upper edge of the section immediately beneath the parts to which said portions are connected, overlapped flanges on the parts of each section that are overlapped by the laterally-projecting portions on the

section immediately above, means for preventing said overlapped flanges and laterally-projecting portions from sepa-



rating vertically, and retaining devices passing through said laterally-projecting portions and through the flanges with which they coöperate.

1,374,865. ADJUSTABLE SHAFT-HANGER. CAREY SHERWOOD, Lowell, Mass. Filed Jan. 13, 1921. Serial No. 436,902. 4 Claims. (Cl. 64—14.)



1. The combination of a shaft-hanger, having vertical bolt-holes, bolts arranged in said holes, said hanger being laterally slotted at one side from the adjacent bolt-hole, two yokes each having holes to receive said bolts, and each having a longitudinal slot extending from a bolt hole to the end of the yoke, at the slotted side of said hanger, to allow the corresponding bolts to be swung laterally out of all said slots and the upper of said yokes to be turned on the other of said bolts, to enable said shaft to be passed between said lower yoke, and the lower end of said swinging bolt, and means for preventing said last named bolt from moving in said slots.

1,374,866. ADJUSTABLE FLUE EXTENSION. SAMUEL A. SPENCER, Salt Lake City, Utah. Filed Dec. 15, 1919. Serial No. 345,160. 4 Claims. (Cl. 137—75.)



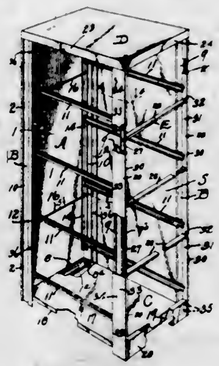
2. An adjustable flue extension comprising four co-acting corner pieces each of which has right-angle side faces; an elongated slot in one of said side faces of each of said corner pieces; portions of the other side face of each corner piece bent upon itself to form a narrow channel; a strap nut secured to one side of said channel; a bolt passed through the said metal transversely across said channel and operable in said strap nut; and a sleeve member riveted on the upper end of all of said corner pieces.

1,374,867. ROTARY BORING-DRILL. FRANK L. O. WADSWORTH, Pittsburgh, Pa. Filed May 26, 1919. Serial No. 300,004. 20 Claims. (Cl. 255—71.)



1. In a rotary boring tool, the combination with a rotatable drill head of a disk member mounted on an axis transverse to the axis of rotation of the head, and recessed on its outer side to form a cutting edge of less diameter than the inner side thereof, thus conforming to the curvature of the hole being drilled substantially as described.

1,374,868. METAL FURNITURE CONSTRUCTION. HERBERT E. WHITE and HENRY F. PHILIBIN, Youngstown, Ohio, assignors to The General Fireproofing Company, a Corporation of Ohio. Filed July 29, 1919. Serial No. 314,003. 18 Claims. (Cl. 45—2.)



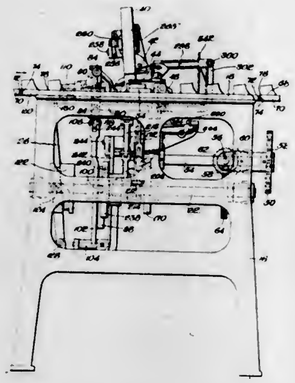
1. A knock-down metal furniture construction including a back section, side sections detachably interlocked at the rear to the side edge portions of the back sections, a front ladder section, and connectors detachably holding the front ladder section interlocked with the front portions of the side sections.

6. In a metal furniture construction, a back wall member provided at its opposite vertical edges with an inturned flange, side wall members each provided at one edge with an outturned flange interfitting within one of the inturned flanges of the back wall, and means disposed between the flanges of the side walls to hold the same interlocked with the flanges of the back wall.

1,374,869. HEEL-BREASTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 29, 1919. Serial No. 273,845. 36 Claims. (Cl. 12—47.)

1. A machine for operating upon heels having, in combination with a conveyer for advancing the heels, a reciprocating knife disposed at one side of the conveyer, means for transferring heels from the conveyer into position to be operated upon by the knife, means for clamping the heels in said position by engagement with the top and

bottom thereof, and means for removing the heels after they have been operated upon and returning them to the conveyer.



13. A heel-breasting machine having, in combination, means for breasting a heel, a fixed support upon which the rear of the heel may rest while being breasted, means for placing a heel upon said support, and a movable support for the breast end of the heel.

34. A machine for breasting heels prior to their attachment to a shoe having, in combination, means for supporting and clamping a heel in position for the breasting operation, a knife for trimming the heel breast, means for reciprocating the knife, and a guideway for the knife adjustable to vary the angle of stroke of the knife and the pitch of the heel breast.

1,374,870. PENHOLDER. BENJAMIN WILLIAM ZIMMERLE, Sutton, Nebr. Filed May 19, 1920. Serial No. 382,616. 2 Claims. (Cl. 120—101.)



1. The combination with a pen staff having a reduced portion, of a pen holder therefor comprising a sleeve carried by the reduced portion, said sleeve being provided with an enlarged threaded portion and a reduced split portion, a second sleeve threaded on the enlarged threaded portion and having its inner periphery spaced from the outer periphery of the reduced portion of the first mentioned sleeve, a pen point limiting flange on the inner periphery of the outer sleeve intermediate its length and a pen point holding and engaging flange on the inner periphery of the outer sleeve and so positioned that it will surround the split end of the reduced portion of the inner sleeve when the outer sleeve is screwed inwardly on the threaded portion of the inner sleeve.

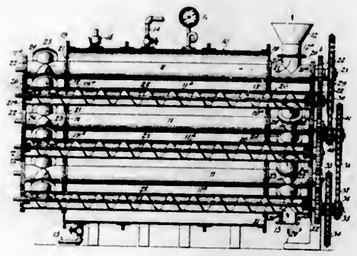
1,374,871. PHOTOSENSITIZING DYE OF THE ISOCYANIN TYPE. ELLIOT Q. ADAMS, Berkeley, Calif., and HERBERT L. HALLER, Cincinnati, Ohio. Filed May 28, 1920. Serial No. 385,061. 7 Claims. (Cl. 8—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. Dyes of the iso-cyanin type produced by the action of strong bases in alcohol solution upon the alkyl halids of lepidin.

1,374,872. PHOTOSENSITIZING DYE EFFECTIVE FOR INFRA-RED RADIATION. ELLIOT Q. ADAMS, Berkeley, Calif., and HERBERT L. HALLER, Cincinnati, Ohio. Filed July 17, 1920. Serial No. 397,114. 8 Claims. (Cl. 8—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. Dyes effective for infra-red photographic sensitization produced by the action of strong bases upon the higher alkyl halids of lepidin.

1,374,873. COPRA-COOKER. ARTURO BARRA, Manila, P. I. Filed Sept. 24, 1919. Serial No. 326,097. 3 Claims. (Cl. 87—6.)



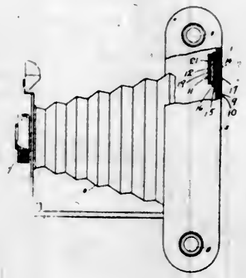
3. A cooker of the class described including a steam box, a plurality of cooking tubes in said box, the first tube affording an inlet for the material to be cooked, and the last tube affording an outlet, and fittings on the ends of the tubes outside of the closed ends of the box, said fittings except those at said inlet and outlet each presenting a member in communication with a cooking tube so that the fitting constitutes an extension of the tube, and adjacent fittings presenting opposed members detachably united to form tubular connections between the extensions alternately at opposite ends of the cooker for the passage of the material to successive tubes.

1,374,874. PROCESS AND APPARATUS FOR DRYING MATERIALS. EDWIN M. BASSLER, Milwaukee, Wis. Filed Mar. 24, 1916, Serial No. 86,368. Renewed June 16, 1919. Serial No. 304,725. 5 Claims. (Cl. 34—12.)



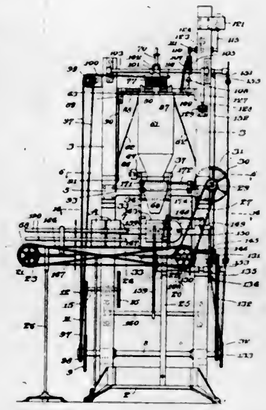
4. In a drying apparatus, the combination of a trunk or casing, a conveyer in said trunk or casing which extends lengthwise thereof and projects therefrom at its discharge end, means for closing the discharge end of said trunk or casing constructed and arranged to permit the passage of the conveyer and conveyed material, driving means for said conveyer, means to create a current of air lengthwise through said trunk or casing in the reverse direction to the direction of movement of said conveyer, partitions within said casing above and below said conveyer constructed and arranged to cause said current of air to pass successively through said conveyer, means whereby the air is initially drawn through the section of said conveyer at the discharge end of said trunk or casing which is outside thereof and which carries the hot dried product and thence forced into said trunk or casing adjacent to its discharge end, and means for heating said current of air before it passes into said trunk or casing, substantially as described.

1,374,875. SENSITIVE-MATERIAL-MARKING DEVICE. JOHN P. BETHKE, Milwaukee, Wis., assignor of one-half to Louis Schlesinger, Milwaukee, Wis. Filed May 10, 1915. Serial No. 27,031. 27 Claims. (Cl. 95—1.1)



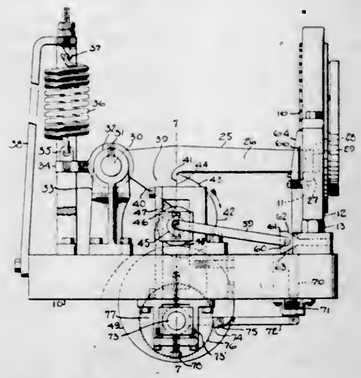
1. The combination with a camera, of a sensitive material marking device therefor, comprising a medium positioned adjacent to the sensitive material in the camera and having a writing surface and a luminous portion, said writing surface being interposed between the sensitive material and the luminous portion, and means for controlling the exposure of the sensitive material to the action of rays emanating from the luminous portion of said medium.

1,374,876. AUTOMATIC WEIGHING-MACHINE. CHARLES L. BOND, Philadelphia, Pa. Filed Jan. 28, 1919. Serial No. 273,622. 22 Claims. (Cl. 249—59.)



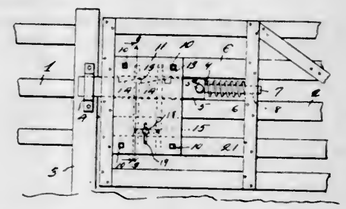
1. The combination of a weighing device adapted to receive a receptacle, said device having a part adapted to be moved by a predetermined weight of material introduced to a receptacle thereon, a conveyer adapted to support and advance a receptacle to a position adjacent to said device, means to actuate the conveyer, a stop to prevent further movement of the receptacle by the conveyer when the receptacle reaches said position, normally idle means to move said receptacle from said position to said device, and means controlled by said part when moved to automatically actuate said normally idle means.

1,374,877. AUTOMATIC PEENING APPARATUS FOR PISTON-RINGS. ARNOLD G. CARLSON, Paterson, N. J. Filed Aug. 14, 1919. Serial No. 317,566. 8 Claims. (Cl. 78—26.)



1. In piston ring peening apparatus, a hammer, a shaft provided with means for moving said hammer, and means operated from said shaft for producing movement of the shaft toward and away from said hammer.

1,374,878. SELF-LATCHING GATE. THOMAS CHILDERS, Zeigler, Ill. Filed Sept. 8, 1920. Serial No. 408,968. 1 Claim. (Cl. 292—150.)



A gate latch comprising a keeper slidably mounted between horizontal rails of a gate and between plates secured to said rails, a spring for normally forcing said keeper outwardly, vertical slidable bolts slidable in guide slots of the plate, lugs carried by the upper ends of said bolts adapted to engage notches in the upper sides of the slidable keeper, inclined surfaces adjacent the keeper notches inclining forwardly and downwardly, said inclined surfaces forming means for guiding the lugs of the vertically slidable bolt into their respective notches in the keeper when said keeper is forced forwardly by the coiled spring and forming means for guiding said lugs into engagement with limiting stops when the keeper is moved rearwardly.

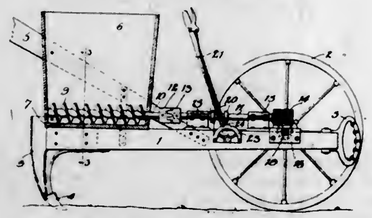
1,374,879. CONCENTRATED COCOANUT-MILK AND PROCESS OF MAKING SAME. WILLIAM STANLEY COOKSON, Taiping, Perak, Straits Settlements, assignor to Lulu Mitchell Smith, Maunawai, Honolulu, Hawaiian Islands. Filed Feb. 25, 1919. Serial No. 279,166. 4 Claims. (Cl. 99—11.)

1. The herein described food product, substantially permanent under normal conditions which consists of a concentrated cocoanut milk emulsion which is substantially free from rancidity and which contains substantially 70% pure cocoanut oil, 12% proteid or albuminous matter, 12% sugar and 6% water, the whole having a consistency approximating that of starch paste and being capable of being converted into a thinner emulsion by adding water and stirring.

1,374,880. COCOANUT FOOD PRODUCT. WILLIAM STANLEY COOKSON, Taiping, Perak, Straits Settlements, assignor to Lulu Mitchell Smith, Maunawai, Honolulu, Hawaiian Islands. Filed Feb. 25, 1919. Serial No. 279,168. 3 Claims. (Cl. 99—11.)

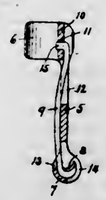
1. The herein described roasted food product which consists of comminuted cocoanut endosperm containing from 15% to 25% of pure neutral oil or fat substantially free from rancidity, the cell walls of the tissue of the endosperm being weak and tender.

1,374,881. FERTILIZER-DEPOSITOR. JAMES P. COPELAND, Vinemont, Ala., assignor of one-half to Walter L. Guthrie, Cullman, Ala. Filed Dec. 8, 1919. Serial No. 343,158. 2 Claims. (Cl. 275—2.)



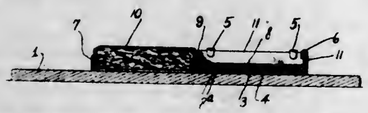
1. In a furrowing depositor, a beam, a depositing hopper on said beam, means within said hopper for feeding material toward its discharge orifice, said beam having a transverse gain in its upper surface, bearing plates on the beam closing the ends of the gain, an axle journaled in the bearing plates, a ground wheel secured to the axle, a gear on the axle operating within the pocket formed by the gain and bearing plates, and transmission mechanism for the hopper contained feeding means operated by the gear.

1,374,882. CLIP. GEORGE V. CURTIS, West Springfield, Mass. Filed Sept. 10, 1920. Serial No. 409,360. 6 Claims. (Cl. 120—84.)



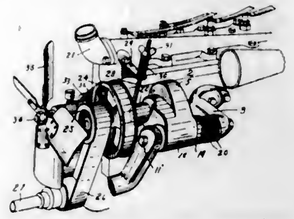
1. As an improved article of manufacture, a clip, of the class described above, comprising a member which is adapted to be attached to an implement and has a part to bear on material interposed between said implement and said part, and is provided with a fixed envelop opener having a crescent-shaped cutting part with the point of such part directed upwardly.

1,374,883. STAMP-INKING DEVICE. JULES A. FROST, Alafia, Fla. Filed Jan. 20, 1920. Serial No. 352,838. 2 Claims. (Cl. 91—54.5.)



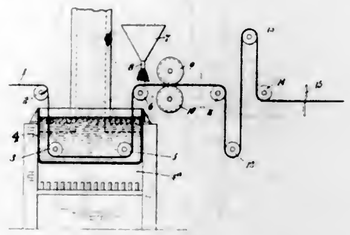
2. A stamp-inking device comprising a base, holder means extending upwardly therefrom supporting means on the base within said holder means, and an ink-pad box including a body, a pad therein, and a flanged lid hinged to the body; said flanged lid being superimposed in inverted position upon said supporting means and within the holding means, so that its flange is engaged by said holding means.

1,374,884. CIRCULATING-PUMP. CARL A. GRASSWICK, Minneapolis, Minn., assignor, by direct and mesne assignments, to Wood-Craft Company, St. Paul, Minn., a Corporation of South Dakota. Filed Aug. 7, 1918. Serial No. 248,740. 12 Claims. (Cl. 123—175.)



1. The combination, with a cylindrical valve, having a transverse partition therein and ports in its walls upon opposite sides of said partition having means for connection with a cylinder jacket and with a radiator, of a pump cylinder having chambers therein and a wall between said chambers provided with a communicating port, said cylinder mounted for rotary movement on said valve and having ports in the walls of its chambers communicating respectively with the ports of said valve, and a revolving piston mounted in one of said cylinder chambers for establishing a circulation of fluid through said chambers and through said valve, a driving belt for said piston, and yielding means for supporting said pump and maintaining the desired degree of tension on said belt.

1,374,885. PROCESS OF MAKING FIREPROOFING MATERIAL AND HEAT AND COLD RETAINING COVERINGS AND PRODUCT THEREOF. CHESTER S. HATHAWAY, Quincy, Mass., assignor to Joseph A. Locke, Boston, Mass. Filed Mar. 24, 1920. Serial No. 368,282. 24 Claims. (Cl. 91—68.)

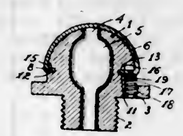


1. The process which comprises impregnating a fabric with an impregnating composition containing a tar and an hydraulic cement.

1,374,886. OIL-HOLE CLOSURE. ALBERT D. RAY, Cleveland, Ohio. Filed Sept. 12, 1919. Serial No. 323,366. 5 Claims. (Cl. 184—91.)

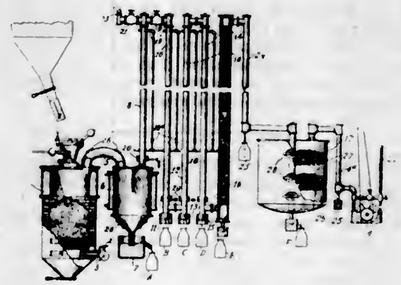
5. In an oil-hole closure, the combination of a spherical body having an opening therein, a cover, the cover consisting of sheet material and conforming to the spherical body for sliding thereover, one side of the cover terminating in an inwardly extending pivot, the other side of the cover terminating in an inwardly extending plate and

pivot, said body being provided with openings for receiving the first mentioned pivot and said plate and pivot, a coiled spring exerting pressure against said plate whereby the cover is retained in closed position over the opening in the



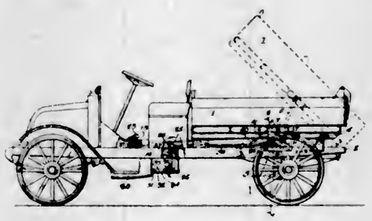
body, and a boss projecting from said plate within the coiled spring for preventing slipping of that end of the spring when the cover is oscillated, substantially as described.

1,374,887. WOOD DISTILLATION. EDMUND M. SAWTELLE, Englewood, N. J., assignor to Julius P. Carter, Greenwich, Conn., and Robert L. Squibb, Lawrenceburg, Ind. Filed Sept. 10, 1918. Serial No. 253,367. 6 Claims. (Cl. 203—6.)



1. The process of destructively distilling wood which consists in maintaining a descending progressively replenished mass of sub-divided wood and a condition of limited, regulated combustion in the lower part of said mass in the absence of introduced steam, withdrawing the combinustion and distilation effluents upwardly through said mass, and conducting the whole of said effluents through a condensing system and therein separating the pyroligneous liquor therefrom.

1,374,888. HYDRO-HOIST. FRANK B. SMIGHT, Milwaukee, Wis., assignor, by mesne assignments, to Hydro-Hoist Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 11, 1917. Serial No. 185,722. Renewed Feb. 12, 1919. Serial No. 276,602. 20 Claims. (Cl. 298—22.)

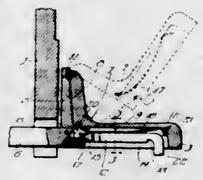


1. In a device of the described class, the combination with a movable vehicle and a single box pivotally connected near its rear end to said vehicle, a pair of cylinders pivotally connected near their upper ends to the frame of said vehicle, a pair of pistons located in said cylinders, a pair of hollow piston rods respectively connected at one end with said pistons and extending therefrom through the upper ends of said cylinders and pivotally connected with said single box, a transmission, a pump, and ducts leading from said pump to said cylinders both above and below said pistons, and means for connecting said motor and pump, whereby said pistons are moved in said cylinders, and whereby said box is adapted to be raised at its front end and its contents discharged.

1,374,889. PROCESS OF DESTRUCTIVELY DECOMPOSING LIQUIDS OF HIGH ORGANIC CONTENT AND PRODUCT OF SUCH PROCESS. ALFRED H. WHITE, Ann Arbor, Mich. Filed July 24, 1919. Serial No. 312,939. 8 Claims. (Cl. 252.)

1. The cyclic process of decomposing an aqueous liquid containing a large amount of organic matter and capable of yielding valuable carbon compounds upon destructive distillation, which consists in intimately mixing such aqueous liquid in a concentrated condition with sufficient quick-lime to autogeneously heat up the mass to a temperature at which destructive distillation occurs, then distilling off the volatile carbon compounds while supplying at least the major portion of the heat required for such distillation autogenously from the reaction of the said mixture whereby the non-volatile residue is obtained separately from the volatile constituent, and then calcining the calcium compounds contained in said residue at a sufficient temperature to substantially convert the same into quick-lime for reuse in said process.

1,374,890. PEDAL DEVICE FOR PIANOS AND OTHER PURPOSES. BENJAMIN H. JEFFERSON and WALTER I. KIRK, Chicago, Ill., assignors to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1919. Serial No. 297,379. 7 Claims. (Cl. 74—81.)

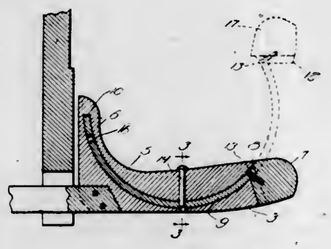


3. A pedal device in the form of a piano pedal, the rear end of which extends upwardly and is pivotally mounted at its upper end so as to permit the front end portion of said pedal to be raised and lowered.

1,374,891. PEDAL DEVICE FOR PIANOS AND OTHER PURPOSES. BENJAMIN H. JEFFERSON and WALTER I. KIRK, Chicago, Ill., assignors to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1919. Serial No. 297,380. 2 Claims. (Cl. 74—81.)

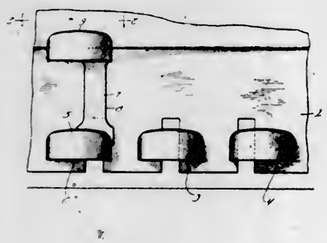
1. A pedal device comprising a pedal member having its toe portion made separable from the body portion of said member, a rod or bar connected with said toe portion and serving to support the same in an elevated position, said rod or bar being arranged to slide in a groove formed in

the body portion of said member and to permit said toe portion to be separated from the latter and adjusted to



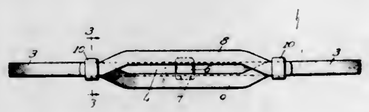
an elevated position, and means for locking said rod or bar in adjusted position, said rod or bar being circular in form.

1,374,892. PEDAL DEVICE. BENJAMIN H. JEFFERSON, Chicago, Ill., assignor to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1919. Serial No. 344,912. 2 Claims. (Cl. 84—230.)



2. A pedal device comprising a pedal proper and a supplemental member providing an elevated pressing surface, said pedal proper having its shank provided with longitudinally extending grooves and said supplemental member being provided with clasping members adapted to partially surround said shank and having projections adapted to fit and slide in said grooves, said shank being provided with cut-away portions in the sides of said grooves so as to permit the supplemental member to be separated from said pedal proper.

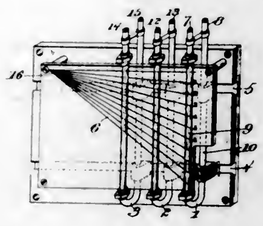
1,374,893. BUMPER. WILLIAM G. PANCOAST and WILLIAM J. GROTENHUIS, Chicago, Ill., assignors, by mesne assignments, to American Chain Company, Inc., a Corporation of New York. Filed June 13, 1919. Serial No. 303,919. 22 Claims. (Cl. 293—55.)



1. A bar bumper comprising a flexible impact member provided with lateral end portions of substantially the vertical width of the bar and having near the middle of the bar a portion of substantially increased impact area.

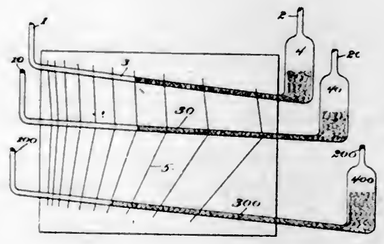
REISSUES.

15,079. PRESSURE-RELATION GAGE. ERVIN G. BAILEY, Newton Highlands, Mass., assignor to Bailey Meter Company, a Corporation of Massachusetts. Filed Mar. 3, 1921. Serial No. 450,032. Original application filed Mar. 21, 1911, Serial No. 616,020. Renewed Aug. 24, 1917, Serial No. 188,067. Original No. 1,257,963, dated Mar. 5, 1918. 5 Claims. (Cl. 73—31.)



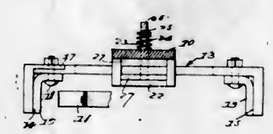
1. An instrument comprising two or more pressure gages provided with indicators, and means correlating said gages so that said indicators all indicate the same reading when a desired relation other than the ratio of one to one exists between the various pressures, regardless of the actual intensities of the pressures.

15,080. METHOD OF OBTAINING A READY COMPARISON OF FACTORS IN A POWER PRODUCING OR USING APPARATUS. ERVIN G. BAILEY, Newton Highlands, Mass., assignor to Bailey Meter Company, a Corporation of Massachusetts. Filed Mar. 3, 1921. Serial No. 450,033. Original application filed Feb. 24, 1913, Serial No. 750,069. Renewed Aug. 24, 1917, Serial No. 188,068. Original No. 1,257,964, dated Mar. 5, 1918. 5 Claims. (Cl. 73—31.)



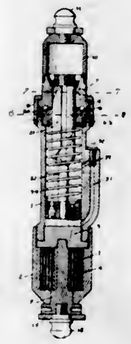
1. The method of obtaining a ready comparison of two or more differently varying active factors in a power producing or using apparatus with the view of adjusting one or more of said factors in order to secure the condition of desired efficiency at all rates of output, which consists in testing said apparatus to make an empirical determination of the relative value of said factors throughout the range of output of the apparatus at the desired efficiency, causing each of said factors to act upon a corresponding movable mechanical element, and associating said elements upon which the factors act and a common standard of comparison according to said empirical determination to make an observable presentation of any departure in the relation of the said factors from that corresponding to the condition of desired efficiency at all rates of output.

15,081. LOOM-CHECK. JOSEPH CARTIER and CHARLES DELCOURT, Fall River, Mass.; said Delcourt assignor, by mesne assignments, of all his right to Joseph E Rochette, Norwich, Conn. Filed Feb. 28, 1921. Serial No. 450,031. Original No. 1,364,710, dated Jan. 4, 1921, Serial No. 327,204, filed Sept. 29, 1919. 3 Claims. (Cl. 139—22.)



3. A loom check comprising a bracket provided with complemental clamping members of which one is formed as a part of the bracket, a slide carried between the clamping elements and formed with upturned ears for disposition on opposite sides of the picker stick of a loom, the inner surfaces of the two ears constituting abutment shoulders for the picker stick and one of said ears being removably secured to the body portion of the slide by a bolt engaging a lap joint, and means to frictionally resist the movement of the slide between the clamping members.

15,082. CHECK-HINGE. EMILE FRANCKAERTS, San Francisco, Calif. Filed Nov. 22, 1919. Serial No. 339,962. Original No. 1,281,774, dated Oct. 15, 1918, Serial No. 187,904, filed Aug. 23, 1917. 4 Claims. (Cl. 16—88.)



1. In a hinge, a casing having a chamber for liquid, a piston movable in the casing and having a check valve for permitting the liquid to flow freely in one direction, said casing having a by-pass for the liquid and means outside the casing for controlling the by-pass, a spring acting normally to move the piston in the said one direction, a rotatable element in connection with the hinge at one end thereof and connected to the piston to move the piston against the resistance of the spring, said piston having a relief valve, spring controlled to yield at a predetermined pressure when the check valve is closed, a rotatable element in connection with the hinge at the other end, and a closing spring in the casing and connected with the casing and the last named rotatable element.

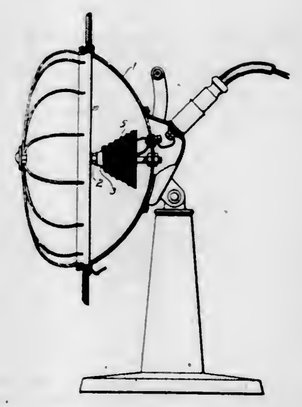
15,083. [WITHDRAWN.]

15,084. NOZZLE CONTROL FOR TURBINES. WILLIAM J. IRWIN, Wilkinsburg, Pa. Filed Jan. 16, 1920. Serial No. 351,982. Original No. 1,254,599, dated Jan. 22, 1918, Serial No. 857,031, filed Aug. 17, 1914. 16 Claims. (Cl. 137—158.)



16. In a turbine a plurality of nozzles and valves for each of said nozzles, at least one of said valves being elongated and having a variable cross sectional area, and a carrier common to all of said valves.

15,085. ELECTRIC HEATER. BERTRAND B. KAHN, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio. Filed June 21, 1920. Serial No. 390,645. Original No. 1,304,687, dated May 27, 1919, Serial No. 246,663, filed July 25, 1918. 12 Claims. (Cl. 219—34.)



1. An electric heater comprising, a concave reflector, a frusto-conical insulator fixed at the center of the reflector and presenting its smaller end forwardly and provided on its periphery with a helical groove with a low separating land, and a helical coil of resistance wire coiled in such groove, the helical coil having a diameter greater than that of the groove in which it is seated, combined substantially as set forth.

15,086. CURTAIN STRETCHER AND DRIER. ROBERT VALENTINE LYON, Buffalo, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Jan. 5, 1920. Serial No. 349,664. Original No. 1,285,274, dated Nov. 19, 1918, Serial No. 178,183, filed July 2, 1917. 14 Claims. (Cl. 45—24.)

1. Apparatus of the character described, comprising a stationary casing having a top opening, and an inner frame mounted in said casing and provided with a series

of circumferentially spaced walls, each of said walls carrying curtain stretching means, said frame being rota-

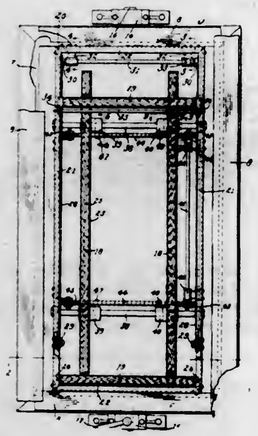
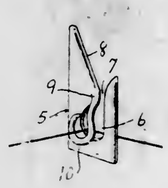


table in said casing to expose any of said curtain stretching means above said opening.

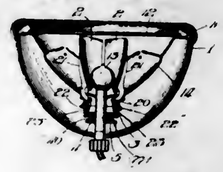
15,087. LOOM-SHUTTLE. NAPOLEON SPENARD, Biddeford, Me., assignor of one-half to Ernest L. Morrill, Biddeford, Me. Filed Oct. 11, 1918. Serial No. 257,797. Original No. 1,242,383, dated Oct. 9, 1917, Serial No. 150,782, filed Feb. 24, 1917. 5 Claims. (Cl. 139—46.)



5. In a shuttle having a thread receiving channel, a thread guide at one end of the channel comprising a metallic member extending transversely from one side wall of the channel downward and toward the other side wall, the metallic member being formed to provide a shank circular in cross section, the lower portion of the shank being bent toward the first named side wall and beneath the shank and being formed to provide a single helical coil extending toward the exit end of the channel, the axis of the coil being approximately central to the longitudinal axis of the channel, the extremity of the coil terminating short of a point in longitudinal alinement with the beginning of the coil, the terminal portion of the coil gradually decreasing in diameter to its extremity.

15,088. CONTROLLABLE HEADLIGHT-SCREEN. WILLIAM A. SCHROEDER, Seattle, Wash. Filed Jan. 5, 1920. Serial No. 349,610. Original No. 1,305,498, dated June 3, 1919, Serial No. 209,030, filed Dec. 27, 1917. 10 Claims. (Cl. 240—45.)

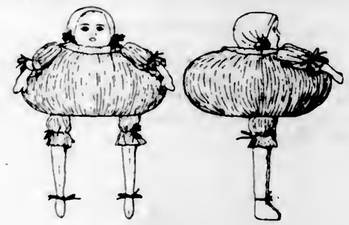
6. In a headlight, the combination of a source of illumination, and a pair of vertically pivoted screens adjustably mounted with respect to the source of illumination, said screens being of dished or concave configuration adapted when in open position to project rays of light forwardly, and adapted when closed to occupy positions



closely contiguous to the source of illumination, and to reflect rays of light laterally, substantially as described.

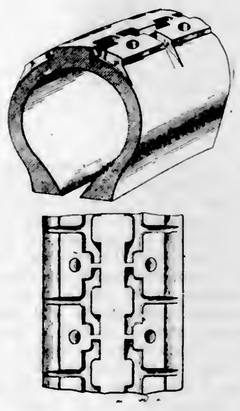
DESIGNS.

57,489. DOLL. HUGO BAUM, New York, N. Y. Filed Jan. 6, 1921. Serial No. 435,527. Term of patent 3½ years.



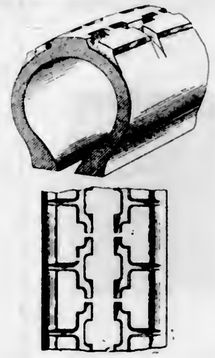
The ornamental design for a doll, as shown.

57,490. TIRE-CASING. RUSSELL DEAN BELDEN, Marion, Ohio. Filed Aug. 20, 1920. Serial No. 404,924. Term of patent 3½ years.



The ornamental design for a tire casing, as shown.

57,491. TIRE-CASING. RUSSELL DEAN BELDEN, Marion, Ohio. Filed Sept. 3, 1920. Serial No. 408,030. Term of patent 3½ years.



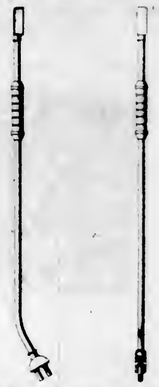
The ornamental design for a tire casing, as shown.

57,492. WOVEN FABRIC OR SIMILAR ARTICLE. LOUISE H. BREWSTER, Lexington, Mass. Filed Nov. 23, 1920. Serial No. 426,099. Term of patent 7 years.



The ornamental design for a woven fabric or similar article, as shown.

57,493. PYROMETER. HENRY B. BROWN, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Feb. 14, 1921. Serial No. 445,010. Term of patent 14 years.



The ornamental design for a pyrometer, as shown.

57,494. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 7, 1920. Serial No. 429,007. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

57,495. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,817. Term of patent 3½ years.



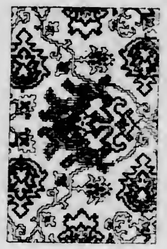
The ornamental design for a floor cloth as shown.

57,496. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,818. Term of patent 3½ years.



The ornamental design for a floor cloth as shown.

57,497. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,819. Term of patent 3½ years.



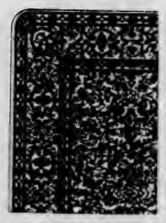
The ornamental design for a floor cloth as shown.

57,498. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Seral No. 429,820. Term of patent 3½ years.



The ornamental design for a floor cloth as shown.

57,499. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10. 1920. Serial No. 429,821. Term of patent 3½ years.



The ornamental design for a floor cloth as shown.

57,500. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,822. Term of patent 3½ years.



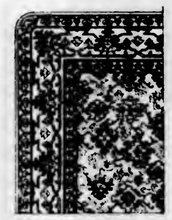
The ornamental design for a floor cloth as shown.

57,501. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,823. Term of patent 3½ years.



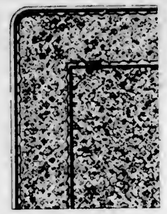
The ornamental design for a floor cloth as shown.

57,502. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,824. Term of patent 3½ years.



The ornamental design for a floor cloth as shown.

57,503. FLOOR-CLOTH. FRANK CARTWRIGHT, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,825. Term of patent 3½ years.



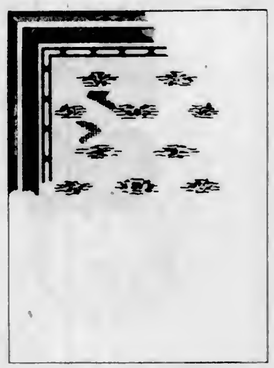
The ornamental design for a floor cloth as shown.

57,504. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,838. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

57,505. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,839. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

57,506. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,840. Term of patent 7 years.



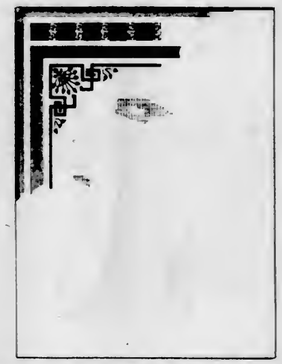
The ornamental design for a grass mat, as shown.

57,507. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,841. Term of patent 7 years.



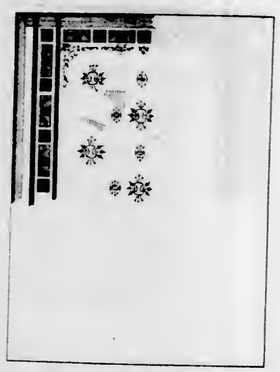
The ornamental design for a grass mat, as shown.

57,508. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,842. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

57,509. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,843. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

57,510. GRASS MAT. WILLARD T. CASE, New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1920. Serial No. 428,844. Term of patent 7 years.



The ornamental design for a grass mat, as shown.

57,511. MOUTHPIECE FOR MUSICAL INSTRUMENTS. ERNST A. COUTURIER, Laporte, Ind. Filed May 3, 1919. Serial No. 294,594. Term of patent 14 years.



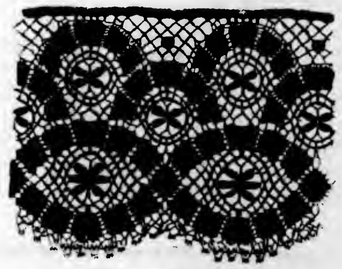
The ornamental design for a mouthpiece for a musical instrument as shown.

57,512. AUTOMOBILE SERVICE-FLAG. JOSEPHINE B. DANFORTH, Chattanooga, Tenn. Filed Sept. 20, 1918. Serial No. 254,997. Term of patent 3½ years.



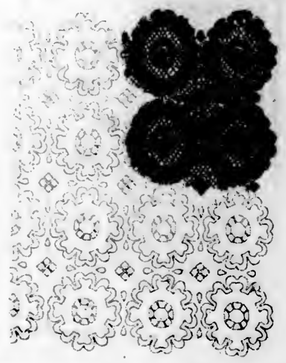
The ornamental design for an automobile service flag as shown.

57,513. LACE. MARC H. DAUDY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1920. Serial No. 353,337. Term of patent 3½ years.



The ornamental design for lace, substantially as shown.

57,514. LACE. MARC H. DAUDY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1920. Serial No. 428,819. Term of patent 3½ years.



The ornamental design for lace, substantially as shown.

57,515. DOLL. SOPHIA E. DELAVAN, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 431,774. Term of patent 7 years.



The ornamental design for a doll as shown.

57,516. BADGE. GEORGE A. DESENFANT, San Francisco, Calif. Filed June 28, 1919. Serial No. 307,478. Term of patent 7 years.



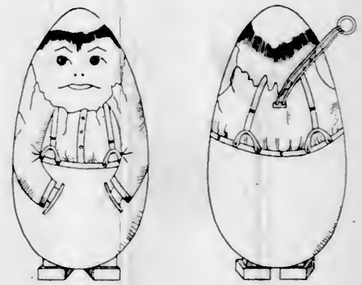
The ornamental design for a badge, as shown.

57,517. BADGE. CHARLES J. DIEGES, New York, N. Y. Filed Dec. 17, 1920. Serial No. 431,488. Term of patent 7 years.



The ornamental design for a badge, as shown.

57,518. FIGURE TOY. CORA G. ECKERT, Los Angeles, Calif. Filed Oct. 19, 1920. Serial No. 418,107. Term of patent 14 years.



The ornamental design for a figure toy as shown.

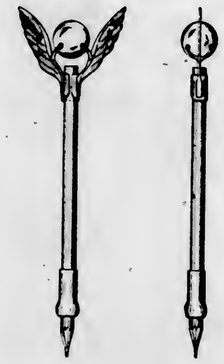
57,519. DOLL. OVERTON WOODARD ENNIS, Washington, D. C. Filed Nov. 3, 1920. Serial No. 421,604. Term of patent 7 years.





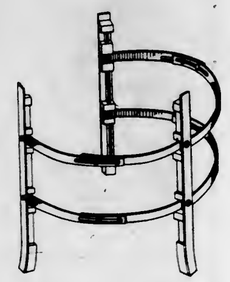
The ornamental design for a doll, as shown.

57,520. PENCIL. MARJORIE PHYLLIS DYRENFORTH FORTUNE, Los Angeles, Calif. Filed Aug. 17, 1920. Serial No. 404,272. Term of patent 3½ years.



The ornamental design for a pencil as shown.

57,521. DOMESTIC-BOILER STAND. LEO V. GELDER, Oakland, Calif. Filed July 19, 1920. Serial No. 397,513. Term of patent 7 years.



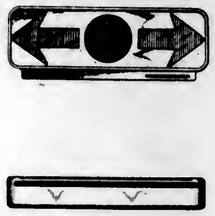
The ornamental design for a domestic boiler stand, as shown.

57,522. FONT OF TYPE. MELVIN R. HALL, Columbus, Ohio. Filed July 16, 1920. Serial No. 396,848. Term of patent 3½ years.



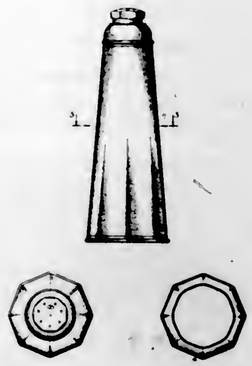
The ornamental design for a font of type, as shown.

57,523. COMBINATION AUTOMOBILE TAIL-LIGHT AND DIRECTION-INDICATOR. WILLIAM P. HAMMOND, Passaic, N. J. Filed Feb. 6, 1917. Serial No. 147,003. Term of patent 14 years.



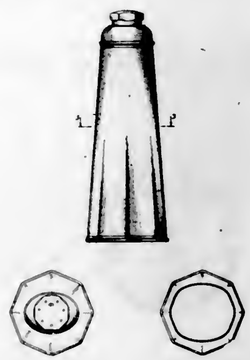
The ornamental design for a combination automobile tail light and direction indicator, as shown.

57,524. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,815. Term of patent 14 years.



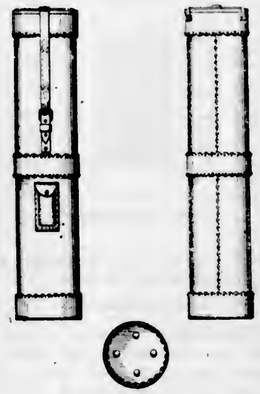
The ornamental design for a powder container or similar receptacle as shown.

57,525. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 26, 1920. Serial No. 392,096. Term of patent 14 years.



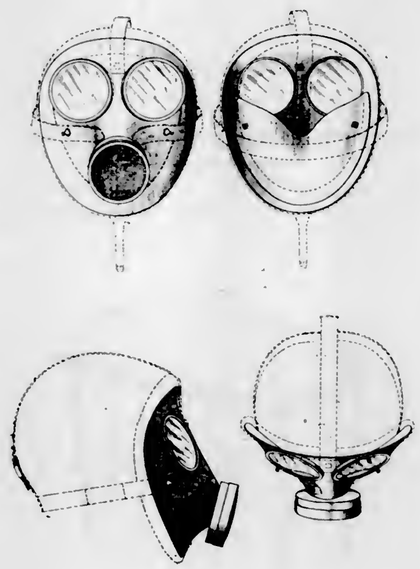
The ornamental design for a powder container or similar receptacle as shown.

57,526. CADDIE-BAG. BYRON R. HUNT, Indianapolis, Ind. Filed June 25, 1920. Serial No. 391,819. Term of patent 3½ years.



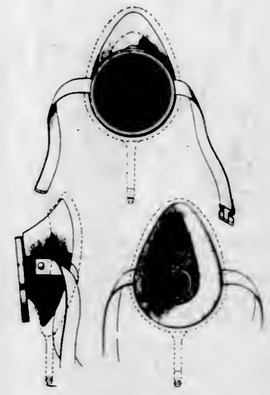
The ornamental design for a caddie bag as shown.

57,527. RESPIRATOR-MASK. JAMES W. KNOBLOCK, Elmira, N. Y., assignor to American La France Fire Engine Co. Inc., Elmira, N. Y., a Corporation of New York. Filed Mar. 26, 1920. Serial No. 369,101. Term of patent 7 years.



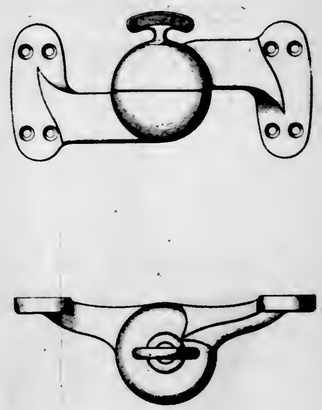
The ornamental design for a respirator mask as shown.

57,528. RESPIRATOR. JAMES W. KNOBLOCK, Elmira, N. Y., assignor to American La France Fire Engine Co. Inc., Elmira, N. Y., a Corporation of New York. Filed Mar. 26, 1920. Serial No. 369,102. Term of patent 7 years.



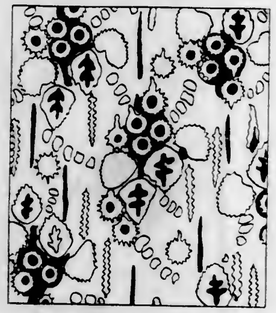
The ornamental design for a respirator as shown.

57,529. HINGE. AUGUST KOETTING, Brooklyn, N. Y. Filed Aug. 18, 1920. Serial No. 404,430. Term of patent 14 years.



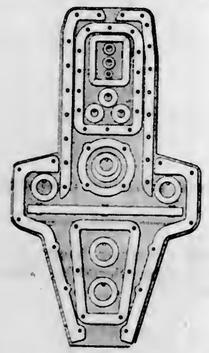
The ornamental design for a hinge, as shown.

57,530. TEXTILE FABRIC. ELLA KAUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 7, 1920. Serial No. 429,004. Term of patent 3½ years.



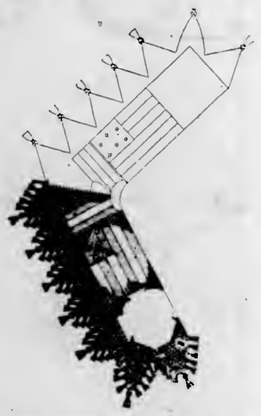
The ornamental design for a textile fabric, as shown.

57,531. DISPLAY-PACKAGE OF PACKING-GASKETS. FRED A. LARAWAY, Cleveland, N. Y. Filed Aug. 12, 1920. Serial No. 403,174. Term of patent 7 years.



The ornamental design for a display package of packing gaskets, as shown.

57,532. SCARF. ANNA LAZAR, North Detroit, Mich. Filed Nov. 22, 1920. Serial No. 425,915. Term of patent 7 years.



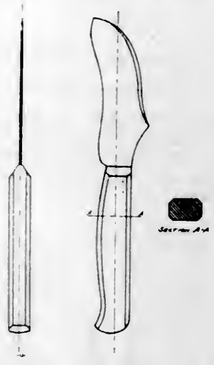
The ornamental design for a scarf, as shown.

57,533. FLAG, PENNANT, SIGN, EMBLEM, OR ARTICLE OF SIMILAR NATURE. AUGUST LE FEVRE, Detroit, Mich. Filed Oct. 2, 1918. Serial No. 256,610. Term of patent 7 years.



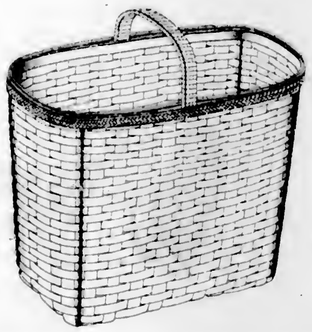
The ornamental design for a flag, pennant, sign, emblem, or article of a similar nature, as shown.

57,534. POTATO-KNIFE. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,962. Term of patent 14 years.



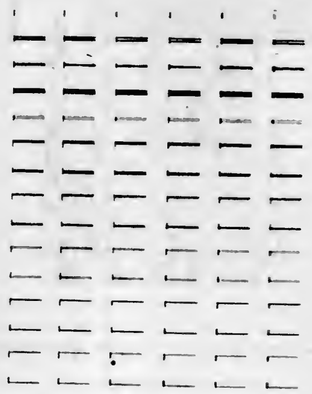
The ornamental design for a potato knife, as shown.

57,535. BASKET. ISADOR E. LOEWENBERG, Converse, Ind., assignor to Wabash Basket Company, Marion, Ind., a Corporation of Indiana. Filed Dec. 23, 1919. Serial No. 347,025. Term of patent 14 years.



The ornamental design for a basket, as shown.

57,536. FONT OF TYPE. BENJAMIN F. MANNES, Chippewa Falls, Wis. Filed June 30, 1919. Serial No. 307,874. Term of patent 14 years.



The ornamental design for a font of type for use in printing lines, as shown.

57,537. APPLIQUÉ TRIMMING FOR WEARING-APPAREL OR ARTICLE OF SIMILAR NATURE. OTTO E. MAUL, Mount Vernon, N. Y. Filed Sept. 30, 1920. Serial No. 413,921. Term of patent 7 years.



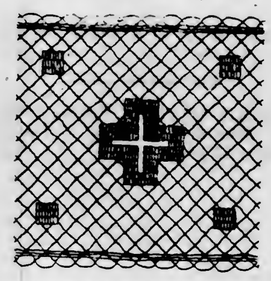
The ornamental design for appliqué trimming for wearing apparel or article of similar nature, as shown.

57,538. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Dec. 8, 1920. Serial No. 429,289. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

57,539. NETTED FABRIC. HERMAN T. MENDELSOHN, New York, N. Y., assignor to Simon & Mendelsohn, New York, N. Y., a Copartnership composed of Samuel Simon and Herman T. Mendelsohn. Filed Aug. 9, 1920. Serial No. 402,444. Term of patent 7 years.



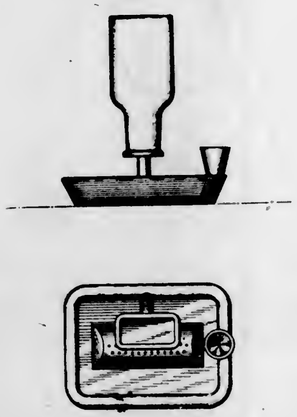
The ornamental design for a netted fabric as shown.

57,540. HOSIERY. JOHN P. NISSEN, Philadelphia, Pa. Filed Dec. 1, 1920. Serial No. 427,632. Term of patent 14 years.



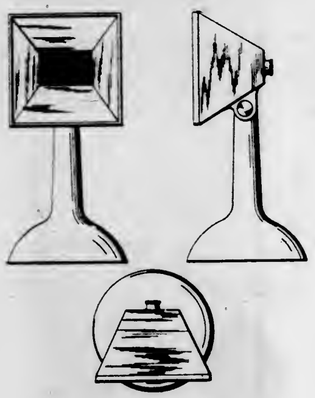
The ornamental design for hosiery, as shown.

57,541. COMBINATION ASH-TRAY AND CIGAR-HOLDER. JAMES EDWARD O'BRIEN, Hinton, W. Va. Filed June 11, 1920. Serial No. 388,365. Term of patent 3½ years.



The ornamental design for a combination ash tray and cigar holder as shown.

57,542. ELECTRIC HEATER. GEORGE POTSTADA, Oakland, Calif. Filed Sept. 21, 1920. Serial No. 411,816. Term of patent 14 years.



The ornamental design for an electric heater substantially as shown.

57,543. TEXTILE FABRIC. RUBY L. REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 7, 1920. Serial No. 429,001. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

57,544. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Dec. 7, 1920. Serial No. 429,002. Term of patent 3½ years.



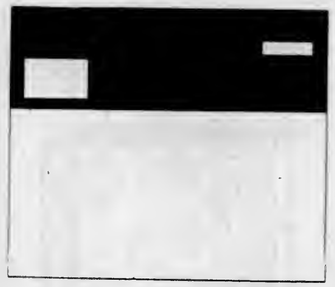
The ornamental design for a textile fabric, as shown.

57,545. BADGE OR EMBLEM. FRANK S. SHANKLAND, Des Moines, Iowa. Filed Oct. 14, 1920. Serial No. 417,060. Term of patent 7 years.



The ornamental design for a badge or emblem, as shown.

57,546. LETTERHEAD. WALTER P. SOUTHARD, Rocky River, Ohio. Filed Aug. 5, 1920. Serial No. 401,520. Term of patent 14 years.



The ornamental design for a letterhead, as shown.

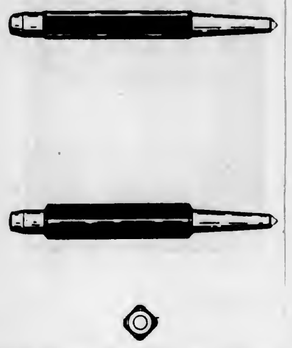
57,547. DOLL-HEAD. EDWARD H. SPRINGER, Santa Monica, Calif. Filed July 2, 1920. Serial No. 393,724. Term of patent 7 years.





The ornamental design for a doll head as shown.

57,548. PRICK-PUNCH, NAIL-SET, OR ARTICLE OF SIMILAR NATURE. ARTHUR H. STARRETT, Athol, Mass., assignor to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1920. Serial No. 365,350. Term of patent 14 years.



The ornamental design for a prick punch, nail set, or article of similar nature, as shown.

57,549. TIRE-CHAIN TOOL. WILLIAM J. VAN KUREN, Binghamton, N. Y., assignor to Central Flatiron Mfg. Co., Johnson City, N. Y., a Corporation of New York. Filed Sept. 8, 1920. Serial No. 409,005. Term of patent 14 years.



The ornamental design for a tire chain tool, substantially as shown.

57,550. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,789. Term of patent 3½ years.



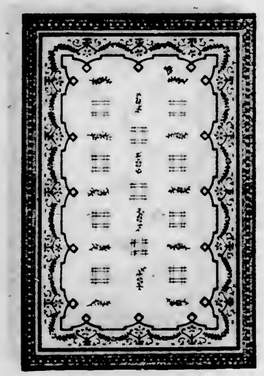
The ornamental design for a rug, as shown.

57,551. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,790. Term of patent 3½ years.



The ornamental design for a rug, as shown.

57,552. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,791. Term of patent 3½ years.



The ornamental design for a rug, as shown.

57,553. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,792. Term of patent 3½ years.



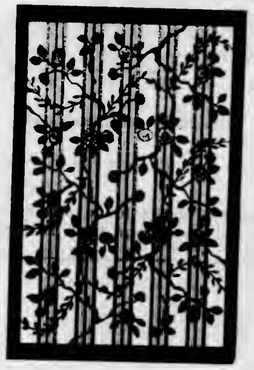
The ornamental design for a rug, as shown.

57,554. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,793. Term of patent 3½ years.



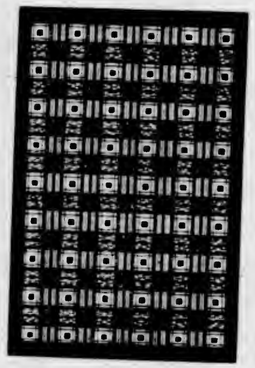
The ornamental design for a rug, as shown.

57,555. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,795. Term of patent 3½ years.



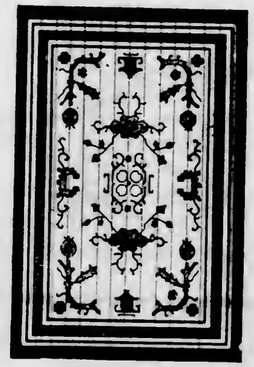
The ornamental design for a rug, as shown.

57,556. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial 434,796. Term of patent 3½ years.



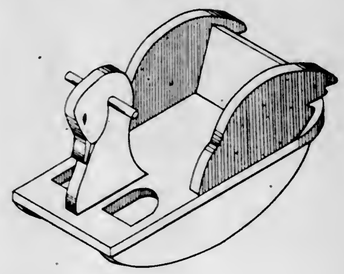
The ornamental design for a rug, as shown.

57,557. RUG. ALGERMONT H. WALDO, St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,797. Term of patent 3½ years.



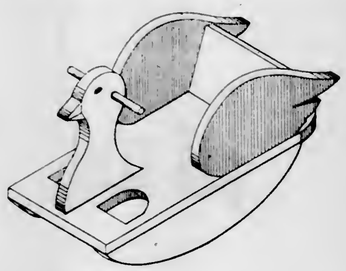
The ornamental design for a rug, as shown.

57,558. ROCKING-HORSE. JESSE H. WEBB, Rochester, N. Y. Filed Nov. 1, 1919. Serial No. 335,213. Term of patent 7 years.



The ornamental design for a rocking horse as shown.

57,559. ROCKING-HORSE. JESSE H. WEBB, Rochester, N. Y. Filed Nov. 1, 1919. Serial No. 335,214. Term of patent 7 years.



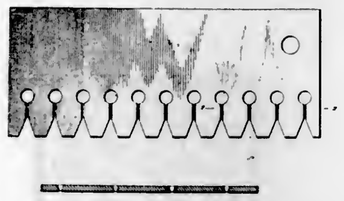
The ornamental design for a rocking horse as shown.

57,560. ATTACHMENT FOR CHAIRS. JOHN L. WILCOX, Seattle, Wash. Filed Mar. 15, 1920. Serial No 366,108. Term of patent 14 years.



The ornamental design for an attachment for chairs, as shown.

57,561. CLEANING AND ALINING DEVICE FOR GIN AND DELINTER SAW-TEETH. JAMES WILSON Pueblo, Colo. Filed Apr. 12, 1920. Serial No. 373,399 Term of patent 14 years.



The ornamental design for a cleaning and alining device for gin and delinter saw teeth, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 12, 1921.

[PUBLISHED APRIL 15, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 107,333. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NAVY LEAGUE OF THE UNITED STATES, Washington, D. C. Filed Nov. 12, 1917.



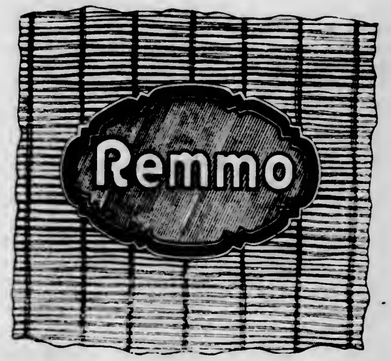
Particular description of goods.—Fancy Silk or Cloth Bags Designed for Holding Knitting or Sewing Material.
Claims use since Aug. 1, 1917.

Ser. No. 107,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALLARÉS HERMANOS, Cabra, Spain. Filed Dec. 3, 1917.



Particular description of goods.—Olive Oil.
Claims use since Sept. 6, 1917.

Ser. No. 113,890. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE REMMERS SOAP COMPANY, Cincinnati, Ohio. Filed Oct. 25, 1918.



The lining shown in the drawing inside the oval is for shading only.
Particular description of goods.—Toilet Soap.
Claims use since Oct. 1, 1918.

Ser. No. 115,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa. Filed Feb. 10, 1919.



Particular description of goods.—Popcorn in Its Natural State.
Claims use since Apr. 1, 1914.

Ser. No. 115,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa. Filed Feb. 10, 1919.



Particular description of goods.—Pop Corn in Its Natural State.
Claims use since Nov. 1, 1915.

Ser. No. 119,208. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE OLD HICKORY CHAIR COMPANY, Martinsville, Ind. Filed June 4, 1919. Under ten-year proviso.



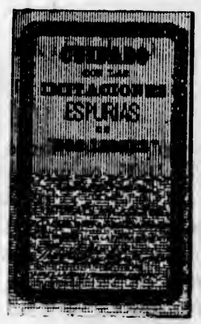
Particular description of goods.—Rustic Furniture for Porches, Lawns, Gardens, &c.—Namely, Rustic Chairs, Stools, Settees, Lounges, Tables, Swings, Hat-Trees, Umbrella-Stands.
Claims use since June 18, 1890.

Ser. No. 119,824. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER A. CAVERLEY, Dayton, Ohio. Filed June 21, 1919.



Particular description of goods.—Chocolates and Chewing-Gum.
Claims use since June 3, 1919.

Ser. No. 123,576. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THOS. HUBBUCK & SON, LIMITED, London, England. Filed Oct. 9, 1919.



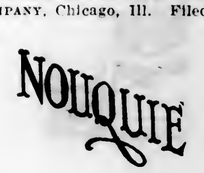
The several words with the exception of the words "Dos Leones" and the facsimile signature being disclaimed apart from the other features, the color-lines indicating red in the upper half of the label and yellow in the lower half.
Particular description of goods.—Pigments in Oil, Pigments in Varnish, Pigments in Turpentine, Ship-Paints, Household Paints, and Enamel Paints.
Claims use since 1886.

Ser. No. 124,957. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANK P. SMITH, Huntington, Ind. Filed Nov. 15, 1919.



No claim being made for the exclusive use of the word "Nu-Shine" or the phrase "It Has Never Checked Yet" apart from the mark shown in the drawing.
Particular description of goods.—A Polish for Furniture and Automobiles.
Claims use since Jan. 1, 1915.

Ser. No. 125,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOUQUIE COMPANY, Chicago, Ill. Filed Nov. 17, 1919.



Particular description of goods.—Lotions That Improve and Whiten the Skin and, if Applied Before Powdering, Same Will Adhere.
Claims use since Aug. 2, 1919.

Ser. No. 125,427. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) S. & B. LEBOWICH CO., Providence, R. I. Filed Nov. 29, 1919.



No claim is made to the word "Veribest" except in connection with the mark as shown. The shading in the drawing represents the border and the letters as being colored red.
Particular description of goods.—Cuff-Buttons Which Are Made of or Plated with Precious Metal.
Claims use since Nov. 18, 1919.

Ser. No. 125,497. (CLASS 39. CLOTHING.) JACOB GOLDSTEIN, New York, N. Y. Filed Dec. 2, 1919.

EAGLE

Particular description of goods.—Leather Boots and Shoes.
Claims use since Aug. 1, 1897.

Ser. No. 126,128. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) INTERNATIONAL CORK COMPANY, Brooklyn, N. Y. Filed Dec. 16, 1919.

RE-LY-ON

The word "Re-ly-on."
Particular description of goods.—Cork Composition Used as a Covering for Rolls, Flexible Cork Innersoling for Shoes, Bungs, Bath and Table Mats Made of Cork.
Claims use since July 10, 1919.

Ser. No. 126,240. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa. Filed Dec. 19, 1919.



No claim is made herein for the word "Trinidad" or "Shingle" apart from the other features of the mark shown.
Particular description of goods.—Waterproof Roofing Sheets and Shingles.
Claims use since Nov. 22, 1919.

Ser. No. 126,374. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAPE OLA PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 23, 1919.



In the drawing the words "Vintage Grape Juice" are printed on a red background contained in a diamond-shaped frame. The words "Vintage Grape Juice" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Grape-Juice.
Claims use since Mar. 1, 1919.

Ser. No. 126,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CALCO CHEMICAL COMPANY, Boundbrook, N. J. Filed Dec. 26, 1919.

Calco

Particular description of goods.—Tolysin, Benzidin, Calco, Antipyrin U. S. P., Cinchophen Calco, Albutannin, Acetannin, Methylene-Blue U. S. P., Beta-Naphthol U. S. P., Beta-Naphthol Benzoate A. M. A., Benzonaphthol A. M. A., Calco Antiseptic, Calco Anilin-Oil, Calco Anilin-Salt, Calco Beta-Naphthol, Calco Dinitrobenzol, Calco Dimethylanilin, Calco G Salt, Calco Nitrosodimethylanilin Base, Calco Nitrosodimethylanilin Hydrochlorid, Calco Nitrobenzol, Calco Nitroxylol, Calco Oil of Mirbane, Calco Phenylhydrazin, Parasulfonic Acid, Calco Picramate of

Soda, Calco R Salt, Calco Sulfanilic Acid, Calco Xylidin, Calco Alizarin-Blue R B N, Calco Alizarin-Blue R B N Extra, Calco Alizarin-Yellow 2 G, Calco Chrome-Brown Paste, Calco Chrome-Orange, Calco Chrome-Yellow N, Calco Crimson B, Calco Crimson Y, Calco Fast Red A, Calco Methylene-Blue, Calco Methylene-Blue 2 B, Calco Methylene-Blue 2 B Special, Calco Methylene-Blue 2 B C, Calco Methylene-Blue 2 B X, Calco Neutral Gray, Calco Orange 11, Calco Orange G, Calco Scarlet R X, Calco Scarlet 2 R, Calco Scarlet 3 R X, Calco Scarlet 4 R, Calco Lake Scarlet 2 R, Calco Tartrazin R X, Calco Nigrosin W. S. B., Calco Dioxytartaric Acid, Calco Metaphenylenediamin, Calco Metaxylidin Salt, and Essential Oils for Use in the Manufacture of Perfumes.

Claims use since about July 1, 1919.

Ser. No. 126,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Dec. 27, 1919.

SUNSET

Particular description of goods.—Chocolate Coating.
Claims use since the year 1914.

Ser. No. 126,808. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 5, 1920.

Blackhawk

Particular description of goods.—Leather.
Claims use since 1912.

Ser. No. 127,024. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALPHA LABORATORIES, INC., New York, N. Y. Filed Jan. 12, 1920.

ALPHA

Trade-mark consisting of the word "Alpha."
Particular description of goods.—Incandescent Lamps.
Claims use since Jan. 1, 1915.

Ser. No. 127,066. (CLASS 15. OILS AND GREASES.) OHIO REFINING COMPANY, Cincinnati, Ohio. Filed Jan. 12, 1920.



The words "Petroleum Products, Ohio" appearing on the drawing are disclaimed except in connection with the use of applicant's mark. The inner circle and also the letters "I L S" inclosed therein are red, as shown in the drawing.
Particular description of goods.—Gasolene, Naphtha, Kerosene, Gas-Oil, Distillate, and Fuel-Oil.
Claims use since Jan. 1, 1919.

Ser. No. 127,179. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE GRIFFIN MFG. CO., Boston, Mass. Filed Jan. 15, 1920.

MULTIPLEX

Particular description of goods.—Spark-Plugs.
Claims use since about July 22, 1919.

Ser. No. 127,480. (CLASS 39. CLOTHING.) THE KELLER KNITTING COMPANY, Cleveland, Ohio. Filed Jan. 22, 1920.

KELLER KOAT

No claim is made to the words "Keller Koat" apart from the mark shown in the drawing.
Particular description of goods.—Knitted Sweaters and Sweater-Coats.
Claims use since about the 1st of December, 1911.

Ser. No. 127,498. (CLASS 12. CONSTRUCTION MATERIALS.) N. V. EERSTE NEDERLANDSCHE FABRIEK VAN ASBEST-CEMENTPLATEN, Amsterdam, Netherlands. Filed Jan. 23, 1920.



No claim is made to the words "Gedeponeerd Handelmerk, Amsterdam" apart from the mark as shown in the drawing.
Particular description of goods.—Sheets and Slates Made of Asbestos and Cement and Used for Building Purposes.
Claims use since January, 1913.

Ser. No. 127,598. (CLASS 39. CLOTHING.) LOCKHART SPIRAL SERVICE LEGGINGS, INC., Brooklyn, N. Y. Filed Jan. 26, 1920.



No claim being made to the word "Puttees" nor the representation thereof except in the form and the relation shown in the drawing.
Particular description of goods.—Spiral Puttees.
Claims use since the early part of August, 1919.

Ser. No. 127,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed Feb. 4, 1920.

QUICK WHIP

Particular description of goods.—Egg-White Preparation in Powdered Form Used by Bakers and Confectioners for Making White Cake, Kisses, Meringues, and Similar Products.
Claims use since Feb. 8, 1911.

Ser. No. 128,051. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SANFORD MILLS, Sanford, Me. Filed Feb. 6, 1920.

Leatherwove
"'Tis like the hide in most respects; in some respects 'Tis better"

No claim being made to the exclusive use of the words "'Tis Like the Hide in Most Respects; in Some Respects 'Tis Better" apart from the mark as shown in the drawing.
Particular description of goods.—Artificial Leather.
Claims use since Jan. 11, 1917.

Ser. No. 128,053. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE ARTHUR B. SHEPARD COMPANY, Cleveland, Ohio. Filed Feb. 6, 1920.

SHEPARD BUILDINGS
EXCELLENCE-ECONOMY

No claim is made to the words "Registered U. S. Pat. Off." and no claim is made to the word "Buildings" apart from the mark shown on the drawing.
Particular description of goods.—Standard Factory and other Buildings and Partially-Fabricated Parts Thereof—Namely, Beams, Columns, Trusses, Window-Frames, Skylight-Frames, Doors, and Wall-Sections.
Claims use since Jan. 20, 1919.

Ser. No. 128,577. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WORTHINGTON BALL COMPANY, Elyria, Ohio. Filed Feb. 18, 1920.

THREE POINT

Particular description of goods.—Golf-Balls.
Claims use since Dec. 14, 1916.

Ser. No. 129,070. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MCDONALD BROS. CO., Minneapolis, Minn. Filed Mar. 1, 1920.

RELY-ON

Particular description of goods.—Cotton, Wool, and Linen Goods in the Piece.
Claims use since July 15, 1919.

Ser. No. 129,270. (CLASS 39. CLOTHING.) MCKIBBIN, DRISCOLL & DORSEY, INC., St. Paul, Minn. Filed Mar. 5, 1920.

McKibbin Hats
Always right on top

No claim being made to the words "McKibbin Hats."
Particular description of goods.—Men's Hats.
Claims use since on or about July 1, 1919.

Ser. No. 130,031. (CLASS 39. CLOTHING.) GORDON & FERGUSON, St. Paul, Minn. Filed Mar. 22, 1920.

Gordon

The trade-mark is a facsimile of the signature of Charles W. Gordon, president of the corporation.
Particular description of goods.—Leather, Fur, and Fabric Gloves; Hats and Caps of Fur and Fabric for Men, Women, and Children; Capes of Fur and Fabric, Leather Vests, Leather Overcoats, Fur Overcoats, Fur-Lined Overcoats, Sheepskin-Lined Overcoats.
Claims use since about Jan. 1, 1915.

Ser. No. 130,963. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed Apr. 10, 1920.

O.K. WHIP

Particular description of goods.—Egg-White Preparation in Powdered Form Used by Bakers and Confectioners for Making White Cake, Kisses, Meringues, and Similar Products.
Claims use since Oct. 14, 1911.

Ser. No. 131,052. (CLASS 2. RECEPTACLES.) WILSON & BENNETT MFG. COMPANY, Chicago, Ill. Filed Apr. 12, 1920.

BENCO

Particular description of goods.—Galvanized, Black-Iron, and Sheet-Iron Containers Consisting of Shipping-Cans, Barrels, Drums, and Tanks.
Claims use since on or about Mar. 1, 1920.

Ser. No. 131,815. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DANCIGER BROTHERS, Kansas City, Mo. Filed Apr. 19, 1920.

GINGER SNAP

"MAKES YOU FEEL LIKE A FIGHTING COCK"

No claim being made to the phrase "Makes You Feel Like a Fighting Cock" apart from the mark shown on the drawing.

Particular description of goods.—Non-Intoxicating, Non-Cereal, Maltless Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.

Claims use since November, 1919.

Ser. No. 131,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD CHARLES BAELSFORD, Wilkes-Barre, Pa. Filed Apr. 26, 1920.

RIDINE

Particular description of goods.—Antiseptic Gargle, Hair-Tonic, and Ointment for Rheumatism, Neuritis, Piles, Sunburn, Sore and Tired Feet, Chafing, Itch, Pimples, Burns, Eczema, Headache, and Toothache.

Claims use since July, 1919.

Ser. No. 132,429. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLUMBUS POLISH MFG. CO., INC., New York, N. Y. Filed May 14, 1920.

SAVE SOS OUR SHOES

Particular description of goods.—Shoe-Polishes.

Claims use since the 1st of April, 1919.

Ser. No. 132,816. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SCHEFFLER HAIR COLORINE COMPANY, New York, N. Y. Filed May 22, 1920. Under ten-year proviso.

Colorine

Particular description of goods.—Hair-Dye.

Claims use since Mar. 1, 1878.

Ser. No. 133,062. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NEW ENGLAND WASTE COMPANY, Boston, Mass. Filed May 28, 1920.

WEY

Particular description of goods.—Egyptian-Waste-Cotton Strips.

Claims use since Apr. 15, 1920.

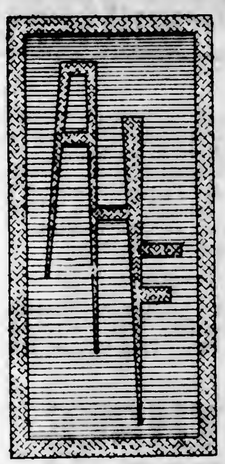
Ser. No. 133,465. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORTON-PEW FISHERIES COMPANY, Gloucester, Mass. Filed June 9, 1920. Under ten-year proviso.

GORTON'S

Particular description of goods.—Cod, Haddock, Hake, Pollock, Cusk, Whiting, Mackerel, Herring, Sardines, Halibut, Salmon, Clams, Grayfish, Swordfish, Fish Cakes, Fish Balls, Clam Bouillon, Clam-Chowder, Roe and Roe Products, Fish-Melt, Shad, Mussels, Fish-Chowder, Fish-Hash, Fish-Oils, Fish and Meat Sauce, Fish-Meal, Antipasti, Fresh, Salted, Dried, or Canned.

Claims use since 1875.

Ser. No. 133,873. (CLASS 39. CLOTHING.) A. H. FLANDERS COMPANY, Chicago, Ill. Filed June 18, 1920.



The mark shown is lined to indicate blue and orange coloring.

Particular description of goods.—Ladies' Wearing-Apparel—Namely, Blouses, Gowns, Suits, Coats, Capes, and Lingerie.

Claims use since June 1, 1910.

Ser. No. 134,018. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARVEY A. FENNER, Philadelphia, Pa., assignor, by mesne assignments, to Fenner Drug Company, New York, N. Y., a Corporation of Delaware. Filed June 22, 1920.

Fenner's pink specials Capsules
ONE AT NIGHT
Harry A. Fenner
Broad below Diamond
PHILADELPHIA

For the purpose of this registration, but without waiving such common-law rights thereto as I may have, no claim is made to the name "Capsules" or "One at Night" or "Broad, Below Diamond, Philadelphia" or to the words "Pink Specials" apart from the mark as shown in the drawing.

Particular description of goods.—Remedy for Congested Liver, Constipation, and Corpulency.

Claims use since February, 1919.

Ser. No. 134,416. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. GRADY, Chicago, Ill. Filed June 30, 1920.



The applicant hereby disclaims exclusive use of the words "Cooling, Healing, Antiseptic, An After Shaving Luxury" apart from the mark shown in the drawing.

Particular description of goods.—An Antiseptic Cream for Use After Shaving.

Claims use since the 1st day of February, 1919.

Ser. No. 134,750. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KOKOMO SPECIALTIES MFG. CO., Kokomo, Ind. Filed July 9, 1920.

THE WINNER

ICE CYCLE

No claim being made to the words "Ice Cycle" apart from the mark shown.

Particular description of goods.—Vehicle of the Scooter Type Having Runners for Traveling on Ice.

Claims use since on or about Dec. 1, 1919.

Ser. No. 134,814. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILFRED E. FILTEAU, Boston, Mass. Filed July 12, 1920.

MINTOFOAM

The word "Mintofoam."

Particular description of goods.—Mouth-Wash, Tooth-Powder, and Tooth-Paste.

Claims use since Jan. 6, 1920.

Ser. No. 134,838. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WM. A. MILLIKEN, New York, N. Y. Filed July 12, 1920.

MARVEL

Particular description of goods.—Dental-Plate Polish.

Claims use since March, 1918.

Ser. No. 135,235. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIXIE ICE CREAM COMPANY, Lexington, Ky. Filed July 21, 1920.

Dixie ICE CREAM

The words "Ice Cream" and "Pasteurized" are disclaimed apart from the mark as shown.

Particular description of goods.—Ice-Cream.

Claims use since Feb. 1, 1920.

Ser. No. 135,526. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 28, 1920.

LA COQUETTE

Particular description of goods.—Hand-Mirrors.

Claims use since June 1, 1918.

Ser. No. 135,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JARDOX LIMITED, London, England. Filed Aug. 6, 1920.

JARDOX

Particular description of goods.—Extract of Meat.

Claims use since Dec. 22, 1909.

Ser. No. 135,897. (CLASS 10. FERTILIZERS.) NAAMLOOZE VENNOOTSCHAP OLIEFABRIEKEN INSULINDE, Amsterdam, Netherlands. Filed Aug. 7, 1920.

OFI
TRADE MARK

The words "Trade Mark" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Residues of Oils and Fats Used as Fertilizers.

Claims use since May, 1919.

Ser. No. 135,949. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MELVILLE STOLTZ, St. Louis, Mo. Filed Aug. 9, 1920.

BILD-A-SHOW

Particular description of goods.—Toy Miniature Theater.

Claims use since Apr. 1, 1920.

Ser. No. 136,019. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOS. BRANDT & BRO., New York, N. Y. Filed Aug. 12, 1920.

VICTORY MIT

No claim being made to the word "Mit" except in connection with the other features shown on the drawing.

Particular description of goods.—A Mit Made of Fabric or Strands of Flexible Material and Metal Used for Cleaning and Scraping.

Claims use since July 1, 1920.

Ser. No. 136,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE URBAN MILLING COMPANY, Buffalo, N. Y. Filed Sept. 2, 1920.

SELIGMANN'S CROWN

Particular description of goods.—Wheat-Flour.

Claims use since Aug. 1, 1903.

Ser. No. 136,777. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOHN M. RHODES, Chicago, Ill. Filed Sept. 2, 1920.

Rhopac

Particular description of goods.—A Metallic-Faced Packing for Steam, Hot, and Cold Water, Air, Gas, and Aqua-Ammonia, Tar, Lard, and Like Pumps and All Kinds of Rotary or Reciprocating Stems.

Claims use since Aug. 1, 1920.

Ser. No. 136,878. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS B. DRAPER, Detroit, Mich. Filed Sept. 7, 1920.

Da-nite

Particular description of goods.—Quilts, Sheets, and Pillow-Cases.

Claims use since Apr. 10, 1920.

Ser. No. 137,089. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DEAN SWIFT, Washington, D. C. Filed Sept. 11, 1920.

NATURETTS

Particular description of goods.—A Medicine Used in the Treatment of Torpid Liver, Constipation, Kidney and Bladder Troubles, Anemia, Headache, Rheumatism, Eruptions of the Skin, Pimples, Tetter, Malaria, Chills and Fever, and as a Blood-Purifier.

Claims use since Feb. 1, 1911.

Ser. No. 137,093. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PREVENTO-HOLE, INC., New York, N. Y. Filed Sept. 11, 1920.

PREVENTO-HOLE



No claim being made to the exclusive use of the word "Hole" apart from the mark as shown on the drawing.

Particular description of goods.—Preparation for Increasing Wearing Properties of Fabrics.

Claims use since Aug. 1, 1920.

Ser. No. 137,115. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GEORGE W. ENO RUBBER COMPANY, Los Angeles, Calif. Filed Sept. 13, 1920.

LATITE

Particular description of goods.—Rubber Door-Mats and Bath-Mats.

Claims use since July 25, 1920.

Ser. No. 137,226. (CLASS 39. CLOTHING.) LINEHAN-CONOVER COMPANY, Worcester, Mass. Filed Sept. 15, 1920.

L.C.CO. Joan

Particular description of goods.—Corsets, Corset-Waists, and Brassières.

Claims use since June 16, 1920.

Ser. No. 137,297. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SAMUEL B. WILLIAMSON, Westport, Conn. Filed Sept. 17, 1920.

CLIMAX

Particular description of goods.—Sound-Boxes, Diaphragms, Needles, Receiving and Reproducing Instruments for Sound-Waves, Instruments for Magnifying Sound Effects, and Phonograph or Graphophone Records.

Claims use since June 1, 1920.

Ser. No. 137,332. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROGERS COMPANY, Tacoma, Wash. Filed Sept. 18, 1920.

SALADOLA

Particular description of goods.—Peanut-Oil for Use as a Salad-Dressing and other Culinary Purposes.

Claims use since Sept. 7, 1920.

Ser. No. 137,354. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSE M. BLANCO, New York, N. Y. Filed Sept. 20, 1920.

SARINA
TRADE MARK

No claim being made to the words "Trade Mark."

Particular description of goods.—Tooth-Cream, Face-Powder, Talcum Powder, Sachet-Powder, Rouge Compacts, Smelling-Salts, Perfume, Toilet Water.

Claims use since Jan. 1, 1915.

Ser. No. 137,372. (CLASS 47. WINES.) WILLIAM H. HOMMEL, Sandusky, Ohio. Filed Sept. 20, 1920.

RED STAR

Particular description of goods.—Wines and Champagnes Having an Alcoholic Content Less Than One-Half of One Per Cent.

Claims use since the spring of 1916.

Ser. No. 137,441. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AUSTEN COLOGNE COMPANY, New York, N. Y. Filed Sept. 22, 1920.

KURE-A-KUT

No claim is made to the words "Kure-a-Kut" apart from the mark as shown.

Particular description of goods.—Salve for Sores, Cuts, and Piles.

Claims use since Dec. 15, 1919.

Ser. No. 137,450. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920.

NEWERA

Particular description of goods.—Cotton Goods in the Piece.

Claims use since Apr. 10, 1915.

Ser. No. 137,457. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920.

WHITE STAR

Particular description of goods.—Sheets and Pillow-Cases and Cotton Goods in the Piece.

Claims use since June 5, 1911.

Ser. No. 137,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LILY BUTTER & EGG CO., INC., New York, N. Y. Filed Sept. 22, 1920.

Lily BRAND

Applicant hereby disclaims the word "Brand" as appearing on the drawing apart from the other features of said trade-mark.

Particular description of goods.—Butter and Eggs.

Claims use since the 1st day of October, 1919.

Ser. No. 137,523. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GOLDEN GRAIN JUICE CO., Minneapolis, Minn. Filed Sept. 23, 1920.

MINNEHAHA



Particular description of goods.—Root-Beer.

Claims use since the 1st day of March, 1920.

Ser. No. 137,600. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) AUTO ORDNANCE CORPORATION, New York, N. Y. Filed Sept. 25, 1920.

MACHINE-PISTOL

No registration rights are claimed for the words "Machine Pistol" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.

Particular description of goods.—Pistols.

Claims use since Sept. 13, 1920.

Ser. No. 137,628. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORGAN CHEMICAL CORPORATION, Ogdensburg, N. Y. Filed Sept. 25, 1920.



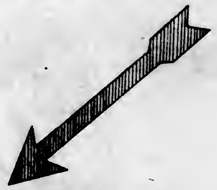
The drawing being lined partly for green.

Particular description of goods.—Insecticides, Combined Insecticides and Fungicides, and Fungicides for Plants.

Claims use since Dec. 31, 1919.

Ser. No. 137,684. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TRUBY BROOM MFG. CO., Houston, Tex. Filed Sept. 27, 1920.

RED ARROW



The mark as used is colored red.

Particular description of goods.—Brooms.

Claims use since the 5th day of April, 1920.

Ser. No. 137,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KNIGHT AND CO., INC., Lancaster, Pa. Filed Sept. 28, 1920.

MOWASH

No claim being made to the words "Trade Mark."

Particular description of goods.—Antiseptic Mouth-Wash.

Claims use since Sept. 1, 1920.

Ser. No. 137,757. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN S. BOYD COMPANY, INC., Williamstown, Mass. Filed Sept. 30, 1920.

Boyduroy

Particular description of goods.—Cotton Pile Cloth in the Piece.

Claims use since the 10th day of September, 1920.

Ser. No. 137,783. (CLASS 37. PAPER AND STATIONERY.) GEO. A. LEHMANN PAPER COMPANY, INC., New York, N. Y. Filed Sept. 30, 1920.

RADIO

Particular description of goods.—Sheet-Paper, Particularly in the Form of Writing-Paper and Bristol-Board.

Claims use since the month of March, 1919.

Ser. No. 137,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PACSULES LABORATORIES, Sioux City, Iowa. Filed Oct. 5, 1920.

PACSULES

Particular description of goods.—Non-Narcotic Capsules for Use in After-Extraction Pains, Especially After Using Novocain, Procain, &c.

Claims use since Jan. 1, 1920.

Ser. No. 137,937. (CLASS 39. CLOTHING.) MARTIN GORDON, New York, N. Y. Filed Oct. 5, 1920.



Particular description of goods.—Men's and Young Men's Outer Clothes in One, Two, and Three Piece Garments—viz., Trousers, Vests, Coats, and Overcoats.

Claims use since about Aug. 10, 1920.

Ser. No. 137,984. (CLASS 25. LOCKS AND SAFES.) WRIGHT ACCESSORIES CORPORATION, Atlanta, Ga. Filed Oct. 5, 1920.

MOTORGRIP

Particular description of goods.—Locking Device for Automobiles that Functions by Engaging the Flywheel Through the Transmission.

Claims use since Aug. 19, 1920.

Ser. No. 137,987. (CLASS 17. TOBACCO PRODUCTS.) THOMAS WARTERS, Rome, Ga. Filed Oct. 5, 1920.

Piedmont

Particular description of goods.—Cigars.

Claims use since Nov. 7, 1887.

Ser. No. 138,005. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) PROSPERO DONADIO, Brooklyn, N. Y. Filed Oct. 6, 1920.



Particular description of goods.—Revolvers.

Claims use since February, 1920.

Ser. No. 138,112. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAYMOND E. TAYLOR, Portland, Oreg. Filed Oct. 8, 1920.

FORMAZIN

Particular description of goods.—Antiseptic and Deodorant for Tender, Spongy, or Receding Gums, Sore Throat, and Tonsilitis.

Claims use since Dec. 1, 1913.

Ser. No. 138,114. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE WATERBURY FELT COMPANY, Skaneateles Falls, N. Y. Filed Oct. 8, 1920.



The trade-mark consists of the representation of a ram's head and a carpenter's square printed or impressed.

Particular description of goods.—Paper-Maker's Woolen Felts and Jackets.

Claims use since Nov. 1, 1908.

Ser. No. 138,241. (CLASS 32. FURNITURE AND UPHOLSTERY.) GEORGE A. SPIES, Lowell, Ohio. Filed Oct. 12, 1920.

B. T. S.

Particular description of goods.—Furniture—viz., Library-Tables.

Claims use since Jan. 24, 1920.

Ser. No. 138,245. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) THE WATERLOO SADDLERY COMPANY, Waterloo, Iowa. Filed Oct. 12, 1920.

Gold Bond

Particular description of goods.—Harness.

Claims use since Aug. 9, 1920.

Ser. No. 138,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILO HAY COMPANY, Newark, N. J. Filed Oct. 15, 1920.



Particular description of goods.—Henna Shampoo.

Claims use since December, 1919.

Ser. No. 138,340. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE I. E. PALMER CO., Middletown, Conn. Filed Oct. 15, 1920.



The word "Arawana" combined with an Indian head.
Particular description of goods.—Couch-Hammocks.
Claims use since Oct. 15, 1920.

Ser. No. 138,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMAN W. BRIZMAN, Cleveland, Ohio. Filed Oct. 16, 1920.

Fleur Kiss

Particular description of goods.—Hair-Tonic, Perfume, Toilet Water, Talcum, Rouge, Face-Powder, Cold-Cream, and Vanishing-Cream.
Claims use since the 20th day of June, 1920.

Ser. No. 138,389. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LIONDALE BLEACH, DYE & PRINT WORKS, INC., Rockaway, N. J. Filed Oct. 16, 1920.

LIONDALE

Particular description of goods.—Cotton and Woolen and Cotton and Silk Mixture Piece Goods.
Claims use since January, 1897.

Ser. No. 138,414. (CLASS 39. CLOTHING.) HARRY SOLOMONS & SON, New York, N. Y. Filed Oct. 16, 1920.



No claim is made to the word "Hats" apart from the mark shown on the drawing.
Particular description of goods.—Ladies' Hats, Trimmed and Untrimmed.
Claims use since June 1, 1920.

Ser. No. 138,553. (CLASS 39. CLOTHING.) ISAAC C. EBERLY, Reading, Pa. Filed Oct. 20, 1920.

OAK BROOK

Particular description of goods.—Hosiery of Cotton and Silk for Men and Ladies.
Claims use since Dec. 31, 1919.

Ser. No. 138,581. (CLASS 39. CLOTHING. H. J. MOORE GLOVE COMPANY, St. Paul, Minn. Filed Oct. 20, 1920.

MOORE-WEAR

Particular description of goods.—Gloves and Mittens of Leather, Fabric, and Combination of the Leather and Fabric.
Claims use since May 26, 1919.

Ser. No. 138,602. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SIMPLEX ELECTRIC HEATING COMPANY, Boston, Mass. Filed Oct. 20, 1920.

SIMPLEX ELECTRIC

Particular description of goods.—Electric Stoves, Electric Heaters, Electric Ovens, Electric Broilers, Electric Griddle-Cake Cookers or Toasters, Electric Waffle-Irons, Electric Frying-Kettles, Electric Plate-Warmers, Electric Heaters for Plate-Warmers or Hot-Closets, Electric Ship-Food Warmers, Electric Immersion-Coil Heaters, Electric Heating-Pads, Electric Curling-Iron Heaters, Electric Theater-Curling-Iron Heaters with Grease-Paint Trays, Electric Grease-Paint Heaters, Electric Cigar-Lighters, Electric Soldering-Irons, Electric-Soldering-Iron Automatic Rheostat-Stands, Electric Solder-Pots, Electric Embossing-Press Heaters, Electric Sealing-Wax Pots, Electric Pitch-Kettles, Electric Flask-Heaters, Electric Traveling-Irons, Electric Sewing-Room Irons, Electric Silk-Hat Irons, Electric Automatic Temperature-Regulator Stands for Irons, Electric Smoothing-Irons, Electric Polishing-Irons, Electric Sleeve-Irons, Electric Heaters for Heating-Irons and Ironing Machinery, Electric Tailor's Goose, Electric Tailor's Machine-Irons, Electric Corset-Irons, Electric Hatters' Irons, Electric Radiators, Electric Foot-Warmers, Electric Car-Heaters, Electric Ship-Heaters, Enameled Resistance Units, Enamel Field-Rheostats, Motor-Starting Rheostats, Motor-Controlling Rheostats, Fan-Motor-Speed-Controlling Rheostats, Speed-Controllers for Fan-Motors, Speed-Regulators for Fan-Motors, and Theater-Dimmers.
Claims use since July 1, 1920.

Ser. No. 138,607. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. D. SMITH DRUG CO., St. Joseph, Mo. Filed Oct. 20, 1920.

LYPTOMENTH

Particular description of goods.—Antiseptic Solution.
Claims use since July 26, 1920.

Ser. No. 138,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED W. CLEMENTS, Rochester, N. Y. Filed Oct. 22, 1920.



Particular description of goods.—Palliative for Pyorrhea Alveolaris or Rigg's Disease.
Claims use since May, 1911.

Ser. No. 138,733. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAVINO SALIERNO, Boston, Mass. Filed Oct. 23, 1920.



Particular description of goods.—Non-Alcoholic Maltless Beverages Used as Soft Drinks.
Claims use since July 1, 1919.

Ser. No. 138,757. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MARY B. CAPEN, Detroit, Mich. Filed Oct. 25, 1920.

BASKART

Particular description of goods.—Market-Baskets on Wheels.
Claims use since about Dec. 20, 1919.

Ser. No. 138,768. (CLASS 39. CLOTHING.) KEET & ROUNTREE DRY GOODS CO., Springfield, Mo. Filed Oct. 25, 1920.



The lining on the drawing is for red within the diamond and for blue outside the diamond and within the parallelogram. Use of the word "Improved" apart from the mark shown on the drawing is disclaimed.
Particular description of goods.—Overalls.
Claims use since May 1, 1920.

Ser. No. 138,773. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Oct. 25, 1920.

Piedmont

Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since 1905.

Ser. No. 138,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. CHARLES S. MOORE, Eldora, Iowa. Filed Oct. 26, 1920.

C. M. F.

Particular description of goods.—Worm-Destroyer, Hog-Tonic, and Poultry-Regulator.
Claims use since Jan. 1, 1919.

Ser. No. 138,820. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD M. MCARTHUR & CO. LIMITED, Liverpool, England. Filed Oct. 26, 1920.

MAXYNCROM

Particular description of goods.—Tanning Materials.
Claims use since the 9th day of January, 1920.

Ser. No. 138,834. (CLASS 39. CLOTHING.) HARRY BERGER, New York, N. Y. Filed Oct. 27, 1920.

Harry Berger

The trade-mark is a facsimile of the autograph signature of the applicant.

Particular description of goods.—Men's and Boys' Shirts—Namely, Dress, Negligée, and Work Shirts Made of Cotton, Cotton and Silk Mixtures, Artificial-Fiber Mixtures, and Pure Silks.

Claims use since Sept. 1, 1919.

Ser. No. 138,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZENITH MFG. CO., Atlanta, Ga. Filed Oct. 29, 1920.

Zenith

Particular description of goods.—Preparation for the Treatment of Kinky Hair.

Claims use since Sept. 24, 1920.

Ser. No. 139,038. (CLASS 6, CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE E. E. HESS COMPANY, Brook, Ind. Filed Nov. 1, 1920.

Hess

Particular description of goods.—Witch-Hazel Cream.

Claims use since Sept. 1, 1920.

Ser. No. 139,052. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSE DRUG COMPANY, Vicksburg, Miss. Filed Nov. 1, 1920.

KRACK-SHOT

Particular description of goods.—Liquid Medicinal Preparation for the Treatment of the Liver and Kidneys.

Claims use since May 1, 1920.

Ser. No. 139,057. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLOMA HASTINGS SCOTT, Omaha, Nebr. Filed Nov. 1, 1920.

GERMIGROW

Particular description of goods.—Preparation for Scalp Diseases.

Claims use since Sept. 1, 1919.

Ser. No. 139,066. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUSTAVE VOGEL, St. Louis, Mo. Filed Nov. 1, 1920.

The Speciola

Particular description of goods.—Hair-Nets.

Claims use since Oct. 1, 1918.

Ser. No. 139,072. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED A. BURNHAM, Boston, Mass. Filed Nov. 2, 1920. Under ten-year proviso.

LAKIN'S HEDAKE KOLONE

Particular description of goods.—Externally-Applied Compound for the Remedy of Headaches.

Claims use since June 1, 1887.

Ser. No. 139,094. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUFUS J. RUGLEN, Detroit, Mich. Filed Nov. 2, 1920.

EAUDEMORT

Particular description of goods.—Disinfectants, Insecticides, and Exterminators.

Claims use since the 1st day of September, 1919.

Ser. No. 139,106. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. C. H. BERRY CHEMICAL CO., Chicago, Ill. Filed Nov. 3, 1920. Under ten-year proviso.

DR. C. H. BERRY'S FRECKLE OINTMENT

Particular description of goods.—Face Cream or Ointment.

Claims use since 1883.

Ser. No. 139,130. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) S. S. S. MFG. CO., Madisonville, Ky. Filed Nov. 3, 1920.



In which the border of the circular design, together with a narrow band through the center thereof, is lined for yellow, indicating a yellow or orange coloration. No claim is made to the words "Made in Old Kentucky" apart from the mark shown by the drawing.

Particular description of goods.—Non-Alcoholic, Plain or Carbonated, Maltless Beverage with Only a Trace of Alcohol, of One-Tenth or Less Than One-Tenth of One Per Cent. Sold at Fountains, in Bottles, and other Containers.

Claims use since Aug. 1, 1920.

Ser. No. 139,133. (CLASS 39. CLOTHING.) GEORGE SCHULMAN, New York, N. Y. Filed Nov. 3, 1920.

ARCADY

Particular description of goods.—Dresses.

Claims use since Oct. 21, 1920.

Ser. No. 139,149. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CENTRAL-SPÉCIALITÉS SOCIÉTÉ ANONYME, Paris, France. Filed Nov. 4, 1920.



DALYB

Particular description of goods.—Hygienic Powder for the Toilet and Bath, Dentifrices, Beauty-Cream, and Perfumes.

Claims use since June 30, 1920.

Ser. No. 139,165. (CLASS 43. THREAD AND YARN.) THE LINEN THREAD COMPANY, New York, N. Y. Filed Nov. 4, 1920.

INTERNATIONAL

Consisting of the word "International."

Particular description of goods.—Linen Thread.

Claims use since about 1891.

Ser. No. 139,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL POZMANTIER, New York, N. Y. Filed Nov. 4, 1920.



MOTHERINE

The picture shown in the drawing is a facsimile of the photograph of Mrs. Lena Pozmantier, deceased.

Particular description of goods.—Preparations for the Treatment of Boils, Burns, Wounds, and Similar Ailments.

Claims use since Oct. 25, 1920.

Ser. No. 139,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HINDU CHEMICAL CO., Houston, Tex. Filed Nov. 5, 1920.



Particular description of goods.—Preparation for the Local Treatment of Piles.

Claims use since Oct. 13, 1920.

Ser. No. 139,237. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) VIKING SIGN COMPANY, INC., New York, N. Y. Filed Nov. 5, 1920.



No claim is made for the word "Signs" apart from the mark shown in the drawing.

Particular description of goods.—Electrical Advertising and Directional Signs of All Kinds.

Claims use since Sept. 29, 1917.

Ser. No. 139,250. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. C. COOK & CO., INC., New York, N. Y. Filed Nov. 6, 1920.

N-TER-SAL

Particular description of goods.—Remedy for Constipation, Intestinal and Hepatic Disorders, Gout, and Rheumatism and an Eliminant for Uric Acid.
Claims use since Oct. 15, 1920.

Ser. No. 139,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. H. HUNSTOCK CHEMICAL CO., St. Louis, Mo. Filed Nov. 6, 1920.

INDIGADINA DE HUNSTOCK

Particular description of goods.—Pills for Biliousness, Constipation, Headaches, Dizziness, Liver Troubles, and a Laxative.
Claims use since Aug. 18, 1917.

Ser. No. 139,293. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y. Filed Nov. 6, 1920.

Insectolatum

Particular description of goods.—Insectifuge.
Claims use since June 15, 1920.

Ser. No. 139,346. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP COHEN, Atlanta, Ga. Filed Nov. 8, 1920.

Diges Goo

Particular description of goods.—Medicinal Preparations for the Treatment of Indigestion.
Claims use since Oct 1, 1919.

Ser. No. 139,347. (CLASS 39. CLOTHING.) COHEN-FEIN COMPANY, Wilkes-Barre, Pa. Filed Nov. 8, 1920.



No claim is made to the words "Shirt" and "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Work-Shirts.
Claims use since September, 1914.

Ser. No. 139,348. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COAL TAR PRODUCTS INC., Chicago, Ill. Filed Nov. 8, 1920.

TARX

Particular description of goods.—Disinfectant, and Particularly a Solidified Soluble Coal-Tar-Derivative Disinfectant.
Claims use since Mar. 1, 1920.

Ser. No. 139,352. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. N. A. FRANKLIN, Houston, Tex. Filed Nov. 8, 1920.



The trade-mark consists of the signature and picture of applicant.
Particular description of goods.—Hair-Tonic, Hair-Grower, Shampoo, Pressing-Oil, and Temple-Grower.
Claims use since the 15th day of June, 1917.

Ser. No. 139,355. (CLASS 39. CLOTHING.) THE J. L. HUDSON CO., Detroit, Mich. Filed Nov. 8, 1920.

Hudson Superfit

Particular description of goods.—Knit Underwear for Women in Vests and Union-Suits.
Claims use since Oct. 1, 1920.

Ser. No. 139,379. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Nov. 8, 1920.

SALISAN

Particular description of goods.—Pharmaceutical Preparations to Be Used as Anesthetics, Hypnotics, Narcotics, Sedatives, Analgesics, Styptics, and Antipyretics.
Claims use since Sept. 8, 1920.

Ser. No. 139,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Nov. 8, 1920.

FILISAN

Particular description of goods.—Certain Pharmaceutical Preparation to Be Used as an Anthelmintic.
Claims use since Sept. 8, 1920.

Ser. No. 139,381. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Nov. 8, 1920.

SURENOL

Particular description of goods.—Pharmaceutical Preparations—Namely, Epinephrin and Epinephrin Substitute.
Claims use since Sept. 8, 1920.

Ser. No. 139,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Nov. 8, 1920.

APORENIN

Particular description of goods.—Pharmaceutical Preparations—Namely, Epinephrin and Epinephrin Substitute.
Claims use since Sept. 8, 1920.

Ser. No. 139,392. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CYCO MEDICINE CO., Chicago, Ill. Filed Nov. 9, 1920.

Cy-co

Particular description of goods.—General Medicinal Tonic.
Claims use since Apr. 10, 1919.

Ser. No. 139,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIBERTY PRODUCTS COMPANY, INC., New York, N. Y. Filed Nov. 9. 1920.

1 2 3

Particular description of goods.—Remedy for Headache, Colds, and Rheumatism.
Claims use since about Oct. 5, 1920.

Ser. No. 139,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIBERTY PRODUCTS COMPANY, INC., New York, N. Y. Filed Nov. 9, 1920.

ONE TWO THREE

Particular description of goods.—Remedy for Headache, Colds, and Rheumatism.
Claims use since about Oct. 5, 1920.

Ser. No. 139,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERARD M. WILDES, New York, N. Y. Filed Nov. 9, 1920.

Filigree

Particular description of goods.—Perfumes.
Claims use since Oct. 25, 1920.

Ser. No. 139,454. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. G. EVANS, Kansas City, Mo. Filed Nov. 10, 1920.

THOLO

Particular description of goods.—Liquid Antiphlogistic Dressing.
Claims use since March, 1915.

Ser. No. 139,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KATHLEEN MARY QUINLAN, New York, N. Y. Filed Nov. 10, 1920.

"MIST or DAWN"

Particular description of goods.—Beauty-Cream.
Claims use since November, 1919.

Ser. No. 139,465. (CLASS 37. PAPER AND STATIONERY.) MOTOR-LOG, Bethlehem, Pa. Filed Nov. 10, 1920.

MOTOR LOG

Particular description of goods.—Partially-Printed Booklets Particularly Adapted to be Used by a Motorist and Containing Instructions which Enable Him to Obtain the Real Facts About the Performance of His Car.
Claims use since Nov. 3, 1920.

Ser. No. 139,480. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY A. SOARS, Cleveland, Ohio. Filed Nov. 10, 1920.

Broncha

Particular description of goods.—Preparation for the Treatment of Diseases of the Throat and Lungs.
Claims use since November, 1888.

Ser. No. 139,522. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX GOLDSTEIN, Los Angeles, Calif. Filed Nov. 11, 1920.

Max's Stacomb

Particular description of goods.—Pomades for the Hair.
Claims use since the 29th day of October, 1920.

Ser. No. 139,525. (CLASS 27. HOROLOGICAL INSTRUMENTS.) B. GUTTER & SONS, New York, N. Y. Filed Nov. 11, 1920.

NOMON

Particular description of goods.—Watches, Watchcases, and Watch-Movements.
Claims use since Apr. 1, 1920.

Ser. No. 139,531. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SIGSBIN GUTTER, New York, N. Y. Filed Nov. 11, 1920.

La Helene

Particular description of goods.—Pearls.
Claims use since July 1, 1920.

Ser. No. 139,539. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB G. LIPMAN, New Brunswick, N. J. Filed Nov. 11, 1920.

BAC-SUL

Particular description of goods.—Fungicides, Insecticides, and Weed-Destroyers.
Claims use since Apr. 1, 1920.

Ser. No. 139,540. (CLASS 37. PAPER AND STATIONERY.) HENRY B. LOUNSBURY, New York, N. Y. Filed Nov. 11, 1920.

CENTAPEX

Particular description of goods.—Pads or Packages of Paper for Writing, Printing, Typewriting, and Wrapping, White and Colored Tissue and Toilet Papers.
Claims use since July 1, 1890.

Ser. No. 139,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Nov. 12, 1920.

SONATO

Particular description of goods.—Wheat-Flour.
Claims use since May 20, 1920.

Ser. No. 139,584. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH LEGGIERE, Mount Vernon, N. Y. Filed Nov. 12, 1920.

MAJESTIC



Particular description of goods.—Hair-Tonic.
Claims use since about the 6th day of September, 1915.

Ser. No. 139,590. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920.

Gem

Particular description of goods.—Hair-Nets.
Claims use since Nov. 1, 1918.

Ser. No. 139,591. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920.

Jewel

Particular description of goods.—Hair-Nets.
Claims use since Nov. 1, 1918.

Ser. No. 139,598. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. SELIGMAN MERCHANDISE CO., New York, N. Y. Filed Nov. 12, 1920.

LUXRITE

Particular description of goods.—Hair-Nets.
Claims use since Nov. 10, 1920.

Ser. No. 139,659. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOAH ADAMS, M. D., Kansas City, Mo. Filed Nov. 15, 1920.

THOLO

Particular description of goods.—Liquid Antiphlogistic.
Claims use since November, 1916.

Ser. No. 139,660. (CLASS 39. CLOTHING.) THE ASSOCIATED CLOTHIERS, Sparta, Ill. Filed Nov. 15, 1920.

SERVICE ASSOCIATED CLOTHIERS

The lining on the star at the top of the shield shown on the mark in the drawing does not indicate color, no claim being made to the use of the words "Service," "Quality First," and "Satisfaction Assured" apart from the mark as shown.
Particular description of goods.—Collars, Underwear of Knitted or Textile Fabric and of One, Two, or Three Piece Garments for Men and Boys; Dress, Negligée, and Work Shirts; Sweaters, Neckwear, Gloves of Leather or Fabric, Hats for Men and Boys, Caps for Men and Boys, Hosiery, Shoes of Leather or Rubber, Overalls, Suits, and Overcoats.
Claims use since about Aug. 21, 1918.

Ser. No. 139,858. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) KERVAN COMPANY, New York, N. Y. Filed Nov. 19, 1920.

FOREST

Particular description of goods.—Florist Dispensing Supplies.
Claims use since July 1, 1920.

Ser. No. 139,888. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FANNIE E. HUGHEY, Chicago, Ill. Filed Nov. 20, 1920.

THE AMERICAN GRILL GARDEN

Particular description of goods.—Musical Instruction Sets, Comprising an Assembly of Cards Marked to Represent a Keyboard, Variously-Colored Strips Corresponding to Different Musical Scales, Colored Figures, Musically-Marked Sheets, and Colored Representations, All Used Collectively as a Set in Instruction in Piano-Playing and Designed to be Employed in the Instruction of Children.
Claims use since July, 1918.

Ser. No. 139,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SPOON AND STRAW, INC., Chicago, Ill. Filed Nov. 20, 1920.



Particular description of goods.—Candies, Ice-Cream, Lunches, and Cakes.
Claims use since Aug. 1, 1919.

Ser. No. 140,006. (CLASS 39. CLOTHING.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Nov. 23, 1920.

CELEBRATE

Particular description of goods.—Hosiery.
Claims use since Apr. 15, 1920.

Ser. No. 140,081. (CLASS 37. PAPER AND STATIONERY.) JAMES N. TINSLEY, St. Joseph, Mo. Filed Nov. 23, 1920.

3—IN—1

Particular description of goods.—School-Tablets.
Claims use since June, 1918.

Ser. No. 140,099. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM W. EDELSTONE, Cambridge, Mass. Filed Nov. 24, 1920.

WEDCO

Particular description of goods.—Tire Fabric—Namely, Fabric for Use as Foundations for Auto-Tires; Canvas; Cotton, Duck, Drills, Sheeting, Twills, and Osnaburgs in Strip, Web, and Sheet Form; Cotton Piece Goods, and Belting-Duck for Making Canvas Bags for Receptacles.
Claims use since 1915.

Ser. No. 140,342. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) T. J. MITCHELL & CO. INC., New York, N. Y. Filed Nov. 27, 1920.



Particular description of goods.—Broad Silks in the Piece.
Claims use since Aug. 30, 1920.

Ser. No. 140,352. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 27, 1920.

GOLIATH

Particular description of goods.—Ginghams in the Piece.
Claims use since Oct. 5, 1920.

Ser. No. 140,388. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Nov. 29, 1920.

Evergold

Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.
Claims use since the 12th day of November, 1920.

Ser. No. 140,389. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Nov. 29, 1920.

Silverlast

Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.
Claims use since the 12th day of November, 1920.

Ser. No. 140,479. (CLASS 11. INKS AND INKING MATERIALS.) THE AULT & WIBORG COMPANY OF N. Y., New York, N. Y. Filed Dec. 1, 1920.

MARVEL

Particular description of goods.—Steel-Die Printing-Inks of Various Tints and Colors.
Claims use since July 1, 1920.

Ser. No. 140,539. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANKLIN MACVEAGH & COMPANY, Chicago, Ill. Filed Dec. 2, 1920.

PEARLS OF WHEAT

Consists in the words "Pearls of Wheat."
Particular description of goods.—Wheat Breakfast Food and Food Ingredient.
Claims use since August, 1905.

Ser. No. 140,543. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) REICHMAN & FAUST, New York, N. Y. Filed Dec. 2, 1920.

DAINTY DOLLY

Particular description of goods.—Hair-Nets.
Claims use since November, 1920.

Ser. No. 140,568. (CLASS 39. CLOTHING.) THE LIBERTY MANUFACTURING COMPANY, Baltimore, Md. Filed Dec. 3, 1920.



Particular description of goods.—Ladies' and Children's Night-Gowns, Pajamas, and Sleeping-Garments, Ladies' Skirts, and Men's and Boys' Night-Robes and Pajamas.
Claims use since the year 1902.

Ser. No. 140,601½. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SAMUEL KAHN, New York, N. Y. Filed Dec. 4, 1920.

ASKIRI

Particular description of goods.—Fur-Skins.
Claims use since Sept. 15, 1920.

Ser. No. 140,631. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) R. WALLACE & SONS MFG. CO., Wallingford, Conn. Filed Dec. 6, 1920.

Hostess

Particular description of goods.—Silver-Plated Knives, Silver-Plated Forks, and Silver-Plated Spoons.
Claims use since Dec. 1, 1920.

Ser. No. 140,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE GRAIN & MILLING CO., Los Angeles, Calif. Filed Dec. 7, 1920.

MARCA ROJA

Particular description of goods.—Pancake-Flour; Nixtamel, a Cornmeal; Graham Flour, Cornmeal, Broken Wheat, Whole-Wheat Flour; Edible Bran, Health-Bran; Wheat Fragments, Rye-Flour, Wheat-Flour, Confectionery-Flour, Farina Cream of Wheat, Rolled Oats, Steel-Cut Oats, and Refined Vegetable Oil for Cooking and Salads.
Claims use since the year 1914.

Ser. No. 140,814. (CLASS 43. THREAD AND YARN.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Dec. 8, 1920.

GLOSSILLA

Particular description of goods.—Yarn, Thread, Floss, Embroidery-Rope Useful for Art-Needlework, Embroidery, Knitting, Crocheting, Tatting, Weaving, Braiding, Sewing, and Lace-Making.
Claims use since about June, 1908.

Ser. No. 140,815. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Dec. 8, 1920.

GLOSSILLA

Particular description of goods.—Ribbon in the Piece, Towels and Toweling, Tapestry, and Piece Goods of Cotton, Linen, Silk, Artificial Silk, Wool, or of Combinations Thereof.
Claims use since about June, 1908.

Ser. No. 140,827. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PIERRE J. H. BERNARD, Montreal, Quebec, Canada. Filed Dec. 9, 1920.

ELECTRO JEANNE D'ARC

Particular description of goods.—Electrical Hot-Water and Steam Heaters and Parts Therefor.
Claims use since about Oct. 27, 1920.

Ser. No. 140,904. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WECHSLER BARBER SILK CO. INC., New York, N. Y. Filed Dec. 10, 1920.

VAMPIRE

Particular description of goods.—Silk and Silk-Mixture Fabrics in the Piece.
Claims use since about Dec. 1, 1920.

Ser. No. 140,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Dec. 11, 1920.

Lusina

Particular description of goods.—Woolen Piece-Goods.
Claims use since Nov. 15, 1920.

Ser. No. 140,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHANE BROS. & WILSON CO., Philadelphia, Pa. Filed Dec. 11, 1920.

HAPPY-HOG

No claim being made to the word "Hog" apart from the mark as shown.
Particular description of goods.—Hog Feed.
Claims use since May 15, 1920.

Ser. No. 141,013. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 13, 1920.

Calmont

The lining of the drawing is for the purpose of shading.
Particular description of goods.—Cotton Piece Goods.
Claims use since 1904.

Ser. No. 141,014. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 13, 1920.

Lerma

Particular description of goods.—Cotton Piece-Goods.
Claims use since 1910.

Ser. No. 141,015. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 13, 1920.

FLORELLE

Particular description of goods.—Cotton Piece-Goods.
Claims use since March, 1905.

Ser. No. 141,067. (CLASS 39. CLOTHING.) I. GROSSMAN & SON, New York, N. Y. Filed Dec. 14, 1920.

"MISSY"

Consisting of the word "Missy."
Particular description of goods.—Ladies' and Misses' and Juniors' One and Two Piece Suits and Outer Coats, Dresses, Wraps, and Skirts.
Claims use since Nov. 22, 1920.

Ser. No. 141,079. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Dec. 14, 1920.

ARCH GUIDE

Particular description of goods.—Men's, Women's and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.
Claims use since Jan. 30, 1918.

Ser. No. 141,137. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARL SCHOEN SILK CORPORATION, New York, N. Y. Filed Dec. 15, 1920.

PENIKEES

Particular description of goods.—Textile Fabrics—Namely, Silk, Silk and Wool, and Silk and Cotton Fabrics.
Claims use since June 1, 1920.

Ser. No. 141,161. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILY C. DIMICK, Fort Wayne, Ind. Filed Dec. 16, 1920.



The picture in the drawing being fanciful.
Particular description of goods.—Preparation for Skin Eruptions, Burns, Poison, Hives, and Scalds.
Claims use since June 1, 1918.

Ser. No. 141,164. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WILLIAM EDWARDS COMPANY, Cleveland, Ohio. Filed Dec. 16, 1920.



Particular description of goods.—Olives, Tomato Catsup, Salad-Dressing, Mayonnaise Dressing, Chilli Sauce, Prepared Mustard, Peanut-Butter, Apple-Butter, Maple-Syrup, Honey, Fruit Preserves, Grape, Currant, Quince, Apple and Crab-Apple Jelly.
Claims use since Oct. 1, 1920.

Ser. No. 141,186. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHOENIX PACKING COMPANY, Buras, La. Filed Dec. 16, 1920.

COTTON BALE

Particular description of goods.—Canned Shrimp.
Claims use since February, 1889.

Ser. No. 141,261. (CLASS 39. CLOTHING.) THE FLORSHEIM SHOE COMPANY, Chicago, Ill. Filed Dec. 18, 1920.



Particular description of goods.—Boots and Shoes Made of Leather.
Claims use since 1913.

Ser. No. 141,280. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STARTIT MANUFACTURING COMPANY, Indianapolis, Ind. Filed Dec. 18, 1920.

STARTIT

Particular description of goods.—Electrical Fuel-Heaters for Explosive-Engines.
Claims use since Apr. 21, 1920.

Ser. No. 141,415. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Dec. 22, 1920.

PHEASANT

Consisting of the word "Pheasant."
Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Dec. 8, 1920.

Ser. No. 141,459. (CLASS 39. CLOTHING.) JEFFERSON COLLAR CO., New York, N. Y. Filed Dec. 23, 1920.

TRADE JCCo MARK
JEFFERSON BRAND
TROY'S BEST PRODUCT

No claim is made to the exclusive use of the words "Trade Mark, Brand, Troy's Best Product" except as these are used in connection with the other features of the mark shown in the drawing.
Particular description of goods.—Collars and Neckbands.
Claims use since about Dec. 1, 1919.

Ser. No. 141,489. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE FERN-O-GRAND COMPANY, Cincinnati, Ohio. Filed Dec. 24, 1920.



No claim is made for the words "Baby Grand Design Phonograph" or the words "Fern-O-Grand Co., Cin., O." except in association with the other features of the mark shown in the drawing. No claim is made to the representation of a phopograph or talking-machine apart from the mark shown in the drawing.
Particular description of goods.—Talking-Machines and Phonographs.
Claims use since Oct. 15, 1920.

Ser. No. 141,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED WING COMPANY, INC., Fredonia, N. Y. Filed Dec. 24, 1920.

WILLOW BROOK

Particular description of goods.—Apple-Currant Jelly, Apple-Strawberry Jelly, Apple-Blackberry Jelly, Apple-Raspberry Jelly, Apple-Grape Jelly, Apple-Strawberry Jam, Apple-Raspberry Jam, Apple-Plum Jam, Apple-Cherry Jam, Apple-Plum Jelly, Apple-Peach Jam, Apple-Grape Jam, and Apple-Blackberry Jam.
Claims use since Oct. 10, 1920.

Ser. No. 141,526. (CLASS 37. PAPER AND STATIONERY.) KALAMAZOO VEGETABLE PARCHMENT CO., Kalamazoo, Mich. Filed Dec. 27, 1920.

K V P

Particular description of goods.—Parchment-Papers, Waxed Papers, Wrapping-Paper, and Bond Writing-Papers.
Claims use since 1911.

Ser. No. 141,599. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) M. S. CO., Attleboro, Mass. Filed Dec. 28, 1920.

M S Co.

Particular description of goods.—Jewelers' Findings—Namely, Chains, Swivels, Spring-Rings, Bars, Beads, and Ear-Loops.
Claims use since Jan. 1, 1915.

Ser. No. 141,606. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROGERS, LUNT & BOWLEN COMPANY, Greenfield, Mass. Filed Dec. 28, 1920.

Treasure

The word "Treasure."

Particular description of goods.—Knives, Forks, Spoons, Ladles, Tongs, Tea-Balls, Tea-Strainers, Sifters, Napkin-Rings, Napkin-Markers, Napkin-Bands, Salt and Pepper Shakers, Children's Cups, Bowls, Pitchers, Dishes, Pots, Platters, Servers, Mugs, Coasters, Candlesticks, Vases, Bottle-Openers, Corkscrews, Muffineers, Bells, Bottles Baby-Rattles, Rattle-Whistles, Baby-Pins, Buckles, Brooches, Trays, Boxes, Buffers, Jars, Brushes, Combs, Mirrors, Nail-Files, Scissors, Shoe-Horns, and Button-Hooks, all Made Partly or Wholly of Silver or Plated or Ornamented Therewith.

Claims use since Dec. 2, 1920.

Ser. No. 141,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS-BODY COMPANY, San Francisco, Calif. Filed Dec. 30, 1920.



Particular description of goods.—Canned Fruits and Canned Vegetables.

Claims use since Mar. 15, 1920.

Ser. No. 141,769. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARLY-STRATTON CO., Memphis, Tenn. Filed Jan. 3, 1921.

RIVER QUEEN

Particular description of goods.—Coffee.

Claims use since July 5, 1920.

Ser. No. 141,831. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Jan. 4, 1921.

BARONETTE

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since December, 1919.

Ser. No. 141,832. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Jan. 4, 1921.

SAHARA

Particular description of goods.—Broad-Silk Piece Goods.

Claims use since February, 1915.

Ser. No. 141,838. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) INTERNATIONAL SILVER COMPANY, Meriden and Bridgeport, Conn. Filed Jan. 4, 1921.

HOSTESS

Particular description of goods.—Silver-Plated Flat and Hollow Tableware.

Claims use since on or about the 25th day of September, 1920.

Ser. No. 141,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMIL WILLADSEN, The Vale Dew Farm, Hanover township, Morris county, N. J. Filed Jan. 5, 1921.



The background for the word of the trade-mark is blue. The words "Cultured Milk" appearing in the trade-mark are hereby specifically disclaimed.

Particular description of goods.—Canned Cultured Milk.

Claims use since on or about the 15th day of October, 1920.

Ser. No. 141,901. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. A. DREYFUS CO., New York, N. Y. Filed Jan. 6, 1921.

ISLAND CHICLE

The word "Chicle" is disclaimed apart from the other features of the trade-mark shown on the drawing.

Particular description of goods.—Gum Used in the Manufacture of Chewing-Gum.

Claims use since February, 1919.

Ser. No. 141,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ANDREW'S MILL COMPANY, Frankford, Pa. Filed Jan. 8, 1921.

ANDRIA

Particular description of goods.—Woolen Goods in the Piece.

Claims use since June 1, 1920.

Ser. No. 141,964. (CLASS 43. THREAD AND YARN.) THE BLACKSTAFF FLAX SPINNING & WEAVING COMPANY, LIMITED, Belfast, Ireland. Filed Jan. 8, 1921.



Particular description of goods.—Threads of Flax, Hemp, Tow, and Ramie or China-Grass.

Claims use since the 10th of December, 1866.

Ser. No. 142,067. (CLASS 37. PAPER AND STATIONERY.) GILBERT PAPER COMPANY, Menasha, Wis. Filed Jan. 11, 1921.

Balance

Particular description of goods.—Ledger and Writing Paper.

Claims use since Dec. 11, 1920.

Ser. No. 142,070. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE HARTFORD RUBBER WORKS COMPANY, Hartford, Conn. Filed Jan. 11, 1921.

STRONGHEART

The word "Strongheart."

Particular description of goods.—Vehicle-Tires Made of Rubber.

Claims use since January, 1918.

Ser. No. 142,101. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) REVERE RUBBER COMPANY, Providence, R. I. Filed Jan. 11, 1921.

GRANITE

The word "Granite."

Particular description of goods.—Vehicle-Tires Made of Rubber.

Claims use since January, 1918.

Ser. No. 142,284. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) COLUMBIA GRAPHOPHONE MANUFACTURING CO., Bridgeport, Conn. Filed Jan. 15, 1921. Under ten-year proviso.

GRAPHOPHONE

Particular description of goods.—Phonographic Sound Recording and Reproducing Machines, Parts for Such Machines, and Phonographic Sound-Records.

Claims use since about 1887.

Ser. No. 142,300. (CLASS 37. PAPER AND STATIONERY.) FRED AUGUSTUS STEWART, San Jose, Calif. Filed Jan. 15, 1921.

"TORN · MUSIC · CURE"

Particular description of goods.—Transparent Book and Document Mending Tissue.

Claims use since Dec. 23, 1917.

Ser. No. 142,411. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE PRESTO CIGARETTE CASE CORP. OF N. Y. INC., North Attleboro, Mass. Filed Jan. 18, 1921.

STYLO

Consisting of the word "Stylo."

Particular description of goods.—Nickel-Silver, Sterling-Silver, Gold-Filled, and Solid-Gold Cigarette-Cases.

Claims use since Dec. 10, 1920.

Ser. No. 142,566. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE OMO MANUFACTURING CO., Middletown, Conn. Filed Jan. 21, 1921.



Particular description of goods.—Elastic Webbing, Elastic Cord, Elastic Braid, and Dress-Belting.

Claims use on webbing, cord, and braid since Jan. 10, 1921, and on dress-belting since Jan. 14, 1921.

Ser. No. 142,636. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENJAMIN F. MILLER, Philadelphia, Pa. Filed Jan. 22, 1921.



Particular description of goods.—Cookies.

Claims use since Dec. 13, 1920.

Ser. No. 142,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DRUCKER & LINDY, Irvington, N. J. Filed Jan. 24, 1921.

DEE-ENN-ELL

Particular description of goods.—Fresh Eggs.
Claims use since Sept. 1, 1917.

Ser. No. 142,698. (CLASS 43. THREAD AND YARN.) DEXTER YARN COMPANY, Pawtucket, R. I. Filed Jan. 24, 1921.

CAMEO

Said trade-mark consists of the word "Cameo."
Particular description of goods.—Yarns and Threads Made of Cotton, Silk, Jute, Flax, Linen, Wool, and Ramie.
Claims use since Jan. 7, 1921.

Ser. No. 142,849. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARTENS & KETELS MILLING CO., Sioux City, Iowa. Filed Jan. 27, 1921.

MARBRO

Particular description of goods.—Wheat-Flour.
Claims use since Mar. 19, 1908.

Ser. No. 142,862. (CLASS 37. PAPER AND STATIONERY.) SCOTT PAPER COMPANY, Chester, Pa. Filed Jan. 27, 1921.



Particular description of goods.—Paper Towels and Paper Napkins.
Claims use since Nov. 22, 1920.

Ser. No. 142,894. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Jan. 28, 1921.

Mc MINTS

Particular description of goods.—Biscuit.
Claims use since as early as Jan. 17, 1921.

Ser. No. 142,895. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Jan. 28, 1921.

HOBBIES

Particular description of goods.—Biscuit.
Claims use since as early as Jan. 18, 1921.

Ser. No. 142,915. (CLASS 37. PAPER AND STATIONERY.) A. P. W. PAPER CO., Albany, N. Y. Filed Jan. 29, 1921.

Buckeye

Particular description of goods.—Toilet-Paper and Paper Towels.
Claims use since September, 1890.

Ser. No. 142,953. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) BRAENDER RUBBER & TIRE CO., Rutherford, N. J. Filed Jan. 31, 1921.

BULL DOG

Particular description of goods.—Pneumatic Tires and the Inner Tubes and Outer Casings Thereof, Composed of Rubber or Rubber and Fabric.
Claims use since November, 1912.

Ser. No. 142,954. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio. Filed Jan. 31, 1921.

BUCKEYE'S PRIZE



Particular description of goods.—Horse and Mule Feed.
Claims use since Oct. 13, 1919.

Ser. No. 142,961. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROWN MARGARIN COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

FAVORMOR

Particular description of goods.—Oleomargarin.
Claims use since Sept. 2, 1919.

Ser. No. 142,975. (CLASS 37. PAPER AND STATIONERY.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Jan. 31, 1921. Under ten-year proviso.

GOODRICH

Particular description of goods.—Stationers' Bands Made Principally of Rubber.
Claims use since about January, 1888.

Ser. No. 142,976. (CLASS 37. PAPER AND STATIONERY.) THE HOGE MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 31, 1921.

Pal

Particular description of goods.—Propel-Pencils and Leads and Erasers Therefor.
Claims use since Jan. 12, 1921.

Ser. No. 143,012. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) J. E. RHOADS & SONS, Philadelphia, Pa., and Wilmington, Del. Filed Jan. 31, 1921. Under ten-year proviso.

J.E.RHOADS & SONS

Particular description of goods.—Leather Belting.
Claims use since about 1890.

Ser. No. 143,035. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BRONSTON BROS. & CO. INC., New York, N. Y. Filed Feb. 1, 1921.

Beaux-Art

Particular description of goods.—Skins and Hides.
Claims use since Jan. 4, 1921.

Ser. No. 143,064. (CLASS 12. CONSTRUCTION MATERIALS.) SEABOARD REFRACTORIES COMPANY, Valentines, Raritan township, Middlesex county, N. J. Filed Feb. 1, 1921.

ALUMA

Particular description of goods.—Refractory Bricks of Standard and Special Shapes.
Claims use since Aug. 1, 1920.

Ser. No. 143,157. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR COMPANY, Denver, Colo., and Burley, Idaho. Filed Feb. 4, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since Nov. 8, 1920.

Ser. No. 143,164. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. M. ERNST & SON, Arcola and East St. Louis, Ill. Filed Feb. 4, 1921.

LIBERTY

Particular description of goods.—Scratch Feed.
Claims use since January, 1920.

Ser. No. 143,236. (CLASS 37. PAPER AND STATIONERY.) HERMAN ZUCKERMAN, Los Angeles, Calif. Filed Feb. 5, 1921.



Particular description of goods.—Remnant-Tags Used for Tagging Remnants of All Kinds.
Claims use since Dec. 29, 1920.

Ser. No. 143,298. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Feb. 7, 1921.

RACINE COUNTRY ROAD

Particular description of goods.—Rubber or Rubber and Fabric Tires and Tubes for Vehicles.
Claims use since June 1, 1913.

Ser. No. 143,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Filed Feb. 8, 1921.

PREESOL

Particular description of goods.—Metal-Treating Fluid for Preparing Work for Soldering.
Claims use since Jan. 10, 1921.

Ser. No. 143,449. (CLASS 37. PAPER AND STATIONERY.) JOSEPH PARKER & SON COMPANY, New Haven, Conn. Filed Feb. 11, 1921.

Capitol

Particular description of goods.—Blotting-Paper.
Claims use since Sept. 15, 1893.

Ser. No. 143,475. (CLASS 37. PAPER AND STATIONERY.) ATLANTIC PAPER COMPANY, Philadelphia, Pa. Filed Feb. 12, 1921.

ATLA

Particular description of goods.—Paper Generally Used for Printing and Writing and Mailing-Envelops.
Claims use since on or about Jan. 1, 1920.

Ser. No. 143,607. (CLASS 37. PAPER AND STATIONERY.) IDEAL COATED PAPER COMPANY, Brookfield, Mass. Filed Feb. 15, 1921.

COMET

Particular description of goods.—Gummed Paper.
Claims use since Feb. 1, 1921.

Ser. No. 143,865. (CLASS 43. THREAD AND YARN.) MORRIS HIRSCH & SON, Brooklyn, N. Y. Filed Feb. 21, 1921.



Particular description of goods.—Wool and Silk Knitting-Yarns.
Claims use since November, 1918.

Ser. No. 143,895. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRED REES, Meriden, Conn. Filed Feb. 21, 1921.

Little Fairy

Particular description of goods.—Safety-Pins.
Claims use since Dec. 1, 1920.

Ser. No. 143,908. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed Feb. 23, 1921.

PATCHRACK

Particular description of goods.—Art-Needlework Products Comprising a Foundation Fabric, Patches of Fabric, Braid and Yarn, Completed, Partly Completed, or for Completion by the Customer.
Claims use since Feb. 11, 1921.

Ser. No. 144,540. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOWARD MCC. YOST, Washington, D. C. Filed Mar. 9, 1921.

LADDIE-BOY



Particular description of goods.—Toy Animals.
Claims use since Mar. 9, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 12, 1921.

141,065. WOMEN'S MUSLIN AND SILK UNDERWEAR. AARON NEWMARK, INC., New York, N. Y.
Filed May 11, 1920. Serial No. 132,312. PUBLISHED JULY 27, 1920.

141,066. MOUTH-WASH. FRANCIS R. ABRAMS, Inwood, N. Y.
Filed June 18, 1920. Serial No. 133,862. PUBLISHED NOVEMBER 30, 1920.

141,067. WOMEN'S AND MISSES' HATS. AERIAL HAT CO., New York, N. Y.
Filed July 22, 1920. Serial No. 135,257. PUBLISHED NOVEMBER 30, 1920.

141,068. WASHABLE TEXTILE-FABRIC LININGS CUT, SEWN, AND READY TO ATTACH TO WAISTS AND DRESSES. JOSEPH ALBERT, New York, N. Y.
Filed April 10, 1920. Serial No. 130,942. PUBLISHED DECEMBER 7, 1920.

141,069. TUNGSTEN, NITROGEN, AND CARBON LAMPS. CHARLES ORIE ALEXANDER, Philadelphia, Pa.
Filed July 26, 1920. Serial No. 135,399. PUBLISHED DECEMBER 7, 1920.

141,070. STITCHED CANVAS BELTING. W. D. ALLEN MANUFACTURING COMPANY, Chicago, Ill.
Filed February 4, 1920. Serial No. 127,954. PUBLISHED NOVEMBER 30, 1920.

141,071. PRINTED BOOKS, MAGAZINES, CIRCULARS. ALLIED LABOR PRESS ASSOCIATION, Boston, Mass.
Filed August 3, 1920. Serial No. 135,743. PUBLISHED NOVEMBER 30, 1920.

141,072. DRESS, NEGLIGÉE, AND WORK SHIRTS, PAJAMAS, COLLARS AND CUFFS, MEN'S FLAT UNDERWEAR. ALPERIN STRAUSS & CO., New York, N. Y.
Filed May 24, 1920. Serial No. 132,836. PUBLISHED JULY 20, 1920.

141,073. QUARTERLY MAGAZINE AND A WEEKLY PAPER. AMERICAN ASSOCIATION OF NURSERYMEN, Princeton, N. J.
Filed August 13, 1920. Serial No. 136,060. PUBLISHED NOVEMBER 30, 1920.

141,074. SUGAR-CANE KNIVES. AMERICAN FACTORS, LIMITED, Honolulu, Territory of Hawaii.
Filed September 10, 1920. Serial No. 137,024. PUBLISHED NOVEMBER 30, 1920.

141,075. LIQUID PAINTS, PASTE PAINTS, POWDERED PAINTS, PAINTS FOR CEMENT, WATERPROOF PAINTS, AND PASTE-PAINT COLORS. THE ARLINGTON MANUFACTURING COMPANY, Canton, Ohio.
Filed June 25, 1917. Serial No. 104,661. PUBLISHED NOVEMBER 30, 1920.

141,076. CREEPERS, ROMPERS, CHILDREN'S CAPS, CHILDREN'S BATHING-SUITS, AND CHILDREN'S DRESSES. ARCUNI & EICHWALD, New York, N. Y.
Filed July 12, 1920. Serial No. 134,798. PUBLISHED NOVEMBER 30, 1920.

141,077. CERTAIN MACHINERY AND TOOLS. W. E. AUSTIN MACHINERY CO., Atlanta, Ga.
Filed July 8, 1920. Serial No. 134,688. PUBLISHED NOVEMBER 30, 1920.

141,078. PHONOGRAPHIC NEEDLES. W. H. BAGSHAW CO., Lowell, Mass.
Filed October 6, 1920. Serial No. 137,996. PUBLISHED NOVEMBER 23, 1920.

141,079. OLEOMARGARIN. THE BALTIMORE BUTTERINE CO., Baltimore, Md.
Filed September 20, 1920. Serial No. 137,357. PUBLISHED NOVEMBER 30, 1920.

141,080. SHOE AND LINEN THREAD. BARBOUR FLAX SPINNING COMPANY, Paterson, N. J.
Filed October 28, 1920. Serial No. 138,893. PUBLISHED NOVEMBER 30, 1920.

141,081. LINEN THREAD. BARBOUR FLAX SPINNING COMPANY, Paterson, N. J.
Filed October 28, 1920. Serial No. 138,894. PUBLISHED NOVEMBER 30, 1920.

141,082. LINEN THREAD. BARBOUR FLAX SPINNING COMPANY, Paterson, N. J.
Filed October 28, 1920. Serial No. 138,895. PUBLISHED NOVEMBER 30, 1920.

141,083. CLOCK AND WATCH DIALS. THEODORE BARGMAN, Detroit, Mich.
Filed December 9, 1919. Serial No. 125,740. PUBLISHED DECEMBER 7, 1920.

141,084. AUTOMOBILE-RADIATORS AND STRUCTURAL RADIATOR PARTS. THE BINKLEY COMPANY, Oklahoma, Okla.
Filed July 29, 1920. Serial No. 135,548. PUBLISHED DECEMBER 7, 1920.

141,085. CERTAIN NAMED PAPER AND PAPER TABLETS, ENVELOPS, AND BLANK BOOKS. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed June 3, 1919. Serial No. 119,148. PUBLISHED DECEMBER 7, 1920.

141,086. CERTAIN-NAMED PAPER AND PAPER TABLETS, ENVELOPS, AND BLANK BOOKS. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed June 3, 1919. Serial No. 119,149. PUBLISHED DECEMBER 7, 1920.

141,087. CERTAIN NAMED PAPER AND PAPER TABLETS, ENVELOPS, AND BLANK BOOKS. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed June 3, 1919. Serial No. 119,150. PUBLISHED DECEMBER 7, 1920.

141,088. CERTAIN NAMED TOILET PREPARATIONS. THE BOYD-HAYNES CORP., Detroit, Mich.
Filed June 18, 1920. Serial No. 133,868. PUBLISHED NOVEMBER 30, 1920.

141,089. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA CO-OPERATIVE CANNERIES, San Jose, Calif.
Filed April 29, 1920. Serial No. 131,778. PUBLISHED DECEMBER 7, 1920.

141,090. COLIC REMEDY AND DISTEMPER REMEDY. ORVILLE D. CAMPBELL, Warren, Ark.
Filed January 22, 1920. Serial No. 127,467. PUBLISHED JANUARY 4, 1921.

141,091. MONTHLY MAGAZINE. CANADIAN CLUB OF NEW YORK, New York, N. Y.
Filed November 5, 1920. Serial No. 139,195. PUBLISHED JANUARY 11, 1921.

141,092. ALLOY STEELS IN BARS, BILLETS, AND SHAPES. THE CARPENTER STEEL COMPANY, Reading, Pa.
Filed July 6, 1920. Serial No. 134,578. PUBLISHED NOVEMBER 30, 1920.

141,093. SPARK-PLUGS AND PARTS THEREOF. CHAMPION IGNITION COMPANY, Flint, Mich.
Filed August 22, 1919. Serial No. 121,888. PUBLISHED DECEMBER 7, 1920.

141,094. LUBRICATING-OIL. CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill.
Filed July 18, 1918. Serial No. 112,200. PUBLISHED NOVEMBER 18, 1919.

141,095. SO-CALLED PERIODICAL PUBLICATIONS WHICH ARE NOW PUBLISHED MONTHLY. THE CLEVELAND TRACTOR COMPANY, Euclid, Ohio.
Filed September 21, 1920. Serial No. 137,405. PUBLISHED NOVEMBER 30, 1920.

141,096. GINGER-ALE. THE CITY ICE DELIVERY COMPANY, Cleveland, Ohio.
Filed October 5, 1916. Serial No. 98,430. PUBLISHED SEPTEMBER 16, 1919.

141,097. [WITHDRAWN.]

141,098. MEDICINE USED AS A LAXATIVE. WILLIAM B. CLEVES, Washington, D. C.
Filed June 16, 1920. Serial No. 133,761. PUBLISHED NOVEMBER 30, 1920.

141,099. CERTAIN NAMED ARTICLES OF JEWELRY. COHN & ROSENBERGER, INC., New York, N. Y.
Filed March 1, 1920. Serial No. 129,049. PUBLISHED DECEMBER 7, 1920.

141,100. BOYS' WASH-SUITS, BOYS' AND GIRLS' PLAY-SUITS, CHILDREN'S DRESSES. COOPER COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed July 1, 1919. Serial No. 120,159. PUBLISHED OCTOBER 7, 1919.

141,101. SHAVING-CREAM IN THE FORM OF A SOAP PASTE, HARD-WATER SOAP. CO-OPERATIVE DRUG COMPANY, INC., Philadelphia, Pa.
Filed September 18, 1920. Serial No. 137,311. PUBLISHED DECEMBER 21, 1920.

141,102. OLEOMARGARIN AND LARD. CORKRAN, HILL AND COMPANY, INC., Baltimore, Md.
Filed December 15, 1919. Serial No. 126,006. PUBLISHED MARCH 9, 1920.

141,103. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. R. E. COTTER COMPANY, San Francisco, Calif.
Filed July 31, 1920. Serial No. 135,636. PUBLISHED DECEMBER 7, 1920.

141,104. PHONOGRAPHS AND PHONOGRAPH-RECORDS. CRESCENT TALKING MACHINE CO., New York, N. Y.
Filed August 15, 1919. Serial No. 121,690. PUBLISHED DECEMBER 7, 1920.

141,105. AUTOMOBILE-BRAKE LINING. CUMINGS BROTHERS, Flint, Mich.
Filed April 27, 1920. Serial No. 131,697. PUBLISHED DECEMBER 7, 1920.

141,106. ANTILEAK COMPOUND. CUMINGS BROTHERS, Flint, Mich.
Filed April 7, 1920. Serial No. 130,754. PUBLISHED DECEMBER 7, 1920.

141,107. MALTED NON-ALCOHOLIC BEVERAGES. DENNOS FOOD COMPANY, Seattle, Wash., and Chicago, Ill.
Filed August 21, 1916. Serial No. 97,505. PUBLISHED DECEMBER 7, 1920.

141,108. OVERALLS. E. R. DEPUTY COMPANY, INC., Lincoln, Nebr.
Filed November 13, 1918. Serial No. 114,152. PUBLISHED JULY 20, 1920.

141,109. PHARMACEUTICAL COMPOUND HAVING ANTISEPTIC AND GERMICIDAL PROPERTIES. DERMATOLOGICAL RESEARCH LABORATORIES, Philadelphia, Pa.
Filed June 16, 1920. Serial No. 133,772. PUBLISHED NOVEMBER 30, 1920.

141,110. YARNS AND THREAD MADE OF COTTON, SILK, JUTE, FLAX, LINEN, WOOL, AND RAMIE. DEXTER YARN COMPANY, Pawtucket, R. I.
Filed October 18, 1920. Serial No. 138,429. PUBLISHED NOVEMBER 30, 1920.

141,111. YARNS AND THREADS MADE OF COTTON, SILK, JUTE, FLAX, LINEN, WOOL, AND RAMIE. DEXTER YARN COMPANY, Pawtucket, R. I.
Filed October 18, 1920. Serial No. 138,430. PUBLISHED NOVEMBER 30, 1920.

141,112. YARNS AND THREADS MADE OF COTTON, SILK, JUTE, FLAX, LINEN, WOOL, AND RAMIE. DEXTER YARN COMPANY, Pawtucket, R. I.
Filed October 18, 1920. Serial No. 138,431. PUBLISHED NOVEMBER 30, 1920.

141,113. PREPARATION USED IN THE TREATMENT OF EXCESSIVE PERSPIRATION OF THE FEET. WILLIS M. DAGEN, Atlanta, N. Y.
Filed June 12, 1920. Serial No. 133,612. PUBLISHED NOVEMBER 30, 1920.

141,114. BEVERAGES CONSISTING OF CERTAIN FRUIT AND HERBAL JUICES. DRUGGISTS SUNDRIES COMPANY, LIMITED, Vancouver, British Columbia, Canada, assignor to Lash's Bitters Company, San Francisco, Calif., a Corporation of California.
Filed March 19, 1919. Serial No. 116,704. PUBLISHED DECEMBER 30, 1919.

141,115. PAPER FACIAL CLOTH AND PAPER TOWELING. GRACE M. DUNSMORE, New York, N. Y.
Filed July 22, 1920. Serial No. 135,272. PUBLISHED DECEMBER 7, 1920.

141,116. MACHINES FOR TRANSPORTING, RAISING, AND LOWERING BOXES, BARRELS, &C. ECONOMY ENGINEERING COMPANY, Chicago, Ill.
Filed August 13, 1919. Serial No. 121,620. PUBLISHED OCTOBER 19, 1920.

141,117. SOFT SOAP. JACOB F. EDINGTON, Los Angeles, Calif.
Filed September 30, 1920. Serial No. 137,768. PUBLISHED NOVEMBER 30, 1920.

141,118. FOUNTAIN-PENS. EDISON-CROMER PEN CO., Birmingham, Ala.
Filed May 14, 1920. Serial No. 132,430. PUBLISHED DECEMBER 7, 1920.

141,119. CERTAIN ARTICLES OF CLOTHING. FAVORITE KNITTING COMPANY, Milwaukee, Wis.
Filed January 19, 1920. Serial No. 127,284. PUBLISHED DECEMBER 7, 1920.

141,120. PURIFIED COLLOIDAL CLAY. WILLIAM FELDENHEIMER, London, England.
Filed July 8, 1920. Serial No. 134,706. PUBLISHED NOVEMBER 30, 1920.

141,121. SOAP FOR FAMILY USE. FITZPATRICK BROS., Chicago, Ill.
Filed December 30, 1918. Serial No. 114,881. PUBLISHED NOVEMBER 30, 1920.

141,122. SOAPS. LOUIS FUNDLER, New York, N. Y.
Filed October 18, 1920. Serial No. 138,435. PUBLISHED NOVEMBER 30, 1920.

141,123. WATCHES. RUEFF FRÈRES, La Chaux-de-Fonds, Switzerland.
Filed February 21, 1920. Serial No. 129,035. PUBLISHED NOVEMBER 23, 1920.

141,124. INDEX-CARDS. HENRY C. GAUSS, Washington, D. C.
Filed November 14, 1919. Serial No. 124,897. PUBLISHED DECEMBER 7, 1920.

141,125. CONCRETE-HARDENER AND CEMENT-HARDENER. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed August 3, 1920. Serial No. 135,749. PUBLISHED DECEMBER 7, 1920.

141,126. MOTOR-DRIVEN VEHICLES—NAMELY, MOTOR-CARS, AUTOMOBILES, MOTOR-TRUCKS, MOTOR-LORRIES. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed July 22, 1920. Serial No. 135,276. PUBLISHED DECEMBER 7, 1920.

141,127. CERTAIN NAMED BLANK FORMS. THE A. S. GILMAN PRINTING COMPANY, Cleveland, Ohio.
Filed September 7, 1920. Serial No. 136,887. PUBLISHED NOVEMBER 2, 1920.

141,128. CEREAL MALT BEVERAGES. THE GOTTLIEB BAUERNSCHMIDT STRAUS BREWING COMPANY, Baltimore, Md.
Filed December 26, 1919. Serial No. 126,466. PUBLISHED DECEMBER 7, 1920.

141,129. AUTOMOBILES. THE GRAMM-BERNSTEIN MOTOR TRUCK CO., Lima, Ohio.
Filed November 17, 1919. Serial No. 124,984. PUBLISHED FEBRUARY 1, 1921.

141,130. CAKES. GRENNAN CAKE CORPORATION, Chicago, Ill.; Cleveland, Ohio; Detroit, Mich., and St. Paul and Minneapolis, Minn.
Filed September 18, 1920. Serial No. 137,320. PUBLISHED NOVEMBER 30, 1920.

141,131. CERTAIN ARTICLES OF CLOTHING. ALFRED STEPHEN WILLIAM GRUNDY, San Francisco, Calif.
Filed October 16, 1919. Serial No. 123,848. PUBLISHED DECEMBER 7, 1920.

141,132. DRIED FRUITS. GUGGENHIME & COMPANY, San Francisco, Calif.
Filed July 28, 1920. Serial No. 135,469. PUBLISHED DECEMBER 7, 1920.

141,133. OPHTHALMIC LENSES. F. A. HARDY & COMPANY, Chicago, Ill.
Filed May 10, 1919. Serial No. 118,349. PUBLISHED DECEMBER 2, 1919.

141,134. HARD CANDIES. HARDIE BROS. CO. INC., Pittsburgh, Pa.
Filed February 3, 1920. Serial No. 127,912. PUBLISHED DECEMBER 7, 1920.

141,135. BOOKS AND PAMPHLETS PUBLISHED FROM TIME TO TIME CONTAINING USEFUL AND GENERAL INFORMATION. EMERSON P. HARRIS, Montclair, N. J.
Filed November 8, 1919. Serial No. 124,684. PUBLISHED NOVEMBER 30, 1920.

141,136. PRESERVED FISH. GÁNDARA Y HAZ, Vigo, Spain.
Filed February 27, 1920. Serial No. 128,964. PUBLISHED DECEMBER 7, 1920.

141,137. DENTAL POWDERS, MASSAGE-CREAMS, DENTAL CREAMS, AND PERFUMES. GOSSELIN TRADING CORPORATION, (now by change of name E. L. Quarles Corporation,) New York, N. Y.
Filed December 29, 1919. Serial No. 126,576. PUBLISHED NOVEMBER 30, 1920.

141,138. PERFUMERY, HAIR-TONICS, HAIR-LOTIONS, HAIR RESTORERS AND WASHES, HAIR-DRESSING, AND SHAMPOOS. BERNARD PATRICK HEALY, Sea Park, Skerries, Ireland.
Filed February 10, 1920. Serial No. 128,209. PUBLISHED NOVEMBER 23, 1920.

141,139. AUTOMOBILE AND FURNITURE POLISH. HERBERT HILTON, New Bedford, Mass.
Filed June 5, 1920. Serial No. 133,314. PUBLISHED DECEMBER 7, 1920.

141,140. COTTON PIECE GOODS. HINCK & MULLER, New York, N. Y.
Filed May 25, 1920. Serial No. 132,925. PUBLISHED DECEMBER 14, 1920.

141,141. PURE-SILK PIECE GOODS. WILLIAM HOLLINS & CO. LIMITED, Mansfield and London, England.
Filed October 27, 1919. Serial No. 124,215. PUBLISHED DECEMBER 7, 1920.

141,142. COFFEE AND TEA POTS. JOHN A. HOWARD, New Brighton, N. Y.
Filed July 21, 1920. Serial No. 135,242. PUBLISHED NOVEMBER 30, 1920.

141,143. RAZOR-STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed October 4, 1920. Serial No. 137,884. PUBLISHED NOVEMBER 30, 1920.

141,144. RAZOR-STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed October 4, 1920. Serial No. 137,885. PUBLISHED NOVEMBER 30, 1920.

141,145. CERTAIN NAMED BELTING, HOSE, AND MACHINERY PACKING. IMPERIAL BELTING COMPANY, Chicago, Ill.
Filed June 24, 1920. Serial No. 134,125. PUBLISHED DECEMBER 7, 1920.

141,146. SULFITE BOND-PAPER USED FOR WRITING AND PRINTING PURPOSES. INTERNATIONAL PAPER COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,475. PUBLISHED DECEMBER 7, 1920.

141,147. LADIES', MISSES', AND CHILDREN'S DRESSES. GABRIELLE E. JACKSON, New York, N. Y.
Filed July 1, 1920. Serial No. 134,474. PUBLISHED NOVEMBER 30, 1920.

141,148. CERTAIN ARTICLES OF CLOTHING. JORDAN MARSH COMPANY, Boston, Mass.
Filed February 16, 1920. Serial No. 128,443. PUBLISHED NOVEMBER 23, 1920.

141,149. CANNED FISH. L. N. JACKSON & COMPANY, INC., San Francisco, Calif.
Filed August 5, 1920. Serial No. 135,813. PUBLISHED NOVEMBER 30, 1920.

141,150. LEATHER GLOVES FOR MEN, WOMEN, AND CHILDREN. JORDAN MARSH COMPANY, Boston, Mass.
Filed February 16, 1920. Serial No. 128,444. PUBLISHED NOVEMBER 23, 1920.

141,151. TELEPHONES AND PARTS THEREOF. KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill.
Filed May 23, 1918. Serial No. 111,158. PUBLISHED NOVEMBER 30, 1920.

141,152. FURNITURE-POLISH. ALBERT E. KERR, San Francisco, Calif.
Filed June 20, 1918. Serial No. 111,701. PUBLISHED SEPTEMBER 10, 1918.

141,153. CERTAIN DESCRIBED PAINTS. THE KLEIN MANUFACTURING COMPANY, Cleveland, Ohio.
Filed February 10, 1920. Serial No. 128,211. PUBLISHED DECEMBER 7, 1920.

141,154. PNEUMATIC-TIRE PATCH. WILLIAM C. KNOTT, Shreveport, La.
Filed September 12, 1919. Serial No. 122,600. PUBLISHED APRIL 13, 1920.

141,155. SODA-FOUNTAINS AND PARTS THEREOF. KNIGHT LIGHT & SODA FOUNTAIN CO., Chicago, Ill.
Filed June 29, 1920. Serial No. 134,370. PUBLISHED NOVEMBER 30, 1920.

141,156. COTTON PIECE GOODS. CHAS. KOHLMAN & CO., INC., New York, N. Y.
Filed July 23, 1920. Serial No. 135,331. PUBLISHED DECEMBER 7, 1920.

141,157. CERTAIN ARTICLES OF CLOTHING. LA FRANCE NOVELTY CO., INC., (now by change of name Alphen, Inc.), New York, N. Y.
Filed September 25, 1919. Serial No. 123,128. PUBLISHED DECEMBER 7, 1920.

141,158. ISINGLASS, GELATIN, AND GELATINOUS SUBSTANCES. LATIMER PFANDER SWINBORNE, London, England.
Filed July 16, 1920. Serial No. 135,050. PUBLISHED DECEMBER 7, 1920.

141,159. ISINGLASS, GELATIN, AND GELATINOUS SUBSTANCES. LATIMER PFANDER SWINBORNE, London, England.
Filed July 16, 1920. Serial No. 135,051. PUBLISHED DECEMBER 7, 1920.

141,160. NON-ALCOHOLIC, NON-CEREAL, NON-MALT BEVERAGES SOLD AS SOFT DRINKS. MAX HENRY LEISTER, Philadelphia, Pa., assignor to Ades Product Corporation, Philadelphia, Pa., a Corporation of Pennsylvania.
Filed August 7, 1919. Serial No. 121,349. PUBLISHED MARCH 23, 1920.

141,161. COOKING COMPOUND COMPRISING OILS AND HYDROGENATED OILS. LEVER BROTHERS COMPANY, Cambridge, Mass.
Filed April 22, 1920. Serial No. 131,488. PUBLISHED DECEMBER 7, 1920.

141,162. MOTOR-CARS. LINCOLN MOTOR COMPANY, Detroit, Mich.
Filed August 7, 1920. Serial No. 135,893. PUBLISHED NOVEMBER 30, 1920.

141,163. DRY COLORS ADAPTED FOR USE IN THE MANUFACTURE OF INKS AND INKING MATERIAL. MANGANO MANUFACTURING COMPANY, Rahway, N. J.
Filed July 21, 1920. Serial No. 135,244. PUBLISHED NOVEMBER 16, 1920.

141,164. EQUINE FEVER-POWDER. MANGAN & CO., New York, N. Y.
Filed April 3, 1920. Serial No. 130,606. PUBLISHED NOVEMBER 30, 1920.

141,165. PILE-SALVE. MARJAX CHEMICAL CO., Baltimore, Md.
Filed June 18, 1920. Serial No. 133,884. PUBLISHED NOVEMBER 30, 1920.

141,166. WICKING USED FOR PACKING PURPOSES. MASSASOIT MANUFACTURING COMPANY, Fall River, Mass.
Filed March 4, 1920. Serial No. 129,219. PUBLISHED SEPTEMBER 28, 1920.

141,167. BAKERY PRODUCTS — NAMELY, BREAD, CAKE, DOUGHNUTS, COOKIES, AND PIES. MASSACHUSETTS BAKING COMPANY, Springfield, Mass.
Filed July 26, 1920. Serial No. 135,428. PUBLISHED NOVEMBER 30, 1920.

141,168. PIANOS, PIANO-PLAYERS, AND ORGANS, ALL ELECTRICALLY CONTROLLED. THE MASTER MUSIC COMPANY, Wilmington, Del., and Philadelphia, Pa.
Filed December 17, 1918. Serial No. 114,691. PUBLISHED DECEMBER 7, 1920.

141,169. POCKET AMMETERS AND VOLTMETERS AND WATTMETERS. METRIC APPLIANCE CORPORATION, New York, N. Y.
Filed July 24, 1920. Serial No. 135,379. PUBLISHED NOVEMBER 30, 1920.

141,170. PHONOGRAPH-RECORD CLEANERS. MEZUO CHEMICAL COMPANY, Montgomery, Ala.
Filed September 29, 1920. Serial No. 137,740. PUBLISHED NOVEMBER 30, 1920.

141,171. WHEAT-FLOUR. MIDDLE STATES MILLING COMPANY, Tulsa, Okla.
Filed September 18, 1920. Serial No. 137,325. PUBLISHED NOVEMBER 30, 1920.

141,172. PARASOLS AND UMBRELLAS. J. A. MIGEL, INC., New York, N. Y.
Filed February 13, 1920. Serial No. 128,353. PUBLISHED DECEMBER 7, 1920.

141,173. CERTAIN NAMED PIECE GOODS. J. A. MIGEL, INC., New York, N. Y.
Filed February 16, 1920. Serial No. 128,457. PUBLISHED NOVEMBER 23, 1920.

141,174. ABRASIVE PAPER AND ABRASIVE CLOTH. MINNESOTA MINING & MFG. CO., St. Paul, Minn.
Filed October 20, 1920. Serial No. 138,585. PUBLISHED NOVEMBER 30, 1920.

141,175. ABRASIVE PAPER AND ABRASIVE CLOTH. MINNESOTA MINING & MFG. CO., St. Paul, Minn.
Filed October 20, 1920. Serial No. 138,586. PUBLISHED NOVEMBER 30, 1920.

141,176. CANDY. MINT PRODUCTS CO., INC., New York, N. Y.
Filed July 28, 1920. Serial No. 135,516. PUBLISHED DECEMBER 7, 1920.

141,177. CANDY. MINT PRODUCTS CO., INC., New York, N. Y.
Filed July 28, 1920. Serial No. 135,517. PUBLISHED DECEMBER 7, 1920.

141,178. CANDY. MINT PRODUCTS CO., INC., New York, N. Y.
Filed July 28, 1920. Serial No. 135,518. PUBLISHED DECEMBER 7, 1920.

141,179. CANDY. MINT PRODUCTS CO., INC., New York, N. Y.
Filed July 28, 1920. Serial No. 135,519. PUBLISHED DECEMBER 7, 1920.

141,180. CANDY. MINT PRODUCTS CO., INC., New York, N. Y.
Filed July 28, 1920. Serial No. 135,520. PUBLISHED DECEMBER 7, 1920.

141,181. CANDY. MINT PRODUCTS CO., INC., New York, N. Y.
Filed July 28, 1920. Serial No. 135,521. PUBLISHED DECEMBER 7, 1920.

141,182. CONNECTION-CLIPS. RALPH S. MUELLER, Cleveland, Ohio.
Filed December 15, 1919. Serial No. 126,050. PUBLISHED DECEMBER 7, 1920.

141,183. ELECTRIC BATTERIES, FLASH-LIGHTS, ELECTRIC NOVELTIES, AND BATTERY NOVELTIES. NATIONAL CARBON COMPANY, INC., Cleveland, Ohio.
Filed August 9, 1918. Serial No. 112,651. PUBLISHED NOVEMBER 30, 1920.

141,184. RING TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed July 1, 1920. Serial No. 134,479. PUBLISHED NOVEMBER 30, 1920.

141,185. CERTAIN NAMED BURNERS, STOVES, MANTLES, PORTABLE FORGES, AND OIL-LANTERNS. THE NATIONAL SUPPLY COMPANY, Toledo, Ohio.
Filed May 1, 1919. Serial No. 118,061. PUBLISHED DECEMBER 7, 1920.

141,186. WAISTS AND VESTS. NAZARETH WAIST CO., Nazareth, Pa.
Filed July 13, 1920. Serial No. 134,907. PUBLISHED DECEMBER 7, 1920.

141,187. POWER-HAMMERS. NAZEL ENGINEERING & MACHINE WORKS, Philadelphia, Pa.
Filed July 13, 1920. Serial No. 134,904. PUBLISHED NOVEMBER 30, 1920.

141,188. RHODE ISLAND INDIAN-CORN MEAL. JAMES EDWARD NEWTON, Fall River, Mass.
Filed September 18, 1920. Serial No. 137,328. PUBLISHED NOVEMBER 30, 1920.

141,189. ELECTRIC STARTING, LIGHTING, AND IGNITION APPARATUS FOR MOTOR-VEHICLES. NORTH EAST ELECTRIC COMPANY, Rochester, N. Y.
Filed November 24, 1919. Serial No. 125,239. PUBLISHED MARCH 23, 1920.

141,190. OVERALLS, UNIONALLS, PANT-OVERALLS KNOWN AS WAIST-OVERALLS OR DUNGAREES, OVERALL JUMPERS, SHOP-COATS, AND DUSTERS. OVERLAND MFG. CO., Boston, Mass.
Filed March 1, 1920. Serial No. 129,077. PUBLISHED NOVEMBER 30, 1920.

141,191. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,653. PUBLISHED DECEMBER 7, 1920.

141,192. BRISLING AND SILD, (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,661. PUBLISHED DECEMBER 7, 1920.

141,193. CANDY. PACKAGE CONFECTIONERY COMPANY, Boston, Mass.
Filed July 28, 1917. Serial No. 105,350. PUBLISHED NOVEMBER 30, 1920.

141,194. CERTAIN NAMED TIRES, TUBES, INNER LININGS, AND ACCESSORIES. CARL PALMER, Grand Rapids, Mich.
Filed September 17, 1917. Serial No. 106,283. PUBLISHED NOVEMBER 30, 1920.

141,195. GREEN MALT, HOPS, AND PITCH. PAN-AMERICA SUPPLY COMPANY, INC., New York, N. Y.
Filed June 17, 1919. Serial No. 119,715. PUBLISHED DECEMBER 21, 1920.

141,196. CERTAIN NAMED VENT-PATCHING MATERIALS. PATTERSON, GOTTFRIED AND HUNTER INC., New York, N. Y.
Filed April 24, 1920. Serial No. 131,590. PUBLISHED DECEMBER 7, 1920.

141,197. CARBON-REMOVER. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed June 14, 1920. Serial No. 133,678. PUBLISHED NOVEMBER 30, 1920.

141,198. DEVICE FOR MEASURING AND CONTROLLING THE FLOW OF GASOLENE. PEARSON-WIGGINS CO., Chicago, Ill.
Filed August 9, 1920. Serial No. 135,945. PUBLISHED NOVEMBER 30, 1920.

141,199. COTTON PIECE GOODS. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed August 10, 1920. Serial No. 135,974. PUBLISHED DECEMBER 7, 1920.

141,200. SHOE-POLISH, EITHER PASTE, LIQUID, OR POWDER, AND FOR HAT-CLEANING MATERIAL. NICK PICCOLI, Paterson, N. J.
Filed February 17, 1920. Serial No. 128,518. PUBLISHED JULY 13, 1920.

141,201. POLISH FOR AUTOMOBILE-BODIES, PIANOS, FURNITURE, AND THE LIKE. FERDINAND M. PISCULLI, Yonkers, N. Y.
Filed July 22, 1920. Serial No. 135,298. PUBLISHED DECEMBER 7, 1920.

141,202. CERTAIN NAMED CUTLERY AND TOOLS. PITARD'S, INC., New Orleans, La.
Filed October 8, 1918. Serial No. 113,623. PUBLISHED DECEMBER 7, 1920.

141,203. LIQUID PREPARATION FOR USE IN PRODUCING WHIPPED CREAM. GEORGE F. PRESS, Detroit, Mich.
Filed April 4, 1918. Serial No. 109,986. PUBLISHED MARCH 16, 1920.

141,204. TRADE PUBLICATION OR ADVERTISING-MAGAZINE, PUBLISHED QUARTERLY OR AT MORE FREQUENT PERIODS. THE PREST-O-LITE COMPANY, INC., Indianapolis, Ind.
Filed July 27, 1917. Serial No. 105,321. PUBLISHED NOVEMBER 30, 1920.

141,205. SOAP CHIPS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed October 22, 1920. Serial No. 138,688. PUBLISHED NOVEMBER 30, 1920.

141,206. ELECTRICAL ATTACHMENT-PLUGS, SOCKETS, AND CONNECTORS. THE M. PROPP CO., New York, N. Y.
Filed January 24, 1920. Serial No. 127,564. PUBLISHED DECEMBER 7, 1920.

141,207. FRUIT JAM. PUYALLUP & SUMNER FRUIT GROWERS CANNING COMPANY, Puyallup, Wash.
Filed July 31, 1920. Serial No. 135,659. PUBLISHED DECEMBER 7, 1920.

141,208. REFRACTORY CEMENT USED TO BIND FIRE-BRICKS. PYRO PRODUCTS COMPANY, Chicago, Ill.
Filed September 13, 1919. Serial No. 122,658. PUBLISHED FEBRUARY 24, 1920.

141,209. TIRES MADE OF RUBBER OR RUBBER AND FABRIC AND INNER TUBES OF RUBBER FOR SAID TIRES. QUICK TIRE SERVICE, INC., New York, N. Y.
Filed July 5, 1918. Serial No. 111,951. PUBLISHED NOVEMBER 25, 1919.

141,210. CANNED GOODS—NAMELY, CANNED VEGETABLES AND FRUITS—FISH, TEAS, AND COFFEES. H. T. QUINLAN & COMPANY, St. Paul, Minn.
Filed March 18, 1919. Serial No. 116,692. PUBLISHED NOVEMBER 30, 1920.

141,211. CLEANSING, BLEACHING, BLUING, AND STAIN-REMOVING PULVERIZED SOAP. RELYEA SOAP COMPANY, Louisville, Ky.
Filed October 22, 1920. Serial No. 138,692. PUBLISHED NOVEMBER 30, 1920.

141,212. WOMEN'S, CHILDREN'S, AND INFANTS' COATS, CLOAKS, WRAPS, CAPES, SUITS, COSTUMES, AND HATS. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed August 5, 1920. Serial No. 135,824. PUBLISHED NOVEMBER 30, 1920.

141,213. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE COMMONLY KNOWN AS MATÉ. SAY TAY CO., Louisville, Ky.
Filed July 7, 1919. Serial No. 120,323. PUBLISHED DECEMBER 7, 1920.

141,214. COTTON BELTING AND HAIR BELTING. "SCANDINAVIA" BELTING LTD., London, England.
Filed April 15, 1919. Serial No. 117,507. PUBLISHED DECEMBER 7, 1920.

141,215. LAXATIVES. WILLIAM SCHAPIRA, New York, N. Y.
Filed June 12, 1920. Serial No. 133,637. PUBLISHED NOVEMBER 30, 1920.

141,216. MEN'S, YOUTHS', AND BOYS' JACKETS, VESTS, TROUSERS, KNICKERBOCKERS, OVERCOATS, RAINCOATS, MACKINAWS, HATS, AND CAPS. S. SCHNEIDERS AND SON, London, England.
Filed July 14, 1920. Serial No. 134,987. PUBLISHED DECEMBER 7, 1920.

141,217. NON-ALCOHOLIC MALTLESS BEVERAGE SOLD AS A SOFT DRINK. THE SCHUSTER CO., Cleveland, Ohio.
Filed August 6, 1920. Serial No. 135,869. PUBLISHED DECEMBER 21, 1920.

141,218. PLAYER-PIANO ACTIONS. SCOTT PLAYER ACTION CO., Racine, Wis.
Filed January 19, 1920. Serial No. 127,344. PUBLISHED DECEMBER 7, 1920.

141,219. CANNED TUNA FISH, CANNED ALBACORE, CANNED YELLOWTAIL, CANNED MACKEREL AND CANNED SARDINES. SEACOAST CANNING CO., Eastport, Me., and East San Pedro, Calif.
Filed January 26, 1920. Serial No. 127,616. PUBLISHED DECEMBER 7, 1920.

141,220. SPIRITS OF TURPENTINE. THOMAS SEALY, New York, N. Y.
Filed February 15, 1919. Serial No. 115,886. PUBLISHED MAY 27, 1919.

141,221. WEAR-PADS TO BE FASTENED TO THE KNEES. SEARS MANUFACTURING COMPANY, Lockhart, Tex.
Filed August 3, 1920. Serial No. 135,769. PUBLISHED NOVEMBER 30, 1920.

141,222. CANNED VEGETABLES. THE SEARS AND NICHOLS CANNING CO., Chillicothe, Ohio.
Filed July 29, 1920. Serial No. 135,582. PUBLISHED NOVEMBER 30, 1920.

141,223. CONFECTIONERS' PRODUCTS USED FOR CREAM CENTERS FOR CANDIES, CARAMEL PASTE, AND NOUGAT-WHIP. SENNEFF-HERR CO., Sterling, Ill.
Filed August 21, 1920. Serial No. 136,341. PUBLISHED NOVEMBER 30, 1920.

141,224. OLIVE-OIL. ALEX D. SHAW & CO., New York, N. Y.
Filed January 9, 1920. Serial No. 126,971. PUBLISHED DECEMBER 7, 1920.

141,225. OVERALLS. SHERMAN OVERALL MANUFACTURING COMPANY, Sherman, Tex.
Filed August 6, 1920. Serial No. 135,873. PUBLISHED NOVEMBER 30, 1920.

141,226. BUTTER, EGGS, CHEESE, POULTRY, AND FROZEN EGGS. SHERMAN WHITE & COMPANY, Fort Wayne, Ind.
Filed September 18, 1920. Serial No. 137,345. PUBLISHED NOVEMBER 30, 1920.

141,227. PAINT-OIL. SIEMON & ELTING, New York, N. Y.
Filed August 6, 1920. Serial No. 135,868. PUBLISHED NOVEMBER 30, 1920.

141,228. SELF-RISING FLOUR. J. ALLEN SMITH & CO., Knoxville, Tenn.
Filed September 18, 1920. Serial No. 137,339. PUBLISHED NOVEMBER 30, 1920.

141,229. MONTHLY MAGAZINE. EUGENE A. SMITH, Chicago, Ill.
Filed September 17, 1920. Serial No. 137,292. PUBLISHED NOVEMBER 30, 1920.

141,230. HOUSEHOLD-AMMONIA, BLEACHING FLUID, AND BLUING. GERALD N. SMITH, Pittsburgh, Pa.
Filed April 20, 1920. Serial No. 131,404. PUBLISHED NOVEMBER 30, 1920.

141,231. WOMEN'S AND MISSES'-TRIMMED HATS. JOHN EDWIN SNYDER, Washington, D. C.
Filed February 19, 1920. Serial No. 128,622. PUBLISHED DECEMBER 14, 1920.

141,232. CERTAIN NAMED ELECTRICAL APPARATUS. SOCIÉTÉ ANONYME DES ETABLTS. ESSELBÉ, Levallois-Perret, France.
Filed August 22, 1918. Serial No. 112,841. PUBLISHED NOVEMBER 30, 1920.

141,233. CERTAIN NAMED ELECTRICAL MECHANISM AND APPARATUS. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,503. PUBLISHED DECEMBER 7, 1920.

141,234. CERTAIN NAMED INSTRUMENTS FOR USE IN NAVIGATION. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,506. PUBLISHED DECEMBER 7, 1920.

141,235. COTTON THREAD. CHARLES SPICEHANDLER, New York, N. Y.
Filed January 24, 1920. Serial No. 127,533. PUBLISHED SEPTEMBER 28, 1920.

141,236. COTTON THREAD. CHARLES SPICEHANDLER, New York, N. Y.
Filed January 24, 1920. Serial No. 127,334. PUBLISHED DECEMBER 7, 1920.

141,237. LAUNDRY SOAP. SPRAGUE, WARNER & COMPANY, Chicago, Ill.
Filed December 24, 1919. Serial No. 126,426. PUBLISHED DECEMBER 7, 1920.

141,238. CONCRETE-TESTING MOLDS. THE STANDARD CONCRETE APPARATUS CO., Washington, D. C.
Filed August 3, 1920. Serial No. 135,770. PUBLISHED NOVEMBER 30, 1920.

141,239. HOPS. STANDARD IMPORTS LIMITED, Montreal, Quebec, Canada.
Filed August 9, 1920. Serial No. 135,951. PUBLISHED NOVEMBER 30, 1920.

141,240. MEN'S AND BOYS' DRESS, NEGLIGÉE, AND WORK SHIRTS MADE OF COTTON AND SILK. C. SUBIN & CO., New York, N. Y.
Filed August 8, 1919. Serial No. 121,417. PUBLISHED DECEMBER 7, 1920.

141,241. LORGNETTE-FRAMES. SUSSFELD, LORSCH & Co., New York, N. Y.
Filed August 3, 1918. Serial No. 112,511. PUBLISHED NOVEMBER 19, 1918.

141,242. OILY PREPARATION FOR CLEANING METAL SURFACES TO PREVENT THE ACCUMULATION OF RUST. SUPERIOR LABORATORIES, Grand Rapids, Mich.
Filed October 16, 1920. Serial No. 138,415. PUBLISHED DECEMBER 21, 1920.

141,243. PAINTS—NAMELY, COLD-WATER PAINTS, CALCIMINES, WATER-COLOR WALL-TINTS, WALL-PAINTS, AND PAINT WALL-SIZES. MILTON D. SWARTZ, Baltimore, Md.
Filed July 31, 1920. Serial No. 135,671. PUBLISHED DECEMBER 7, 1920.

141,244. UNFERMENTED, NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE FOR USE AS A SOFT DRINK. THE SWEET VALLEY PRODUCTS CO., Sandusky, Ohio.
Filed August 13, 1919. Serial No. 121,647. PUBLISHED FEBRUARY 3, 1920.

141,245. LAXATIVE PREPARATION. B. F. SWISHER, Cheyenne, Wyo.
Filed July 6, 1920. Serial No. 134,613. PUBLISHED NOVEMBER 30, 1920.

141,246. CANDY. SYRACUSE CANDY WORKS INC., Syracuse, N. Y.
Filed August 2, 1920. Serial No. 135,735. PUBLISHED DECEMBER 7, 1920.

141,247. MOVING-PICTURE FILMS. ROBERT WILMOT TEED, Pittsburgh, Pa.
Filed July 12, 1920. Serial No. 134,862. PUBLISHED NOVEMBER 30, 1920.

141,248. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. LOUISE O. TERHORST, Milwaukee, Wis.
Filed December 18, 1919. Serial No. 126,237. PUBLISHED NOVEMBER 30, 1920.

141,249. CERTAIN SPRINGS AND TOOLS AND FLEXIBLE SHAFTING, PAWLS AND OILETS FOR MECHANISM. HERBERT TERRY & SONS, LTD., Redditch, England.
Filed November 17, 1917. Serial No. 107,447. PUBLISHED NOVEMBER 30, 1920.

141,250. KEROSENE-OIL. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed July 25, 1919. Serial No. 120,943. PUBLISHED DECEMBER 7, 1920.

141,251. TOOTH-PASTE. WALTER K. TICHENOR, New York, N. Y.
Filed June 15, 1920. Serial No. 133,754. PUBLISHED NOVEMBER 30, 1920.

141,252. PAINT-PIGMENTS AND PAINTS CONTAINING TITANIUM OR A COMPOUND THEREOF. TITAN CO. A/S, Christiania, Norway.
Filed February 6, 1920. Serial No. 128,055. PUBLISHED DECEMBER 7, 1920.

141,253. MEN'S STRAW HATS. THE TOWNSEND GRACE COMPANY, Baltimore, Md.
Filed January 24, 1920. Serial No. 127,565. PUBLISHED MAY 11, 1920.

141,254. TRACTORS. THE DOUGHBOY TRACTORS, Dallas, Tex.
Filed July 6, 1920. Serial No. 134,558. PUBLISHED NOVEMBER 30, 1920.

141,255. CANDLES. UDDO BROTHERS COMPANY, INC., New Orleans, La.
Filed November 29, 1918. Serial No. 114,425. PUBLISHED NOVEMBER 30, 1920.

141,256. CAST-TOOTH SPROCKETS, CUT-TOOTH SPROCKETS, FRICTION-CLUTCHES, AND SPEED-REDUCERS. THE UNION CHAIN & MANUFACTURING COMPANY, Seville, Ohio.
Filed September 14, 1920. Serial No. 137,190. PUBLISHED NOVEMBER 30, 1920.

141,257. SALTED PEANUTS. THE UNITED NUT AND CHOCOLATE COMPANY, Wilkes-Barre, Pa.
Filed January 13, 1920. Serial No. 127,101. PUBLISHED DECEMBER 7, 1920.

141,258. ABRASIVE BEARING-FITTING COMPOUNDS. UNITED STATES PRODUCTS COMPANY, Pittsburgh, Pa.
Filed July 29, 1920. Serial No. 135,585. PUBLISHED NOVEMBER 30, 1920.

141,259. SYRUP OF MALT AND HOPS USED IN MAKING MALT BEVERAGES. UNITED STATES SYRUP Co., San Francisco, Calif.
Filed July 28, 1920. Serial No. 135,531. PUBLISHED DECEMBER 7, 1920.

141,260. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,178. PUBLISHED NOVEMBER 23, 1920.

141,261. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,179. PUBLISHED NOVEMBER 23, 1920.

141,262. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,180. PUBLISHED NOVEMBER 23, 1920.

141,263. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,181. PUBLISHED NOVEMBER 23, 1920.

141,264. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,182. PUBLISHED NOVEMBER 23, 1920.

141,265. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,183. PUBLISHED NOVEMBER 23, 1920.

141,266. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,184. PUBLISHED NOVEMBER 23, 1920.

141,267. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed February 9, 1920. Serial No. 128,185. PUBLISHED NOVEMBER 23, 1920.

141,268. CERTAIN NAMED PAPER. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,053. PUBLISHED DECEMBER 7, 1920.

141,269. CANTALOUPS. WAPATO MELON GROWERS ASSOCIATION, Wapato, Wash.
Filed September 15, 1920. Serial No. 137,251. PUBLISHED DECEMBER 7, 1920.

141,270. WRITING-PAPER. WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill.
Filed July 28, 1920. Serial No. 135,537. PUBLISHED DECEMBER 7, 1920.

141,271. PUBLICATION ISSUED SEMI-ANNUALLY. WICHITA MOTORS COMPANY, Wichita Falls, Tex.
Filed September 16, 1920. Serial No. 137,276. PUBLISHED NOVEMBER 30, 1920.

141,272. ODORIFEROUS ANTISEPTIC SOLUTIONS SUITABLE FOR THE PRODUCTION OF MEDICINAL AND TOILET PREPARATIONS. HORACE WILCOX, Wakefield, R. I.
Filed June 17, 1920. Serial No. 133,856. PUBLISHED NOVEMBER 30, 1920.

141,273. RUBBER HEELS. FRANCIS W. WILLIS, Kansas City, Mo.
Filed July 6, 1920. Serial No. 134,621. PUBLISHED NOVEMBER 30, 1920.

141,274. RUBBER HEELS. FRANCIS W. WILLIS, Kansas City, Mo.
Filed July 6, 1920. Serial No. 134,622. PUBLISHED NOVEMBER 30, 1920.

141,275. HEALING-OIL. THOMAS F. WOODRUFF, Columbus, Ga.
Filed February 25, 1920. Serial No. 128,911. PUBLISHED DECEMBER 7, 1920.

141,276. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. WORLD BOTTLING CO., LTD., New Orleans, La.
Filed August 11, 1919. Serial No. 121,552. PUBLISHED DECEMBER 9, 1919.

141,277. CERTAIN NAMED MEDICINAL PREPARATIONS. WORLD'S MEDICINE CO., Indianapolis, Ind.
Filed June 5, 1920. Serial No. 133,340. PUBLISHED NOVEMBER 30, 1920.

141,278. GRINDING COMPOUND. WORCESTER ABRASIVE COMPANY, Worcester, Mass.
Filed October 12, 1920. Serial No. 138,246. PUBLISHED NOVEMBER 30, 1920.

141,279. LIVER-PILLS. EUGENE W. YOUNGKEN, Philadelphia, Pa.
Filed July 21, 1920. Serial No. 135,255. PUBLISHED NOVEMBER 30, 1920.

141,280. LADIES' DRESSES, SUITS, OUTER SKIRTS AND WAISTS, COATS, SWEATERS, HATS. I. ZIMETBAUM, New York, N. Y.
Filed March 10, 1920. Serial No. 129,523. PUBLISHED DECEMBER 7, 1920.

141,281. SALAD-DRESSING. ADAM ZITTEL, Long Island City, N. Y.; Margaret Zittel administratrix of the estate of said Adam Zittel, deceased.
Filed May 7, 1920. Serial No. 132,156. PUBLISHED DECEMBER 14, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

APRIL 12, 1921.

141,282. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ATWATER KENT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Dec. 20, 1920. Serial No. 141,289.

ATWATER KENT

Particular description of goods.—Electrical Automotive Accessories — Namely, Starting, Lighting, and Ignition Apparatus, and Parts Thereof.

Claims use since on or about Jan. 1, 1916.

141,283. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) B. A. BALLOU & CO. INC., Providence, R. I. Filed Nov. 1, 1920. Serial No. 139,019.

BALLOU

Particular description of goods.—Jewelry for Personal Adornment Which is Made of or Plated with Precious Metal—Namely, Ornamental Hairpins, Ornamental Clasp-Pins, Pin-Stems, Pin-Joints, Pin-Catches, Pendants, Neck-Chains, Key-Chains, Bracelet-Chains, Necklaces, Bracelets, Finger-Rings, Key-Rings, Chain-Fastening Rings, Snap-Fasteners, Bibb-Holders, Cuff-Links, Cuff-Buttons, Lingerie-Clasps, Spring-Rings, Swivels, Tie-Clasps, Rivet-Wire, Collar-Buttons, Cuff-Buttons, Studs, Ear-Fasteners, Eyeglass-Holders, Eyeglass-Reels, Belt-Clasps, and Belt-Supporters.

Claims use since January, 1919.

141,284. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BLACK & DECKER MANUFACTURING CO., Baltimore, Md. Filed Nov. 24, 1920. Serial No. 140,090.

THE BLACK & DECKER MFG. CO. B&D BALTIMORE, MD. U.S.A.

Particular description of goods.—Portable Electric Drills and Parts Thereof, Portable Electric Valve-Grinders; Portable Electric Screw, Bolt, and Nut Drivers; Electric Air-Pumps and Air-Compressors, Portable Electric Augers and Post-Grinders, Electric Bench and Floor Grinders, and Electric Aerial Grinders.

Claims use since on or about Mar. 19, 1915.

141,285. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BUFFALO FORGE COMPANY, Buffalo, N. Y. Filed Sept. 15, 1919. Serial No. 122,680.

ARMOR PLATE

Particular description of goods.—Punching and Shearing Machinery for Working Metals, Bar-Cutters, and Universal Punch, Shear, and Bar-Cutters.

Claims use since May, 1901.

141,286. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ADOLPH BULOVA, New York, N. Y. Filed Jan. 3, 1920. Serial No. 126,759.

MONOGRAM

Particular description of goods.—Watchcases.

Claims use since Nov. 18, 1919.

141,287. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE WUNDER EARLEY, Los Angeles, Calif. Filed Mar. 12, 1920. Serial No. 129,589.

LAVENDER CREAM

Particular description of goods.—A Face-Cream.

Claims use since 1910.

141,288. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTROLYTE STORAGE BATTERY CO., Philadelphia, Pa. Filed Nov. 8, 1920. Serial No. 139,351.

SEPARATORLESS ELECTROLYTE

Particular description of goods.—Storage, Lighting, and Starting Batteries.

Claims use since Oct. 1, 1919.

141,289. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE CARPET CO., New York, N. Y. Filed Apr. 9, 1920. Serial No. 130,886.

ARDMORE

Particular description of goods.—Rugs Made of Wool and Cotton.
Claims use since about March, 1919.

141,290. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE CARPET CO., New York, N. Y. Filed Apr. 9, 1920. Serial No. 130,887.

BRENTWOOD

Particular description of goods.—Rugs Made of Wool and Cotton.
Claims use since about March, 1919.

141,291. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HARLEY-DAVIDSON MOTOR CO., Milwaukee, Wis. Filed July 24, 1920. Serial No. 135,369.

HARLEY-DAVIDSON

Particular description of goods.—Electric Generators.
Claims use since Dec. 1, 1919.

141,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER & CO., Chicago, Ill. Filed June 3, 1920. Serial No. 133,216.



Particular description of goods.—An Ant-Destroyer.
Claims use since July 26, 1911.

141,293. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,269.

R



Particular description of goods.—Burlap.
Claims use since 1910.

141,294. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MARION STEAM SHOVEL COMPANY, Marion, Ohio. Filed Dec. 20, 1920. Serial No. 141,319.

MARION

Particular description of goods.—Electric Shovels.
Claims use since Jan. 1, 1902.

141,295. (CLASS 37. PAPER AND STATIONERY.) MILLERS FALLS PAPER COMPANY, Millers Falls, Mass. Filed Dec. 16, 1920. Serial No. 141,176.

SALES RECORD
LEDGER

Particular description of goods.—Printing and Writing Papers.
Claims use since Aug. 1, 1910.

141,296. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MINNEAPOLIS STEEL & MACHINERY COMPANY, Minneapolis, Minn. Filed June 10, 1919. Serial No. 119,428.

TWIN CITY

Particular description of goods.—Motor-Driven Trucks.
Claims use since May 20, 1919.

141,297. (CLASS 12. CONSTRUCTION MATERIALS.) NIAGARA WALL BOARD COMPANY INCORPORATED, Buffalo, N. Y. Filed July 10, 1919. Serial No. 120,428.



Particular description of goods.—Wall-Board, Sheathing-Board, and Building-Paper.
Claims use since June 10, 1919.

141,298. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. C. PENN, INCORPORATED, Newark, N. J., and New York, N. Y. Filed Nov. 30, 1920. Serial No. 140,472.

WALLACE

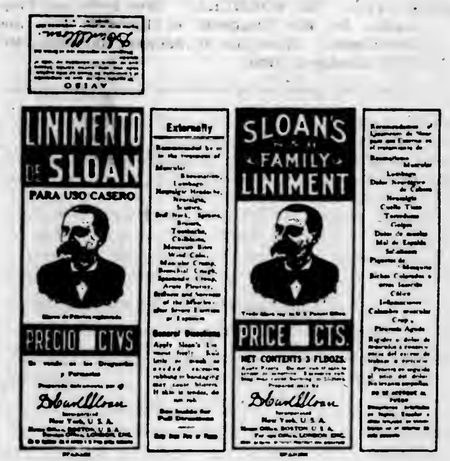
Particular description of goods.—Electric Portable Lamps and Electric-Lamp Supports.
Claims use since Nov. 15, 1913.

141,299. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PERRY-LORENSON PHONOGRAPH COMPANY, Hudson, N. Y. Filed Jan. 8, 1921. Serial No. 141,990.

The Lorenson

Particular description of goods.—Phonographs.
Claims use since April, 1919.

141,300. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. EARL S. SLOAN, INCORPORATED, New York, N. Y. Filed Mar. 4, 1920. Serial No. 129,252.



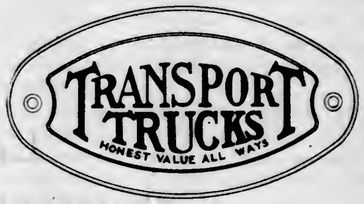
Particular description of goods.—A Liniment Where an Irritant or Stimulant is Desired, Such as in the Treatment of Muscular Rheumatism, Lumbago, Neuralgia, Toothache, and Similar Ailments, and Internally for the Treatment of Wind-Colic, Muscular Cramp, Bronchial Cough, Spasmodic Croup, and Similar Ailments.
Claims use since Jan. 1, 1918.

141,301. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TOLEDO SCALE COMPANY, Toledo, Ohio. Filed Mar. 4, 1916. Serial No. 93,323.

TOLEDO

Particular description of goods.—Weighing-Scales, Weighing-Machines, Weighing Apparatus, Counting-Machines, Dynamometers, Balance-Testing Machines, and Instruments for Measuring Tension, Resilience, Strength of Material, Resistance to Distortion, and Moisture Content.
Claims use since July, 1901.

141,302. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TRANSPORT TRUCK COMPANY, Mount Pleasant, Mich. Filed Jan. 6, 1920. Serial No. 126,885.



Particular description of goods.—Gasolene Motor-Trucks.
Claims use since Nov. 3, 1919.

141,303. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BROS. CO., INC., Buffalo and Rochester, N. Y. Filed July 31, 1919. Serial No. 121,165.

CERTIFIED

Particular description of goods.—Bread and Cake.
Claims use since July 25, 1919.

141,304. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WEBSTER ELECTRIC COMPANY, Racine, Wis. Filed Sept. 4, 1920. Serial No. 136,865.

WEBSTER

Particular description of goods.—Appliances Used in Connection with Internal-Combustion Engines—Namely, High and Low Tension Ignition-Magnetos, Magneto-Brackets, Electrodes, and Magneto Push-Rods.
Claims use since about July 22, 1909.

LABELS

REGISTERED APRIL 12, 1921.

22,854.—*Title:* "MY FORMULA." (For a Medicinal Preparation for the Treatment of Nervous Diseases.) RACHMIEL G. ZUCKER, Baltimore, Md. Filed January 3, 1921.

22,855.—*Title:* "MY FORMULA." (For Medicinal Preparation for the Treatment of Epileptic Fits and Convulsions.) RACHMIEL G. ZUCKER, Baltimore, Md. Filed January 3, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE HOILAND.

Decided January 22, 1920.

1. REISSUE—DELAY OF MORE THAN THREE YEARS IN FILING APPLICATION—EXCUSE INSUFFICIENT.

Delay of more than three years in filing an application for reissue containing broadened claims may not be excused on the ground that applicant was ignorant of patent matters, particularly the meaning of claims; that an attorney conducted the proceedings to obtain the patent who unduly restricted the claims; that applicant lived in a country remote from any patent lawyer, and that the restricted scope of the claims was not discovered until parties who became interested therein directed attention to the defect, when steps to obtain a reissue were promptly taken.

2. SAME—DELAY IN FILING APPLICATION—RULE NOT RELATED TO INTERVENING RIGHTS.

Applicability of the rule of laches in the filing of an application for reissue is not dependent upon whether there are intervening rights. (*Mahn* v. *Harwood*, 112 U. S., 354.)

3. SAME—INADVERTENCE, ACCIDENT, OR MISTAKE—EFFECT OF CANCELING CLAIMS FROM ORIGINAL APPLICATION.

The fact that claims of substantially the same scope as those sought in a reissue were canceled from the original application after rejection negatives the assertion of inadvertence, accident, or mistake in failing to secure them in the original patent.

[Decision affirmed by the Court of Appeals of the District of Columbia, 285 O. G., 393.]

APPEAL from Examiners-in-Chief.

WIND-SHIELD FOR AUTOMOBILE-RADIATORS.

Messrs. Foster, Freeman, Watson & Coit for the applicant.

NEWTON, *Commissioner:*

This is an appeal from a decision of the Examiners-in-Chief affirming the action of the Primary Examiner in his final rejection of claims 1 to 9, of which 1, 5, and 7 are examples:

1. In the water cooling system of an automobile engine, the combination with a radiator, of means controlled by the temperature of the cooling water for regulating the flow of air through the radiator.

5. In the water cooling system of an automobile engine, the combination with a radiator, of means in front of the radiator to regulate the flow of air through the radiator and a device automatically regulated in its movements by the temperature of the cooling water for operating said means to increase and decrease the flow of air as the temperature rises and falls, respectively.

7. In a wind-shield for automobile radiators, the combination of a frame and means for attaching the frame to the automobile in front of the radiator, of a shutter mounted in the frame and adapted to be opened and closed to regulate the flow of air through the radiator, and automatic means controlled by the temperature of the cooling water for opening the shutter when the temperature of the water rises.

The invention covered by the appealed claims is an internal-combustion-engine-radiator shutter and means for opening and closing the shutter operated by the temperature of the water in the radiator, so as to regulate the amount of air passing through the radiator-coils.

This is a reissue application and was filed more than three years after the issuance of the patent, and the grounds of rejection of the appealed claims have been reduced to (1) insufficient excuse for seeking a reissue for broadened claims in view of the long delay; (2) that claims 1 to 7 are broader than original claim 3, which was deliberately canceled after a rejection by the Office.

Applicant in effect gives as his excuse that he was ignorant as to what the claims allowed in the original patent covered, and since he lived in North Dakota, hundreds of miles from any patent attorney, and had only previously taken out one patent it would be unreasonable to hold him responsible for the mistake of claiming his invention too specifically. Applicant also contends that the patented claims include both automatic and manual means for regulating the shutter, and the patented claims therefore are invalid, since there is no real combination between these two means, as one is operated independently of the other. Indeed, the manually-operated means, since it would have to be positively held in different positions, could not be operative simultaneously with the automatic means.

While the circumstances of this case are somewhat different from those of *in re Otto* (265 O. G., 309; 49 App. D. C., 89) and *in re Schneider* (253 O. G., 513; affirmed by the Court of Appeals of the District of Columbia, 271 O. G., 362; 49 App. D. C., 204,) the controlling principles governing them are the same. In both the Schneider and Otto cases the excuse for the delay was much the same as in the present case—that is to say, the inventors employed attorneys to prosecute their applications and relied upon the attorneys to claim the inventions as broadly as the applicants were entitled to claim, and the inventors being unskilled in patent matters, particularly as to the meaning of the

claims, did not realize the limited scope of the claims of the patents until some one became interested in them and directed the applicants' attention thereto, when the reissue applications were promptly filed.

Applicant has emphasized at length in his brief that he became active as soon as his error was discovered; but that was also true in the Otto and Schneider cases. Furthermore, it is noted that applicant's device is quite a simple one, and the error his attorney made, if, indeed, it was an error, in including both the manual and the automatic means for operating the shutter was one easily discovered. Hence if applicant's ignorance of patent law can be accepted as an excuse for his delay it would open the door to practically every applicant to disregard the two years' time allowed to discover his mistake without holding him to the strict accountability required in *Topliff* v. *Topliff*, (145 U. S., 156; 1892, C. D., 402.)

Applicant also contends in his brief that—

> the question of intervening rights is after all the only material question involved in the matter of diligence in asking for a reissue. If there are no *bona fide* intervening rights, no one will be harmed by the grant of the reissue.

This contention, however, does not square up with the decisions. In the celebrated case of *Mahn* v. *Harwood*, (112 U. S., 354,) where the delay had been three years and ten months after the issue of the original patent, the record did not show or suggest any intervening rights, and yet the reissue was held invalid entirely on the ground of laches in filing the application for reissue to broaden the claims.

In regard to the second ground of rejection—viz., that applicant deliberately canceled original claim 3 and claim 1, presented February 21, 1913, of the patent application after rejection by the Examiner—it also appears that the Examiners-in-Chief were correct in their interpretation of the practice.

The reissue statute only provides for reissue when the original patent is inoperative or invalid and where—

> the error has arisen by inadvertence, accident or mistake.

There was no such inadvertence, accident, or mistake in deliberately canceling a claim as would justify a reissue covering substantially the same subject-matter. (See *Leggett* v. *Avery*, 101 U. S., 256–259; *in re Lacroix*, 133 O. G., 2181; 30 App. D. C., 299; *National Casket Co.* v. *Stoltz*, 197 Fed. Rep., 940; *Robert* v. *Krementz*, 232 Fed. Rep., 876.) It is true the canceled claims were not precisely the same in scope as claims 1 to 7, but they were for substantially the same invention, and having deliberately canceled claims to this subject-matter applicant is not in a position to now assert that there has been any inadvertence, accident, or mistake such as will support a reissue.

There appears to be no error in the decision of the Examiners-in-Chief, and it must be accordingly affirmed.

EX PARTE WEBER, SR.

Decided April 21, 1920.

PATENTS—APPLICATION ABANDONED—"UNAVOIDABLE" DELAY—EFFECT OF RULING OF APPELLATE COURT REVERSING PRIOR PRACTICE.

Where the claims of an application copied from a patent are rejected on the ground of estoppel by reason of delay in copying them for more than one year after the date of the patent and the application, standing under such rejection, is allowed to become abandoned, applicant is not entitled to revive the same after a decision of the Supreme Court in another case holding that the basis of rejection was not warranted, the delay in taking action not being "unavoidable" under section 4894, Revised Statutes.

ON PETITION.

Mr. Frank C. Curtis for the applicant.

WHITEHEAD, *First Assistant Commissioner:*

This is a petition for the revival of the above-entitled application, the last Office action being dated April 20, 1918.

It appears that this rejection was made under the authority of *Rowntree* v. *Sloan* (226 O. G., 744; 45 App. D. C., 207) and *Wintroath* v. *Chapman and Chapman*, (248 O. G., 1004; 47 App. D. C., 428,) it being held that applicant did not make during the prosecution of the application on which his patent now sought to be reissued was granted a claim commensurate in scope with the claims which it is sought to copy from the Wirt *et al.* patent, No. 1,043,380, issued April 5, 1912, within one year from the date of that patent.

In support of the petition it is admitted that at the time the final rejection was made it was in accordance with the practice announced by the Court of Appeals of the District of Columbia in the case of *Wintroath* v. *Chapman and Chapman*, *supra*, but it is pointed out that on March 1, 1920, the United States Supreme Court handed down its decision in the *Wintroath* v. *Chapman and Chapman* case—

> reversing said Court of Appeals of the District of Columbia upon the very point here involved.

It is argued that the applicant's hands were tied by the decision of the court of appeals until it was reversed by the United States Supreme Court and that he could not properly appeal and charge that the Examiner was in error, because the Examiner was right under the law as it then stood, and there was nothing to do but to await the decision of the United States Supreme Court.

Section 4894, Revised Statutes, provides that an application is abandoned where no action is taken within one year from the date of an Office action unless the delay was unavoidable. Obviously the fact that the Office would follow the decision of the court of appeals did not prevent the applicant from taking the appeal. Applicant could himself have carried the case to the court of appeals, and if it were decided against him could have asked the Supreme Court for a writ of certiorari. It does not appear that he knew that a writ of certiorari had been granted in the *Wintroath* v. *Chapman and Chapman* case or that he failed to appeal for any reason but because he thought that he could not

succeed in the appeal under the then ruling of the court of appeals.

If this case can be reopened and the interference declared, it would seem that every case decided on the authority of *Wintroath* v. *Chapman and Chapman* case between the date of the court of appeal's decision and the date of the Supreme Court decision could be reopened, whether the decision had been an *ex parte* rejection or decision on priority in an interference. If applicant's position is right, it would further seem that he would be entitled to revive this application, even though the ruling of the Supreme Court had been made in another case, which was not taken to that Court until after his application became abandoned. Obviously no such holding could be made and it is suggested here merely as an illustration of the length to which the relief asked for by applicant would necessarily have to be carried in other cases. As noted above, the applicant had the same right to request relief from the decision of the court of appeals as had the parties to that case themselves.

It must be held, therefore, that the delay was not unavoidable.

The petition is denied.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE HOILAND.

Decided February 7, 1921.

REISSUE—DELAY IN FILING APPLICATION—DISCRETIONARY AUTHORITY OF COMMISSIONER.

Determination of the question whether the circumstances are such as to excuse delay in filing an application for reissue seeking to broaden claims is one resting largely within the discretion of the Commissioner of Patents.

Mr. James A. Watson for Hoiland.

Mr. T. A. Hostetler for the Commissioner of Patents.

MEMORANDUM OPINION BY MR. JUSTICE VAN ORSDEL.

This appeal is from the refusal of the Commissioner of patents to grant a reissue application filed more than three years after the issuance of the patent. The invention, as described by the Commissioner, relates to—

> an internal combustion engine radiator shutter and means for opening and closing the shutter operated by the temperature of the water in the radiator, so as to regulate the amount of air passing through the radiator coils.

The claims were denied upon the settled rule that reissue claims which seek to broaden the claims of the original patent will not be allowed except for unusual circumstances which excuse delay. (*In re Starkey*, 21 App. D. C., 519.) The determination of this question is one largely within the discretion of the Commissioner, and will not be disturbed unless manifest error has been committed.

A careful examination of the record fails to disclose any extenuating circumstances which would justify a departure from the rule.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

KIRBY *v.* REPLOGLE.

Decided January 5, 1921.

PATENTS—INTERFERENCE—SENIOR PARTY AWARDED PRIORITY ON TWO COUNTS ON WHICH INTERFERENCE WAS DISSOLVED.

Where the Commissioner of Patents awarded priority of invention to Replogle as to two counts of the interference, but dissolved it as to other counts, holding two of said counts not patentable over the issue of another interference to which Replogle was a party and in which priority of invention was decided against him, *Held* that where both interferences were appealed and Replogle was successful in both cases he was entitled to an award of priority upon said two counts, as well as upon the others.

Mr. H. E. Smith and *Mr. G. E. Tew* for Kirby.

Mr. D. B. Replogle pro se.

VAN ORSDEL, *J.:*

This is a companion case to *Replogle* v. *Noguchi*, No. 1,327, decided this day. The cases were heard together. It is unnecessary to set out the counts of the issue, inasmuch as, with the exception of one point hereafter considered, we approve the disposition of the case made by the Commissioner of Patents. The issue is in six counts. The Commissioner awarded counts 2 and 3 to Replogle, and dissolved the interference as to counts 1, 4, 5, and 6. The Commissioner, however, in his opinion states that—

> counts 5 and 6 are clearly unpatentable over Noguchi and should never have been included in this interference. Kirby has been defeated in an interference with Noguchi and of course cannot be granted these claims, and unless Replogle wins in the *Replogle* v. *Noguchi* interference, he cannot be allowed these claims. This interference therefore is dissolved as to counts 1, 4, 5 and 6.

Inasmuch as we have held in the former case that Replogle is entitled to priority over Noguchi, it follows that he should also be awarded counts 5 and 6.

The decision is affirmed as to counts 1, 2, 3 and 4, and reversed as to counts 5 and 6.

Affirmed as to counts 1, 2, 3 and 4, and reversed as to counts 5 and 6.

Court of Appeals of the District of Columbia.

SNELLING *v.* WHITEHEAD, COMMISSIONER OF PATENTS.

Submitted December 7, 1920; decided January 3, 1921.

[269 Fed. Rep., 712.]

1. PATENTS—CLAIM OF ABANDONMENT CAN BE ADJUDICATED IN INTERFERENCE PROCEEDING.

While the question of patentability will not be considered by the court of appeals in an interference appeal, the question of abandonment by one applicant is always available as affecting his right to priority.

2. INJUNCTION—CONDUCT OF INTERFERENCE PROCEEDING BY COMMISSIONER OF PATENTS CANNOT BE CONTROLLED.

Under Revised Statutes, section 4904, (Comp. St., sec. 9449,) providing for the declaration of an interference by the Commisioner of Patents, and the other statutes and rules having the force of statute, prescribing the procedure on interference, an injunction to restrain the Commissioner of Patents from further proceeding with an interference and to require the striking of certain orders made therein would control actions of an executive officer in matters committed by law to his discretion, and injunction will not issue for that purpose.

3. INJUNCTION—WILL NOT ISSUE WHERE THERE IS ADEQUATE REMEDY BY APPEAL IN INTERFERENCE PROCEEDING.

An injunction to control the Commissioner of Patents in interference proceedings will not issue where plaintiff's claim is based on alleged abandonment by another party to the interference, so that there is an adequate remedy at law by appeal in the interference proceeding.

APPEAL from the Supreme Court of the District of Columbia.

Suit by Walter O. Snelling against Robert F. Whitehead, Commissioner of Patents, for a mandatory injunction. Decree for defendant, and plaintiff appeals. Affirmed.

Mr. F. D. McKenny, *Mr. J. S. Flannery*, and *Mr. G. B. Craighill* for the appellant.

Mr. R. F. Whitehead and *Mr. L. B. Mann* for the Commissioner of Patents.

VAN ORSDEL, *J.*:

Appellant, plaintiff below, filed a bill in equity in the Supreme Court of the District of Columbia against the defendant, as Commissioner of Patents, praying a mandatory injunction to restrain defendant from proceeding further with an interference proceeding pending in the Patent Office, and to require defendant to strike from the files pertaining to said interference certain orders made therein, to discontinue further proceedings in connection with said interference, to reject without further hearing the application for a patent filed May 18, 1915, by one Walter F. Rittman, and for general relief.

Defendant made return to the rule and filed a motion to dismiss the bill for (*a*) want of equity; (*b*) want of jurisdiction to control the action of defendant Commissioner in matters involving the exercise of official judgment and discretion; and (*c*) because plaintiff has an adequate and complete remedy provided by law.

It appears that Rittman filed an applicant for a patent on May 1, 1915, and requested that the patent be granted thereon without requiring the payment of the fee as provided by the act of Congress of March 3, 1883. (22 Stat., 625; Comp. St., sec. 9441.) authorizing the issuance of a patent to any officer of the Government, other than officers and employees of the Patent Office, without the payment of any fee, provided that the applicant state in his application—

that the invention described therein, if patented, may be used by the Government or any of its officers or employees in the prosecution of work for the Government, or by any other person in the United States, without payment to him of any royalty thereon, which stipulation shall be included in the patent.

Thereafter, pursuant to certain correspondence set out in the bill, the fee was paid on March 15, 1915, and the application was filed as of that date. On May 18, 1915, Rittman filed a second application, paid the fees thereon, and made no reference therein to the act of 1883. The interference here sought to be restrained is a tri-party proceeding, in which Brooks, Bacon and Clark, who filed March 26, 1915, were made senior parties; Rittman, the intermediate party, and appellant, who filed November 20, 1916, the junior party. In this situation, Rittman, in view of his application of March 15, 1915, moved to shift the burden of proof with respect to Brooks, Bacon and Clark. The motion was sustained by the Examiner of Interferences, and, on appeal, affirmed by the Commissioner. It may be suggested that it is not apparent just how appellant could be affected by this shift in the burden of proof; since, in any event, he retains his position as the junior party, due to his later filing date.

It is insisted, however, that Rittman, by his attempted dedication of his patent to the Government thereby abandoned it and forfeited any right to continue in the interference. The refusal of the Commissioner of Patents to treat Rittman's application as abandoned does not, as appellant assumes, go to the patentability of the invention in issue. While the question of patentability will not be considered by this court in an interference appeal, the question of abandonment is always available as affecting the right of priority. Hence, there is nothing of which appellant complains that cannot be adjudicated by this court on an appeal in the interference proceeding.

When two or more parties apply for the same invention, provision is made for the declaration of an interference by the Commissioner of Patents. (Rev. Stat., sec. 4904; Comp. St., sec. 9449.) The procedure for taking testimony, trial and appeal through the tribunals of the Patent Office to this court is provided by statute or rules which have the force of statute. It therefore follows that to grant the injunctive relief here sought would amount to controlling the actions of an executive officer in matters committed by law to his discretion. It is settled by an unbroken line of decision that neither injunction nor mandamus will lie for this purpose. Nor can these extraordinary remedies be invoked when, as here, the aggrieved party has an adequate and complete legal remedy.

The decree is affirmed, with costs.

Affirmed.

Patents Nos. 1,374,894 to 1,375,661.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 285—No. 3. TUESDAY, APRIL 19, 1921. Price—$5 per year.

[PUBLISHED APRIL 22, 1921.]

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of April 19, 1921.

Patents	768	No. 1,374,894 to No. 1,375,661,	inclusive.
Trade-Marks	161	No. 141,305 to No. 141,466,	inclusive.
Labels	1	No. 22,856.	
Reissues	3	No. 15,089 to No. 15,091,	inclusive.
Total	933		

Changes in Classification.

(ORDER No. 2,647.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 8, 1921.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 225, Dispensing Beverages, (Division XLIII,) establish subclass—

Beer apparatus—

44. Faucet-hole covers and guards.

The patents contained in this subclass have been taken for the most part from class 16, Builders' Hardware, subclass 177, Escutcheon-collars.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 920,259.

On March 15, 1921, a decision was rendered that Sidney Hand Browne was not the first inventor of the subject-matter covered by claims 7 and 8 of his Patent No. 920,259, subject, "Call-distributing telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,246,694.

On March 18, 1921, a decision was rendered that Frederick L. Wood was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,246,694, subject, "Phonograph-needles," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,269,093.

On February 16, 1921, a decision was rendered that Euclid I. La Chapelle was not the first inventor of the subject-matter covered by claims 82 and 87 of his Patent No. 1,269,093, subject, "Machines for separating shoes and lasts," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,298,208.

On March 14, 1921, a decision was rendered that Max Herskovitz was not the first inventor of the subject-matter covered by claims 3, 7, and 9 of his Patent No. 1,298,208, subject, "Electric-lighting fixtures," and no appeal having been taken within the time allowed such decision has become final.

Notice Relative to Nolan Act.

April 16, 1921.

The following notice, issued on April 13, 1921, is here published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, April 13, 1921.

Privileges conferred by sections 1 and 2 of H. R. 15,662, approved March 3, 1921, known as the Nolan Act, are conditional upon the past, present, or future granting of similar reciprocal privileges by foreign Governments to citizens of the United States. Up to the present time this Office has not been officially advised that any foreign Government has granted, or is granting, such reciprocal privileges.

The State Department has been requested to obtain and transmit to this Office information as to what, if any, foreign countries have granted to citizens of the United States substantially reciprocal privileges.

Until further notice Examiners are directed to advise any applicant seeking the benefit of the Nolan Act, who makes no attempt to prove that the laws of the country of which the applicant is a citizen or subject grant substantially reciprocal privileges to citizens of the United States, that no benefit under the act can be accorded until satisfactory proof of such reciprocal privilege is furnished. Where an attempt is made to approve the applicable foreign law, before action is taken the case shall be submitted to Law Examiner Underwood.

Cases in which it does not appear that the corresponding foreign patent has been granted will be special and will be treated in the usual way. Cases which must rely entirely upon the provisions of the Nolan Act—*i. e.*, those filed more than a year after the filing of a corresponding foreign application upon which a foreign patent has been granted—will receive action only to the extent indicated in the preceding paragraph, no action on the merits being necessary until it is found that they are entitled to the benefit of the act.

Cases relying entirely upon the Nolan Act shall no longer be made special as provided in Rule 63(f).

In order that these cases which do not receive action on the merits at this time may be promptly taken up when the applicable foreign law shall have been proven to the satisfaction of the Office, the files should be kept in a separate case; but the drawing should remain in the usual place for interference search.

Forfeited and abandoned cases which fall within the provisions of section 6 of the act also shall be submitted to Law Examiner Underwood prior to action thereon.

(Signed) THOMAS E. ROBERTSON,
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(Signed) THOMAS E. ROBERTSON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business April 9, 1921.

Room No	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders....	Nov. 24	Dec. 7	622
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 3	Oct. 7	1,352
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Aug. 6	676
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	May 27	Jan. 12	1,460
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 13	Sep. 16	610
315	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 4	Feb. 2	717
312	7. Games and Toys; Optics; Photography; Velocipedes	Nov. 23	Dec. 22	1,161
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Jan. 22	Mar. 3	512
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Aug. 21	Mar. 5	633
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Oct. 1	Jan. 29	987
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Jan. 17	Jan. 24	438
222	12. Machine Elements	Sept. 1	Jan. 19	966
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 21	Dec. 30	1,442
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	July 14	Feb. 4	794
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 24	Aug. 18	1,520
111	16. Radiant Energy; Telegraphy; Telephony	July 2	Sept. 23	1,393
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Oct. 5	Jan. 6	681
239	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	July 31	Oct. 28	1,392
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	July 14	Nov. 1	751
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 4	Jan. 4	967
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Sept. 11	Feb. 11	506
249	22. Aeronautics; Firearms; Ordnance Ammunition and Explosive Devices	Nov. 8	Feb. 4	350
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 11	Jan. 12	805
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 15	Jan. 8	758
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 12	Feb. 19	237
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Sept. 2	Nov. 18	780
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Nov. 18	Jan. 14	880
235	28. Internal-Combustion Engines	Sept. 29	Dec. 15	1,063
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Aug. 20	Jan. 20	629
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Sept. 13	Mar. 7	890
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 15	Oct. 2	1,769
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	July 1	Jan. 5	1,113
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 25	Dec. 16	696
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Mar. 10	Jan. 27	167
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 8	Mar. 4	418
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Nov. 13	Oct. 23	1,459
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Oct. 18	Oct. 23	1,518
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 8	Oct. 21	888
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 1	June 5	1,527
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug 16	Dec. 11	1,472
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Aug. 28	Jan. 5	817
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	July 30	Oct. 4	1,737
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	July 3	Aug. 10	1,130
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Aug. 9	Jan. 28	454
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Aug. 21	Dec. 6	979
264	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 25	Dec. 21	617
332	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Aug. 23	Oct. 23	1,039

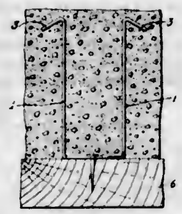
Oldest new case, June 1; oldest amended, June 5
Total number of applications awaiting action 43,772

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 5	Jan. 29	4,572
	Designs	Sept. 25	Dec. 1	1,886
	Labels and Prints	Jan. 3	Feb. 16	564

PATENTS

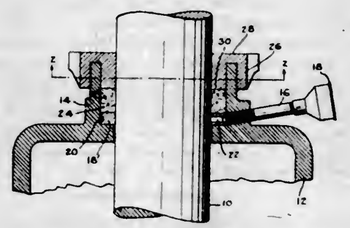
GRANTED APRIL 19, 1921.

1,374,894. HANGER FOR CONCRETE CONSTRUCTION. NILS F. AMBURSEN, Pittsburgh, Pa. Filed June 3, 1919. Serial No. 301,510. 5 Claims. (Cl. 72—101.)



5. A hanger for concrete structures having a part for anchorage in the concrete with which it is to be used and a hanger part comprising a wire arranged in massed relation in position to lie between the mold and the concrete when the latter is poured and to be released and freed from the concrete upon removal of the mold.

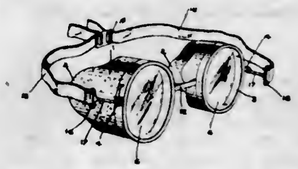
1,374,895. LUBRICATING AND PACKING DEVICE FOR SHAFTS. JOSEPH T. AUGER, Minneapolis, Minn., assignor of three-eighths to E. M. Ferguson, St. Paul, Minn., and three-eighths to E. Du Lac, Minneapolis, Minn. Filed Dec. 16, 1919. Serial No. 345,183. 3 Claims. (Cl. 64—24.)



1. A lubricating and packing device for shafts comprising a box surrounding the shaft and spaced therefrom, a ring at the inner end of said box surrounding said shaft, said ring having a circumferential groove and holes leading therefrom to the inner margin of the ring, means for supplying lubricant to said groove, packing material in contact with the outer side of said ring, and means for holding said packing material under compression.

1,374,896. EYE-PROTECTOR. ARTHUR A. ARNOLD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 24, 1917. Serial No. 203,782. 8 Claims. (Cl. 2—149.)

1. A pair of goggles including eyecups, a lens positioned against the outer end of each eyecup, a second lens arranged in advance of each of the first lenses and rim members attached to the eyecups and engaging the second



lenses to hold the same in place, the second lenses being in such position as to retain the first lenses in position against the eyecups.

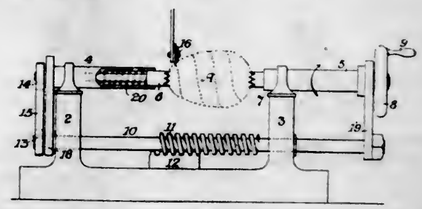
1,374,897. TREATMENT OF MINED SULFUR. RAYMOND F. BACON and HAROLD S. DAVIS, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Oct. 6, 1919. Serial No. 328,934. 6 Claims. (Cl. 23—10.)

1. The method of improving the free burning quality of mined sulfur containing oil, which comprises carbonizing the oil by maintaining a molten body of the sulfur containing it at a temperature of from 400° C. to 430° C. for a sufficient length of time to effect the desired carbonization of the oil; substantially as described.

1,374,898. TREATMENT OF MINED SULFUR. RAYMOND F. BACON and HAROLD S. DAVIS, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Oct. 6, 1919. Serial No. 328,935. 6 Claims. (Cl. 23—10.)

1. The method of refining mined sulfur containing oil, which comprises carbonizing the oil by maintaining a molten body of the sulfur containing it at an oil carbonizing temperature until the desired carbonization has been effected, and then cooling the body of sulfur to a temperature above the melting point of sulfur and holding the body of sulfur at this lower temperature for a sufficient length of time to permit the segregating out of the carbon; substantially as described.

1,374,899. PROCESS OF REMOVING COCOANUT-SHELLS. FRANKLIN BAKER, Jr., Philadelphia, Pa. Filed June 29, 1918. Serial No. 242,513. 3 Claims. (Cl. 146—3.)



2. The process of shelling a nut having the form of an ovoid or spheroid, which comprises supporting said nut at

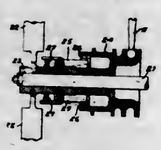
its polar ends, bringing a cutting tool into engagement with the shell of the nut, and imparting longitudinal and rotative movements to said nut and tool relatively to each other whereby a continuous cut is made in the shell of the nut from end to end thereof.

1,374,900. LENS FOR HEADLIGHTS. LOUIS BENZER and HENRY BENZER, Brooklyn, N. Y., assignors to The Benzer Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 12, 1920. Serial No. 350,784. 2 Claims. (Cl. 240—48.4.)



1. A lens for headlights having its upper portion divided into a plurality of prismatic light refracting surfaces, a plurality of transversely concave parallel prismatic surfaces in the lower portion of said lens and triangular convex surfaces interposed between said transversely concave surfaces in the lower portion of the headlight lens, the defining edge of said triangular surfaces lying in a plane below the ends of the transversely concave surfaces to provide a vertical wall for separating the concave and triangular surfaces.

1,374,901. COOLING SYSTEM. GEORGE S. BLANKENHORN, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Feb. 5, 1917. Serial No. 147,243. 1 Claim. (Cl. 123—171.)



In an engine cooling system, conduit means adjacent the engine providing a passage for cooling water, a radiator connected with said conduit means, a fan for inducing a flow of air past said radiator, a thermostat operable by variations in temperature of the cooling water, a friction clutch operable by said thermostat to vary the speed of said fan, and means for positively connecting said fan to the engine upon attainment of a predetermined speed.

1,374,902. ROCKING SEAT FOR CHILDREN. BOLLING L. BLOCKER, Chattanooga, Tenn. Filed Apr. 8, 1920. Serial No. 372,294. 6 Claims. (Cl. 46—22.)



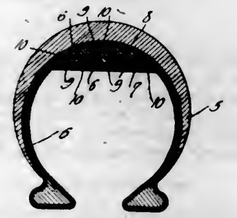
1. A rocking toy comprising an arcuate body, seats arranged in each end of the body, and a pivoted and sliding handle for each seat.

1,374,903. REVERSIBLE POWDER-PUFF. FLORENCE BORNHAUPT, New York, N. Y., assignor to Maurice Levy, New York, N. Y. Filed May 26, 1920. Serial No. 384,496. 2 Claims. (Cl. 15—72.)
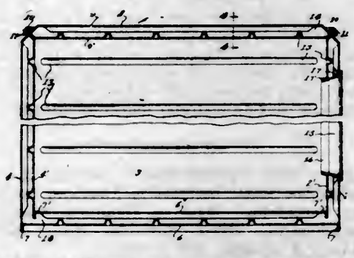


1. A device of the class described, including a protector, puff sections normally arranged within said protector, a lining member disposed between the walls of the protector and the puff sections, means for connecting the puff sections to the protector and reinforcing gores connected to the puff sections and portions of the protector as and for the purpose set forth.

1,374,904. TIRE CONSTRUCTION. LEWIS GUST CARILLON, Barberton, Ohio. Filed July 10, 1919. Serial No. 309,811. 1 Claim. (Cl. 152—18.)



A tire shoe comprising textile layers, one of which is spaced from the other to form, at the tread of the shoe, a pocket the inner wall of which extends from one side of the shoe to the other and is disposed throughout its entire width at right angles to the median plane of the shoe; a circumferential filler in the pocket and conforming closely to the cross sectional contour of the pocket; circumferential metal bands embedded in the filler and inclosed in sheaths, all of the bands being disposed at right angles to the median plane of the shoe, the bands being placed edge to edge in rows, the bands of one row being located in break-joint order with respect to the bands of an adjoining row, the side edges of the bands of the inner row being located close to said other layer, the number of bands in the rows decreasing to a single outer band disposed in the median plane of the shoe.

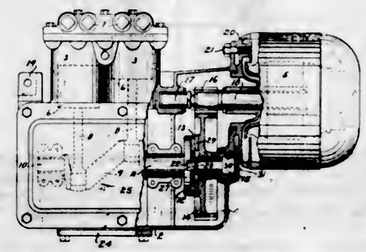
1,374,905. HOLLOW-WALLED RECEPTACLE. WILLIAM J. CASEY and ARNT HAANES, Detroit, Mich. Filed Sept. 3, 1920. Serial No. 407,908. 4 Claims. (Cl. 220—15.)



1. A hollow walled receptacle, comprising spaced walls joined at their extremities and having a plurality of integral parallel ribs struck from the opposed faces of said walls, the ribs of one wall extending at substantially right angles to the ribs of the opposed wall and interengaging each other at the points of intersection.

4. A hollow walled receptacle comprising spaced wall sections formed with a plurality of parallel integral ribs struck upon the opposed faces thereof and angularly intersecting and engaging each other, and means for interconnecting said sections at their extremities to form an inclosed receptacle.

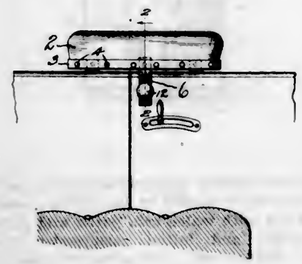
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1. In combination, a motor having a shaft rotatable at high speed, a compressor having a shaft rotatable at relatively low speed and a driving connection between said shafts, said connection being rotatable at the speed of said compressor shaft permitting relative transverse movement of said shafts.

9. In combination, a compressor having a shaft and a cylinder lying in a common plane, a motor located adjacent said cylinder and having a shaft lying in said plane, gearing associated with said motor shaft, and a driving connection between said gearing and said compressor shaft, said connection permitting motion of said compressor shaft in said plane transversely relative to said motor shaft.

1,374,907. AUTOMOBILE-DRIVER'S ARMREST. PARKER COFRODE, Johnstown, Pa. Filed Aug. 22, 1919. Serial No. 319,256. 3 Claims. (Cl. 296—44.)



3. An arm rest attachment for automobiles including a penetrable base having a cushion applied thereto, a substantially inverted U-shaped bracket rigidly secured to the intermediate portion of the penetrable body and depending therefrom, said bracket including a relatively straight depending arm having a cushion facing applied thereto and a relatively curved arm provided with a threaded opening, and a screw clamping member having a cushion foot portion adapted to operate in said threaded opening of the curved arm to work in opposition to the stratght arm, and cushion means carried by the under side of the said penetrable body.

1,374,908. DOOR-LOCKING DEVICE. ALPHA LEON DAVENPORT and ARTHUR JOHN JAMES, Vancouver, British Columbia, Canada. Filed Dec. 13, 1919. Serial No. 344,700. 5 Claims. (Cl. 70—91.)



2. A door locking device comprising a hollow sleeve forming a handle spindle, a knob secured to one end of said spindle, a hollow knob loosely mounted on the opposite end of the spindle, provided on its inner periphery with notches, a disk secured to the end of the sleeve and rotatable in the hollow knob, a pawl mounted on said disk adapted for engagement with said teeth, and means for raising said pawl out of such engagement.

1,374,909. METHOD OF MAKING GRAPHITE CRUCIBLES. JEAN HUBERT LOUIS DE BATS, Zelienople, Pa., assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 31, 1918, Serial No. 237,503. Renewed Aug. 5, 1920. Serial No. 401,563. 10 Claims. (Cl. 106—10.)

1. The method of making crucibles or pots containing clay, which consists in mixing non-ferrous metal with the material from which the crucible or pot is formed, and forming the crucible or pot therefrom, whereby in the use of the crucible or pot the metal forms a metallic silicate coating on the surface thereof.

1,374,910. METHOD OF MAKING CLAY AND GRAPHITE CRUCIBLES. JEAN HUBERT LOUIS DE BATS, Zelienople, Pa., assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 31, 1918, Serial No. 237,502. Renewed Aug. 5, 1920. Serial No. 401,564. 10 Claims. (Cl. 106—10.)

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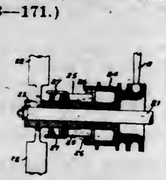
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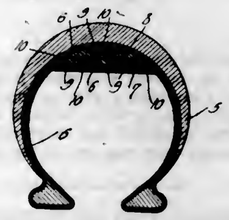
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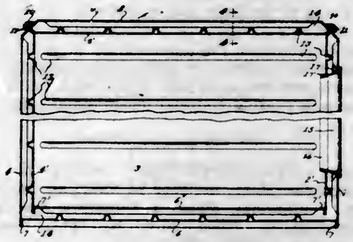
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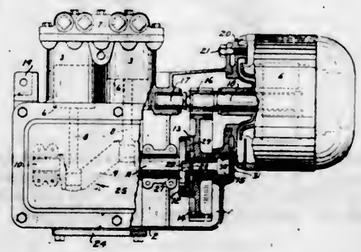
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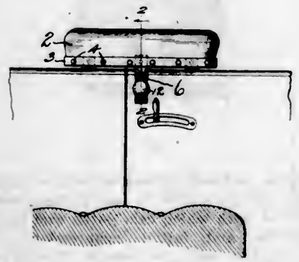
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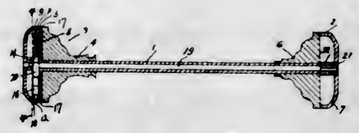
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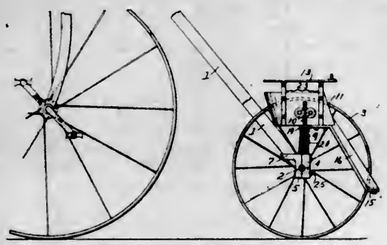
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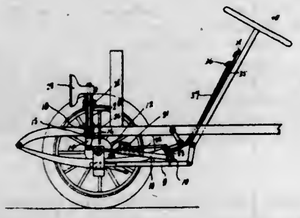
1. The combination with the rear wheels, fork and axle of a tricycle, sets of axle engaging clamping members, an arm connected with one clamping member of each set, and adapted to engage in front of an associated arm of the rear fork, a post mounted upon one clamping member

of each set, springs coiled about said posts, and a seat supported by the springs between the rear wheels, and



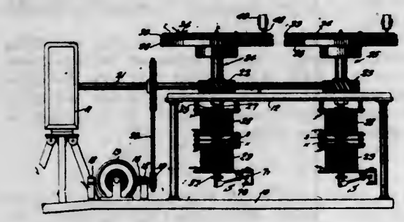
provided with guides to receive the upper end portions of the posts.

1,374,912. AUTOMOBILE HEADLIGHT CONTROL. JOHN EDMUND EAGLES, New Westminster, British Columbia, Canada. Filed Mar. 31, 1920. Serial No. 370,249. 2 Claims. (Cl. 240—62.)



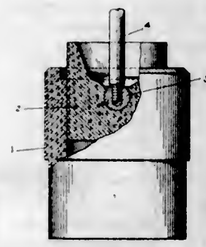
1. A dirigible headlight operating means comprising a pair of slidably engaged members, a pin slidable through one of said members and normally engaged with the other member to restrain said members from relative sliding movement, a lever pivotally connected to the pin and mounted on that member through which the pin extends, a resilient connection between said lever and its supporting member located on one side of the lever pivot, and means connected to said lever on the opposite side of the pivot to move the lever against the resistance of said resilient connection.

1,374,913. SYNCHRONIZED RECORDING AND REPRODUCING APPARATUS FOR VISUAL AND AUDIBLE ACTIONS. CHARLES W. EBELING, Buffalo, N. Y. Filed Dec. 26, 1916. Serial No. 138,817. 6 Claims. (Cl. 88—16.2.)



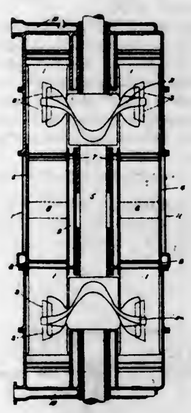
1. In an apparatus of the character described, a moving picture camera, a motor for operating the same, a plurality of sound record mechanisms, electrical means for connecting and disconnecting one of said mechanisms at a time with the motor, an electrical device mounted in the camera and disposed to act upon the film in transit to mark stopping and starting indications upon the film, and electrical circuit controlling means for simultaneously actuating the same and for controlling the selection of the sound record mechanism.

1,374,914. DASHPOT. FRANK ENGEL, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 8, 1916. Serial No. 89,974. 1 Claim. (Cl. 188—100.)



In combination, a cup comprising bakelite and graphite set together in a hard body, a plunger comprising the same ingredients, movable within said cup and a smooth surfaced ball partially embedded in said plunger.

1,374,915. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. WILLIAM ROBERT FASEY, Snaresbrook, England. Filed July 10, 1918. Serial No. 244,304. 3 Claims. (Cl. 123—51.)

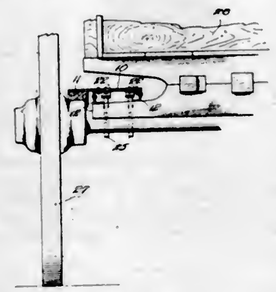


2. A two cycle internal combustion engine comprising opposed pistons, rollers carried by said pistons, cam paths carried by a rotor with which cam paths said pistons cooperate, induction and initial compression chambers formed in the cylinder ends, combustion chambers formed between the oppositely moving pistons, inlet and exhaust ports formed in the cylinder wall, said cam paths having straight portions which correspond to rest periods of the pistons, said straight portions being divided into two parts, whereby at the end of the combustion stroke the exhaust port opens to permit exhaust to atmospheric pressure prior to the opening of the inlet port and inlet port opens prior to the usual closing of the exhaust port.

1,374,916. ELECTROLYTE FOR STORAGE BATTERIES. WILLIAM GARDINER, Chicago, Ill., assignor to Edward W. Wickey, East Chicago, Ind. Filed June 9, 1919. Serial No. 302,719. 6 Claims. (Cl. 204—29.)

1. An electrolyte for storage batteries consisting of a solution of sulfuric acid, a silicate, and powdered soapstone.

1,374,917. MUD-GUARD. RALPH HASTINGS, Ingraham, Ill. Filed Mar. 28, 1919. Serial No. 285,807. 2 Claims. (Cl. 301—123.)



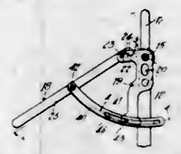
1. A device of the class described including a body plate having a hub engaging pad at one end portion, a pair of extensible brackets depending from the under side of said body plate and being adjustable vertically with respect to the plate for taking up the wear on said hub engaging pad, a pair of arms depending from the under side of said plate at one side of said brackets and comprising pairs of longitudinally adjustable sections, a pair of angle plates secured to the under side of said body plate and adjustable transversely of the same, a second pair of arms hinged to said angle plates and comprising upper and lower sections adjustable with relation to each other, and bowed springs rigidly connected at their upper ends to said angle plates and engaging the lower sections of said second named pairs of arms for urging the same inwardly, the lower portions of said first and second named arms being provided with inwardly extending lugs adapted for engaging an axle.

1,374,918. CURRENT-DENSITY INDICATOR. EDWIN HEIL, Wichita, Kans. Filed Mar. 10, 1919. Serial No. 281,606. 5 Claims. (Cl. 171—95.)



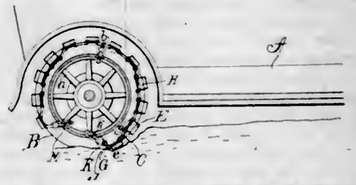
1. A device for indicating the number of amperes per surface unit passing through an electrode which consists of a meter having a direct reading indicator, and means connected thereto for passing current through the meter proportional to a fixed unit of surface.

1,374,919. RAIN AND SUN SHIELD. ERNEST C. HILLMAN, Los Angeles, Calif. Filed June 1, 1920. Serial No. 385,723. 15 Claims. (Cl. 296—95.)



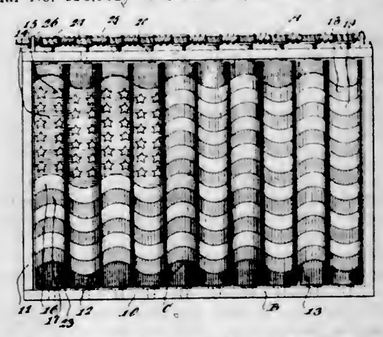
8. A rain and sun shield, applicable to the ordinary automobile windshield having side posts, comprising a pair of brackets, each bracket having means whereby the bracket is secured to the windshield side post, a shield member adjustably supported upon and extending between said brackets, said shield member comprising a plurality of substantially rigid panel sections, and means for connecting the sections together permitting relative adjustment of the sections to vary the dimension of the member in the direction of its extent between the two brackets.

1,374,920. EXTRICATOR-TIRE FOR AUTOMOBILES. ERASTUS L. HOTCHKISS, Edinboro, Pa. Filed July 22, 1919. Serial No. 312,469. 1 Claim. (Cl. 152—14.)



In a tractor device for automobile wheels, the combination with a series of spaced blocks arranged side by side, of connectors secured crosswise of the blocks on the under side near the ends of the blocks, the said connectors having hollow, cylindrical terminations, single links arranged between adjacent ends of succeeding blocks and each link having straight ends engaging the hollow cylindrical ends of the connectors whereby the blocks are maintained parallel with each other and against displacement one with respect to another, a predetermined number of blocks at each end of the series of blocks having side guards projecting toward the center of the wheel, and the said connectors and links being secured to the said side guards whereby the said connectors near the ends of the series of blocks follow lines within the peripheral line of the wheel and prevent displacement of the ends of the series of blocks sidewise.

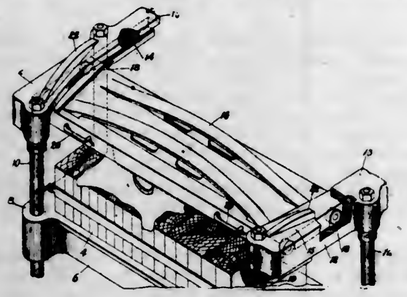
1,374,921. MECHANICALLY-WAVED FLAG. JAMES D. HOUSTON, East Aurora, N. Y. Filed Oct. 11, 1920. Serial No. 416,071. 6 Claims. (Cl. 40—76.)



1. A display apparatus comprising a plurality of rotatable cylindrical rollers arranged side by side having a

series of superposed obliquely disposed rings of different colors arranged thereon, and means for simultaneously rotating said rollers whereby a wavy motion will be presented.

1,374,922. PRESS. ALBERT E. HUDSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 4, 1919. Serial No. 315,116. 9 Claims. (Cl. 164—23.)



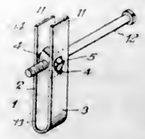
1. In a machine of the class described, a work supporting bed, a presser member movable toward and from said bed and also laterally with respect to the bed, and means for operating the presser member in pressure applying operations comprising vertically reciprocable rods and cross plates connected to said rods and arranged to engage one over each end of the presser member when the latter is in its extreme forward position over the work supporting bed, considerable portions of the plates being arranged to lie on both sides of lines connecting the upper ends of the rods to provide a construction that will insure the application of requisite pressure on the work.

1,374,923. PUMP. DAVID HUNT, Houston, Tex., assignor of one-half to John T. Boyle, Houston, Tex. Filed Mar. 20, 1920. Serial No. 367,517. 2 Claims. (Cl. 103—80.)



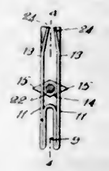
1. A pump, including a standing barrel formed of concentrically arranged pipe sections, a valve seat having a plurality of fluid passageways therethrough and formed with a depending outwardly threaded flange, the upper end of the inner pipe section being threaded onto said flange, a discharge pipe, a coupling connecting said discharge pipe with said seat, the upper end of the outer pipe section being threaded into said coupling, valves controlling the passageways through said seat, a spider within said discharge pipe, provided with fluid passageways and spaced above said valve so as to limit the upward movement thereof, a tubular traveling barrel working between the sections of said standing barrel, an inlet valve carried by the lower end of said traveling barrel, and means for reciprocating said traveling barrel.

1,374,924. TOGGLE. JOHN KARITZKY, Garwood, N. J., assignor to Garwood Company, a Corporation of New Jersey. Filed Apr. 2, 1919. Serial No. 287,041. 2 Claims. (Cl. 85—3.)



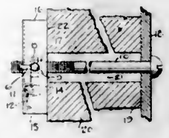
2. In a toggle bolt the combination of a substantially V shaped head having its ends disconnected and said head being provided with seats for a hinge member, a hinge member freely and removably mounted on said seats, and a securing member to secure the spring head to a wall or other support.

1,374,925. TOGGLE. JOHN KARITZKY, Garwood, N. J. assignor to Garwood Company, a Corporation of New Jersey. Filed Apr. 2, 1919. Serial No. 287,042. 1 Claim. (Cl. 85—3.)



An article of manufacture comprising a head of a toggle bolt stamped from spring sheet metal and provided at one end with a reversed bent or crimped portion to make that end heavier and stronger than the other end.

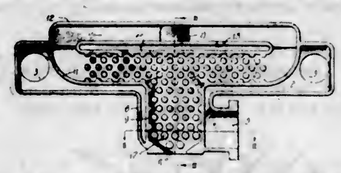
1,374,926. SPRING-TOGGLE. JOHN KARITZKY, Garwood, N. J., assignor to Henry B. Newhall, Jr., Plainfield, N. J., executor of Henry B. Newhall, deceased. Filed Dec. 23, 1919. Serial No. 347,033. 7 Claims. (Cl. 85—3.)



7. The combination in a toggle head provided with bearings for a nut, a nut pivoted in said bearings, a bolt cooperating with the nut, a spring provided with two arms, means to secure the spring and one arm to the toggle head, the other end of the spring coöperating with both the nut and bolt to rock the toggle head at an angle to the bolt.

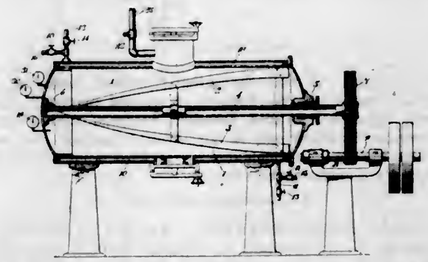
1,374,927. EXHAUST-MANIFOLD. JOSEPH MARION KING, Detroit, Mich. Filed Apr. 7, 1916, Serial No. 89,570. Renewed Aug. 30, 1918. Serial No. 252,129. 3 Claims. (Cl. 257—241.)

1. Fuel heating and mixing means for internal combustion engines comprising a casing with a lateral extension forming an exhaust passage leading from lateral openings symmetrically disposed in relation to the extension, an inner wall concentric with the casing and extension forming a bifurcated fuel conduit from a fuel inlet opening in the extension completely jacketed by the exhaust



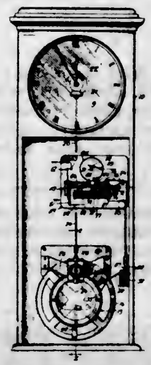
passage, a series of baffles connecting the sides of the fuel conduit throughout the major portion thereof and an exterior wall on the casing forming a return passage leading from the end portions of the conduit branches to a lateral outlet on the extension.

1,374,928. PROCESS FOR CONVERTING CELLULOSE. RUDOLPH A. KOCHER, San Francisco, Calif. Filed Mar. 21, 1917. Serial No. 156,303. 9 Claims. (Cl. 127—10.)



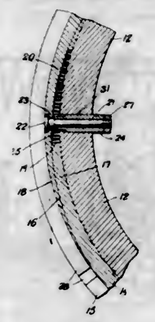
8. The process of treating cellulose which consists in hydrolyzing the cellulose with a halogen acid of 39% strength or over and of critical strength in the presence of halogen acid gas under pressure greater than atmosphere, the amount of water present being less by weight than the dry weight of the material being treated.

1,374,929. SYNCHRONIZER. HENRY I. LARSON, Milwaukee, Wis. Filed Nov. 3, 1919. Serial No. 335,298. 17 Claims. (Cl. 58—24.)



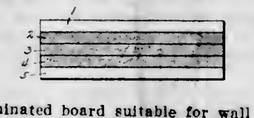
1. In a synchronizing system in which a master clock controls the regular periodic transmission of current impulses to keep time indicators in step therewith, electromagnetic means responsive solely to the restoration of electric power to the system after failure thereof, thereby to transmit rapidly current impulses to bring the indicators into synchronism with the master clock.

1,374,930. ADJUSTABLE RIM. DAVID LAZARUS, New York, N. Y. Filed May 28, 1920. Serial No. 384,873. 5 Claims. (Cl. 301—15.)



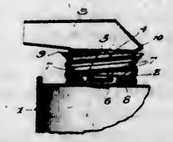
1. An adjustable rim of the class described, said rim being split to form overlapping and tapered end portions, one of said end portions being provided with an elongated aperture, a rack construction in one side wall of said aperture, and a gear device carried by the other end portion of the rim and adapted to coöperate with said rack construction to adjust said first named end portion of the rim longitudinally of the last named end portion.

1,374,931. COMPOSITE SHEET. HARRY S. LEWIS, Beaver Falls, N. Y. Filed Oct. 20, 1919. Serial No. 331,965. 5 Claims. (Cl. 154—45.9.)



1. A laminated board suitable for wall board or other purposes, the center plies of which include wood pulp manufactured from ground cooked hard wood and the outer plies of which include pulp manufactured from other material.

1,374,932. CAN FOR LIQUIDS. HARVEY B. LINDSAY, Oakland, Calif. Filed June 11, 1920. Serial No. 388,270. 3 Claims. (Cl. 221—22.)

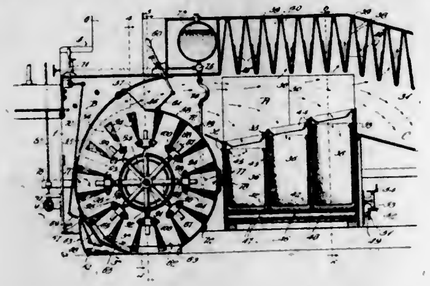


3. An oil can provided with an interiorly threaded nozzle having an opening in its bottom, and a spout provided with a hollow exteriorly threaded plug leading into the spout and having an integral bottom whose central portion acts as a closure to said opening and whose peripheral portion has openings through which the contents of the can may pass when the closure is relaxed.

1,374,933. MOTOR-DRIVEN STREET-SWEEPER. CHARLES WALTER LUND, Willows, Calif. Filed Apr. 11, 1919. Serial No. 289,326. 6 Claims. (Cl. 15—17.)

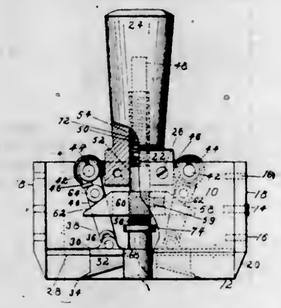
1. A street sweeping machine comprising an elongated wheeled housing, a transverse partition dividing said housing into a front brush compartment and a rear receiving compartment, said partition terminating in spaced relation to the top of the housing, a transverse substantially cylindrical brush casing in said brush compartment having an outlet opening in its top, the portion of the casing behind said outlet opening extending downwardly

to said partition and being hinged to allow vertical swinging of the brush casing within said housing, a combined brush and fan mounted in said brush casing and exposed at the lower side thereof for sweeping the street and blowing the sweepings through said outlet opening into the



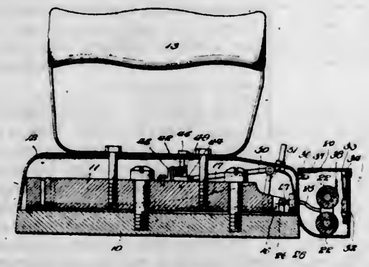
compartment, and a flexible sheet inclined rearwardly from the front edge of the aforesaid outlet opening to the top of the housing to guide the sweepings into the receiving compartment and permit vertical movement of said brush casing.

1,374,934. DIE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 17, 1918. Serial No. 267,176. 27 Claims. (Cl. 164—29.)



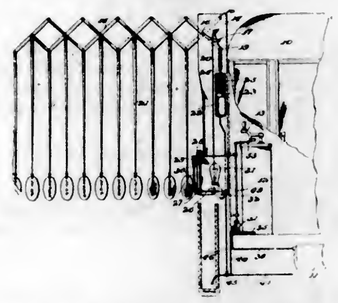
1. A die comprising a carrier member provided with cutting edges, a cutting member movable relatively to the carrier member, and means movable upon the carrier member and effective during the cutting operation by said carrier member for actuating the cutting member.

1,374,935. AUTOMATIC TEMPERATURE-REGULATOR FOR ELECTRICALLY-HEATED DEVICES. DONALD H. MCGOGY, Portland, Oreg. Filed May 3, 1919. Serial No. 294,390. 19 Claims. (Cl. 175—373.)



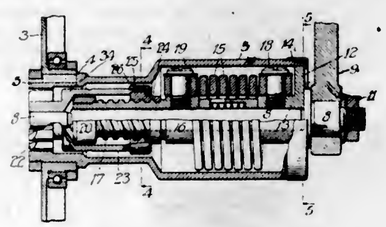
1. A temperature regulator for electrically heated devices including a thermostat, a main current controlling switch, a shunt circuit controlled by said switch, a secondary switch in the shunt circuit, electrically actuated means controlled by the shunt circuit for opening the main switch, means associated with said first mentioned means and normally holding the main switch closed, and means operable by the thermostat for closing the secondary switch.

1,374,936. DANGER-SIGNAL FOR RAILWAY-CARS. DONALD H. MCGOGY, Portland, Oreg. Filed Oct. 3, 1919. Serial No. 328,236. 10 Claims. (Cl. 246—208.)



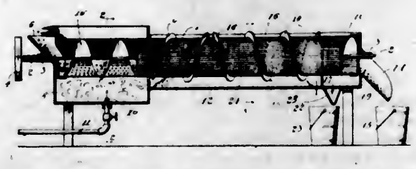
7. A signal of the character described including a lineally extensible arm formed of crossed pivotally connected members, a fluid pressure operated piston connected to the inner end of one of said members for extending the arm, and yieldable means associated with said piston for retracting the arm.

1,374,937. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Oct. 21, 1919. Serial No. 332,193. 23 Claims. (Cl. 74—7.)



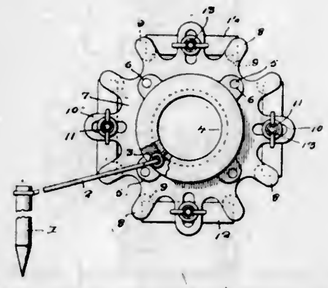
1. An engine starter drive comprising a central support, a sleeve mounted thereon, a concentric cylinder operatively connected with the sleeve, means for rotating the cylinder, and a driving member operatively connected with the sleeve for longitudinal movement thereof and rotary movement therewith.

1,374,938. COATING-MACHINE. DANIEL H. MCNULTY, Jr., Chicago, Ill., assignor of one-half to William Prentiss, Jr., Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,961. 4 Claims. (Cl. 91—7.)



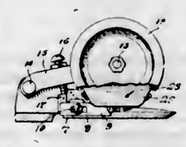
1. A coating machine having a revolving screen arranged approximately horizontally, the screen having an inlet at one end and an outlet at the other, a vaporizing chamber housing one end of the screen for moistening the contents, and a coating container housing the other end of the screen for the purpose described.

1,374,939. AUTOMOBILE-WHEEL ATTACHMENT. JESSE S. MARTIN, Reidsville, N. C. Filed July 20, 1920. Serial No. 397,801. 1 Claim. (Cl. 242—95.)



An automobile wheel attachment comprising a drum adapted for use in association with a cable and cable-anchoring means and having at its inner end peripheral ears, an annular carrying body opposed to the inner end of the drum and riveted to the ears thereof and having radial, longitudinally-slotted projections and also having pairs of other radial projections and lateral arms extending at right angles inwardly from the latter and adapted to rest at opposite sides of spokes, threaded bolts extending through the slots of the first-named projections, spoke-clamping plates carried by the said bolts and disposed in a plane inwardly beyond the inner ends of said arms, and nuts mounted on the bolts and opposed to the outer side of the carrying body.

1,374,940. CUTTING ATTACHMENT FOR HOSIERY-LOOPING MACHINES. JUNIUS A. MARTIN and ROBERT L. LEE, Durham, N. C.; said Lee assignor, by mesne assignments, of his right to Carrolina Automatic Machinery Company, Durham, N. C., a Corporation of North Carolina. Filed Dec. 8, 1919. Serial No. 343,262. 11 Claims. (Cl. 112—252.)

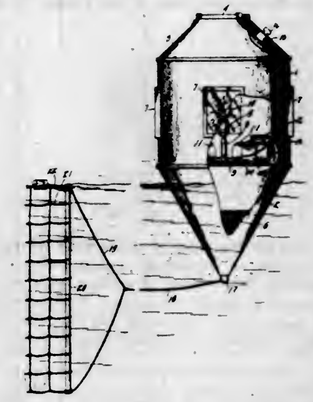


10. In a device of the character described, the combination of a supporting element adapted to be secured to a looping machine; a normally fixed blade adjustable toward and from the fabric supporting points of the looping machine; a rotary knife coöperating with the fixed blade; and a brush acting to draw the chain thread, between adjacent stockings, into operative relation with the knife and blade.

1,374,941. METHOD OF AND BATH FOR RETTING FIBROUS STRAW. JAMES M. MASSON, Duluth, Minn. Filed Jan. 12, 1920. Serial No. 350,978. 8 Claims. (Cl. 92—15.)

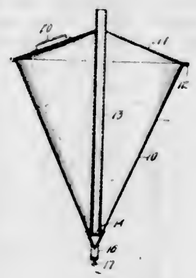
1. The method herein described of retting fibrous straw consisting in submerging and boiling the straw in a solution containing tri-phosphate of soda and sulfonated oils, and subsequently removing and washing the straw.

1,374,942. FISHING-NET BUOY. ODUM T. MELVIN, St. Andrews, Fla. Filed May 6, 1920. Serial No. 379,394. 2 Claims. (Cl. 9—8.3.)



1. A seining buoy comprising a cylindrical water and air-tight housing having tapered ends, a floor for the cylindrical portion, a plurality of transparent panels in the cylindrical portion, an electric light mounted upon the floor, and positioned to shine through the panels, a cell for supplying electricity to the light, a strap carried by the housing for removably securing the cell to the floor, said strap consisting of a flat band hinged at one end to the housing and adapted to be held in position at the other end by means of a turn button, substantially as described.

1,374,943. BUOY. ODUM T. MELVIN, St. Andrews, Fla. Filed June 7, 1920. Serial No. 387,136. 1 Claim. (Cl. 9—8.)

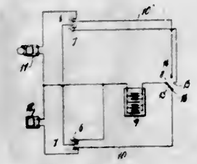


A buoy comprising, a body composed of cones of different taper having their bases secured together producing a single inner chamber, a cylindrical socket closed at one end inserted through the axis of one cone and extending along the axis of the other cone and having its closed end resting upon the inner wall of the other cone, the open end of the socket extending above the apex of the upper cone for receiving a flag staff, substantially as described.

1,374,944. INDICATING-SIGNAL FOR AUTOMOBILES. JOHN D. MULVEHILL, Seattle, Wash. Filed Dec. 17, 1919. Serial No. 345,657. 1 Claim. (Cl. 177—326.)

A direction signaling indicator comprising a pair of lamp fixtures, one upon each side of the vehicle, lamps of two different colors one of each color in each fixture and

visible from both front and rear of the vehicle, an audible electrically operated signal in series with one of said lamps, an audible electrically operated signal of a nature contrasting with said first mentioned signal in series with the lamp on the opposite side of the vehicle from and of



the same color as the lamp in series with which the first mentioned signal is connected, and a switch for selectively operating either lamp of similar color with its cooperating audible signal to indicate the proposed direction of a turn or for operating the two lamps of the other color to indicate a proposed stop.

1,374,945. METHOD OF CONTROLLING SUBTERRANEAN STREAMS. ED MURRAY, Lincoln, Nebr. Filed Apr. 25, 1919. Serial No. 292,531. 2 Claims. (Cl. 61—2.)



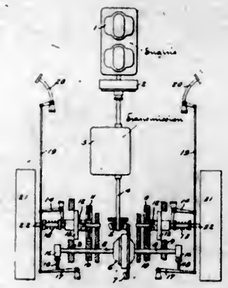
1. The method of controlling subterranean streams which consists in erecting a barrier across the path of flow of the stream below the surface of the earth and extending the barrier above the earth's surface, and tapping the barrier near the top thereof to provide a water supply.

1,374,946. DEEP-WELL-DRILLING DEVICE. LORAN E. NEBERGALL, Omaha, Nebr. Filed Apr. 28, 1919. Serial No. 293,313. 1 Claim. (Cl. 255—29.)



In a deep-well auger-stem having a long body-portion, and terminal portions adapted for rigid connection with a bit and other tools of a string, wing-forming members disposed upon the body of the stem in sections, each section of said members having a plurality of parts extending out radially of the stem-body and continued longitudinally thereof, and the radially extending parts being circumferentially interspaced in adjoining sections.

1,374,947. MOTOR-VEHICLE AND METHOD OF DRIVING SAME. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed June 21, 1916. Serial No. 105,306. 11 Claims. (Cl. 180—17.)



1. In a vehicle, traction members on opposite sides of the vehicle, means for propelling at least one of said members including means whereby the opposite traction member may turn differentially during straight forward movement of the vehicle, and means for insuring, during turning, propulsion of only the outer traction member upon only disconnecting said traction members from each other.

1,374,948. ELECTRICAL INDICATING DEVICE. RODOLPH STUART O'NEIL, London, England. Filed Mar. 1, 1920. Serial No. 362,418. 1 Claim. (Cl. 40—52.)

An electrical indicator comprising a casing having a single display opening, a single illuminating device behind said opening, magnetically operated color screens adapted to be pre-selected for interposition between the illuminating device and the display opening, and electro-magnetically operated indicating disks having indicia and adapted to be pre-selected and interposed between the color screen in operative position and the display opening whereby a pre-selected indication in a pre-selected color is displayed, substantially as specified.

1,374,949. CAMERA-CASE. GEORGE L. OSGOOD, Ayer, Mass. Filed Dec. 26, 1919. Serial No. 347,438. 2 Claims. (Cl. 150—7.)

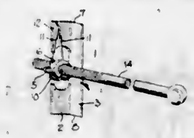
1. A camera case comprising a pouch of flexible sheet material having a lower end wall, elongated side walls connected by said end wall, and relatively narrow elongated edge walls secured to said lower end wall and side walls, and a rigid adjunct holder, rigidly backing the lower end wall, the lower portions of the side walls and the lower portions of the end walls, and forming the bottom of a camera-receiving space in the upper portion of the pouch, the backed portion of one of said edge walls being

provided with an opening and with a displaceable closure therefor, and the holder being provided with an ad-



junct-receiving socket, the mouth of which is arranged to be covered by said closure, means being provided for detachably securing the closure to the holder.

1,374,950. SPRING-TOGGLE. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry W. Newhall, Jr., executor of Henry W. Newhall, deceased. Filed Dec. 23, 1919. Serial No. 347,044. 4 Claims. (Cl. 85—3.)



4. A new article of manufacture for use with a toggle comprising a wire spring bent back on itself to form two arms, each of the arms being separated and bent back on itself to form a double U-shaped pocket with parallel sides to receive the nut of a toggle bolt, the two free ends of the wire spring being provided with means to engage a toggle head.

1,374,951. FUNGICIDE AND INSECTICIDE AND METHOD OF PRODUCING THE SAME. DAVID S. PRATT, Pittsburgh, Pa. Filed Oct. 11, 1919. Serial No. 330,130. 4 Claims. (Cl. 167—6.)

1. The method of producing a dry lime-sulfur composition containing a high percentage of active ingredients and of relatively uniform fineness, which comprises spraying a lime-sulfur solution in the form of a fine mist into a heated chamber and withdrawing the vapor formed from the chamber, the solids of the solution being thereby deposited in a condition of fine subdivision; substantially as described.

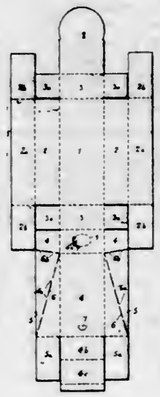
3. A fungicide and insecticide consisting of a dry lime-sulfur composition in the form of particles of practically uniform fineness and of approximately spherical contour requiring no further grinding, containing a high content of active ingredient readily soluble in cold water and a low percentage of insoluble material; substantially as described.

1,374,952. AIR-LIFT APPARATUS. EDWIN M. ROGERS, New York, N. Y. Filed Apr. 5, 1920. Serial No. 371,392. 21 Claims. (Cl. 103—84.)



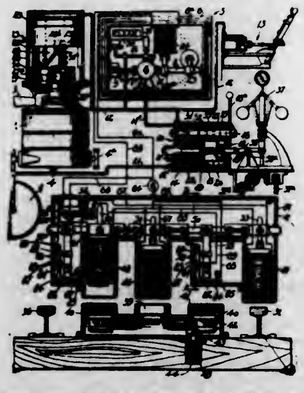
1. A regenerator apparatus for air-lifts comprising, in combination, a casing for connecting a lower uptake-conduit for delivering an aerated liquid column upwardly into the casing and an upper uptake-conduit for receiving re-aerated liquid from the casing, said regenerator having a lower de-aeration zone and an upper re-aeration zone, and intermediate to these two zones having an air-collecting chamber in position and adapted for collecting coalesced air-bubbles from said lower zone, and provided with means for comminuting and then delivering said collected air into said upper zone, and also having a separate passage-way for a continuously moving column of liquid from said de-aeration zone to said re-aeration zone, whereby a column of liquid mixed with relatively large air-bubbles may be regenerated without cessation of upflow, into a column of liquid mixed with relatively small air-bubbles composed of air previously segregated from said column.

1,374,953. RECEPTACLE FOR DISPLAY. BENJAMIN ROSENBERG, Brooklyn, N. Y. Filed Jan. 18, 1917. Serial No. 143,100. 15 Claims. (Cl. 206—44.)



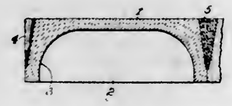
1. A receptacle having a body and a lid hinged thereto, the lid being adapted to be stood up on one end to support the body in display position, and means for holding the lid and the body in the desired relative locations.

1,374,954. ELECTROMAGNETIC TRAIN-CONTROL AND DANGER-INDICATING MEANS AND RECORDING MEANS. ALFRED L. RUTHVEN, Rochester, N. Y., assignor to Simplex Train Control Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 8, 1918. Serial No. 257,336. 10 Claims. (Cl. 246—202.)



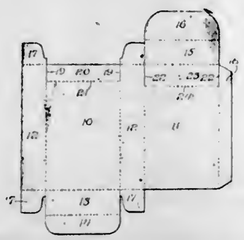
1. Vehicle controlling apparatus embodying a controlling device on the track having alternately movable armatures and a rock shaft with cranks for said armatures to actuate them.

1,374,955. CONCRETE BUILDING-BLOCK. JOHN M. SCHENK, deceased, Waterloo, Iowa, by Ella M. Schenk, administratrix, assignor to Ella M. Schenk, Waterloo, Iowa. Filed Apr. 22, 1920. Serial No. 375,827. 1 Claim. (Cl. 72—41.)



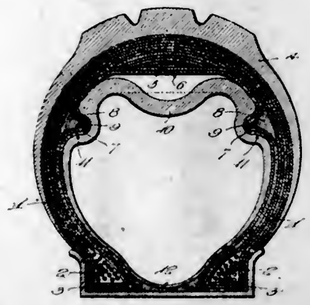
A building-block having in its under face a longitudinal trough with arcuate ends, and having in each outer end wall a recess having its upper end open to the top plane of the block and its lower end closed, said recess being gradually diminished in cross-sectional area longitudinally from its upper toward its lower end to maintain an approximately uniform thickness in that part of the block between it and said longitudinal trough.

1,374,956. END-OPENING CARTON. ANTHONY SCHNEIDER, Whippany, N. J., assignor to American Cigar Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 8, 1919. Serial No. 316,058. 3 Claims. (Cl. 229—17.)



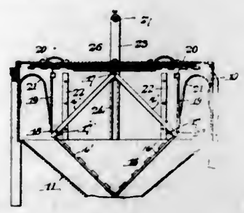
1. A carton having a closure for one end, comprising one short and one long side flap each outwardly foldable on lines below the carton top, the long side flap being sufficiently long to extend over the carton top and down below the fold line of the short side flap, the short flap being of such length that when slightly bent outwardly it serves as a guide to direct the long flap to its closed position between the fold line of the short flap and the carton contents.

1,374,957. PNEUMATIC TIRE. BENJAMIN C. SEATON, Nashville, Tenn. Filed Feb. 5, 1920. Serial No. 356,427. 7 Claims. (Cl. 152—13.)



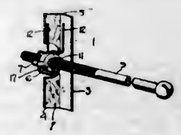
6. An inner tube having its tread portion thickened throughout its width and circumference and provided with continuous external shoulders bordering said tread portion for contact with ribs in a casing, said tread portion of the tube being inwardly bowed and having an inherent tendency to retain said bowed formation until inflated.

1,374,958. WASHING-MACHINE. JOHN W. SEIFERT, Houston, Tex. Filed Feb. 28, 1920. Serial No. 362,072. 3 Claims. (Cl. 68—37.)



1. In a washing machine, a casing, arms pivoted in spaced relation in said casing, a polygonal basket in said casing, hinge pins connecting the various sides of said basket, certain of the said pins being supported by the free ends of said arms, means normally forcing said arms inwardly, and means for expanding or collapsing said basket.

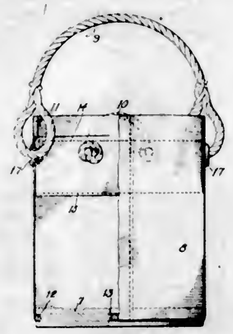
1,374,959. SPRING-TOGGLE. DANIEL R. SHERWOOD, Plainfield, and JOHN KARITZKY, Garwood, N. J., assignors to Henry B. Newhall, Jr., Plainfield, N. J., executor of Henry B. Newhall, deceased. Filed Dec. 23, 1919. Serial No. 347,039. 9 Claims. (Cl. 85—3.)



5. In a toggle the combination of a one piece head, having bearings for a nut, a nut mounted on said bearings

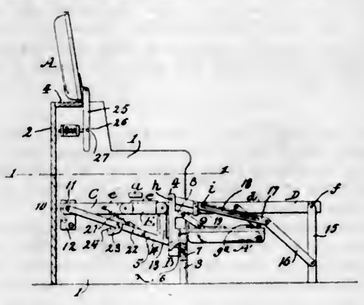
and a spring yieldingly embracing the nut, adapted to move with it and adapted to rock the one piece head, said spring having a portion adapted to receive a bolt.

1,374,960. COLLAPSIBLE TOOL-BAG FOR LINEMEN. EMANUEL F. SHIPMAN, Philadelphia, Pa., assignor to Industrial Products Company, a Corporation of Pennsylvania. Filed Apr. 17, 1920. Serial No. 374,525. 1 Claim. (Cl. 150—1.)



A lineman's tool bag comprising a rigid closed bottom, a flexible body portion having an open upper end, a hoop member surrounding the upper end and around which the flexible body portion is lapped, eyelets extending through the body portion in the lapped zone, insulating material covering said eyelets, a handle engaging said eyelets and an additional suspension device carried by said body, substantially as described.

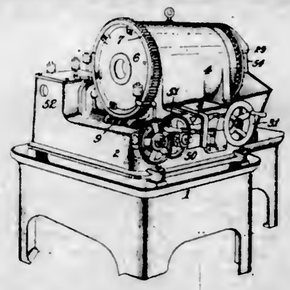
1,374,961. SOFA-BEDSTEAD. SOLMON SHUMSKY, Brooklyn, N. Y. Filed Feb. 7, 1920. Serial No. 357,074. 3 Claims. (Cl. 5—48.)



3. A sofa bedstead comprising a support, and a foldable mattress-carrying frame comprising an inner section having laterally extended pins, an outer section having laterally extending pins, an intermediate section, means pivoting said sections to each other, brackets for supporting said frame, slotted rods swinging from said brackets and engaging the pins of said outer section, connecting rods, and swinging legs, said connecting rods being connected between said slotted rods and swinging legs whereby movement of the outer swinging section operates them, substantially as shown and described.

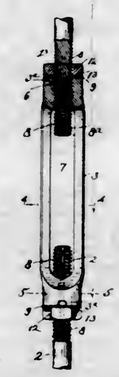
1,374,962. ROTARY MILLING AND SLOTTING MACHINE. OSCAR A. SMITH, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 9, 1919. Serial No. 309,641. 31 Claims. (Cl. 90—20.)

1. In a milling and slotting machine, the combination of rotary work holding means, a rotary shaft of relatively large diameter carrying said work holding means, a rotary cutter supported at one side of said shaft, means for feeding said work holding shaft sidewise toward and from



the cutter, and means for rotating the cutter and shaft and including a single belt driven differential speed pulley, the shaft at low speed as compared with the high speed of the cutter.

1,374,963. TURNBUCKLE. RALPH D. STEVENSON, Cleveland, Ohio, assignor to The Safety Nut & Bolt Company, Cleveland, Ohio, a Corporation of Delaware. Filed Mar. 15, 1918. Serial No. 222,572. 4 Claims. (Cl. 85—36.5.)

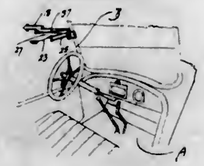


4. The combination with two oppositely disposed threaded members, each of said threaded members being provided with a plurality of grooves extending longitudinally with respect to the threaded portions of said members, an intermediate member having threaded openings which receive the threaded ends of the said threaded members, the ends of said intermediate member being provided with one or more depressions, a washer encircling each of the threaded members, said washer being provided with extensions which engage in the grooves formed in the said threaded members, and a nut upon each of the said threaded members and in position to be turned against a washer to hold the same against the head of the intermediate member, one or more depressions formed in each of said nuts, portions of each of said washers being adapted to be bent to occupy one or more of the depressions in the head of the intermediate member and in an adjacent nut, whereby the parts are locked against relative rotation.

1,374,964. AUTOMOBILE-SIGNAL. GUY J. STREETER and WILLIAM O. LILLEMOEN, Monroe, Wash. Filed June 8, 1920. Serial No. 387,422. 6 Claims. (Cl. 116—47.)

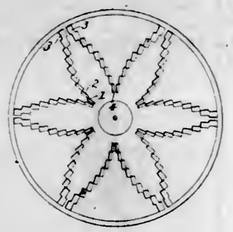
1. In an automobile signal, the combination of a supporting base; an arm oscillatively mounted upon said base; an indicating arrow; a pin pivotally connecting said indicating arrow to the arm, said pin provided with a crank

arm projecting beyond a side of the arm; a second pin laterally projecting through said arm near the pivot end of the arm, said pin having a crank arm and projecting beyond a side of the arm; a rod connecting said crank



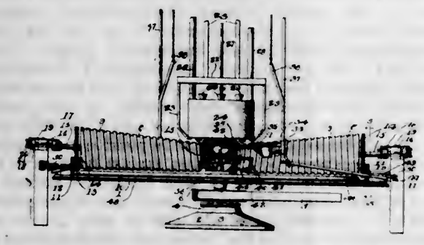
arms; an operating rod reciprocatingly mounted on the supporting base; one end of said rod being pivotally connected to the second mentioned pin, to rotate the arrow upon torsional movement of the operating rod.

1,374,965. APPARATUS FOR TREATING LIGHT AND SIMILAR RAYS. ALFRED O. TATE, New York, N. Y. Filed Jan. 24, 1920. Serial No. 353,902. 9 Claims. (Cl. 88—1.)



1. Rotary disks for treating light and similar rays provided with series of figures having characteristics as concerns the effect on said rays, different from those of the main body of the disk and arranged along lines which form substantially continuous undulations between the center and circumference of the disk, and having the same intermingling effect in successive circumferential zones when the disk is rotated.

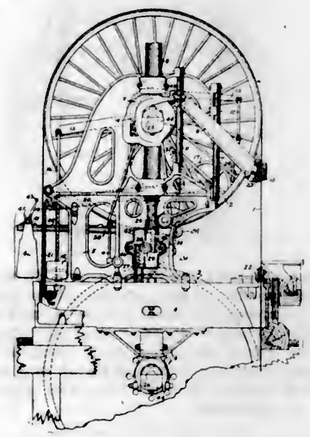
1,374,966. MACHINE FOR MAKING SPHERICAL ARTICLES. GAROLD J. THOMPSON, Clarksburg, W. Va., assignor to Glamar Machine Company, a Corporation of West Virginia. Filed Aug. 25, 1919. Serial No. 319,551. 24 Claims. (Cl. 49—5.)



1. In a machine for making spherical articles from a molten mass, the combination of a turntable having a plurality of convolute shaping channels in its upper face, a roll mounted above said table to rotate on a substantially horizontal axis and having spiral shaping channels registering with the channels in the turntable, means for imparting motion to said turntable and roll, a molten mass container superposed above said table, and feeding means for delivering portions of said mass intermittently to the shaping channels of the turntable.

21. A feeding mechanism for machines for making spherical articles comprising a circular casing, a plurality of cylindrical hoppers spaced within said casing and from the wall thereof, means for delivering material to each of said hoppers, means for introducing a heating medium to said casing, and means for discharging the material in molten state from each of said hoppers.

1,374,967. BAND-MILL. WILLIAM HENRY TROUT, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 31, 1917. Serial No. 172,092. 9 Claims. (Cl. 143—27.)



1. In combination, a frame, a band wheel, a band saw engaging said wheel, means for supporting said wheel, a pair of relatively movable racks associated with said frame and with said wheel supporting means respectively, a laterally movable pinion coacting with said racks, and movable means for holding said pinion in operative relation to said racks.

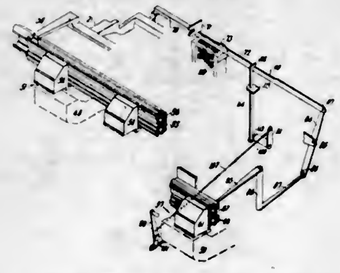
1,374,968. METHOD OF TREATING LIGHT-METAL ALLOYS. WILLIAM R. VEAZEY, Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Jan. 21, 1920. Serial No. 353,097. 7 Claims. (Cl. 29—148.)

1. The method of treating a light metal alloy in which magnesium is the predominant constituent, which consists in heating the same to a temperature of from 500° to 700° F., and then forging or similarly working the same.

1,374,969. COMBINED TYPEWRITING AND COMPUTING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1918. Serial No. 264,300. 13 Claims. (Cl. 235—59.)

1. In a combined typewriting and computing machine, the combination of a typewriter carriage, a cross-totalizer, pick-up devices on said carriage, an intermediate member spring-pressed upwardly to enable engagement thereof by said pick-up devices, means whereby said intermediate member when in engagement with one of said pick-up devices will cause the cross-totalizer to be advanced with the carriage, a lever pivoted on the typewriter frame near the front thereof, and means actuated by said lever, including a member having a hook overlying said intermediate member, to withdraw said intermediate member from the path of said pick-up devices.

12. In a combined typewriting and computing machine, in combination, a carriage, a column-totalizer to travel therewith, computing mechanism for said column-totalizer, a cross-totalizer, pick-up mechanism to cause said cross-



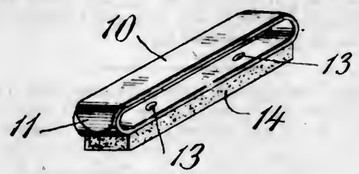
totalizer to travel with said carriage, means to silence said computing mechanism, and means, controlled by said silencing means, to render said pick-up mechanism ineffective.

1,374,970. GARMENT MATERIAL. EDITH V. C. WEYAND, New York, N. Y. Filed June 26, 1920. Serial No. 392,140. 5 Claims. (Cl. 41—17.)



1. A garment material composed of a strip of textile fabric bearing thereon or having incorporated therein successively recurring grouped designs or ornamentations, each particular group being composed of various motifs, each motif being characteristic of the particular portion of the completed garment the motif is to occupy.

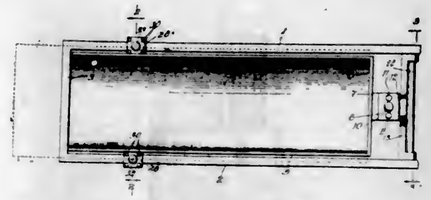
1,374,971. LINGERIE-CLASP. DAVID WIENER, New York, N. Y. Filed Oct. 2, 1919. Serial No. 327,948. 4 Claims. (Cl. 241—12.)



2. In a device for holding in place upon the shoulder of a wearer the strap of an undergarment, the combination of a friction member and means associated therewith for connecting said member to the strap of the undergarment so that the strap will not slip off the shoulder, said means being operable to permit ready application of the friction member to the strap of the undergarment and ready detachment therefrom.

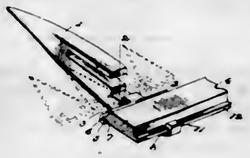
1,374,972. MOUNTING FOR TANKS AND THE LIKE. GEORGE M. WILLIS, Chicago, Ill., and LEONARD V. NEWTON, New York, N. Y., assignors to George M. Willis, Chicago, Ill. Filed Apr. 6, 1920. Serial No. 371,656. 3 Claims. (Cl. 280—5.)

1. In combination, a supporting frame including a pair of longitudinal frame members, a tank carried by the frame, a bracket member mounted to swing longitudinally about an axis extending transversely between the longitudinal frame members of the supporting frame, the mounting of the tank upon the frame including a universal supporting connection between one end of the tank and said longitudinally swinging bracket member, said universal supporting connection together with the longitudi-



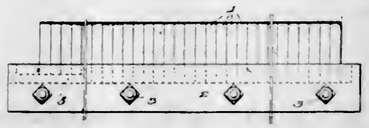
nal swinging of said bracket about the transversely extending axis carrying the same compensating for relatively great distortion, disalinement and weaving between said frame and said tank, and permitting variation in the position of the supporting connection with the frame.

1,374,973. GUARD-FINGER AND FINGER-BAR. THEODORE WITTE, Makoti, N. D. Filed May 1, 1920. Serial No. 378,229. 3 Claims. (Cl. 56—308.)



1. The combination of a finger bar having a socket in its under side, a guard finger disposed below the finger bar, a fastening member permanent upon the guard finger and having its front and rear ends in overhanging engagement with the finger bar, and a stud on said fastening member engaging the socket in the finger bar.

1,374,974. METHOD OF MAKING PIANO-HAMMERS. IGNATIUS WROZINA, Bridgeport, Conn., assignor of one-third to Otto J. Diehl and one-third to Martin A. Heanue, Bridgeport, Conn. Filed Aug. 2, 1920. Serial No. 400,770. 4 Claims. (Cl. 84—254.)

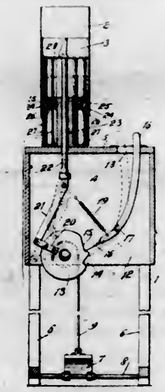


1. The method of making piano hammers, consisting in assembling the hammer bodies within a holder, affixing a continuous strip of felt facing to the hammer bodies, toning the entire striking area of the strip by penetrating the same with toning needles, and then separating the hammer bodies and the strip into individual hammers.

1,374,975. COLLAR-PACKAGING MACHINE. WILLIAM A. ZEIDLER, New York, N. Y. Filed Oct. 3, 1919. Serial No. 328,323. 5 Claims. (Cl. 223—55.)

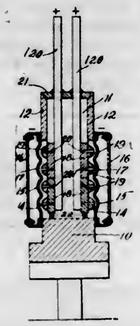
1. In a machine of the class described, a series of fingers and means for pivotally mounting the same, a disk adapted to move between said fingers and be held at different

levels, and means for mounting the same so that a tube may be placed over said fingers and the disk raised or



lowered according to the depth of the collar receiving space to be occupied.

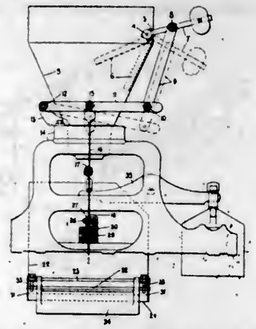
1,374,976. ELECTROLYTIC CELL. HERBERT I. ALLEN and KENT R. FOX, Portland, Me., assignors to Electron Chemical Company, Portland, Me., a Corporation of Maine. Filed June 1, 1920. Serial No. 385,772. 2 Claims. (Cl. 204—5.)



2. In an electrolytic cell for the electrolysis of saline solutions, an anode consisting of one or more flat carbon plates, and spaced parallel carbon ribs thereon, the faces of the ribs and the faces of the plates between the ribs being active.

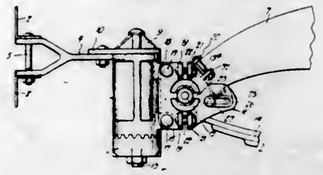
1,374,977. SCALE FOR AUTOMATICALLY WEIGHING GRANULAR OR LIKE SUBSTANCES. ARTHUR BARRACLOUGH, Birmingham, England, assignor to W. & T. Avery Limited, Birmingham, England. Filed Aug. 26, 1918. Serial No. 251,555. 4 Claims. (Cl. 249—1.)

1. The combination with an automatic weighing scale of the kind herein referred to, of a supply hopper, a weigh hopper, a weigh hopper discharge door, and means whereby the amount of material in the supply hopper controls the operation of the weigh hopper discharge door, so that when the supply falls below a predetermined minimum the said discharge door is maintained in the open position and the normal operations of the scale are suspended until



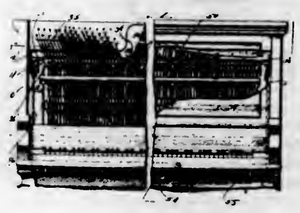
the supply of material has been increased whereupon the operations of the scales are automatically restarted.

1,374,978. AUTOMOBILE-BUMPER. LEROY BAUMGARTL, Chicago, Ill. Filed Feb. 3, 1921. Serial No. 442,045. 14 Claims. (Cl. 293—55.)



5. In a bumper, the combination of an impact bar, a supporting member located forwardly of the end of a vehicle frame member, and attaching members comprising pairs of companion plates adapted to be clamped on opposite sides of the end of said vehicle frame member, each pair of said plates being spaced apart on opposite sides of a pivot bolt passing through the end of said frame member, and provided with lugs adapted to bear against said pivot bolt at diametrically opposed points, and bolts connecting the plates of each pair and arranged on opposite sides of their respective lugs.

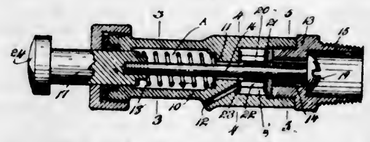
1,374,979. PLECTRUM ATTACHMENT FOR PIANOS. FRANK BINGAMAN, Parkersburg, W. Va. Filed Oct. 23, 1919. Serial No. 332,729. 5 Claims. (Cl. 84—258.)





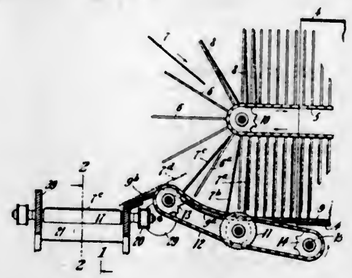
1. A plectrum attachment for a piano comprising end supports adapted for attachment to the end walls of the interior of the casing of a piano, said supports being vertically slotted, a longitudinal bar having its ends slidable in the slots of the supports, piano-string-picking elements on the said bar arranged to be struck by the hammers of the piano, vertically slidable means on the supports engaging the said bar and a manually operable yoke having its arms operatively engaged with the vertically slidable means for raising and lowering the said bar to dispose the string picking elements in and out of the path of the said hammers.

1,374,980. DISPENSING-VALVE. CHARLES P. BOSSERT, Milwaukee, Wis. Filed Dec. 16, 1919. Serial No. 345,418. 7 Claims. (Cl. 221—114.)



1. A valve structure of the class described comprising a storage chamber, a valve chamber in communication with the storage chamber, a valve member reciprocable in the valve chamber, inlet and outlet ports for the valve chamber, a plunger having a stem slidable in the measuring chamber, said valve being slidably mounted on said stem and operable by the flow of liquid upon reciprocation of the plunger to open and close said ports successively.

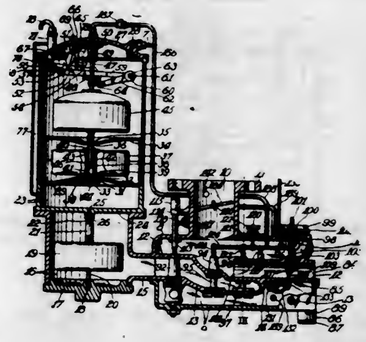
1,374,981. DELIVERY MECHANISM. MARCUS D. BOUGHTON, Jefferson, N. Y. Filed Dec. 4, 1920. Serial No. 428,310. 10 Claims. (Cl. 271—76.)



4. In sheet delivery mechanism the combination of a traveling conveyer adapted for advancing sheets on edge, a toothed wheel rotated at a peripheral speed in excess of that of the traveling conveyer and adapted to engage the lower edges of successive sheets advanced by said conveyer and lift and advance said sheets away from the engaging portions of said conveyer respectively, an endless chain driven at a speed in excess of that of the traveling conveyer and adapted to engage and advance the lower edges of successive sheets after they are advanced by said wheel, and a plurality of rotating rolls forming a roller table adapted for receiving the sheets from the previous advancing means and further advancing said sheets.

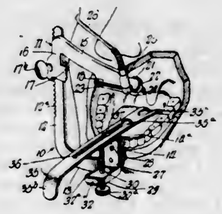
1,374,982. [WITHDRAWN.]

1,374,983. FUEL-CONTROL SYSTEM FOR EXPLOSION-ENGINES. MARTIN C. BRIGHT, Indianapolis, Ind. Filed June 30, 1919. Serial No. 307,730. 19 Claims. (Cl. 158—36.)



1. An explosion engine fuel-control system including a vacuum tank having two connected chambers therein arranged one above the other, and two floats movable in the chambers respectively and coöperating each with the other to control admission of liquid from the upper to the lower one of the two chambers.

1,374,984. RETRACTOR. WILLIAM J. CAMERON, Chicago, Ill. Filed Sept. 10, 1919. Serial No. 322,911. 9 Claims. (Cl. 128—13.)

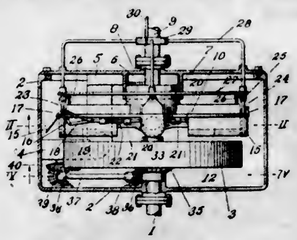


1. A retractor comprising in combination, top and bottom frame members, each including a horizontal arm, said arms terminating in vertically alined, oppositely disposed hooks, means providing a vertical adjustment between said horizontal arms, a tongue depressor associated with the hook on one of said frame members, a supporting member for said depressor connected to said frame member to tilt in a vertical plane, a yielding stud on said supporting member for frictionally holding said depressor, but permitting longitudinal adjustment of said depressor with reference to said supporting member, and a screw carried on said frame member for imparting a vertical tilting adjusting movement to said supporting plate.

1,374,985. FLUID TRANSMISSION AND CLUTCH MECHANISM. RENICK H. CARSON, Kansas City, Mo.; Essie C. Carson administratrix of said Renick H. Carson, deceased. Filed June 27, 1918. Serial No. 242,199. 9 Claims. (Cl. 192—60.)

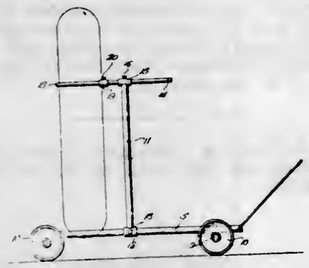
1. A combined fluid transmission and clutch, comprising a housing, a driving shaft projecting therein, a series of cylinders rotatable together around the same axis as said shaft and having intake ports intermediate their ends for receiving fluid from the housing, manually-controlled valves for said cylinders outward of said ports, valves for said ports, reciprocating pistons in said cylinders actuated by said drive shaft and adapted when moving outward to force fluid through the outer ends of the cyl-

inders when said manually-controlled valves are open and against said valves when the same are partly or wholly



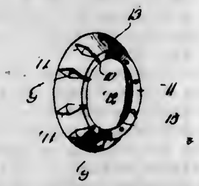
closed, and means for closing the port-controlling valves as the pistons move outward and for opening said valves as the pistons move inward.

1,374,986. TRUCK. FREDERICK ELI CARTER, Yuma, Colo. Filed July 17, 1920. Serial No. 396,951. 5 Claims. (Cl. 280—61.)



1. A truck of the character described comprising a wheeled base consisting of a pair of spaced tubular side members and a pair of telescopic tubular end members, a pair of spaced standards, means for rotatably and adjustably supporting said standards upon the respective side members of said base including a sleeve carried by the lower end of each of said standards and embracing the adjacent side member, and a set screw for each of said sleeves for securing said standards in adjusted position, means carried by the standards for retaining the wheel on the truck including a frame consisting of a pair of spaced longitudinal bars, a pair of spaced telescopic cross bars carried by said longitudinal bars, one of said cross bars being longitudinally adjustable on said longitudinal bar, sleeves carried by the upper ends of said standards and embracing the longitudinal bars of said frame, whereby said longitudinal bars are rotatably and adjustably carried by said standards, and a set screw for each of said last-mentioned sleeves whereby said longitudinal bars may be clamped in adjustable position.

1,374,987. ROLLER-BEARING. LEO S. CHRISTOPHERSON, Spokane, Wash. Filed May 13, 1920. Serial No. 380,963. 1 Claim. (Cl. 64—62.)



In a roller bearing, the combination with a cup member and a cone member having obliquely disposed complementary grooves, each groove having opposed faces of differing angularity, a cage of resilient material in the form of a truncated cone located between the members and having perforations and edge flanges, and double conical rollers in said cage having end bearing points adapted to be snapped into and retained in openings in said flanges.

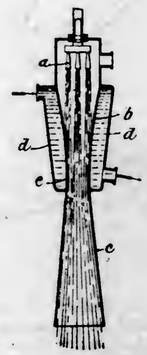
1,374,988. BALL-BEARING. ELISHA H. COOPER, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 19, 1920. Serial No. 417,981. 2 Claims. (Cl. 64—36.)



1. In a single row three-point ball bearing of the unitary or assembled type, two bearing rings, one of said rings being formed of two ring-like sections connected by welding, a ball race way groove in one of the rings, two separately spaced ball tracks formed on the two sections of the other ring for engaging a row of balls on opposite sides, a single row of balls between said rings, that part of the two section bearing ring between said ball tracks being out of contact with said balls.

1,374,989. [WITHDRAWN.]

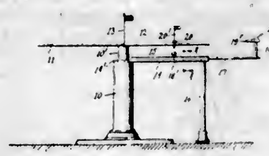
1,374,990. STEAM-EJECTOR. ALBERT DELAS, Paris, France, assignor to Delas Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 31, 1918. Serial No. 260,600½. 5 Claims. (Cl. 230—13.)



1. The process of ejecting a fluid which consists in passing a motive fluid through a diffuser, and condensing that portion of the motive fluid which is in excess of that required to fill the neck portion of said diffuser.

1,374,991. GAME APPARATUS. HANS DRATSCHKE, Brooklyn, N. Y. Filed July 23, 1920. Serial No. 398,525. 6 Claims. (Cl. 46—59.)

1. A game apparatus comprising a circular board carrying objects to be hit, an aiming device movable relatively to the board around the center thereof and also movable in and out, and a striker movable in unison with said

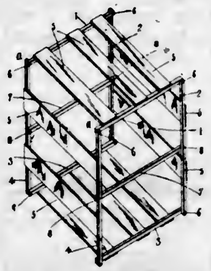


aiming device circumferentially and radially and also adapted to be moved toward the board to hit objects thereon.

1,374,992. ADHESIVE CEMENT AND PROCESS OF MAKING SAME. THOMAS EDWARDS, Milton, Mass. Filed July 27, 1917. Serial No. 183,111. 4 Claims. (Cl. 87—17.)

1. A cement consisting of rubber, dextrin, a fluid solvent for the rubber, and water as a solvent for the dextrin.

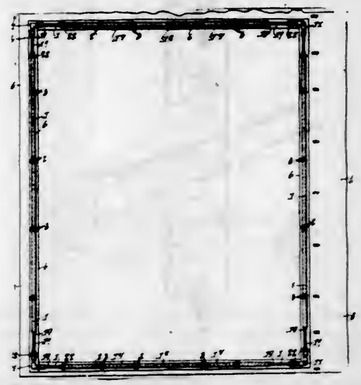
1,374,993. COLLAPSIBLE CRATE, BOX, AND THE LIKE. JAMES ELLIS, London, England. Filed Apr. 10, 1918. Serial No. 227,625. 1 Claim. (Cl. 217—15.)



In a collapsible crate the combination of a frame comprising four rectangular parts forming top, bottom and side portions the top being adapted to serve as a lid or cover for the crate, each rectangular part being formed of two spaced bars connected by slats the extremities of the bars of the top and bottom portions fitting between the extremities of the bars of the side portions; hinges for connecting said portions to each other whereby said portions may be laid in a flat condition or folded upon each other one pair of said hinges being detachable; and detachable end parts formed of spaced bars connected by slats said bars bearing laterally against the bars of the side portions, the lower bars of said end parts bearing on the bars of the bottom portion while the upper bars of said end parts serve as rests for the bars of the top or lid portion when said top or lid portion is in the closed position, the end parts being detachably secured to said frame.

1,374,994. KNOCKED-DOWN OR PORTABLE STRUCTURE. GEORGE ADAM FAIK, Milwaukee, Wis. Filed Aug. 25, 1920. Serial No. 406,001. 10 Claims. (Cl. 135—4.)

8. In a tent structure, a section comprising a rectangular frame and a fabric sheet to which the frame is adapted to be attached, said frame comprising corner fixtures and poles detachably interlocked with said fixtures, each of said poles comprising a series of tube sections and a series of rod sections slidably fitting in the tube sections and flexible joints between the respective rod sections, means securing said tube sections to said fabric sheet against displacement with the opposing ends of adjacent tube sections separated to leave folding places for the fabric, means by which the rod lengths may be slid in the tube as a unit to bring the joints of the rod either



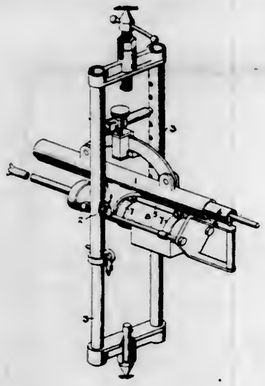
wholly within the tube sections or wholly at the spaces between the ends of the same correspondingly as the rod is in the locked or unlocked position, means for holding the rod sections fast in the locked position, said means comprising a stud on certain rod lengths, certain tube lengths having a bayonet slot and a member for holding said stud in the bayonet slot in the locked position.

1,374,995. POLE FOR FOLDABLE LADDER AND STRETCHER STRUCTURES. GEORGE ADAM FAIK, Milwaukee, Wis. Filed Sept. 23, 1920. Serial No. 412,173. 6 Claims. (Cl. 228—29.)



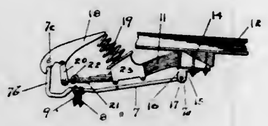
5. A ladder comprising poles, each consisting of a series of tubes adapted to be held in endwise alinement with their ends in contact, rod sections slidably fitting within said tubes and linked together, rod and tube interlocking devices whereby to hold the rod sections with their joints inclosed between the ends of the tube sections and to hold the tube sections in end to end contact, rungs extending between corresponding tube sections of opposite poles, and socket members at the top of the ladder into which the poles are removably fitted, substantially as shown and described.

1,374,996. FEED DEVICE FOR ROCK-DRILLS. SEQUIN FISHER, Johannesburg, Transvaal, South Africa. Filed Apr. 4, 1919. Serial No. 287,399. 6 Claims. (Cl. 255—45.)



1. A feed device for a hammer drill, comprising a cradle on which the drill is slidably mounted for feeding movement; a feed spring adapted to move the drill forward a substantial distance; means in connection with the spring enabling the spring to be deformed manually and independently of the drill to cause it to feed the drill; and means for repeatedly anchoring said last-mentioned means to the cradle in its various progressing positions.

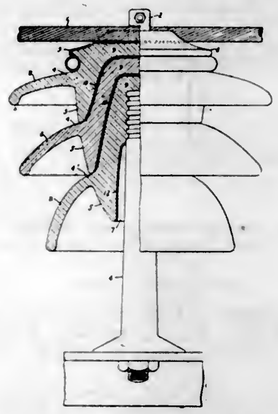
1,374,997. MOUNTING FOR SHOCK-ABSORBERS. CLAUD J. FORD, Portland, Oreg., assignor to S. L. Savidge, Portland, Oreg. Filed Apr. 19, 1919. Serial No. 291,379. 9 Claims. (Cl. 267—17.)



6. A mounting for a shock absorber comprising a plate having an arm extending therefrom, said plate being adapted to be secured to the axle of a vehicle, said arm being inclined upwardly with respect to said plate and provided at its end with a transverse sleeve, said plate having an extension offset oppositely to the inclination of said arm, said extension at its extremity being turned upwardly and constituting means adapted to have attached thereto the plate carrying the lever of a shock absorber, a second plate adapted to be secured to and carried by the vehicle body and having spaced ears embracing said sleeves and a pivot bolt carried by said ears and lying within the sleeve.

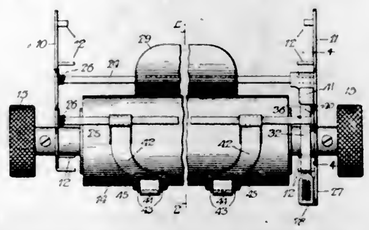
1,374,998. INSULATOR. CHARLES LE G. FORTESCUE, Pittsburgh, and GEORGE I. GILCHREST, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 14, 1918. Serial No. 217,221. 20 Claims. (Cl. 173—318.)

7. An insulator for disposition between two members of different potential comprising means for directing the electrostatic field therebetween to have a substantially bowl shape and a plurality of superposed nested insulating members having portions coöperating to form a subdivided



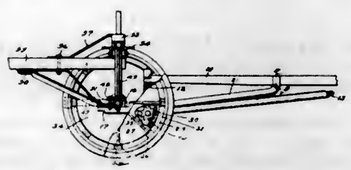
single main body structure substantially conforming to said field of bowl shape, and petticoat portions conforming to equi-potential surfaces in said field.

1,374,999. COMBINED PAPER FEED AND FINGER RELEASING MECHANISM FOR TYPEWRITERS. MAX GARBELL, Chicago, Ill., assignor to Garbell Typewriter Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1919, Serial No. 347,477. Renewed Feb. 24, 1921. Serial No. 447,556. 8 Claims. (Cl. 197—138.)



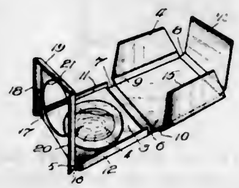
1. A device of the class described, consisting of a frame, a platen rotatably mounted thereon, paper supporting and feeding means mounted to swing about a common fixed axis located above the platen on said frame and extended under the platen, paper holding means pivotally mounted on the frame at a point above the platen and extended over the same, and means connecting the paper supporting and feeding means and the paper holding means for simultaneously actuating them from the platen.

1,375,000. TRUCK AND TRACTOR ATTACHMENT FOR AUTOMOBILES. SAMUEL GLENN, Seattle, Wash. Filed July 21, 1919. Serial No. 312,440. 4 Claims. (Cl. 180—16.)



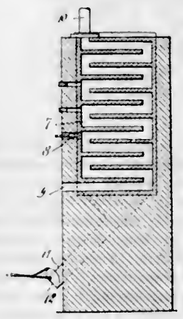
1. The combination with a motor vehicle attachment which includes a transverse auxiliary axle having wheels on each end and provided adjacent each end with a forwardly projecting bar that is arranged to be connected with the frame of a motor vehicle, of a yoke arranged to span the central portion of said auxiliary axle and pivotally connected therewith at each end whereby said yoke may occupy a substantially vertical position for supporting a load or a substantially horizontal position for pulling a load.

1,375,001. PAINT-PACKAGE. JOHN W. HASBURG, Chicago, Ill. Filed June 14, 1920. Serial No. 388,734. 4 Claims. (Cl. 41—4.)



1. A package comprising a palette, a cover overlying the palette, a blank folded about said palette and its cover to form an inclosing carton therefor, means lying between the marginal portions of the cover and the overlying wall of the carton and pressing the cover against the palette, said cover being provided with three flaps adapted to be folded over the bottom face of the package, and a single wafer for holding said flaps against unfolding.

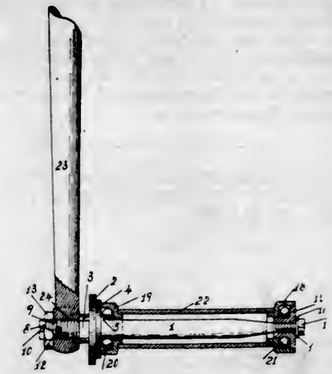
1,375,002. TREATMENT OF ORES. JULES HECTOR HIRT, El Paso, Tex., assignor to Alvarado Mining and Milling Company, New York, N. Y., a Corporation of Maine. Filed Jan. 24, 1920. Serial No. 353,821. 7 Claims. (Cl. 75—17.)



1. The method of chloridizing ores, metallurgical products and the like, which comprises heating a confined body of the same intermediate its ends to a temperature appropriate to the chloridizing, and introducing the chloridizing agent to the heated ore in a gaseous or vapor form.

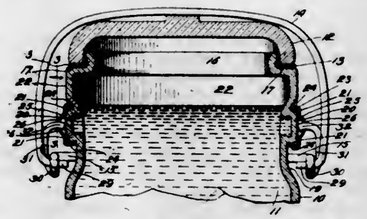
1,375,003. PEDAL-PIN. JAMES INGELS, Springfield, Ill. Filed Oct. 23, 1920. Serial No. 419,117. 2 Claims. (Cl. 208—70.)

1. A pedal pin comprising a cylindrical body having at its crank end a ball cone; a shoulder member having a circular periphery conformed to the inner surface of relatively large ball cups and a flat face adapted to co-act with the outer rim of medium ball cups; a set off member having a circular periphery conformed to the inner surface of medium ball cups, and a flat surface adapted to co-act with the outer rim of small ball cups; a member having



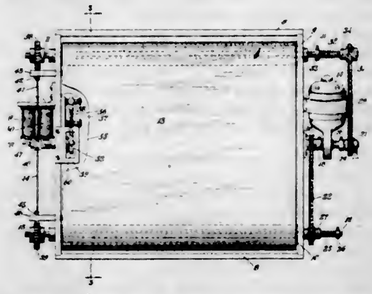
flat opposite sides to receive a wrench; an inner and an outer screw member; a groove between said screw members; and a reduced screw at the free end of the body.

1,375,004. JAR AND OTHER RECEPTACLE. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y. Filed May 29, 1920. Serial No. 385,131. 2 Claims. (Cl. 215—37.)



1. A jar or other receptacle having on opposite sides of its neck-portion outwardly projecting lugs whose peripheral walls converge inwardly and present undercut surfaces, combined with sheet metal caps conforming to the shape of said lugs and having peripheral flanges which are crimped and converge inwardly and sprung upon and interlocked with said lugs, said caps having in their faces bearing openings to receive the ends of a wire bail.

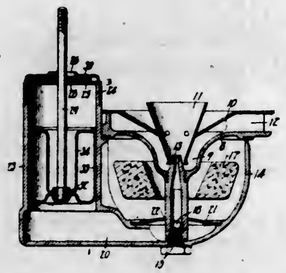
1,375,005. DISPLAY APPARATUS. CHARLES C. JAMES, New York, and GEORGE C. JAMES, Yonkers, N. Y. Filed May 8, 1920. Serial No. 379,697. 17 Claims. (Cl. 40—31.)



1. A display apparatus having in combination two rolls, a display sheet adapted to be wound upon and unwound

from said rolls respectively, a motor for driving both rolls, a yieldable driving connection between each roll and the motor, clutches for connecting the motor with said yieldable driving connections respectively for driving one roll or the other, and positively acting stopping means acting positively on the roll side of the yieldable driving connections for positively stopping the rotation of the rolls responsive to the deënergization of the motor without undue shock on the motor parts.

1,375,006. CARBURETER. CHESTER F. JOHNSON, Detroit, Mich. Filed Sept. 7, 1915. Serial No. 49,144. 5 Claims. (Cl. 261—37.)



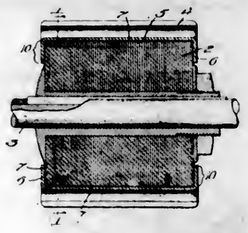
1. A carbureter comprising in combination, a mixing chamber, a fuel nozzle arranged to discharge fuel into the mixing chamber, a fuel reservoir, a diaphragm dividing the latter into a main portion and an auxiliary portion, said nozzle extending through the main portion and into the auxiliary portion and being in communication with the latter, and a piston arranged to be projected into the auxiliary portion whereby fuel may be rapidly discharged therefrom through the nozzle.

4. A carbureter comprising in combination a mixing chamber, a fuel nozzle arranged to discharge fuel into the mixing chamber, a throttle valve for controlling the flow of mixture through the chamber, a fuel reservoir comprising a main portion and an auxiliary portion, means comprising a valveless port for admitting fuel from the main portion to the auxiliary portion of the reservoir, means for admitting fuel directly to said nozzle from said auxiliary portion only, said last mentioned means offering less resistance to the flow of fuel than does the means for admitting fuel to the auxiliary portion, and manually actuated positive means for increasing the flow of fuel to said nozzle as the throttle valve approaches open position.

5. A carbureter comprising in combination, a mixing chamber, a fuel nozzle arranged to discharge fuel into the mixing chamber, a fuel reservoir comprising a main portion and an auxiliary portion separated by a wall, means comprising a valveless port for admitting fuel to the auxiliary portion, said auxiliary portion only being directly connected to the interior of the nozzle, and means independent of the suction of any engine with which the carbureter may be associated, whereby fuel is expelled from said auxiliary portion into the nozzle.

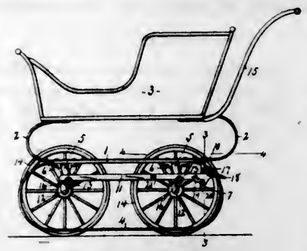
1,375,007. INSULATED SQUIRREL-CAGE WINDING. AUSTIN KIMBLE, Wausau, Wis., assignor to Marathon Electric Mfg. Company, Wausau, Wis., a Corporation of Wisconsin. Filed May 12, 1919. Serial No. 296,648. 2 Claims. (Cl. 172—120.)

1. The method of forming a squirrel cage form of dynamo-electric device, which consists in coating a magnetic core with wax, then applying a coating of conducting material to the core over areas to be occupied by the end rings and bars of the squirrel cage, then applying an electrodeposit of conducting metal to the coated areas, then



removing the wax, and finally applying insulating material between the core and the electrodeposit, in place of the wax removed.

1,375,008. CONVERTIBLE WHEEL OR SLEIGH VEHICLE. FRANK B. KLOCK, Little Falls, N. Y. Filed Apr. 29, 1919. Serial No. 293,550. 4 Claims. (Cl. 280—11.)

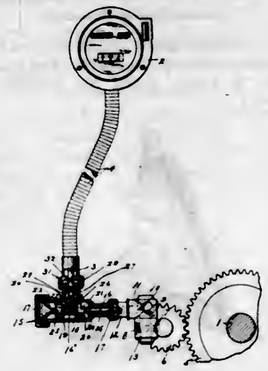


1. In a convertible wheel or sleigh vehicle, the combination of front and rear axles having opposite end and intermediate crank-arms, wheels journaled on the end crank arms, a frame having journal bearings engaging both axles at opposite ends of the intermediate crank arm, and having its rear end provided with a vertical slot, a pair of runners having journal bearings engaging both axles between the intermediate crank arms and the end crank arms, and a shifting bar having journal bearings engaging the intermediate crank arms of both axles, and having its rear end extended through the slot in the rear end of the frame and provided with shoulders in longitudinally spaced relation for engaging the walls of said slot to hold the wheels and runners in different relative positions of adjustment.

1,375,009. DRIVING MECHANISM FOR SPEEDOMETERS. PALMER NASH, Colfax, N. D. Filed Jan. 6, 1919. Serial No. 269,804. 1 Claim. (Cl. 74—7.)

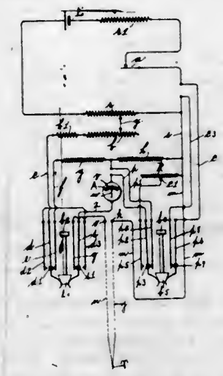
The combination with a driving member and a driven member adapted to be rotated either forward or backward, of driving connections between said two members including a shaft, a gear, a pair of connected gears loosely mounted on the shaft with freedom for axial movement thereon, a cam surface and a shoulder on the hub of each gear of said pair, said cam surfaces and shoulders being reversely formed, and pins carried by the shaft arranged

to alternately engage said cam surfaces and alternately move the gears of said pair into and out of mesh with



said gear and also to alternately engage said shoulders to rotate said pair of gears with the shaft.

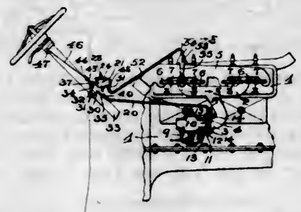
1,375,010. ELECTRICAL MEASURING APPARATUS. EDWIN F. NORTHRUP, Princeton, N. J., assignor to Pyrolectric Instrument Co., Trenton, N. J., a Corporation of New Jersey. Filed July 15, 1918. Serial No. 244,919. 10 Claims. (Cl. 73—32.)



1. The combination with a resistance, of a deflection instrument and a source of electro-motive-force of unknown value connected in series with each other in a path in parallel to a path including said resistance, means for passing through said resistance a current of magnitude causing therein a fall of potential equal to the unknown electro-motive-force of said source, means for disconnecting said source of electro-motive-force of unknown value and for connecting said deflection instrument in a circuit relation causing said instrument to produce a deflection indicative of the value of the unknown electro-motive-force, means for connecting said source of electro-motive-force of unknown value and said deflection instrument in an independent circuit, and means for adjusting the resistance of said independent circuit to a value at which said deflection instrument will indicate the value of the unknown electro-motive-force of said source.

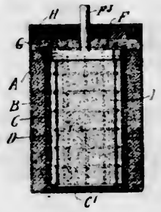
1,375,011. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. EDMUND PELTOWITZ, West Orange, N. J. Filed Apr. 22, 1919. Serial No. 291,869. 11 Claims. (Cl. 123—180.)

1. An attachment for internal combustion engines adapted for use as a primer, fuel-heater, economizer, or vaporizer, comprising a chambered body, a chambered extension located upon the outer side of said body, said chambered extension being provided with an inlet, said body being also provided with an outlet having a valve-seat, a valve-body normally located upon said valve-seat, a clamping means connected with said body for its attachment to the steering-rod casing of a vehicle, and a
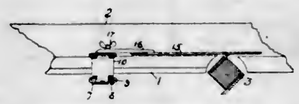


conveying means comprising a tubular conveying duct connected at one end to said outlet, and a gasket at the other end of said duct for attachment between the outlet portion of a carbureter and the inlet-member of the intake-manifold of the engine, said gasket having a conveying duct-portion in communication with the interior of said conveying duct and the said carbureter and manifold-members.

1,375,012. ELECTRIC BATTERY. DAVID PEPPER, Philadelphia, Pa. Filed Nov. 29, 1919. Serial No. 341,499. 3 Claims. (Cl. 204—29.)



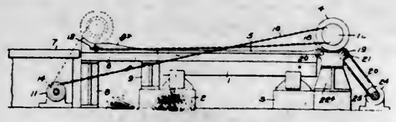
3. A battery comprising a container, active material contacting with the inner wall thereof, a lead grid formed of two sections bent in opposite directions to conform to the shape of the container and united by a cross piece at the top formed with a conducting lug springing from its center, said segments having active material attached to them and constituting the inner electrode of the battery, and absorbent material separating the inner and outer electrodes.

1,375,013. CUTTER-GUARD. MARCEL L. PINETTE, Westbrook, Me. Filed May 22, 1920. Serial No. 383,370. 2 Claims. (Cl. 144—251.)



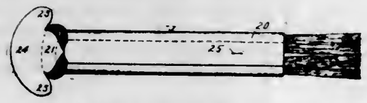
1. In a cutter guard for buzz planers and the like, the combination of a bracket secured to the frame of the machine, a riser hinged to said bracket, a guard plate support secured to the upper end of said riser extending over and resting on the table of the machine, a guard plate secured to said support and extending over the cutter and means for holding said riser in locked position with said bracket when in operative position and in released or hinged position when the device is not in operation.

1,375,014. MACHINE FOR ROLLING PLATE-GLASS. HARRY A. REYNOLDS, Ford City, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed May 26, 1920. Serial No. 384,461. 7 Claims. (Cl. 49—34.)



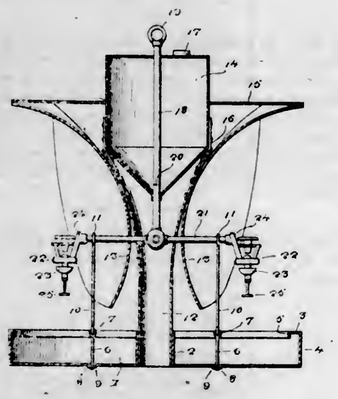
4. In combination in glass rolling mechanism, a table, a roll mounted on the table for movement longitudinally thereof, a pair of roller members extending transversely of the table at its end and adapted to receive the roll and support it for rotation out of contact with the table, and means whereby the roll is turned while in such position.

1,375,015. THREAD PACKAGE OR HOLDER. REGINALD REYNOLDS, Riverside, Conn. Filed Oct. 13, 1919. Serial No. 330,253. 5 Claims. (Cl. 206—64.)



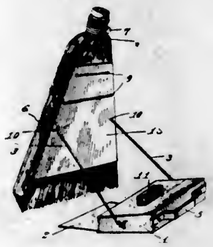
1. A thread package comprising a wrapper having a notch in one longitudinal edge for dividing said wrapper into a body portion and a locking neck, and a bundle of threads folded intermediate its ends and looped around said locking neck with half of said folded bundle passing through said notch, said body portion being folded to inclose a portion of the folded bundle intermediate its ends, the portion of said wrapper adjacent the notch and locking neck being folded on and secured to said body portion.

1,375,016. INSECT ATTRACTING AND EXTERMINATING DEVICE. HOWARD F. RHOADS, Winston-Salem, N. C., assignor of one-third to John A. Powell, Middletown, Ohio. Filed Sept. 27, 1920. Serial No. 412,994. 3 Claims. (Cl. 43—113.)



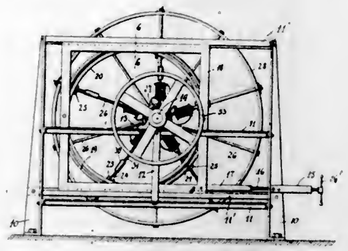
1. An insect attracting and exterminating device, comprising a tubular standard the upper portion of which is flared or enlarged, a hydrocarbon tank having a lower tapered portion disposed in the upper enlarged portion of said standard, brackets arranged between and connecting the standard and the tank, reflectors grouped about the standard and connected together and to the standard, a hanger extending above and below the tank and having a conduit portion in communication with the lower portion of the tank and also having arms reaching outwardly through the standard and the reflectors, burners carried by the said arms and arranged each in front of a reflector, and a catch-pan suspended from the said arms.

1,375,017. COMBINATION DUST-PAN AND BROOM. WILLIAM HUNTINGTON RUSSELL, New Haven, Conn. Filed Sept. 9, 1920. Serial No. 409,251. 4 Claims. (Cl. 65—62.)



1. A dustpan attached to a broom, consisting of a dustpan which is automatically raised off the floor when not in use by means of elastic supporting members with means of attaching the same to said dustpan and broom, a rest attached to the broom and a means for operating said dustpan by either the foot or hand, substantially as set forth.

1,375,018. MOTOR. CAMILLO SAVINO, New York, N. Y. Filed Aug. 30, 1920. Serial No. 407,053. 10 Claims. (Cl. 172—126.)



1. A motor of the character described, comprising a rotor, weights carried by said rotor and movable toward and from its center, a stationary cam track governing the position of said weights, and means, operating along a portion of said track which approaches the center of the rotor, for shifting said weights inwardly.

1,375,019. BALL-BEARING. ROLAND W. SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 22, 1920. Serial No. 383,523. 6 Claims. (Cl. 64—36.)



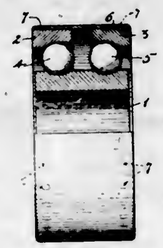
5. A ball bearing of the type described, comprising an inner and an outer bearing ring having complementary race tracks therein with balls in said race tracks operating to hold said rings in assembled and operative position, one of said bearing rings being formed of two annular ring sections, each of said sections having a ball bearing surface thereon forming one of said race tracks, and a welded connection at the adjacent edges of said two ring sections operating to permanently unite said sections.

1,375,020. PROCESS OF MANUFACTURING BALL-BEARINGS. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 22, 1920. Serial No. 383,524. 5 Claims. (Cl. 219—10.)



1. The process of forming a ball bearing of the type described and including two bearing rings having complementary race-ways with balls therebetween, said balls operating to hold said rings in operative and adjusted relation to each other, said process comprising making one of said bearing rings of two ring sections each having a ball track thereon and assembling said balls and rings with two edges of the two ring sections of one bearing ring in close relation to each other, then welding said two edges together to integrally unite the said two ring sections to form a unitary bearing ring, said balls acting as spacers for said ring sections during the welding operation.

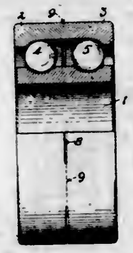
1,375,021. BALL-BEARING. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 19, 1920. Serial No. 417,946. 7 Claims. (Cl. 64—36.)



6. In a ball bearing, two bearing rings having complementary race-ways therein, one of said rings comprising two ring sections, and a sleeve spanning said two ring sections and welded thereto, and serving to hold said sections spaced apart to form a pocket.

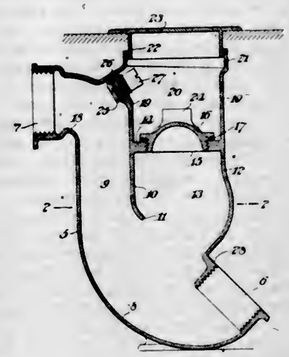
1,375,022. BALL-BEARING. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 19, 1920. Serial No. 417,947. 5 Claims. (Cl. 64—36.)

5. In a ball bearing, an inner bearing ring having a race-way therein, an outer bearing ring having a complementary race-way therein, said outer ring being formed in sections, spacer abutments on said sections, the abutments



on said sections being welded together to form the complete outer bearing ring.

1,375,023. BATH-TRAP. JOSEPH W. SHARP, Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury Incorporated, a Corporation of Pennsylvania. Filed July 20, 1918. Serial No. 245,855. 3 Claims. (Cl. 182—12.)

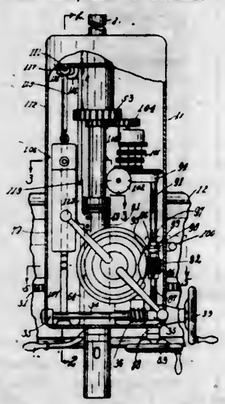


1. A bath trap comprising a chambered body having its greater dimension extending vertically, with an intake port at the bottom and an outlet port at the top, a vertically extending partition within the chambered body, near the central portion thereof, forming with the outer wall of the body, adjacent the outlet, a substantially vertical channel delivering to said outlet, and having its lower edge curving inwardly toward a plane through the axis of the body, said lower edge also terminating a substantial distance above the top of the intake port, whereby a partially closed chamber or reservoir is provided entirely above said intake and out of the path of travel from intake to outlet, the outer wall which extends from the intake to said vertical channel, being curved substantially in the arc of a circle, and the intake being so arranged and positioned as to direct the flow in an unobstructed path along said curved wall to said vertical channel.

2. The combination as defined in claim 1, in which the body is provided with an opening at the top, and a cap is provided having a downwardly extending flange loosely fitted in said opening with sufficient play to permit of telescopic and angular movement to allow adjustment with respect to the floor level.

3. The combination as defined in claim 1, in which the margins of the inlet and outlet ports are flanged and provided with especially dressed surfaces in planes at right angles with the axes of the openings as and for the purpose described.

1,375,024. **FEEDING MECHANISM FOR METAL-WORKING MACHINERY.** AUGUSTUS M. SOSA, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 10, 1917. Serial No. 190,655. 3 Claims. (Cl. 77—36.)



1. In a metal working machine, the combination of a tool-slide, an axially feedable tool-spindle journaled thereon, a counterweight movable in a line substantially parallel with the line of feeding movement of said tool-spindle, a rack for said counterweight substantially parallel with the line of movement of said counterweight, a latch pivoted to said counterweight, means to urge engagement of said latch with said rack, and a supporting connection for said counterweight extending upwardly directly from said latch to exert a pull on said latch in a line substantially parallel with said line of movement of said counterweight, said supporting connection having supporting connection with said tool-spindle.

2. In a drilling machine, the combination with the axially feedable drill-spindle, of counterweighting means therefor comprising a counterweight movable in a line substantially parallel with the line of feeding movement of said drill spindle, a coacting rack therefor, a latch pivoted to said counterweight and provided with a tooth for engagement with the teeth of said rack, a resilient part acting on said latch to urge said tooth into engagement with said rack, the pivot of said latch being located between said resilient part and said rack, and a tension-member supporting said weight having connection with said latch at the same side of its pivot as the side with which said resilient part coacts and extending directly upward from said latch to exert a pull on said latch in a line substantially parallel with the line of movement of said counterweight.

3. In a drilling machine, the combination with the axially feedable drill-spindle, of a counterweight therefor, said counterweight having a bore therethrough, a rack received through said bore, said axially feedable drill-spindle, said bore and said rack being substantially parallel, a spring-pressed plunger, a latch having a pivot on said counterweight, said latch provided below its pivot with a tooth for engagement with said rack, a heel arranged to be pressed by said spring-pressed plunger to urge engagement of said latch with said rack, and a heel arranged to engage said counterweight to prevent overthrow of said latch with relation to said rack, and a tension-member having connection with said latch and extending directly from said latch in a direction substantially parallel with said rack to exert direct pull on said latch in line with the line of movement of said counterweight.

1,375,025. CAR-SEAL. FREDERICK STRAHM, Lawrence, Kans. Filed Sept. 18, 1920. Serial No. 411,298. 1 Claim. (Cl. 292—318.)

A car seal comprising a ribbon having an opening in one end, a pair of struck up tongues in said end outwardly of the opening and extending longitudinally of the strip in overlapping relation, the other end of the ribbon having an opening for the reception of one of said tongues, and a plate bent on its longitudinal median line and



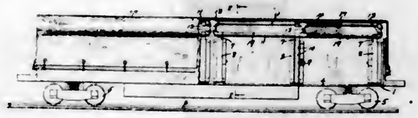
having an opening therein, formed by striking out a pair of tongues which are engaged through the first opening of the ribbon, the longer marginal edges of the plate being crimped together, one wing of the plate having a pressed out recess receiving the ends of the tongues.

1,375,026. DISPLAY-STAND. JULIEN STRANDERS, Brooklyn, N. Y., assignor to Harry B. Kruger, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,540. 5 Claims. (Cl. 40—126.)



1. A display stand comprising a tubular body capable of collapse, and a support for the body foldably associated with it and being free of the body at the back portion thereof for quick and easy manipulation, the front lower portion of the body departing from the tubular contour and being substantially straight whereby to provide a laterally elongated base to avoid side tilting of the stand.

1,375,027. CONVERTIBLE AND PORTABLE TOP. HERBERT S. THOMPSON, Peekskill, N. Y., assignor to The Standard Textile Products Company, Youngstown, Ohio, a Corporation of Ohio. Filed Sept. 3, 1920. Serial No. 407,896. 6 Claims. (Cl. 105—377.)

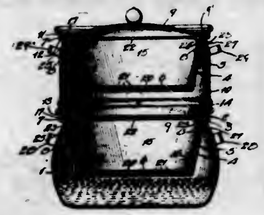


2. A portable top for a carrier, comprising side members removably secured to the carrier, interlocking roof members pivotally secured to the said side members, a runway secured to the roof members, and a removable cover supported by said roof members and secured to said carrier.

1,375,028. STEAM COOKING DEVICE. OLAF TOLLAGSEN, St. Louis, Mo. Filed Jan. 6, 1919. Serial No. 269,744. 4 Claims. (Cl. 53—2.)

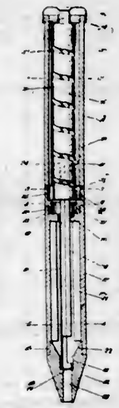
2. In a device of the kind described, two sheet metal vessels adapted to fit one within the other, and having the upper parts of their side walls substantially in contact, coöperating interlocking projections and depressions

formed in said contacting walls, said side walls being provided with registering holes which are caused to reg-



ister by the engagement of said depressions and projections, and a wire bail having ends passing through said holes.

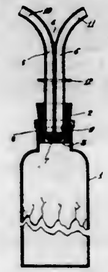
1,375,029. PENCIL-HOLDER. ANDREW VALEGGIA, London, England. Filed Dec. 31, 1919. Serial No. 348,675. 7 Claims. (Cl. 120—18.)



6. A magazine pencil holder comprising a casing, provided with a plurality of radially extending partitions, forming magazine compartments, each adapted for holding a single lead, a central sheath for a single lead, provided with a longitudinal opening, adapted to be brought into register with said magazine compartments in succession by rotation of said sheath, a plunger in said sheath for extruding the lead, a screw in axial alinement with said plunger for advancing the same, coöperating means between said plunger and the casing for preventing rotation of the plunger when the screw is rotated for advancing the plunger, means within the casing for holding the plunger against advancement by the screw, said last named means being rotatable with the plunger step by step in one direction, while holding said plunger against advance movement, means whereby said sheath is rotated simultaneously with the rotation of said plunger, a click detent for holding said plunger and sheath with the opening in said sheath in register with the magazine compartments in succession and means for preventing rotation of said plunger and sheath when said screw is rotated in the opposite direction to retract said plunger from the sheath and thereby permit the entry of the lead from the registering magazine compartment.

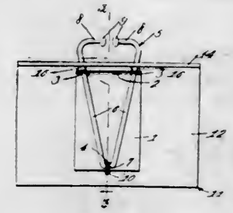
1,375,030. BOTTLE-STOPPER. LAURENCE F. WATKINS and GEORGE WILLIAM WILTON, Wellington, New Zealand. Filed June 24, 1919. Serial No. 306,468. 2 Claims. (Cl. 215—74.)

1. In a bottle stopper, the combination with an axially bored cork, of a tube member longitudinally slidable in the bore of the cork, said tube member having unobstructed passage therethrough and oppositely disposed lateral openings adjacent its inner end, and a closure for



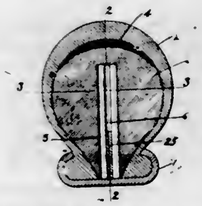
the extreme inner end of such tube, the longitudinal movement of the tube in the cork controlling the discharge through the tube.

1,375,031. WEANER. WALTER R. BARGER, Benkelman, Nebr. Filed Oct. 18, 1920. Serial No. 417,701. 2 Claims. (Cl. 119—132.)



1. A calf weaner including a body; a hanger mounted on the body and including upwardly diverging arms; and a bib comprising a main member of greater area than the body, the main member having projecting top flange overhanging the body and provided with slots prolonged into the main member, the slots diverging downwardly and outwardly, the upper portions of the arms being received loosely in the slots.

1,375,032. INNER TIRE-CUSHION. JOHN W. BURGESS and GEORGE F. BURGESS, Kansas City, Mo. Filed Aug. 9, 1920. Serial No. 402,232. 1 Claim. (Cl. 152—5.)

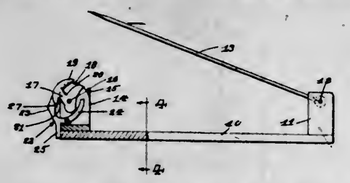


A tire filler having radial bores extended part way therethrough from the inner edge thereof toward the outer edge thereof, and provided in its median plane with a slit of less width than the bores, the slit intersecting the bores and being of substantially the same depth as the bores.

1,375,033. PIN-FASTENER. ANDREW W. KOSKI and THOMAS CASEY, Fitchburg, Mass. Filed Oct. 30, 1920. Serial No. 420,756. 4 Claims. (Cl. 24—157.)

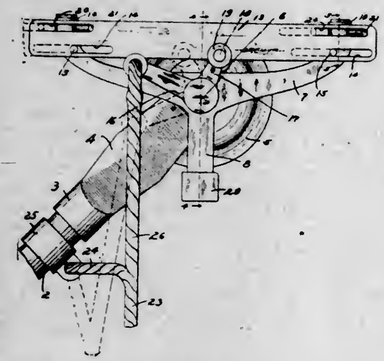
4. In a pin fastener, the combination with a body portion having a pin pivotally connected therewith to swing

in a given plane, of a pair of spaced ears approximately parallel to and arranged upon opposite sides of the plane of swing of said pin, a plate pivotally mounted intermediate said ears and provided with a slot forming in said plate an overhanging portion and a striking piece causing rotation of said plate and causing said overhanging portion to overlie the free end of the pin and means actuated by the rotation of said plate for positively locking the plate against rotation comprising a second plate



pivotally mounted intermediate and embodying a dog and an operating arm, said first named plate having a notch formed therein and opposed to said slot, a portion of said first named plate engaging said operating arm and causing rotation of said second named plate to bring the dog thereof into engagement with said notch, said dog having a binding engagement with the edges of the first named plate during its movement into and out of engagement with said notch.

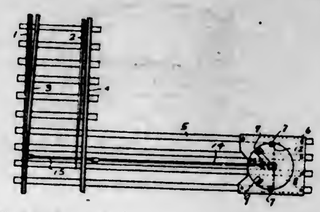
1,375,034. TROLLEY-RETRIEVER. ANTOINETTE A. COHEN, Birmingham, Mich. Filed Aug. 11, 1919. Serial No. 316,558. 5 Claims. (Cl. 191—80.)



1. A device of the class described comprising a frame pivotally mounted on a trolley wheel axle, and arranged wholly on one side of the wheel, arms pivotally mounted on the ends of said frame adapted to swing in a horizontal plane over the trolley wire, and a spring for normally holding the arms over the trolley wire, while allowing said arms to swing laterally away from the wire when struck by one of the connectors of the trolley wire.

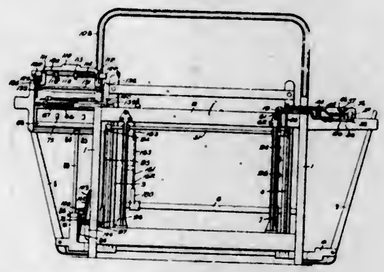
1,375,035. SAFETY SWITCH LEVER AND LOCK. LEE J. COTTON, De Quincy, La. Filed Dec. 3, 1920. Serial No. 428,124. 2 Claims. (Cl. 246—414.)

1. A device of the character described, including the combination with a railway switch of a switch stand fixed relative to the railway track, a table fixed to said stand and provided with marginal notches, a vertical shaft having a bearing in said table, a lateral arm carried by said shaft, a link pivoted at one end to the free end of said arm and at its other end to said switch, a throw arm fixed to said shaft adjacent the table, a lever pivoted to the outer end of said throw arm and adapted to normally rest in either of said notches, a spring lock carried by said lever and provided with means to automatically lock the same in said notch, said lock including a bolt having a recess therein, a safety pin adapted to engage in the



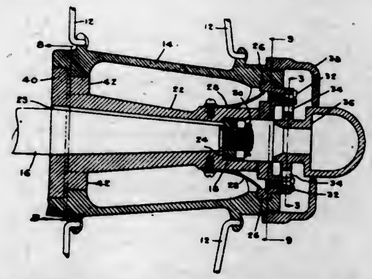
recess and a yieldable cushion whereon the pin is mounted, said pin constituting means for preventing the operation of the lock, when seated in said recess.

1,375,036. REPLENISHING-LOOM. EDWARD A. CUNNIFF, New Bedford, and JOHN V. CUNNIFF, Fall River, Mass., assignors to James K. Lanning, Boston, Mass. Filed Dec. 12, 1912. Serial No. 736,284. 65 Claims. (Cl. 139—85.)



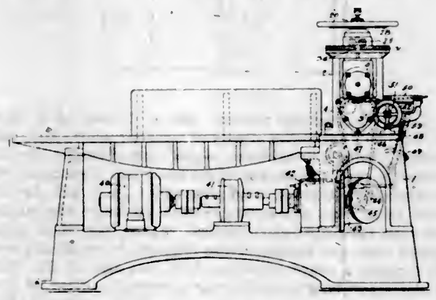
1. Shuttle replenishing mechanism for looms comprising in combination, a lay, a running shuttle-box movable therewith, a member mounted upon the loom frame and adapted to support a spare shuttle, means to elevate the front and back walls of the running shuttle-box away from the bottom wall thereof into inactive position, and means to transfer said spare shuttle from said supporting member to said inactively positioned front and back shuttle box walls.

1,375,037. DEVICE FOR SECURING DEMOUNTABLE WHEELS. ALFRED J. DE LA BARRE, Minneapolis, Minn. Filed Mar. 12, 1920. Serial No. 365,175. 1 Claim. (Cl. 301—9.)



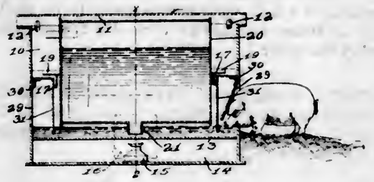
A device for securing demountable wheels comprising a sleeve member having radial slideways in its outer end, detents slidably mounted in said slideways, resilient means tending to hold said detents outwardly, an outer hub member having an annular shoulder with which said detents engage when in outward position to hold said hub member on said sleeve member, projections on said detents, and a rotatable member having cam grooves through which said projections extend whereby said detents may be moved radially inward against the tension of said resilient means to unlock the hub, said detents being so constructed that the hub member may be slid upon said sleeve member and automatically locked by the detents when the latter are in outward position.

1,375,038. MACHINE FOR MAKING LEAF-SPRINGS. THEODORE L. R. D'ORVILLE, Sewickley, Pa., assignor to Standard Steel Spring Company, Coraopolis, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1920. Serial No. 352,747. 3 Claims. (Cl. 153—54.)



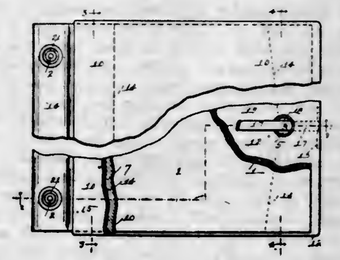
1. A machine for bending leaf springs and the like comprising three parallel and triangularly arranged bending rolls, a slidable block for rotatably supporting one of the said rolls, a shaft in screw-threaded supporting engagement with the said block, means for supporting the said shaft from screw threads of a different pitch from the screw threads on the said shaft, and means for independently turning either the said shaft or the said shaft-support, whereby the said block and the said roll may be given either a rough adjustment or a fine adjustment toward or away from the other two rolls.

1,375,039. STOCK-WATERING TANK. ALBERT N. EATON, Omaha, Nebr. Filed Mar. 15, 1920. Serial No. 365,896. 2 Claims. (Cl. 119—73.)



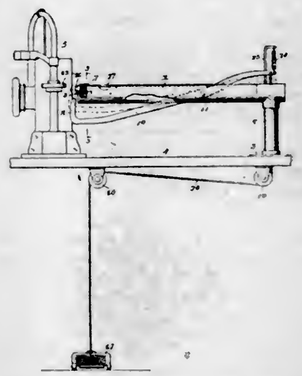
1. An improved stock watering tank comprising a housing adapted to be sunk partially at its lower end in the ground and having openings in its ends situated above the bottom of the housing, automatically closing doors for said openings adapted to be swung inwardly and upwardly by the animal in the act of drinking, a trough extending from end to end of the housing and situated above the bottom thereof yet beneath the lower edges of said openings, said trough having spaces along its sides to allow communication between the portions beneath and above the trough within the housing, hoods extending about said doors being disposed inwardly of the doors to permit swinging of the same, said hoods extending downwardly and partially into said trough and a barrel supported in the housing above said trough and having a filling and discharging neck adapted when in the inverted position to extend beneath the surface level of the liquid in the trough, a hook carried by the interior of the housing, a pair of coöperating eyes situated at angularly spaced distances on the barrel adapted to coöperate with said hook to hold the barrel with its filling and discharging neck in either an upright or an inverted position, an openable top for the housing adapted to give access for filling to the barrel, heating means placed beneath the trough in the lower portion of the housing, said heating means having access to the barrel and upper portion of the housing through the spaces at the sides of the trough, and a door in the lower portion of one side of the housing for giving access in placing and removing the heating means.

1,375,040. COVERING FOR BOOKS. WILLIAM H. EDWARDS, Grand Rapids, Mich. Filed Jan. 21, 1921. Serial No. 438,838. 3 Claims. (Cl. 281—34.)



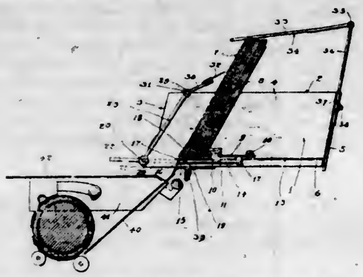
1. In a device of the character described; a pair of sheaths for the covers respectively of a book into which sheaths the outer edges of said covers respectively are thrustable, one of the sheaths having an opening through its inner wall and the other sheath having a flexible sheet extending from its outer wall and into the first mentioned sheath between its outer wall and the book's cover therein and having a strap portion extending around the outer edge of said cover and through said opening.

1,375,041. FABRIC STRAIGHTENING AND GUIDING DEVICE. HUMPHREY EVANS, Milwaukee, Wis., assignor to Holeproof Hosiery Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 19, 1920. Serial No. 390,250. 12 Claims. (Cl. 112—20.)



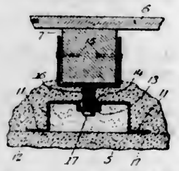
1. In a fabric straightening and guiding device the combination of a support and a brush mounted thereon and adapted by engagement with ribs of a fabric moved over it to straighten and guide the fabric parallel with the ribs thereof.

1,375,042. SHEET-FEEDING DEVICE. ERNEST A FEDDERSEN and RUDOLF F. SCHOTT, San Francisco, Calif. Filed Mar. 9, 1920. Serial No. 364,476. 6 Claims. (Cl. 271—43.)



2. A sheet feeding apparatus including a receptacle open at one end and adapted for containing a plurality of sheets positioned therein in stack formation edgewise and at an incline toward the rear of the receptacle, means for forcing the sheets toward the open end of the receptacle, an upstanding member at the lower edge of the open end of the receptacle against which the lower edge of the foremost sheet of the stack is in frictional contact, means at the open end of the receptacle capable of movement to operative position for engaging the foremost sheet of the stack to raise the same free of said upstanding member, and a notched frame overlying the stack of sheets and movable upwardly with said foremost sheet as the same is raised to move the upper edge of the raised sheet forwardly of the next succeeding sheet of the stack to provide an air space between said sheets to permit said raised sheet to fall by gravity free of the open end of the receptacle and over the face of the next succeeding sheet of the stack on the return of the sheet engaging means to normal position.

1,375,043. FLOOR-STRIP HOLDER. MURDO G. FINLAYSON, Chicago, Ill. Filed Aug. 23, 1919. Serial No. 319,320. 5 Claims. (Cl. 20—6.)



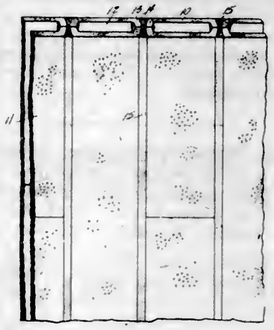
5. A floor strip holder, comprising a base member and a floor strip supporting member, means for securing a floor strip to said floor strip supporting member, and adjustable means positively connecting said members together so as to preclude relative movement therebetween in any adjusted position.

1,375,044. COMBINATION-LOCK. GEORGE W. FOLLICK, Buffalo, N. Y. Filed Sept. 9, 1920. Serial No. 409,077. 4 Claims. (Cl. 70—53.)



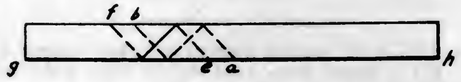
1. A combination lock, comprising a lock-body, an operating shaft journaled therein and having a locking recess arranged obliquely to the axis of the shaft, an inclined rotary tumbler-disk arranged to engage edgewise in said recess to lock said shaft against rotation, said disk having a releasing-notch in its edge, and means for turning said tumbler-disk.

1,375,045. BUILDING-SLAB. OSCAR A. HANSZEN, Dallas, Tex. Filed Feb. 11, 1920. Serial No. 357,923. 1 Claim. (Cl. 72—29.)



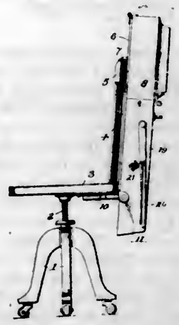
A wall comprising vertical sets of blocks, each block in each set comprising a pair of opposed slabs, each slab being provided at its vertical edges with inwardly directed lateral flanges, the flanges of the two slabs forming an air opening in the block, said flanges of each slab having their outer faces converging toward the outer face of the slab, the flanges at each vertical edge of the block being spaced from the flanges of the adjacent block in the next set forming a space extending from one side of the block to the other, said space having a central contracted portion and diverging in opposite directions toward its free ends, and a column of plastic material molded in said space and having a similar shape in horizontal cross section, said column having its opposite sides terminating substantially flush with the opposite faces of said blocks.

1,375,046. ENDLESS BELT, STRAP, AND OTHER LIKE ARTICLE. ARTHUR MARK HARDY, Bowmanville, Ontario, Canada. Filed May 15, 1920. Serial No. 381,606. 5 Claims. (Cl. 74—63.)



1. A seamless endless belt comprising a single strip of impregnated fabric wound longitudinally on itself a plurality of times, and having each side folded inwardly to overlap the other.

1,375,047. WARDROBE ATTACHMENT FOR CHAIRS. ARCHIBALD CHARLES HEAPHY, New York, N. Y. Filed July 7, 1919. Serial No. 309,002. 7 Claims. (Cl. 155—188.)



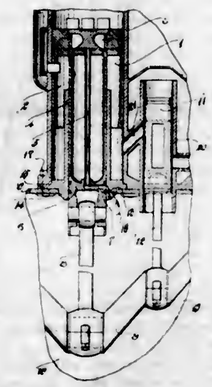
1. In a wardrobe attachment for chairs, the combination of a body member adapted to be secured to a chair back and in rear thereof; and two box-like members associated therewith and adapted when closed against the body member to form compartments in which wearing apparel may be housed.

1,375,048. BONNET. RUTH F. HOUGH, Sierra Madre, Calif. Filed May 27, 1920. Serial No. 384,647. 3 Claims. (Cl. 2—106.)



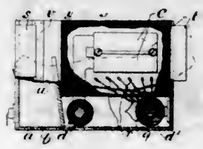
1. A bonnet comprising a band-forming piece, a crown-forming piece connected with the intermediate portion of the band-forming piece, releasable fastening means on the opposite ends of the band-forming piece, and other releasable fastening means on the band-forming piece and marginal portion of the crown-forming piece.

1,375,049. ENGINE CONSTRUCTION. THOMAS A. HUTSELL, Spokane, Wash., assignor to The Hutsell Motor Company, Spokane, Wash. Filed Sept. 24, 1919. Serial No. 326,057. 1 Claim. (Cl. 123—74.)



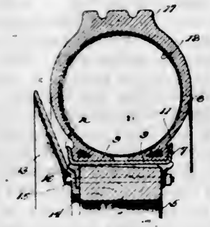
The combination with the crank case and its open top wall and a cylinder having an open lower end, of a concentric sleeve opening into the cylinder and crank case and having an exterior collar at its lower end to close the cylinder and top wall of the crank case, said collar provided with an oil supply passage and an oil pipe, a hollow piston in the cylinder inclosing the sleeve and having a hollow stem in the sleeve, a flange on the collar seated between the flanged end of the cylinder and the top wall of the case and securing means therefor, and said stem having means therein to receive oil from said supply passage.

1,375,050. APPARATUS FOR THE TREATMENT OF RHEUMATISM, GOUT, SCIATICA, NEURALGIA, AND SIMILAR AILMENTS. JOSEPH KRAUER, Heaton Chapel, England. Original application filed May 1, 1916, Serial No. 91,886. Divided and this application filed Apr. 2, 1920. Serial No. 370,863. 5 Claims. (Cl. 174—177.)



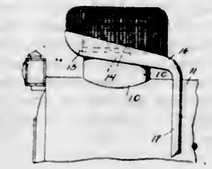
1. An apparatus for the treatment of diseases, comprising in combination, a receptacle, to surround the part to be treated, heat producing means within the receptacle and electro-magnetic means within the receptacle.

1,375,051. VEHICLE-WHEEL. ROLPH J. LACKNER, New York, N. Y. Filed Dec. 31, 1919. Serial No. 348,582. 1 Claim. (Cl. 301—20.)



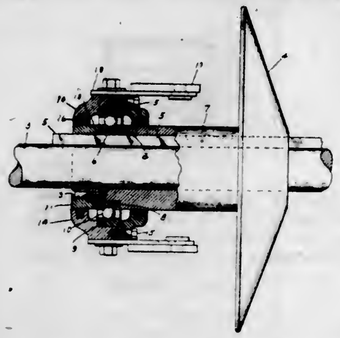
A wheel rim comprising an annulus, and a pair of tire receiving flanges formed along the edges of said annulus, one of said flanges being extended outwardly beyond the other flange and constituting an auxiliary supporting member, said auxiliary supporting member being provided with corrugations extending out through its outer side and forming a means for securing a skid chain against circumferential movement with relation to the wheel.

1,375,052. SPARK-ARRESTER. CLARENCE E. LEVAN, Berwick, Pa. Filed May 14, 1918. Serial No. 234,474. 1 Claim. (Cl. 183—72.)



In a spark arrester for smoke stacks, the combination with a screen element including an inverted cone whose apex stands within the stack at its axis and whose walls pass through the mouth of the stack and out of contact therewith, being rolled outward and downward into an encircling skirt; of a sleeve around the stack, arms rising therefrom and bent inward over the upper end of the stack; a ring carried by the upper ends of said arms for supporting said screen element, and an imperforate annular gutter whose inner edge incloses the stack and whose outer edge is connected with said skirt, the bottom of the gutter being curved transversely and standing oblique to the axis of the stack and cone and having a delivery opening at its lowest point.

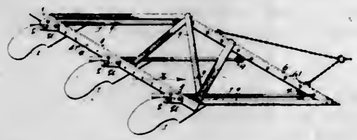
1,375,053. BEARING FOR VARIABLE-SPEED TRANSMISSION MECHANISM. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Sept. 20, 1920. Serial No. 411,404. 2 Claims. (Cl. 64—8.)



1. The combination with the hub of a variable speed transmission disk, said hub having a shoulder formed thereon, of a bearing surrounding said hub and abutting against said shoulder, anti-friction bearing members arranged in said bearing to receive both radial and lateral thrusts, means for holding the bearing in position on the hub, and a casing surrounding said bearing.

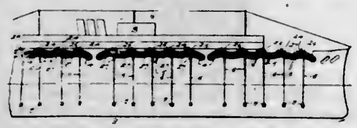
2. In a variable speed transmission mechanism, a shaft, a pulley mounted on said shaft, an elongated hub on said pulley, a combined radial and lateral thrust receiving bearing mounted on said hub and peripherally thereof, a cap for holding said bearing on the hub, and a spline carried by said shaft for causing the pulley to rotate with the shaft, said spline projecting through said cap.

1,375,054. GANG-PLOW. KIEFFER LINDSEY, Rome, Ga. Filed Jan. 15, 1920. Serial No. 351,657. 8 Claims. (Cl. 97—69.)



1. In a plow or like structure, a draft frame including a draft bar and a break pin that connects the plow beam with the draft bar; of a standard fixedly attached to the beam near the plow end, a guide on the rear of the draft frame that has an open end rearwardly extended slot in which the plow standard is held as the plow is being pulled and from which it becomes wholly disconnected, when the pin breaks.

1,375,055. SHIP-SALVAGING DEVICE. JOSEPH LODATO, Ogden, Utah. Filed June 5, 1920. Serial No. 386,675. 8 Claims. (Cl. 114—68.)



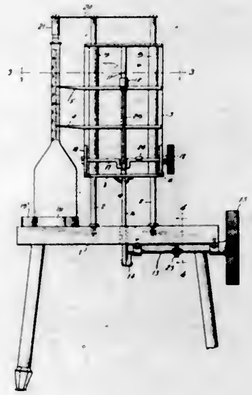
1. In a ship salvaging device, the combination with an inflatable bag, of operative means for positively drawing the bag to operative position at the water level, means for inflating the bag, means for deflating the bag, means for hoisting the deflated bag to inoperative position and for wrapping the bag upon itself in compact form.

1,375,056. TOW-BAR. EZEKIEL W. MCMINN, Richmond, Va. Filed July 6, 1920. Serial No. 394,042. 1 Claim. (Cl. 213—67.)



A device of the character described comprising a tubular member, coupling means carried by one end of said member, a coupling shank telescopically engaged in the opposite end portion of the tubular member, said tubular member having registering slots adjacent the inner end of the shank, a sleeve slidable on the tubular member, said shank being connected to the sleeeve through the slots, a cap on said end of the tubular member, and a spring surrounding the tubular member and engaging the sleeve and the cap.

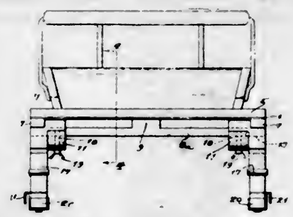
1,375,057. BUTTER-FAT GAGE. JOHN A. MEEKER, Potsdam, N. Y. Filed May 22, 1920. Serial No. 383,561. 3 Claims. (Cl. 73—51.)



1. A gage comprising a support, a guide carried thereby, a member adapted to reciprocate on the said guide, a pointer carried by the said member, a second pointer carried by the said member and adjustable with relation to the first pointer, a crank shaft mounted on the support and a pitman connected to the said member and the crank shaft.

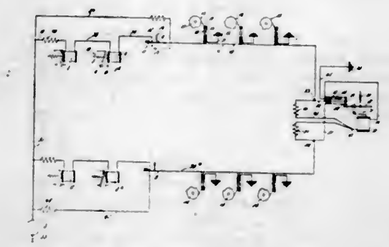
1,375,058. ADJUSTABLE VEHICLE-SEAT. DOSS A. MEREDITH, Prague, Okla. Filed Dec. 22, 1920. Serial No. 432,546. 2 Claims. (Cl. 155—9.)

1. A vehicle seat construction comprising a seat, track hangers carried by the bottom of the seat, a track extending longitudinally of the seat and connected to the hangers, supporting means slidable on said track, said means comprising a pair of supporting members adapted to surround a portion of the track, a portion of each supporting member projecting on each side of the track, said projecting portions being adapted to contact at certain times with the bottom of the seat, each of said supporting members having one end portion thereof reduced to provide a shoulder adapted at certain times to be disposed beneath



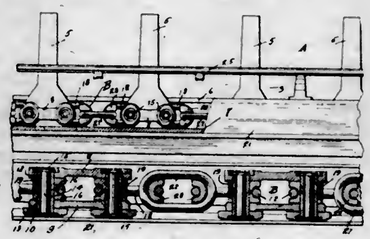
the hangers, springs secured to the lower surface of the supporting members, and means for connecting the springs to the body of the vehicle.

1,375,059. SIGNAL SYSTEM. ALFRED E. MEYER, Cincinnati, Ohio. Filed Feb. 11, 1918. Serial No. 216,561. 6 Claims. (Cl. 177—367.)



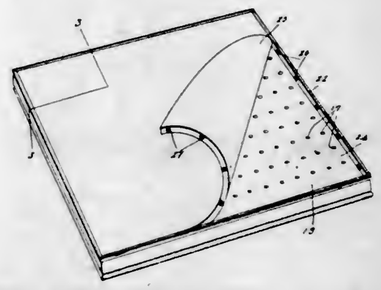
4. In a signal system, comprising a metallic line, a source of current having one pole thereof connecting with the ends of said metallic line and the opposite pole thereof grounded and earth connection for said line for dividing said metallic line into independent circuits, each having an earth return, signal transmitting apparatus for each independent circuit in circuit therewith, receiving apparatus for each independent circuit therewith, and electro-magnetic means having its magnet windings normally in circuit with said independent service lines for cutting out said earth connection and establishing a unitary metallic line.

1,375,060. CONVEYING MECHANISM. NORTON A. NEWDICK, Columbus, Ohio, assignor to James Ellwood Jones, Switchback, W. Va. Filed June 26, 1919. Serial No. 306,954. 3 Claims. (Cl. 193—8.)



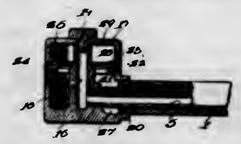
1. In a conveyor, the combination with a frame, a pair of spaced and stationary longitudinally extending guide members carried by said frame, of a chain structure located between and movable in parallelism with said members, said structure comprising a plurality of link elements articulately connected at intervals by means of pivot members, flight elements connected with and protruding laterally from said pivot members, and devices mounted to rotate about the lower extremities of said pivot members whereby when said flights are placed under load conditions said devices will be caused to engage with said guide members to facilitate the movement of the chain structure.

1,375,061. MATTRESS. MARTIN NYHUS, Ashland, Wis. Filed June 4, 1920. Serial No. 386,475. 2 Claims. (Cl. 5—13.)



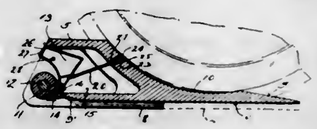
1. A mattress comprising a spring frame, a covering for said frame, means for connecting the opposed ends of the spring to said covering, rolled edges built up from asid frame, a separable pad reposing upon the frame and lying within the confines of said rolled edges and means for detachably connecting the mattress with said edge.

1,375,062. OIL-BURNER. KYLE DERIAS OBENSHAIN, McKinney, Tex. Filed Feb. 9, 1920. Serial No. 357,241. 3 Claims. (Cl. 158—75.)



2. A burner head comprising a substantially cylindrical casing, having an axial tubular member, said tubular member having a lateral nipple for connection with a fuel supply pipe and having lateral openings near its top for permitting the fuel to flow into the casing, a partition extending transversely of the casing between the sections and between the last named openings and the nipple, the casing having a lateral port and the partition having openings at the port, said casing having a ledge below the said openings onto which the openings feed, and means for supplying air to the lower section of the casing.

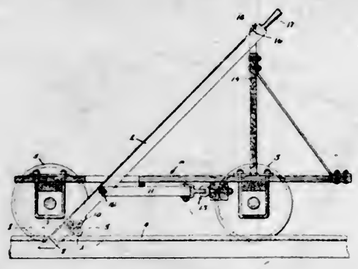
1,375,063. EMERGENCY-WHEEL SKID. CHARLEY D. OLAND, Centralia, Ill. Filed Aug. 13, 1919. Serial No. 317,173. 8 Claims. (Cl. 104—260.)



1. A skid of the class described including a rail engaging portion having rail supporting portions on its upper face

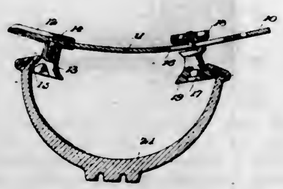
spaced longitudinally of the rail engaging portion and disposed to hold the tread of a wheel free from the portion of the skid therebetween.

1,375,064. DEVICE FOR CLEANING THE SURFACE SLOTS OF TUNNELS OF UNDERGROUND THIRD-RAIL SYSTEMS. DUNCAN W. PECK, Syracuse, N. Y. Filed Aug. 7, 1920. Serial No. 401,969. 10 Claims. (Cl. 104—280.)



1. A device for cleaning the surface slots of tunnels of underground third rail systems comprising an inclined bar for entering the slot and having fulcrums above the lower end of the bar and arranged to bear on the surfaces of the tunnel on opposite sides of the slot in the rear of the point of contact of the cutter bar with the obstructions in the slot, substantially as and for the purpose described.

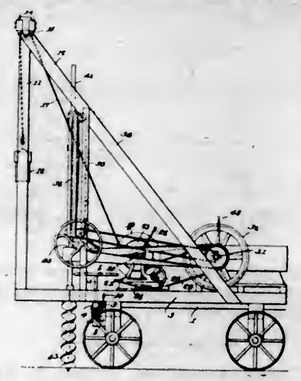
1,375,065. TIRE-SPREADER. ERNEST A. RAYNAUD, San Diego, Calif., assignor of one-half to John W. Perkins, San Diego, Calif. Filed Feb. 25, 1920. Serial No. 361,184. 5 Claims. (Cl. 152—27.)



5. A tire spreader including a shank having an angularly disposed portion providing an arm, a roller carried by said arm near the inner end thereof, and a post fixed against rotation upon the arm near its outer end whereby the post and roller may be inserted between the beads of a tire casing and the post engaged with one of said beads to act as a pivot supporting the shank for swinging movement to ride the roller against the other of said beads to a position where the post and roller lie in a plane transversely of the casing for spreading the sides of the casing.

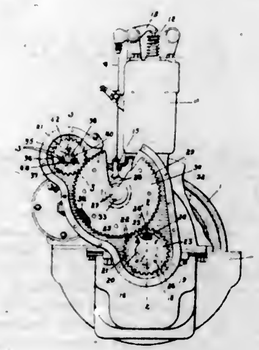
1,375,066. AUGER AND DRIVER. JESSE GRAY ROWE, Jr., Davis, Calif. Filed Apr. 27, 1918. Serial No. 231,242. 4 Claims. (Cl. 61—73.)

1. In a device of the class described, a vehicle; a frame supported on the vehicle; a rotary boring means journaled on the frame; a post-driving means carried by the frame; an engine on the frame; mechanism for coupling the boring means and the post-driving means to the engine selectively at the will of an operator; and means for pivoting the frame to the vehicle for horizontal swinging movement



whereby the boring means and the post-driving means may be brought one at a time into a single vertical plane.

1,375,067. HYDROCARBON-MOTOR. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed June 11, 1917. Serial No. 174,168. 4 Claims. (Cl. 123—96.)

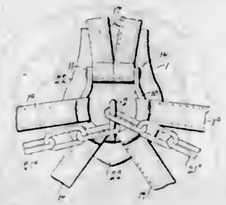


1. In an internal combustion engine, a crank shaft; a valve operating shaft; a gear carried by said crank shaft and comprising a hub portion secured thereto and provided with a recess, a rim portion surrounding said hub portion and provided with a recess adapted to register with the recess in said hub portion, a coil spring located within said recesses and through which one of said gear portions is driven from the other, a pin located within said spring and the ends of which are adapted to engage the end walls of said recesses to thereby limit the extent of relative movement between said hub and rim portions permitted by said spring, and two annular clamping plates secured to said hub portion one upon each side thereof and which clamping plates extend over the recesses aforesaid and the peripheries of which engage the sides of said rim portion to thereby prevent lateral movement thereof; and a second gear carried by said valve operating shaft and with which said first mentioned gear is in mesh.

1,375,068. TRACE-CARRIER. TALY C. THARALSON, Jamestown, N. D. Filed July 20, 1918. Serial No. 245,894. 1 Claim. (Cl. 54—56.)

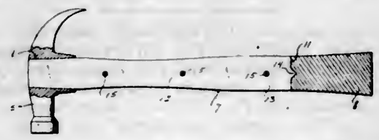
A trace carrier comprising a body having the form of a segment of an annulus, the ends of said body extending

outwardly in spaced parallel relation to each other, a bolt extending through said ends, a spacing sleeve on the bolt, and a hook formed integral with the bight portion of the body diametrically opposite the opening in the body and extending toward said opening, the hook being disposed



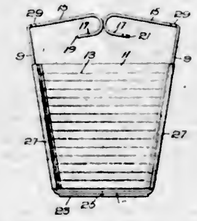
in a plane at right angles to the plane of the body, said hook extending from the bight portion of the body in spaced approximately parallel relation thereto, the free end of the hook being bent downward and inward into alinement with the body of the carrier.

1,375,069. TOOL-HANDLE. JOSEPH ARTHUR TURGEON, Providence, R. I. Filed June 3, 1920. Serial No. 386,271. 1 Claim. (Cl. 145—61.)



The combination with a tool head having an eye, a handle having a longitudinal slot extending through one end of the handle and terminating adjacent the opposite end of the handle, of a reinforcing plate disposed within said slot, a spur projecting from one end face of the plate, said spur being adapted to penetrate the end wall of the slot, the opposite end of the plate and handle being disposed within the eye of the tool head and coacting with the spur to prevent movement of the plate within the slot of the handle.

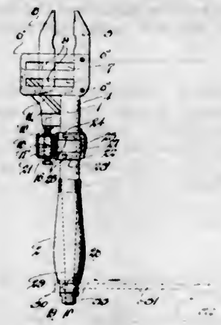
1,375,070. COLLAPSIBLE CONTAINER. WILLIAM M. WHEILDON, Ashland, Mass., assignor to Edward H. Angier, Framingham, Mass. Filed Jan. 24, 1917. Serial No. 144,270. 10 Claims. (Cl. 150—48.)



1. A collapsible, unitary, individually portable container comprising a resilient frame substantially of U-shape, a flexible bag extending between the arms thereof, and means to hold said arms abnormally pressed toward one another to provide for fullness of the bag, said means extending across the mouth of the bag and constituting a bail-like handle for the container.

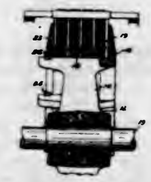
1,375,071. WRENCH. BERNARD V. APFELD, Spokane, Wash. Filed Aug. 10, 1920. Serial No. 402,610. 4 Claims. (Cl. 81—116.)

1. The combination with a fixed jaw and its laterally projecting guide frame, of a parallel jaw movable in said frame, a longitudinally movable block guided in the frame and having a cam slot therein, a pivoted shoe on



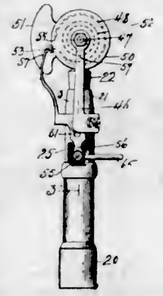
the movable jaw slidable in said slot, and means for moving said block, for the purpose described.

1,375,072. METHOD OF AND MEANS FOR ASSEMBLING CORE LAMINATIONS. CHARLES ATKINS, Cincinnati, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 19, 1916. Serial No. 73,261. 14 Claims. (Cl. 171—206.)



7. The method of assembling laminæ in position on a support which comprises compressing said laminæ to their fully assembled condition on said support, disposing a clamping device between said compressed laminæ and a shouldered portion of said support to retain said laminæ in fully assembled condition on said support, and distorting a portion of said clamping device to a position wherein an end one of said laminæ coöperates therewith to prevent removal of said clamping device from said support.

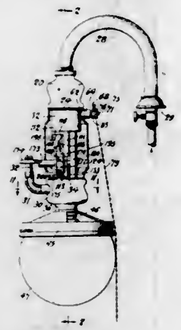
1,375,073. AUTOMATIC VALVE-CLOSER. AURELIO BARCHIESI, Jersey City, N. J., assignor of one-half to Angelo Baratta, Jersey City, N. J. Filed Aug. 5, 1919. Serial No. 315,444. 1 Claim. (Cl. 67—117.)



The combination in a gas burner of a tip end having a chamber extending to the outside thereof, a top wall and a bottom wall for the chamber, a valve spindle extending through to bottom wall, a valve secured to the spindle and

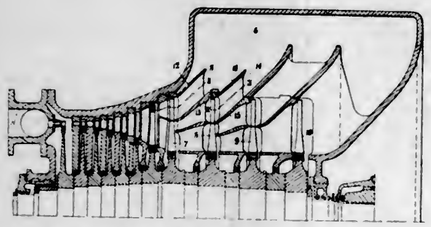
coacting with a valve seat formed in the wall of the tip end, a bypass port formed in the wall of the tip end extending around said chamber, a spring located to be heated by the heat of the light from the gas tip and connections between the said spring and valve.

1,375,074. DOUBLE AUTOMATIC VALVE-CLOSER. AURELIO BARCHIESI, Jersey City, N. J., assignor of one-fifth to Angelo Baratta, Jersey City, N. J., one-fifth to Giovanni Squarcialupi and one fifth to Louis L. Bolline, New York, N. Y. Filed May 29, 1920. Serial No. 385,140. 4 Claims. (Cl. 67—117.)



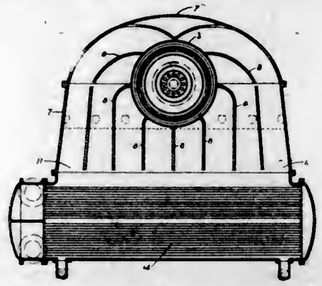
1. In an automatic valve closer the combination of a gas outlet for a light, a valve chamber, a main gas valve for said chamber, a valve spindle for the valve, a cross head connected to the said spindle, a locking heel in the cross head, a starting pin and a supporting spring connected to the cross head, a bracket supporting said chamber and having guides for the cross head, a journal plate connected to the said bracket, a bell crank journaled to said plate and having a locking pin and two other pins extending therefrom, a pair of springs connected to said two other pins, the said springs located in the heat zone of said light, the said locking pin of said bell crank being maintained distant from said locking heel by said springs when cool and locked with said heel when said springs are heated and means to manually raise the cross head and thereby locate the supporting spring on the locking pin of the bell crank.

1,375,075. STEAM-TURBINE. KARL BAUMANN, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited, a Company organized under the laws of Great Britain. Filed Aug. 24, 1917. Serial No. 187,962. 6 Claims. (Cl. 60—64.)



1. In an axial flow steam turbine, a steam receiving chamber adapted to receive the steam passing through the turbine stages upon a plurality of annular, deflecting surfaces, the angle of deflection of each surface varying proportionally with the velocity of the steam received thereupon.

1,375,076. RADIAL-FLOW STEAM-TURBINE. KARL BAUMANN, Urmston, England, assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Sept. 29, 1917. Serial No. 194,056. 7 Claims. (Cl. 60—95.)

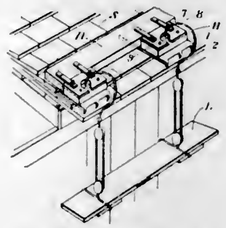


1. The combination with a radial flow turbine, a condenser disposed at one side of the turbine, and a series of disphragms forming exhaust passages opening radially at the periphery of the last row of blading and leading to different points along the condenser whereby steam exhausting from definite points of the periphery is conducted to definite points along the condenser.

1,375,077. HIGHLY-REFRACTORY ARTICLE AND METHOD OF PRODUCING THE SAME. HENRY H. BUCKMAN, Jacksonville, Fla., and GEORGE A. PRITCHARD, New York, N. Y., assignors to Buckman & Pritchard, Inc., Jacksonville, Fla., a Corporation of Florida. Filed Oct. 9, 1919. Serial No. 329,610. 15 Claims. (Cl. 106—11.)

1. In the manufacture of a refractory composition, or material, the step which consists in incorporating zircon into the batch.

1,375,078. SCAFFOLD-BRACKET. CARL BUECHEL, New Glarus, Wis. Filed July 28, 1920. Serial No. 399,551. 1 Claim. (Cl. 304—19.)

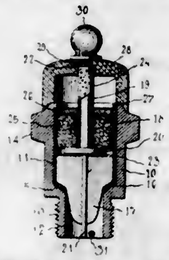


As a new article of manufacture, a shingle bracket comprising a metallic base plate whose upper end constitutes a lip for insertion under the shingles of one row and whose lower end is toothed and bent downward for engagement with the shingles of a lower row, a block upon said plate and having a socket in its upper face for the tip of a scaffold supporting hook, a wear plate overlying said face and having an opening surrounding said socket, bolts through the plates and the interposed block, and a pair of tongues pivotally mounted at their lower ends on the upper bolts and adapted to be turned over said plate and block or to be swung into position above said lip.

1,375,079. SPARK-PLUG. ALBERT CHAMPION and ALBERT SCHMIDT, Flint, Mich., assignors to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Sept. 25, 1918. Serial No. 255,582. 11 Claims. (Cl. 123—169.)

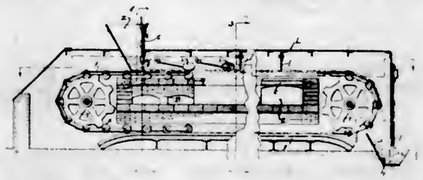
1. A spark plug comprising a shell, a central electrode, a porcelain insulator tip supported within the lower

portion of said shell about the sparking end of said electrode, a mica insulator filling the space within said shell above said porcelain insulator and the upper end



of which lies below the upper end of said shell, and means for retaining place within said insulators and said electrode in said shell.

1,375,080. DRYING FINELY-DIVIDED MATERIALS. HOWARD F. CHAPPELL, New York, N. Y. Filed Nov. 14, 1918. Serial No. 262,450. 10 Claims. (Cl. 263—21.)



1. A drier for finely-divided material, comprising an upper and a lower compartment separated by a movable platform, the lower compartment constituting a flue for the passage of heating gases, an inlet below said platform for admitting the heating gases to the flue and an outlet also below said platform for discharging the gases from the flue, and means for supplying the material to be dried to the upper side of the platform; substantially as described.

1,375,081. ACID-RESISTING ALLOY. ALVAH W. CLEMENT, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Continuation of application Serial No. 182,912, filed July 26, 1917. This application filed July 27, 1918. Serial No. 246,990. 8 Claims. (Cl. 75—1.)

1. An acid resisting alloy containing approximately 40 per cent. of chromium, a metal having the properties of molybdenum, together with iron and carbon.

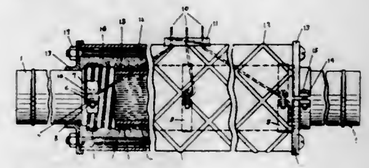
1,375,082. ALLOY. ALVAH W. CLEMENT, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 15, 1918. Serial No. 249,950. 5 Claims. (Cl. 75—1.)

1. An alloy containing as its principal ingredients molybdenum and a metal having the properties of nickel and cobalt together with an appreciable amount of manganese, the manganese being present in amounts not greater than 4%.

1,375,083. ALLOY. ALVAH W. CLEMENT, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 15, 1918. Serial No. 249,951. 5 Claims. (Cl. 75—1.)

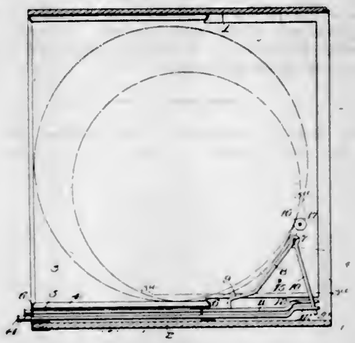
1. An alloy containing as its principal ingredients molybdenum and metal having the properties of nickel and cobalt and iron, the iron being present in quantity not greater than 10 per cent.

1,375,084. ELECTRIC HEATING ELEMENT AND METHOD OF MAKING THE SAME. JOHN W. COX, Erie, Pa., assignor of one-fourth to George R. Metcalf and one-fourth to Edward E. Walker, Erie, Pa. Filed Feb. 3, 1919. Serial No. 274,630. 5 Claims. (Cl. 219—63.)



1. In an electric heating element, the combination of a tubular heat transmitting core; an insulating material arranged thereon; a heating coil wound on the insulating material; a clamping band securing the end of the coil on the insulating material and forming an electric connection therewith; a screw for the clamp forming a terminal for the coil and supplementing the connection through the clamp; and a conductor extending from the screw.

1,375,085. DISK-RECORD CABINET. ARTHUR J. CRIPPEN, Rochester, N. Y., assignor to Crippen Record File Corporation. Filed Jan. 25, 1916. Serial No. 74,106. 2 Claims. (Cl. 211—16.)

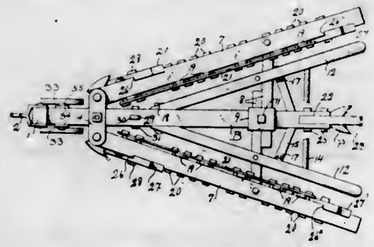


1. In a disk record cabinet, the combination with a record compartment, of an ejecting device comprising a pivoted angle arm which extends downwardly from its pivotal point and includes a forward portion for engagement with the edge of a record and a downwardly projecting rear portion, and an actuating member arranged beneath the ejecting device and provided with an opening in which engages the extremity of the rear portion of said angle arm.

1,375,086. HARROW. JAMES C. FAUBION, Hope, Ark., assignor of one-half to Lewis B. Moore, Hope, Ark. Filed July 3, 1918. Serial No. 243,191. 1 Claim. (Cl. 55—125.)

A harrow comprising a central beam, side beams pivotally connected at one of their ends to the beam, each of said side beams being provided with an adjustable bracing arm which is pivoted at one end thereto, the opposite ends of each of the arms extending toward each other, a relatively broad U-shaped clamp carried by the central beam adjacent the arms, the arms of said clamp having elongated registering slots, said slots extending laterally of the arms and adapted to receive the last mentioned end portions of the arms, said arms being disposed in the slots in parallel relation to each other, the

upper surface of each of the last mentioned end portions of the arms engaging the lower surface of the central beam, the bottom surface of each of the last

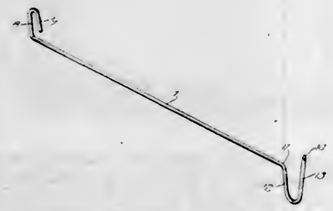


mentioned portions of the arms engaging the bottom of the slots, and means carried by the clamp for forcing said arms simultaneously into engagement with the beam.

1,375,087. SEPARATION OF MIXED SULFID ORES. CHARLES FAUL, St. Kilda, and HENRY LAVERS, Surrey Hills, Victoria, Australia, assignors, by mesne assignments, to Minerals Separation North American Corporation. Filed Mar. 12, 1915. Serial No. 14,015. 14 Claims. (Cl. 83—85.)

1. A process for the concentration of a mixed sulfid ore which consists in submitting such an ore to froth-flotation separation in the presence of a copper material and a bichromate of an alkaline metal, to obtain a float concentrate relatively rich in certain sulfids and a residue relatively rich in other sulfids.

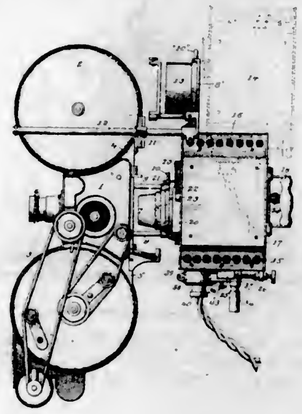
1,375,088. TOOL. CHARLES H. FRIES, Chicago, Ill. Filed July 29, 1918. Serial No. 247,148. 1 Claim. (Cl. 7—17.)



A tool comprising a rod having one end bent into a hook for fitting over the handle of a pet-cock to turn the same and lying in a plane substantially at right angles to the plane of the body of the rod, and having its other end bent into a pet-cock cleaning hook which lies in the plane of the body of the rod at which the plane of the first hook is at right angles, said hooks acting alternately as handles for properly positioning and readily operating the hook at the other end.

1,375,089. OPTICAL PROJECTION APPARATUS. JOSEPH GRANZ, Duluth, Minn. Original application filed Mar. 28, 1919, Serial No. 285,760. Divided and this application filed Feb. 21, 1920. Serial No. 360,529. 6 Claims. (Cl. 88—24.)

1. A motion picture machine and an optical projection apparatus secured in associated relation and each provided with an individual condenser at the rear end, each condenser having an inclosing frame, a single lamp house provided at its forward end with a saddle flange, and interengaging means on said saddle flange and the inclos



ing frames of said condensers for attaining detachable connection of the lamp house to either of said condensers.

1,375,090. CHAIN-CLASP. RUDOLF G. GRODE, Norwood, R. I. Filed Sept. 23, 1920. Serial No. 412,276. 1 Claim. (Cl. 24—239.)

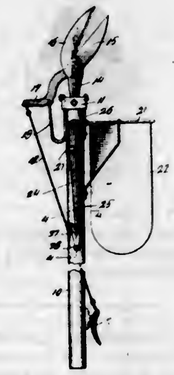


A chain clasp comprising an elongated flat-sided coupling member bent at one end to form a closed eye adapted to permanently engage one of two chain links to be connected, and bent at its opposite end to form an open hook adapted to separably engage the other of said links; an abutment collar confined on the coupling member by said eye; a tubular slide having at one end a circular orifice formed to permit said collar to slide therein, and at its opposite end a contracted portion forming a spring seat, a flat-sided orifice in said contracted portion, and a keeper at one side of, and in close proximity to, said orifice, and offset inwardly from the perimeter of the slide, the flat sides of the coupling member and of the orifice preventing rotation of the slide on the coupling member, and maintaining the hook in alinement with the keeper; and a spring within the slide, bearing at one end on said contracted portion, and at the opposite end on said collar to normally maintain the keeper in engagement with the hook, the form and arrangement of the keeper being such that the keeper is adapted to coöperate with a hook, the diameter of which is less than that of the slide, such hook and the keeper constituting a member approximating the chain links in size and form.

1,375,091. TREE-TRIMMER. JOHN HALICKI, Dunkirk, N. Y. Filed Apr. 29, 1920. Serial No. 377,526. 1 Claim. (Cl. 30—11.)

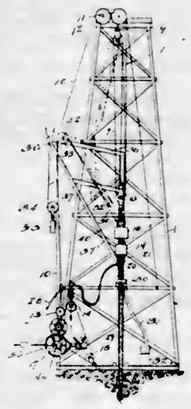
In a device of the class described, the combination of a staff having a collar at its upper end, of a saw pivotally mounted a spaced distance from the upper end of said staff, said saw provided with a slot adjacent its pivoted end, a bolt passing through the upper end of said staff and through said collar, said bolt extending beyond said

collar so as to engage the slot of said saw when same is in an operative position, a hook pivotally mounted on said



bolt and adapted to engage one edge of said saw so as to hold said slot in engagement with the bolt, and means provided for holding said saw in an inoperative position.

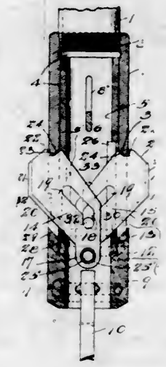
1,375,092. EARTH-BORING MACHINE. GUSTAF W. HANSON, Wichita, Kans. Filed July 24, 1920. Serial No. 398,784. 7 Claims. (Cl. 255—19.)



1. The combination in an earth boring machine with a supporting tower, of a suspended vertically reciprocable power unit, a drill head, drilling tool and well casing supported from said unit, and means for laterally moving said power unit, when the latter is disconnected from said supported elements, to adjusted position for the purpose set forth.

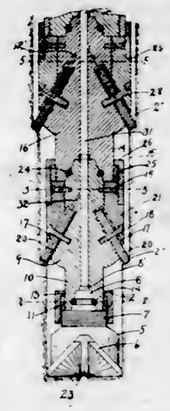
1,375,093. DRILLING-TOOL. GUSTAF W. HANSON, Wichita, Kans. Filed July 24, 1920. Serial No. 398,785. 7 Claims. (Cl. 255—76.)

1. The combination with a slotted inclosing tool-shank, of a complementarily slotted mandrel, a transverse key in the shank in guide slots of the mandrel, a pair of reaming blades pivoted in the mandrel and adapted to be pro-



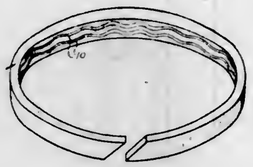
jected through the complementary slots, and means on the blades co-acting with the slotted shanks for locking said blades in projected position.

1,375,094. REAMER. GRANVILLE A. HUMASON, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Jan. 5, 1920. Serial No. 349,644. 11 Claims. (Cl. 255—73.)



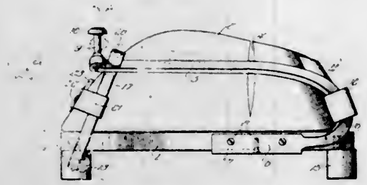
1. In a rotary reamer the combination of a head, and two opposite disk-shaped cutters mounted therein on pins inclined from the longitudinal axis of the head, the outer end of said pins supported in detachable plates dovetailed in said head, retaining means therefor comprising a second head adjacent thereto and a locking ring threaded thereon, and an inner longitudinal lug on said dovetailed plate for the purpose described, said plate and lug adapted to contact with the retaining means adjacent thereto.

1,375,095. PISTON-RING. PERCY F. HINCKLEY, Meriden, Conn., assignor to Foster, Merriam & Company, a Corporation of Connecticut. Filed Mar. 24, 1920. Serial No. 368,273. 7 Claims. (Cl. 74—109.)



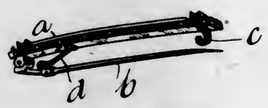
1. A piston ring the inner surface of which is provided with longitudinal, rolled corrugations, said corrugations being deepest at the point opposite the opening in said ring and decreasing in depth toward the ends of said ring.

1,375,096. HORSESHOE. JOSEPH HIRSCHENFELD, Oak Park, Ill. Filed Sept. 5, 1919. Serial No. 321,749. 2 Claims. (Cl. 168—22.)



1. A horsesboe comprising a metal sole, an upper of pliable material secured to said sole, yieldable clamping bars mounted on said sole and yieldingly embracing said upper, said sole being provided with detachable heel lugs, and locking bars mounted on said heel lugs and acting to detachably engage said clamping bars.

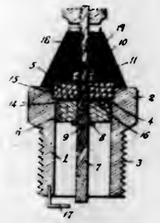
1,375,097. BROOCH. FREDERICK HART HORTON, Birmingham, England. Filed Mar. 31, 1920. Serial No. 370,187. 2 Claims. (Cl. 24—160.)



2. For resiliently supporting the hinged fastening member or pin of brooches and similar articles, a device comprising in combination a clip part of split tubular form adapted to embrace the fastening member or pin, a spring part which projects from that end of the said clip part which is adjacent to the pin hinge when the device is in position, the said spring part being bent back upon itself to form a spring loop *f*, and a resilient blade extending from said loop at an acute angle to said clip part, said blade terminating in a crutch extremity.

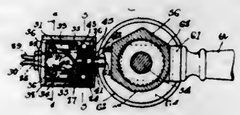
1,375,098. SPARK-PLUG. AUGUSTUS B. KINZEL, New York, N. Y. Filed July 11, 1919. Serial No. 310,081. 3 Claims. (Cl. 123—169.)

1. A spark plug comprising a bushing having an internal annular flange near its upper end, an electrode axially positioned in said bushing, an insulating plug of mica mounted on the electrode within the bushing and engaging the lower end of said flange, and an insulating plug mounted on the electrode engaging the upper side of said flange, means on said electrode and coöperating therewith to clamp the two plugs against the opposite



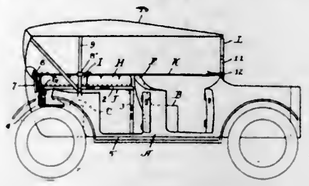
sides of said flange and a relatively soft yielding insulation surrounding said electrode above the insulating plugs having a fabric reinforcement.

1,375,099. COMBINED FAUCET AND SWITCH. WILLIAM G. LINDEMANN, Milwaukee, Wis., assignor to Ozone Company of America, Milwaukee, Wis., a Corporation of Delaware. Filed Feb. 15, 1919. Serial No. 277,294. 2 Claims. (Cl. 200—53.)



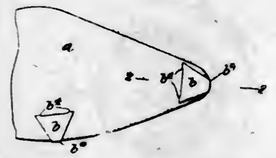
1. In a circuit closer, the combination with a block of insulating material and a pair of contacts mounted thereon, of a member secured to the block and having flanged extensions projecting from one side of the block, and screws for moving the flanges on said extensions into clamping engagement with a support.

1,375,100. BED FOR AUTOMOBILES. WILLIAM C. LUNDSTROM, Minneapolis, Minn. Filed Aug. 7, 1918. Serial No. 248,758. 1 Claim. (Cl. 5—72.)



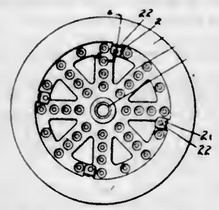
In combination with an automobile body provided with front and back seats having seat backs and removable seat cushions, a flexible bed stretched horizontally substantially the full length of the body lying under the cover in substantially a horizontal plane over the back and front seats and closely over the upper edge of the back of said front seat, means for detachably fastening said bed in said outstretched condition at its ends and sides to parts of said body, and a plurality of unconnected foldable frames each having a front leg adapted to rest on the floor of the body in front of the back seat, a back leg adapted to rest on the back seat and a supporting top member hinged to said legs and supported in substantially horizontal and longitudinal position at a distance below said flexible bed and adapted to sustain the seat cushions closely between the back of the front and back seats with their upper surfaces lying substantially even in height with the top of the back of the front seat and to yieldingly support the flexible bed in said horizontal plane.

1,375,101. PROTECTOR FOR THE TREAD MEMBERS OF SHOES. DAVIS MARINSKY, New York, N. Y. Filed July 9, 1920. Serial No. 394,903. 1 Claim. (Cl. 36—74.)



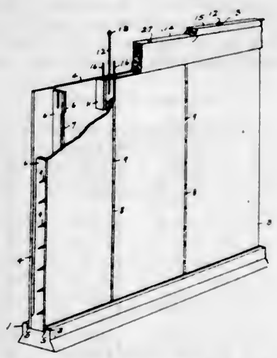
A tread protector of the class described composed of a triangular sheet of metal, one of the corner portions of said sheet being provided with a narrow hook-shaped member adapted to engage the edge portion of that part of the tread member to be protected, and means at the other corner portions of said sheet for securing the same to the bottom face of the tread member.

1,375,102. WASHING AND SCRUBBING BRUSH. JESSE R. MASSER, Three Rivers, Mich., assignor to Turbine Auto Washer Company, Three Rivers, Mich., a Corporation of Michigan. Filed June 26, 1920. Serial No. 391,884. 10 Claims. (Cl. 15—37.)



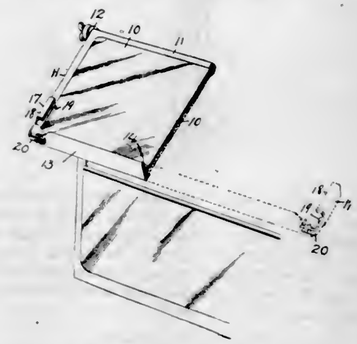
8. In a device of the class described, the combination of a chambered body having a flange forming a peripheral wall with a series of openings therein, said body having a handle constituting a supply connection, a border brush mounted on said body over said openings, a rotor mounted in said body and having annularly disposed buckets open at the top and bottom, said supply connection delivering to said body above the rotor, a brush mounted on said rotor at the inner side of its buckets, and an annular deflector plate disposed between said brushes and in alinement with and in a spaced relation to the open discharge ends of the buckets.

1,375,103. WALL CONSTRUCTION. EDWARD F. NEEDHAM, Houston, Tex., assignor of one-half to James Donald Hall. Filed Aug. 11, 1920. Serial No. 402,774. 2 Claims. (Cl. 72—16.)



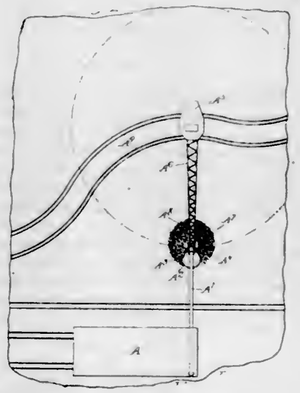
1. A wall construction, including opposing side slabs spaced apart, the edges of said slabs being formed with ribs which extend toward the opposing slabs at approximately right angles thereto, the ribs of the adjacent edges of adjoining slabs fitting together, a cap plate fitted onto the upper edge of the wall, and means for anchoring the same in position thereon, said cap plate having air circulating openings therethrough which communicate with the space between said opposing side slabs.

1,375,104. GUTTER FOR WINDSHIELDS. JOHN PERSON, Netcong, N. J. Filed Oct. 27, 1919. Serial No. 333,524. 3 Claims. (Cl. 296—93.)



2. A gutter for the panes of wind shields comprising an elastic strip with parallel flanges on its top surface so that a groove is formed at the rear of the strip for the bottom edge of the pane, and channeled clips secured to the ends of the strip, said clips being adapted to engage the side edges of the wind shield so that the strip is under a longitudinal tension which holds the clips in place and forces the flanges in close engagement with the faces of the wind shield.

1,375,105. COAL-HANDLING APPARATUS. JOHN H. D. PETERSEN, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1918. Serial No. 249,468. 16 Claims. (Cl. 214—10.)



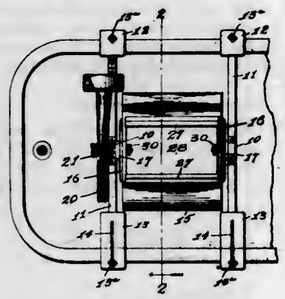
1. An apparatus for handling material comprising a conveyer adapted to carry material in either direction between a distribution point and an intermediate point, a second conveyer adapted to carry such material in either direction between the intermediate point and a storage point and a third conveyer adapted to carry the material from the intermediate point to the adjacent end of the first conveyer.

1,375,106. OIL-WELL WASHER. CHARLES PFEIFFER and FRANK A. WASSON, Milwaukee, Wis. Filed July 6, 1920. Serial No. 394,254. 6 Claims. (Cl. 166—20.)



1. In a well washing apparatus, the combination of a flushing nozzle movable to different heights within the well cavity, means for conducting wash liquid to said nozzle from a point above ground, a suction pipe extending into the cavity and forming a guide for said nozzle, and a suction pump connected with said pipe for removing the wash liquid from the cavity.

1,375,107. WASHING-MACHINE. KITTY RAYBURN, St. Louis, Mo. Filed Nov. 2, 1918. Serial No. 260,862. 1 Claim. (Cl. 259—81.)

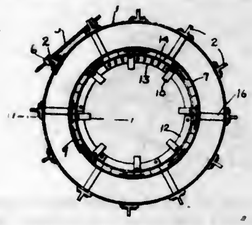


A washing machine comprising an imperforate cylindrical drum having longitudinal corrugations and having an opening formed in its face, a leak proof closure for said opening transversely curved to conform to the corrugations of the body of the drum, means for holding the closure in position on the drum, shafts extending from each end of the drum, bearings for supporting said shafts, adjustable brackets integrally formed with the lower portion of said bearings, a driven member secured to one of said shafts, a motor mounted upon one of said brackets adjacent said member for operating the same, and means at the ends of said brackets for adjustably securing the same to a means of support.

1,375,108. PROCESS OF FORMING TUBES. HERBERT C. REES, San Antonio, Tex. Filed Oct. 20, 1919. Serial No. 332,072. Renewed Feb. 1, 1921. Serial No. 441,658. 5 Claims. (Cl. 93—80.)

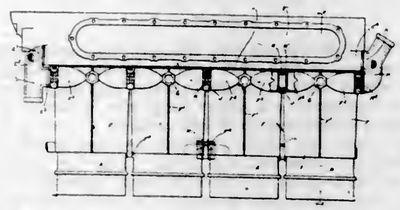
3. The process of making a tube of cellular material which consists in wrapping a moistened strip of the material on a large mandrel to form a tubular member, placing said tubular member on a smaller mandrel and bodily compressing the tubular member to conform to the diameter of the smaller mandrel.

1,375,109. CONCRETE-BUILDING MOLD. JAY A. ROSSITER and CURTIS C. SANER, Houston, Tex. Filed June 14, 1920. Serial No. 388,818. 4 Claims. (Cl. 25—124.)



1. A mold for concrete building structures comprising in combination an outer shell formed of a series of reversible tapered plates of uniform construction secured together at their lateral edges by T-bars, said bars being perforated, a tightening bolt fitting in said perforations for securing together two adjacent T-bars, an inner shell of similar tapered plates secured together at their margins by flat attaching plates, hangers on the inner faces of said plate, a retaining ring of angle iron supported on said hangers, removable spacing blocks at the upper ends of said shells, and means to tighten said inner wall in the desired position comprising wedges between said retaining ring and said inner shell.

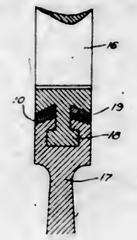
1,375,110. CYLINDER OF INTERNAL-COMBUSTION ENGINES. ARTHUR JOHN ROWLEDGE, London, England, assignor to D. Napier & Son Limited, London, England. Filed Nov. 8, 1918. Serial No. 261,754. 8 Claims. (Cl. 123—173.)



1. In an internal combustion engine the combination of a cylinder having an integral head in which are inlet and exhaust port openings, a water jacket around the body of the cylinder, passages for the flow of water into and out of this jacket, a detachable casting constituting the water jacket for the cylinder head on to which the casting is adapted to fit closely, said water jackets being independent and non-communicating, passages for the flow of water into and out of the casting, inlet and exhaust passages in the head casting coincident with the port openings in the cylinder head, and means for detachably connecting the head casting to the cylinder as set forth.

1,375,111. BLADE-MOUNTING. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1917. Serial No. 158,978. 8 Claims. (Cl. 253—77.)

1. In combination, a blade element, a blade mounting element, a T-shaped tongue formed on one of said elements, an undercut groove formed in the other element and adapted to engage the tongue, wedge bearing surfaces on the tongue bearing element extending on each side from and obliquely to the shank of the tongue, opposed wedge bearing surfaces on said grooved element extending from each side of and obliquely to the groove, said wedge bearing surfaces lying in planes diverging toward the center of said elements and wedges disposed between said bearing surfaces adapted to hold said elements against relative lateral displacement.



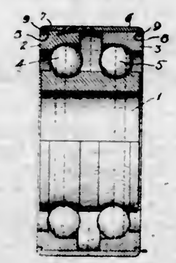
2. In combination, a blade element, a blade mounting element, an undercut groove formed in one of said elements, a tongue formed on the other element adapted to engage said groove, wedge bearing surfaces formed on the tongue carrying element on opposite sides of the tongue, opposed wedge bearing surfaces formed on the grooved element and extending from each side and obliquely to the engaging surfaces of the groove, and wedges disposed between said bearing surfaces to hold the sides of the grooved element against lateral displacement.

3. The combination with a blade mounting member and a blade member having tongue and groove engagement, the grooved member having a shoulder, and the tongue carrying member being provided with an opposed shoulder spaced from the shoulder of the grooved member so as to form an undercut channel between the shoulders obliquely disposed with respect to the engaging surfaces of the tongue and tongue groove, of a wedge disposed between said shoulders and adapted to hold the members against relative lateral displacement.

4. In combination with a blade element, a blade mounting element, a tongue on one of said elements, a groove in the other element and adapted to engage said tongue, a shoulder formed on the grooved element spaced from the tongue carrying element so as to form a channel between the said shoulder and said tongue carrying element, the inner portion of the channel being of greater width than the outer portion thereof and a wedge disposed in the said groove adapted to hold the said elements against relative lateral displacement.

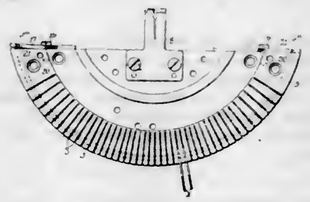
5. In combination with a blade element, a blade mounting element, a tongue on one of said elements, a groove in the other element adapted to engage said tongue, opposed wedge seats formed on the said elements and extending in planes oblique to the engaging surfaces of the tongue and tongue groove, and wedges bearing between said inclined wedge seats adapted to hold said elements against relative lateral displacement.

1,375,112. BALL-BEARING. RAYMOND R. SEARLES, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 19, 1920. Serial No. 417,942. 6 Claims. (Cl. 64—36.)



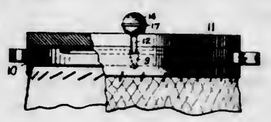
6. In a ball bearing, inner and outer bearing rings having complementary race ways therein, one of said rings being made in sections, each of said sections having a shoulder thereon, a flanged sleeve engaging each of said sections with the flanges abutting said shoulders, said sleeves being welded together to form a complete bearing ring.

1,375,113. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,385. 6 Claims. (Cl. 197—38.)



1. In a typewriting machine, the combination of a type bar support, type bars, a pivot wire for said type bars, a pivot wire tightener, and an elastic element controlled by said tightener and effective on the end of said pivot wire to press it downward.

1,375,114. FASTENING DEVICE FOR LADIES' HANDBAGS OR VANITY-CASES. SETH W. SHEPARD, Leominster, Mass., assignor to The Howe Comb Company, a Corporation of Massachusetts. Filed Oct. 14, 1920. Serial No. 416,983. 4 Claims. (Cl. 292—63.)



1. The combination with the top of a hand bag and a cover hinged thereto and in contact therewith throughout its top surface, said top having a depression in its edge opposite the hinge, of a pivoted fastening device therefor comprising a freely swinging shank pivoted in said depression in the top, with a smooth surfaced globular holding member mounted thereon, said cover having an open-ended slot having a depression for receiving said holding member.

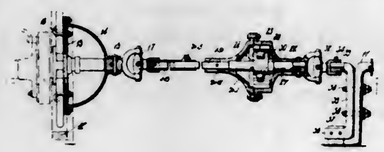
1,375,115. PROCESS OF PRODUCING FERTILIZER. MARK SHOELD, Chicago, Ill., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 13, 1920. Serial No. 409,867. 5 Claims. (Cl. 71—7.)

1. The method of drying wet precipitated phosphate in a manner to prevent dusting thereof consisting in drying a mixture having as ingredients the wet precipitated phosphate and a material to prevent dusting thereof, substantially as described.

1,375,116. PRODUCTION OF ALUMINUM CHLORID. MARK SHOELD, Chicago, Ill., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 5, 1920. Serial No. 421,849. 8 Claims. (Cl. 23—13.)

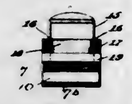
1. The process of producing aluminum chlorid consisting in heating alumina to a temperature of approximately 1600 to 2000 degrees centigrade for a period of time to render it substantially completely anhydrous and then subjecting it in the presence of carbon to the action of chlorin, substantially as described.

1,375,117. CRANKING DEVICE FOR INTERNAL-COMBUSTION ENGINES. BLAINE H. SMITH and JOHN C. WARNER, Tonkawa, Okla. Filed June 29, 1920. Serial No. 392,859. 7 Claims. (Cl. 74—106.)



5. A device of the character described including a ratchet casing, a linearally adjustable drive shaft fixed thereto for rotating the casing, a driven shaft journaled by the casing, a ratchet within the casing forming an operative connection between said shafts, and means for operatively connecting the driven shaft with an engine crank shaft.

1,375,118. GARMENT-SUPPORTER. MARY STARMER, Newport News, Va. Filed Nov. 22, 1919. Serial No. 339,816. 5 Claims. (Cl. 24—190.)



1. The combination in a hose supporter with a web and end attaching means, of a buckle having a fixed guide plate and secured at the lower end of the web, and a U-shaped pin having guide devices slidable between the buckle and plate.

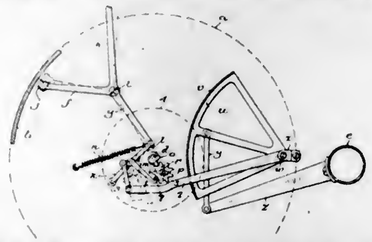
1,375,119. TOW-ROPE AND HITCH. DAVID G. STEPHEN, Monrovia, Calif. Filed Dec. 19, 1919. Serial No. 346,198. 1 Claim. (Cl. 24—129.)



A device for attaching the eye splice of a rope to the main strand thereof, comprising a wire convolved once to form a continuous spring retaining loop, the lapping ends of the loop being so arranged that the main strand of a rope may be forced into the eye thereof, said wire having its respective ends extended in the same plane with open hooks formed at the extremities, the hooks being parallel and facing outwardly away from the loop whereby to engage the opposite sides of the eye splice and press the end thereof into engagement with the main strand of the rope.

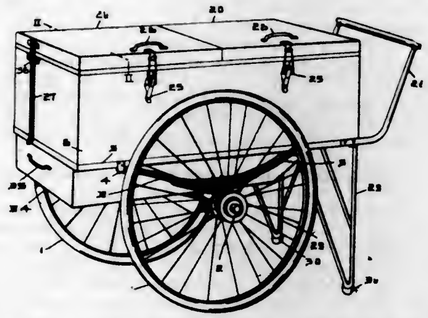
1,375,120. AUTOMATIC-STOP FOR GRAMOPHONES. OLE O. STORLE, Tacoma, Wash. Filed Feb. 7, 1919. Serial No. 275,525. 6 Claims. (Cl. 192—116.)

1. In an automatic stop for gramophones, the combination of a segment pinion on the turn table spindle, a gear arranged to mesh with said pinion and having a lateral projection adjacent its periphery, a brake lever, a toggle joint arranged when straigthened to hold the brake in off position, a spring tending to apply the brake; a trip arm pivotally connected with the toggle joint and movable into and out of the path of the lateral projection on said gear, an oscillatory friction member having an actuating connection with the tone arm, and a pivoted drag arm



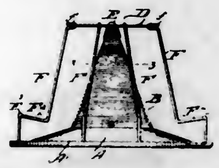
engaging said friction member and connected with the trip arm, said drag arm being adapted to be alternately swung toward and from the turn table spindle by said friction member and the projection on said gear.

1,375,121. FOOD-CONVEYER. CHARLES E. SWARTZBAUGH, Toledo, Ohio. Filed Jan. 6, 1919. Serial No. 269,877. 6 Claims. (Cl. 296—24.)



1. A container pocket having an opening surrounded by an endless seat, a vessel entering said pocket and having suspending means engaging said seat, a vessel closure having a seat opposing the pocket seat for engaging the vessel suspending means, and a container closure yieldably engaging the vessel closure for maintaining sealing of the vessel.

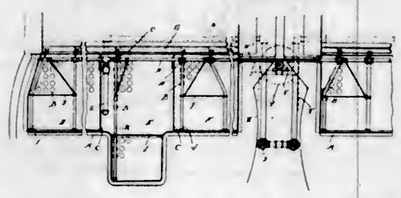
1,375,122. TOASTER. RUSSELL F. TEALL, Toledo, Ohio, assignor to Charlotte J. Willis, Ann Arbor, Mich. Filed Mar. 15, 1920. Serial No. 366,104. 2 Claims. (Cl. 53—5.)



2. In a toaster, the combination of an annular truncated cone-shaped base, having a marginal upstanding rim, a cone-shaped heater extending upwardly from the base, a sheet metal disk secured to the top of the heater, and a plurality of wires spaced apart and extending from the disk to the cone-shaped base and respectively formed with upwardly inclined stepped portions, the outer end of each stepped portion being bent upwardly to form a stop, the stepped portions and the stops being confined wholly within the diameter of the base and detachably supported

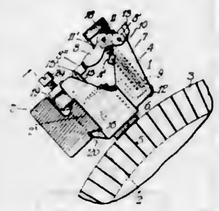
at their lower ends in the joint between the body of the base and the marginal rim thereof, the upper ends of the wires having hooked connections with said metal disk.

1,375,123. BOILER-TUBE CLEANER. HOWARD M. VARIAN, Detroit, Mich. Filed Mar. 15, 1915. Serial No. 14,530. 1 Claim. (Cl. 122—392.)



The combination with a battery of boilers each having a smoke box and tubes opening thereinto, of flue cleaners in said smoke boxes having headers in alinement with each other, an operating connection for said headers arranged in the space between boilers and including a rack-bar connecting said headers, an air conduit at the side of the boiler through which said rack-bar passes, and a tubular housing for said rack-bar in said air conduit, to prevent leakage of air.

1,375,124. BRUSH-HOLDER. WALTER J. WARDER, Jr., Chicago, Ill. Filed Jan. 17, 1918. Serial No. 212,220. 2 Claims. (Cl. 171—323.)

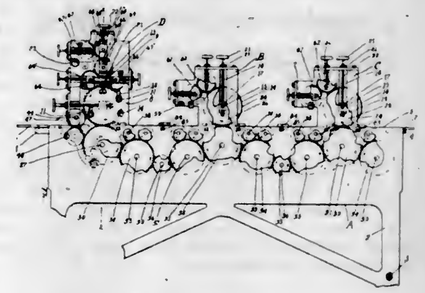


1. In a device of the character described, a brush holder for dynamo-electric machines, a ventilated hollow brush fitting loosely therein, a lever pivoted to the frame of the brush holder, means for urging the lever inwardly toward said brush, and a plunger connected at its outer end to said lever in substantially free and unconstrained swinging relation thereto, said brush having a deep outwardly facing central recess, and said plunger at its inner end being disposed to bear against said brush at the inner end of said recess.

1,375,125. METHOD OF TREATING FIBROUS MATERIALS. WILLIAM WEIMAR, Appleton, Wis. Filed Feb. 5, 1920. Serial No. 356,534. 1 Claim. (Cl. 99—12.)

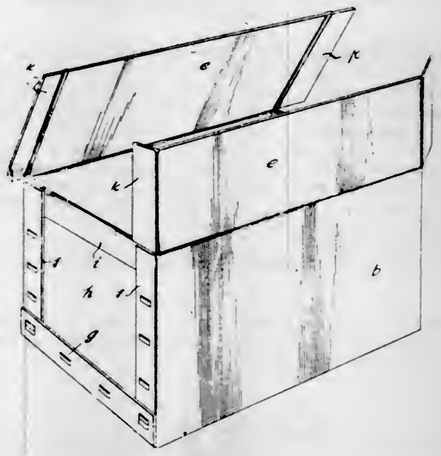
The process of treating fibrous material to render it non-absorbent and to increase its insulating qualities and its texture, which consists in immersing it in a hot solution of sodium carbonate, to drive out resident content from the pores; then removing it from the solution and drying it; then immersing it in a hot hydro-carbon liquid to neutralize the odor produced by the sulfur and to expand the pores; then drying it; then placing it in a solution of sulfur and resin of commerce and maintaining it at temperature sufficient to keep the sulfur in a molten state until the pores of the fibrous material are sufficiently filled, then removing the material from the vat and suddenly cooling it.

1,375,126. PAINTING-MACHINE. THEODOR R. WILLWERSCHEID, St. Paul, Minn. Filed Sept. 25, 1919. Serial No. 326,362. 13 Claims. (Cl. 91—50.)



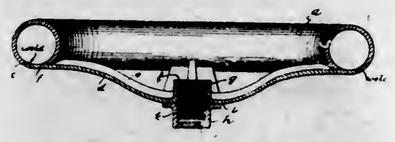
6. A machine of the class described, comprising a frame, an initial rotary paint applying device at one end of the frame, a plurality of spaced secondary rotary paint applying devices spaced from said initial paint applying device, each device including a pair of transversely disposed rotatable rollers adapted to squeeze an automobile tag between them and engage with their circumferential surface when actuated opposite faces of the tag to apply paint on one of them and to advance said tag toward the next succeeding paint applying device, means for actuating said paint applying devices and means actuated by said actuating means for conveying the tag from one paint applying device to the next succeeding paint applying device.

1,375,127. SHIPPING-CASE. HERBERT R. BLISS, Niagara Falls, N. Y. Filed July 17, 1920. Serial No. 396,965. 8 Claims. (Cl. 229—23.)



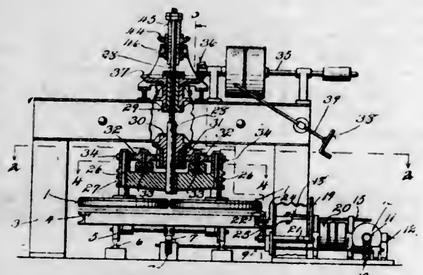
1. A fiber shipping case construction of fiber board or equivalent material, having in combination, a main blank made up of two side walls, a bottom wall and cover wings, each of which is provided with a flap at each end, end blanks comprising each a body portion and a flap, the said blanks being folded and assembled together by inserting the end blanks inside of the flaps of the two side walls and bottom wall when these are folded up into position, fastening these flaps to the body of the end blanks and finally sealing the case by overlapping the cover wings and fastening them along their overlapped portions and then fastening the cover wing flaps to the flaps of the end blanks.

1,375,128. STEERING-WHEEL. HARRY W. BUNDY, Detroit, Mich. Filed Jan. 2, 1920. Serial No. 348,962. 16 Claims. (Cl. 74—33.)



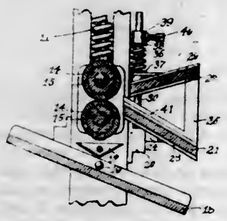
1. A steering wheel spider, comprising a plurality of spider arms, a hub made up of a cylindrical member having a depresssion therein, the said cylindrical member adapted to pass through the center of the steering arms and be secured thereto by pressing the stock of the steering arm into the said depression.

1,375,129. GRINDING AND POLISHING MACHINE. JAMES CARRIE, Newark, N. J., assignor to William D. Sawyer, Milwaukee, Wis. Filed Oct. 27, 1919. Serial No. 333,629. 3 Claims. (Cl. 51—133.)



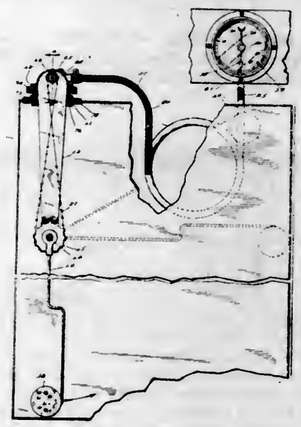
1. A mechanism of the class described, comprising a gravity controlled grinding and polishing unit, the same including a rotary shaft, a head carried thereby, revoluble abrading shoes journaled in the head, gears connecting the abrading shoes for imparting a planetary motion thereto relative to the shaft, a normally fixed suspension means for the shaft, and adjusting means in gear connection with the suspension means for predeterminately regulating the weight of the grinding and polishing unit, whereby said weight is exerted upon the surface of the work step-by-step from light load to full load during the continuous rotation of the aforesaid grinding and polishing unit.

1,375,130. CLOTHES-WRINGER. WALTER J. CONLON, Chicago, Ill. Filed Mar. 25, 1915. Serial No. 16,880. 15 Claims. (Cl. 68—32.)



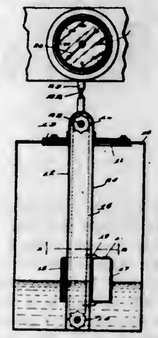
1. In combination, a clothes wringer having a pair of coöperating rollers, and a hopper shaped guard leading to said rollers, one wall of said hopper shaped guard being movable independently of the movement of the rollers to vary the outlet of said hopper at said rollers.

1,375,131. LIQUID-LEVEL GAGE. CLAUDE E. COX, Detroit, Mich. Filed Mar. 24, 1919. Serial No. 284,666. 11 Claims. (Cl. 73—82.)



1. In a gage, a variable-position member, a distant indicator member and a flexible shaft connecting said two members and comprising two opposite-pitch portions connected end to end to compensate temperature-effected angular movements of the shaft portions affecting the indicator.

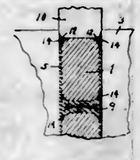
1,375,132. LIQUID-LEVEL GAGE. CLAUDE E. COX, Detroit, Mich. Filed Mar. 24, 1919. Serial No. 284,667. 1 Claim. (Cl. 73—82.)



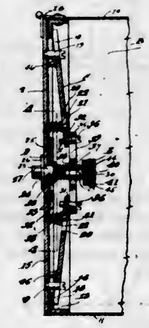
A liquid gage comprising a belt, a pair of wheels supporting said belt, an elongated housing inclosing said belt and wheels and supporting said wheels at opposite ends of the housing, said housing having cross dimensions closely approximating the space occupied by the belt, a buoyant member eccentrically sleeved over the housing and connected to the belt, said buoyant member being counter-balanced, relative to the opening through which the housing passes, to balance the said member relative to the belt, means by which the housing may be attached to a reservoir, and indicating driving means connected to one of the wheels.

1,375,133. ARMATURE INSULATION. JASPER F. CULLIN, Detroit, Mich., assignor to William J. Hartwig, Detroit, Mich. Filed Sept. 16, 1920. Serial No. 410,737. 4 Claims. (Cl. 171—206.)

2. In an armature for electric machines a core having longitudinal grooves, thin sheet insulation lining said grooves, armature windings in the form of superimposed bars in each of said grooves, and a twisted cord of absorbent paper threaded into the several grooves and compressed between the bars in each groove.

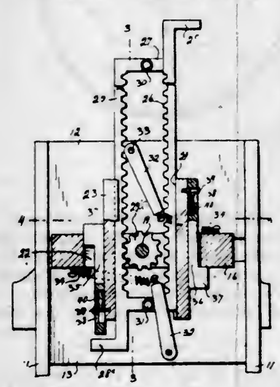


1,375,134. VAULT-LOCK. ALBERT L. DAVIS, Norwalk, Ohio. Filed Nov. 15, 1919. Serial No. 338,176. 9 Claims. (Cl. 292—5.)



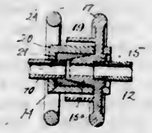
1. The combination with a body having one end thereof opened, and a closure head for said opened end, of locking mechanisms carried by the closure head and including a plurality of radially extending bolts slidably mounted on the head, an actuating element, means carried by the bolts for engaging said element, and means for moving said bolt engaging means out of engagement with said actuating means, when the bolts have been moved into locked position.

1,375,135. PUMP-ACTUATING MECHANISM. ROBERT A. DEAN, Tyler, Tex. Filed Apr. 23, 1919. Serial No. 292,095. 7 Claims. (Cl. 74—27.)



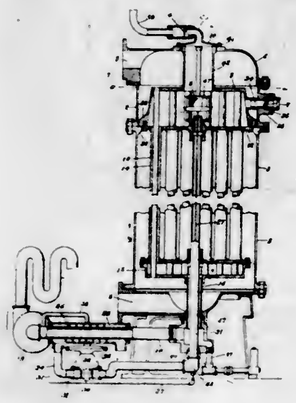
1. A mechanism of the character described comprising a rack having opposed rack teeth, a carrier having a slot through which the rack passes, said carrier being shiftable transversely of the rack, a rotatable pinion mounted on the carrier and engageable with one or the other of the sets of rack teeth, locking members mounted on each side of the rack and urged into position between the ends of the slots and the rack to thereby hold the carrier from return movement after it has been shifted in one direction, means acting upon a predetermined movement of the rack in one direction urging the carrier in one direction and shifting one of the locking members out of its locking position and shifting the other member into locking position, and means acting upon a predetermined movement of the rack in the other direction urging the carrier in a direction opposite to that in which it was first urged and shifting the last named member out of its locking position and shifting the other locking member into operative position.

1,375,136. PIPE OR HOSE COUPLING. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 25, 1920. Serial No. 361,163. 3 Claims. (Cl. 285—175.)



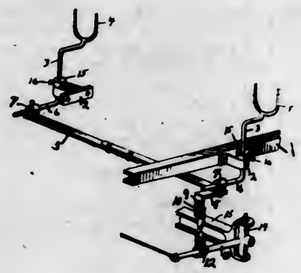
1. The combination of a pipe which carries in its ends a coupling member having in its end a conical recess, a coupling sleeve which loosely embraces said pipe and coupling member and has in its end bayonet slots whose circumferential portions extend spirally, with a second pipe carrying on its ends a coupling cone fitted into said conical recess and having outwardly projecting coupling lugs adapted to enter and slide in said bayonet slots.

1,375,137. HEATER. HENRY S. DODD, Toronto, Ontario, Canada, assignor of one-half to John O'Neill, Toronto, Ontario Canada. Filed May 14, 1918. Serial No. 234,563. 10 Claims. (Cl. 122—131.)



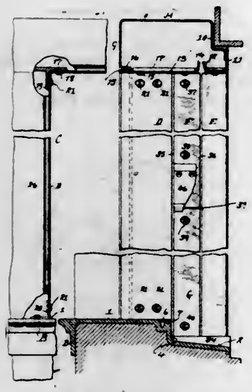
7. In a heater, the combination of a casing comprising a lower, an intermediate and an upper section, lugs at the upper end of the lower section; a combustion chamber provided with lugs adapted to rest on the lugs aforesaid; an inspection tube extending from the side of the combustion chamber and passing through the side of the intermediate section; and a stuffing box adapted to make a tight joint where the tube passes through said section.

1,375,138. DIRIGIBLE HEADLIGHT. WILLIAM B. DUEAST, Pine Lawn, Mo., assignor of one-half to Felix Wodicka, St. Louis, Mo. Filed Aug. 25, 1920. Serial No. 405,800. 2 Claims. (Cl. 240—62.)



1. In combination, a pair of headlight supporting cranks, an adjustable rod connecting the lower arms of said cranks, an angular bracket depending from said adjustable rod and provided with an elongated slot, a rod twisted so that one portion thereof will be at right angles to the other portion thereof, means attached to one end of the twisted bar so as to slidably engage the slot provided in the bracket, and a sleeve at its other end for engaging a steering arm of a motor vehicle.

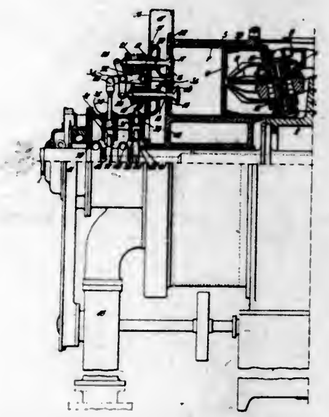
1,375,139. METAL WINDOW-FRAME. IRVING H. ELLIOTT, New York, N. Y., assignor to Harry E. Campbell, Mount Vernon, N. Y. Filed July 1, 1919. Serial No. 307,945. 5 Claims. (Cl. 189—76.)



1. A metal window-frame, comprising a hollow jamb having its inner wall formed in three sections with vertical slots between them, the middle section being formed of two separated plates disposed vertically one above the other and laterally adjustable each independently of the other.

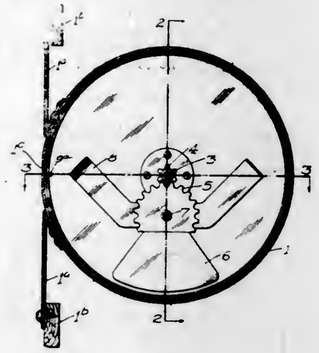
1,375,140. INTERNAL-COMBUSTION ENGINE. WILLIAM ROBERT FASEY, Snaresbrook, England. Filed Oct. 14, 1918. Serial No. 258,050. 2 Claims. (Cl. 123—58.)

1. An improved internal combustion engine having a plurality of cylinders arranged annularly, hollow pistons operating in the cylinders, adjustable rollers carried by the piston, a rotor having a shaft mounted centrally of the cylinders and having a cam rib with which the rollers coöperate, the rollers having axes at obtuse angles to the axis of the rotor and so disposed that the thrust of the



rollers upon the cam rib is substantially in line with the axes of the cylinders, inlet and exhaust valves in the cylinder ends and cams common to and centrally of all said valves, said cams being mounted upon the rotor shaft, substantially as specified.

1,375,141. GRADE-INDICATOR. CHARLES C. FORD, Point Loma, Calif. Filed July 7, 1919. Serial No. 309,042. 3 Claims. (Cl. 33—215.)

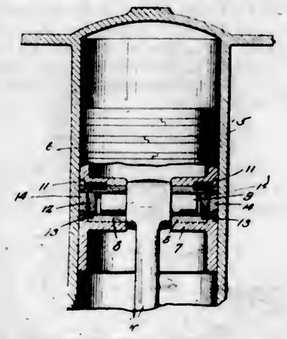


1. A grade indicator, including a casing, a circular indicator member provided with an adjustable band having adjacent scales whose graduations extend in opposite directions from a certain point on said band and revolubly mounted in said casing and gravity actuating means connected to said indicator for revolving the same.

1,375,142. REMOVABLE WRIST-PIN BEARING. ROBERT F. FORKNER, Princeton, W. Va., and ALEXANDER STRAIGHTIFF, Roanoke, Va. Filed July 23, 1920. Serial No. 398,451. 2 Claims. (Cl. 74—108.)

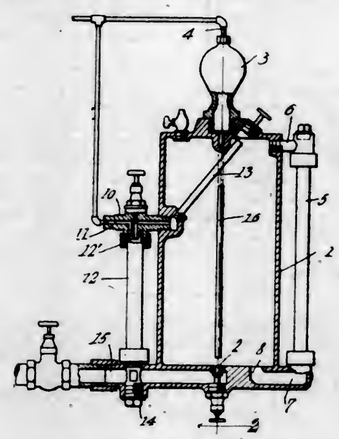
1. In combination with a piston and the connecting rod associated therewith, bearing supporting members forming a part of the piston, tubular bearing members

disposed within the bearing supporting members, a wrist pin positioned in the bearings, thrust bearings disposed



adjacent to the outer ends of the tubular bearings, and means for securing the bearings within the bearing supporting members.

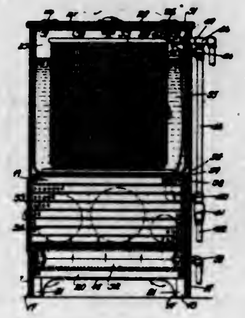
1,375,143. LUBRICATOR. CHAUNCEY O. FORTNEY, Bowling Green, Ohio. Filed Oct. 24, 1919. Serial No. 332,942. 1 Claim. (Cl. 184—50.)



A lubricator including a lubricant container, a condenser thereon, means for conducting water of condensation from the condenser to the bottom portion of the container, a valve casing opening into the upper portion of the container, an inclined tube within the container for conducting lubricant from the upper portion of the container to the casing, a clean-out plug removably mounted in the top of the container and in line with the tube, a sight glass engaged at its upper end by the valve casing, a nipple extending from the valve casing for directing lubricant therefrom and into the upper end of the sight glass, a valve for controlling the flow of lubricant through the nipple, means for directing steam into the condenser and into the valve casing and around the nipple and thence into the sight glass, a valved drain outlet in the bottom of the container, a pipe extending from the outlet, a hollow plug within the pipe and opening into the lower end of the sight glass, said plug having openings in its walls in communication with the interior of the pipe.

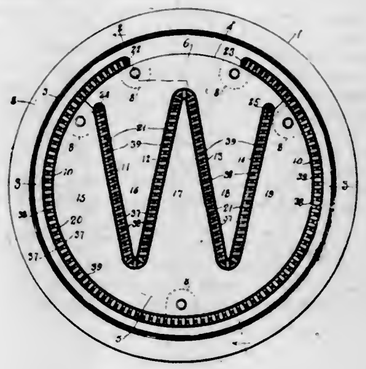
1,375,144. KITCHEN-CABINET. GROVER C. FRANTZ, Harrisburg, Pa. Filed May 31, 1919. Serial No. 301,047. 8 Claims. (Cl. 45—16.)

2. A cabinet of the character described including a jacket providing a casing; a tank depending into said jacket from the top thereof, said jacket having an opening in its front arranged below the level of the bottom of said tank; a drawer movable into and out of said opening below the bottom of said tank; and a heating agent



within said jacket directly below the bottom level of the drawer, said jacket being open at its bottom whereby air can enter the interior of said jacket and move upwardly to be heated by said heating agent; substantially as described.

1,375,145. ELECTRIC BURNER. CORAL V. FUNDERBURG, Yellow Springs, Ohio. Filed May 19, 1919. Serial No. 298,019. 4 Claims. (Cl. 219—34.)

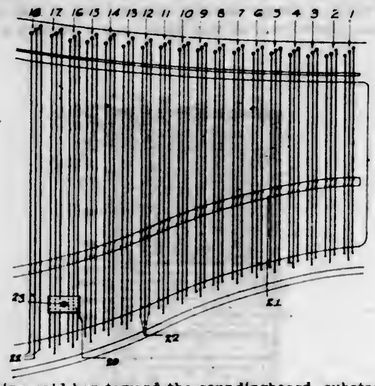


1. In an electric burner, a housing comprising a closed working surface and massive metal portions disposed relative thereto and adapted to conduct heat absorbed thereby to said working surface during prolonged intervals, grooves arranged relative to the housing on the side opposite said surface between the respective insert portions, heating coils extending through said grooves and insulated from said metal, and connections from the coils leading to a suitable source of current supply.

1,375,146. PRESSURE-BAR FOR PIANO-STRINGS. ALPHONS GOTTHOLD GARDNER, Los Angeles, Calif. Filed June 30, 1920. Serial No. 393,222. 1 Claim. (Cl. 84—215.)

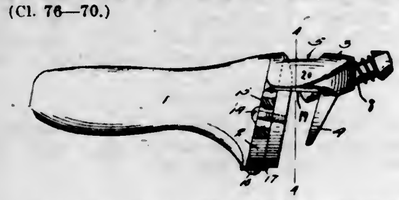
A piano having a short pressure bar extending across the strings for two treble notes only, in the region of

Nos. 16 and 17 from the top, said bar located between the soundingboard bridge and the hitch plate, and a screw



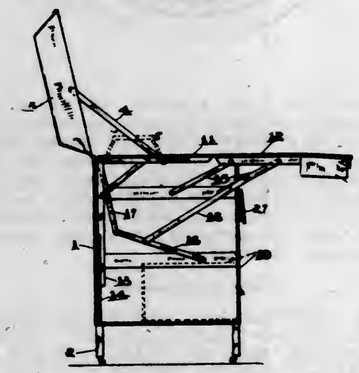
drawing said bar toward the soundingboard, substantially as described.

1,375,147. SAW-SET. EMERY GUAY, Spokane, Wash. Filed Nov. 29, 1919. Serial No. 341,479. 2 Claims. (Cl. 76—70.)



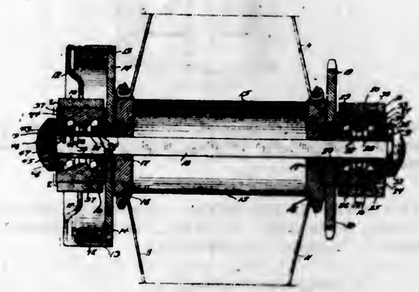
1. In a device of the class described, the combination of a handle having an extension head, arms connecting the handle with said head and having a sight opening positioned beneath the head, a setting pin slidably mounted in the head and having a rounded end, a spring normally retaining the pin in retracted position, and a transverse smaller pin mounted in the setting pin adapted to limit its retracted movement, a setting block having a rounded portion, means for longitudinally adjusting and setting said block, and means for holding said block in its longitudinally adjusted position in the handle, whereby the device is adapted for setting the teeth of different types of saws.

1,375,148. COOKING-CABINET. ALFRED E. GUIDAL, Toronto, Ontario, Canada. Filed June 10, 1920. Serial No. 387,966. 1 Claim. (Cl. 45—16.)



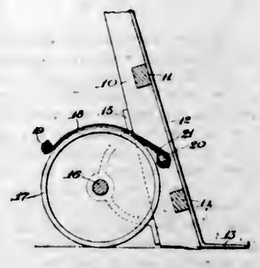
In a cooking cabinet, the combination of a casing; a stove board movable from a position at the top of the cabinet to a position below the top of the cabinet and vice versa; a table movable from a position at the top of the cabinet to a position in front thereof in substantially the same plane and vice versa; and supporting means and connections between the stove board and the table whereby their movements are reciprocal comprising vertical guides for the stove board, parallel pivoted links supporting the table, and link and lever connections whereby the table actuates the stove board.

1,375,149. WHEEL-MOUNTING FOR MOTORCYCLES. JOSEPH A. HAGGERTY, Philadelphia, Pa. Filed June 7, 1920. Serial No. 386,933. 6 Claims. (Cl. 208—11.)



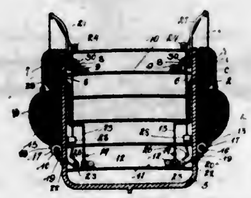
1. The combination in a motorcycle of two frame portions spaced apart; bearings in said frame portions; an actuating wheel secured to one of said bearings; a driving wheel positioned between said frame portions and including a hub having a hole angular in cross section; and an axle having an angular portion slidably fitting within said hole in the driving wheel and having a part locked to rotate with said one bearing but being freely slidable lengthwise therethrough, said axle having a nut screwed thereon which is removable to permit said axle to be withdrawn from the hub of the driving wheel; substantially as described.

1,375,150. TRUCK-BRAKE. FRED G. HALLADAY, Appleton, Wis., assignor to Safety Truck Brake Co., Appleton, Wis., a Corporation of Wisconsin. Filed Jan. 2, 1918. Serial No. 210,023. 5 Claims. (Cl. 188—22.)



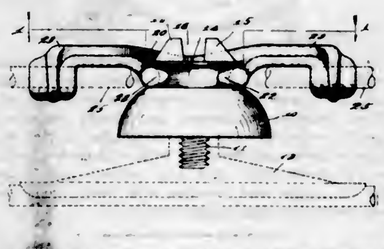
1. In a freight handling truck having side bars and rollers, angular shouldered projections on the side bars of the truck near the rollers, curved spring members with their ends bent around the angular section of said projections and extending over the rims of the rollers and normally spaced therefrom to form brake shoes, said spring members having their other ends bent to form loops, and a cross bar connecting the brake shoes and having its ends confined within the loops of the spring members and adapted to apply the brake shoes to the rims of the rollers by a movement toward the rollers.

1,375,151. WRECK-PREVENTING APPARATUS FOR SHIPS. ROBERT J. HAMILTON, Browning, Mont. Filed Mar. 3, 1919. Serial No. 280,243. 1 Claim. (Cl. 114—68.)



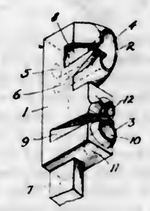
The combination with a ship having opposing sides, a roller located on each side of the ship, an inflatable member connected with each roller and arranged to be carried by the ship above the water line thereof, cables connected with said rollers, guides on said ship for said cables, means for operating said cables to lower said rollers and inflatable members below the water line, means for raising said inflatable members and rollers above the water line, and means for inflating said members, said rollers being adapted to permit of the inflatable members to be wound thereon when said members are deflated.

1,375,152. TROLLEY-WIRE HANGER. EDWARD HEYDON, Indianapolis, Ind. Filed Nov. 24, 1919. Serial No. 340,103. 8 Claims. (Cl. 191—40.)



1. A trolley-wire hanger, comprising a body having a circumferential groove, and a yoke having a laterally opening recess arranged to receive the body by interfitting with said groove, said yoke having at the sides of said recess projecting fingers which can be bent toward each other to lock the body and yoke together.

1,375,153. SELF-CLEANING TYPE. ELBERT R. HOBBS, Castleford, Idaho. Filed Feb. 24, 1920. Serial No. 360,733. 3 Claims. (Cl. 197—36.)

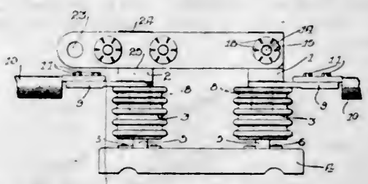


1. A type for typewriting machines and the like having a body carrying on its face a printing type and having formed in itself through passages extending from the inner edges of the type face to discharge points on a non-printing surface of the body, said body being beveled away from the character edges of the type and all passages or channels through said body being so constructed as to permit constant expansion and consequent discharge of any material entering the type face in use.

1,375,154. COMPOSITION FOR MASKING THE ACRID TASTE OF EPSOM SALT. GEORGE J. HUSSMAN, St. Louis, Mo. Filed Apr. 29, 1920. Serial No. 377,593. 1 Claim. (Cl. 167—7.)

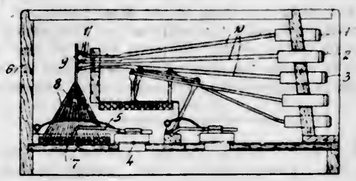
A masked and agreeable Epsom salt compound, comprising a major portion of Epsom salt and a minor portion comprising a mixture of saccharin, oil of anise and oil of peppermint, in substantially the proportions stated.

1,375,155. SWITCH. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 18, 1918. Serial No. 267,374. 9 Claims. (Cl. 200—48.)



1. In combination, a pair of rigid stationary contact members, a pair of separate flexible blade members pivoted on one of said contact members and lying outside of both said stationary contact members, said blade members having their outer ends offset to engage each other for spacing said blades apart a distance substantially equal to or slightly less than the thickness of the other of said contact members and being free to permit lateral play of the blades at their ends to make good contact with the latter contact member.

1,375,156. ACCORDION. KARL AXEL JAKOBSSON, Stockholm, Sweden, assignor to William Farre, Christiania, Norway. Filed Oct. 7, 1919. Serial No. 329,036. 1 Claim. (Cl. 84—376.)

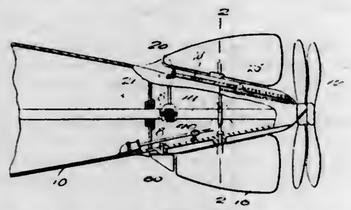


In an accordion, the combination with a plurality of air valves, of a series of parallel rock-shafts, rods connecting said rock-shafts to the valves, an arm fixed to each rock-shaft and having an extension, the extensions of all of said arms lying in the same plane, an upper series of keys provided with rods having angular extensions designed to simultaneously engage a plurality of the arm extensions, and other keys having rods provided with extensions of less length than the extensions of the first mentioned key-rods engaging a different number of the arm extensions than the extensions of the first mentioned key-rods.

1,375,157. TORPEDO. HANS P. JENSEN-BEARLUNDD, Lisbon, Portugal. Filed July 2, 1919. Serial No. 308,254. 5 Claims. (Cl. 114—23.)

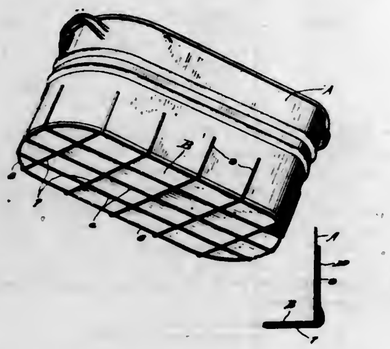
1. In combination, a torpedo including a body, propelling means therefor, a vertical rudder controlling the

direction of travel of the torpedo, a screw connected with and operable by the propelling means, an adjustable abutment carried by the screw and operable thereby, and a



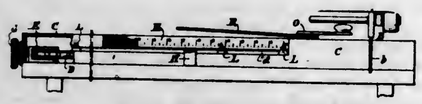
curved arm carried by the rudder and engageable by the abutment to automatically adjust the rudder during travel of the torpedo.

1,375,158. BOTTOM-PROTECTOR FOR WASHBOILERS AND CULINARY VESSELS. LEE R. KRAMER, Kewanee, Ill. Filed Sept. 5, 1919. Serial No. 321,805. 3 Claims. (Cl. 53—8.)



1. A protector for culinary utensils comprising a plurality of longitudinal wires adapted to engage the bottom of the utensil throughout substantially its entire length; a plurality of transverse wires permanently secured to said longitudinal wires and lying in the same horizontal plane and adapted to engage the said bottom throughout substantially its entire width; the ends of all of said wires being bent to engage the sides of the utensil and the whole constituting a reinforcement for said bottom and sides.

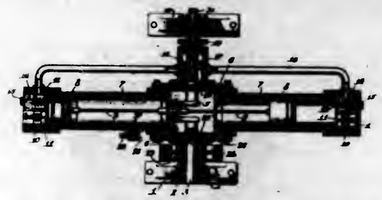
1,375,159. SAW-TABLE GAGE. ADOLF G. KROCKER, Waco, Tex. Filed Aug. 21, 1920. Serial No. 405,079. 6 Claims. (Cl. 143—168.)



1. Gage mechanism for saw-tables comprising an endless band, a stop carried thereby, a series of pointers carried by the band, a scale coöperating with the pointers and stop and means for operating the band.

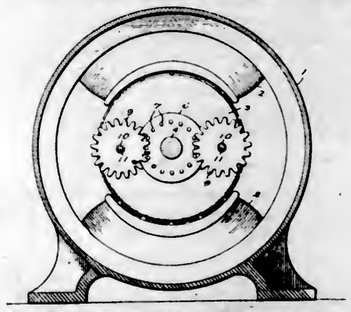
1,375,160. AIR-PUMP. PAUL KUEHN, Denver, Colo. Filed Dec. 15, 1919. Serial No. 344,922. 5 Claims. (Cl. 230—31.)

1. In a device of the character described, the combination of a non-rotatable crank shaft, cylinders extending radially from and rotatable about the crank shaft, pistons within the cylinders, flexible connections connecting the



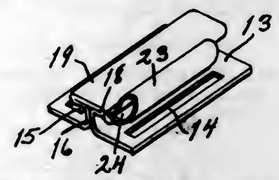
pistons and a crank of the crank shaft, and means for holding the pistons in spaced relation.

1,375,161. MOTOR AND DYNAMO CONSTRUCTION. CLYDE W. LANDERS, New York, N. Y. Filed Apr. 16, 1920. Serial No. 374,292. 16 Claims. (Cl. 171—321.)



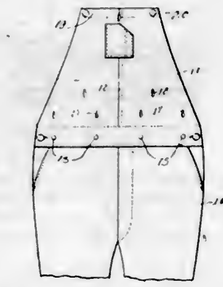
2. In a device of the character described, the combination with a casing, a stationary element and a revolving element, of a gear wheel arranged on each side of said revolving element, conductors electrically connected to said gear wheels, laterally projecting pins carried by said revolving element and meshing with said gear wheels, and means revolving with said gear wheels and connected thereto to oppose said meshing and insure good contact between said gear wheels and said pins.

1,375,162. HOSE-SUPPORTER. ERICK V. LINDQUIST, Des Moines, Iowa, assignor to Qupee Hose Supporter Company, Eau Claire, Wis., a Corporation of Wisconsin. Filed Sept. 23, 1920. Serial No. 412,225. 3 Claims. (Cl. 24—245.)



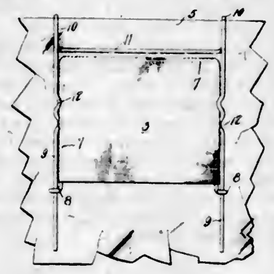
1. A hose supporter, comprising a suspending member formed with depending loops one in front of the other, a base plate formed with a slot through which the rear loop is passed, said base plate also being formed with a long transversely arranged stud outstanding therefrom, said stud being formed at its outer end with oppositely extending flanges the lowermost of which is of greater length than the uppermost, and a clasp formed with a transverse slot by which it is suspended from the forward loop and also formed with an enlarged opening adapted to engage and embrace said stud member, said opening being of less vertical width than the combined width of the flanges of said stud, said base plate also being formed with an outstanding member arranged parallel with said stud, said member extending adjacent to the margin of one of the flanges of said stud; and tending to prevent removal of said clasp from said stud.

1,375,163. OVERALLS-BIB. MERRITT M. LOGAN, Springfield, Mo. Filed Apr. 10, 1920. Serial No. 372,864. 1 Claim. (Cl. 2—140.)



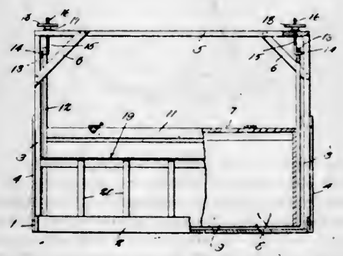
In a garment, a trousers section, a bib section having its lower end secured to the trousers section, said bib section having a plurality of button holes formed therein, buttons carried by the upper extremity of the bib, said bib section adapted to be folded downwardly, said buttons adapted to pass through predetermined openings of the bib sections, and means carried by the trousers and engaging within the openings of the bib for securing the bib in its folded position.

1,375,164. WINDSHIELD-SHADE. WATSON H. MALOTT, San Francisco, Calif. Filed Dec. 9, 1918. Serial No. 265,820. 2 Claims. (Cl. 296—97.)



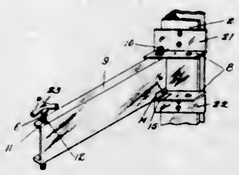
1. A shade for automobile windshields comprising a frame, means for suporting the frame on the windshield, a second frame slidable on said first frame and resiliently held therein and a fabric envelop adapted to be drawn over said second frame.

1,375,165. HOG-FEEDER. ROY J. MAXWELL, Butler, Ind. Filed Oct. 25, 1919. Serial No. 333,239. 1 Claim. (Cl. 119—53.)



In a device of the class described a frame including end standards and a cross beam connecting the standards; a trough; a hopper spaced above the trough, said hopper having uprights adjacent the standards and means for adjusting the space between the hopper and the trough, said means comprising a threaded shank extending through the cross beam, a threaded member engaging the shank and resting on the beam and a bearing projecting at right angles from the shank and extending through the upright on the hopper, the space between the end of the bearing and the standard being less than the thickness of the upright.

1,375,166. TABLE-SEAT. HAROLD MESTRE, San Francisco, Calif. Filed Aug. 7, 1919. Serial No. 315,851. 7 Claims. (Cl. 155—81.)



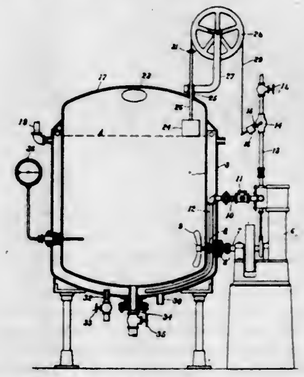
1. A table seat structure comprising a pair of bracket members with flanges adapted to be attached in spaced and horizontal position on a fixed supporting part, a carrying bar formed of channel iron having alined holes through its flanges at one end to receive a pin mounted in the said bracket flanges, and a standard passed through apertures in the flanges of the opposite end of the bar, said standard having a seat on its upper end.

1,375,167. MANICURE INSTRUMENT. THOMAS E. NEW, Cincinnati, Ohio, assignor to The Precision Equipment Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 3, 1920. Serial No. 355,964. 5 Claims. (Cl. 132—76.)



1. A manicure instrument comprising in combination a main body provided with a neck and head portion, and a pointed scraper having a portion embracing said neck and slidable thereon to dispose its pointed portion in intimate contact with said main body or extended therefrom.

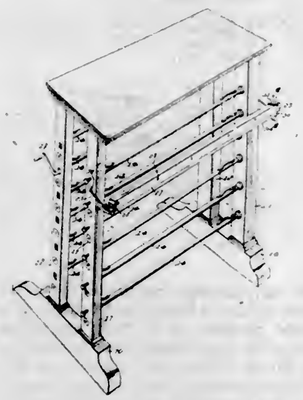
1,375,168. FLUID-AGITATING APPARATUS. NIELS D. NIELSEN, Elyria, Ohio. Filed Jan. 17, 1919. Serial No. 271,569. 4 Claims. (Cl. 259—1.)



1. In combination, a tank adapted to contain a liquid, means for stirring the liquid and means controlling the

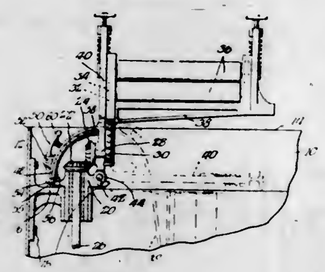
first mentioned means to cause the liquid moved by said stirring means to be substantially proportional to the amount of liquid in the tank.

1,375,169. COMBINED DISPLAYING AND DISPENSING DEVICE. WESLEY H. PARKS, Bixby, Okla. Filed June 24, 1920. Serial No. 391,340. 1 Claim. (Cl. 211—18.)



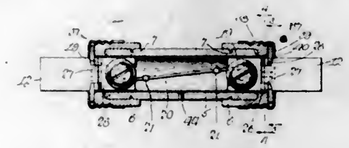
In a combined displaying and dispensing device, a frame having end posts, spindles journaled in the posts, apertured plates on the outer surfaces of the posts alternating with relation to the spindles, a cutter and resilient hangers at the ends of said cutter having extensions projecting into the apertures of the plates and removably applied thereto whereby the cutter may be suspended in operative relation to any one of the spindles.

1,375,170. WASHING-MACHINE WITH FOLDING WRINGER. HALSEY D. PAYNE, ALVIN W. DE CLERQUE, and SIDNEY T. SJOBERG, Chicago, Ill., assignors to Cadillac Washing Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 7, 1920. Serial No. 408,705. 4 Claims. (Cl. 68—32.)



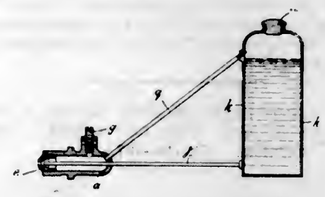
1. In mechanism of the class described, a cabinet, a wringer mechanism mounted in a frame, means pivoting the wringer frame at a point inside the cabinet and below its upper edge in such manner that the wringer may be swung in the plane of the body of the wringer from an elevated position where it extends above the top of the cabinet to a lower position where it is below the top of the cabinet, means for selectively locking the wringer in each of said positions, and means in the cabinet adapted to deliver power to the wringer when the wringer is in its elevated position.

1,375,171. RENEWABLE SAFETY-FUSE. AARON PETERSON, Chicago, Ill. Filed June 20, 1919. Serial No. 305,467. 4 Claims. (Cl. 200—132.)



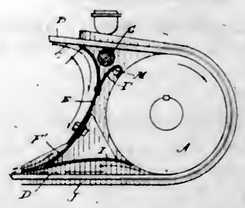
1. The combination with a flat terminal blade having opposed recesses merging with its side edges and forming a resultant web, and a collar fixedly secured to said web and having a slit extending from the web to the periphery thereof.

1,375,172. GAS-ENGINE-STARTING DEVICE. JOHN WILLIAM PHILLIPS, Hendon, England, assignor to Bishopsgate General Trading Company Limited, London, England. Filed Feb. 25, 1920. Serial No. 361,194. 3 Claims. (Cl. 123—180.)



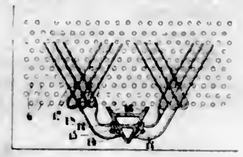
1. A gas engine starting device comprising a fuel tank, said tank having an air opening therein, a tubular body the interior of which is of two diameters thereby forming a chamber and a passageway terminating at opposite ends of said body, a spray nozzle in the open end of said chamber, a tube in said passageway terminating at one end in said spray nozzle, a fuel pipe connected to said fuel tank and spaced from but in communication with the other end of said tube, means for connecting said tubular body to the induction pipe of the engine and means for introducing air into said chamber.

1,375,173. AIR-SKIMMER FOR BELT-PULLEYS. HAROLD M. PLAISTED, St. Louis, Mo., assignor of forty-nine one-hundredths to Milton F. Williams, St. Louis, Mo. Filed Aug. 25, 1919. Serial No. 319,525. 6 Claims. (Cl. 74—21.)



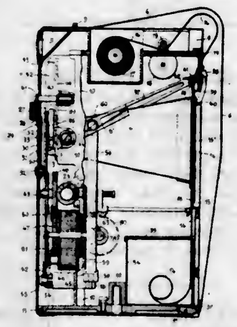
1. The combination with a belt and pulley, of an air-skimming plate located adjacent to said pulley and having one air-skimming edge in proximity to the inside of the approaching belt and provided with another air-skimming edge in proximity to the pulley, and adapted to skim the air from the inside of the belt near the pulley and also from the surface of the pulley adjacent to the approaching belt.

1,375,174. WATER-TUBE BOILER AND SUPERHEATER THEREFOR. ROLAND SYDNEY PORTHAM and JAMES DORNAN, London, England. Filed Sept. 17, 1918. Serial No. 254,445. 1 Claim. (Cl. 122—476.)



A water tube boiler comprising upper drum and lower drums, water tubes connecting said drums, and a superheater comprising divided headers of triangular shape mounted with a base adjacent the water tubes, and elements of multiple U-formation connected to the slant sides of said headers and projecting diagonally into but not beyond the banks of water tubes, each element being disposed between adjacent diagonal rows of boiler tubes whereby the superheater elements are subjected to the same degree of heat as the adjacent boiler tubes and at the same time, insertion or withdrawal of the superheater elements being effected in a direction parallel to the slant sides of the headers, as set forth.

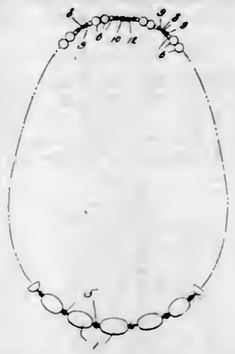
1,375,175. PHOTOGRAPHIC CAMERA FOR TAKING UP PART NEGATIVES FOR NATURALLY COLORED PICTURES. SERGE DE PROCOUDINE-GORSKY, Granstad, Konnerud, near Drammen, Norway. Filed Sept. 20, 1919. Serial No. 325,264. 9 Claims. (Cl. 95—2.)



1. A camera for color photography comprising an objective; a rotary disk arranged in front thereof and provided with a set of light filters; operating mechanism for said disk; and a film-feeding device embodying an oscillating frame operatively connected with the disk and provided with means engageable in the perforations in the film.

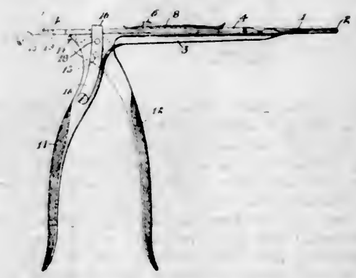
1,375,176. NECKLACE. EDWIN L. RICHARDS, Los Angeles, Calif. Filed Nov. 5, 1920. Serial No. 421,975. 2 Claims. (Cl. 63—21.)

1. A necklace comprising a plurality of wire links having terminal eyes or loops and beads upon the links and held against movement longitudinally thereof by the ends of the wires forming the links, the eye or loop at the free end of one of the terminal links being bent to form



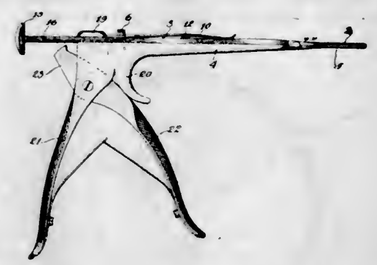
a hook, the eye or loop at the free end of the other terminal link being proportioned to receive said hook.

1,375,177. TONSIL-REMOVER. GUSTAV F. RICHTER, Brooklyn, N. Y. Filed Apr. 15, 1919. Serial No. 290,144. 8 Claims. (Cl. 128—320.)



1. A tonsil remover comprising a bed and blade guided therein adapted to close on the tonsil and a two-stage closing means therefor comprising a thumb-or-finger-operated member for initially closing the bed and blade on the tonsil to compress the same and levers to be gripped within the hand for completing the closing movement.

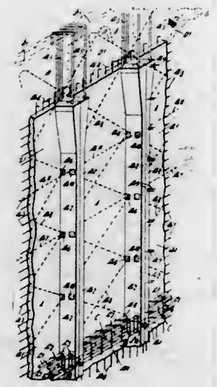
1,375,178. TONSIL-REMOVER. GUSTAV F. RICHTER, Brooklyn, N. Y. Filed June 18, 1919. Serial No. 305,030. 7 Claims. (Cl. 128—320.)



1. A tonsil remover comprising frame and blade severing members relatively slidable toward their severing position, initial closing means therefor, and power multiplying means for completing the closing movement, said power multiplying means being held inoperative by the severing members during the initial closing movement

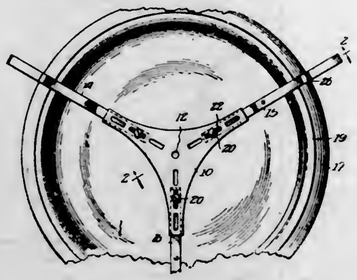
and one of said members being provided with a strong part overhanging the other member to prevent the displacement of the blade from the frame under powerful action of the power multiplying means during the initial closing stage.

1,375,179. REINFORCED CONCRETE CONSTRUCTION OF SHIPS, FLOATING DOCKS, PONTOONS, AND THE LIKE. HARRY C. RITCHIE, Liverpool, and MORITZ KAHN, London, England. Filed Aug. 7, 1918. Serial No. 248,780. 11 Claims. (Cl. 114—65.)



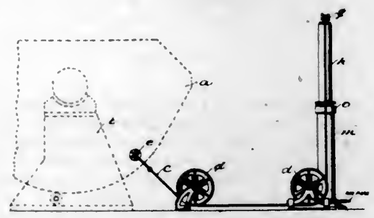
1. In a reinforced concrete ship, in combination; a series of pre-cast reinforced units each consisting of a plane part and two end flanged parts; reinforcing bars passing through the said flanged parts and projecting through the ends thereof and adapted with the flanges to form sections of one of the ship's frame members; reinforcing bars in the plane portions projecting beyond the edges thereof; and frame members of the ship consisting of reinforcing bars and concrete, cast *in situ*, at right angles to the frame, of which the flanges of the units form parts, the said pre-cast units being connected together end to end by joints made between the faces of the flanges and being connected together at their edges by the frame members cast *in situ*, the reinforcing bars of the flanges being connected together in the members cast *in situ* and forming continuous frame members running in the one direction connected at intervals to the cast *in situ* frame members running in a direction at right angles; substantially as described.

1,375,180. INDIRECT-LIGHT-BOWL HOLDER. CLARENCE H. ROCKEY, Chicago, Ill. Filed Sept. 20, 1919. Serial No. 325,114. 1 Claim. (Cl. 240—115.)



In mechanism of the class described, a horizontal central-member of flat metal having its outer edge bent to a vertical plane, an adjustable arm slidable therefrom, through an opening made in said vertically turned edge, a pin and slot connection between said members located between the center of the device and said vertically turned edge, for detachably fastening the arm in various positions with reference to the central member, and means on the outer extremity of the arm for attachment to the end of a lighting bowl.

1,375,181. OSCILLATING PUDDLING-FURNACE. JAMES PETER ROE, Pottstown, Pa. Filed Mar. 29, 1919. Serial No. 285,991. 3 Claims. (Cl. 263—33.)



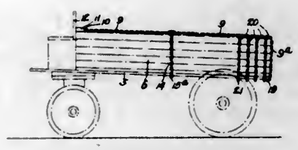
1. In a device of the character described, air compressing means, an oscillating puddling furnace and separately arranged from said furnace, and means connected with the latter and with the air compressing means to control the latter and vice versa, for the purposes set forth.

1,375,182. COLLAR. ANTHONY G. SALERNO, Chicago, Ill. Filed Sept. 2, 1920. Serial No. 407,763. 3 Claims. (Cl. 2—91.)



1. A collar comprising separable similarly shaped outer and lining members each having neck-band and flap portions, said outer member being formed of pliable fabric and having outer and inner plies connected at the meeting margin of the flap portions and of the ends of the neck-band portions and there being an opening between said plies intermediate the ends of the members, and said lining member being relatively stiff and foldable together with said outer member along a line between the neck-band and flap portions of the members.

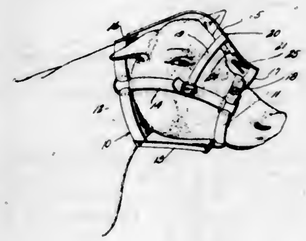
1,375,183. LOAD-BINDER FOR VEHICLES. MARY E. SAUNDERS, Philadelphia, Pa. Filed Sept. 14, 1920. Serial No. 410,149. 2 Claims. (Cl. 280—179.)



2. A load binder including members adapted to extend longitudinally over a load on a vehicle and having a housing at its rear end adapted to embrace the rear portion of a load, said housing including transversely extending members and longitudinally extending members, said transverse and latter mentioned longitudinally extending

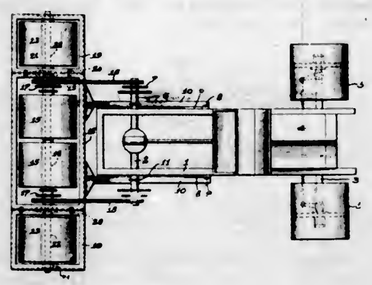
members being provided with means for connection with the bottom of the vehicle, said first mentioned longitudinally extending members including a transverse bar; and laterally extending flexible means connected to the opposite end portions of said bar and adapted to embrace the side portions of a load upon the vehicle, said laterally extending means having means for connection with the bottom of said vehicle; substantially as described.

1,375,184. COW-HALTER. LAWRENCE A. SCHNEIDER and AUGUST R. MEYER, Springfield, Minn. Filed Sept. 17, 1920. Serial No. 411,008. 1 Claim. (Cl. 119—142.)



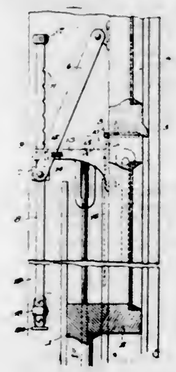
In a device of the character described, the combination with a cow halter including front and rear loop straps and longitudinal connecting straps, of a metallic body member, one end of said body member being connected to the top of said rear loop strap, the other end of said member being connected to the top of said front loop strap, means connected with said connecting strap and supporting said metallic member intermediate its ends, a transverse bar on said metallic member, depending studs on said bar, adapted to engage the face of the animal, and a cushion member carried on said metallic member to absorb the shock between said metallic member and the face of the animal in connection with which the halter is used substantially as described.

1,375,185. ROLLER-TRACTOR. ALBERT J. SEITER, Prospect, Ohio. Filed July 2, 1920. Serial No. 393,559. 2 Claims. (Cl. 180—20.)



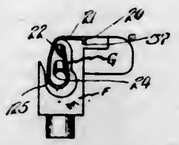
1. In a roller-tractor combination, a tractor having a rear axle assembly devoid of wheels, a roller attachment pivotally connected to said tractor to support the rear end thereof and having a roller shaft receiving power from the rear axle assembly, and side roller units abutting the sides of the roller attachment and connected thereto, said side roller units having roller shafts coupled to the roller shaft of the roller attachment.

1,375,186. COMBINED WINDOW AND TRANSOM. GEORGE SINCAK, Bridgeport, Conn. Filed June 10, 1920. Serial No. 387,898. 5 Claims. (Cl. 20—40.)



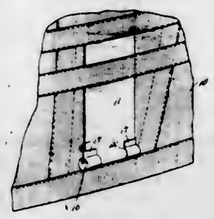
4. A window construction including a slidable upper sash, a transom hinged to the top rail thereof, and means carried by the sash for opening the transom.

1,375,187. SHUTTLE. ISAAC SNOW, Lawrence, Mass. Filed Apr. 17, 1919. Serial No. 290,821. 16 Claims. (Cl. 139—46.)



9. The combination in a shuttle having an eye, a bobbin chamber and a threading chamber in continuation thereof which connects with the eye, of a thread directing guide plate so fixed to the top side of the shuttle as to extend into the threading chamber, such guide plate having a thread trapping rim which extends from and under its forward part and a thread retaining guide hook which extends from and under its back part.

1,375,188. GARTER-SUPPORT. JOHN STERN, New York, N. Y. Filed Apr. 2, 1919. Serial No. 286,910. 6 Claims. (Cl. 2—98.)

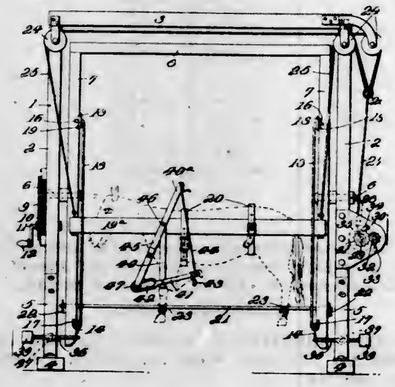


1. In a device of the class described, the combination of a flexible tab, a rectangular one-piece metal plate having a length greater than the width of the tab and with the two end portions lapped back upon themselves with the edges of the tab held therebetween and said plate doubled back upon itself along a medial longitudinal line to form a tube adapted to receive a pin.

4. A one-piece-sheet metal pin tube constituting part of a garter support and comprising an open end tubular part

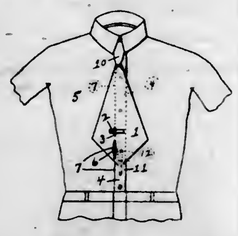
adapted to receive a pin element of the garter, said tubular part having extensions at opposite ends thereof to form a double thickness of material at the ends of the tube and adapted to receive a fabric tab between the double thickness and lateral extensions projecting from the side of said tubular part.

1,375,189. SAFETY STOCK DEVICE. JOSEPH THOMAS TUCKER, Match, Tenn. Filed Apr. 25, 1919. Serial No. 292,592. 2 Claims. (Cl. 119—98.)



1. An apparatus of the kind described, including a frame having a plurality of side bars, a plurality of cross-arms carried by each of said bars and extending transversely of said frame, each of said cross-arms being provided with a series of spaced apertures, vertical guide bars having bent ends passing through said apertures and detachably secured to said cross-arms, a plurality of beams adapted to be secured to the sides of an animal and vertically guided by said rods, and means for raising said beams.

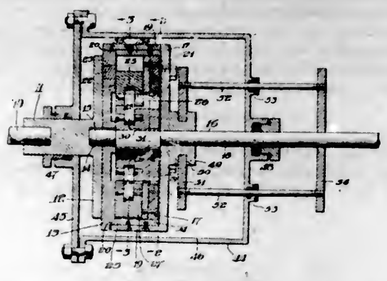
1,375,190. NECKTIE. CHARLES W. WALLER, Chicago, Ill. Filed Feb. 21, 1919. Serial No. 278,330. 3 Claims. (Cl. 2—11.)



3. A four-in-hand fabric necktie comprising an outer flap provided with an aperture which penetrates the face of said outer flap, said aperture adapted to receive the jaw of a tie clasp, and the extreme lower portion of said outer flap provided with a finger.

1,375,191. CLUTCH. TIMOTHY WALSH, Philadelphia, Pa. Filed June 23, 1919. Serial No. 306,001. 5 Claims. (Cl. 192—60.)

1. A clutch of the character described including a body portion having chambers therein extending in the direction of their lengths toward a peripheral surface of said body portion; plungers operative within said chambers, said peripheral surface of the body portion having finished recesses therein respectively intercepting said cham-



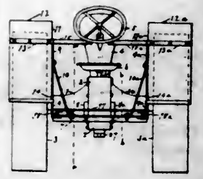
bers; and a flanged collar having finished portions adapted to slidably enter and closely fit said recesses to close the outer ends of said chambers; substantially as described.

1,375,192. DYNAMO. ERNEST ANSLEY WATSON, Coventry, England, assignor to The C. L. I. Manufacturing Company Limited, Birmingham, England. Filed Mar. 31, 1920. Serial No. 370,178. 4 Claims. (Cl. 290—41.)



2. In current generating apparatus for use on motor vehicles, the combination comprising a rotary shuttle type current generating armature, a permanent magnet for providing the armature field, a high tension ignition coil consisting of primary and secondary windings, a storage battery receiving current from the armature, and means for periodically short circuiting the armature and during the short circuit interval permitting current to flow from the battery to the ignition coil, substantially as described.

1,375,193. TRACTOR-FENDER. GUSTAVE WENZELMANN, Galesburg, Ill. Filed May 10, 1919. Serial No. 296,218. 6 Claims. (Cl. 280—157.)



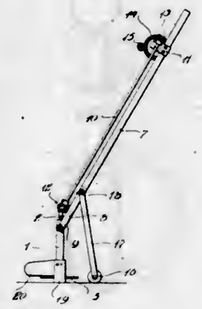
2. A device of the character described comprising a main cross bar, rigidly attached behind and somewhat below the housing of the rear axle of a tractor; braced uprights erected at the ends of said bar; a sheet metal fender attached to, and stiffened and supported by, each of said uprights, said fenders guarding the upper portion of the main wheels of the tractor; and an adjustable cantaliver floor, supported by coaction of said cross bar and said axle housing, and adapted to serve as a mounting step for the operator as well as a guard for the lower part of the main wheels and the space between them back of said main cross bar.

1,375,194. ELECTRIC HEATER. ALFRED G. WERNER, Omaha, Nebr. Filed Dec. 30, 1919. Serial No. 348,322. 2 Claims. (Cl. 219—34.)



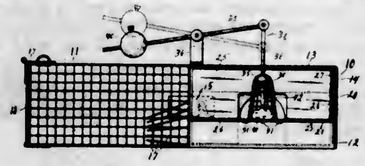
1. An electric heater comprising a base, said base having a downwardly extending flange for supporting the base spaced from a table, upwardly and inwardly extending wires having their lower ends secured to the flange, said wires having their upper ends merging to an apex and embedded in an outwardly extending threaded plug, and a heating unit carried by the base.

1,375,195. GRASS-TRIMMER. EDWARD WIKSTROM, Lowell, Mass. Filed Sept. 24, 1919. Serial No. 325,999. 2 Claims. (Cl. 56—239.)



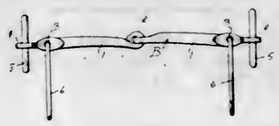
1. A device of the class described comprising a frame of stirrup-shape, the lower cross piece of the frame having a portion of one edge curved to provide a cutting edge, a vertically arranged shaft journaled in said frame and having limited longitudinal movement, a spring on the shaft for pressing the same downward, cutters on the lower end of said shaft, a handle, means for adjustably connecting the handle with the upper part of the frame at one side thereof, a shaft carried by the handle, means for rotating the same and gears connecting the shaft on the handle with the cutter shaft.

1,375,196. TRAP. WALTER W. WILHOIT, Louisville, Ky. Filed Jan. 26, 1920, Serial No. 354,223. Renewed Mar. 5, 1921. Serial No. 449,865. 2 Claims. (Cl. 43—68.)



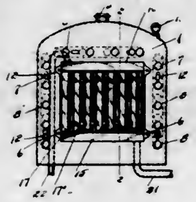
1. In a trap, an outer box, an inner box, a frame detachably engaged with said inner box, a rod connected with said frame and extending upward through an opening in the top of the outer box, an arm fulcrumed on the top of the outer box, said rod pivotally connected to one end of said arm, a weight on the other end of the arm adapted ta uphold the inner box, a wall of each box having an opening, said openings coinciding when the inner box is raised.

1,375,197. BRIDLE-BIT. JEFFERSON G. WRIGHT, Connell, Wash., assignor of one-third to William F. Steinmeyer, Eltopia, Wash. Filed May 31, 1919. Serial No. 300,849. 1 Claim. (Cl. 54—7.)



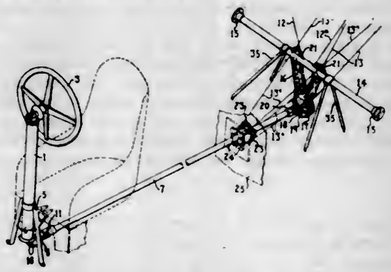
A bridle bit for connecting horses abreast comprising a snaffle bar composed of a pair of sections having their inner ends pivotally connected, each of said sections being provided in the free end thereof with a pair of perpendicularly related and spaced openings, one opening of each of said pairs being disposed at the end of its respective section, rings pivotally mounted within said openings and shiftable circumferentially therein, the innermost ring of each section being of a diameter materially in excess of that of the outer ring and being adapted for the reception of the cheek strap of a bridle, the rings mounted in the openings at the ends of said sections being adapted for the reception of reins for connecting the heads of the horses together.

1,375,198. AUTOMOBILE RADIATOR-COVER. MICHAEL ZIEGLER, Bay City, Mich. Continuation of application Serial No. 282,815, filed Mar. 15, 1919. This application filed Dec. 12, 1919. Serial No. 344,453. 8 Claims. (Cl. 257—132.)



1. A temperature regulating attachment for automobile radiators including a cover for attachment to the front of the radiator and forming a compartment thereat and having an opening in its front wall, shutters pivotally mounted on the hood for controlling the passage of air through the opening, said shutters having passages therethrough, and means for conducting a heating medium through said shutters.

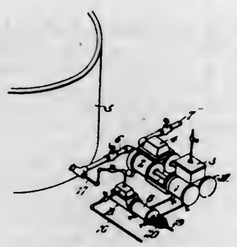
1,375,199. AEROPLANE CONTROL. PAUL G. ZIMMERMANN, Keyport, N. J., assignor to Aeromarine Plane & Motor Company, New York, N. Y., a Corporation of New York. Filed May 14, 1920. Serial No. 381,276. 10 Claims. (Cl. 244—29.)



7. In a flying-machine, the combination of a fore-and-aft shaft capable of both rotational and translational

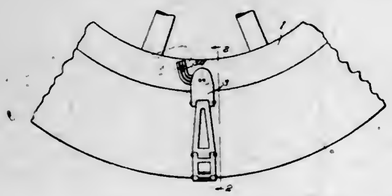
movements extending rearward from the operator's place, operating means at the front of the shaft, and two control connections taken from the rear of the shaft operated by the rotational and translational movements thereof, respectively.

1,375,200. PUMPING APPARATUS. WILLIAM S. BARNICKEL, St. Louis, Mo. Filed Aug. 5, 1918. Serial No. 248,423. 4 Claims. (Cl. 103—79.)



1. A pumping apparatus, comprising a reciprocating proportional pump provided with means for enabling the volume or quantity of the stream pumped by same to be increased or diminished, a main pump of the reciprocating type, and conduits separate and distinct from the supply and exhaust pipes of said main pump that lead from the opposite ends of the cylinder of said proportional pump to the corresponding ends of the cylinder of the main pump.

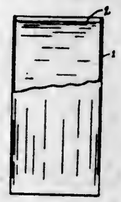
1,375,201. ANTISKID DEVICE. JOSEPH R. BAUDE, Chicago, Ill. Filed Mar. 1, 1920. Serial No. 362,496. 2 Claims. (Cl. 152—14.)



1. An anti-skid device for automobiles comprising a plurality of separable links, each link being secured at an end to the adjacent end of the next successive link, and means for detachably securing the remote ends of the end links to opposite sides of a felly of an automobile wheel, said means comprising a guiding and retaining member fastened to a side of the felly and closed at one end, a guide member secured to an end link and adapted to be received by said guiding and retaining member, a plate secured to the opposite side of said felly, said plate having a pair of upright extensions spaced apart to receive the tapered end of an end link, and a pin adapted to be inserted through registering openings through said upright extensions and the end of said end link.

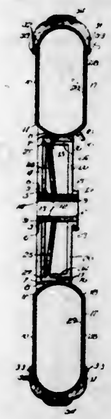
1,375,202. DRY CELL. RAYMOND C. BENNER and HARRY F. FRENCH, Fremont, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Aug. 14, 1919. Serial No. 317,580. 6 Claims. (Cl. 204—29.)

6. In dry cells, a zinc container electrode having a uniform coating of flour paste on the inside and bottom thereof extending only to within a short distance of the open end of the can and having an uncoated upper edge, said



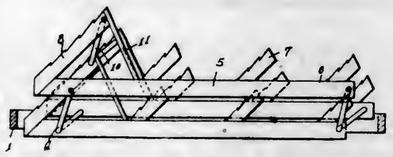
paste being cooked onto the surface of the zinc, and a seal in the upper end of the can adjoining the uncoated edge.

1,375,203. VEHICLE-WHEEL. MAX BENZ, South Chicago, Ill. Filed June 7, 1920. Serial No. 387,148. 3 Claims. (Cl. 152—29.)



2. A vehicle wheel comprising a hub, a disk rigidly mounted on said hub adjacent one end thereof, a laterally extending annular felly member formed integrally with said disk, a second disk feathered on said hub and slidable longitudinally thereabong, said second named disk being formed with a laterally extending annular felly member, a third disk removably secured to the hub, said third named disk having an integral annular extension arranged to extend toward said second named disk to limit the slidable movement of the latter along the hub, means mounted on said hub and engaging with said second named felly member for yieldingly permitting a limited movement of said second named disk away from said first named disk, a rim flange formed integrally with each of said felly members, a pneumatic tube having its inner periphery mounted upon said felly members and having its sides disposed between said rim flanges, a solid tire concentrically superposed upon said pneumatic tube, and means preventing lateral displacement of said solid tire.

1,375,204. STRAW-FEEDER. ARNOLD BOHNENBLUST, Riley, Kans. Filed Apr. 26, 1920. Serial No. 376,601. 2 Claims. (Cl. 193—60.)



1. In a feeder of the class described, a support; first shafts journaled in the support and having cranks; feeding members extended between the first shafts and mounted on the cranks; and a second shaft independent of the support and having cranks mounted in the feeding members, the side portions of the cranks of the second shaft constituting means for spacing the feeding members.

1,375,205. COMBINATION-FAUCET. TANAS BUDZINSKY, New York, N. Y. Filed Mar. 15, 1920. Serial No. 365,715. 4 Claims. (Cl. 251—88.)



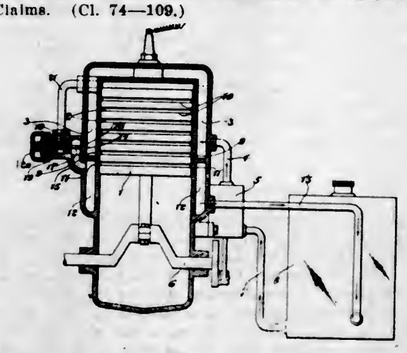
1. A combination faucet comprising an upper casing having inlet channels therein, a disk rotatably mounted on the under side of said casing, the mouths of said channels lying above said disk and at unequal distances from the center thereof, means for rotating said disk, a stationary disk mounted underneath said rotatable disk and having holes therein directly under the said mouths of said channels, and a plurality of spaced apart holes in said rotatable disk.

1,375,206. MANUFACTURE OF REINFORCED OR ORDINARY CONCRETE PIPES BY CENTRIFUGAL FORCE. PAUL LOUIS MAURICE CARON, Paris, France. Filed June 21, 1920. Serial No. 390,604. 3 Claims. (Cl. 25—30.)



1. A mold for concrete pipes and the like made by a centrifugal machine, adapted to be rotated for the purpose of applying the liquid concrete against its wall by centrifugal force, said mold having a separate flexible lining or jacket fitting its interior to render the same tight and constructed of a non-metallic material which is substantially non-adherent to concrete and which is sufficiently pliant to become unwound and detached progressively from the concrete.

1,375,207. ART OF PACKING PISTONS. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey Rotary Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 26, 1919. Serial No. 292,933. 8 Claims. (Cl. 74—109.)

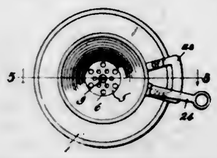


1. The method of packing a piston having circumferential grooves therein, which consists in forcing packing liquid into said grooves from an external source of supply, and varying the pressure of the liquid during reciprocation of the piston.

1,375,208. PROCESS OF REDUCING THE VISCOSITY OF VISCOUS SOLUTIONS OF NITROCELLULOSE AND OTHER ESTERS. OLOF CARLSSON and EDVIN THALL, Stockholm, Sweden, assignors to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 4, 1919. Serial No. 342,519. 4 Claims. (Cl. 134—79.)

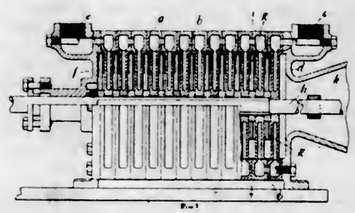
1. Process of reducing permanently the viscosity of solutions of cellulose esters, consisting in heating the solutions to a temperature between 60° C. and the temperature at which the compound in question is decomposed.

1,375,209. TELEPHONE-MOUTHPIECE. JOHN CHEFER, Chester, Pa. Filed Aug. 31, 1920. Serial No. 407,076. 2 Claims. (Cl. 179—188.)



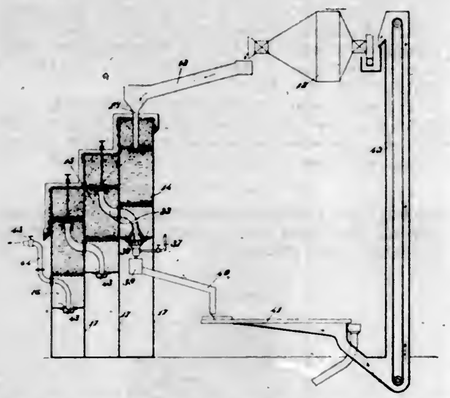
1. The combination with a mouthpiece section, an apertured disk in engagement therewith and held against rotation thereby, and an inner ring threaded upon said section and held against rotation by the disk, of a second apertured disk pivotally connected to the first named disk, a radial lug thereon having a limited sliding movement within the inner ring, an intermediate ring having an aperture for the reception of said lug and having an annular series of openings, said intermediate ring being revoluble upon the inner ring, an outer ring adjustable angularly upon the intermediate ring, means carried thereby for engagement with any one of the annular series of openings for holding the outer and intermediate rings against relative movement, an operating arm extending from the outer ring, and an inner mouthpiece section projecting into and secured to the inner ring, said disk being confined between the sections of the mouthpiece.

1,375,210. COOLER. WILLIAM CLAYTON, Liverpool, and GERALD NODDER, Wallasey, England. Filed Mar. 26, 1920. Serial No. 369,061. 1 Claim. (Cl. 257—85.)



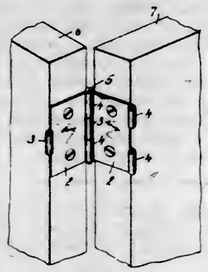
In coolers for use in the manufacture of edible fats, the combination comprising a plurality of flat hollow members, a pair of end covers, passages in the said members communicating alternately on opposite sides of the longitudinal axis of the members, inlet and outlet passages in the end covers communicating with the passages in the said members, a longitudinal shaft, and scrapers on the shaft rotatable in compartments formed by the said members, and passages in the said members communicating with the said compartments alternately on opposite sides of the longitudinal axis and with inlet and outlet apertures, substantially as described.

1,375,211. APPARATUS FOR SEPARATING OR CONCENTRATING ORES. DAVID COLE, Morenci, Ariz., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Aug. 3, 1915. Serial No. 43,442. 18 Claims. (Cl. 83—85.)



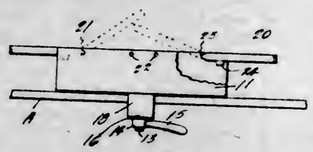
10. The combination with a grinding mill, of a frothing classifier into which substantially all of the material discharged from said mill is received, said frothing classifier having provision for removing, during the frothing operation therein, oversize material delivered thereto, and means whereby said oversize material may be returned to said mill for regrinding.

1,375,212. HINGE. LEONARD S. CRONE, New York, N. Y. Filed Dec. 4, 1920. Serial No. 428,204. 4 Claims. (Cl. 16—106.)



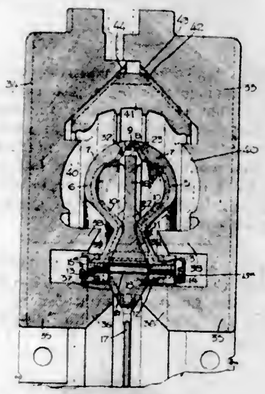
1. A hinge designed to be swung about either of two axes, comprising two leaves, knuckles at opposite edges of said leaves, the knuckles on one leaf designed to cooperate with corresponding knuckles on the other leaf, and a removable pintle designed to cooperate with either set of knuckles to form an axis about which the hinge may be swung, the removal of the pintle necessitating no change in the relative position of the leaves.

1,375,213. ICE-CARRIER. JOHN J. CRONIN, Dallas, Tex. Filed July 22, 1920. Serial No. 398,197. 3 Claims. (Cl. 224—29.)



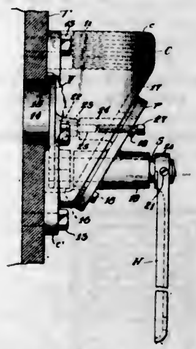
1. In a carrier to be arranged upon the running board of an automobile or the like, comprising a base adapted to be supported by the running board and projecting laterally therebeyond, said base having upstanding holding means, a screw secured to the base and depending therefrom adjacent the outer edge of the running board, a separate clamp arm having an opening between its ends to receive the screw, with its inner end engaging beneath the running board and its outer end projecting outwardly beyond the running board and engaging the base near its outer edge, and a nut carried by the lower end of the screw.

1,375,214. EXPANSIBLE CORE AND MOLD THEREFOR. BURGESS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 28, 1916. Serial No. 128,226. 15 Claims. (Cl. 18—45.)



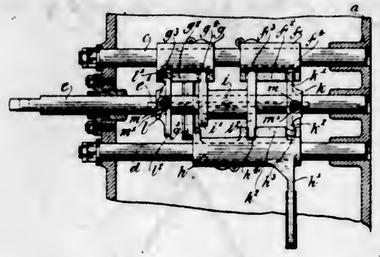
15. A vulcanizing apparatus including relatively movable mating mold members, annular mating core members receivable between said mold members, and means having movement transverse to that of the mold members and actuatable by movement of the mold members for separating the core members without changing the diameter of the core.

1,375,215. VALVE. PATRICK HENRY DAVIS, New York, N. Y., assignor to The Hamilton-Low Company, Jersey City, N. J. Filed Sept. 16, 1919. Serial No. 324,190. 2 Claims. (Cl. 251—18.)



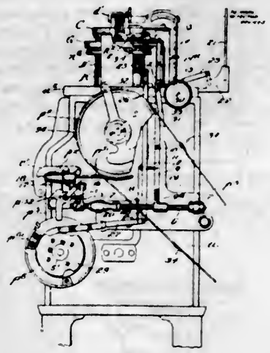
1. A valve comprising a casing having inlet and outlet openings therein, a valve controlling one of the openings and mounted for lateral and oscillatory movements, a beveled extension formed on said valve, a bored extension on said casing, a cam disposed in the path of movement of said beveled extension, pegs carried by the cam and slidable in said bored extension, a pin also slidable in said bored extension into contact with said cam and a screw threaded in the casing and engageable with said pin for adjusting the position of said cam.

1,375,216. SPEED-CHANGE MECHANISM. MAXIMILIAN C. FRINS, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 16, 1920. Serial No. 396,699. 9 Claims. (Cl. 74—58.)



1. Change speed mechanism comprising slidable shifter forks, a selector shaft, locking members for the forks feathered on the shaft and means to hold the locking members against displacement.

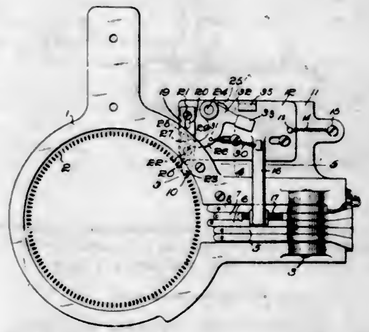
1,375,217. STOP-MOTION AND ALARM MECHANISM FOR KNITTING-MACHINES. AUGUSTIN GAGNÉ, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Sept. 13, 1917. Serial No. 191,098. 9 Claims. (Cl. 66—7.)



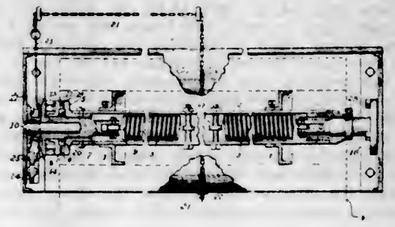
1. Stop-motion and alarm devices for knitting machines comprising a shipper, a spring-actuated rockshaft for actuating said shipper to unship the driving-power, a detent for holding said rockshaft restrained in readiness to act in moving said shipper, a detector adapted to be actuated by a needle which remains unretracted and through which the detent is actuated to release the rock shaft, and an alarm-device having a striker-device connected with said detent and called into action by such actuation of the detent.

1,375,218. STOP-MOTION FOR KNITTING-MACHINES. EDSON S. HINELINE, Apponaug, R. I., assignor to Bodell & Co., Providence, R. I., a Firm composed of Joseph J. Bodell, Frederick B. Wilcox, Louis C. Gerry, Frederick Bodell, Harold C. Fields, and Antonio Lazo. Filed Mar. 20, 1920. Serial No. 367,315. 13 Claims. (Cl. 66—7.)

8. A knitting machine having a series of needles, a movable housing or support, an emergency device carried by the latter, a movable member carried by said movable housing or support and adapted to be engaged by and moved by a defective needle, and means for periodically moving said housing or support so as to withdraw said movable member from functioning relation with respect to the needles.



1,375,219. DOOR-OPERATING MECHANISM. HOWARD A. JOHNSON and FRANCIS T. ETHEREDGE, Norfolk, Va. Filed Mar. 19, 1920. Serial No. 367,230. 7 Claims. (Cl. 189—58.)



1. A counterbalance for flexible doors and the like, comprising in combination, a rotatable hollow shaft or tube, a torsion spring having one end fixed to said tube for producing a counterbalancing force on said tube, a rotatable sleeve to which the other end of said spring is attached, means for fixing the normal position of said sleeve, devices for releasing said fixing means to allow said sleeve to rotate under the force of said spring, means for transferring the force of said spring and sleeve when released to said tube to cause the sleeve to rotate in unison, and means to stop the rotation of said sleeve at a predetermined point to apply a reduced counterbalancing force.

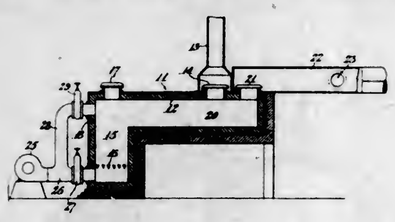
1,375,220. COMPOSITION FOR REPELLING INSECTS. JEAN IGNAZ LEIST, Brooklyn, N. Y. Filed Sept. 13, 1919. Serial No. 323,642. 2 Claims. (Cl. 167—9.)

1. The herein-described composition of matter consisting of a major portion of magnesium carbonate and a minor portion of thymol.

1,375,221. APPARATUS FOR HEATING ORCHARDS. THADDEUS LOWE, San Marino, Calif. Filed Mar. 8, 1919. Serial No. 281,503. 4 Claims. (Cl. 126—59.5.)

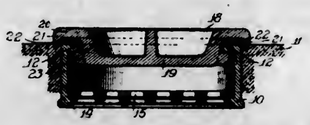
1. An apparatus for heating orchards and the like comprising a furnace having an elongated combustion chamber, means for delivering air under pressure to said

furnace below the fuel, means for delivering air under pressure to said elongated combustion chamber above



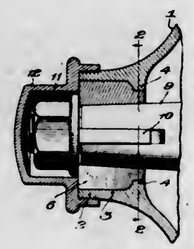
the fuel, a system of heat conducting pipes connected to said combustion chamber, and an exhauster connected to the outer open end of said conducting pipes.

1,375,222. DRAIN-FITTING. WILLIAM F. J. LUTZ, Chicago, Ill. Filed Jan. 16, 1918. Serial No. 212,047. 1 Claim. (Cl. 137—13.)



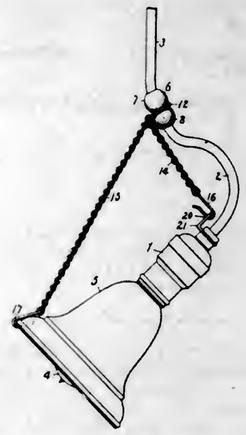
A drain fitting comprising a ring open at both ends and adapted to fit at its top end substantially flush with the floor, in an opening in which the ring is seated, said ring being provided interiorly at the top of its open end with lugs, a cap to cover said fitting and having a peripheral hooked flange to compress and confine a gasket at the floor level between the flange and the top of the ring, and provided with a downward extension having projections adapted for cam face contact with said lugs to compress the gasket and to lock the cap on the ring when the cap is rotated, said ring being provided at its bottom with an internal screen support and a screen supported thereon and having peripheral notches to pass over said top interior lugs, whereby the screen may by rotation be removed from and locked within the ring.

1,375,223. INTERCHANGEABLE HUB FOR MOTOR-VEHICLES. ELMER E. MCINTYRE, Pittsburgh, Pa. Filed Aug. 9, 1919. Serial No. 316,410. 4 Claims. (Cl. 287—53.)



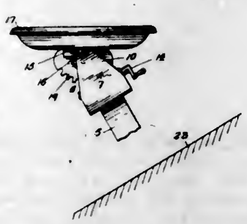
1. As a new article of manufacture, an auxiliary bushing provided with key-ways or channels in the axle-box thereof, and having lugs or keys integral therewith at one of its annular ends, said bushing being designed for emergency use on the driving shaft of the rear axle of a motor vehicle of the standard construction, and adapted to replace the anti-friction bearings in the outer or reduced portion of a hub of a standard wheel designed for use on the front axle of a motor vehicle, and to be removably secured on the said driving shaft of the said rear axle, to provide for the substitution of such front wheel for the usual standard rear wheel upon the rear axle of the standard construction.

1,375,224. LAMP-ADJUSTER. WILLIAM S. MACLEWEE, Trenton, N. J., assignor to Carrie Howell MacLewee, Trenton, N. J. Filed Oct. 25, 1918. Serial No. 259,646. 1 Claim. (Cl. 240—88.)



An electric lamp or the like, a flexible conductor attached thereto, a sleeve adapted to be mounted on the said conductor, said sleeve consisting of two spherical members, one of said spherical members having a screw-threaded projection thereon, the other one of said spherical members having a screw-threaded recess formed therein adapted to receive the said projection on the first mentioned spherical member, a ring loosely mounted between the said spherical members and means carried by the said ring for holding the lamp in various positions.

1,375,225. SEAT CONSTRUCTION FOR FARMING-MACHINES. GUY MARSHALL, Calgary, Alberta, Canada. Filed Nov. 26, 1920. Serial No. 426,384. 1 Claim. (Cl. 155—121.)

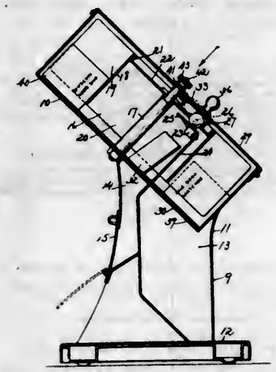


In a seat construction of the class described, a frame having upstanding side and end members, a plate rotatably mounted in the top portions of said end members, a seat mounted on said plate, a gear segment connected with the bottom of said plate and extending downwardly between the end members of the frame, a shaft mounted between the upstanding side members and provided with a worm which coöperates with said gear segment, and means for turning said shaft and said worm.

1,375,226. VENDING-MACHINE. CHARLES MAY, New Britain, Conn. Original application filed Nov. 6, 1918, Serial No. 261,348. Divided and this application filed May 28, 1919. Serial No. 300,457. 12 Claims. (Cl. 211—8.)

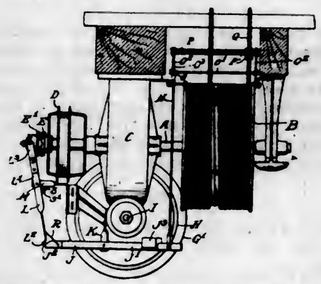
1. A vending machine comprising a case, a shaft within said case, a carrier rotatably supported by said shaft, a

standard located underneath and supporting said case at one side of the center thereof and also supporting said



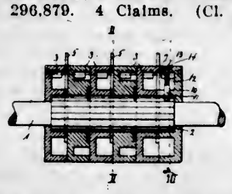
case and its shaft in an inclined position, and means for controlling the operation of said carrier.

1,375,227. SAFETY MECHANISM FOR ELEVATORS. WILLIAM MELVIN, Wilmington, Del. Filed Sept. 22, 1920. Serial No. 411,898. 5 Claims. (Cl. 187—28.)



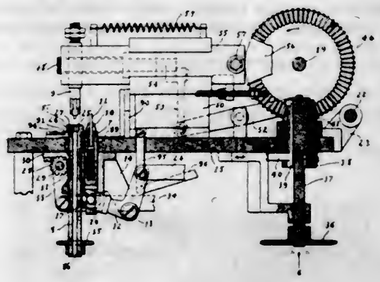
1. A safety device for elevators comprising mechanism for shifting the belts to neutral position, a clutch member secured to said device, a sliding clutch member rotating with the drum, a lever for actuating said clutch member yieldingly held in non-operative position, a weighted lever for actuating the clutch lever with its working end located in such relation to the clutch lever that its upward movement will contact with and actuate the clutch lever to engage the clutch members and means for holding the weighted lever in non-operative position including a supporting lever normally supported by contact with the taut elevator cable and free to drop when the cable breaks or slackens.

1,375,228. FEED-ROLL FOR GRAIN AND SEED CLEANING MACHINES OR THE LIKE. MARIUS JOHAN NIELSEN, Vesteraaby, Denmark. Filed May 13, 1919. Serial No. 296,879. 4 Claims. (Cl. 83—44.)



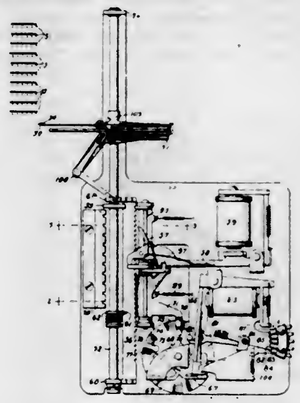
1. A feed roll for grain cleaning machines, comprising a shaft, a plurality of disk-shaped members revoluble about said shaft as a unit, means for locking said members to the shaft for rotation therewith and releasable to permit independent rotation of said members as a unit, each of said disk members being provided with a pair of apertures extending inward from its periphery and an adjustable bar guided in each of said apertures, the shaft and bars having coöperating means for adjusting the latter when the shaft and disk members are independently rotated.

1,375,229. MACHINE FOR ATTACHING STRINGS TO ENVELOPS AND THE LIKE. ABRAHAM NOVICK, New York, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 8, 1919. Serial No. 309,436. 8 Claims. (Cl. 93—61.)



1. In a machine of the character described the combination of two adjacent parallel plungers and a third parallel plunger, means for shifting said third plunger into coaxial alinement with each of the other plungers one at a time, and means for rotating one of said adjacent plungers while it is in alinement with the third plunger.

1,375,230. TELEPHONE-EXCHANGE SYSTEM. JOHN NEWBERRY REYNOLDS, Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 29, 1917. Serial No. 158,190. 13 Claims. (Cl. 179—27.5.)



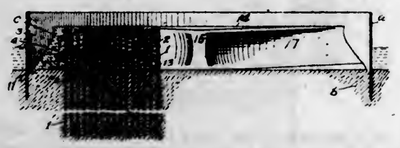
1. In a switching mechanism, a bank comprising a plurality of superimposed flat multiple contact units, each of said units comprising a plurality of sets of conductors, contact surfaces on said conductors situated in rows transversely of said units, contact brushes adapted to be directively moved in one direction into juxtaposition with said units individually and further moved in a second drection transversely of said units to hunt over said conductors and engage any of the said sets of conductors in a selected unit individually.

1,375,231. PIN-ON BUTTON. ANGELO C. ROVELLI, Philadelphia, Pa., assignor to Pivot Button Company, Inc., Philadelphia, Pa., a Corporation of New Jersey. Filed May 10, 1917. Serial No. 167,665. 2 Claims. (Cl. 24—105.)



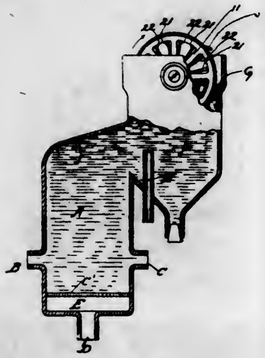
1. A stud for pin-on buttons consisting of a continuous wire and comprising a threaded cylindrical shank having a pointed end, and a circular coil constituting a flat head and disposed at right angles to and concentric with the shank, substantially as and for the purposes described.

1,375,232. BREAKWATER AND PIER AND METHOD OF MAKING THE SAME. ALLAN C. RUSH, Los Angeles, Calif. Filed June 26, 1916. Serial No. 106,075. 3 Claims. (Cl. 61—4.)



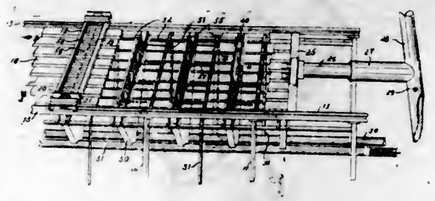
1. A pier having a forward projection and rearwardly extending curved faces sloping upwardly from the front toward the rear, the lower edge of said upward slope being higher at the ends of said curved faces than at said projection so that the water impelled by wave action will be lifted and at the same time deflected laterally to neutralize its own momentum.

1,375,233. ORE-CONCENTRATION PROCESS. WALTER A. SCOTT, Chicago, Ill., assignor to Mineral Separation, North American Corporation, a Corporation of Maryland. Filed Sept. 10, 1917. Serial No. 190,438. Renewed Sept. 15, 1920. Serial No. 410,486. 5 Claims. (Cl. 83—85.)



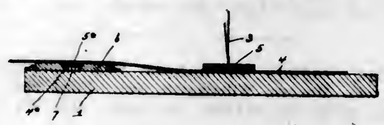
1. A process of concentrating ores comprising the operations of introducing a gas into an ore pulp, removing the gas from the mineral-carrying bubbles so formed before said bubbles reach the surface of the pulp, and separating the mineral carried by the bubbles from the remainder of the ore.

1,375,234. CARBON-PRODUCING APPARATUS. ELBERT W. SHULL, Cowley, Wyo., assignor of one-half to K. E. Anderson, Cowley, Wyo. Filed May 3, 1919. Serial No. 294,601. 9 Claims. (Cl. 134—61.)



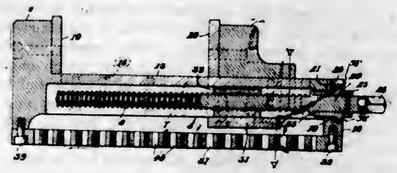
3. In carbon-producing apparatus, a series of hollow sections joined together, and carriages for said sections.

1,375,235. BUTTON-SEWING MACHINE. EUGENE SISSON, Hudson, N. Y. Filed Apr. 12, 1920. Serial No. 373,450. 2 Claims. (Cl. 112—115.)



1. In a button-attaching machine, the combination with button-attaching mechanism; of a gage provided with an opening with an upwardly facing mouth adapted to receive both a depressed portion of a flexible sheet and a button attached thereto, said gage being so located that said opening is at a distance from the button-attaching mechanism corresponding to the desired distance from one button to a neighboring button on said sheet.

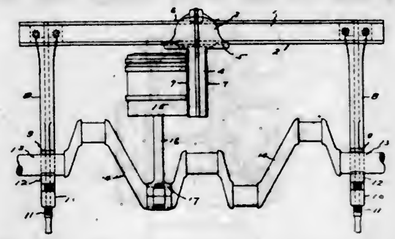
1,375,236. VISE. JOSEPH K. SKINDER, Kenosha, Wis. Filed Feb. 19, 1920. Serial No. 359,889. 9 Claims. (Cl. 90—61.)



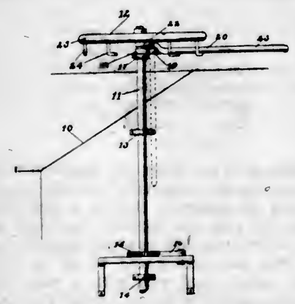
1. A vise comprising a base having a jaw rigid on one end thereof and provided with a longitudinal groove in its under side, a depending flange rigid upon the other end of said base and provided with a central aperture, a bushing secured within said aperture, a feed screw journaled in said bushing and extending toward said jaw within the longitudinal groove of the base, a movable jaw slidably mounted upon said base and provided with depending flanges engaging the opposite sides of said base, a transverse plate secured to said flanges and arranged beneath said base, and a feed nut rigidly secured upon the upper face of said plate within the longitudinal groove of the base and through which said feed screw is threaded.

1,375,237. APPARATUS FOR GAGING ENGINE-PISTONS. LOUIS R. SPENCER, Hartford, Conn. Filed Oct. 14, 1919. Serial No. 330,533. 7 Claims. (Cl. 33—180.)

1. An apparatus for gaging pistons comprising a bar with a straight edge, supporting legs depending from the bar, means at the ends of the legs for fixing them in position with the straight edge of the bar at right angles to the surface to be gaged, and a gaging arm with a straight edge extending at right angles to the straight edge on the bar, said arm being movable transversely back and forth toward and from said supporting legs along the entire length and off the ends of the bar without disturbing the bar or altering its position.

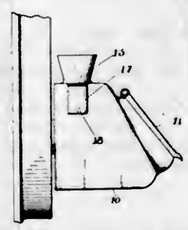


1,375,238. ATTACHMENT-LEVER FOR BRAKE STAVES AND WHEELS. HENRY C. STOKES, Sumter, S. C. Filed Sept. 29, 1920. Serial No. 413,509. 3 Claims. (Cl. 74—115.)



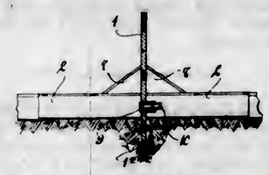
1. A lever attachment for brake staves and wheels comprising a lever pivotally supported on a loose collar on the brake staff below the wheel, said lever having one end adapted to extend beyond the periphery of the brake wheel, means on its other end adapted to engage the brake staff, and means for connecting said lever with the wheel.

1,375,239. RAILWAY JOURNAL-BOX. HENRY C. STOKES, Sumter, S. C. Filed Sept. 29, 1920. Serial No. 413,510. 1 Claim. (Cl. 64—22.)



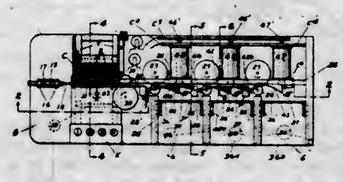
A journal box formed with a receptable on its top for cooling liquids and a container on one of its sides for lubricating oil as an integral casing structure for journal members, and provided with passages leading from the receptacle and container to the interior thereof as set forth.

1,375,240. IRRIGATION-REGULATOR. FRANK SULLIVAN, Cusick, Wash. Filed Oct. 9, 1919. Serial No. 329,566. 1 Claim. (Cl. 61—29.)



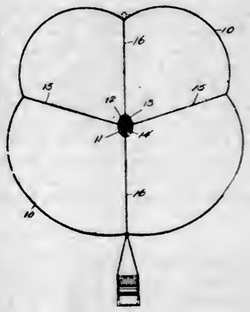
The combination in an irrigation regulator, of a board adapted to be driven into the bottom of a ditch and form an abutment, said board having an opening therethrough, detachable means for insertion into said opening for varying the area of said opening to control passage of water therethrough, flexible aprons attached to said board and adapted to form lateral troughs in the ditch, and bracing elements between said board and aprons.

1,375,241. CARD-DISTRIBUTING MACHINE. ARTHUR S. TREW, Portland, Oreg. Filed Jan. 8, 1920. Serial No. 350,252. 13 Claims. (Cl. 214—11.)



1. In a card distributing machine, in combination, a container for cards, an ejector working therein, a series of card receiving pockets, with a straight horizontal card passageway formed from said container alongside of said pockets, a series of feed rollers arranged in pairs along said passageway and adapted to feed the cards along said passageway from said container, with means for driving the same, switch members for said card receiving pockets adapted to be moved across said passageway to direct cards into said pockets, a series of keys corresponding to said receiving pockets, and operating connections from said keys to said ejector and said switch members, whereby the movement of the key in one direction operates said ejector to eject a card and also sets the desired switch member.

1,375,242. AIRSHIP. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 25, 1918. Serial No. 259,640. 17 Claims. (Cl. 244—3.)



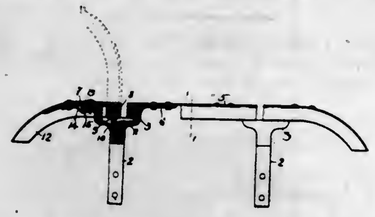
1. An airship of the non-rigid type comprising in combination with a balloon envelop, a longitudinal com-

pression element disposed interiorly of the envelop and in the approximate longitudinal center thereof, said element comprising longitudinally disposed mating connected sections, and means connecting the envelop with the compression element throughout the length of said compression element.

1,375,243. EXPLOSIVE. GUILLAUME WEBER, Hayange, France, assignor to Societe Les Petits Fils De Francois De Wendel Et Cie., Paris, France. Filed Sept. 27, 1919. Serial No. 326,973. 4 Claims. (Cl. 52—1.)

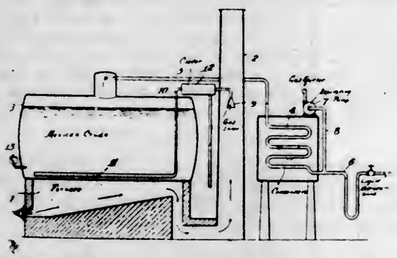
1. An explosive containing a combustible organic substance adapted to absorb liquid air, and blast furnace dust.

1,375,244. BUMPER FOR MOTOR-CARS. ROLVIN S. WHITNEY, Lewiston, Me. Filed Aug. 6, 1919. Serial No. 315,595. 2 Claims. (Cl. 293—55.)



1. In a bumper for motor cars, the combination of a transverse bar, a pair of hangers for securing said bar to the car, each of said hangers terminating in a recessed head an end section hinged by its inner end in each of said recessed heads and springs within said heads for retracting said sections to their normal position.

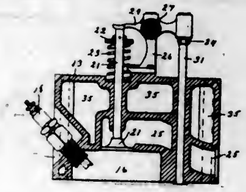
1,375,245. PROCESS OF DISTILLING HYDROCARBONS. WILLARD C. AVERILL, Jr., Houston, Tex. Filed July 12, 1919. Serial No. 310,334. 1 Claim. (Cl. 196—27.)



The method of simultaneously producing pale lubricating oil and distillates including gasolene from crude petroleum oil containing asphalt forming material in material quantities and having high sulfur content as exemplified by Gulf Coast crude petroleum, comprising heating the bottom of a still containing said crude oil directly by products of combustion, cooling a portion of said products after having used the same under the still, passing said cooled portion through the oil in said still, while heated as aforesaid, and subsequently condensing out the hydrocarbon vapors from said portion.

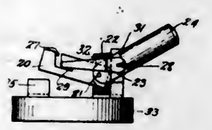
1,375,246. OVERHEAD VALVE ATTACHMENT FOR FORD MOTORS. ROLLIN J. BARRETT and GEORGE E. BEAN, Mitchellville, Iowa. Filed Feb. 10, 1917. Serial No. 147,777. 1 Claim. (Cl. 123—173.)

A valve-in-the-head block for replacing the heads of L-type motors, having bores coincident with those of the cylinders of the motor and provided with ports, a V-shaped recess in one side of the block extending the length thereof, said block also having spark plug openings in the bottom wall of the recess leading direct to the block bores, the axes of said openings being inclined



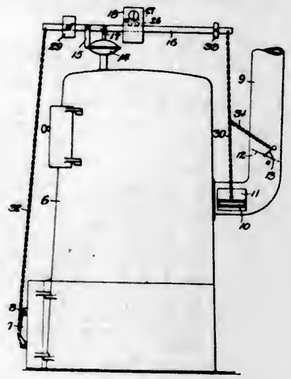
from the vertical, a water passage interposed between the other wall of the recess and said ports, valves for the ports having stems slidable vertically through the block, springs seated in cavities in the top of the block and about the stems for urging the valves closed, and means on the block for opening the valves.

1,375,247. MECHANICAL MOVEMENT FOR ELECTRIC SWITCHES, &c. WALTER A. BEHRENS, Brooklyn, N. Y. Filed Dec. 6, 1919. Serial No. 343,056. 10 Claims. (Cl. 74—14.)



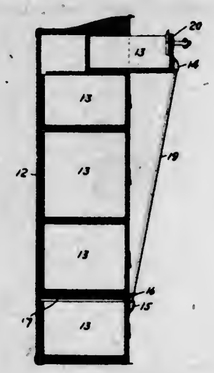
1. Mechanism of the character described comprising, a pivoted contact arm, a manually movable operating member supported independently thereof, a compression spring carried by said arm and movable therewith and a link pivotally connected to said manually operable member and engaging said arm and spring so as to compress the spring and operate said arm with a snap action when said operating member is moved beyond a certain point.

1,375,248. DRAFT-CONTROLLING DEVICE FOR HEATERS. CLARENCE B. BURKE, Plymouth Meeting, Pa. Filed Aug. 24, 1920. Serial No. 405,625. 4 Claims. (Cl. 161—8.)



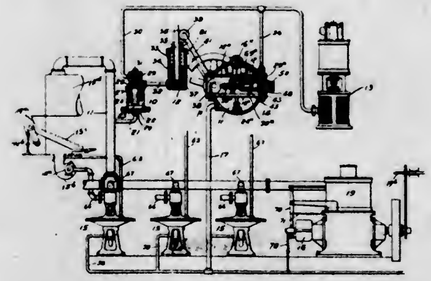
1. A device of the character described including a lever operative when overbalanced to open the draft of a heater; and a clock operative at a predetermined time to move along said lever to overbalance the same and effect said draft; substantially as described.

1,375,249. DRAWER-LOCKING DEVICE. GEORGE F. GRUBE, Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 23, 1920. Serial No. 418,963. 7 Claims. (Cl. 45—94.)



4. A trunk having a drawer compartment, a plurality of drawers slidably mounted therein, means to lock one of the drawers to the trunk body, a locking bar, independent of said locking means, extending in front of other drawers, a seat in which one end of the locking bar is adapted to swing, and a seat carried by the first named drawer in which the other end of the locking bar is adapted to swing, said bar being removable from its seats when the first named drawer is unlocked and pulled outward.

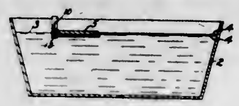
1,375,250. STOKER CONTROL. HERBERT T. HERR, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 6, 1915. Serial No. 60,073. 11 Claims. (Cl. 236—14.)



3. In combination in a boiler control apparatus, a fluid pressure actuated control mechanism for controlling the operation of a boiler accessory, a relay mechanism for delivering actuating pressure to said mechanism, means controlled by variations in the steam pressure of the boiler controlled for controlling the operation of the relay, and means responsive to variations in speed of the accessory for counterbalancing the actuating pressure.

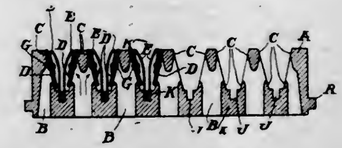
1,375,251. METHOD OF ORNAMENTING SHEET-GLASS. MICHAEL J. HOWARD, Hartford, Conn. Filed June 30, 1920. Serial No. 392,909. 2 Claims. (Cl. 91—68.)

1. A method comprising placing colors on the surface of a liquid, dipping an object into the liquid to cause the colors to be applied to the surface of the object and also to be removed from the liquid, removing the object from the liquid, then applying a coating to the colored surface



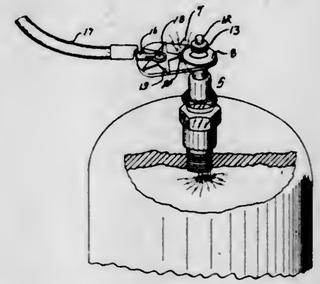
of the object, and then separating the surface of the liquid which has had the colors removed, from the remainder of the surface.

1,375,252. PLATE-VALVE. LESLIE R. HUFF, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 6, 1920. Serial No. 371,596. 10 Claims. (Cl. 251—119.)



1. A plate valve comprising a valve seat having passage ways, flat seating surfaces inclined at an angle to the longitudinal axis of the valve, rigid valve plates adapted to be seated on said inclined surfaces over the passage ways, and spring arms supported on the valve seat and operatively connected to the valve plates, said valve plates assuming positions lying in planes substantially parallel to the longitudinal axis of the valve during the passage of fluid.

1,375,253. SPARK-PLUG INTENSIFIER. ALFRED A. JACKSON, Denver, Colo. Filed Sept. 18, 1919. Serial No. 324,586. 4 Claims. (Cl. 175—183.)

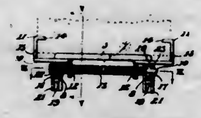


4. A device of the class described, comprising an insulating member, a star-shaped electrode rotatably adjustable thereon, the electrode and the said member being perforated to receive a fastening device, a coöperating terminal also mounted on the said member, the terminal and member being perforated to receive the stem of the spark plug, the insulating member also having a perforation adjacent the gap between the electrode and the terminal.

1,375,254. ICE-CREEPER. ALOIS KRIŽAN, Philadelphia, Pa. Filed Sept. 25, 1920. Serial No. 412,656. 2 Claims. (Cl. 36—64.)

1. An ice creeper embodying a base member of substantially U-shaped inverted form and having longitudinal slots in the horizontal central portion thereof each extending from a point near the center of said central portion to the ends of the latter, the legs of said base member being provided with transverse slots wider than

the aforesaid slots and communicating with the latter, a screw journaled longitudinally beneath the central portion of the base member and supported by the legs of the latter, said screw being of right and left hand form, clamping plates including horisontal portions slidably fitted in the transverse slots of the base member legs and

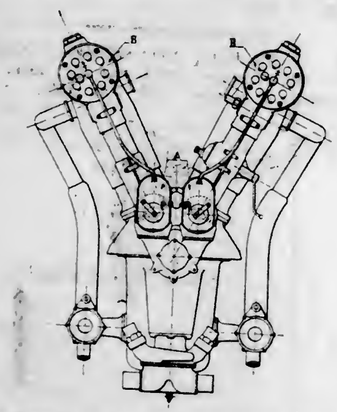


having depending inner ends with the screw threaded therethrough, and means upon the legs of the base member formed for non-slipping engagement with the ice, said last named means including split sleeves clamped upon the legs of the base member and having serrated lower edges.

1,375,255. STEEL. PETER MACGREGOR and ARTHUR BALFOUR, Sheffield, England. Filed Sept. 18, 1918. Serial No. 254,693. 4 Claims. (Cl. 75—1.)

1. An improved steel suitable for cutting and milling tools and as a substitute for high speed steel, containing from 1 to 6 per cent. of nickel, from 1 to 3.5 per cent. of carbon, from 7½ to 20 per cent. of chromium, and from 0.25 to 1 per cent. of manganese.

1,375,256. IGNITION APPARATUS FOR AVIATION-ENGINES. AUGUSTE MAIRE, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville, Paris, France. Filed Aug. 9, 1917. Serial No. 185,242. 2 Claims. (Cl. 123—149.)



1. In ignition apparatus for aviation engines having a plurality of cylinders and a plurality of spark plugs in each cylinder, the combination with a plurality of magnetos driven from the crank shaft of the engine, of a plurality of distributers each adapted to be operated by a different cam shaft of the engine, an electrical connection from each magneto to its corresponding distributer, and an electrical connection from each distributer to one of the spark plugs in each cylinder, whereby a plurality of independent current supply means is provided for the several spark plugs of each cylinder.

1,375,257. AUTO-HOOD ANTIRATTLING DEVICE. TRUMAN J. MARTIN, Allentown, Pa. Filed Feb. 17, 1920. Serial No. 359,309. 1 Claim. (Cl. 292—128.)

A hood holding device for automobile hoods, said device comprising a housing secured to the rail of an automobile frame, an upstanding pivoted arm pivoted in said housing, the upper end of said arm being provided with a recess having its upper wall inclined upwardly and outwardly from substantially a central point and adapted to receive and engage over a similarly shaped lug carried by the hood, an outwardly and upwardly extending integral arm carried by the pivoted arm, a coiled spring interposed between the outwardly and upwardly extending arm and



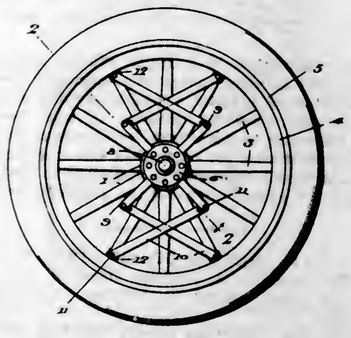
the housing at substantially a right angle to the upwardly and outwardly extending arm for normally holding the upstanding pivoted arm inwardly and an abutment lug carried by the housing against which the inner side of the hood engages and is held when said hood is in closed position.

1,375,258. PEANUT-HARVESTER. SELLERS C. MAY, Troy, Ala. Filed Jan. 10, 1919. Serial No. 270,493. 2 Claims. (Cl. 55—9.)



1. The combination with a movable frame of the plow carried by said frame, said plow comprising a horizontally disposed earth and root severing portion, arms extending upwardly from said horizontal portion and engaging the sides of the frame, means carried by the sides of the frame for guiding the plow during a vertical movement, means for moving said plow vertically upwardly or downwardly, and spring means connected to the upwardly extending arms and to the frame whereby a downward movement will be imparted to the plow when the lever is released.

1,375,259. WHEEL-DRIVE. HENRY NELSON, Beloit, Wis. Filed May 23, 1919. Serial No. 299,191. 3 Claims. (Cl. 64—98.)



1. A wheel structure having in combination, a shaft, a wheel mounted loosely thereon, a driving hub secured

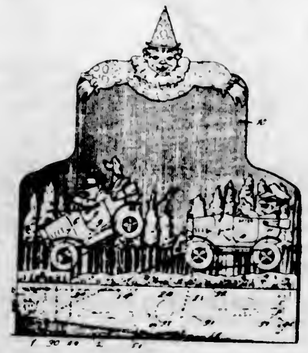
from the shaft, bars extending from said hub, and bars extending at an angle to the spokes, and pivotally connected at their inner ends to the aforesaid bars and at their outer ends to the wheel near the rim thereof.

1,375,260. ADVERTISING DEVICE. ANDREW RASMUSSEN, Sr., and ANDREW RASMUSSEN, Jr., Ridgway, Colo. Filed Sept. 30, 1920. Serial No. 413,781. 4 Claims. (Cl. 40—69.)



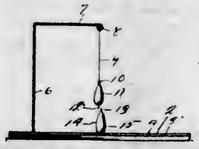
1. An advertising device comprising a longitudinally disposed endless scene, a back ground rising upwardly, a rotatable sign disposed behind said back ground and adapted to be rotated for positioning various signs in registration with openings in the back ground, a horizontally disposed shaft disposed below the rotatable sign, means for intermittently rotating said shaft, a figure disposed above the rotatable sign and provided with pivoted arms, and means whereby as the shaft is intermittently moved the rotatable sign will be intermittently moved and the pivoted arms of the figure moved in the direction of the sign openings in the back ground.

1,375,261. ADVERTISING DEVICE. ANDREW RASMUSSEN, Sr., and ANDREW RASMUSSEN, Jr., Ridgway, Colo. Filed Oct. 14, 1920. Serial No. 417,042. 5 Claims. (Cl. 40—32.)



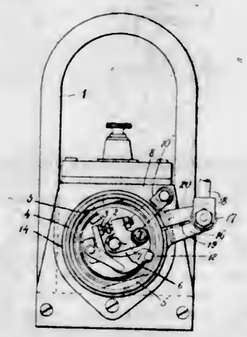
1. A device of the character described comprising an endless vertically disposed scenic belt, and a pivoted lever, a single source of power for operating the scenic belt and oscillating the pivoted lever, said lever being operable by means of an eccentrically disposed pin carried by a rotatable member, means for varying the position of the pivotal point of the lever for varying the oscillation of the lever, a pivoted figure having operable parts thereon, and a fixed figure having operable parts thereon and means operable from the single source of power for operating the operable parts on the figures, said pivoted figure being oscillated on its pivotal point by the oscillation of the pivotal lever simultaneously with the operation of the operable parts thereon.

1,375,262. GAME. THEODORE H. SCHROR and GEORGE L. SCHROR, Avon, N. Y. Filed Oct. 20, 1920. Serial No. 418,196. 2 Claims. (Cl. 46—59.)



1. A game comprising a base having a flat surface and an inclined surface, a swinging weight carried by a support and disposed above the base, said swinging weight being provided with a downwardly extending pin, a weight disposed on the base adjacent the inclined surface thereof and provided with an upwardly extending pin, said upwardly extending pin being adapted to be engaged by the downwardly extending pin of the swinging weight, which swinging weight tilts the base carried weight and allows the same to roll down the inclined surface.

1,375,263. IGNITION-TIMING MECHANISM. WOLFGANG E. SCHWARZMANN, Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1917. Serial No. 193,242. 5 Claims. (Cl. 200—19.)

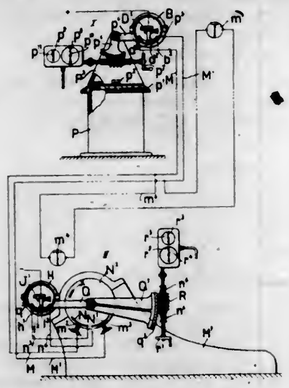


1. In variable timing mechanism for mechanical interrupters for ignition apparatus, an adjustable member carrying one of the elements of the mechanical interrupter and having wedge teeth on its periphery, a timing member comprising an arm and a ring connected to the arm and having wedge teeth adapted to mesh with the wedge teeth on the adjustable member, and means for contracting and expanding the ring around the adjustable member, whereby the ring and the adjustable member may be meshed around their peripheries with the arm extending in any desired angular relation to the adjustable member for connection to an adjusting wire or rod.

1,375,264. FIRE-CONTROL APPARATUS PARTICULARLY INTENDED FOR NAVAL GUNS. HERMANN SUNDHAUSSEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,090. 7 Claims. (Cl. 89—41.)

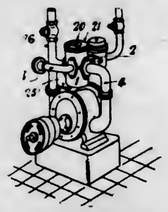
1. An apparatus of the class described comprising a stabilizing apparatus, a device stabilizable by said apparatus, a second stabilizing apparatus, a second device sta-

billizable by said apparatus, means for adjusting the stabilizable devices, electric means connecting said stabilizing



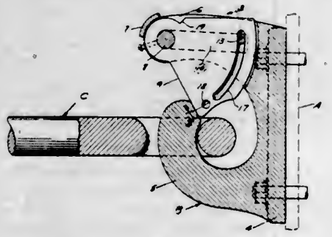
apparatus and stabilizable devices in such a manner that the one stabilizable device is adjustable parallel to the other stabilizable device.

1,375,265. AUTOMATIC GAS AND LIKE REGULATOR. ERNEST TURNER, Urmston, near Manchester, England. Filed Sept. 21, 1917. Serial No. 192,512. 5 Claims. (Cl. 48—184.)



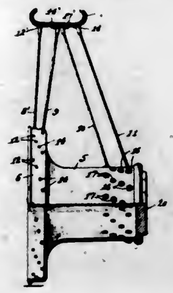
1. An apparatus for regulating the volume and pressure of fluid mixtures so as to maintain a predetermined proportional mixture and pressure of the gases or vapors irrespective of the rate of flow comprising a valve casing having separate ports communicating with conduits for the fluids to be mixed, with the suction side of a compressor and with the delivery main, a piston valve in said casing and hand operated means to rotate the piston angularly, the arrangement being such that the valve constitutes a combined admission regulator and circulation regulator, subatantially as described.

1,375,266. COUPLING. TOBIAS WEBER, Los Angeles, Calif. Filed Mar. 8, 1920. Serial No. 363,968. 2 Claims. (Cl. 213—45.)



1. A coupling member comprising a hook, a gravity operated guard for closing the mouth of said hook, said guard having a shaft secured thereto pivotally mounted on said hook and forming a handle for manipulating the guard, said guard being mounted to swing away from the point of said hook and to close the mouth thereof by engaging the inner side of the point, and a detent on said hook disposed to engage a recess in said guard for holding the latter in open position.

1,375,267. WIRE-SPOKE WHEEL. LOUIS SANFORD WEIL, Glenrose, Ohio. Filed June 9, 1920. Serial No. 387,554. 4 Claims. (Cl. 301—56.)



1. In a wheel of the character described, a plurality of rows of spokes arranged to form a flange-group which extends forwardly only to the center of the rim and inner and outer barrel-sets uncrossed relative to each other and extending from near the outer end of the hub to the center and outer edge of the rim respectively.

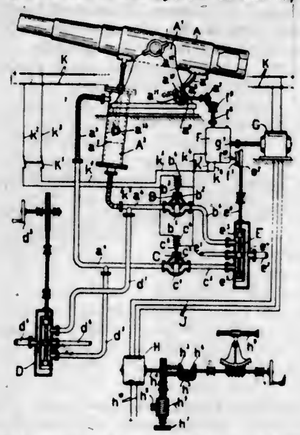
1,375,268. HOT-PLATE LIFTER. ARTHUR L. WITTENMYER, Kirkland, Wash. Filed June 30, 1919. Serial No. 307,606. 9 Claims. (Cl. 294—28.)



1. A hot-plate lifter comprising horizontally extending pivoted handles having plate engaging jaws with spaced top and bottom portions and a lifting handle extending transversely of the jaws and comprising pivotally connected levers which are each loosely connected at one end with one of the jaws connected to said jaws.

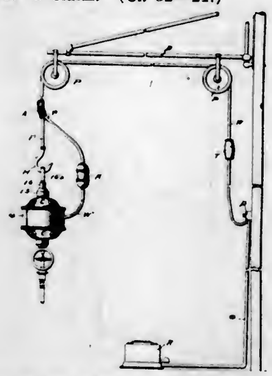
1,375,269. APPARATUS FOR THE ELECTRICAL LONG-DISTANCE CONTROL OF THE VALVE-GEAR OF A HYDRAULIC GUN-POINTING GEAR. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,070. 7 Claims. (Cl. 89—41.)

1. A controlling device for guns comprising an elevating mechanism of the hydraulic type, means for supplying a hydraulic medium to a hydraulic device, a system of valves for controlling the hydraulic medium, a range device and sighting telescope, a control device for the system of valves embodying a contact device, electrical means controlled by said contact device for operating a part of said system of valves and additional means for controlling the rest of the system of valves, said control



device being operatively connected to the sighting telescope.

1,375,270. PORTABLE MOTOR. JAMES AUSTIN ANDERSON, Chickasha, Okla. Filed May 26, 1920. Serial No. 384,419. 1 Claim. (Cl. 32—21.)



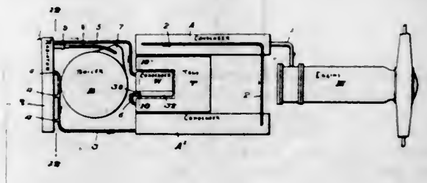
In combination, a motor including a casing, a suspension bracket carried by the casing, a support including pulleys, a conducting wire trained over said pulleys, and connected to said motor, said conducting wires being formed of sections with one of said sections carried by said motor, a flexible member secured to said conducting wires and a hook carried by said flexible member and engaging the suspension bracket for supporting the motor in vertical position.

1,375,271. UTENSIL-HANDLE GUARD. MYRTLE A. ANDES, Huntington, W. Va. Filed July 16, 1920. Serial No. 396,774. 1 Claim. (Cl. 53—3.)



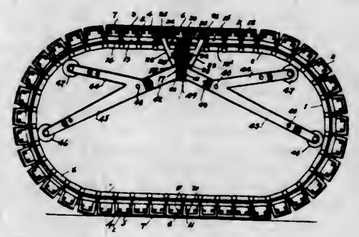
A guard for utensil handles comprising an upper plate having an end portion bent at right angles thereto, said plate being provided with side flanges bent under the same, the angularly bent end of the plate being provided with fingers separated partially therefrom on transverse lines and coöperatively bent to form a securing loop, a lower plate held in parallel relation to the upper plate by said flanges, and a layer of heat non-conducting material clamped between said plates.

1,375,272. STEAM-CONDENSING APPARATUS. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Oct. 19, 1918. Serial No. 258,799. 6 Claims. (Cl. 257—25.)



6. In a steam condensing system, a water tank, a boiler having a draft flue, steam condensing means, a discharge pipe for the condensing means leading to the water tank, a pressure pipe for the discharge of steam from the condensing means connected to said flue for the discharge of steam into the flue to increase the draft, and a normally closed pressure valve for the pressure pipe adapted to open and permit the flow of steam into the flue when the pressure rises above the predetermined amount.

1,375,273. TRACTION-DRIVE. HARVEY NELSON BINGHAM, Weyburn, Saskatchewan, Canada. Filed June 26, 1919. Serial No. 306,987. 10 Claims. (Cl. 180—9.1.)

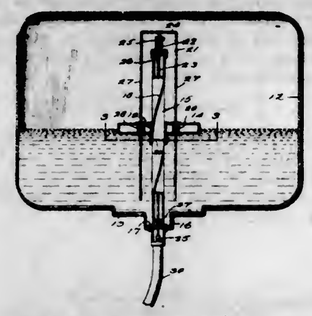


1. In combination, a continuous traction tread formed from similar tread sections pivotally connected together and presenting vertical and horizontal tracks, compression springs associated with adjacent tread sections, a load suspended from the upper side of the tread and riding one of the tracks and a drive for the tread engaging the other of the tracks.

1,375,274. LIQUID-GAGE. EDWARD V. BOILER, Westside, Iowa. Filed Jan. 15, 1920. Serial No. 351,571. 3 Claims. (Cl. 73—82.)

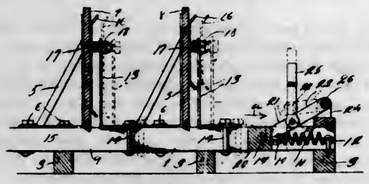
1. In apparatus of the character described, a liquid holding tank, a substantially vertical stationary tube arranged within the tank and having a spiral guide means, a vertically movable float arranged within the tank exteriorly of the stationary tube and having a central opening to receive the tube and transverse openings arranged outwardly of the central opening, an element secured to the float and engaging the spiral guide means, an inverted approximately U-shaped member having its arms operat-

ing within the outer openings of the float, a drive shaft rotatable within the tube and connected with the inverted



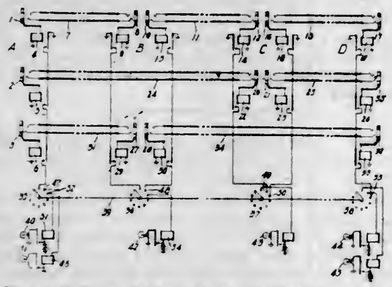
approximately U-shaped member, and an indicator connected with the drive shaft to be moved thereby.

1,375,275. BOX-FORMING MACHINE. CHARLES L. BROWN, Robinson, Kans. Filed Sept. 8, 1920. Serial No. 408,920. 2 Claims. (Cl. 144—295.)



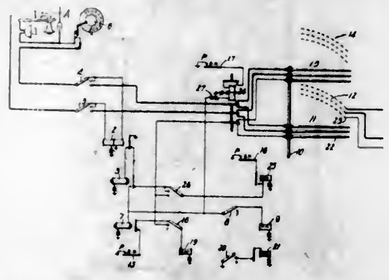
1. A box forming machine comprising a base, brackets carried by said base, a slidable bar slidably mounted in the base, brackets carried by said slidable bar and adapted to coöperate with the brackets carried by the base, said slidable bar being horizontally disposed, a coiled spring connected to one end of the slidable bar and to the base for normally holding the slidable bar and its brackets out of operative position, link connections comprising a pair of links pivoted together and having their other ends pivoted to the base and to the end of the slidable bar, said link connections when in alinement forcing the brackets carried by the slidable bar and the base into clamping position, and a handle pivoted to the links at their point of pivotal connection to each other, said handle extending upwardly where it can be readily grasped by the operator.

1,375,276. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,662. 12 Claims. (Cl. 179—43.)



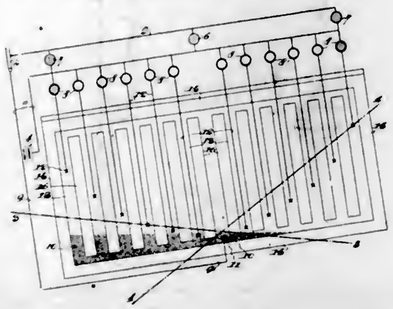
9. In a telephone system, a sectionalized trunk circuit, means associated with certain sections of said circuit for indicating the status of other sections, and means operating in synchronism for controlling the first named means.

1,375,277. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 5, 1919. Serial No. 302,029. 5 Claims. (Cl. 179—18.)



1. In a telephone system, telephone lines, a sender associated with each of said lines, said sender being arranged to transmit long and short impulses, means for interconnecting said lines including automatic switches, said switches including a plurality of brush sets, and a slow-acting relay for selecting a particular one of said brush sets, said slow-acting relay being responsive to the long impulses transmitted by said senders.

1,375,278. INCLINE-INDICATOR. WILLIAM S. CLAYTON, Vancouver, British Columbia, Canada. Filed Sept. 5, 1918. Serial No. 252,803. 4 Claims. (Cl. 177—351.)



1. An incline indicator, comprising in combination, an energized closed circuit in which is an incandescent lamp, a series of lamps arranged on each side of the aforesaid lamp, one terminal of each of which is connected to a wire of the closed circuit and the other terminal of each separately connected to a contact projecting into an elongated cell in which a body of quicksilver is movable; which quicksilver is connected in the closed circuit but is not in contact with the lamp terminal contacts when the indicator is horizontal but which when the indicator is inclined to one side or the other will connect each lamp successively in the closed circuit from the middle lamp outward.

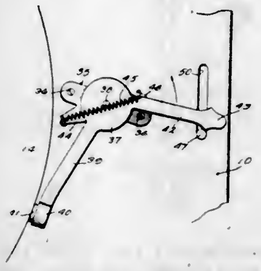
2. An incline indicator, comprising an elongated cell in which a body of quicksilver is movable, the upper part of which cell is divided into a series of substantially upright ducts into each of which a contact terminal projects, the quicksilver being electrically connected to an energized circuit and the contact terminals separately connected to one side of the same circuit with an incandescent lamp in each of such contact connections, the depth to which the lamp contact terminals project into each cell being such that as the cell is inclined to one side of the other the contact nearest the midlength of the cell will be

the first closed with the quicksilver and the others successively from that to the outer end.

3. An incline indicator comprising an elongated cell having a series of upwardly projecting subdivisions, the lower ends of which subdivisions are connected together, a terminal contact projecting downward into each vertical subdivision of the cell, a body of quicksilver in the lower part of the cell and movable in it to rise in each vertical subdivision on either side of the midlength as the cell is inclined to one side or the other, said quicksilver being electrically connected in an energized circuit to one side of which circuit each terminal contact of each subdivision is separately connected, and a lamp in the separate connection of each terminal contact.

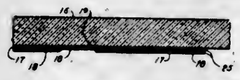
4. An incline indicator, comprising an elongated cell having a series of upwardly projecting subdivisions, the lower ends of which subdivisions are connected together, a terminal contact projecting downward into each vertical subdivision of the cell, a body of quicksilver in the lower part of the cell and movable in it to rise in each vertical subdivision on either side of the midlength as the cell is inclined to one side or the other, said quicksilver being electrically connected in an energized circuit to one side of which circuit each terminal contact of each subdivision is separately connected, the depth to which the terminal contact when the quicksilver before those that are nearer that those nearer to the middle on each side will make contact with the quicksilver before those that are nearer the ends.

1,375,279. TIME-CONTROLLED MECHANISM FOR GRAPHOPHONES. JAMES COIA, Ravenna, Ohio. Filed May 6, 1920. Serial No. 379,238. 6 Claims. (Cl. 188—110.)



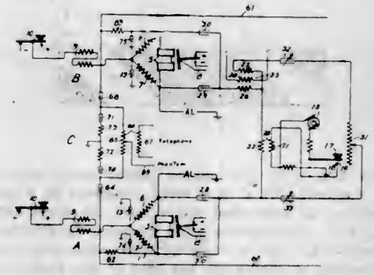
1. In apparatus of the character described, the combination with the casing and rotatable table of a sound reproducing machine, of a brake element to engage the rotatable table and hold it against movement including a movable element, a longitudinally movable rod arranged within the casing, yielding means to move the rod in one direction, means for controlling the movement of the rod by the yielding means, and a vertically adjustable element connected with the rod to engage with the movable element.

1,375,280. STREET-TRAFFIC SIGNAL. JAMES A. COOK, East Bridgewater, Mass. Filed Sept. 21, 1920. Serial No. 411,698. 2 Claims. (Cl. 40—135.)



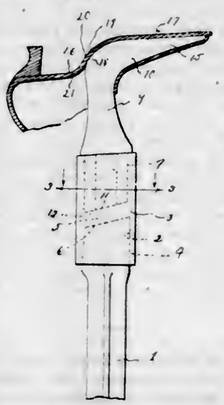
1. A signal, adapted for both day and night use, said signal comprising a box having an opening, a transparent pane secured in and filling the area of said opening, the box and pane constituting a casing, a portion of the external surface of which is formed by the outer side of the pane, an illuminator inclosed by said casing, two surface coatings of material adherent to the pane, painted on the inner side of the pane, and contrasting strongly in color with each other, one coating being opaque, light-absorbing, and interrupted by sign-forming openings exposing inner side portions of the pane, and the other coating being translucent and light-reflecting, and covering the said exposed inner side portions, so that the sign characters are rendered legible, by daylight reflected from said translucent coating through the pane, and from the outer side of the latter, and by artificial light from said illuminator.

1,375,281. TELEGRAPH SYSTEM. GEORGE C. CUMMINGS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 28, 1918. Serial No. 237,009. 13 Claims. (Cl. 179—4.)



1. In a system of simultaneous telephony and telegraphy, a circuit formed of a pair of line conductors, means for telephoning over said circuit, duplex equipments for employing direct currents in signaling in earth-return relation over said line conductors respectively, and further equipment for each line conductor comprising a first transformer having several windings, a plurality of derived circuits opaque to direct currents extending from said respective duplex equipment to respective windings on said transformer, a second transformer connected to extend the derived circuits through said first transformer, and means included with said second transformer for employing alternating currents in telegraphing over said line conductors respectively independently of said telephoning and said direct current telegraphing.

1,375,282. HIGH-ARCH-REPAIR LAST. GEORGE DOERING, St. Louis, Mo. Filed July 8, 1920. Serial No. 394,640. 1 Claim. (Cl. 12—123.)



The combination with a repair jack having a rectangular shaped head and a reduced portion of a shoe last, of

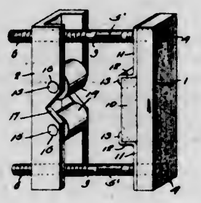
an extension member therefor, said extension member comprising an elongated member provided with sockets at its ends, the bottoms of which are disposed at an incline to the side walls of the sockets for the reception of the rectangular head of the repair jack and the reduced portion of the shoe last, said rectangular head of the repair jack and the reduced portion of the shoe last having inclined end surfaces for engaging the bottoms of the recesses in the extension member.

1,375,283. WELT-STRIP AND METHOD OF MAKING SAME. ERNEST W. DUNBAR, Hudson, Mass., assignor to Apsley Rubber Company, Hudson, Mass., a Corporation of Massachusetts. Filed Oct. 20, 1919. Serial No. 332,038. 2 Claims. (Cl. 154—2.)



1. A welt strip for making rubber welts with fibrous core, consisting of a long strip composed of a plurality of sections of rubberized fabric with the fibers extending on the bias, said sections being spaced in lengthwise series and united together at their adjacent ends, and a continuous coating of rubber on one face of the strip of united sections in such manner as to form a smooth exterior surface on the rubber side.
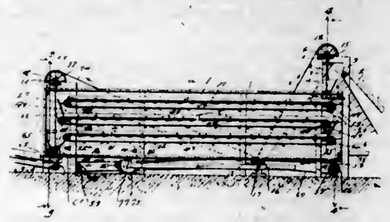
1,375,284. CRANK-SHAFT-LAPPING TOOL. EDISON REED ELLIOTT, Champaign, Ill. Filed Aug. 19, 1920. Serial No. 404,532. 6 Claims. (Cl. 51—255.)



1. A crank shaft lapping tool comprising opposed relatively fixed and sliding frame elements, an abrasive element carried by the relatively fixed frame element, bolts having threaded ends secured in the relatively fixed frame element and opposite threaded ends passing loosely through the relatively sliding frame element, said bolts also having intermediate angular portions, fastening means for the abrasive element engaging said abrasive element and secured in position upon the first-named threaded ends of the bolts, a pair of transversely disposed rollers carried by the relatively sliding frame element and arranged on opposite sides of a line passing through the transverse center of the abrasive element, and nuts engaging the second-named threaded ends of the bolts for maintaining said frame elements in relatively adjusted position.

1,375,285. PULP-BLEACHING APPARATUS. HARRY ELLWOOD ELLIS, Leesburg, Fla. Filed Mar. 12, 1920. Serial No. 365,249. 8 Claims. (Cl. 8—2.)

1. A pulp bleaching apparatus comprising a chamber, conveyers located in said chamber, said conveyers moving in opposite directions, means for filling said chamber with a bleaching gas and means for feeding pulp onto said conveyers and removing said pulp from the bleaching chamber in such a manner that the pulp forms a seal for preventing escape of the bleaching gas.

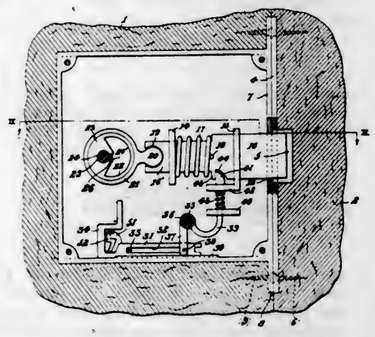


1,375,286. SUPPORT FOR TRAPS. WALTER A. GIBBS, Wilmington, Del. Filed Sept. 24, 1919. Serial No. 326,055. 3 Claims. (Cl. 43—96.)



1. The combination of a post, a trap and means for locking the trap to the post, said means being releasable by an initial vertical movement of the trap from the post.

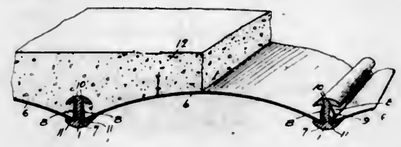
1,375,287. LOCK. SIMO GJUKIĆ, Columbus, Ohio. Filed Oct. 30, 1920. Serial No. 420,705. 4 Claims. (Cl. 70—29.)



1. A door lock of the type described comprising a casing, a sliding latch bolt mounted therein, a latch device

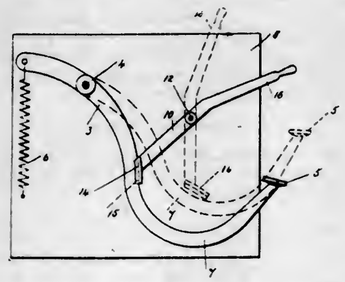
pivotally mounted within the casing and comprising a downwardly extending arm and an upwardly curved arm, a latch head carried by the upper end of the curved arm, a coil spring surrounding the curved arm and engaging the head of the latch device for normally forcing the same into positive engagement with the sliding latch bolt to hold the same in locked position, a sliding member guided in its movements by the lower wall of the casing and connected to the downwardly extended arm of the latch device, an angle arm extending upwardly from one end of the sliding member and adapted to be engaged by a key projection within the casing for shifting the sliding member to free the latch device from engagement with the sliding latch bolt and a knob spindle removed with the sliding latch bolt to retract the same to inoperative position.

1,375,288. COMBINED METALLIC AND CONCRETE FLOOR AND CEILING CONSTRUCTION. WILLIAM GOLDIE, Wilkinsburg, Pa. Filed Jan. 7, 1920. Serial No. 350,030. 6 Claims. (Cl. 72—70.)



1. In floor construction, the combination of recessed metal bars, spacer-sheets extending between the bars and fitting in said recesses, and expansible locking members fitting in the recesses of the said bars and holding said spacer-sheets in the said recesses.

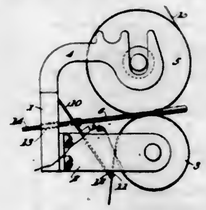
1,375,289. LEVER-LOCKING DEVICE. JOSEPH A. GRAHAM, Alleman, Iowa. Filed Apr. 21, 1920. Serial No. 375,441. 2 Claims. (Cl. 74—39.)



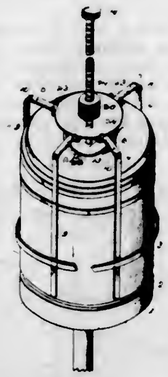
1. The combination, with a pivoted lever provided with a curved end portion, and automatic means for raising the said curved end portion, of a locking lever pivoted over the curved end portion of the first said lever in front of and below its pivot, said locking lever having a shoe at its lower end which is slidable on the said curved end portion and which is adapted to be pressed into frictional locking contact with it.

1,375,290. STOP-MOTION FOR TWISTER-FRAMES. EVERETT E. HEAFNER, Lincolnton, N. C. Filed July 24, 1920. Serial No. 398,608. 4 Claims. (Cl. 19—25.)

2. A stop motion for spinning machinery, comprising a frame adapted to be placed between upper and lower rolls about which the thread or yarn is passed, and a drop wire in contact with the thread or yarn to render the frame ineffective to stop the upper roll while the thread or yarn is running and having notches at its lower end to engage the broken end of a thread or yarn and thereupon to release the frame to permit the rolls to draw the frame in between them and thereby raise and stop the upper roll.

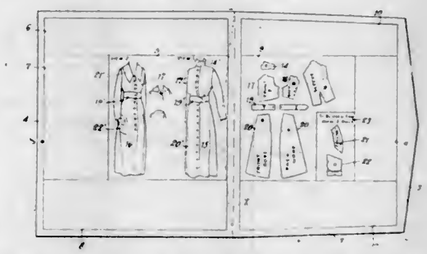


1,375,291. DEVICE FOR USE IN THE APPLICATION OF PISTON-RINGS TO PISTONS. JOE H. HUBBLE, Tekoa, Wash., assignor to Grant McCann and Robert L. Ragon, Tekoa, Wash. Filed Feb. 27, 1920. Serial No. 361,684. 11 Claims. (Cl. 29—86.4.)



1. A device for use in the application of piston rings to pistons comprising an assemblage of guiding members having parallel fingers to extend beside the circumferential surface of a piston to which the device is to be applied.

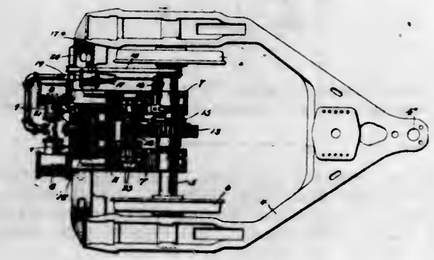
1,375,292. PATTERN-ENVELOP. FRANZ HUTTER, New York, N. Y., assignor to The McCall Company, a Corporation of New York. Filed Jan. 24, 1918. Serial No. 213,466. 1 Claim. (Cl. 283—1.)



A pattern envelop having thereon at least one illustration of a complete garment and a group of separate illustrations of the several component parts, the envelop including a flap, said illustration of the complete garment and said group of illustrations being delineated on different parts of the envelop and so arranged that when the flap is opened out all the illustrations will appear in sub-

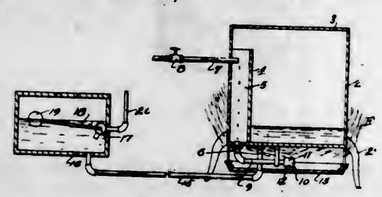
stantially one plane and the separate illustrations in said group will appear substantially in line with the locations in which they appear in the illustration of the completed garment.

1,375,293. BOOSTER-MOTOR FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, N. Y. Filed Oct. 2, 1917, Serial No. 194,335. Renewed Feb. 16, 1920. Serial No. 359,201. 27 Claims. (Cl. 105—115.)



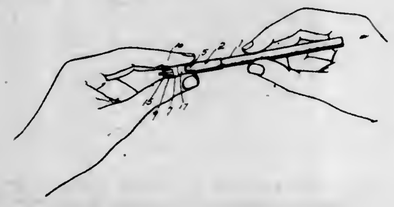
3. In combination with a locomotive having main driving wheels and steam operated means for driving the same, a trailer truck supporting a part of the weight of the locomotive, and a booster motor for aiding the main driving means or starting the locomotive and propelling the same at low speeds which is adapted to drive the wheels of the trailer truck.

1,375,294. OIL-BURNER. JAY JENKINS, Beaumont, Calif. Filed Feb. 5, 1920. Serial No. 356,470. 2 Claims. (Cl. 158—91.)



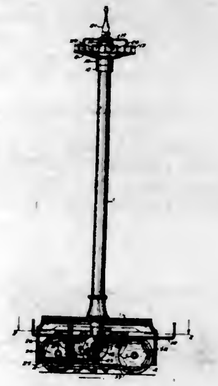
1. In an oil burning apparatus, a closed steam chamber having an oil compartment, means for supplying oil to the compartment, means for automatically supplying water to the chamber proper, and a retort connected to the oil compartment to receive oil and steam therefrom, the retort disposed under the steam chamber to generate steam from the water therein.

1,375,295. PENCIL-SHARPENER. SOREN JENSEN, Los Angeles, Calif. Filed Aug. 5, 1920. Serial No. 401,499. 4 Claims. (Cl. 120—93.)



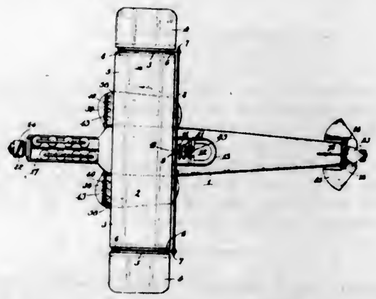
1. In a pencil sharpener, a tubular member having a tapered slotted forward end, a spring tongue projecting into the slot in said forward end, a plate positioned on the forward portion of said tubular member and retained in place by said spring tongue, an inclined finger projecting downwardly from said plate and positioned at one side of the slot in the tubular member and said finger being beveled on one side to form a cutting edge.

1,375,296. TRAVELING LAWN-SPRINKLER. ERIK JOHNSON, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,618. 2 Claims. (Cl. 299—49.)



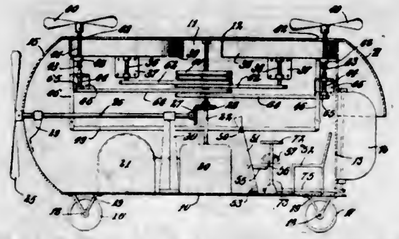
1. In a traveling lawn sprinkler, a wheeled casing, axles for said wheels journaled in said casing, a water pipe carried by said casing, a water wheel, having spaced inwardly converging blades, arranged upon said standpipe, a head carried by said standpipe and formed with two pairs of nozzles whereby water is directed from either pair upon said water wheel in either of two directions, the members of each pair of nozzles being disposed diametrically opposite each other, a rotary rod extending through said standpipe and water pipe, a tie bar connecting the blades of said water wheel and said rod, gearing connecting said rod and the wheel axles, a slide valve arranged in said standpipe for controlling the flow of water through one or the other of said pairs of nozzles, a shift rod carried by said casing for engagement and operation by an exterior object, and connection between said shift rod and slide valve.

1,375,297. AEROPLANE. FRANK J. JUREK, Buffalo, N. Y. Filed May 28, 1918. Serial No. 236,974. 7 Claims. (Cl. 244—20.)



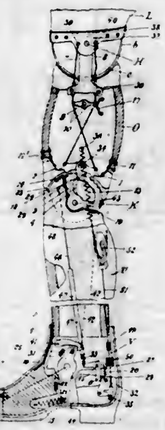
1. An aeroplane having oscillatory wings comprising two plate-like members in contact with each other and each having openings therein, and means for moving said members relatively for bringing said openings into or out of registration.

1,375,298. FLYING-MACHINE. MAX T. KION, Washington, D. C. Filed Mar. 23, 1920. Serial No. 368,009. 1 Claim. (Cl. 244—15.)



A flying machine comprising a body, a pair of segmental pockets formed in each side wall thereof one in front of the other, rotary helices rotating partially in said pockets, the said pockets having the adjacent sides of their arciform side walls extended beyond the sides of the said body.

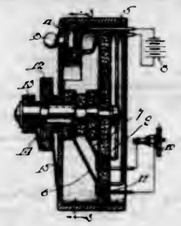
1,375,299. ARTIFICIAL LEG. JENS PETER KNUDSEN, Kædeby, Denmark. Filed May 11, 1920. Serial No. 380,491. 9 Claims. (Cl. 3—2.)



1. Artificial leg consisting of a rigid hip-bandage, an upper leg, means for hingedly securing said upper leg to said hip bandage, a lower leg, means for hingedly securing the lower leg to the upper leg, a foot and means for hingedly securing the foot to the lower leg, the hinge between the upper and the lower leg (the knee-hinge), being, at an upright position of the leg, somewhat in front of the vertical line through the hip-hinge and the foot-hinge, respectively.

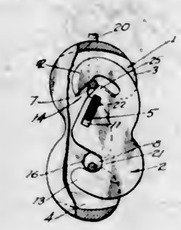
1,375,300. SLIDING SWITCH. LOUIS KOVACS, Chicago, Ill. Original application filed Jan. 21, 1918, Serial No. 212,930. Divided and this application filed June 21, 1919. Serial No. 305,845. 3 Claims. (Cl. 200—43.)

1. In an electric switch, a channel-sectioned member of insulating material, a pair of wire terminals mounted thereon and extending substantially flush with the bore of the channel at opposite sides thereof, a concealing plate continuously closing the mouth of the channel and longer than the latter and having a perforation, a cover over the concealing plate having a slot in alinement with the said perforation and the axis of the channel and having indicating markings thereon, a handle member extending through said slot and perforation into the channel, and a metal switching element carried by the handle member



and bridging the said wire terminals when the handle member is opposite a predetermined one of the indicating markings on the cover.

1,375,301. SAFETY COUPLING-HOOK. DAVID C. KUFFEL, Randsburg, Calif., assignor of one-half to H. D. Williams, Randsburg, Calif. Filed Feb. 3, 1921. Serial No. 442,113. 3 Claims. (Cl. 24—242.)

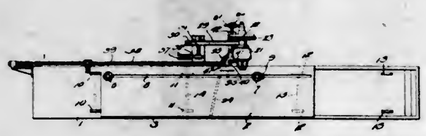


3. A safety coupling hook comprising a primary hook member and a secondary hook member slidably received in the same, each of said hook members having hooks at their respective ends, said hook members being assembled with the hooks at their ends extending in opposite directions and overlying one another to define openings extending through the coupling, rings in said openings, said hook members being swingable with relation to one another to close said openings by the respective overlying hooks, a tapering point upon the secondary hook member at the opening defined by the overlying hooks at one end of the device, the primary hook member having a slot therein and a bearing pin upon the secondary hook member received in said slot, a spring in said slot between the end of the same and said pin adapted to yieldably slide said hook members relative to one another to cause the tapering point to be impinged by the ring in the above mentioned opening for preventing relative rotation of said hook members from a position closing said openings, said point being disengaged from said ring when the members are reversely slid relative to one another against said spring so that the members may be reversely swung relative to one another so as to disengage the overlying hooks at the opposite end of the device for permitting of removal of the ring positioned in the opening defined by said hooks.

1,375,302. AUTOMATIC SPACING AND PUNCHING MACHINE. COLUMBUS K. LASSITER, Richmond, Va., assignor to Norman E. Woods, Paterson, N. J. Filed Apr. 7, 1920. Serial No. 371,977. 41 Claims. (Cl. 164—116.)

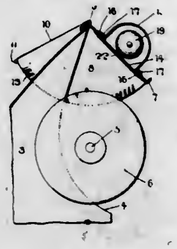
1. In a spacing and punching machine, a traveling work supporting table, a punch, a feed mechanism for advancing the table and returning it to starting position, a second feed mechanism intermittently operable for positively governing the advancing motion of the table to spaced punching positions and maintaining it in such positions

during punching periods against the driving action of the first named feed mechanism, and means for connecting said feed mechanisms with the driving element for a forward driving action of both of said feed mechanisms,



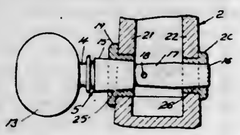
said means being operative to disconnect the first-named feed mechanism from the driving element and to connect the second-named feed mechanism to the driving element for a reverse drive action to return the table to starting position.

1,375,303. HOOD OF POLISHING AND BUFFING MACHINES. GUSTAVE A. LEIMAN, New York, N. Y. Filed Mar. 6, 1918. Serial No. 220,798. 4 Claims. (Cl. 51—268.)



4. The combination with a hood for polishing and buffing machines having a shield pivoted thereon and provided with yielding side walls arranged to frictionally engage said hood, said shield having an opening therethrough, of a lamp and holder slidably connected to the shield in position to cover said opening and direct light into the hood and a screen covering the opening for protecting the lamp.

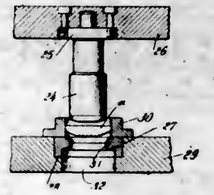
1,375,304. TUNING-PEG AND MOUNTING FOR MUSICAL INSTRUMENTS. GEORGE C. LINDSEY, Los Angeles, Calif. Filed May 16, 1919. Serial No. 297,632. 1 Claim. (Cl. 84—305.)



A peg for stringed instruments having two bearing portions tapering toward the outer end thereof, and a central winding portion between the two bearings tapering inwardly the entire length of said winding portion from the outer bearing to the inner bearing.

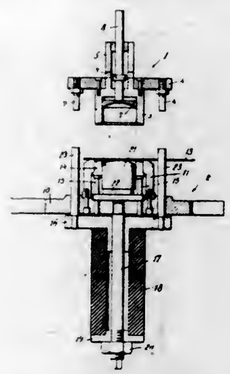
1,375,305. PROCESS AND APPARATUS FOR MAKING BATTERY-ELECTRODES. LORENZ MAISEL, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Oct. 11, 1918. Serial No. 257,691. 15 Claims. (Cl. 113—51.)

1. The herein-described method of making elongated seamless zinc battery cups of usual dimensions, which consists in subjecting a blank of sheet zinc to a preliminary shaping action while maintaining it under a uniform marginal pressure to convert it into a wide shallow cup, and thereafter subjecting said cup to a series of drawing



actions which are distinct from one another and during each of which the sides of the cup are slightly thinned, and the bottom thereof is left substantially unchanged as to thickness and diameter to gradually elongate the cup and simultaneously reduce its diameter.

1,375,306. BATTERY-ELECTRODE. LORENZ MAISEL, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Original application filed Oct. 11, 1918, Serial No. 257,691. Divided and this application filed Dec. 21, 1918. Serial No. 267,752. 3 Claims. (Cl. 204—38.)



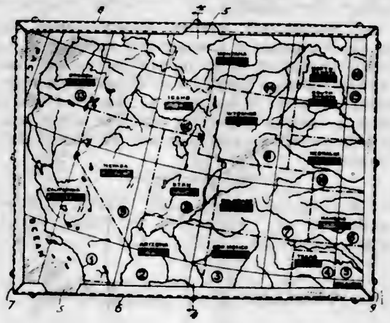
3. A dry battery electrode in the form of a seamless wrought zinc cup, the bottom of the cup being in substantially the same condition as when blanked and the sides of the cup being slightly thinner than when blanked, substantially as described.

1,375,307. TYPE FRACTIONS AND METHOD OF USE. CLARENCE C. MARDER, New York, N. Y., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 27, 1916. Serial No. 106,213. 4 Claims. (Cl. 101—398.)



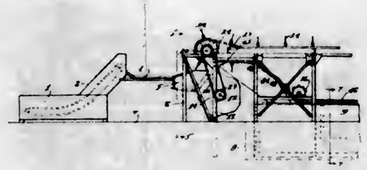
1. A font of type for setting up fractions in printing comprising en-set type each bearing a numerator and a denominator with a line separating the numerator and the denominator formed to the edge of the type whereby when two of the types are set together a continuous line is formed, substantially as set forth.

1,375,308. EDUCATIONAL APPLIANCE. JOHN A. MATHES, San Diego, Calif. Filed Apr. 21, 1919. Serial No. 291,666. 4 Claims. (Cl. 35—6.)



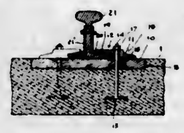
1. In an educational device, in combination: a single chart having appearing thereon the answers to possible questions; means for obscuring the answers only; means for manually indicating the answers while the answers are obscured.

1,375,309. ELECTROGALVANIZING-MACHINE. CONSTANTINE G. MILLER, Chicago, Ill., assignor to Meaker Galvanizing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 3, 1920. Serial No. 356,066. 27 Claims. (Cl. 204—5.)



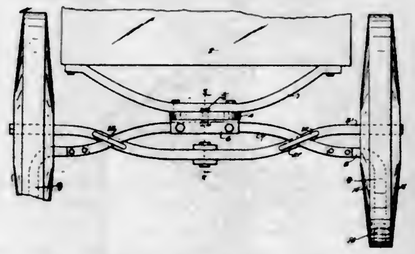
1. In a galvanizing machine the combination with a tank of electrolytic solution, stationary cathodes and anodes supported by said tank, an endless mechanism for carrying articles to be galvanized through the solution in said tank, means for automatically feeding articles to said mechanism, inclined bars disposed transversely in said tank adapted to intermittently elevate the articles to permit the hold on said articles to be changed, and means for automatically unloading the articles from said mechanism after the articles have been galvanized.

1,375,310. RAIL-CLAMP. WILLIAM F. MORRISON, Vallejo, Calif. Filed Jan. 3, 1921. Serial No. 434,439. 2 Claims. (Cl. 238—91.)



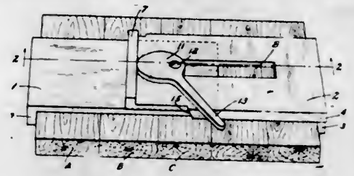
1. In combination with a rail tie, a rail and a fish plate a part of which extends over the base of the rail and is notched at its outer edge, of a rail supporting plate on the tie provided with a recess in its upper side, a rail clamping member engaging in the notch in said fish plate, a lug on the under side and between the ends of said member being engaged in said recess, a bolt extending through the plate, the lug and said member, and a nut threaded on the upper end of said bolt, said lug having engagement with the adjacent outer edge of the base of the rail.

1,375,311. RUNNING-GEAR FOR VEHICLES. RICHARD D. MORTON, Compton, Calif. Filed Dec. 23, 1919. Serial No. 346,961. 2 Claims. (Cl. 305—7.)



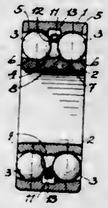
1. In a draft gear for wheeled vehicles, a circular wheel having an annular rim member and side plates attached thereto forming a substantially closed chamber with an axle opening at one side; an axle bearing concentrically mounted in the wheel; and an eccentric axle passing through the axle opening and having a downwardly turned arm with antifriction means rolling upon the lowermost portion of the said rim.

1,375,312. CLAMP. JOHN NICOL, Los Angeles, Calif. Filed Aug. 5, 1920. Serial No. 401,509. 1 Claim. (Cl. 144—299.)



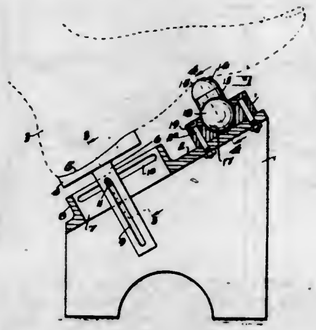
A clamp including engaging members, one of said members having grooved edges arranged to engage the edges of the other member for sliding movement of said members relative to one another, actuating means carried by one of said members for drawing said members toward one another, the member having grooved edges having one of said grooved edges partially cut away to permit of assembly of the parts.

1,375,313. BALL OR ROLLER BEARING. JOHAN ABRAHAM OHLSSON, Stockholm, Sweden. Filed June 26, 1917. Serial No. 177,026. 4 Claims. (Cl. 64—57.)



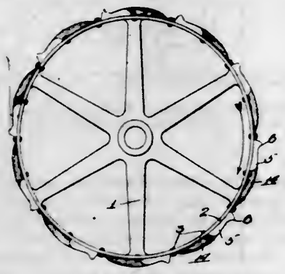
4. In a bearing, the combination of a plurality of rows of supporting bodies of rotation, a solid outer ring, a solid inner ring, separated grooves provided for the said rows in one of the said rings, guide bodies of rotation located between the rows of supporting bodies and separating the bodies of each row from one another, a radially disposed opening in one of said solid rings for the insertion and removal of the supporting and guide bodies, a plug for closing said opening, and a guide member for the guide bodies, said member being interposed loosely between the solid outer and inner rings and between the rows of supporting bodies.

1,375,314. DEVICE FOR MANIPULATING THE BONES OF THE FEET. TYLER P. OVERTON, Los Angeles, Calif. Filed Apr. 20, 1920. Serial No. 375,354. 6 Claims. (Cl. 128—69.)



1. A device of the character described comprising a base, a heel support adjustably arranged on said base, and a yieldable member arranged on said base and provided with a convex upper surface that is adapted to engage the instep of a foot.

1,375,315. TRACTOR TREAD-SHOE. JAMES D. PARK, Duluth, Minn. Filed Dec. 16, 1918. Serial No. 266,953. 7 Claims. (Cl. 301—41.)



1. A tractor wheel tread shoe comprising a body portion, centrifugally and medially inclined side walls on the body portion, a centrifugally and forwardly inclined heel piece extending across one end of the body portion and connecting the side walls, and rounded cheeks integral with the side walls and heel piece and forming pockets with the body portion wherein the surface engaged by the wheel is entrapped and packed.

1,375,316. ADJUSTABLE DRESS-FORM. ANTHONY PECORARO, New York, N. Y. Filed Sept. 25, 1918. Serial No. 255,594. 7 Claims. (Cl. 223—18.)



1. An adjustable dress form comprising a plurality of body sections, a base-piece therefor, a resilient clamp for the neck sections having an extended boss providing a socket, and a standard extending through the base section and engaging the socket of the resilient clamp.

1,375,317. PROCESS FOR FORMING SECONDARY-BATTERY PLATES. JOHN M. PETERSON, Dawson, Minn. Filed Sept. 18, 1918. Serial No. 254,614. 4 Claims. (Cl. 204—29.)

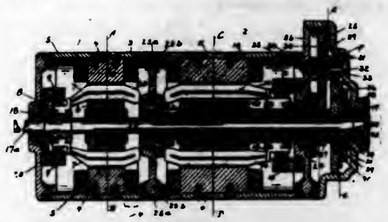
1. The process for forming Planté storage battery plates which consists in mechanically applying to a plate of metal capable of being formed into active material and having sufficient heaviness to maintain its shape and to supply a reserve of metal to be converted into active material, a coating embodying sufficient active material to initially provide for and maintain the desired electrical cell capacity.

1,375,318. BEAD-MAKING TOOL. FRANK W. PFEIFFER, Peekskill, N. Y. Filed May 25, 1920. Serial No. 384,194. 3 Claims. (Cl. 40—15.)



1. A tool for utilizing waste wire in bead making comprising a handle, a spindle in the handle, one end of the spindle forming a coupling for a flexible shaft connection, the other end of the spindle formed into a spring chuck.

1,375,319. ELECTRIC-MOTOR GENERATOR FOR STARTING AND LIGHTING GASOLENE-AUTOMOBILES. FRANK B. RAE, Cleveland, Ohio. Filed June 7, 1915. Serial No. 32,771. 2 Claims. (Cl. 171—252.)

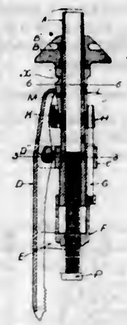


1. An electric motor generator for starting and lighting gasolene automobiles consisting of a motor unit and a generator unit arranged end to end, having a common shaft on which the generator armature is mounted, and a hollow shaft surrounding the common shaft, the hollow shaft carrying and being driven by the motor armature, the common shaft being provided at one end with means for making a driving connection from it to the gasolene engine shaft and at the other end carrying an overrunning clutch, and reduction gearing between the hollow shaft and the overrunning clutch, said clutch being adapted to transmit motion from the hollow shaft to the common shaft in one direction only.

2. In an electric motor generator, a motor unit and a generator unit having casings arranged end to end, a common shaft extending through both casings, bearings for the common shaft, end housings for the bearings for the common shaft supported by the casings, a hollow shaft surrounding the common shaft within the motor unit, bearings for the hollow shaft intermediate the bearings for the common shaft, housings for the bearings for the hollow shaft supported by the casings, an armature for the generator unit mounted upon the common shaft, an armature for the motor unit mounted upon the hollow shaft, reduction gearing between the hollow shaft and the common shaft and an overrunning clutch between the common shaft and the reduction gearing.

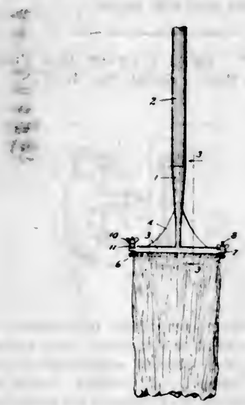
1,375,320. GRAPPLE FOR OIL-WELLS AND THE LIKE. CLARENCE E. REED, Houston, Tex. Filed July 21, 1919. Serial No. 312,300. 14 Claims. (Cl. 294—110.)

1. A grapple for oil wells comprising a main body, a plurality of gripper jaws pivotally connected thereto intermediate of their length at different points about the same, said jaws being in cross section of curved segmental form to provide a split tube-like body to conform to the bore of the well, a finder arranged coaxially with the segmental jaws, spreader means slidable on the main body



and coaxially arranged with and between the upper ends of the jaws, an operating connection between the finder and the spreader means, said main body at its upper end having means for attachment to a suspending member, substantially as described.

1,375,321. MOP-HOLDER. FRED ROUNDS, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 415,968. 3 Claims. (Cl. 15—54.)



1. A mop holder comprising a bar having a rod pivoted to one end thereof with the swinging end of said rod provided with means for connecting the same to the other end of said bar to form a clamp, and means for yieldably drawing the pivoted end of said rod to said bar.

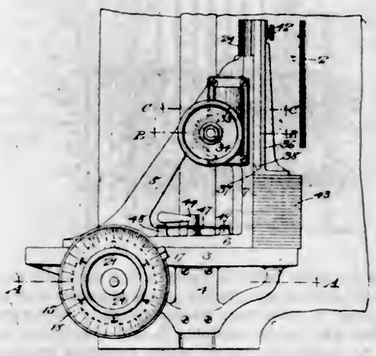
1,375,322. MAGAZINE FOR HAND-FIREARMS. WALDO E. ROSEBUSH, Spokane, Wash. Filed June 25, 1920. Serial No. 391,581. 3 Claims. (Cl. 42—50.)

3. A magazine for firearms, comprising a casing provided at the upper ends of the sides with upper and lower spring tongues and a main supporting portion, and of which the upper tongue forms part of the main portion and is adapted to be engaged by the uppermost cartridge and pressed outward by the same on the cartridge leaving the magazine and forms part of the corresponding lower tongue which latter receives an increased tension by the outward movement of the upper tongue to bear firmly



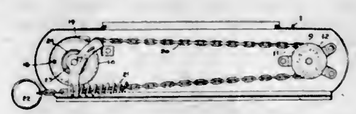
against the sides of the next following cartridge to hold the latter against displacing the uppermost cartridge.

1,375,323. DIMENSIONING-GAGE FOR LINOTYPE-SLUG CUTTERS. VERNON ROYLE, Paterson, N. J. Filed Apr. 8, 1915. Serial No. 19,996. 3 Claims. (Cl. 29—67.)



1. In a gage, the combination with a supporting frame and a knee frame arranged to slide along the supporting frame, of a screw for locking the frames in the desired adjustment and a spring arranged to coact with the screw to hold the frames in contact when the screw is loosened.

1,375,324. ROLL-FILM-TURNING DEVICE. KOTARO SAYO, San Francisco, Calif. Filed July 1, 1920. Serial No. 393,379. 4 Claims. (Cl. 95—31.)

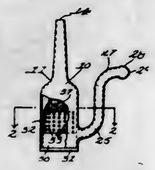


1. A camera having a film winding roll, a wheel operatively associated with said winding roll, and a flexible element rove around said wheel and which when pulled rotates the roll so as to wind the film thereon, said flexible element having one end free from connection with and disposed in the position to be grasped exteriorly of the camera.

1,375,325. INHALER. WILLIAM HENRY SCHAEFER, New York, N. Y. Filed June 29, 1920. Serial No. 392,762. 3 Claims. (Cl. 128—199.)

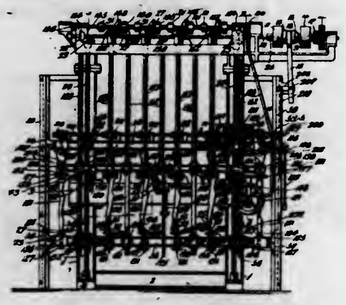
1. An inhaler comprising a cylindrical body, a pair of conical tubes formed integrally therewith, a hollow mouthpiece integral with said body, a flanged cap at the lower

open end of said body, and a perforated and slitted sheet, said perforate sheet being rolled up into a tube with its



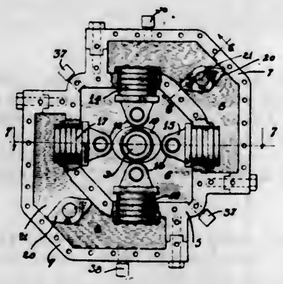
slitted end overlapping the other end, the tube being carried by the cap and adapted to receive cellular material impregnated with a medicament.

1,375,326. COPYING-LATHE. CHARLES L. SCHWARZ, Philadelphia, Pa. Filed Nov. 6, 1916. Serial No. 129,738. 6 Claims. (Cl. 142—13.)



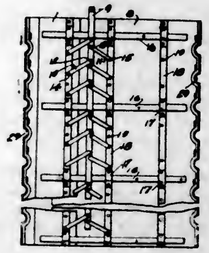
1. In a copying lathe, a frame having vertically directed stationary guides, an article carriage engaging said guides and having a cross bar, sleeves laterally adjustable on said cross bar, shafts rotatable in said sleeves and having means to engage an article blank, centering devices vertically and laterally adjustable on said carriage and engaging the article blanks, a master pattern on said carriage, means to rotate said shafts and said master pattern, means to reciprocate said carriage in a rectilinear path in a vertical plane, said shafts rotating in a reverse direction when the direction of movement of the carriage is reversed, and devices controlled by said master pattern to shape the article blanks to conform to said master pattern, said shaping devices including a cutting frame swingingly supported at its upper end, and yielding means to move the lower end of said cutting frame toward said carriage.

1,375,327. VARIABLE-SPEED POWER-TRANSMISSION DEVICE. ALFRED SHACKLETON, Chicago, Ill. Filed Apr. 20, 1917. Serial No. 163,340. 2 Claims. (Cl. 192—60.)



1. A fluid transmission comprising a casing, a plurality of fluid compartments therein, a plurality of pistons each provided with a roller at the inner end thereof and alternately reciprocative adapted to be projected into each of said compartments to alternately effect transfer of fluid from one end to the other in said respective compartments, means in each of said compartments between the pistons thereof controlling the transfer of fluid therethrough to vary the resistive pressure effect of the inward movement of a piston, and a driving cam cooperating with the rollers on the pistons and shaped to effect alternate reciprocative movements of the pistons in each of said compartments.

1,375,328. COLLAPSIBLE CONCRETE-FORM. JAMES CHARLES SHEELEY, Pasadena, Calif. Filed Apr. 7, 1920. Serial No. 372,035. 6 Claims. (Cl. 25—128.)



1. In a collapsible form for concrete construction, sidewalls, toggle means for longitudinally expanding and contracting said side walls, and toggle means for adjusting the distance between said side walls.

1,375,329. CLASP. EMMA I. SHOFF, East Prospect, Pa. Filed Nov. 29, 1920. Serial No. 427,178. 1 Claim. (Cl. 24—225.)

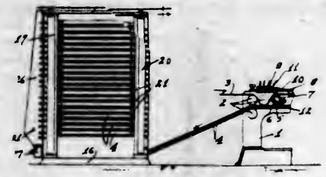


A clasp or fastener comprising independent members, a head carried by one of said members, said head having a constricted shank, the other of said members comprising a substantially U shaped body portion, means carried by said U shaped portion to facilitate its attachment to a support, a spring secured intermediate its ends to the intermediate portion of said U shaped portion, said spring having its ends bent transversely across said U shaped portion and curved toward the point of connection of the legs of said U shaped portion, and said head being adapted to enter said U shaped portion by passing said constricted shank between the curved ends of said spring substantially as described.

1,375,330. MANUFACTURE OF METALLIC SODIUM. ALBERT W. SMITH and WILLIAM R. VEAZEY, Cleveland, Ohio. Filed July 16, 1917. Serial No. 180,742. 9 Claims. (Cl. 204—21.)

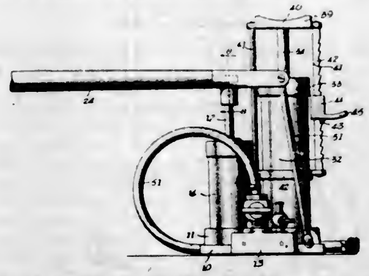
1. The method of making metallic sodium, which consists in electrolyzing sodium carbonate in a fused mixture of such salt and another salt, the ingredients being proportioned so that such mixture has a lower melting point than any of its constituents.

1,375,331. MUSIC-ROLL-STENCILING MACHINE. HAROLD J. SMITH, Chicago, Ill., assignor of one-half to Henry F. Baker, Chicago, Ill. Filed Feb. 19, 1920. Serial No. 360,021. 14 Claims. (Cl. 101—121.)



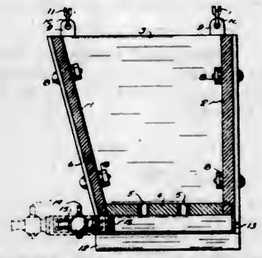
1. The combination with a stenciling machine, of a perforating machine, and means on said perforating machine for controlling the perforating and stenciling of music roll ribbons run through said machines.

1,375,332. PNEUMATIC JACK AND PUMP. CLYDE STEPHENS, Rosendale, Mo. Filed Apr. 17, 1920. Serial No. 374,608. 5 Claims. (Cl. 138—9.)



4. In a device of the character described, a pneumatic jack having a cylinder, a piston mounted in said jack cylinder, a piston rod connected to said piston, a cross head mounted on said piston rod, depending bars carried by said cross head, and a guide collar carried by the lower ends of said bars and slidable on the periphery of said jack cylinder.

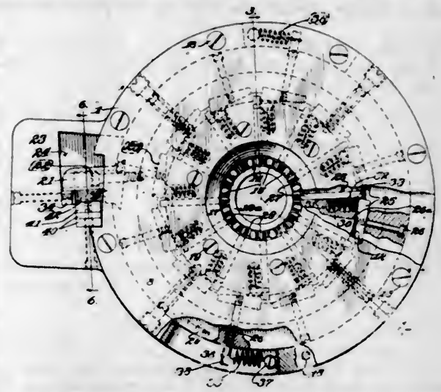
1,375,333. FLOWER-BOX. JOSEPH STRAUB, Rossville, Ga. Filed Oct. 9, 1919. Serial No. 329,422. 1 Claim. (Cl. 47—19.)



In a flower box, a body portion including body walls and a perforated bottom, cleats connecting said body walls and depending below said end walls to form feet, ears for said cleats, a pan removably disposed beneath said bottom upon said cleat terminations, a discharge faucet for said pan, and a perforated shield for said pan adjacent said faucet.

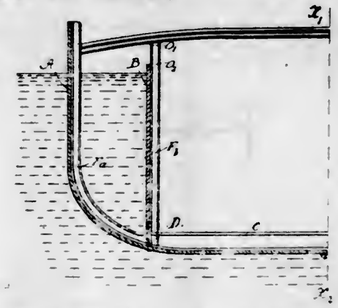
1,375,334. MACHINE FOR CLOSING CAGES OF ROLLER-BEARINGS. ERNEST G. STRONG and EARL C. ROHN, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 19, 1920. Serial No. 367,050. 9 Claims. (Cl. 153—48.)

1. In a machine for closing in conical roller bearing cages, a press having a plurality of radially disposed horizontal plungers, angularly spaced to conform to the spacing of the bridges of a cage and having their inner



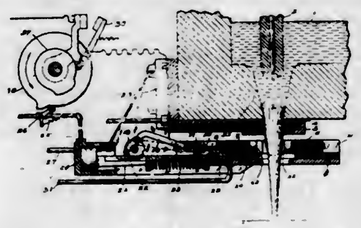
ends beveled to conform to the taper of such cage, cam means for simultaneously moving said plungers, and an operating member arranged to actuate said cam means.

1,375,335. HYDRAULIC SHIP'S ARMOR. PIETER JACOBUS VAN POELVOORDE, Weltevreden, Batavia, Dutch East Indies. Filed Nov. 14, 1919. Serial No. 338,061. 1 Claim. (Cl. 114—240.)



A ship having outer and inner walls of which the outer wall is the usual wall of the vessel and the inner wall extends from the bottom of the ship in spaced apart relation to the outer wall and with its upper edge open, whereby to form with the outer wall an upwardly opening chamber for the reception of a water mass.

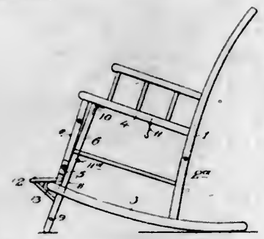
1,375,336. GLASS-WORKING MACHINE. FRANK L. O. WADSWORTH, Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind., a Corporation of Indiana. Filed June 27, 1918. Serial No. 242,266. 3 Claims. (Cl. 49—5.)



3. An apparatus for cutting streams of viscous materials comprising a pair of cup-shaped mating members

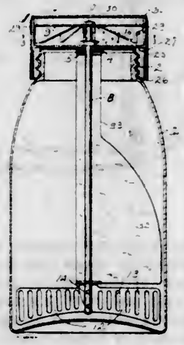
one having a cutting edge capable of entering the stream and the other having a projecting cutter capable of entering the stream overlappable upon the first-mentioned cup.

1,375,337. CHAIR. RUDOLPH WAGNER, Jersey City, N. J. Filed Jan. 19, 1920. Serial No. 352,375. 2 Claims. (Cl. 155—73.)



1. A chair having rockers to rock upon the floor and having a round above the rockers extending between the front side legs, a brace pivotally supported beneath the seat above the rockers and of sufficient length to extend below the rockers adapted to swing between the side legs of the chair and to extend in an upward direction against said round to retain the chair in a tilted position with the rockers upon the floor, and means upon the chair to cooperate with the brace to retain the latter above the rockers below the seat.

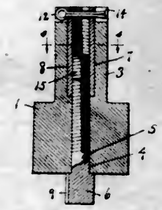
1,375,338. BEATER. OTTO P. WERNER and THEODORE W. ARNTZ, Milwaukee, Wis. Filed Aug. 11, 1920. Serial No. 402,933. 2 Claims. (Cl. 259—122.)



1. A beater comprising a cap having a fitting for operatively attaching said cap to a faucet, a jar adapted to be closed by said cap, a water motor carried by said cap and having a driving shaft extending into said jar, a whipper carried by said shaft adjacent the lower portion of said jar, and a baffle carried by said cap and extending from adjacent the upper side of said whipper a material distance upwardly toward the top of said jar and presenting a wide surface to allow the whipped material to build upwardly into the upper portion of said jar while preventing rotation of said whipped material, said motor being so positioned as to discharge waste water over the outer surface of said jar to maintain both the material being operated upon and the lighter, superposed, whipped material in a continuously cool state.

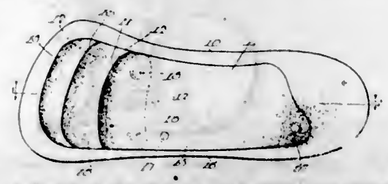
1,375,339. LOCK FOR CUTTING TOOL-PILOTS. FREDERICK WIARD, Detroit, Mich., assignor to American Standard Tool Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 23, 1919. Serial No. 319,323. 2 Claims. (Cl. 77—58.)

1. A tool of the character described comprising a body having cutting teeth formed thereon and a shank, said tool having a central hole extending its entire length and of two different diameters, that portion of the hole in the shank being greater than that in the body, a pilot and a threaded stem therefor extending through the smaller portion of the hole in the tool and into the larger portion,



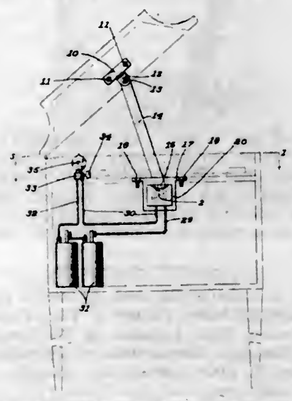
a tubular nut in the larger portion of the hole screwed onto said threaded stem of the pilot, a jam screw within said nut in contact with the end of said stem, and means to prevent the nut from turning in the shank of said tool said jam screw being removable independently of the pilot.

1,375,340. PLANTAR-ARCH AND METATARSAL FOOT-SUPPORT. LEE W. V. WILMS, Chicago, Ill. Filed June 30, 1919. Serial No. 307,702. 5 Claims. (Cl. 36—71.)



1. A device of the character described, consisting of an elongated supporting member adapted to fit and be worn within a shoe, a plantar muscle supporting plate secured near its front and rear ends to said member near its inner edge, said plate being of sufficient length to extend forwardly from the anterior portion of the heel to a point located about one inch under the long or metatarsal bones of the foot, said plate having its rear portion downwardly and transversely arched, and an upwardly curved section transversely mounted on said member above and extended forwardly of the front portion of said plate.

1,375,341. AUTOMATIC LIGHTING DEVICE FOR TALKING-MACHINES. EDWARD K. WIZNER, Milwaukee, Wis. Filed Aug. 2, 1919. Serial No. 314,957. 1 Claim. (Cl. 240—2.)



In an automatic lighting device, the combination with a talking machine cabinet, and a cover hingedly engaged

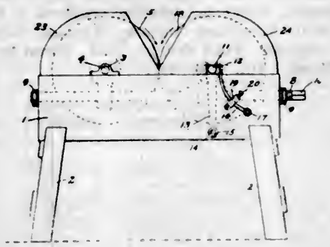
therewith, of a source of electrical energy disposed within said cabinet, a slotted bracket secured upon one side of the cabinet, a block removably engaged in said slotted bracket, said block having a concave recess in its upper edge, a pair of electrical contacts engaged in said block entering into said recess, an electric lamp, connections between said lamp and one of said contacts, other connections between the opposite contact and said battery, an arm pivotally engaged with the cover of said cabinet, and a contact carried at the lower end of said arm, said contact being adapted to rest in said recess upon said contacts when said cover is in a raised position.

1,375,342. CUTTING-TOOL. JAMES M. YATER, Nowata, Okla. Filed Apr. 5, 1920. Serial No. 371,564. 6 Claims. (Cl. 77—72.)



1. A tool of the class described comprising an elongated member, outstanding pins carried by the member, said pins comprising a series of pairs with the pins of one pair spaced longitudinally of the member, a block coacting with each pair of pins and provided with openings into which said pins extend, expanding members engaged with the elongated member adjacent the opposite ends of the blocks, said expanding members forcing the blocks outwardly upon movement inwardly of the elongated member, and cutting blades carried by each of the blocks.

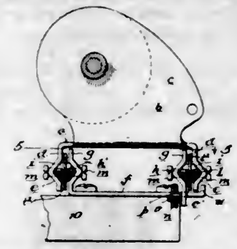
1,375,343. GRINDSTONE. SHERMAN R. ADAMS and LLOYD C. ADAMS, Long Beach, Calif. Filed Mar. 30, 1920. Serial No. 369,893. 1 Claim. (Cl. 51—168.)



A grind stone including a frame, a grinder wheel journaled in said frame, a pair of arms fulcrumed in said frame, a shaft journaled in the upper ends of said arms, a second grinder wheel secured on said shaft for engaging said first grinder wheel, springs engaging said arms for maintaining said second grinder wheel in engagement with said first grinder wheel, means for driving said grinder wheels for sharpening a tool therebetween, and means for varying the tension of said springs.

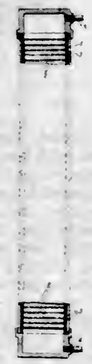
1,375,344. TYPEWRITING-MACHINE. FRANK H. ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Oct. 16, 1917. Serial No. 196,867. Renewed Sept. 24, 1919. Serial No. 325,962. 28 Claims. (Cl. 197—69.)

1. In combination, a platen carriage and a support therefor, the carriage and the support being provided with coöperating raceway flanges, one of the flanges being movable and means being provided for normally pressing it toward its companion flange, said movable flange being



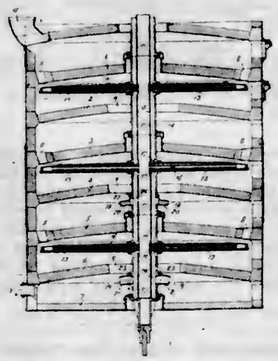
composed of independently-movable sections, for the purpose set forth.

1,375,345. METHOD OF PRODUCING CATALYZERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 15, 1918. Serial No. 240,223. 13 Claims. (Cl. 23—28.)



1. The process which comprises producing catalyst by treating a copper body to form a copper salt thereon and then depositing finely divided reduced copper from said salt upon the same.

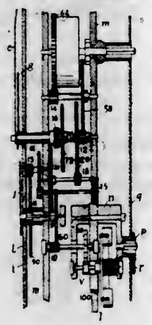
1,375,346. METALLURGICAL FURNACE. DUDLEY BAIRD, Berkeley, Calif., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed June 17, 1920. Serial No. 389,702. 5 Claims. (Cl. 263—26.)



1. In a metallurgical furnace the combination with a plurality of hearths and means for causing a stream of

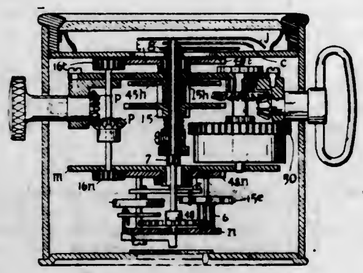
material to fall from one hearth to another, of an air conduit whose exit end is so positioned that, when the furnace is in operation, said end is immediately behind said stream, thus being adapted to direct a blast of air into contact with the falling material.

1,375,347. HAND-SETTING MECHANISM FOR TIMEPIECES. SAMUEL W. BALCH, Montclair, N. J. Filed June 5, 1920. Serial No. 386,874. 6 Claims. (Cl. 58—7.)



1. In a timepiece, hands therefor, controlling means therefor, a main frame with bearings for the hand arbors, a connecting gear train, an auxiliary frame by which the controlling means is carried and which is circularly adjustable about the axis of one of the arbors of the connecting gear train for setting the timepiece, a setting indicator and connecting means between the auxiliary frame and the setting indicator by which the setting of any portion of a minute is indicated.

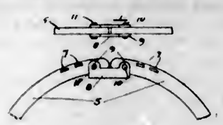
1,375,348. HAND-SETTING MECHANISM FOR TIMEPIECES. SAMUEL W. BALCH, Montclair, N. J. Filed Sept. 23, 1920. Serial No. 412,281. 3 Claims. (Cl. 58—7.)



1. In a timepiece, hands therefor, controlling means therefor, a main frame with bearings for the hand arbors, a connecting gear train, an auxiliary frame by which the controlling means is carried and which is circularly adjustable about the axis of the second hand arbor for setting the timepiece, a setting indicator, and connecting means between the auxiliary frame and the setting indicator by which the setting of any portion of a minute is indicated.

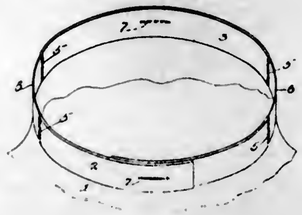
1,375,349. ARMORED TREAD FOR TIRES. ARTHUR L. BENNER, Elgin, Ill. Filed July 7, 1919. Serial No. 308,999. 2 Claims. (Cl. 152—16.)

2. In a means for holding tire armor onto a wheel, a pair of rings, one of said rings being composed of two parts hinged together and a trough shaped link pivoted to one of said members near the unhinged end thereof with the floor of the trough toward the inside of the ring,



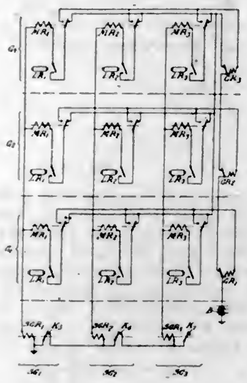
lugs on the walls of said trough embracing the other part of said ring and a bolt extending through said lugs and said last named part.

1,375,350. NECKBAND FOR SHIRTS. ALEX BERNSTEIN, Chicago, Ill. Filed Feb. 3, 1919. Serial No. 274,779. 2 Claims. (Cl. 2—41.)



1. A neck band comprising an outside surface ply, an inside surface ply and reinforcing material between said plies, the reinforcing material being in several pieces, the total length of which is less than the length of the neck band and means for fastening these pieces in place, whereby separated portions of the neck band are left without reinforcement.

1,375,351. CALL-DISTRIBUTING ARRANGEMENT FOR TELEPHONE PLANTS. GOTTHILF ANSGARIUS BETULANDER, Södertörns Villastad, and NILS GUNNAR PALMGREN, Stockholm, Sweden, assignors to The Relay Automatic Telephone Company, Limited, Strand, London, England. Filed Nov. 23, 1920. Serial No. 426,044. 8 Claims. (Cl. 179—18.)



1. In means for effecting the successive connection of simultaneously calling telephone lines, the combination of a number of lines, a number of relays adapted to mark corresponding lines as calling, the lines and relays being divided into a plurality of groups, a group relay allotted to each group and adapted to operate upon a call occurring in its group, and means adapted upon such group relay operating to prevent more than one of the marking relays from remaining operated.

1,375,352. PAINT VEHICLE. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed June 12, 1917. Serial No. 174,253. 3 Claims. (Cl. 134—56.)

1. A mixture of a hydrogenated oil; tung oil; and marine animal oil.

1,375,353. PAINT COMPOSITION. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed June 12, 1917. Serial No. 174,254. 11 Claims. (Cl. 134—39.)

1. As a new composition of matter, a mixture of a soft and flowing hydrogenated oil, and an anhydrous pigment, the mixture being devoid of water, free or combined.

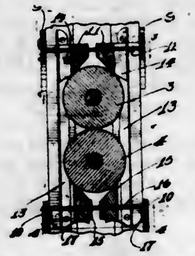
1,375,354. PAINT VEHICLE FOR ANHYDROUS PIGMENTS. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed June 12, 1917. Serial No. 174,257. 8 Claims. (Cl. 134—56.)

1. A paint-vehicle comprising marine animal oil and tung oil, in their untreated commercial condition.

1,375,355. PAINT COMPOSITION. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed June 12, 1917. Serial No. 174,258. 8 Claims. (Cl. 134—39.)

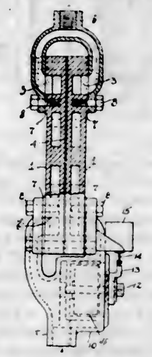
1. A paint-composition comprising marine animal oil and tung oil, in their untreated commercial condition; and an anhydrous pigment.

1,375,356. STRIPPING MECHANISM FOR WRINGER-ROLLS. THOMAS J. BONNIWELL, Chicago, Ill. Filed Oct. 2, 1919. Serial No. 327,977. 3 Claims. (Cl. 68—32.)



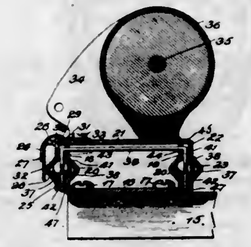
1. In a wringer, the combination with the rolls thereof, of stripper bars contacting with the rolls, and means for securing said bars in place, comprising a transverse rod at each end, extending transversely through said bars, to non pivotally secure said bars within the wringer frame.

1,375,357. ELECTRIC WATER-HEATER. CYRUS M. BOSWORTH, Lakewood, and ALOYSIUS G. BOESEL, Cleveland Heights, Ohio. Filed Feb. 7, 1920. Serial No. 356,896. 8 Claims. (Cl. 219—39.)



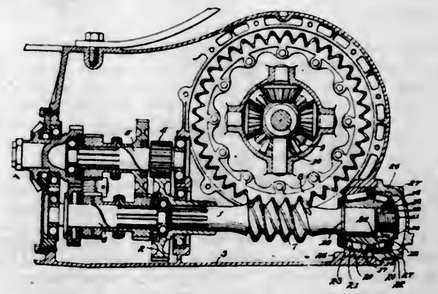
1. A unit for an electric water heater comprising a flat hollow body provided with water inlet and outlet openings, and a heating electric resistance element applied to one face of said body, such openings nowhere intersecting such face.

1,375,358. TYPEWRITING-MACHINE. LEWIS B. BALDGES, Brooklyn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Dec. 22, 1917. Serial No. 208,403. Renewed Sept. 21, 1920. Serial No. 411,813. 30 Claims. (Cl. 197—69.)



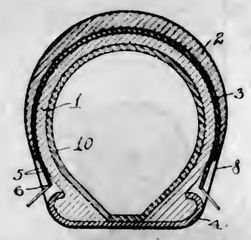
1. A platen-supporting structure for a typewriting machine comprising a traveling platen-carrying member provided with a pair of raceway rails, a bed member provided with a pair of raceway rails coöperating with the rails on the traveling member to form raceways, the rails on one of said members being rigid and immovable relatively to the member and both having their edges extending into close proximity to the adjacent face of the other member and adapted to engage the same to prevent movement of the members toward each other, and antifriction rolling elements in the raceways.

1,375,359. THRUST-BEARING. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 21, 1920. Serial No. 352,938. 16 Claims. (Cl. 64—50.)



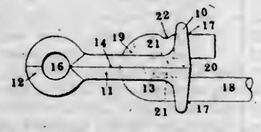
16. In gearing, a driving shaft, an inner bearing member sleeved on one end of said shaft and having reversely coned bearing surfaces, said driving shaft having an annular shoulder near one end against which the inner end of said inner bearing member abuts and having a reduced end portion adjacent to the outer end of said inner bearing member, a member adjustably mounted on the reduced end of said driving shaft, said member having a portion adapted to engage the outer end of the inner bearing member for clamping the same against the annular shoulder of said driving shaft, series of rollers for the reversely coned surfaces of said inner bearing member, outer bearing members for said rollers and means for maintaining said outer bearing members at a predetermined distance apart.

1,375,360. APPARATUS FOR VULCANIZING RUBBER. WILBUR B. BURKE, Cleveland, Ohio, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Feb. 16, 1916, Serial No. 78,572. Divided and this application filed Jan. 10, 1917. Serial No. 141,570. 6 Claims. (Cl. 219—19.)



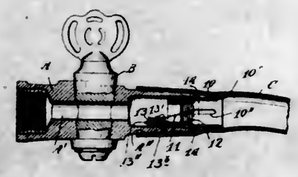
1. As an article of manufacture, a vulcanizing element, consisting of a layer of unvulcanized rubber and an electric heating element held in direct contact therewith.

1,375,361. BRAKE-ROD JAW. STERLING H. CAMPBELL, St. Louis, Mo. Filed Oct. 15, 1919. Serial No. 330,944. 4 Claims. (Cl. 287—20.5.)



1. A brake rod jaw having a pair of arms, a rod seat arranged between said arms, a rod base provided with a pair of openings each completely surrounding one branch of a looped rod and a retaining recess between said base and seat into which the rod is adapted to be bent to prevent retrograde movement of the rod relative to the jaw.

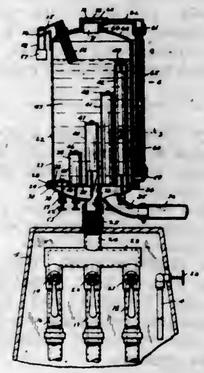
1,375,362. AUTOMATIC VALVE FOR GAS-COCKS AND THE LIKE. JOHN J. CAREY, Brooklyn, N. Y. Filed Feb. 17, 1920. Serial No. 359,405. 10 Claims. (Cl. 284—18.)



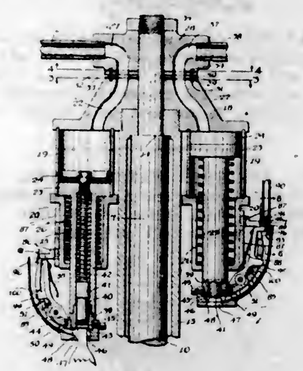
1. In a device for controlling the flow of fluids, a casing having a passage for the fluid, a tube secured to said casing within said passage and projecting therefrom at one end, a valve carrier movable lengthwise of said tube, a valve connected with said carrier and adapted to close the passage through the tube, a spring tending to move the carrier so as to seat the valve, and a member movable longitudinally on the outside of the exposed portion of the tube so as to be engaged by a hose applied on the tube, said member being adapted to move the valve carrier to the valve-opening position.

1,375,363. LIQUID-DISPENSING DEVICE. FREDERICK S. CARY and GEORGE E. RUSSELL, Wilmington, Calif. Filed Aug. 18, 1919. Serial No. 318,407. 1 Claim. (Cl. 221—100.)

In a liquid dispensing device, a hollow supporting member, a plurality of supply pipes extending upwardly therethrough, valves arranged in said supply pipes, a tank arranged above said support, said tank having a secondary bottom to form a separate discharge chamber at the lower end of the tank, a tubular member connecting the upper ends of the supply pipes with the chamber in the upper portion of the tank, the discharge chamber at the lower end of the tank being provided with an outlet opening, a plurality of discharge tubes seated in the bottom of the tank and extending upwardly therefrom, the lower ends of which tubes communicate with the discharge chamber at the bottom of the tank, valve stems passing upwardly through the bottom of the tank and through said tubes, valves carried by the upper ends of said stems and normally closing the upper ends of said tubes, and handles on the lower ends of said stems.

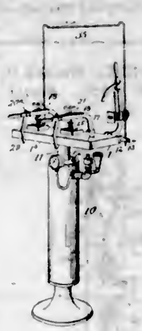


1,375,364. RECEPTACLE CAP OR CLOSURE APPLYING APPARATUS. ROBERT G. CLARK, Brooklyn, N. Y., assignor to Aaron Johnson, Brooklyn, N. Y. Filed Jan. 29, 1918. Serial No. 214,298. 21 Claims. (Cl. 226—84.)



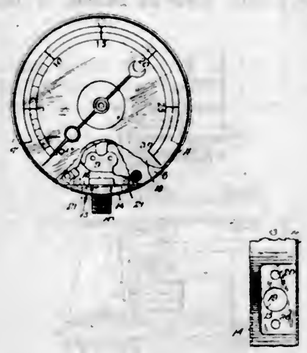
1. In receptacle capping apparatus, the combination of a revoluble receptacle support; fluid actuated plunger mechanism superposed to and rotatable with said support; cap applying means carried by said plunger mechanism; a fixed head contiguous to the plunger mechanism having a port connected to the source of motive actuating fluid and to which port the plunger mechanism is connected at a predetermined point in the movement of said mechanism; and a port in said head with which the plunger mechanism is placed in communication during a predetermined portion of its movement to exhaust the plunger actuating motive fluid.

1,375,365. GENERATOR UNIT. WARREN F. CLARK, Cleveland, Ohio, assignor to The Steam-Electric Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 24, 1919. Serial No. 292,520. 16 Claims. (Cl. 18—18.)



1. In a device of the character described a combination with a plate member, a rod mounted adjacent one side of the plate member, of a clamping device comprising an arm, one end of which is pivotally mounted upon such rod, capable of sliding along the rod and a movable presser member carried by the said arm and capable of moving upon the arm and transversely with respect to the hot plate.

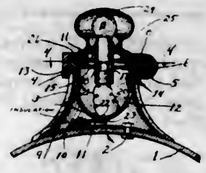
1,375,366. PRESSURE-GAGE. ERNEST B. CAOCKER, Bridgeport, Conn., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 10, 1918. Serial No. 227,671. 4 Claims. (Cl. 73—109.)



1. In a pressure gage, the combination with a dial and pointer mechanism and sensitive element associated therewith, and a socket piece having a plane flat seating surface, of a drawn or pressed metal inclosing case of circular contour having a portion of its peripheral wall depressed to form a flat bearing surface to receive the flat bearing surface of the socket piece, and means for attaching the socket piece to its seating.

1,375,367. DETECTOR-SIGNAL. SIDNEY DAWSON, Chicago, Ill., assignor, by direct and mesne assignments, to Dawson Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1917. Serial No. 171,881. 6 Claims. (Cl. 177—314.)

3. A hollow standard, a signal, seating means on the standard and coöperating seating means on the signal between its ends whereby the signal may be positioned in the standard with one end exposed and the other end concealed within the standard, locking means for securing the signal in either position, illuminating means in one end of said signal, and a contact on the other end thereof,

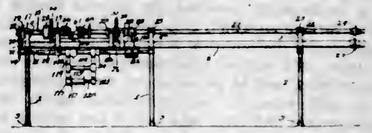


and a coöperating contact on the standard and connections whereby when the signal is positioned with its contact within the standard, the illuminating means will be active.

1,375,368. PROCESS OF MAKING CATALYTIC MATERIAL. SAMUEL DRUCKER and WILLIAM SIECK, Jr., Chicago, Ill. Filed Nov. 7, 1919. Serial No. 336,448. 2 Claims. (Cl. 23—28.)

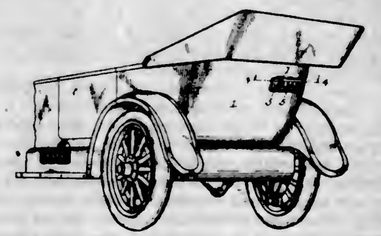
1. The process of making a nickel catalyzer which consists in first precipitating nickel carbonate from an aqueous solution of nickel salt by means of a soluble carbonate, then washing the precipitate to remove all soluble salts, then adding a powdered inert non-reducible material, then drying the mixture without calcining, and finally reducing the dry mixture in an atmosphere of hydrogen.

1,375,369. WRAPPING-MACHINE. OTTO E. EDSTROM, San Francisco, Calif., assignor, by direct and mesne assignments, of one-third to Albert B. Olston, Barrington, Ill., and two-thirds to Edstrom Machinery Company, Gary Station, Ill., a Corporation of Illinois. Filed Sept. 19, 1918. Serial No. 254,801. 18 Claims. (Cl. 242—7.)



5. In a machine of the class described the combination of spaced spring controlled cam actuated members for holding a plurality of cable portions side by side, a rotatable support therefor, and means for winding a wire around said cable portions.

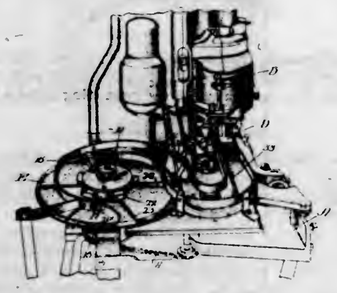
1,375,370. IDENTIFYING MEANS FOR AUTOMOBILES. HARRY W. FALCONER, Wood county, near Perrysburg, Ohio. Filed Mar. 3, 1919. Serial No. 280,204. 1 Claim. (Cl. 40—10.)



In an automobile, a frame, a casing without said frame having an opening therein, said opening having its marginal edge wall outwardly bulged, and means fixed to

said frame and having an outwardly protuberant portion complemental to and fitting into the bulged wall of said opening, and said protuberant portion having an identification part in register with said opening.

1,375,371. CAN-FEEDING MECHANISM. PAUL W. FLEISCHER, West Hoboken, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 3, 1916. Serial No. 101,471. 7 Claims. (Cl. 193—1.)



1. A can conveying mechanism comprising, in combination, a continuously rotating can support having a can-carrying surface on which cans may slide, fixed guides extending around the center of rotation for guiding the cans away from said center, can-propelling members movable to points below and to points above the can-carrying surface of said support, and yielding can-spacing means movable radially toward and from said center and on and relative to which the cans may roll rearward for the purpose of being spaced before said can-propelling members rise to can-engaging and propelling position.

2. A can-conveying mechanism comprising, in combination, a continuously rotating can support having a can-carrying surface on which cans may slide, fixed guides extending around the center of rotation for guiding the cans away from said center, can-propelling members movable to points below and to points above the can-carrying surface of said support, and can-spacing means movable radially toward and from said center and on and relative to which the cans may roll rearward for the purpose of being spaced before said can-propelling members rise to can-engaging and propelling position, said can-spacing means being arranged substantially in radial line with said can-propelling members.

3. A can-conveying mechanism comprising, in combination, a continuously rotating can support having a can-carrying surface on which cans may slide, fixed guides extending around the center of rotation for guiding the cans away from said center, inclinable can-propelling members mounted at their inner ends on pivots which are arranged transversely to said members and movable to points below and to points above the can-carrying surface of said support, and can-spacing means movable radially toward and from said center and on and relative to which the cans may roll rearward for the purpose of being spaced before said can propelling members rise to can-engaging and propelling position.

4. A can-conveying mechanism comprising, in combination, a continuously rotating can support having a can carrying surface on which cans may slide, fixed guides extending around the center of rotation for guiding the cans away from said center, can-propelling members movable to points below and to points above the can-carrying surface of said support, and can-spacing means movable independently of said can propelling members for the purpose of entering between and spacing the cans, and actuating means for moving said can-propelling members and said can spacing means.

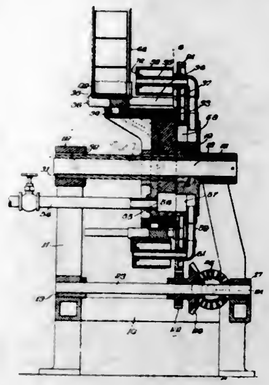
5. A can-conveying mechanism comprising, in combination, a continuously rotating can support, fixed guides extending around the center of rotation for guiding the cans away from said center, and tiltable can-propelling members mounted at their ends only on pivots which are arranged transversely to said members, said members having their other ends movable to points below and to points above the can-carrying surface of said support.

1,375,372. DISK WHEEL. GEORGE H. FORSYTH, Harvey, Ill. Filed Aug. 6, 1920. Serial No. 401,709. 15 Claims. (Cl. 301—64.)



1. In a wheel, the combination of hub plates, a disk forwardly concave and having its central portion disposed between the plates, and clamping bolts securing the plates upon the disk, the disk provided adjacent the hub plates with radially elongated pockets.

1,375,373. PROCESS OF DRYING CANS. FRED G. FOSS, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 3, 1919. Serial No. 280,496. 6 Claims. (Cl. 34—24.)

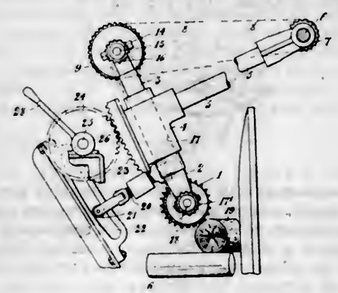


6. A process for drying cans and the like comprising applying a rapidly moving current of air to a circumferential portion of the can and advancing the application of said current to successive portions of the body lengthwise of the can.

1,375,374. BARKING-MACHINE. PER ALBERT FRESK, Robertsfors, Sweden. Filed Aug. 26, 1919. Serial No. 320,033. 5 Claims. (Cl. 144—208.)

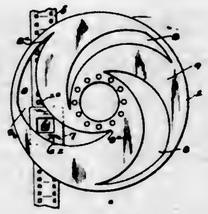
1. In barking machines wherein a toothed roller is resting on the log to be barked the said roller not only turning the log, but feeding it also in the longitudinal direction, the roller permitting of being positioned obliquely with

respect to the log, an arrangement involving that the shaft transmitting motion to the roller is yieldingly dis-



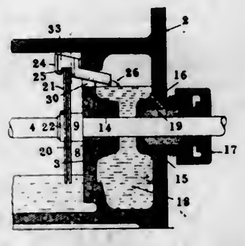
posed to the turning movement of the roller spindle which is required to enable the roller to assume an oblique position.

1,375,375. MOTION-PICTURE-PROJECTION-MACHINE SHUTTER. ARCHIE C. FEIST, Long Beach, Calif. Filed June 24, 1920. Serial No. 391,365. 6 Claims. (Cl. 88—19.3.)



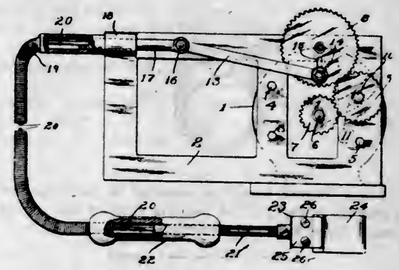
1. A motion picture projection machine shutter having substantially crescent shaped openings arranged to mask and unmask a film diagonally across the same.

1,375,376. OIL-SEAL FOR BEARINGS. VALÈRE A. FYNN, St. Louis, Mo., assignor to Western Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 30, 1920. Serial No. 355,051. 10 Claims. (Cl. 286—26.)



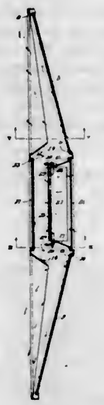
10. The combination with the crank case of a compressor or the like, of a crank shaft, a stuffing box for said crank shaft carried by said case, a partition in said case carrying one of the main bearings for said crank shaft and forming an auxiliary oil chamber at the side of said bearing adjacent to said stuffing box and a main oil reservoir at the opposite side of said bearing, and means for maintaining the pressure in the auxiliary oil chamber above that in said main reservoir.

1,375,377. POLISHING-MACHINE. HERMAN W. GABEL, San Francisco, Calif. Filed Nov. 11, 1920. Serial No. 423,461. 2 Claims. (Cl. 51—175.)



1. A polishing machine comprising a motor, a frame carried thereby and having a slide bearing, a rod in said slide bearing, suitable gears to reciprocate said rod, a flexible shaft connected with said rod, and a polishing pad connected with said flexible shaft and reciprocated thereby.

1,375,378. VENTILATOR. HARRY W. GADDESS, Baltimore, Md. Filed Jan. 9, 1920. Serial No. 350,378. 9 Claims. (Cl. 98—31.)

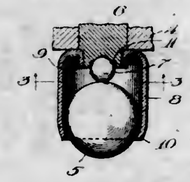


5. A ventilator of the class described comprising a casing of substantially trapezoid shape in plan and having front and rear walls with an air inlet in that portion of its front wall which is parallel to its rear wall, normally open and wind closed shutters for controlling the flow of air through the inlet into the casing, angularly arranged front wall members at the opposite sides of said air inlet, the rear wall of said casing being provided with outlets at the end portions thereof, and air deflecting members extending inwardly of the casing from said rear wall thereof, said air deflecting devices each comprising a U-shaped member comparatively wide at its inner end and tapering toward its outer end.

1,375,379. CASTER AND THE LIKE. JOHN A. GAMBLE, Chicago, Ill., assignor of one-fifth to John B. Arata, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,149. 2 Claims. (Cl. 16—151.)

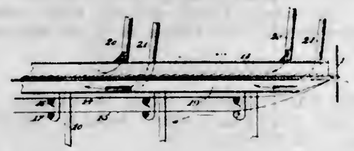
1. As a new article of manufacture, a caster or the like comprising in combination a stem adapted for engagement with an article of furniture, there being a circular socket on the lower end of said stem, a cylindrical shell secured to the lower end of the stem, a relatively large ball in the lower portion of the shell, the lower edge

of the shell being inturned and of a size smaller than the central portion of the relatively large ball to retain said ball in position within the shell, and a relatively small



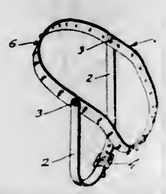
ball having its upper portion working in the socket of the stem and its lower portion bearing against the top of the relatively large ball, substantially as described.

1,375,380. CHOCOLATE-COOLING MACHINE. HENRY C. GATES, Cedar Rapids, Iowa. Filed June 24, 1918. Serial No. 241,688. 4 Claims. (Cl. 34—12.)



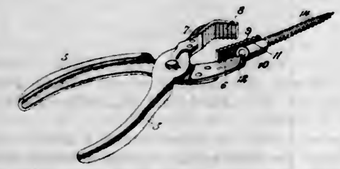
3. Delivery apparatus for chocolate-coating machines, comprising an endless apron to receive the candies as coated and to carry them from the coating machine, a supporting and carrying apron therefor, a support for the double apron, an air-tunnel inclosing the same through the larger part of its outward travel from the coating machine, and cold-air conduits connecting with said tunnel.

1,375,381. HAIR-NET HOLDER. JAMES MARTIN GOLDEN, Los Angeles, Calif. Filed Feb. 14, 1921. Serial No. 444,749. 4 Claims. (Cl. 132—49.)



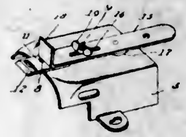
4. The combination with a hair net of a head encircling member having means for engaging said net, and a chin strap connected to the head encircling member for holding the latter in position.

1,375,382. CORK-EXTRACTOR. GEORGE W. GOMBER, Conyngham, Pa., assignor to A. W. Drake Manufacturing Co., Hazleton, Pa., a Corporation of Pennsylvania. Filed June 8, 1920. Serial No. 387,380. 5 Claims. (Cl. 65—48.)



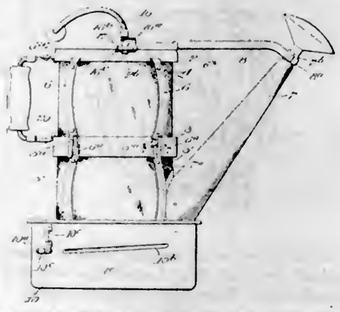
1. A cork extractor comprising a pair of pivoted levers having jaws, and a screw mounted on one of the jaws and extending outwardly and longitudinally therefrom.

1,375,383. NEEDLE-PLATE HOLDER. ROBERT E. GOSNEY, Bishop, Calif., assignor of one-half to Henry C. Traver, Bishop, Calif. Filed Dec. 16, 1919. Serial No. 345,342. 1 Claim. (Cl. 112—45.)



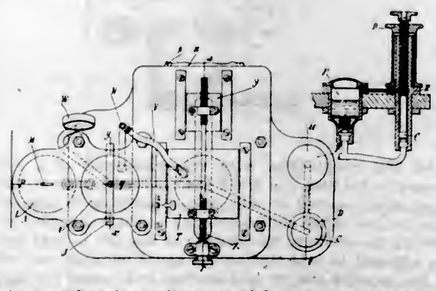
In combination with the cap of a stitching machine, of longitudinally alining spaced lugs adjacent one end thereof and designed to be received in the openings of a knife needle plate or a lip needle plate, a headed bolt passing through the bottom of the cap, a binding nut thereon, a bar having an elongated slot through which the bolt passes, said bar having its outer end formed with an upstanding lip, a compressible element upon the under face of the bar to the rear of the slot therein, the lipped end of the bar adapted to rest on the plate engaged by the studs, and a winged nut engaging with the bolt and contacting with the bar for compressing the latter against the plate.

1,375,384. COLLAPSIBLE CAN. AUGUST C. GUHL, Chicago, Ill. Filed Mar. 17, 1920. Serial No. 366,541. 13 Claims. (Cl. 150—49.)



13. In a collapsible can, in combination with rigid top and bottom members, a flexible fabric member which connects said rigid member, and struts for holding the flexible members extended, said fabric member having a pouring spout leading from its lower part, and having at the top a partial closure flange or web extended from the side walls inward toward the middle at the side of the fabric member toward the spout.

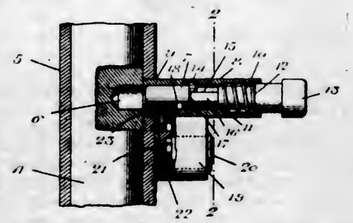
1,375,385. METHOD OF TESTING MATERIALS AND MACHINE EMBODYING THE SAME. RENÉ GUILLERY, Paris, France. Filed Apr. 2, 1920. Serial No. 370,864. 4 Claims. (Cl. 265—14.)



1. A method for testing material consisting in applying varying force to a test specimen of the material by means

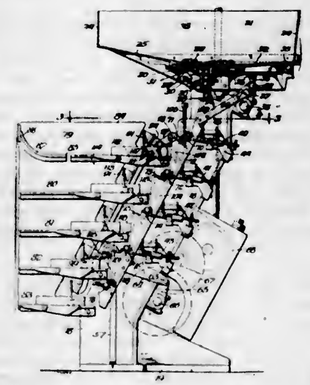
of fluid under pressure, causing such pressure to produce a proportional change in the volume of liquid in a container, causing the yield of the specimen to effect a proportional change in the volume of said container, then determining the limiting load for proportionality by observation of the amount of compensation required to annul the variations of the volume of liquid in said container subjected to an increase which is a function of the amount of elongation or of sag of the test specimen, and to diminution which is a function of the value of the load.

1,375,386. AUTOMOBILE-LOCK. ROBERT J. HALE and WILLIAM T. DOYLE, Lexington, Ky., assignors of forty-five per cent. to said Hale, one-tenth to James A. Wilmore and Fred. H. Ryan, and forty-five per cent. to Carrie Doyle, Lexington, Ky. Filed Feb. 2, 1920. Serial No. 355,847. 1 Claim. (Cl. 70—90.)



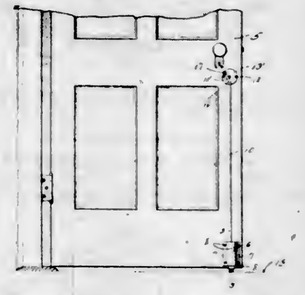
A lock comprising a tubular casing, a plunger bolt slidable therein and having one end projecting therefrom for manual operation to project said bolt at its other end from the casing, said casing and bolt having shoulders within the casing, a coiled spring surrounding the bolt and confined between said shoulders for retracting said bolt, said bolt having a reduced portion with a flat side, the member carried by said casing and bearing against said flat side to prevent the bolt from turning and to limit the movement thereof by said spring, said casing having a slot and the bolt having a notch to register with said slot, a second casing secured to the tubular casing, and a spring-pressed key controlled bolt within the second casing slidable at an angle to the plunger bolt within said slot to bear against the plunger bolt and snap into said notch when the plunger bolt is projected.

1,375,387. SORTING-MACHINE. HANS N. HALVERSEN, Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 13, 1919. Serial No. 344,616. 12 Claims. (Cl. 83—92.)



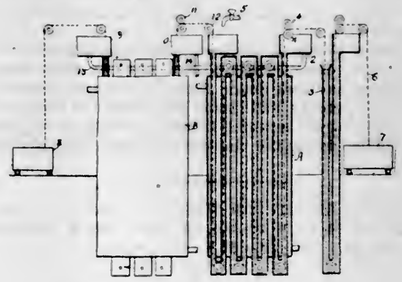
1. In a sorting appliance of the character described, the combination of a plurality of scales arranged in an inclined series in the same vertical plane adjusted for different weights, a plurality of classification-compartments arranged in an inclined series in the same vertical plane, and conveying means to individually convey the bodies to be sorted to the scales in succession and to deliver such bodies to the classification compartments corresponding to the scales which they overbalance, substantially as described.

1,375,388. DOOR-STOP. WALDO HARALSON, Las Animas, Colo. Filed Nov. 14, 1919. Serial No. 337,972. 2 Claims. (Cl. 292—167.)



1. A door stop comprising a casing having a movable floor engaging foot and means for holding the latter yieldably in engaging position, a lifting rod connected with the foot, a crank to one end of which the lifting rod is pivoted and having at its other end a handle movable on said pivot into and out of contact with the lifting rod and a pivot engaged through the crank at one side of a line connecting the pivot and the crank handle.

1,375,389. WARP-DYEING MACHINE. WALTER F. HASKELL, Westbrook, Me. Filed Apr. 4, 1918, Serial No. 226,591. Renewed Sept. 15, 1920. Serial No. 410,482. 2 Claims. (Cl. 8—19.)

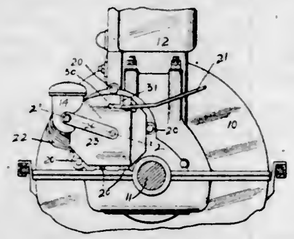


1. In a warp dyeing machine of the character described wherein the warp is drawn through a continuous coil of tubes containing the dyeing solution, a series of unit coils through which the warp is drawn in succession, said coils having inlets for the dye, means for supplying the last unit with the regular dyeing solution, the overflow for the exhausted liquor from the last unit being connected with the inlet of one of the preceding units.

1,375,390. TIMER-COVER DEVICE. JENS JESPERSEN, Des Moines, Iowa. Filed Feb. 10, 1920. Serial No. 357,675. 1 Claim. (Cl. 200—23.)

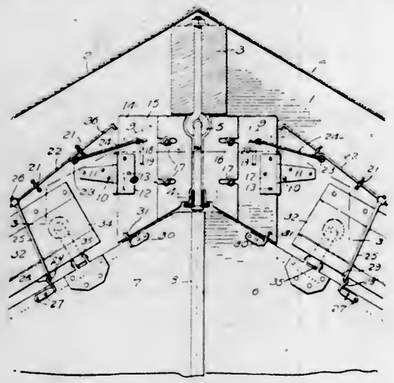
In combination with an engine housing having a plurality of bolts therein and a timer thereon, a cover member of a single piece of resilient material formed to have a body portion to extend over the timer and a flange formed from the edge of said body portion, said flange being designed to rest against the engine housing and have its edge against the bolts of said engine housing, the

parts being so arranged that said cover member may be sprung to position where it will be received between said



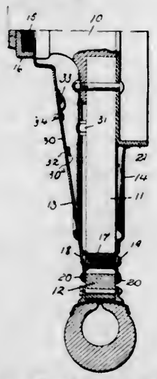
bolts and when released it will be yieldingly held over said timer by said bolts.

1,375,391. CLOSURE FOR HAY-FORK-TRACK OPENINGS. JOHN A. JOHNSON, Walcott, N. D. Filed Apr. 28, 1920. Serial No. 377,304. 10 Claims. (Cl. 20—16.)



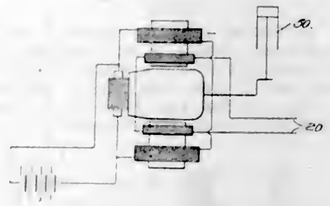
1. In a device as set forth, the combination with the front of a barn provided with a hay fork track opening, of sliding hay fork doors, hingedly mounted closures for the track opening, and means connecting the sliding doors and the hingedly mounted closures, whereby upon opening the sliding doors, the closures will simultaneously swing open.

1,375,392. GUARD FOR WHEELS. JOHN O. JOHNSTON, Newark, N. J. Filed Jan. 30, 1920. Serial No. 355,107. 2 Claims. (Cl. 301—37.)



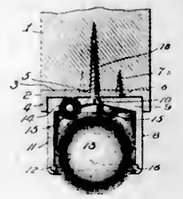
1. A guard for wheels comprising members fitting against the sides of the wheel, one of the members having an opening adjacent to the brake band of the wheel, the member having slits at the edge of the opening, a lid for the opening, lips on the lid and adapted to project into the slits, and a spring on the lid and bearing against the inside of the member.

1,375,393. HIGH-FREQUENCY MOTOR-ALTERNATOR. GEORGE A. JOHNSTONE, Chicago, Ill. Filed Oct. 7, 1918. Serial No. 257,162. 1 Claim. (Cl. 290—31.)



The combination with a gas engine and a storage battery of a motor alternator having its shaft connected with that of the gas engine, the said motor alternator having a direct current field system and a direct current winding whereby it may run as a motor for starting said gas engine on current supplied by the said battery and as a generator for charging the said battery with power supplied by the engine, and an alternating current winding giving a frequency higher than that resulting from the number of main poles and comprising conductors which are inductively operated upon simultaneously, said conductors being connected into a single circuit and spaced so that the electro-motive force generated is in the same direction at any instant throughout the circuit, whereby the device may be utilized in radio signaling.

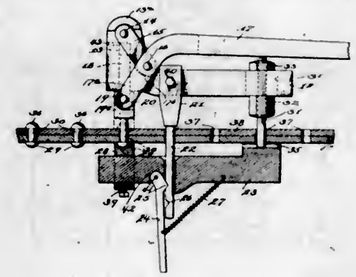
1,375,394. BALL-CASTER. THOMAS KELLY, Poulton-Wallasey, England. Filed Apr. 2, 1920. Serial No. 370,776. 4 Claims. (Cl. 16—151.)



1. A ball bearing caster comprising an upper or ball race member comprising a flat disk or plate having a depending marginal flange, a ball cage member having its upper portion fitted within said flange and comprising a flat disk or plate and a depending marginal flange, a relatively large ball arranged within the flange of the cage member, means for holding the ball therein, a series of small balls resting upon the large ball at spaced points around the top thereof, and a plurality of ball seats provided in the disk of the cage member, said seats opening out at the top, whereby the small balls are adapted to contact with the roll against the upper member.

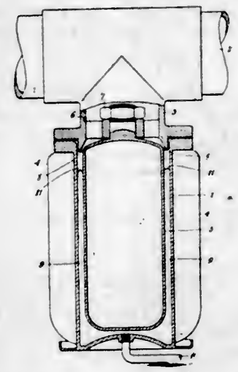
1,375,395. RIVETING-MACHINE. JOHN L. L. KROOK, Proctor, Vt., (now deceased and by decree of distribution to A. Elizabeth Krook.) Filed Aug. 12, 1918. Serial No. 249,456. 5 Claims. (Cl. 78—48.)

1. A riveting machine or device comprising the combination with a supporting bar having a recessed part, of toggle links jointed to said bar adjacent said recessed part, a pin or plunger working in said recessed part and carrying a riveting block, a forked lever to which said links are jointed and the forked forward toggle part of which lever has jointed connections with said riveting block, a resistance bar provided with an aperture, a second



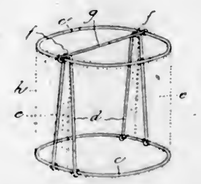
riveting block attached to said resistance bar, a steadying bar attached to said supporting bar, locking means for said steadying bar, and additional steadying means attached to said supporting bar.

1,375,396. REFRIGERATING APPARATUS. ERNST GOTTHARD ERICSSON LANGBERT, Stockholm, Sweden. Filed Dec. 26, 1918. Serial No. 268,382. 4 Claims. (Cl. 62—1.)



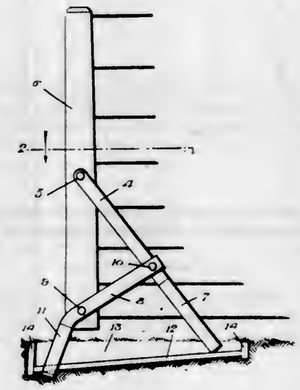
1. A cooling apparatus having an outer cooling surface and consisting of an outer heat conducting casing adapted to contain a refrigerant, a receptacle adapted to contain a congealable substance and arranged inside said casing so as to be surrounded by the refrigerant, and means for circulating the refrigerant through the casing.

1,375,397. BUTTER-COOLER. GEORGE LAWRENCE, Adelaide, South Australia, Australia, assignor to William Usher, Norwood, South Australia, Australia. Filed Jan. 31, 1919. Serial No. 274,233. 2 Claims. (Cl. 45—132.)



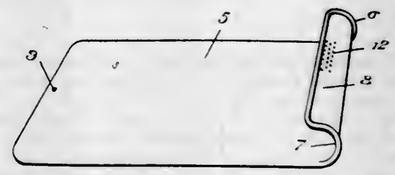
2. In a butter cooler of the character described a collapsible cover comprising top and bottom rings, a diagonal bar carried by the top ring, inverted U-shaped members swingably connected at opposite points on the bottom ring and having their medial portions formed with depressions adapted to engage and bear against the diagonal bar, when the members are swung upwardly so as to maintain the frame in an extended position, flexible connecting members between the rings and a covering of absorbent material secured to the rings and forming the sides and top of the cover.

1,375,398. POST-ANCHOR. CASWELL LEE LEONARD, Corinth, Miss. Filed Feb. 27, 1920. Serial No. 361,611. 4 Claims. (Cl. 189—29.)



1. In a post anchoring device, the combination with a post, of bars secured to the post, one bar having a loop shaped anchor below the post and the other bar having a loop-shaped foot at one side of the post, and an anchor plate to be embedded in the ground on which said foot bears, and under which said anchor extends.

1,375,399. PASTRY-BOARD. CASWELL LEE LEONARD, Corinth, Miss. Filed Apr. 27, 1920. Serial No. 377,106. 2 Claims. (Cl. 146—15.)

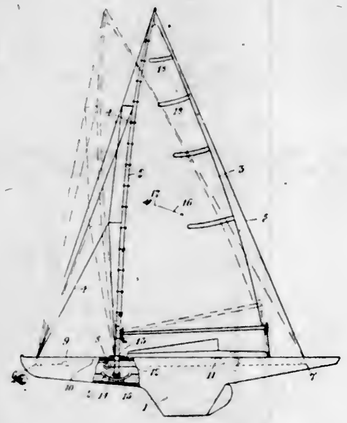


1. A device of the character described comprising a plate to lie on a support having one end bent back upwardly in overhanging position and forming a trough at said end of the plate, said bent back portion having a grater, whereby the grated material will fall on the plate and into the trough.

1,375,400. SAILBOAT-RIGGING. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden. Filed Mar. 3, 1920. Serial No. 363,058. 7 Claims. (Cl. 114—91.)

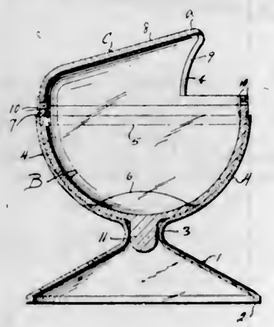
1. A rigging for sail boats, characterized by the mast with the rigging being adjustable in the longitudinal di-

rection of the boat, and provided with an operating device by means of which the mast may, when sailing, be caused



to assume different slanting positions, in order to change the relative position of the pressure center of the wind on the sail.

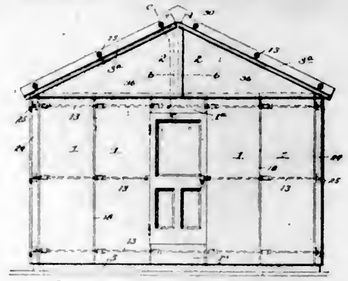
1,375,401. SERVING-BOWL. PAUL W. LUDDY, Brookland, D. C. Filed Nov. 3, 1920. Serial No. 421,562. 1 Claim. (Cl. 65—15.)



A device of the class described comprising, in combination, a stand provided with an upstanding hollow neck, a supporting base integral with and above the hollow neck, a plurality of webs and arms extending upwardly from the base, the arms extending upwardly farther than the webs, a continuous member supported by the arms, a bowl insertible through the continuous member and supported on the said base and webs, a cover for said bowl, depending fingers carried by the cover and contacting with the opposite faces of the bowl for holding the cover in applied position, said cover having its crown portion tapered toward a point to one side of the axial center of the bowl, the crown portion of the cover being provided with an entrance opening, the high point of the taper being adjacent the top of said opening.

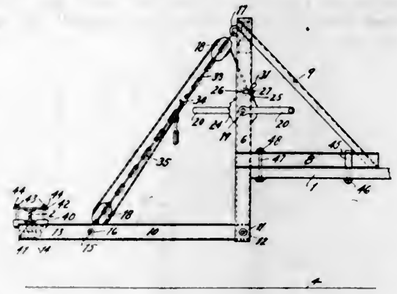
1,375,402. SECTIONAL BUILDING. CHARLES FREDERICK MCAVOY and DANIEL EDWARD MCAVOY, Long Island City, N. Y. Filed Jan. 9, 1919. Serial No. 270,340. 22 Claims. (Cl. 20—2.)

1. A sectional building having walls each composed of a series of like framed, double-walled, hollow units in a common plane; and tie-rods extending from end to end of



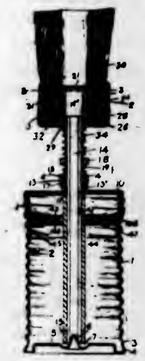
each wall through the several units, concealed therein, and holding said units under compression.

1,375,403. AUTO-TRANSPORTING DEVICE. JAMES M. MCDERMOTT, Springfield, Mass. Filed Mar. 17, 1920. Serial No. 366,497. 13 Claims. (Cl. 254—166.)



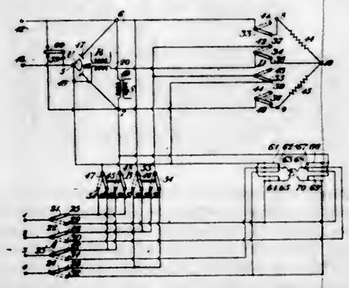
1. The combination, in an auto-transporting device, with a frame attachable to the rear end of a truck, and a lifter pivotally connected at the front end with said frame at the bottom, of means to support said lifter from said frame with the rear end of said lifter at different elevations from the ground.

1,375,404. FOUNTAIN LATHER-BRUSH. FRANK MCLAUGHLIN, Toronto, Ontario, Canada. Filed Oct. 12, 1920. Serial No. 416,549. 4 Claims. (Cl. 15—50.)



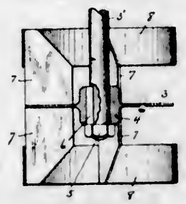
1. In a brush, a reservoir, a discharge tube leading from the reservoir, means for forcing the reservoir contents through the tube, a brush head longitudinally movable on said tube, whereby the discharge end of the tube may be carried from the brush base to and away from the free ends of the bristles of the brush.

1,375,405. APPARATUS FOR TESTING CAPACITY OF ELECTRIC CONDUCTORS. WILLIAM H. MARTIN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 22, 1918. Serial No. 213,174. (Cl. 175—183.)



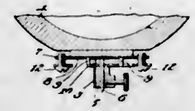
1. A testing apparatus comprising a Wheatstone bridge arrangement, an adjustable capacity forming one arm of the bridge, a circuit to be tested forming another arm of the bridge, and means included in part in each of said arms to adjust said capacity until the bridge is balanced.

1,375,406. AGITATOR. IRVING S. MERRELL, Syracuse, N. Y., assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Filed July 2, 1919. Serial No. 308,339. 7 Claims. (Cl. 259—96.)



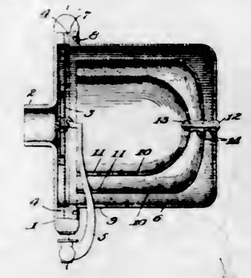
1. The combination with a tank of an agitator adapted for rotation about a substantially vertical axis and arranged within and eccentrically of the tank and closely adjacent a portion of the side wall of the tank, said agitator comprising means for producing outward radial throw of liquid drawn axially from opposite directions.

1,375,407. REPRODUCER. FRANK W. MINOR, Richmond, Va. Filed June 2, 1920. Serial No. 385,996. 3 Claims. (Cl. 274—35.)



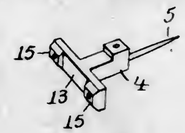
2. A tension bridge for sound reproducers comprising a substantially oblong body having a central opening therethrough, curved arms extending from opposite sides of the body at the opposite ends of the same and having their ends provided with openings alined with the central opening through the body, and fulcrum posts rising from the ends of the body at the sides opposite the respective arms.

1,375,408. RESONATOR-DOME FOR REPRODUCERS. FRANK W. MINOR, Richmond, Va. Filed June 2, 1920. Serial No. 385,998. 6 Claims. (Cl. 274—27.)



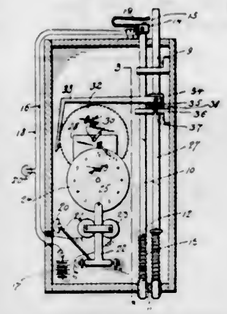
1. A sound reproducer provided on its open front side with a resonator comprising a tubular body having a closed front end and having an open rear end presented to and secured upon the reproducer and covering the front side of the same.

1,375,409. SOUND-BOX. GEORGE A. MOORE, Medford, Mass. Filed Apr. 3, 1920. Serial No. 372,377. 4 Claims. (Cl. 274—35.)



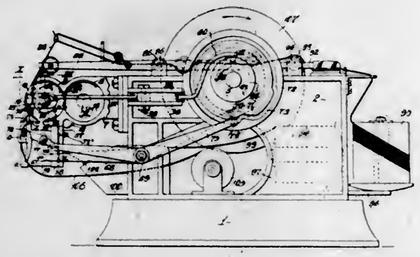
1. A sound box having a resonator diaphragm, a pivotal diaphragm, a needle arm, a pair of cross members clamping the pivotal diaphragm between them and disposed for the pivotal support of said needle arm, an end of the latter being attached to the resonator diaphragm, said parts being so constructed that substantially the ends alone of the cross members contact with the pivotal diaphragm.

1,375,410. SIGNAL AND REGISTERING MECHANISM FOR WELL-DRILLING RIGS. GEORGE D. MORRISON, Louisville, Ky. Filed Apr. 21, 1920. Serial No. 375,508. 8 Claims. (Cl. 234—1.)



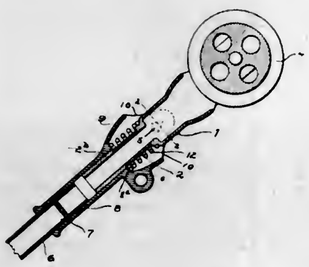
1. The combination with the rocking beam of a well-drilling rig; of a clock-driven record chart, a marker for making impressions on the chart, and actuating means for the marker operated by abnormal movements of the rocking beam.

1,375,411. STITCHING-MACHINE. CHARLES H. MYERS, St. Louis, Mo., assignor, by mesne assignments, to Acme Lock Stitch Sewing Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed June 17, 1918. Serial No. 240,291. 8 Claims. (Cl. 112—32.)



1. In a stitching machine, an oscillating arc shaped needle, a reciprocating thread-carrying bar, said needle and said bar each adapted to form a thread loop, a pushing element adapted to feed a locking thread into one of said loops, and means for severing said locking thread.

1,375,412. ELECTRICAL COLLECTOR. JACOB M. OLINGER, Springfield, Ohio. Filed Oct. 27, 1919. Serial No. 333,431. 8 Claims. (Cl. 191—52.)



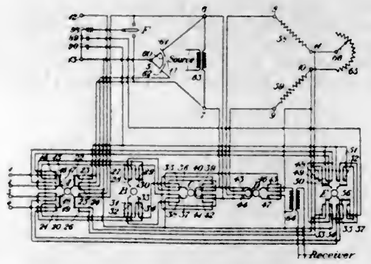
1. In a device of the character described, a contact carrying member, a pole member, said pole member having a portion arranged to receive a portion of said contact member in the individual assembled condition of the parts of each of said members, the interior of said pole member having notches the walls of which overhang, lugs on the exterior of said contact member, and a spring between said members to hold said lugs in said notches.

1,375,413. RADIATOR-OVERFLOW CONDENSER. LESLIE E. OPIE, Cedar Rapids, Iowa. Filed Apr. 21, 1919. Serial No. 291,515. 2 Claims. (Cl. 257—25.)



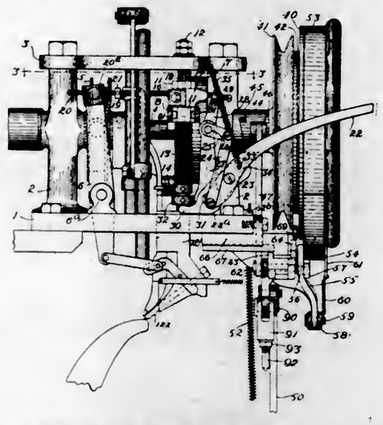
1. A condenser for engine radiators, comprising in combination with the radiator and its overflow pipe, a vessel, divided by an internal cone into two chambers, a tubular connection of the overflow pipe with the primary chamber, a passageway for steam and water extending from near the top of the primary chamber to near the bottom of the other chamber, and an air-vent at the top of the vessel.

1,375,414. APPARATUS FOR TESTING CAPACITY DEVIATIONS AND UNBALANCE OF ELECTRIC CONDUCTORS. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 22, 1918. Serial No. 213,191. 8 Claims. (Cl. 175—183.)



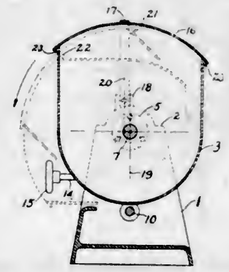
7. A system for testing capacity unbalance and deviation comprising circuit terminals to which may be connected a plurality of conductors capable of arrangement in phantom and side circuit relation, means to arrange said conductors in phantom circuit relation with certain of said conductors in side circuit relation, a current source and a receiving device, and means to associate the one with the phantom circuit and the other with the side circuit thereby producing a cross-talk effect in the receiver, means for balancing out said cross-talk effect and thereby indicating the capacity unbalance between the phantom and side circuit, a standard capacity element, means to associate said conductors with said standard capacity element, and means to balance the difference between the capacity of said conductors and of said standard, said means being arranged to directly indicate the difference between the capacity of said conductors and said standard.

1,375,415. SEWING-MACHINE. WALTER PEARSON, Whitman, Mass. Filed June 29, 1914. Serial No. 847,865. 2 Claims. (Cl. 192—116.)



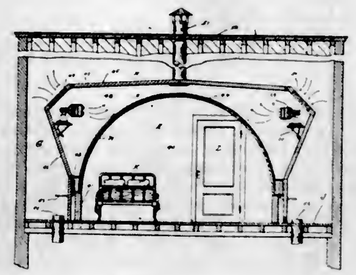
1. In a sewing machine, in combination, the driving shaft from which the stitch-forming instrumentalities are actuated, friction-driving devices for said shaft, manually-operated means for closing said devices together with graduated force to drive the machine with varying degrees of speed, a spring tending to open said devices to suspend the driving action, a detent for holding said devices closed together but under partly decreased pressure and driving with reduced energy, and a tripping device moving in unison with the driving shaft by which said detent is tripped to occasion arrest of the driving action.

1,375,416. COVER FOR MIXERS. BRYAN D. PINKNEY, Newport, Ky. Filed Sept. 1, 1920. Serial No. 407,507. 1 Claim. (Cl. 259—45.)



A cover for mixers comprising a stationary curved member, a supporting framework for said member, a bowl with a curved top edge adapted to be trunnioned in a frame and fitting beneath said curved member, and means to tilt said bowl; the radius center of said curved member being eccentric with the axis of said bowl so that a clearance space under the curved member results as said bowl is tilted forward.

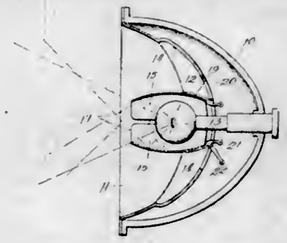
1,375,417. SLEEPING-COMPARTMENT. ROBERT N. RICHARDSON, Los Angeles, Calif. Original application filed Aug. 22, 1917, Serial No. 187,633. Divided and this application filed Mar. 4, 1919. Serial No. 280,546. 1 Claim. (Cl. 261—104.)



An apparatus of the character disclosed, including an arched wall, walls associated with and closing the ends of the arched wall, a door-way in one of said last named walls, and means for producing evaporation in intimate association with the arched wall, including a housing enveloping and being spaced from the arched wall, said housing having an air intake opening and an air outlet opening therein, means for moistening the outer surface of the wall, and means within the space between the housing and wall for producing currents of air and directing the currents over the outer moistened surface of the wall.

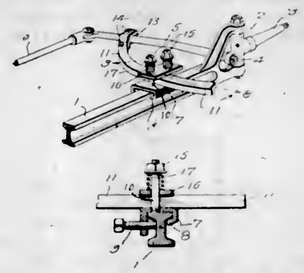
1,375,418. DIMMING DEVICE FOR HEADLIGHTS. WILLIAM A. SCHROEDER, Seattle, Wash. Filed Sept. 27, 1919. Serial No. 326,744. 7 Claims. (Cl. 240—45.)

1. In a headlight, the combination of a source of illumination, an outer reflector and a plurality of adjustable screens brightened on their inner surfaces to constitute reflectors, adapted when in open position to constitute a portion of the outer reflecting surface and adapted when in closed position to screen the light of the outer reflector and reflect the rays of light laterally, each of the screens



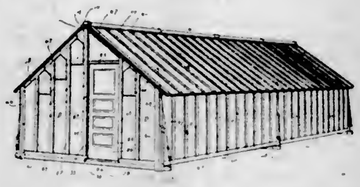
at its lower portion being configured to reflect rays of light upwardly toward the companion screen, substantially as described.

1,375,419. ATTACHMENT FOR STEERING MECHANISM OF MOTOR-DRIVEN VEHICLES. HARRY L. SCHULER, Bloomington, Ill. Filed Mar. 29, 1920. Serial No. 369,669. 2 Claims. (Cl. 280—89.)



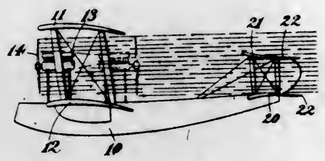
1. The combination with a front axle of a motor driven vehicle having a knuckle joint, of a rearwardly extending arm on the hub body of the joint, a friction device carried by the axle, an arcuate element carried by the rearwardly extending arm of the hub body of the knuckle and operatively engaging with said friction device for frictionally holding the arm in the position in which it is set, said friction device including means between which the arcuate element engages to prevent excessive movement of the arcuate element sidewise, thereby relieving strain on the element and the rearwardly extending arm.

1,375,420. COLLAPSIBLE AND EXPANSIBLE SHELTER. JOSEPH E. SCHUMACHER, Los Angeles, Calif. Filed June 20, 1917. Serial No. 175,930. 4 Claims. (Cl. 20—2.)



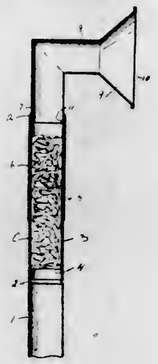
4. A portable house including a frame, interengaging plaster board panels fitted upon the frame, said plaster board panels being reinforced by strips applied to opposite sides thereof, certain of the strips on one side of the panels being arranged to overlap adjacent panels, while certain strips on the opposite side of the panels abut each other at the meeting edges of the panels, and fastening means connecting the abutting strips to lock the panels together.

1,375,421. TAIL-PLANE AND THE LIKE FOR AIRCRAFT. HUBERT SCOTT-PAINE, Southampton, England. Filed Mar. 17, 1920. Serial No. 366,459. 2 Claims. (Cl. 244—29.)



1. In an aircraft, a trailing plane-structure provided with a plane formed with a reversed lifting chamber and so situated with relation to the airscrew that the said plane of reversed lifting chamber is fully exposed to the slip-stream.

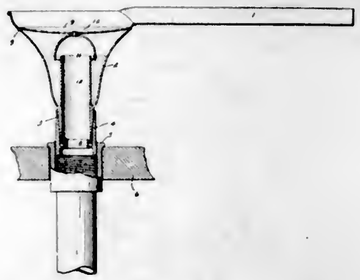
1,375,422. AIR-FILTERING DEVICE. GLEN D. SHEBER, Connell, Wash., assignor of two-fifths to Logan L. Long, Connell, Wash. Filed May 3, 1920. Serial No. 378,567. 3 Claims. (Cl. 183—49.)



1. An air filtering device of the character described comprising a tubular air inlet member, a sleeve larger in diameter than the inlet member, one end portion of said sleeve being extended inwardly and secured to the inlet member, a portion of said inlet member extending inwardly of the sleeve in annular spaced relation to the sleeve, an air filtering cartridge having a flared end, said flared end being disposed between and frictionally engaging the inwardly extending portion of the inlet member and the sleeve, and a tubular member disposed between and frictionally engaging the cartridge and the sleeve.

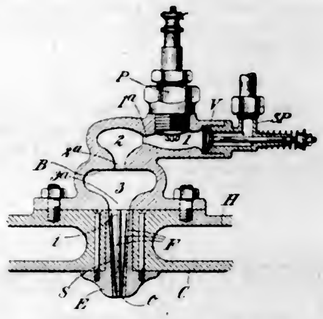
1,375,423. ADJUSTABLE DRAIN AND TRAP FOR REFRIGERATORS. BERNARD P. SMITH, St. Louis, Mo. Filed Jan. 5, 1921. Serial No. 435,260. 1 Claim. (Cl. 182—13.)

An adjustable drip-pan for refrigerators, composed of a horizontal-arm portion, a conical body to which one end of said arm is connected, a main gas-trap in said body, a strainer above said main gas-trap, a bearing-nipple to be connected to the drain-connection of the room, a U-shaped trap member on the interior of said nipple, and a tapered portion at the lower end of said conical body, projecting downwardly into the said U-shaped trap member, and forming a seal thereat between said nipple and said lower



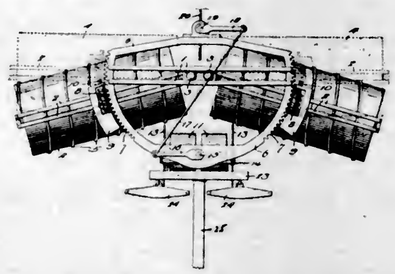
end of the conical body, as the latter is rotated or rests within said nipple.

1,375,424. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. FREDERICK ARTHUR SMITH, Brasted, England. Filed Jan. 19, 1920. Serial No. 352,424. 4 Claims. (Cl. 123—143.)



1. An ignition device which at its inner end has an inlet for an ignition charge of explosive mixture and is provided with an electric igniter and at its outer end terminates in a spout or flame-nozzle that extends toward or into the combustion-chamber of the engine, and which comprises a succession of chambers terminating at the inner end of the spout, each said chamber having a contracted outlet and being shaped so that its inner wall forms a baffle to check back-flow toward the igniter.

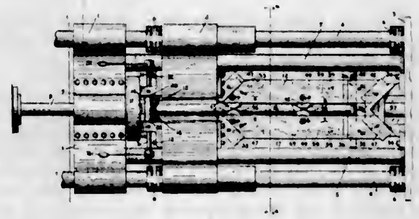
1,375,425. PULVERIZER. JESSE D. SMITH, Holton, Ind. Filed Apr. 10, 1920. Serial No. 372,771. 6 Claims. (Cl. 55—21.)



1. In a farm implement of the class described, the combination of a main frame including opposite gear faces,

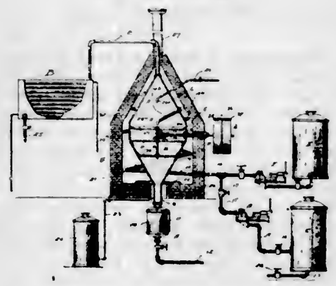
secondary frames pivotally mounted on the main frame and carrying worms in operative engagement with the gear faces of the main frame, means for adjusting said worms to change the position of the rollers relative to the main frame, spirally ribbed rollers mounted on the secondary frames, a front truck, and means operatively connected to the front truck for steering the apparatus, said means including reversely controlled guiding disks.

1,375,426. EXTRUSION-PRESS FOR THE MANUFACTURE OF STEEL TUBES. JAMES P. SNEDDON, Bayonne, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 27, 1918. Serial No. 246,977. 18 Claims. (Cl. 207—7.)



1. In a press of the class described, comprising a mandrel and means to present a blank for treatment thereby, means to support said mandrel and treated blank successively, said supporting means being constructed and arranged to be moved to blank-supporting position by action thereupon of the advancing blank.

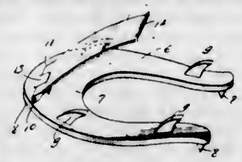
1,375,427. APPARATUS FOR REFINING OIL. SAMUEL F. STEPHENS, Los Angeles, Calif., assignor of one-third to Willis J. Boyle, Sr., and one-third to Charles G. Grant, Los Angeles, Calif. Filed Nov. 14, 1918. Serial No. 262,469. Renewed Jan. 24, 1921. Serial No. 439,692. 9 Claims. (Cl. 196—1.)



1. An apparatus for distilling hydro-carbons and the like, including a still, means for heating the still, a substantially flat and horizontally disposed rotary distributing and agitating plate mounted within the still, means for feeding hydro-carbon to the plate, and means for rotating the plate to cause the hydro-carbon to flow outwardly in a thin film over the flat face thereof and be discharged violently from the periphery of the plate in a thin spray which is distributed upon the walls of the still.

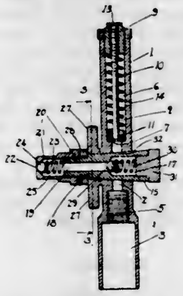
1,375,428. REMOVABLE HORSESHOE. HARRY D. TOBIN, Empire, Mich. Filed Mar. 18, 1920. Serial No. 366,883. 3 Claims. (Cl. 168—11.)

2. A horseshoe, comprising in combination a base plate having a transverse slot near its toe, a lock bar formed across the plate to the rear of the slot, an auxiliary plate, and a spring lock plate pivoted to the latter and adapted



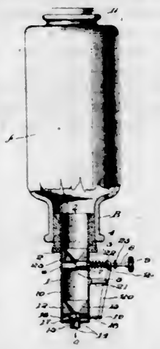
to be received first in said slot and then snapped on said lock bar.

1,375,429. TIRE-VALVE DEVICE. GORDON VAN CAMP, Drayton, N. D. Filed July 17, 1920. Serial No. 397,045. 5 Claims. (Cl. 152—11.5.)



1. A tire valve device including a casing adapted to be affixed to a tire stem, an air passage in the casing and providing communication with the tire interior, a valve member carried by the casing and operable to open or close said communication, and an air chamber in said member communicable with the air passage when the member is in open position, means on said member adapted to be connected to a source of air under pressure, an airway in said connecting means extending from the exterior to said air chamber, and an inwardly opening check valve in said air chamber to prevent outward escape of air through said air-way.

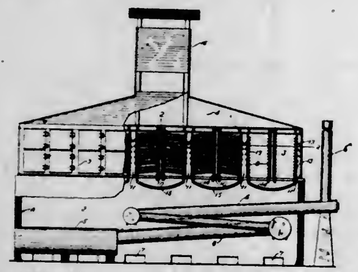
1,375,430. MEDICINE-MEASURING DEVICE. CLARENCE J. WALKER, Conneaut Lake, Pa. Filed Mar. 13, 1919. Serial No. 282,303. 2 Claims. (Cl. 221—112.)



1. In combination with a bottle having a neck communicating with the interior of the bottle and extending downwardly when the bottle is in inverted position, a second neck extending upwardly from the bottom of the inverted bottle, a removable stopper for the last-mentioned neck, a stopper for the first-mentioned neck having a bore therethrough, a tube having its upper end entering the bore in said last-mentioned stopper and communicating

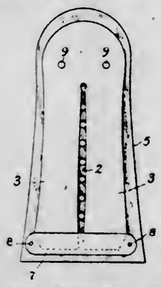
with the interior of the bottle, an obstruction within the tube and located intermediately of the ends thereof, said obstruction having a hopper-shaped upper portion with an opening at its apex, said obstruction provided with a transverse passage immediately beneath said opening, the bottom of said transverse passage having a second opening in alinement with the first-mentioned opening, a piston fitted to reciprocate in said transverse passage and adapted to cover both of said openings, a stem connected to said piston and projecting through the side of said tube, a button on the outer end of said stem, a lever having its upper end freely fitted about the stem, a bracket extending from the tube and carrying said lever, a coil spring extending about the stem and acting on the stem and said lever whereby to hold the piston and lever in an initial position, a collar on the stem spaced from the end of the lever when the parts are in the initial position but adapted to engage the lever end when the stem is moved, a second obstruction in the base of the tube provided with a hopper-shaped upper portion with an opening in its apex and a transverse passage beneath the opening and having a discharge port in its bottom vertically beneath the opening, a piston traveling in said last-mentioned passage, and a stem connected to the piston and to the lever end of said lever, said pistons adapted to alternately open and close their respective openings.

1,375,431. EVAPORATOR. JOHN T. WANN, Berkeley, Calif., assignor, by mesne assignments, to Robert C. Newell and Wm. C. Murdoch, Jr., San Francisco, Calif. Filed May 4, 1920. Serial No. 378,754. 4 Claims. (Cl. 34—39.)



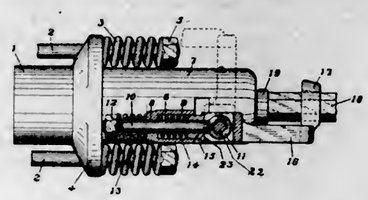
1. An evaporator comprising a housing, a heating, a drying and an exit chamber formed therein, a plurality of pairs of interspaced tray receiving chambers formed in the drying chamber, inlet flues arranged on one side of each of said chambers and communicating with the heating chamber, an exit flue on the opposite side communicating with the exit chamber, and a heat deflecting means positioned below each pair of tray receiving chambers.

1,375,432. TWIN-SPRING ARCH-SUPPORTER. JOSEPH H. WILBER, Winthrop, Mass. Filed July 28, 1919. Serial No. 314,372. 1 Claim. (Cl. 36—71.)



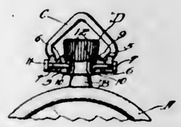
A twin-spring arch supporter comprising a plurality of separate parallel fingers, and a resilient plate having laterally projecting lugs adapted to be bent about the edges of one of said fingers for attaching it thereto.

1,375,433. TOOL-RETAINER FOR HAMMER-DRILLS. RUSSELL H. WILHELM, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 16, 1919. Serial No. 304,569. 3 Claims. (Cl. 121—32.)



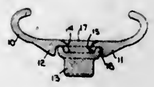
1. In a tool retainer for percussive tools, the combination of a front head having a plurality of counterbores, bolts in said counterbores, compression springs surrounding said bolts between the bases of said counterbores and the rear ends of the bolts for yieldingly resisting forward movement of the bolts, a steel retainer pivotally secured to the forward ends of the bolts, collars surrounding the bolts at the forward ends and adapted to bear on flat portions at the ends of the steel retainer and compression springs surrounding said bolts between the before mentioned ends of the counterbore and said collars for continuously exerting pressure to force the collars against said flat portions of the retainer and maintain the retainer in open or closed position.

1,375,434. WATCH-BOW FASTENER. EDWARD J. WITTMAN, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 5, 1920. Serial No. 421,854. 3 Claims. (Cl. 58—97.)



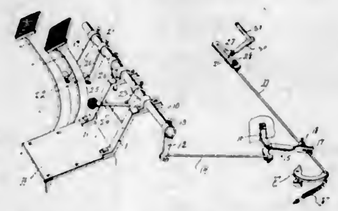
1. In combination, a watch pendant provided with a pair of oppositely disposed shoulders on each of which is formed a bore that alines with the other, there being an annular channel between the two shoulders which intersects each bore, and a pocket formed in the channel at each such point of intersection, a bow having its ends arranged adjacent the pendant shoulders, there being in each bow end a bore adapted to aline with the bores in the shoulder, a pin connection extending through each bow end and proximate shoulder, the pin end lying toward the center of the pendant being disposed within the annular channel and having a bend toward the pocket therein, and a crown associated with the pendant arranged partly within the annular channel in a manner to conceal the bent ends of the pin therein substantially as described.

1,375,435. DEMOUNTABLE RIM. ALVA W. WOODWARD, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed July 29, 1920. Serial No. 399,719. 1 Claim. (Cl. 301—11.)



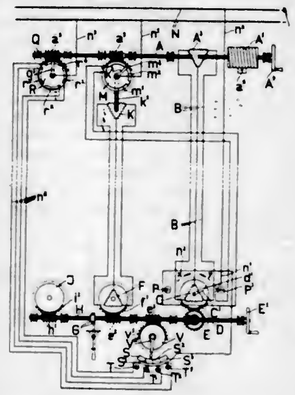
In a tire carrying rim, an aperture in said rim, an inwardly extending flange on said rim surrounding said aperture, and a driving lug secured in said aperture, being riveted over on the outer periphery of said rim, and having a circumferential flange to fit over said inwardly extending flange on the rim.

1,375,436. ACCELERATING DEVICE FOR MOTOR-CARS. FAY J. YOUNG, Wayland, N. Y., assignor of one-half to John Kiel, Wayland, N. Y. Filed Feb. 21, 1920. Serial No. 360,316. 3 Claims. (Cl. 74—39.)



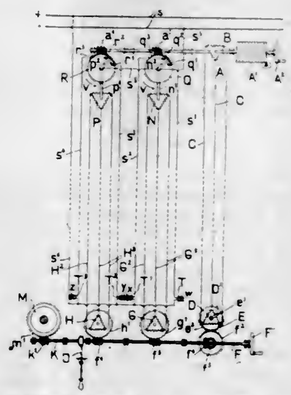
1. In a motor car, the combination with a speed controlling pedal and a throttle valve, of a shaft extending in front of said pedal and having thereon an outwardly extending arm operatively engaged by the edge face of the pedal whereby the shaft will be rocked by a depression of the pedal, operative connections between said rock shaft and the throttle valve to cause the opening of the throttle valve upon a rocking of the shaft in one direction, and an independent accelerator pedal operatively connected to said shaft and including an arm adjustably mounted upon the shaft, a rod pivotally connected to said arm, and a pedal plate detachably engaging the outer end of the rod.

1,375,437. LONG-DISTANCE SIGNAL AND CONTROL SYSTEM. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,069. 3 Claims. (Cl. 177—337.)



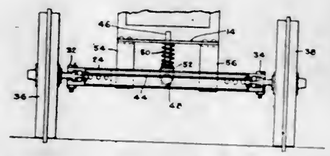
1. An apparatus of the class described, comprising a transmitter, a transmitter shaft, a receiver operated by and synchronously with said transmitter, a pointer rotatable with said receiver, a coöperating pointer coordinate to the pointer of the receiver, an object to be adjusted, means for adjusting said object, said cooperating pointer being operated by said object-adjusting means, electrical means for indicating the direction of rotation required for the object-adjusting means, said means being controlled by a contact device, said contact device being controlled jointly by said object-adjusting means and said transmitter shaft, a series of optical signals for indicating the amount of adjustment required for the object, a movable pointer coöperating with said signals, said pointer being positively connected to and operated by the object adjusting means, and electrical means controlled by the transmitter shaft for selectively operating the series of optical signals.

1,375,438. LONG-DISTANCE CONTROL AND SIGNAL DEVICE. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,071. 4 Claims. (Cl. 177—337.)



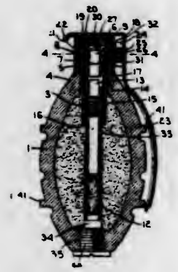
1. An apparatus of the class described comprising a transmitter, a transmitter shaft, a receiver, means connecting said transmitter and said receiver whereby they are actuated synchronously, a pointer operated by said receiver, a coöperating pointer, an object to be adjusted, means for adjusting said object, said coöperating pointer being connected to said object adjusting means, auxiliary transmitters operatively connected to the object adjusting means, auxiliary receivers operatively connected to said auxiliary transmitters, contact devices comprising sets of disks and arms operable by said transmitter shaft and said auxiliary receivers respectively, signaling devices, means connecting said signaling devices to said contact devices, one of said sets of disks which is connected to said transmitter shaft and one of said auxiliary receivers being provided with a greater ratio of rotation than the others, said sets of disks having means thereon for carrying along said arms when the transmitter shaft is rotated against the directing force exerted by the auxiliary receivers.

1,375,439. FRONT-AXLE DEVICE. GILBERT AMONSEN and GEORGE H. AMONSEN, Minneapolis, Minn. Filed Jan. 19, 1920. Serial No. 352,307. 3 Claims. (Cl. 280—112.)



1. A front axle device comprising a normally-horizontal member, an eye-bolt extending upwardly from said member and passing through a hole in the front portion of the vehicle frame, cushioning means upon which the front of the vehicle frame rests, a member secured to the front of the vehicle frame and provided with a vertical slot, and a pivot bolt extending through said horizontal member, the lower end of said eye-bolt and said vertical slot.

1,375,440. GRENADE. MARCUS O. ANTHONY, New York, N. Y., assignor of one-half to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1918. Serial No. 257,101. 18 Claims. (Cl. 102—29.)

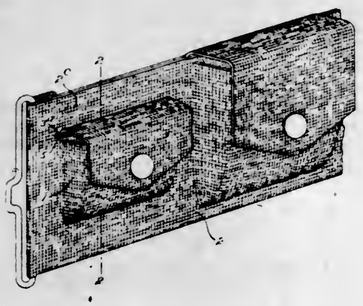


2. In a grenade, the combination with a grenade body, of a firing pin, a sleeve carried by the body and adapted to sustain a fuse and a detonator, a primer holder movably carried by the sleeve, and a spring-impelled hammer normally separated from the holder and adapted when released to drive said holder toward the firing pin.

1,375,441. PROCESS FOR THE EXTRACTION OF VALUES FROM HIGHLY-DILUTE SOLUTIONS. MARIE LOUIS EMILE BAUDIN, Besancon, France. Filed Apr. 7, 1917. Serial No. 160,568. 11 Claims. (Cl. 75—18.)

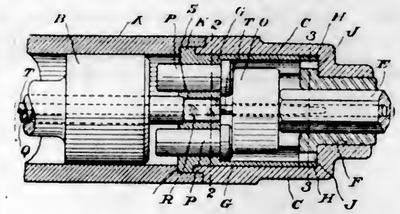
1. The process of extracting mineral compounds from highly diluted solutions thereof, which consists in producing a support having a colloidal absorbent coated on the surface thereof, and in bringing the highly diluted solution in contact with said adsorbent.

1,375,442. WOVEN POCKETED CARRIER. FRANK R. BATCHELDER, Worcester, Mass., assignor to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 11, 1919. Serial No. 344,182. 2 Claims. (Cl. 224—23.)



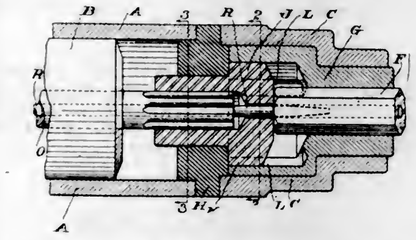
1. A pocketed carrier comprising a backing or belt-portion with a pocket thereon having its top at a distance below the upper edge or margin of said backing or belt-portion, said backing or belt-portion having a housing-slit formed therein and within the thickness of the backing or belt portion with its mouth-opening in the front face of the portion of backing or belt-portion which is exposed above the top of the pocket, and a cover-flap for the said pocket having its attaching end secured in the said housing-slit.

1,375,443. ROTATING CONSTRUCTION FOR PERCUSSIVE TOOLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,833. 3 Claims. (Cl. 121—7.)



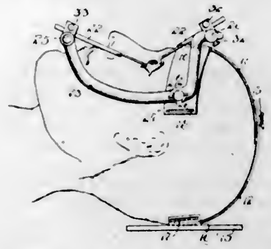
1. In a percussive tool, a cylinder, a piston reciprocating therein, a front head, a chuck in said front head adapted to receive the drill steel, an anvil block, a rotation sleeve engaging the said chuck, a rotary shaft passing through the piston and connected to rotate said rotation sleeve, and at least one tappet slidably mounted in said rotation sleeve and adapted to receive and transmit the impact blow of the piston.

1,375,444. ROTATING DEVICE FOR PERCUSSIVE TOOLS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,835. 3 Claims. (Cl. 121—7.)



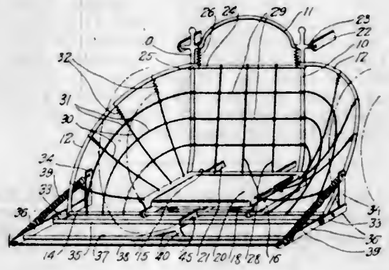
1. In a percussive tool, the combination of a cylinder casing, a piston reciprocating therein, an anvil block adapted to receive the impact of the piston, a chuck for receiving the drill steel, the chuck and anvil block having sliding but non-rotating engagement, and a rotating shaft passing through the piston and slidably but non-rotatably engaging the anvil block for imparting rotation to the drill steel.

1,375,445. APPARATUS FOR USE IN SURGICAL OPERATIONS ON THE EYE. ELIJAH R. CROSSLEY, Chicago, Ill. Filed Apr. 2, 1917. Serial No. 159,122. 9 Claims. (Cl. 128—20.)



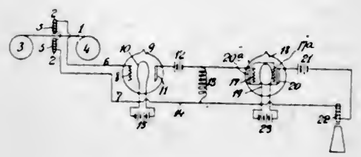
1. A device of the character described embodying adjustable means adapted to be secured to the head of the patient, said means embodying an element resting upon and extending across the forehead, spaced supports connected with the element and means mounted upon the support and adjustable across the space between the suports for retracting and holding the eyelid out of contact with the eyeball.

1,375,446. CAR-FENDER. HUGH DAVISON, New York, N. Y. Filed July 23, 1920. Serial No. 398,423. 4 Claims. (Cl. 293—40.)



1. A vehicle fender comprising a substantially convex frame, yielding interlaced elements secured to said frame, a spring supported receiving platform carried by the frame, a webbed backing at the rear of said platform, means for resiliently supporting said backing, a folding trip pivoted to the frame, a lever operated by said platform, a plate fixed to said trip, said plate having an opening at each side of the axis of said trip, a fork formed with said lever adapted to engage in the mentioned openings, and means for raising said fork upon depression of said platform.

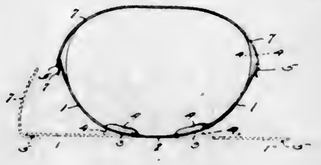
1,375,447. MEANS FOR AMPLIFYING CURRENTS. LEE DE FOREST, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone and Telegraph Company, a Corporation of Delaware. Filed June 24, 1913. Serial No. 775,529. 29 Claims. (Cl. 179—171.)



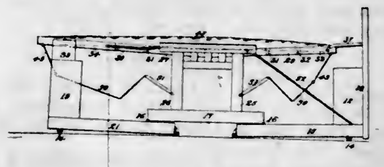
1. The combination with a source of weak undulatory current, of an electric circuit including a source of current, means to vary the conductivity of said circuit by and in accordance with said undulatory current, a reactance connected across said circuit, and an audion conductively connected with said circuit.

1,375,448. TRUSS. JAMES H. DOWNIE, San Antonio, Tex. Filed Sept. 10, 1919. Serial No. 322,889. 2 Claims. (Cl. 128—107.)

1. In a flat spring truss, the combination of an integral spring metal plate having spaced oval enlarged portions and having an upwardly arched connecting portion, and having upwardly arched end portions extending beyond the oval portions, said end portions being of sufficient length to project beyond the hips of the wearer when the truss is applied, flat rubber pad members cemented to the oval portions to form flat truss elements, and a waterproof band adjustably attached to the end portions of the spring metal plate to secure the device about the wearer.

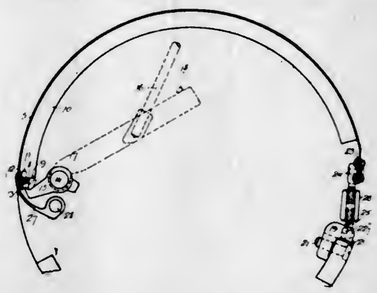


1,375,449. COMBINATION TABLE AND BED. THOMAS B. DRAPER, Oakland, Calif. Filed Oct. 24, 1918. Serial No. 259,517. 20 Claims. (Cl. 5—17.)



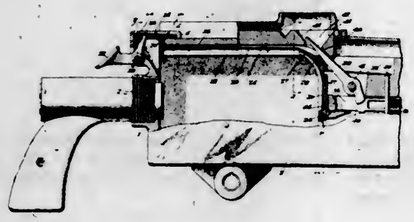
1. An article of furniture having a top, legs, one of which is disposed beneath each of the corners of the top and to one set of which the top is fixed, cross-braces to which the legs are pivotally secured, an articulately constructed spring frame supported from and above said cross-braces directly beneath the table top and normally concealed by the table top and means whereby the legs may be swung outwardly and downwardly to completely expose the springs and to lower them to the height of an ordinary bed.

1,375,450. PRINTING-PRESS. FRED S. ENGLISH, New London, Conn. Filed June 30, 1919. Serial No. 307,789. 4 Claims. (Cl. 272.)



1. In a printing press the combination with the impression cylinder, of a jacket for the impression portion thereof, a strip secured to the leading end of the jacket, and adapted to lie inside the peripheral line of said cylinder, dowel pins at the forward edge of the impression portion of the cylinder adapted to enter said strip, clamps for holding said strip engaged with said dowel pins, and detachable means for securing the rear end of said jacket to the cylinder.

1,375,451. TRIGGER AND SEAR MECHANISM FOR MACHINE-GUNS. ELBERT FOWLER, U. S. Army. Filed Dec. 6, 1918. Serial No. 265,609. 4 Claims. (Cl. 89—27.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a machine gun, a sear, a sear-actuating cam-member, comprising a plate bifurcated to form legs, the ends of which bear upon said sear, a trigger, and a connection between said cam-member and said trigger.

1,375,452. CAP FOR ARMOR-PIERCING PROJECTILES. ROBERT ABBOTT HADFIELD, Westminster, England. Filed May 22, 1920. Serial No. 383,605. 4 Claims. (Cl. 148—21.)

1. The herein described process of producing a steel cap having a stiffened or hardened front end portion for use with an armor piercing projectile, said treatment consisting in heating the cap to a high temperature, then cooling it, first rapidly and afterward more slowly to about the temperature of the atmosphere, reheating it to a high temperature but below that to which it was first heated, allowing it to partly cool, again reheating it but to a lower temperature than the first reheating, then suddenly cooling it, afterward heating its forward end or nose to a high temperature and then cooling the whole cap by completely immersing it point downward in a cooling liquid.

1,375,453. MANUFACTURE OF SHOVELS, SPADES, AND LIKE SHOVELING OR DIGGING DEVICES. ROBERT ABBOTT HADFIELD, Westminster, England. Filed May 25, 1920. Serial No. 384,209. 3 Claims. (Cl. 148—12.)



1. The manufacture of a manganese steel shovel having its handle socket in one piece with its blade, said manufacture consisting in reducing a plate of manganese steel into a sheet of the desired thickness by forging, annealing the resulting sheet, cutting the sheet to shape to form the desired shovel blade with shank for handle socket, bending the sheet to form the desired shovel blade with handle socket, heating the said blade and socket quickly to a high temperature and quenching it quickly in water.

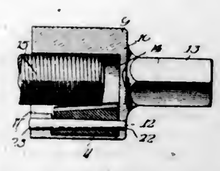
1,375,454. ELECTRICAL-RESISTANCE ALLOY. FRANK F. HANSEN, Chicago, Ill., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Filed Sept. 19, 1919. Serial No. 324,983. 4 Claims. (Cl. 75—1.)

1. An electrical resistance alloy containing principally chromium and copper in approximately equal amounts and small amounts of tungsten and molybdenum, the combined amount of tungsten and molybdenum being less than 10% with the tungsten in excess of the molybdenum.

1,375,455. ALLOY FOR ELECTRICAL RESISTANCE. FRANK F. HANSEN, Chicago, Ill., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Filed Sept. 19, 1919. Serial No. 324,985. 4 Claims. (Cl. 75—1.)

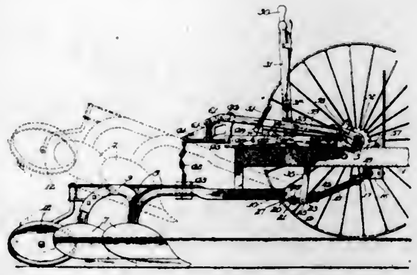
1. An electrical resistance alloy containing, chromium, tungsten and aluminum, the chromium being in preponderating amount compared with the combined amount of tungsten and aluminum, and the amount of tungsten being greater than the amount of aluminum.

1,375,456. CHUCK FOR STAYBOLTS. JOHN B. HASTY, San Bernardino, Calif., assignor to Tom Brown, Chicago, Ill. Filed July 26, 1915. Serial No. 41,818. 3 Claims. (Cl. 81—53.)



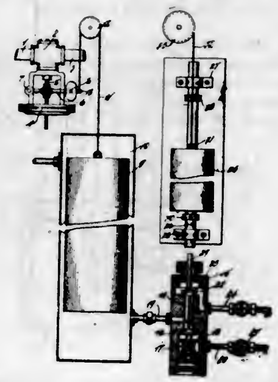
1. A chuck for stay-bolts and the like comprising a hollow head in which the end of a stay-bolt may be inserted, and a rocking clutching element inserted in said head and held in place by a pin extending through the head.

1,375,457. TRACTOR-PLOW. HENRY J. HEIDER, Carroll, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Original application filed July 27, 1917, Serial No. 183,114. Divided and this application filed July 29, 1918. Serial No. 247,310. 8 Claims. (Cl. 97—60.)



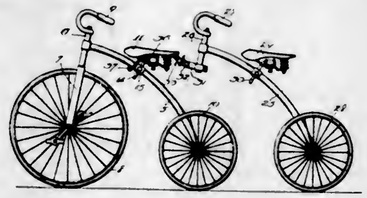
1. The combination of a wheel-supported vehicle, a draft frame pivotally supported thereby to swing vertically, a plow arranged to trail in the rear of the tractor and pivoted to said draft frame to swing vertically, means rigidly associating the plow with said draft frame for rotative movement upon a substantially longitudinal axis, lever controlled means for warping said draft frame to rotate the plow into proper working level, and lever controlled means for swinging the draft frame upon its pivot to regulate the working depth of the plow.

1,375,458. HEAT-REGULATING SYSTEM. BENJAMIN POST HERMES, New York, N. Y. Filed Apr. 28, 1920. Serial No. 377,256. 16 Claims. (Cl. 161—7.)



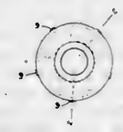
1. In a heat regulating system, in combination, time controlled means for turning on and cutting off a source of heat supply at independent and variable time intervals of such duration that the temperature of the space being heated is substantially constant.

1,375,459. VELOCIPEDE. EMIL C. HESSE, Chicago, Ill. Filed July 14, 1919. Serial No. 310,619. 1 Claim. (Cl. 208—109.)



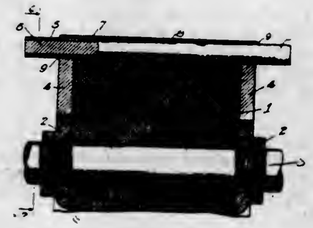
A velocipede having a main frame at whose forward end is a generally vertical tube having connection with a steering wheel by which the velocipede is in part supported, the frame being extended both rearwardly and downwardly and providing at its rear end a mounting for a pair of wheels, a seat carried on the frame, and a trailer for the velocipede and of construction generally similar thereto, comprising a main frame at whose forward end is a generally vertical tube, a device secured to said tube and extending forwardly thereof, and a loose connection between the forward end of said device and the frame of the vehicle adapted to afford support to the forward end of the trailer, the trailer frame being extended both rearwardly and downwardly and having its rear end supported by a pair of wheels, substantially as described.

1,375,460. ADJUSTABLE REAMER. WILLIAM B. JOHNSON, Elkhart, Ind., assignor to Foster-Johnson Reamer Company, a Corporation of Indiana. Filed Feb. 10, 1919. Serial No. 276,222. 4 Claims. (Cl. 77—76.)



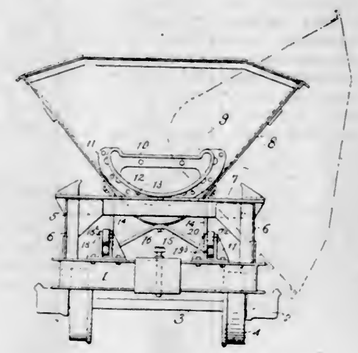
1. A metal cutting tool comprising, in combination, a body member or holder provided with a central bore; a plurality of radially movable blades mounted in said holder; a longitudinally movable plunger mounted in said holder bore and adapted to radially actuate said blades when longitudinally moved; and means for longitudinally actuating said plunger, said means comprising a revoluble adjustment nut sleeving said plunger, a complementary spiral connection between said nut and said plunger, a slotted abutment member carried by said holder, and an annular shouldered member carried by said nut and revolubly arranged within said abutment slot.

1,375,461. INDUCTION-MOTOR. AUSTIN KIMBLE, Wausau, Wis., assignor to Marathon Electric Mfg. Company, Wausau, Wis., a Corporation of Wisconsin. Filed May 12, 1919. Serial No. 296,649. 2 Claims. (Cl. 172—120.)



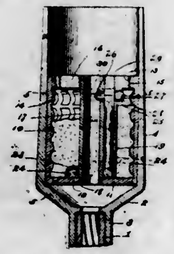
1. A squirrel cage winding comprising a pair of low impedance end rings, in combination with a peripheral series of compound bars connecting said rings, each bar including a core of high-reactance metal and a covering of low impedance metal.

1,375,462. LOCKING DEVICE FOR DUMPING-HOPPERS. JAMES LOCKHART, Lakewood, Ohio., assignor to The Lakewood Engineering Company, Lakewood, Ohio, a Corporation of Ohio. Filed May 26, 1919. Serial No. 299,739. 1 Claim. (Cl. 105—264.)



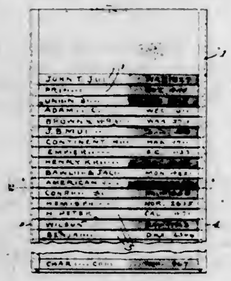
The combination with a frame, of a hopper, coöperating trunnion members upon the frame and hopper, a member carried by the hopper and provided with slanting sides, a pair of spaced pivoted members, said pivoted members engaging the said member carried by the hopper to lock the hopper in non-discharging position, movement of either of said pivoted members permitting the hopper to move to discharging position upon the opposite side of the frame with respect to the pivoted member, the other of said pivoted members retaining the hopper against movement in a direction opposite to that in which it is released for dumping.

1,375,463. RIFLE-GRENADE. JOHN V. MCADAM, U. S. Army. Filed Sept. 20, 1918. Serial No. 255,015. 11 Claims. (Cl. 102—29.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



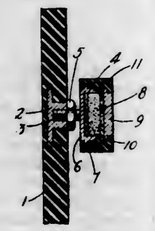
5. In a rifle grenade, the combination with a discharger adapted to fit the muzzle of a rifle, a grenade constructed to fit said discharger and having a closed and open end, a removable closure fitting the open end, and a projectile guide and fuse holder carried by said removable closure.

1,375,464. VISIBLE INDEX. FRANK L. MACDONAGH, Chicago, Ill., assignor to Acme Card System Company, Chicago, Ill., a Corporation of South Dakota. Filed Mar. 26, 1917. Serial No. 157,304. 1 Claim. (Cl. 40—64.)



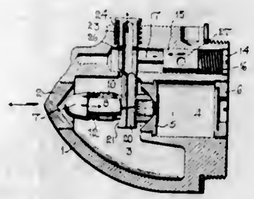
In visible indexes, the combination with a channel frame member, a plurality of transparent slip holders mounted therein, a slip detachably seated in each holder and extending substantially throughout the length thereof and a plurality of transparent different colored indicators detachably mounted on selected ones of said slip holders and extending across only a portion of the length of the latter.

1,375,465. DEVICE FOR CONVERTING SOUND OR OTHER VIBRATIONS INTO VARIATIONS IN AN ELECTRICAL CIRCUIT. CHARLES R. MOORE, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 18, 1918. Serial No. 235,417. 4 Claims. (Cl. 179—122.)



1. In a device of the inertia type for translating vibrations into impulses in an electrical circuit, a pair of electrodes, energy-absorbing material holding said electrodes in spaced relation, and means to reinforce internally said energy-absorbing material against flexure.

1,375,466. IMPACT-FUSE. EARL J. W. RAGSDALE, U. S. Army, assignor to Secretary of War, trustee for Government of United States of America. Filed July 30, 1918. Serial No. 247,381. 6 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



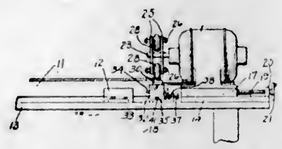
1. In a fuse for projectiles, the combination of a fuse body provided with an opening; firing mechanism in the body; combined holding and retarding means for retaining said mechanism in safe condition during acceleration; and means for ejecting said combined means through said opening.

1,375,467. MOUTHPIECE FOR CLARINETS. JOHN A. REDFIELD, Houston, Tex. Filed Aug. 21, 1920. Serial No. 405,142. 2 Claims. (Cl. 84—383.)



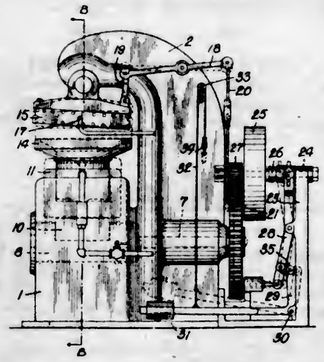
1. A clarinet mouthpiece having a cylindrical bore the upper base of the mouthpiece being a plane oblique to the axis of the bore which upper base serves as a table for the reed to rest upon.

1,375,468. METHOD AND APPARATUS FOR TREATING SELVAGE. MARK A. REPLOGLE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 12, 1919. Serial No. 310,347. 23 Claims. (Cl. 26—2.)



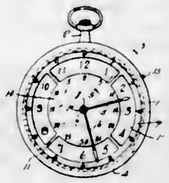
23. An apparatus for treating selvage comprising a motor having a shaft, an adjustable supporting base for said motor, adjustable means for supporting a strip of fabric adjacent said motor, a head carried by said motor shaft, said head including a plurality of spaced elements, and a plurality of members loosely supported by said elements, and means whereby the adjustment of said base may be effected to cause said members to intermittently strike the selvage of said fabric upon rotation of said shaft and head.

1,375,469. LEATHER-PRESS. ELIE RICHARD, Quebec, Quebec, Canada. Filed Oct. 23, 1919. Serial No. 332,721. 18 Claims. (Cl. 149—23.)



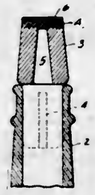
1. In a press, the combination of a base provided with a pair of superposed openings; a cylinder movable vertically in the upper opening; mechanism located in the lower opening for positively operating on the cylinder to bodily raise and lower it; a piston in said cylinder; means for effecting vertical movement of the piston independently of and relatively to the cylinder; a jaw secured to the piston to move therewith; and a jaw coöperative with the first jaw.

1,375,470. ADJUSTABLE WATCH-DIAL. HARRY L. SHAW, Lorain, Ohio. Filed Sept. 22, 1919. Serial No. 325,464. 2 Claims. (Cl. 58—128.)



1. In a watch, the combination of relatively movable superimposed dials, the movable dial carrying standard hour numerals, the stationary dial carrying two sets of minute numerals, said minute numerals reading from fixed points and consisting of inner and outer circles on the fixed dial, and webs connecting the inner minute circle with the outer minute circle.

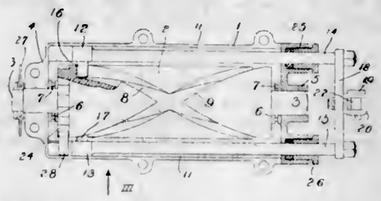
1,375,471. BOTTLE-STOPPER. ARTHUR G. SHERMAN, Detroit, Mich. Filed Oct. 17, 1919. Serial No. 331,460. 4 Claims. (Cl. 215—45.)



1. The combination with a bottle for receiving hypodermic solutions, said bottle having a neck portion, of a stopper inserted in said neck portion, formed of elastic material and having a central opening extending therethrough for a major portion of its length, and having integral therewith a portion of relatively soft elastic material subjected to compression through confinement in the bottle neck and normally closing said opening.

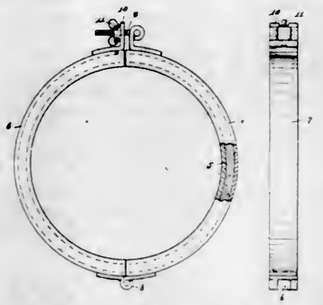
2. The combination with a bottle for receiving hypodermic solutions, said bottle having a cylindrical neck portion, of a normally frusto-conical bottle stopper inserted in said neck portion, with its larger end innermost, and compressed to cylindrical form by such insertion, the outer end of said stopper having a cap portion of softer elastic material, and an opening being extended centrally of the stopper from its inner end to said cap portion, said opening conforming to the frusto-conical shape of the stopper prior to insertion in the bottle.

1,375,472. MECHANICAL STARTER FOR INTERNAL-COMBUSTION ENGINES. HERBERT JAMES SIMPSON, Norton-on-Tees, England. Filed July 31, 1920. Serial No. 400,564. 1 Claim. (Cl. 74—40.)



A manually operated starting apparatus for internal combustion engines, comprising, in combination, a cylindrical casing provided with a longitudinal slot, a thrust bearing at each end of said casing, a rotary drum journaled therein, a ratchet wheel at one end of said drum, an endless inclined groove formed in the surface of the drum proceeding from a point near one end of the drum and coinciding with one end of a cross-sectional diameter of the same along one side of the drum to a point near the other end of the latter coinciding with the opposite end of said diameter, returning along the opposite side of the drum to the first-mentioned point, a reciprocating member supported near one side of the casing and parallel to the axis of the drum, a projection upon said member engaging in the endless groove in the drum and working on said groove in the casing, a pawl within the casing adapted to engage the said ratchet to permit rotary movement in one direction only, manually operated means for reciprocating said member and means for transmitting the rotation of the drum to an engine shaft.

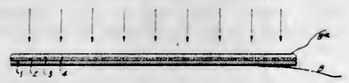
1,375,473. BELT-VULCANIZING MOLD. CLYDE L. SMITH and EMMETT S. WEBSTER, South Bend, Ind. Filed Oct. 15, 1919. Serial No. 330,932. 3 Claims. (Cl. 18—38.)



1. A vulcanizing mold for making endless belts comprising a mounting ring for assembling the belt material

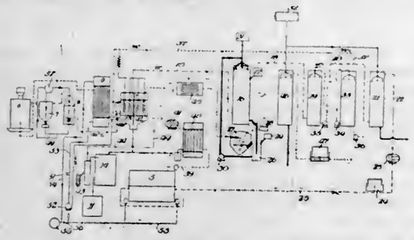
thereon, a sectional channeled ring adapted to encompass the mounting ring to form a circular chamber, and means for drawing said ring sections together to confine and compress the belt material within said chamber.

1,375,474. PHOTO-ELECTRIC APPARATUS. WALTER O. SNELLING, Allentown, Pa. Filed July 9, 1920. Serial No. 395,082. 7 Claims. (Cl. 219—63.)



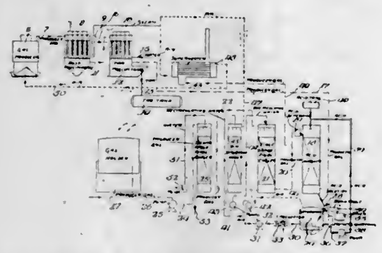
7. A photo-electric cell comprising a plate of metal in contact with a film of photo-electric material and a grid of wire in contact with a film of an aqueous electrolyte, the film of aqueous electrolyte and the film of photo-electric material having a surface of contact.

1,375,475. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1919. Serial No. 318,868. 3 Claims. (Cl. 23—21.)



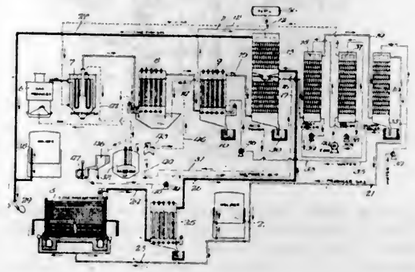
2. In a process for the recovery of tar and ammonia from producer gas, the combination of steps that consists in: concurrently cooling and precipitating the dust from the hot producer gas from the producer; further cooling and washing said producer gas with water; then precipitating the residue of the tar from such partially cooled but still hot gas; and then passing said gas through an acid wash to absorb the ammonia, substantially as specified.

1,375,476. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1919. Serial No. 318,890. 9 Claims. (Cl. 23—21.)



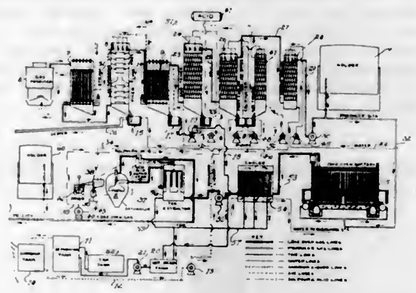
7. In a process for the production of tar and ammonia from producer-gas, the combination of steps that consists in: effecting a heat exchange between the hot gas from the producer and water to cool the gas and generate steam; removing the tar and ammonia from the cooled gas; mixing such steam with the air going to the producer, to augment the production of ammonia in the producer; firing tar and ammonia freed producer-gas and utilizing the heat generated thereby for superheating the steam charged air; substantially as specified.

1,375,477. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1919. Serial No. 319,733. 17 Claims. (Cl. 23—21.)



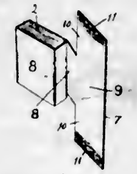
17. In a process for the recovery of ammonia from producer-gas, the combination of steps that consists in: passing tar-freed producer-gas, at about its saturation-temperature, through an acid-wash to absorb the ammonia from the gas and concurrently precipitating water from such gas; conveying the dilute mother-liquor from such acid-wash to a saturation-bath; passing super-heated air through said saturation-bath to effect deposition of ammonium sulfate, and saturate said air with substantially the full water content required for the production of said producer-gas; and then conveying said air to the producer; substantially as specified.

1,375,478. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1919. Serial No. 319,734. 14 Claims. (Cl. 23—21.)



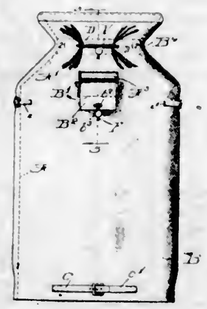
13. In a process for the recovery of tar and ammonia from producer-gas, the combination of steps that consists in: passing dust-freed gas, at a temperature substantially above its saturation-point, through an ammonia-liquor condensate to effect distillation of the ammonia from such ammonia-liquor; then passing the commingled gas and still-vapors through an electrical precipitator to precipitate the tar residue from the gas and the water from the still-vapors; then passing the commingled gas and still-vapors through an acid-wash to absorb both the ammonia of the gas and the ammonia of distillation; substantially as specified.

1,375,479. PACKAGE FOR DENTAL SOLDER AND THE LIKE. GEORGE L. VAN ALLEN, Prince Bay, N. Y., assignor to Baker & Company, Inc., a Corporation of New Jersey. Filed Sept. 21, 1918. Serial No. 255,069. 3 Claims. (Cl. 229—87.5.)



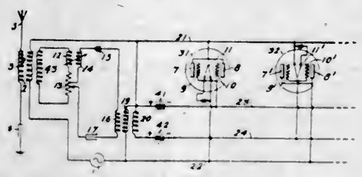
1. The combination with an envelop divided transversely into separable sections and adapted to fold on the lines of division, of a wrapper having a portion secured to one end edge of said envelop in alinement therewith and another portion transverse to said first-mentioned portion at a sufficient distance from the envelop so that the part of said alined portion intermediate the envelop and transverse portion may first wrap around the folded envelop in one direction and then the said transverse portion wrap around the whole in the other direction.

1,375,480. CAN-JACKET. WALTER A. WEST, Elkhorn, Wis. Filed Oct. 6, 1917. Serial No. 195,006. 2 Claims. (Cl. 150—52.)



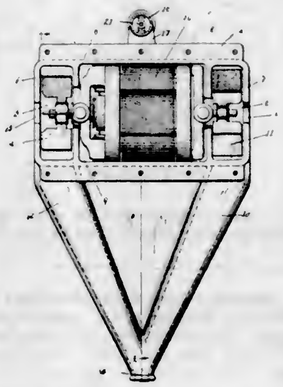
1. A can jacket adapted to be passed over the can from the top and retain the cover upon the can while the jacket is in place, the jacket having apertures through which laterally-projecting handles of the can may extend, and flaps secured to the jacket above the apertures, adapted to extend through the can handles and overhang the lower margin of the apertures, and means for releasably and sealably securing the flaps to the jacket body at the opposite side of the handle from that at which the flaps are secured to the body of the jacket.

1,375,481. POWER-MODULATOR FOR RADIOTRANSMISSION. HAROLD D. ARNOLD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 46,842, filed Aug. 23, 1915. This application filed Nov. 4, 1916. Serial No. 129,470. 13 Claims. (Cl. 250—6.)



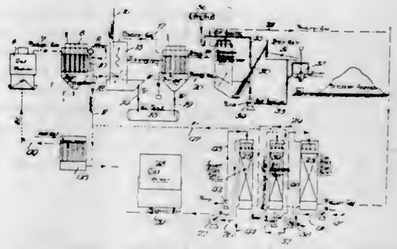
1. The method of transmission which consists in variably impeding a pulsating electron stream in accordance with modulated radio frequency waves to produce a modulated current and transmitting the electrical energy of said current to a distant station.

1,372,482. BLOWER. EDWARD C. H. BARTLETT, Cleveland, Ohio. Filed June 12, 1919. Serial No. 303,582. 2 Claims. (Cl. 230—11.)



1. A blower casing comprising upper and lower sections with two closed transverse partitions across the same, forming a fan chamber at each end of the casing and an intermediate motor chamber, the partitions having bearings for the motor shaft, the lower section having an outlet from each fan chamber.

1,375,483. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1919. Serial No. 318,908. 22 Claims. (Cl. 23—21.)

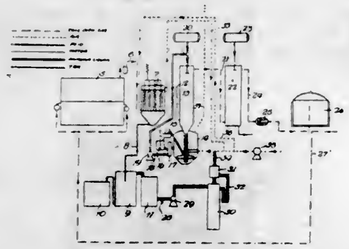


22. The process for the recovery of tar and ammonia from producer-gas, which consists in: subjecting such gas to a cooling operation, precipitating the dust from the gas, precipitating the tar from the gas, and then directly effecting the precipitation of ammonium sulfate, by passing such gas through an acid wash, the ammonia being absorbed from the gas by the acid-solution and the gas acting as the carrier for the evaporation from the acid-solution through which the gas passes; substantially as specified.

1,375,484. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 22, 1919. Serial No. 319,254. 13 Claims. (Cl. 23—21.)

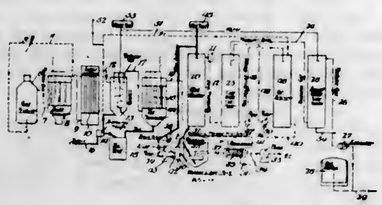
1. In a process for the recovery of tar and ammonia from coke-oven gas, the combination of steps that consists in: concurrently extracting the tar from the coke-oven gas, and cooling the gas by passing it in counter-current with air; passing such cooled gas through an acid-wash to absorb the ammonia of the gas; discharging the

mother-liquor from such acid-wash into a saturation-bath; and passing the heated air from the tar-extraction opera-



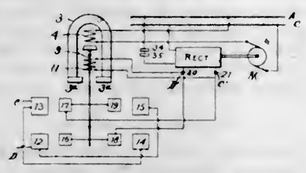
tion through said saturation-bath, to effect deposition of the ammonium sulfate; substantially as specified.

1,375,485. AMMONIA AND TAR RECOVERY PROCESS. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1919. Serial No. 319,811. 13 Claims. (Cl. 23—21.)



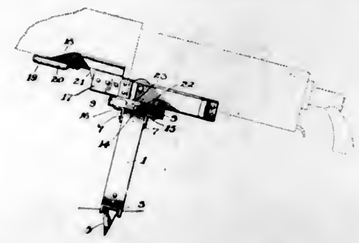
13. In a process for the recovery of tar and ammonia from producer-gas, the combination of steps that consists in: passing tar-freed producer-gas, at about its saturation-temperature, through an acid-wash to absorb the ammonia from the gas; conveying the mother-liquor from such acid-wash to a saturation-bath; passing super-heated air through said saturation-bath to effect deposition of ammonium sulfate; reheating the air from said saturation-bath; and conveying such air to the producer; substantially as described.

1,375,486. ELECTRICAL SYSTEM AND CONTROL THEREFOR. ARTHUR R. BULLOCK, Lakewood, Ohio. Filed Aug. 2, 1917. Serial No. 184,018. 20 Claims. (Cl. 175—364.)



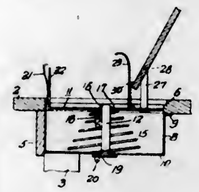
14. In an electrical system, an energizing A C circuit, a rectifying device connected with said A C circuit, an electro-magnetic device connected with the A C circuit, a switching device said switching device being included in a circuit connected to the rectifier said switching device being controlled by the operation of the electro-magnetic device first mentioned.

1,375,487. BIPOD. JOHN S. BUTLER and SAMUEL G. GREEN, U. S. Army. Filed Jan. 17, 1919. Serial No. 271,728. 13 Claims. (Cl. 42—94.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



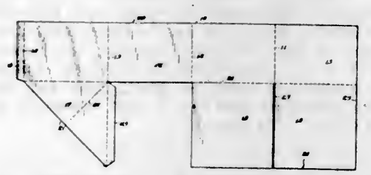
1. A bipod including a removable turret mounted for traverse, and a resiliently-supported member in the path of movement of said turret for limiting traverse and preventing accidental removal of the turret.

1,375,488. TABLE. PETER W. CHMIELOWSKI, Chicago, Ill. Filed Nov. 13, 1920. Serial No. 423,871. 8 Claims. (Cl. 45—31.)



1. The combination with a table having a flat top with an opening within the margin thereof, of a flat board to fit in and close said opening, said board having a game surface on one side and a plain surface finished like the table top on the other side, depressible means for supporting said board and raising the same above the table top, latch mechanism for holding the board depressed flush with said top means on the table for operating said latch mechanism for releasing said board, and means detachably connecting said board with said depressible means in a manner permitting said board to be reversed.

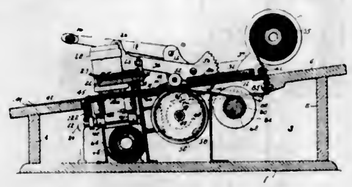
1,375,489. FOLDING BOX. JOHN N. DAVIS, Three Rivers, Mich., assignor to O. B. Andrews Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed Feb. 4, 1920. Serial No. 356,312. 1 Claim. (Cl. 229—16.)



A one-piece blank for forming a folding box including a relatively long strip scored to form four side sections and a securing flap at one end, one side edge of said strip provided with three extensions separated from each other by spaces at least as wide as two thicknesses of the blank and scored at the joint to permit ready bending, two of said extensions being of rectangular form and forming continuations respectively of two of the side sections at one end of the strip and adapted to form

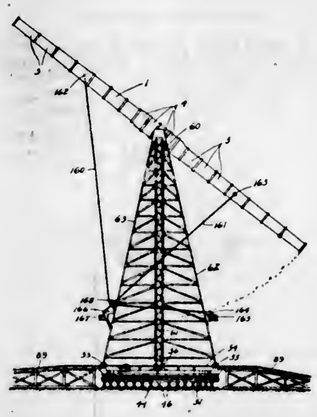
respectively an intermediate bottom and a top bottom section of the completed box, the other extension being of right triangular shape with one side edge joined to the side section at the end of the strip opposite to the end provided with intermediate and top bottom sections, said triangle shaped extension having its hypotenuse facing away from the other extensions and said triangular shaped extension constituting the lower bottom section of the completed box and said lower bottom section provided with a securing flap on that edge thereof which extends perpendicularly from the length of the strip and facing the other extensions.

1,375,490. CASH-RECORDING DEVICE. WILLIAM L. DEMING, Salem, Ohio. Filed Dec. 23, 1918. Serial No. 268,029. 30 Claims. (Cl. 281—8.)



1. In a recording device, the combination of means for receiving a record strip, a support therefor exposing a portion of the strip to receive a notation, means for advancing the strip, strip severing mechanism including a spring as actuating means therefor, and a device controlling the actuation of the severing mechanism consequent on the movement of the advancing mechanism.

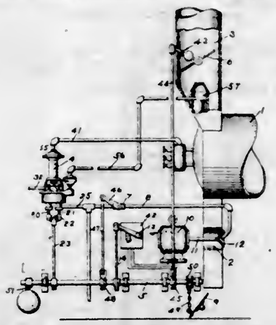
1,375,491. HEAVY ARTILLERY. KENNEDY DOUGAN, Minneapolis, Minn. Filed Apr. 26, 1915. Serial No. 23,869. 20 Claims. (Cl. 89—37.)



1. A gun comprising a gun mount and a barrel, said barrel being formed of a plurality of transverse sections, means for successively securing said sections together to erect the gun, and means including said gun mount, for supporting the assembled sections while erecting the gun.

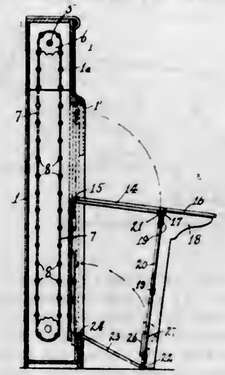
1,375,492. LIQUID-FUEL-CONTROL SYSTEM. SIDNEY G. DOWN, Berkeley, Calif., assignor to Associated Engineering and Supply Company, San Francisco, Calif., a Corporation of California. Filed July 5, 1919. Serial No. 308,886. 2 Claims. (Cl. 158—45.5.)

1. The combination with a steam boiler and furnace, of an electric motor, means operated by said motor for atomizing liquid fuel, a valve for regulating the supply of liquid fuel to said means, a rheostat for regulating the



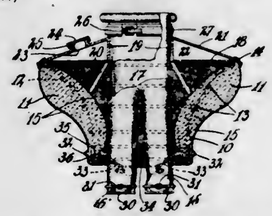
speed of the motor, a shaft operatively connected to said valve and rheostat, and means governed according to the pressure of steam in the boiler for operating said shaft.

1,375,493. SELECTIVE ROLLER FILING-CABINET. WILLIAM F. DREW, San Francisco, Calif. Filed Sept. 10, 1918. Serial No. 253,351. 1 Claim. (Cl. 211—16.)



A filing cabinet for the described purposes, comprising a case having an exposure opening in its front; a door to control said opening and adapted when dropped to serve as a table in front of said opening; an extension leaf hinged to the outer edge of said door; legs hinged to the door; struts hinged to the case and to the legs; side-swinging brackets hinged to the legs for supporting the extension leaf; and an endless movable series of sheet-carrying rollers, adapted to be selectively brought into position behind the exposure opening, whereby the sheet may be drawn out from any given roller through the opening and lie on the dropped door for inspection.

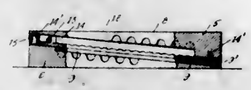
1,375,494. LIFE-BUOY. ANDREW DUDAS, Homestead, Pa. Filed Feb. 7, 1921. Serial No. 442,929. 6 Claims. (Cl. 9—20.)



1. A life-buoy comprising an inverted-bell-shaped annular float, a garment comprising legs and a waist portion

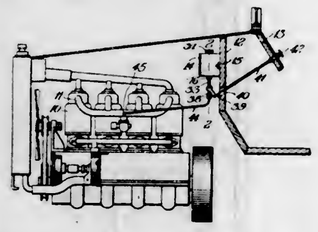
surrounded and carried by said float, and bracing means extending between the upper part of the float and the said waist portion.

1,375,495. PRINTER'S QUOIN. GEORGE DUNCANSON, Jr., Jersey City, N. J. Filed Apr. 27, 1920. Serial No. 377,056. 2 Claims. (Cl. 254—42.)



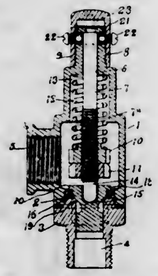
1. A printer's quoin comprising two members having angular faces in sliding contact with each other, a pair of spaced lugs formed on one of the members, a spaced bar carried by the other of said members and adapted to travel between the spaced lugs to form guiding means, and a transversely-extending pin overlying the spaced bar whereby relative movement of the members is prevented.

1,375,496. PRIMER AND HUMIDIFIER FOR INTERNAL-COMBUSTION ENGINES. CHESTER C. ECKHARDT, Rochester, N. Y. Filed Apr. 25, 1919. Serial No. 292,705. 5 Claims. (Cl. 123—180.)



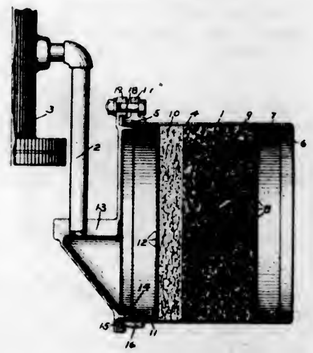
1. An attachment for internal combustion engines comprising a container, an air inlet communicating therewith adjacent its bottom and means for closing the latter, a conduit communicating at one end with the intake of the engine and extending at its other end through said container and communicating with the latter adjacent its top, and means for opening and closing communication between said conduit and the bottom portion of said container.

1,375,497. VALVE. ELMER H. EICKMAN, Dayton, Ohio, assignor to Buckeye Iron and Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 320,994. 4 Claims. (Cl. 251—3.)



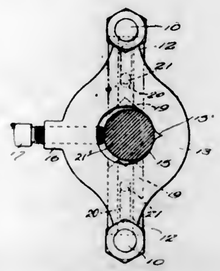
1. In a valve, the combination, with a valve housing having an inlet and an outlet port respectively, a detached valve head coöperating with the inlet port, a spring actuated valve stem acting normally to hold the valve head in closed position relative to said port, and projecting exteriorly of the housing, and a valve actuating cap completely inclosing the projecting end of the stem and forming a fluid-tight joint with the housing.

1,375,498. SUCTION AIR-STRAINER. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 4, 1919. Serial No. 321,622. 2 Claims. (Cl. 183—45.)



1. An air strainer comprising a casing having an inwardly folded flange at one end forming a recess, a cup shaped member mounted in said recess, an outwardly turned flange at the opposite end of the casing, a bracket, and a ring engaging the outwardly turned flange to clamp the casing to the bracket.

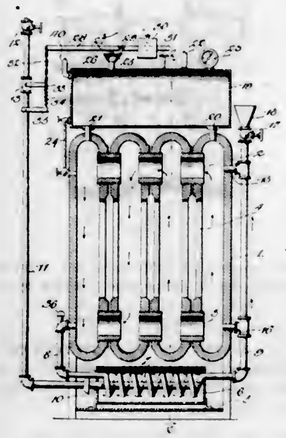
1,375,499. LATHE-DOG. CHET C. FESSENDEN, Derby, Conn. Filed Apr. 29, 1919. Serial No. 293,515. 1 Claim. (Cl. 82—41.)



A lathe dog having a central opening therethrough and an offset at one side of the opening to provide clamp shoulders, a set screw operating through the body and into the opening and diametrically opposite to the offset, clamp blocks movably engaging the body with object engaging teeth at their contiguous ends, and coacting with the shoulders and set screw.

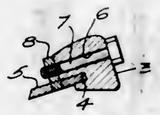
1,375,500. RADIATOR. ROSE FEVOLA and ANTONIO FEVOLA, Brooklyn, N. Y. Filed Sept. 25, 1920. Serial No. 412,751. 3 Claims. (Cl. 237—7.)

1. In a device of the class described, the combination of a plurality of radiator sections connected at their tops and bottoms for permitting free circulation, a water heating coil connected to said sections, a burner associated with said coil, a steam drum mounted on said radi-



ator sections and communicating therewith, and automatic means connected with said drum and adapted to control the flow of fuel to said burner.

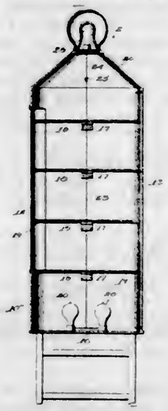
1,375,501. KNIFE. PHILIP GANZHORN, Chicago, Ill. Filed May 22, 1918. Serial No. 236,069. 1 Claim. (Cl. 17—20.)



In a knife of the character described, the combination with a substantially rectangular supporting arm having a longitudinal slot in one side face and a transversely disposed centrally located perforation above said slot at right angles thereto; of a reversible blade with longitudinal cutting edges beveled in reverse directions, either edge being adapted to be positioned in said slot, said blade having a central perforation therein, a bolt extending through the perforation of said supporting arm, one end of said bolt projecting out over said blade above the perforation therein, a blade retaining nut threaded on said projecting end of the bolt, and a peripheral radial stem on said nut to be received in the perforation of said blade, the inner end of said slot serving to limit the inward travel of the blade.

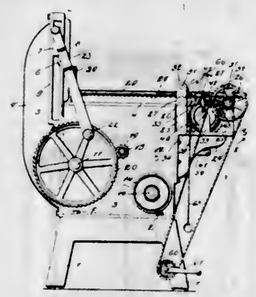
1,375,502. POPCORN HOLDER AND DISPLAY CABINET. FRANK R. GIDDINGS, Kalamazoo, Mich., assignor of one-half to Allan M. Giddings, Battle Creek, Mich. Filed Mar. 29, 1920. Serial No. 369,615. 5 Claims. (Cl. 34—21.)

1. A vertical cylindrical pop-corn tank having a window at one side, a hinged door opposite the window, vertical series of diametrically opposed brackets within the tank between its window and its door, circular shelves of foraminous material loosely disposed upon the said brackets, and lighting means within the tank and disposed in the lower portion thereof whereby the heat generated by this



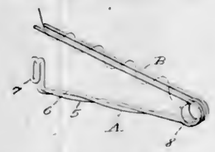
lighting means will circulate through the several shelves and the material supported thereby.

1,375,503. LYE-CRUSHING MACHINE. JOHN R. GILDA, St. Louis, Mo., assignor of one-half to Wm. Schield, St. Louis, Mo. Filed Nov. 1, 1918. Serial No. 260,652. 12 Claims. (Cl. 146—7.)



1. A material crushing machine comprising, in combination, a table, a reciprocatory cutting-blade, a ram for feeding material along the table to the blade, and mechanism for synchronously reciprocating the blade and effecting a progressive step-by-step movement of the ram, said mechanism including a rack-bar fixed to the ram, a driving gear meshing with the rack-bar, a pawl and ratchet having driving connection with the gear, pitmen pivotally connected to the cutting-blade, a rotary shaft, and operating connections between the shaft and both the pawl and pitmen.

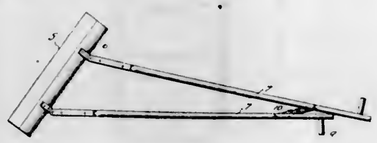
1,375,504. HAIR-CRIMPER. MYRTIE GRABLE, Nahcotta, Wash. Filed Oct. 27, 1919. Serial No. 333,589. 1 Claim. (Cl. 132—41.)



In a hair crimper of the class described, comprising a frame formed of a single length of wire bent to provide

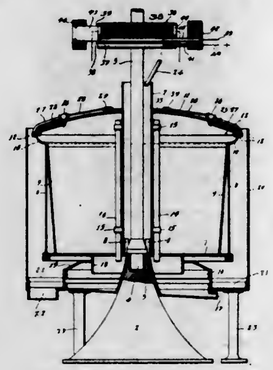
an intermediate twisted portion of the frame and opposed hook and coiled extremities thereto, and parallel spaced extensions of equal length projecting from the coils and formed by the ends of the wire to provide double prongs for detachable engagement in the hooked extremity and extending beyond the same, said prongs being disposed at the outer sides of the coils whereby the hair will be crimped when said prongs are retained by the hook.

1,375,505. STREET-CLEANING DEVICE. FRANK M. GRADY, Butte, Mont. Filed Jan. 4, 1921. Serial No. 434,935. 3 Claims. (Cl. 294—54.)



2. A cleaning device, including a cleaning element, a pair of handles each having one of its ends hingedly secured to said cleaning elements, and a link extending between said handles, and having its ends pivotally secured one to each of the same.

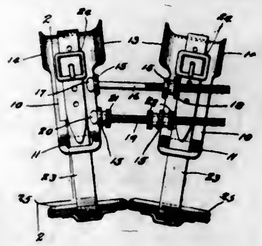
1,375,506. CENTRIFUGAL SEPARATOR. EDWIN D. GRAY, Richmond, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of California. Filed Sept. 2, 1920. Serial No. 407,792. 5 Claims. (Cl. 233—19.)



5. A centrifugal separator having a bowl provided with a peripheral pocket at its top and with a top forming a closed chamber, an axial inlet pipe communicating into said chamber, near the bottom thereof, a substantially axially outlet pipe leading from said chamber, from a point above the level of said pocket, the top of said bowl provided with an outlet near its outer edge, and an outlet chamber forming casing outside said bowl into w. ich said last named outlet communicates.

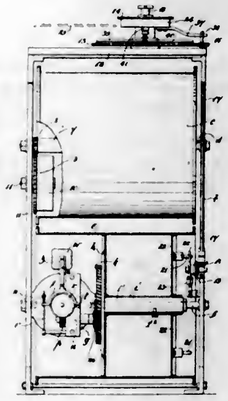
1,375,507. PATELLA-SPLINT. WILLIAM GRUNDMANN, St. Louis, Mo. Filed May 31, 1919. Serial No. 300,874. 2 Claims. (Cl. 128—83.)

1. A patella splint comprising a pair of strips of resilient material which are curved lengthwise and adapted to fit over the limb immediately above and below the knee joint, both edges of the central portion of each strip being curved upwardly, a flexible member associated with each strip and adapted to pass beneath the limb for retaining the strip in position for use, rods connecting the end portions of said strips, adjustable means on said rods for retaining said strips in spaced relationship, and ad-



justable means connecting said strips for determining the angular positions of said strips with respect to each other.

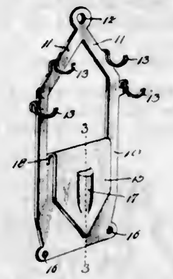
1,375,508. ADVERTISING AND OTHER DEVICE. HENRY KINGSFORD HARRIS, Westminster, London, England. Filed Aug. 14, 1917. Serial No. 186,207. 16 Claims. (Cl. 40—53.)



1. In an advertising device, a movable element adapted to be brought into any one of a series of positions, means for operating the same, and a setting and direction determining mechanism, said mechanism including a movable selector member adapted to be moved away from a fixed stop to determine the position to be taken by the movable element, a movable counter member displaceable with respect to the selector member and movable in unison with the said element, set in position by the selector member, means for throwing the operating means out of action when the element comes in position, and means for reversing the direction of movement of said element, whereby the element is moved in one direction when the selector member moves the greater distance and in the other direction when it moves a less distance.

1,375,509. ENVELOP-GRIP AND PEN OR PENCIL RACK. WILLIAM C. HEATLIE, Beverly, Mass. Filed July 20, 1920. Serial No. 397,757. 2 Claims. (Cl. 120—1.)

1. A letter grip body formed from a blank consisting of a single piece of metal having substantially elongated pentagonal form, two of the sides being perpendicular to the base and the remaining two sides converging upwardly therefrom, said blank being cut along lines parallel to the upper part of the perpendicular sides and to the converging sides to form a tab, said body being formed from the blank by pressing a cam groove into the tab



and then bending the tab outwardly at its attachment to the remainder of the body and then downward in spaced relation thereto whereby a ball may be held between the tab and the lower part of the body in said cam groove to constitute the movable part of the letter grip.

1,375,510. PROCESS OF MAKING PUNCTURE-CLOSING COMPOSITION. CHARLES O. HOPPING, Long Beach, Calif. Filed Nov. 22, 1919. Serial No. 339,947. 4 Claims. (Cl. 134—17.5.)

1. The process of making a puncture-closing composition which includes boiling a vegetable fiber pulp in water, and adding a mucilaginous substance to the pulp and water mixture while the mixture is hot.

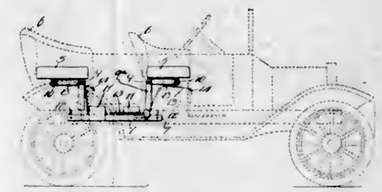
1,375,511. COMBINED HAT PROTECTOR AND ENVELOP. FRANK W. HOWARD, New York, and GEORGE B. CANNON, Jr., Brooklyn, N. Y. Filed Nov. 3, 1919. Serial No. 335,330. 4 Claims. (Cl. 2—108.)



1. A combined hat protector and covering for a raincoat consisting of an envelop having two opposite elongated side walls connected together along a folding edge and connected together adjacent their ends so as to permit the side walls to swing apart and assume a position forming a dihedral angle to each other at said edge, thereby enabling the envelop to cover one's hat, said side walls operating to fold together to cover a folded raincoat, and cords attached to the envelop for securing the same about the folded raincoat, and having means for attaching the same to opposite sides of the envelop, for securing the envelop in its open condition over one's hat.

1,375,512. SHOCK-ABSORBING MEANS FOR VEHICLES. HARRY HOWE, Stoughton, Wis. Filed Oct. 7, 1918. Serial No. 257,149. 8 Claims. (Cl. 155—9.)

1. The combination with an automobile having a movable seat, of a lever-like device fulcrumed between its ends on the automobile and adapted to support said seat at one side of its fulcrum, said device being counter-

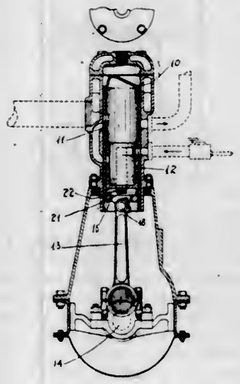


weighted at the other side of its fulcrum to counterbalance the weight of said seat and the occupant thereof.

1,375,513. REAGENT FOR LIQUID-BATTERY CELLS. DAVID L. HUMPHREY and CARL L. PITTMAN, Avoca, Tex. Filed Apr. 24, 1917. Serial No. 164,222. 1 Claim. (Cl. 23—13.)

As a new article of manufacture, blue stone for electric battery cells which consists of copper sulfate containing iron and mixed with uncrystallized earthy, calcareous residues and granules of brownish and greenish color, such product being largely, but not entirely soluble in water.

1,375,514. ENGINE. WILLIAM J. HUNTER, Denver, Colo., assignor to The Hunter Gas Engine and Development Company, a Corporation of Colorado. Filed Jan. 22, 1919. Serial No. 272,602. 1 Claim. (Cl. 123—65.)

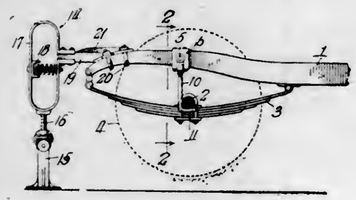


In an internal combustion engine having a cup piston, the interior walls of said cup being adapted for relative reciprocative movement with an interior member, means for preventing the rotation of said cup piston, and a screw cap for said cup having spaced depending ears adapted to mount a removable pitman.

1,375,515. JACKING ATTACHMENT FOR MOTOR-VEHICLES. JOSEPH H. IGO, Chicago Heights, Ill. Filed Apr. 26, 1920. Serial No. 376,502. 8 Claims. (Cl. 280—150.)

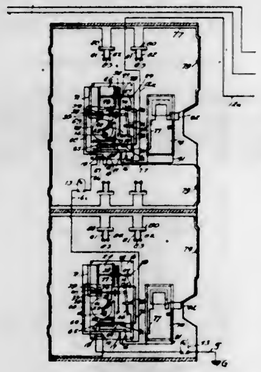
7. The combination with the frame of a vehicle and the rear axle beneath the same and a spring yieldably connecting the frame and axle together, of a coupling attachment comprising a clip adapted to be clamped to the frame above the axle and having a pin projecting laterally therefrom, a rod provided with an eye at its upper end to engage said pin and a hook at its lower end to engage said axle beneath the same to couple the frame and axle together to enable the axle to be lifted with the

frame, and a vertically arranged member beyond the rear end of the frame and rigidly secured thereto and ex-



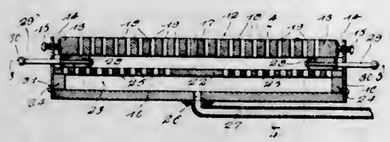
tending downward below the frame to a point enabling a lifting jack to be placed under and engage the same for lifting the frame and axle together.

1,375,516. ELECTRIC-ALARM SYSTEM. CHRISTIAN JOHN JENNE, San Francisco, Calif. Filed Nov. 2, 1916. Serial No. 129,122. 9 Claims. (Cl. 177—314.)



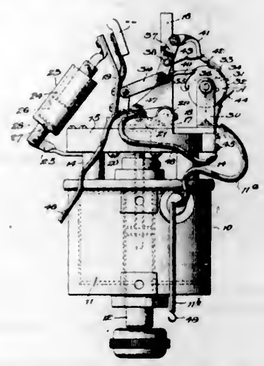
7. An electric signal system comprising a central receiving and testing station, an electric circuit extending therefrom, a house circuit, a magnet in parallel with the house circuit and both the latter circuits forming a part of the circuit extending to the central station, signal sending means, means whereby the magnet starts the operation of the signal sending means upon changes in the house circuit, means to thereupon cut the magnet out of the circuit and manual means to insert a balancing resistance to leave the line at the original total resistance.

1,375,517. SUCTION-BOX FOR PAPER-MAKING MACHINES. GEORGE SHEPHERD JOHNSON, Brainerd, Minn. Filed Apr. 19, 1920. Serial No. 375,049. 9 Claims. (Cl. 92—51.)



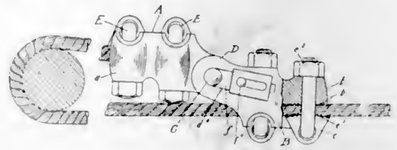
1. A suction box comprising a housing open at its upper end, a head closing the upper end of the housing and provided with transversely extending slots converging toward the center of the housing, a suction pipe entering the bottom of the housing at approximately the center thereof, a baffle plate in the housing intermediate its height and having its end portions perforated and its central portion above the suction pipe unperforated, and head blocks slidably mounted in the end portions of the housing between the baffle plate and the head of the housing for closing the openings in the end portions of the plate and housing.

1,375,518. CIRCUIT-RESTORING RELAY. CHARLES W. KAUTZ, Jr., Lancaster, Pa. Filed Jan. 27, 1919. Serial No. 273,346. 14 Claims. (Cl. 175—294.)



1. A circuit restoring device having switch contacts, a coil adapted when energized to close the contacts, and means in series with the coil and actuated by one of the contacts for permitting a predetermined number of actuations of the device.

1,375,519. CABLE-COUPLING. EDWARD O. KEATOR, Dayton, Ohio. Filed Aug. 11, 1919. Serial No. 316,800. 4 Claims. (Cl. 24—123.)



2. A cable-coupling comprising two clamps and a coupling, the coupling consisting of transversely slotted arms projecting from the clamps, a pin adapted to seat in the slots and a catch adapted to engage the pin.

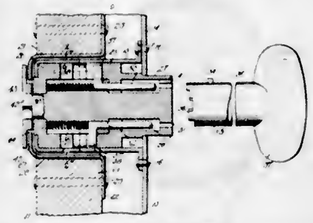
1,375,520. HOLDER FOR ADHESIVE BINDERS. LEE KINGSLEY, Syracuse, N. Y. Filed Dec. 29, 1919. Serial No. 348,103. 3 Claims. (Cl. 211—29.)



1. In a device of the character and for the purpose described, the combination with a receptacle having one end

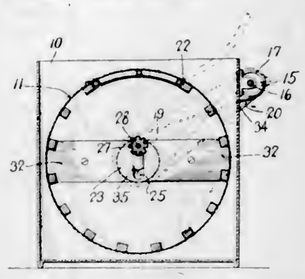
open, of a retaining member slidably supported within said receptacle and comprising a bottom portion, two oppositely positioned side members extending at substantially right angles from said bottom portion, and abutments formed on the inner faces of said side members adjacent their free ends and the open end of the receptacle.

1,375,521. LOCK. ANTHONY LASKY, Bridgeport, Conn. Filed Sept. 28, 1920. Serial No. 413,304. 5 Claims. (Cl. 70—115.)



1. In a lock, a lock casing, spaced members secured in the casing and provided at their spaced opposing faces with alined recesses, a spindle mounted to turn in the casing members, and having at its inner end a locking member, and a plurality of spring pressed and sliding tumblers mounted in the spindle, the said tumblers having angular members adapted to engage either of the recesses of the members to prevent turning of the spindle and to enter the space between the said members to permit turning of said spindle.

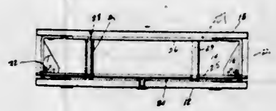
1,375,522. WASHING-MACHINE. FRANK LOMBARDI, New York, N. Y. Filed May 23, 1919. Serial No. 299,088. 1 Claim. (Cl. 68—18.)



The combination with a tank and a foraminous receptacle arranged within the tank for rotation, of an agitator disposed within the receptacle and including a shaft, hollow bushings secured to the ends of the receptacle and journaled in bearings in the adjacent walls of the tank, transverse reinforcing strips secured to the end walls of the receptacle, each strip being provided with a circular recess, a disk rotatably fitted in each recess and having a pocket formed in one face thereof, stub shafts projecting from said disks and journaled in said bushings, apertured lugs projecting from the ends of said agitator shaft and slidably fitted in the pockets of said disks, coiled springs arranged in said pockets to yieldingly support said shaft, a pin passed through said lugs and springs and secured to said disks, a plate covering said pockets of the disks and secured to the latter, and means for rotating said agitator in a direction reverse to the direction of said receptacle.

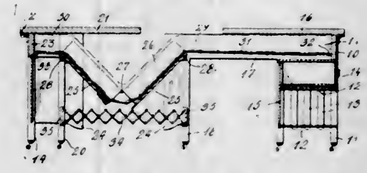
1,375,523. LOOSE-LEAF FILE. CHARLES F. MCBEE, Athens, Ohio, assignor to The McBee Binder Co., a Corporation of Ohio. Filed Sept. 25, 1919. Serial No. 326,119. 3 Claims. (Cl. 129—8.)

3. A loose leaf file comprising a back and upper and lower covers loosely secured together, each of said covers having a hinge near its inner end, a plate having orificed flanges on each of its ends, mounted on the upper surface of the lower cover and inside of the hinged portion thereof, said plate also having upwardly projecting posts secured thereto to engage perforations in the sheets to be bound, a wire spring overlying said plate, its ends projecting through the orifices in the flanges, said spring lying on the inner side of the upright posts, right angu-



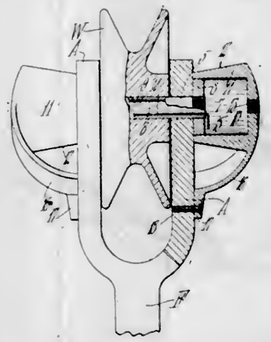
lar plates joining rigidly at right angles the back and the inner hinged portion of the upper cover, each of said plates being provided with recesses to receive the ends of the wire spring and thereby secure the back in right angular position with the inner hinged portion of the lower cover, a carrier plate provided with posts designed to engage their respective perforations in the sheets to be bound, substantially as shown and described.

1,375,524. COMBINED DESK, TABLE, AND BED. JESSE M. MCGHEE, Estancia, N. Mex. Filed Sept. 1, 1920. Serial No. 407,434. 3 Claims. (Cl. 5—17.)



1. A convertible desk-bed comprising a body portion having a flat top and end pedestals with leg space beneath the top and between the pedestals, said body portion being divided vertically through one of said pedestals and at one side of said leg space, and a foldable bed section housed in said body portion and adapted to fold down into said divided pedestal when the device is used as a desk.

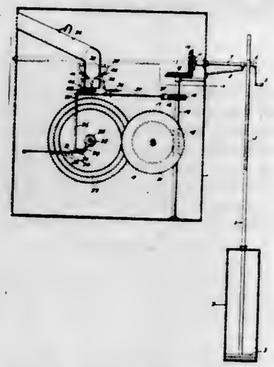
1,375,525. LUBRICATING MEANS FOR TROLLEY-WHEELS. ALLAN MCKINNON, Holyoke, Mass. Filed Aug. 11, 1919. Serial No. 316,572. 1 Claim. (Cl. 64—27.)



The combination with a trolley wheel and the two spaced supports between which it rotates, of a hollow

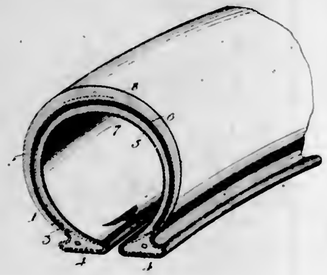
spindle for the wheel and passing through and beyond said supports, a screw thread on each protruding end of the spindle, a hollow lubrication reservoir threaded onto each end of the spindle to abut the adjacent supports, whereby the spindle is held against end play and the reservoirs are held to the supports, additional means for removably securing the reservoirs to their supports, and a passage in the hollow spindle to connect its interior to its external periphery.

1,375,526. GAS AND OIL VENDING DEVICE. HILLIARY B. MCREE, Palmetto, Fla. Filed Aug. 25, 1919. Serial No. 319,546. 3 Claims. (Cl. 194—70.)



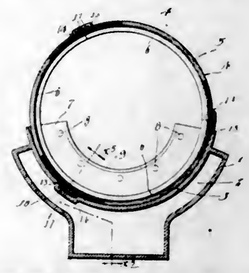
1. A device of the class described comprising liquid delivery means, manually operated means for actuating the same, a shaft rotatably connected with the manually operated means, locking means for said shaft, a pair of transversely arranged shafts, means for rotating one of said shafts by the first mentioned shaft, a gear on each of the transversely arranged shafts, one of said gears having sliding movement on its shaft and being normally out of mesh with the other gear, a cam member for moving said sliding gear into mesh with the other gear, coin controlled means for releasing the locking means and for actuating the cam member, such means including a pivoted lever actuated by the coin and connected with the cam member, a latch bar engaging said lever for holding the locking means in inoperative position and the gears in mesh and a projection on the sliding gear for moving the latch bar into releasing position when said gear makes a complete revolution.

1,375,527. TIRE-CASING. CHARLES WILLIAM MIEGEL, Jersey City, N. J. Filed Sept. 9, 1919. Serial No. 322,607. 1 Claim. (Cl. 152—13.)



A pneumatic tire casing consisting of inner and outer portions connected at their side edges and separated intermediate their side edges, each of said portions consisting of a layer of fabric material, and a layer of rubber, the layers of fabric material being inward, so that the rubber layer of the inner portion will contact with the fabric layer of the outer portion when the tire is deformed by pressure in use.

1,375,528. TIRE-RETREADING APPARATUS AND METHOD OF RETREADING TIRE-CASINGS. JACOB HENRY MILLER, San Luis Obispo, Calif. Filed Oct. 12, 1920. Serial No. 416,496. 10 Claims. (Cl. 18—18.)

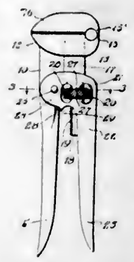


1. In a tire-retreading apparatus, the combination of a matrix formed in sections and at least a portion of the matrix forming a complete circle, and means to fasten the adjacent sections together.

1,375,529. COMPOUND FOR TREATMENT OF SMUT. JOHN P. MINNE, Cosmopolis, Wash. Filed Nov. 24, 1919. Serial No. 340,222. 1 Claim. (Cl. 167—6.)

A compound for the treatment of grain to prevent smut comprising three pounds of lime, one-half pound of salt, two pounds of ashes, two gallons of water thoroughly heated and commingled.

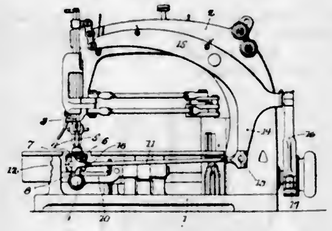
1,375,530. WRENCH. CHARLES G. MOLINE, Wyandotte, Mich. Filed Nov. 11, 1919. Serial No. 337,114. 2 Claims. (Cl. 81—85.)



1. A wrench of the class described comprising a stationary handle, a shank extending parallel with the handle and threaded at one end and having an outer jaw at the other end, a guide yoke secured to one end of the stationary handle and slidably receiving the shank, said yoke extended at one end into an inner jaw, a movable handle, spaced arms extending from the movable handle and pivoted to the stationary handle, and transversely apertured, and an adjusting nut engaging the threaded portion of the shank and extending through the openings in the arms and engaged by the contiguous walls of the same, whereby the shank is adjustable to control the space between the jaws and a positive grip produced by actuating the movable handle.

1,375,531. LOOPER-SUPPORTING MECHANISM FOR SEWING-MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 17, 1917. Serial No. 181,092. 8 Claims. (Cl. 112—197.)

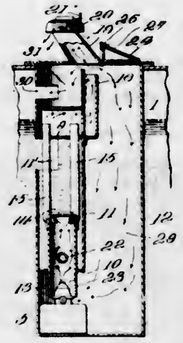
1. The combination with a pair of needles, of a looper coöperating with each needle, a looper-carrier for both loopers, and means whereby one of said loopers may be adjusted relative to the other of the looper-carrier and in a direction substantially at right angles to the longitudinal axis of the looper-carrier without disturbing its position relative to a horizontal line at the time of shedding its needle-thread loops.



1,375,532. FILTERING MATERIAL. ENRIQUE MÜLLER, El Paso, Tex. Filed Mar. 16, 1917. Serial No. 155,245. 10 Claims. (Cl. 210—203.)

6. In a process of preparing filtering material, treating ashes of vegetable matter with soluble silicate, washing, drying, comminuting the dried material, forming a plastic mass of the dried material with water and pulverized clay, molding the plastic mixture, drying and then baking same at a glowing heat.

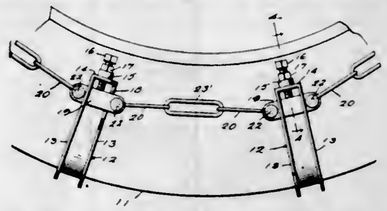
1,375,533. STOCK-FEEDING-TANK HEATER. BERT LEROY MYERS, Jackson, Mich. Filed Nov. 26, 1920. Serial No. 426,539. 5 Claims. (Cl. 126—360.)



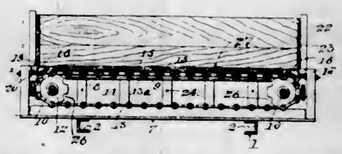
3. The combination of a stock feeding tank, a heater adapted to be immersed in said tank comprising a casing partitioned to form an intermediate water chamber, a lower chimney located beneath said chamber and extending upwardly thereinto, a heating drum arranged above said chamber, an upper chimney opening to the atmosphere, a connection between said drum and upper chimney, said lower chimney being formed within said chamber with a plurality of relatively small branch conduits discharging into said drum, and means for conducting fresh air through a body of heated air in the upper portion of said casing and thence into said lower chimney.

1,375,534. ANTISKID DEVICE FOR TIRES. CHARLES A. NETHERCUTT, Logansport, Ind. Filed July 26, 1920. Serial No. 399,064. 4 Claims. (Cl. 152—14.)

1. An anti-skid device of the character described comprising, a plurality of saddles to be arranged upon the tread of a tire, each saddle having longitudinal flanges provided near their ends with longitudinal slots, bar-links radially adjustable within the longitudinal slots, means to adjust each bar-link within said slots, and means connecting said bar-links.

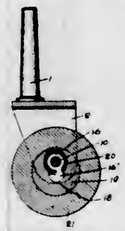


1,375,535. TRUCK. WALTER C. ORTGIER, Wichita Falls, Tex. Filed Dec. 22, 1919. Serial No. 346,722. 3 Claims. (Cl. 298—1.)



1. In a truck, the combination of a frame including two side bars extending substantially parallel with the longitudinal axis of the truck, a plurality of transverse girders resting upon and supported by the upper edges of said side bars, movable chains disposed in coöperating pairs, carried on said girders, floor boards between the girders and connecting the pairs of chains, extending substantially parallel with the side bars, and constituting a substantially horizontal floor for the truck, a removable side board for the truck, and means independent of the wheels of the truck for moving the chains to advance the floor toward the removable side board.

1,375,536. ADJUSTABLE CASTER. CHARLES W. OSTRANDER, Winsted, Conn. Filed Dec. 10, 1920. Serial No. 429,686. 7 Claims. (Cl. 16—164.)

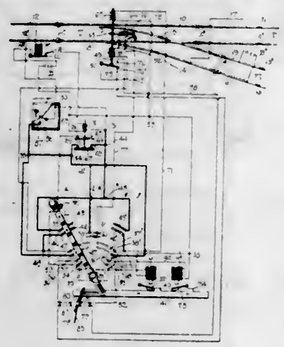


2. A caster of the character described comprising a casing having a pair of sides, a wheel arranged in said sides and an eccentrically mounted bearing member for each wheel arranged between said sides, a cam member rigidly connected with said sides and extending through the bearing member and means co-acting with the cam member and the bearing member for shifting the bearing member so as to vary the effective height of the caster.

1,375,537. SWITCH-OPERATING MECHANISM. CHARLES R. PEDDLE, Suffern, N. Y., and JAMES M. WALDRON, Highwood, N. J. Filed Oct. 4, 1919. Serial No. 328,478. 6 Claims. (Cl. 246—135.)

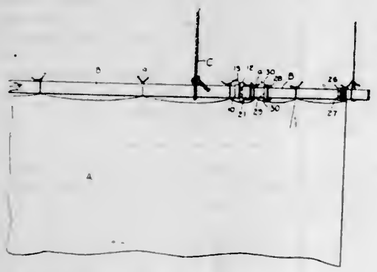
1. The combination with a railway switch, of electrical means for controlling the operation of the switch, a manually-movable part, a source of electrical energy, means

controlled by the movable part in circuit with the source for maintaining the switch-moving mechanism inoperative, means controlled by the moving part at a certain position of its movement controlling mechanism for releasing the



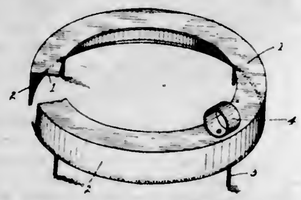
switch, means controlled by a further movement of the moving part for throwing the switch to its opposite limit, and means controlled by a train in block with the switch for throwing the moving part out of electrical control at any point in its movement.

1,375,538. ATTACHMENT FOR CYCLORAMIC-SCENERY BATTENS. ROBERT C. SCHEURER, West Hoboken, and FRED G. GREENBERG, Union Hill, N. J. Filed May 26, 1920. Serial No. 384,432. 11 Claims. (Cl. 46—70.)



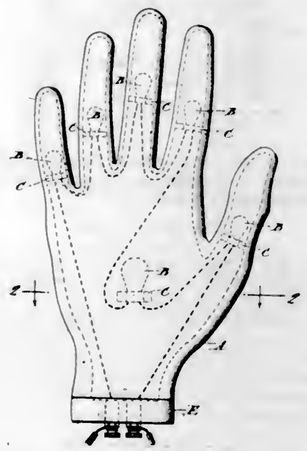
2. An attachment for cycloramic scenery battens, including an element having means to secure the same to a back batten, an element turnably mounted on the first element to swing vertically, and means carried by said turnable element and adapted to secure a side batten, said second-mentioned means being swingable laterally on the turnable element and being turnable with the latter about the first element.

1,375,539. PROTECTING-SHIELD FOR USE IN BAKING PASTRY. JENNIE SCOTT, St. Paul, Minn. Filed Oct. 2, 1920. Serial No. 414,178. 2 Claims. (Cl. 53—6.)



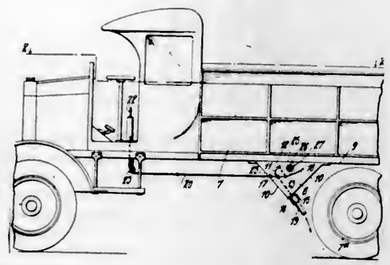
2. In a device of the class described, the combination with a pie plate, of a frame positioned so as to loosely surround the pie plate and formed with a wall extending a distance over the top and side thereof, and means for supporting it so positioned.

1,375,540. ELECTRIC SIGNAL FOR AUTOMOBILES AND OTHER VEHICLES. JOHN A. SMITH, Washington, D. C. Filed Oct. 3, 1918. Serial No. 256,712. 1 Claim. (Cl. 177—329.)



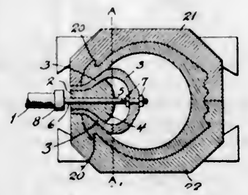
A signal of the class descibed comprising a hollow body formed of transparent material to simulate the appearance of a hand, a plurality of supports arranged one in each finger, the thumb and palm of the hand, an electric light bulb positioned in each support, a current conducting wire having connection with each bulb, terminal posts carried by the wrist portion of the hand connected with the ends of said wire and adapted to receive an electrical current from an outside source whereby the lights will clearly illuminate the entire hand, as and for the purpose set forth.

1,375,541. SAND-DISCHARGING DEVICE. FREDERICK G. TODT, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,693. 2 Claims. (Cl. 291—36.)



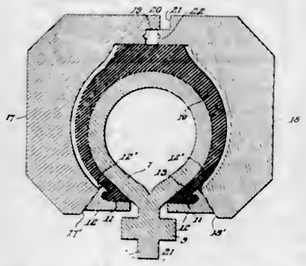
1. A device of the character described including a hopper having a downwardly tapering bottom, one portion of which slants rearwardly, said hopper having an outlet tube extending in a direction substantially in alinement with said slanting portion of the bottom; a crank shaft rotatably mounted in opposite sides of the hopper and being interrupted in its length between said sides to provide a crank adapted to swing in close proximity to said slanting portion of the bottom of the hopper; a rod pivotally connected to said crank and extending substantially in the direction of said slanting portion of the hopper bottom, said rod having a tapered valve on its lower end adapted to move within said tube when the crank shaft is rocked; an arm connected to said crank shaft and located outside of said hopper; and means for oscillating said arm whereby the crank shaft will be rocked to withdraw the larger portion of the valve from the tube; substantially as described.

1,375,542. VULCANIZING EQUIPMENT FOR VULCANIZING CASINGS FOR PNEUMATIC-TIRE TUBES. JOHN TRAUM, Coshocton, Ohio. Filed Aug. 9, 1920. Serial No. 402,173. 4 Claims. (Cl. 18—17.)



1. In vulcanizing equipment to be used in connection with a vertical vulcanizer having an interior pressure ram, and that is adapted to vulcanize casings for pneumatic tire tubes, the combination of a continuous metal ring, the conformation of its sides near the outer periphery conforming to the inner surface near the inner periphery of the casing to be vulcanized, an inwardly directed flange carried by and forming the inner periphery of the continuous metal ring, and a rubberized fabric or cord annular casing vulcanized to conform to the sides of the said inwardly directed flange and to encompass the outer periphery of the continuous metal ring so as to leave space between the inner surface of the said vulcanized casing and the surface of the outer periphery of the said continuous metal ring.

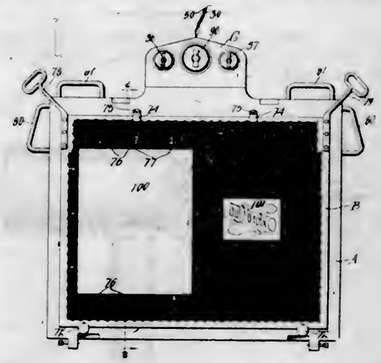
1,375,543. TIRE-MOLD. ELNO H. TRUMP, Barberton, Ohio. Filed Sept. 18, 1919. Serial No. 324,307. 12 Claims. (Cl. 18—42.)



1. A tire mold embodying a core, molding blocks positioned at opposite sides thereof, and tire stretching rings associated with the inner edges of the molding blocks, the engaging faces of the molding blocks and rings being beveled and arranged to cause the rings to be moved relative to the core flange.

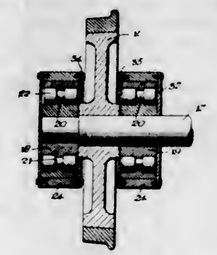
1,375,544. ELECTRIC EMBOSSING-PLATE HEATER. SIDNEY M. WEATHERLY and HOWARD J. STACH, Hartford, Conn.; said Stach assignor of his right to National Machine Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 16, 1918. Serial No. 250,175. 4 Claims. (Cl. 219—19.)

1. An embossing plate heater comprising a base, means for heating said base, supporting and positioning lugs on said base, a surface plate formed with angular notches in its edge to engage said positioning and supporting lugs,



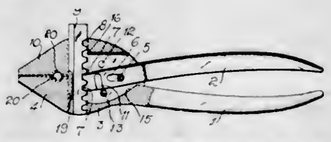
clamps for securing its upper edge to said heater base, and means for supporting and adjusting embossing dies on the surface plate, substantially as set forth.

1,375,545. WHEEL. GEORGE YATES, Chicago, Ill. Filed Apr. 7, 1920. Serial No. 371,868. 1 Claim. (Cl. 64—39.)



The combination with an axle, of a wheel having a hub mounted on the axle, spaced inner and outer annuli arranged on opposite sides of said hub and having their opposed sides provided with ribs, annular series of rollers arranged between said spaced inner and outer annuli and having annular grooves receiving said ribs, said outer annuli being formed in sections having their ends formed with interfitting lugs having registering openings, holding rings surrounding said outer annuli and provided with sections having their ends formed with lugs, said second named lugs being formed with registering openings, wedge-shaped keys inserted through said opening for connecting the said sections, the ends of said lugs being beveled, and inner and outer washers secured to said holding rings, one of said washers being provided with an opening snugly receiving said hub.

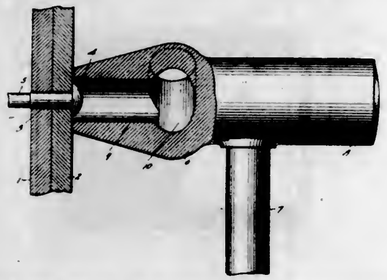
1,375,546. WRENCH. GEORGE W. ANSLEY, Long Beach, Calif. Filed June 10, 1920. Serial No. 388,012. 3 Claims. (Cl. 81—86.)



1. A wrench comprising a stationary jaw and a movable jaw, the latter carrying a rack bar, a handle carrying a head formed integral with said stationary jaw, and a lever having a toothed end engaging the teeth of said

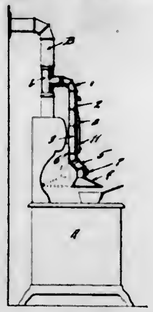
rack bar and provided with a longitudinally extending slot, and a fulcrum pin carried by said head and passing through said slot.

1,375,547. TOOL. BENJAMIN F. BAIRD, Hollidaysburg, Pa. Filed Apr. 14, 1920. Serial No. 373,758. 1 Claim. (Cl. 29—86.1.)



As a new article of manufacture, a tool comprising a handle, a sledge disposed at right angles to the handle and connected at its intermediate portion thereto, said sledge including at one end a solid striking portion, said sledge at its other end including a tapered head having a longitudinal rivet-receiving bore therein and having a transverse bore communicating with said longitudinal bore, said longitudinally bored end being unobstructed opposite said end and at the sides thereof to permit the tool to bear against a plate extending any distance beyond all sides of the tool.

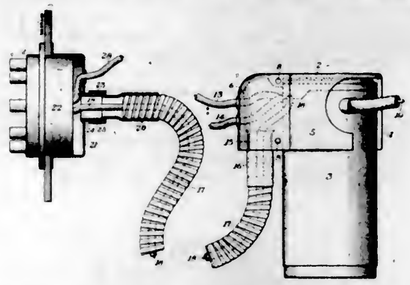
1,375,548. CONDUCTOR FOR DISPOSING OF FUMES ARISING FROM COOKING UTENSILS. JOHN J. BARNES, Henry, Ill. Filed Sept. 15, 1919. Serial No. 323,933. 1 Claim. (Cl. 126—301.)



A fume conductor of the character described comprising a mouth-piece, an upper pipe section, a lower pipe section telescopically fitted to said upper pipe section, one of said pipe sections having a rack bar fixed thereto, said rack bar having vertically extending parallel guards, the other of said pipe sections having a catch fixed thereto and engaging said rack bar between said guards whereby the sections are held in adjusted positions, said mouth-piece being eccentric to and pivotally connected to said lower pipe section at a point below said rack bar and catch, whereby the eccentric mouthpiece may be adjusted on its pivot while the upper and lower pipe sections are in different relative positions.

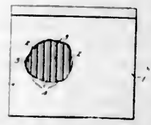
1,375,549. ARMOR FOR IGNITION SYSTEMS. ORANGE P. BARNES, Chicago, Ill., assignor, by mesne assignments, to National Motor Control Co., a Corporation of Delaware. Filed June 5, 1919. Serial No. 301,856. 5 Claims. (Cl. 123—198.)

1. The combination with an ignition system having a wire leading from one pole of a source of energy to one pole of a spark coil, of an incased switch connected to an intermediate portion of said wire, a cover for one of said poles, means for securing said cover in position



about said pole, and an armor connected to said switch casing and the cover inclosing that portion of the wire between the switch casing and the cover, substantially as described.

1,375,550. SEPARATOR FOR STORAGE BATTERIES. WILLIAM BEST, Kansas City, Mo. Filed Dec. 10, 1919. Serial No. 343,819. 4 Claims. (Cl. 204—29.)



3. A separator for storage batteries, composed of slate and having longitudinal grooves in its face.

1,375,551. MEANS FOR FACILITATING THE OPENING OF TINS. ALBERT BLANKS, London, England, assignor to The Nugget-Polish Co., Ltd., London, England. Filed Mar. 26, 1919. Serial No. 285,182. 1 Claim. (Cl. 220—42.)

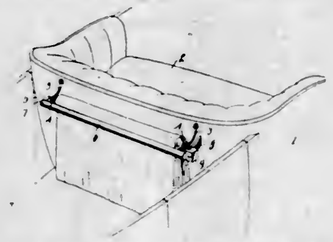


In a tin or like container having a mouth of smaller diameter than the body portion thereof and having a removable lid which has a top member and a depending flange adapted to close the mouth of the container in a substantially hermetical manner, the mouth portion being so formed as to provide an annular shoulder on the outer face of the body portion against which the lower edge of the lid abuts when in closed position, means whereby the lid while so closing the container may be tilted to a small extent relatively to the mouth of the container for the purpose of facilitating its removal, said means comprising a pair of oppositely disposed and inwardly projecting embossments formed on the depending flange of the lid and so located as to be above the edge of the mouth of the container when the lid is in normal closing position and adapted to engage and coöperate with the said edge and shoulder when the lid is tapped at a point between said embossments to tilt said lid and spread the depending flange, substantially as described.

1,375,552. SILVER-SOLDER. WILLIAM BOCCHETTI, Brooklyn, N. Y. Filed Feb. 10, 1920. Serial No. 357,726. 4 Claims. (Cl. 75—1.)

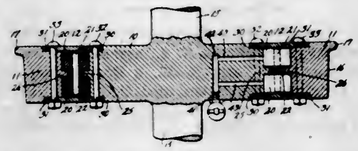
1. A silver solder containing silver 55 to 65%, copper 20 to 30%, zinc 10 to 20%, and arsenic trioxid.

1,375,553. LOCKING-RAIL FOR AUTOMOBILES. PIERRE BRAZEAU, Racine, Wis. Filed Oct. 4, 1920. Serial No. 414,611. 2 Claims. (Cl. 45—13.)



1. In a lap-robe holder, opposed clamping bars having opposed faces, and a strip of flexible material on one of the opposed faces said strip being secured at the middle and free at the sides, substantially as set forth.

1,375,554. ROLLER-BEARING CAR-WHEEL. WILEY B. BRIDGES, Texarkana, Ark. Filed Mar. 10, 1920. Serial No. 364,815. 2 Claims. (Cl. 64—62.)



1. A car wheel, comprising a fixed center provided on its peripheral face with an annular shoulder, a rim having a tread and flange and provided on its inner edge with an annular shoulder opposite the said center shoulder, pairs of rollers interposed between the said center and the said rim, the rollers of each pair being arranged on opposite sides of the said shoulders, shafts, one for each pair of rollers, and a spacing ring extending between the said shoulders and the rollers of each pair and carrying the said shafts.

1,375,555. AUTOMATIC FLUID-REGULATING DEVICE. WILLIAM E. BROWN, Ashtabula, Ohio, assignor of one-half to William C. Harvey, Akron, Ohio, and one-half to Henry Bertrand Perrin, Geneva, Ohio. Filed Jan. 8, 1920. Serial No. 350,080. 7 Claims. (Cl. 251—123.)



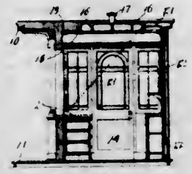
1. In a device for controlling the flow of fluid through a passage, two plates pivotally supported, elastic means to hold said plates against fluid-pressure, said device being attachable to the interior of a fluid-passage in such relation that said plates extend from their pivotal support toward opposite sides of the passage, one of said plates having a greater area between its outer end and its pivotal support than the area of the similar part of the other plate, whereby a greater fluid-pressure is exerted on one of said plates than on the other.

1,375,556. VEHICLE-BODY SUPPORT. CHARLES E. BURNETT, Wolcott, N. Y. Filed Jan. 16, 1920. Serial No. 351,880. 6 Claims. (Cl. 267—19.)



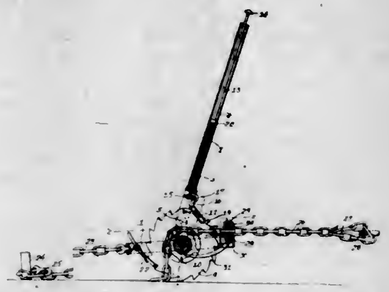
1. The combination with a vehicle body and axle, of a pair of leaf springs secured at their outer ends to said body and extending toward each other, a pair of shackles movable about a common axis intermediate their ends and each pivoted at its upper end to the inner end of one of said leaf springs, rocking members carried by said axle, and lever springs disposed beneath said leaf springs and fulcrumed intermediate their ends to said body, each of such lever springs having pivotal connection at its outer end with one of said rocking members and at its inner end with the lower end of one of said shackles, the said shackles connecting each lever spring with its opposite leaf spring.

1,375,557. BOOTH. PAUL M. BUSICK, Memphis, Tenn. Filed Aug. 31, 1920. Serial No. 407,179. 4 Claims. (Cl. 20—1.)



1. A booth of the character described provided with lights in the ceiling thereof and a hinged closure for the front thereof adapted, when raised, to cover said lights and serve as a light diffuser, substantially as set forth.

1,375,558. RATCHET-CHAIN BLOCK. WILLIAM RICHARDSON BUTNER, Yerington, Nev. Filed Sept. 3, 1920. Serial No. 408,107. 4 Claims. (Cl. 254—164.)

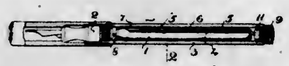


1. A ratchet chain block, comprising a frame, a lever pivotally connected to the frame, a wheel having rotary mounting in the frame and comprising a central sprocket wheel and ratchet wheels at opposite sides thereof, a pawl pivotally connected to the lever and engaging both ratchet wheels, a member pivotally connected to the lever engaging the intermediate portion of the pawl, and a spring pressed rod carried by the lever and controlling the operation of said member.

1,375,559. FOUNTAIN AND OTHER RESERVOIR-PEN. DUNCAN CAMERON, Edinburgh, Scotland. Filed Oct. 29, 1920. Serial No. 420,450. 2 Claims. (Cl. 120—46A.)

2. Fountain and other reservoir pens of the self-filling type comprising a collapsible ink container, a pressure

bar adapted to press upon the said container, an operating bar jointed to the said pressure bar by means of parallel motion links and also connected to a plug member



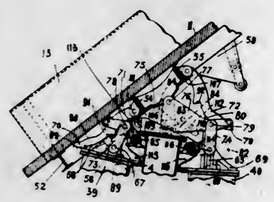
adapted to fit into the end of the pen-barrel, and means for preventing the pressure bar from moving endwise when the said operating bar is operated.

1,375,560. GERMICIDE-BRUSH. DAVID NEWTON EMANUEL CAMPBELL, Baltimore, Md. Filed Dec. 13, 1917. Serial No. 206,981. 1 Claim. (Cl. 15—51.)



A brush of the class specified, comprising a hollow body forming a tank to receive a liquid and provided with a handle and filling means, the bottom of the body having a plurality of outlet openings, a brush member having a flat plate provided with an upstanding flange for tight jointure with the body bottom which is located above and spaced from the brush member plate, the plate of said brush member having a plurality of openings therein in alinement with the openings of the body bottom, brush tufts inserted upwardly through the openings of the said plate and having their upper terminals partially extending through the openings in the body bottom, and a horizontally disposed securing wire carried by the brush member and inserted through the brush tufts and dipped downwardly toward and into the openings of the brush member plate to positively hold the brush tufts in place.

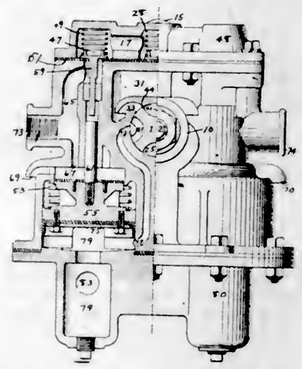
1,375,561. DUMP-CAR. ROY E. CARTZDAFNER, Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 27, 1916. Serial No. 128,110. 19 Claims. (Cl. 105—271.)



1. In apparatus of the class described, in combination, an underframe, a car body pivotally mounted thereon, a device resisting by compression the movement of the car body from normal position, means for unlocking said device and swinging the car into dumping position, and means for automatically restoring said device to locking position during the righting movement of the car.

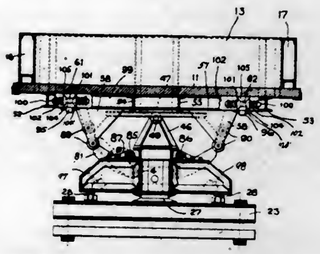
1,375,562. VALVE-MECHANISM. ROY E. CARTZDAFNER and HORACE A. KETCHAM, Passaic, N. J., assignors, by mesne assignments, to Magor Car Corporation. Filed Oct. 28, 1916. Serial No. 128,349. 11 Claims. (Cl. 138—14.)

1. In apparatus of the class described, in combination, a distributing member having a neutral and an operating position, a relay energized by fluid passing from a source of pressure through said member to said relay, means automatically cutting off said member from said source of pressure when said member is in neutral position, a work



circuit energized from said source through said relay when the relay is energized, and connections for automatically exhausting said work circuit when the relay is deënergized.

1,375,563. SHOCK-ABSORBER FOR DUMP-CARS. ROY E. CARTZDAFNER, Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y., a Corporation of New York. Original application filed Oct. 27, 1916, Serial 128,110. Divided and this application filed Nov. 23, 1918. Serial No. 263,825. 1 Claim. (Cl. 105—270.)

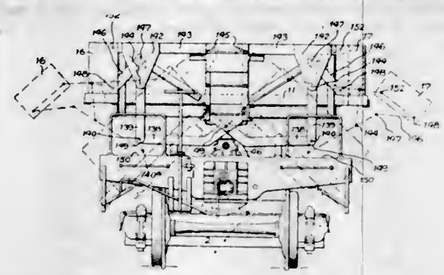


A shock absorber for tilting body dump cars combining a wedge adapted to be secured to the tilting car body, a second wedge facing the first wedge limited in its movement away from the first wedge and having a shank projecting downwardly to engage an abutment fixed on the under-frame of the car as the car reaches dumping position and arranged to be forced toward said first wedge by said abutment, a transverse floating pin between said wedge members, a pair of opposed wedges slidably mounted on said pin and frictionally engaging the first and second wedges and compression springs between said wedges and the ends of the pin substantially as described.

1,375,564. DUMP-CAR. ROY E. CARTZDAFNER, Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y., a Corporation of New York. Original application filed Oct. 27, 1916, Serial No. 128,110. Divided and this application filed Nov. 23, 1918. Serial No. 263,826. 1 Claim. (Cl. 105—277.)

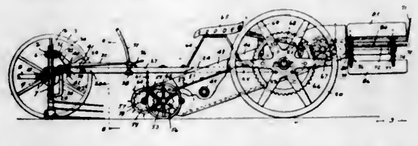
In apparatus of the character described, in combination, a car body provided with a movable door, an under-frame on which the body is pivotally mounted, a link mechanism controlling the movement of the door comprising a straight compression dumping bar, a link pivoted coaxially with the axis of the car body and connected to the lower end of the dumping bar, a top bar pivotally connected at one end to the car body and at the other end to the upper portion of the door, a link connecting the top of the dumping bar

and the lower portion of the door, and a gusset plate rigidly secured to the top bar and depending therefrom



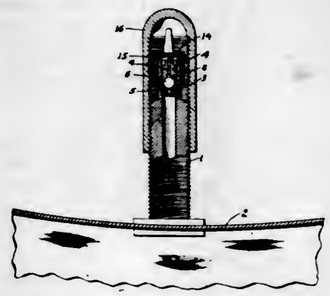
to the lower end of which the dumping bar is pivotally connected at a point intermediate its ends, substantially as and for the purpose described.

1,375,565. BEAN-HARVESTER. GUY B. CHAMBERLIN, Van Nuys, Calif., assignor of one-half to Jerry L. Hall, Hynes, Calif. Filed May 19, 1919. Serial No. 298,179. 5 Claims. (Cl. 56—193.)



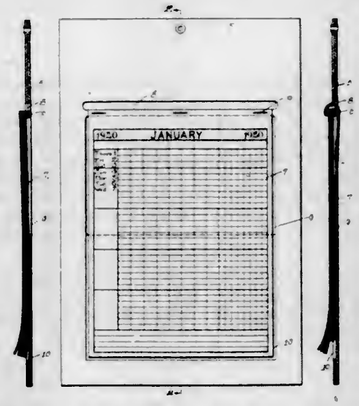
1. A bean harvester comprising a suitable traction mechanism, an endless apron pivotally and operatively mounted upon the traction mechanism, a rotary rake operatively mounted with relation to the apron, a stationary platform at the opposite end of the apron, and dumping means upon the platform operating transversely thereof.

1,375,566. VALVE. CHARLES A. CHAMPLIN, Hope, Ark. Filed Jan. 21, 1919. Serial No. 272,244. 3 Claims. (Cl. 152—12.)



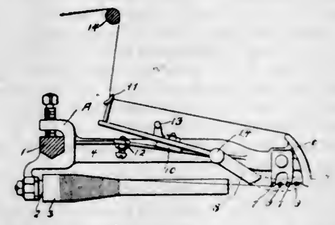
3. In an inflation valve, the combination with a standard valve stem adapted to be permanently secured to the article to be inflated and having an exteriorly threaded reduced portion at its upper end adapted to receive a closing cap, the said reduced portion also being interiorly screwthreaded to a depth substantially equal to the depth of said reduced portion, of a self-contained assembled valve structure adapted to be bodily fitted in and removed from the upper end of the standard valve stem, and comprising an exteriorly threaded core of uniform diameter throughout its entire length and of substantially the same depth as the interiorly threaded reduced portion of said stem and provided in its inner end with an enlarged recess terminating in a curved valve seat, a bore of smaller diameter extending from said recess to the onter end of said core, and a counter-sink or chamber at the inner end of said smaller bore, the said enlarged recess being screwthreaded at its lower end, an independent headed valve-operating rod adapted to be fitted in the lower end of said core and extendnig through the reduced bore therein with its head fitting in the countersink of said bore and its upper end adapted to be projected beyond the upper end of the core by the pressure of the valve, a ball valve loosely fitted in the enlarged recess in said core and adapted to engage the curved seat therein under pressure, and a perforated disk threaded wholly within the lower end of said recess to maintain the parts of the valve in assembled condition in said core, the said core having a wrench receiving upper end entering flush within the upper end of the standard valve stem, whereby the said valve in its assembled condition may readily be fitted in and removed from the standard valve stem.

1,375,567. CALENDAR. JOHN AUGUST CHRYSANDER, New York, N. Y. Filed Aug. 27, 1920. Serial No. 406,266. 1 Claim. (Cl. 40—119.)



A pad, comprising a backing having a transverse slot a short distance from its upper end, an opening below and adjacent to the slot, and a recess in its front face, said recess extending from the lower edge of the opening to within a short distance of the bottom of backing, and a plurality of superposed leaves secured to the front face of the portion of the backing between the slot and opening, whereby the leaves can be passed through the slot to the rear of the backing and then through the opening to lie in recess in the front face of the backing.

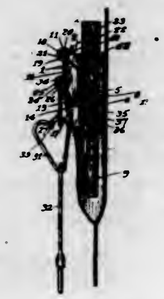
1,375,568. WINDING-MACHINE. JOHN V. CUNNIFF, Fall River, Mass., assignor of one-half to Patten Bros., Inc., Fall River, Mass. Filed Feb. 10, 1920. Serial No. 357,555. 7 Claims. (Cl. 242—154.)



1. In a winding machine, a bracket for attachment to the spooling bar having a main arm formed with a curved friction plate, a bobbin spindle carried by the bracket, an

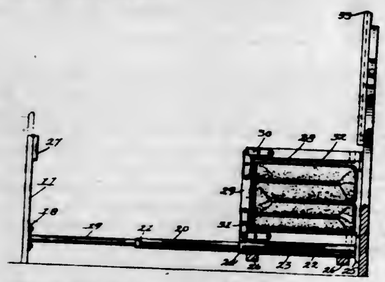
arm pivoted to the main arm and having a thread eye at one end, a weight adjustable on the pivoted arm, stops for the pivoted arm borne by the main arm, a plate on the main arm having spaced prongs and prongs carried by the pivoted arm and arranged to alternate with the prongs of the plate.

1,375,569. COMBINATION-HOLDER. HYLAND L. CUSICK, Pittsburgh, Pa. Filed May 3, 1920. Serial No. 378,713. 8 Claims. (Cl. 24—3.)



1. A combination article holder comprising a supporting clasp having an inner clasp plate, a labyrinth slot formed in the wall of said plate, an outer bent plate having a stud formed thereon, and coacting with said inner plate to secure the supporting clasp to the wall of a garment pocket, a front plate having a labyrinth slot slidably engaging under the head of the outer plate stud, and a pocket-book clasp having a stud engaging in the labyrinth slot formed in the wall of the inner clasp plate.

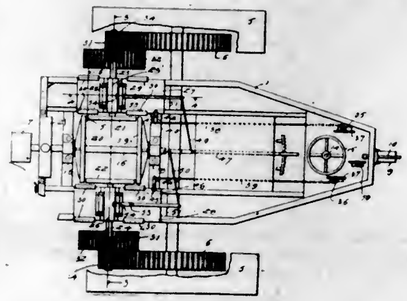
1,375,570. COMBINATION FURNITURE. ANTONI DANCIEWICZ and WILLIAM R. WHITAKER, Ludington, Mich. Filed June 24, 1920. Serial No. 391,434. 1 Claim. (Cl. 5—34.)



A combination dresser and folding bed of the character described, comprising in combination with the movable front wall of said dresser a support for a spring frame and mattress formed in three hingedly connected parts, said support composed of three slidably engaged slotted bars, pins on the inner ends of two of said bars adapted to slide within the slot of the next adjoining bar for limiting the relative sliding motions of the bars, supporting slats forming the bottom of said dresser for said spring and mattress support when in non-extended position, a top for said dresser to cover said parts in their non-extended position and adapted to engage the front face of the rear wall of the dresser in extended position of the parts to form a bed.

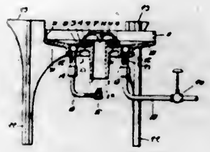
1,375,571. TRACTOR. ARTHUR DAVIS, Livingston, Ill. Filed Aug. 6, 1920. Serial No. 401,687. 3 Claims. (Cl. 180—17.)

1. A tractor including a frame and a power source, a front axle secured to said frame, drive wheels journaled on said axle, a steering wheel supporting the rear end of the frame, a drive shaft journaled to the frame and connected to the power source, spaced disks secured to said drive shaft, driven shafts mounted on said frame for



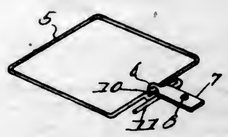
movement longitudinally and transversely of said frame, disks carried by said driven shafts and positioned between the first named disks, and means connecting the driven shafts to the drive wheels.

1,375,572. GAS RING OR BURNER. SYDNEY JAMES WALLACE DAVIDSON, Auckland, New Zealand. Filed Mar. 29, 1920. Serial No. 369,733. 7 Claims. (Cl. 158—69.)



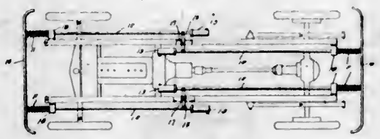
4. A device for the purpose set forth comprising a body portion with a central tube projecting vertically therethrough; a ring with cross grooves in its lower edge and an internal flange around its upper edge, sitting within a flange on said body portion and around said tube; and a cap with cross grooves in its lower edge and an inverted cone on its under surface, recessed in said ring.

1,375,573. CHAIR ATTACHMENT. LITTLE D. DENNIS, Philadelphia, Pa. Filed July 18, 1919, Serial No. 311,791. Renewed Feb. 11, 1921. Serial No. 444,263. 1 Claim. (Cl. 248—20.)



A supporting frame comprising a wire shaped to conform to the cross sectional contour of the receptacle it is designed to support, one end of the wire being twisted and extended outwardly substantially at right angles and flattened to provide an attaching arm, the other end of the wire being offset outwardly and then folded upon itself and positioned below the first named end to form an abutment to engage a suitable base or support.

1,375,574. AUTOMOBILE-FENDER. GEORGE W. DODSON, Pittsburg, Tex. Filed Dec. 7, 1920. Serial No. 428,962. 3 Claims. (Cl. 293—55.)



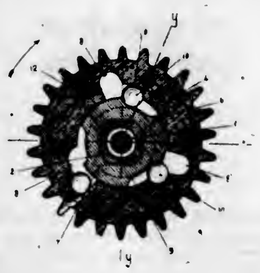
2. A fender for motor cars having front and rear fender bars provided with opposed cushioning springs and equalizers having rockers with which said fender bars are mutually connected, and dash pot cushioning means.

1,375,575. FRAMEWORK KNITTED FABRIC. EMIL ALBERT DRECHSEL, Gornsdorf, Germany, assignor to the Firm of Albin Drechsel Sohne, Gornsdorf, Germany. Filed Sept. 22, 1916. Serial No. 121,663. 6 Claims. (Cl. 66—4.)



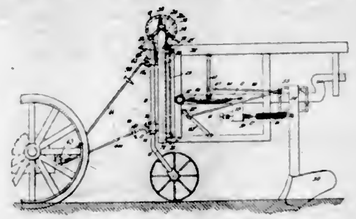
2. In the manufacture of frame work knitted fancy fabrics, the method of producing figures, consisting in laterally shifting within a course the loops not contributing to the formation of the figure to empty needle-hooks disposed between adjacent portions of the figure.

1,375,576. AUTOMATIC CLUTCH. LUIGI DUCA, Turin, Italy, assignor to Societa Anonima Manifattura Luigi Duca, Busta Arsizio, Italy, a Company of Italy. Filed Dec. 26, 1919. Serial No. 347,294. 2 Claims. (Cl. 192—44.)



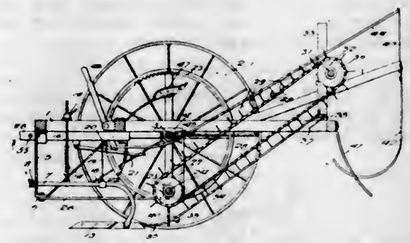
1. An automatic clutch, comprising concentric driving and driven members having confronting annular rims which are formed with coöperating recesses; and a locking element associated with each pair of coöperating recesses; each recess in the driving member having a body portion, the surface of which is concentric with the axis of the driving member, and arcuate end portions whose radii of curvature are equal to the radius of the associated locking element; and each recess in the driven member having an arcuate portion whose radius of curvature is equal to the radius of the locking element, and an adjacent portion whose depth is greater than the diameter of said locking element.

1,375,577. MOUNT FOR PLOWS AND OTHER TOOLS. ELON DUNLAP, Diamond Springs, Calif. Filed July 19, 1920. Serial No. 397,163. 10 Claims. (Cl. 97—7.)



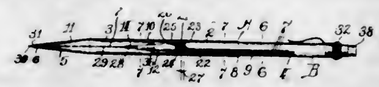
1. In a mount for plows, a caster, a post mounted on the caster, a plow frame pivoted on a vertical axis to the post, draft means connected with the caster and means to adjust the draft vertically on the caster.

1,375,578. PEANUT-HARVESTING MACHINE. JOSEPH PASCHAL FIELDS, Attapulgus, Ga. Filed July 18, 1918. Serial No. 245,506. 5 Claims. (Cl. 55—138.)



1. In a peanut harvesting machine, a supporting frame, beams adjustably supported from said frame, an earth working element adjustably connected to said beams, a plurality of rods connected at their forward ends to said earth working means and extending rearwardly, means for slidably coupling said rods at their rear ends to said frame, and conveyer means operating over said rods.

1,375,579. PENCIL. HOWARD L. FISCHER and FRANK J. KRISTOFEK, St. Paul, Minn. Filed Sept. 7, 1918. Serial No. 254,522. 2 Claims. (Cl. 120—17.)

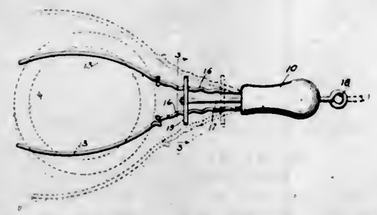


1. A pencil having its body formed of two thin walled telescoping tubular members of similar transverse formation throughout the major part of their telescopic length each member having a thin tubular wall throughout its length, a lead holding means resiliently connected to the inner end of the rear member for holding a marking lead to project through the forward member in writing position and frictional means formed by distorting the undivided inner end of the forward member to engage the uniform smooth outer surface of the rear member to hold said members frictionally together with the outer contour of said pencil body symmetrical throughout its length.

1,375,580. PLATE-LIFTER. THOMAS FISHER, Kearney, N. J. Filed Sept. 14, 1917. Serial No. 191,460. 2 Claims. (Cl. 294—33.)

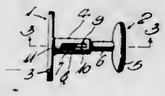
1. A plate lifter comprising a single length of resilient material bent upon itself to provide a pair of gripping arms, crimped portions adjacent the connected extremities of said arms, and a slide for effecting the relative adjust-

ment of the arms and also constituting a handle, said slide being provided with longitudinally arranged slotted portions forming guides for the reception of the arms and transversely disposed devices arranged in said slot portions for retaining the arms therein, said devices also being adapted to co-act with the crimped portions of the arms for maintaining the adjustment of the same.



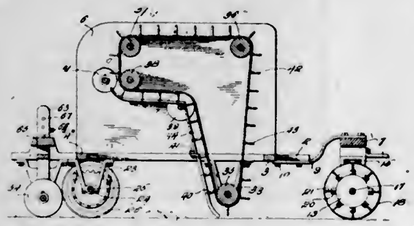
2. In a device of the class described, the combination of a single length of resilient material bent so as to form a pair of arms and a manipulative element and provided with a plurality of crimped portions, of a member comprising slots cöoperative with said arms and movable relatively to said manipulative element, and means for retaining said arms in said slots and coöperative with said crimped portions to prevent relative movement of said manipulative element and said member.

1,375,581. CUFF-LINK. JOSEPH DORILE FONTAINE, North Attleboro, Mass. Filed Jan. 4, 1921. Serial No. 434,965. 1 Claim. (Cl. 24—102.)



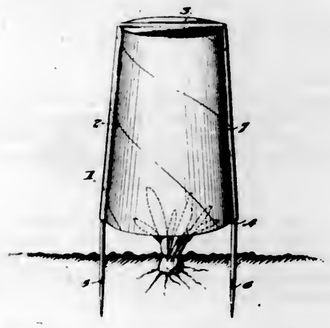
A cuff-link comprising a relatively large flat head including an integral laterally extending hollow stem having a slot formed in one side, said slot being closed at its end and reduced in width at its outer end to form a notch, a second and smaller head including a lateral shank telescoping into said stem, said shank carrying a lateral locking lug slidable in said slot and receivable in said notch to prevent relative rotation of the heads and to permanently connect the heads together, and a coiled spring arranged in said stem and bearing against the free end of the shank to retain the lug in the notch and to prevent relative rotary or sliding movement of the stem and shank.

1,375,582. STALK-CUTTING MACHINE. ERNEST S. FORNEY, Fullerton, Nebr. Filed Oct. 7, 1920. Serial No. 415,400. 5 Claims. (Cl. 55—118.)



1. In a machine of the class described, a wheel supported frame, means carried at the front of the machine for cutting down a plurality of rows of corn stalks, a rake positioned rearwardly of the stalk cutting means, rollers carried by the frame and an endless belt trained over said rollers coöperating with said rake for conveying the stalks, a plurality of driven saws also coöperating with said endless conveyer for cutting the stalks into short lengths, means for driving the said conveyer and saws from the ground supporting wheels, and adjustable disk elements supported by the rear of the frame.

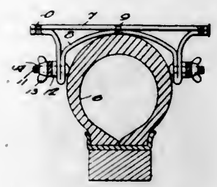
1,375,583. PLANT-PROTECTOR. ROBERT B. FAYE, Pueblo, Colo. Filed June 28, 1920. Serial No. 392,273. 4 Claims. (Cl. 47—22.)



1. A plant protector including an elongated body portion closed at one end and open at the other for placement over a plant, anchor sprags embedded in the material of the body portion and extending beyond the open end thereof.

3. A plant protector including an elongated body portion closed at one end and open at the other for placement over a plant, a substantially U-shaped anchor having its ends formed as anchor sprags fitted over the closed end of said body portion with its legs received along the side wall thereof and the anchor sprags projecting beyond the open end, and an outer covering secured upon said body portion over said anchor to retain the same in place.

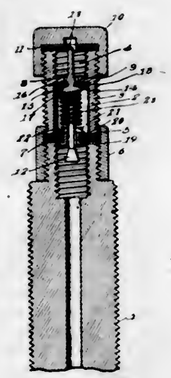
1,375,584. DETACHABLE TRACTION-TREAD. PAUL E. GERO, Manistique, Mich. Filed Mar. 28, 1919. Serial No. 285,810. 1 Claim. (Cl. 152—16.)



A detachable traction tread for vehicle tires comprising a tread plate adapted to span a tire tread and having an inverted U-shaped tire embracing retaining member secured to the inner face of said plate, the legs of said member being adapted to straddle and extend down over the sides of the tire, said legs being folded back upon themselves with their terminals curved outwardly and secured to said tread plate, and means extended through the folded portion of said legs for attaching the tread to a tire.

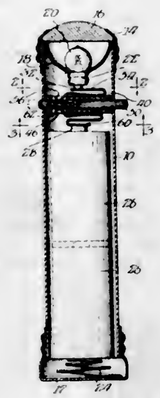
1,375,585. VALVE. WILLIAM GOODWIN and MARY GOODWIN, Peterboro, Ontario, Canada. Filed Feb. 10, 1920. Serial No. 357,662. 2 Claims. (Cl. 152—12.)

1. In a valve, the combination of a casing section, a coupling nut swiveled on the inner end of said casing section, an annular washer seated in the coupling nut with its outer edge portion removably held between the same and the casing section, a thimble having a circumferential groove receiving the inner edge portion of said washer and also having a central opening and an outwardly tapered outer portion and a slot in the latter, a spindle having an enlargement at its inner end and an enlarge-



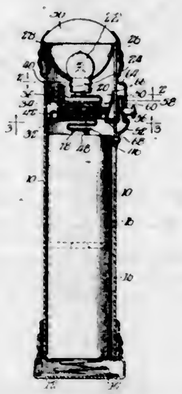
ment at an intermediate point of its length, a spring surrounding the spindle and interposed between the thimble and said intermediate enlargement of the spindle, and packing about the spindle and on said enlargement and bearing against the casing section.

1,375,586. POCKET HAND-LAMP. JOHN GRAVES, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Nov. 8, 1919. Serial No. 336,610. 7 Claims. (Cl. 240—8.5.)



4. A device of the class described, the combination of a suitable case containing a battery and an electric lamp each having two terminals, means connecting one terminal of the battery with one terminal of the lamp, the other remaining terminals being in proximity to each other, an insulating plate between the last mentioned terminals of the lamp and battery, switch members on opposite sides of said insulating plate, contacting respectively the adjacent lamp and battery terminal, there being a recess formed in the insulating plate through which said switch members may be connected together and a member reciprocatable in proximity to the plate and across the case carrying a conductor member adapted in one position of said reciprocatable member to connect said contacts and in another position of said reciprocatable member to be out of contact.

1,375,587. POCKET HAND-LAMP. JOHN GRAVES, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Nov. 10, 1919. Serial No. 336,940. 11 Claims. (Cl. 240—8.5.)

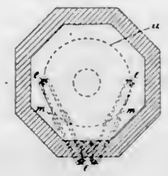


1. In mechanism of the class described, a case, a transversely perforated partition across the case, normally separated electric contact members entering said perforation from opposite sides of the partition, and a plunger mounted in an opening in the partition and reciprocatable across the case to force one contact member into engagement with the other.

1,375,588. EXPLOSIVE. BIRGER FJELD HALVORSEN, Christiania, Norway. Filed Dec. 4, 1919. Serial No. 342,518. 3 Claims. (Cl. 52—5.)

1. As a new article of manufacture, a commercial explosive comprising an explosive nitroderivative of urea.

1,375,589. APPLIANCE FOR CASTING METAL INGOTS INTO MOLDS. HAROLD HERON HOSACK, Twickenham, England. Filed Aug. 28, 1919. Serial No. 320,422. 2 Claims. (Cl. 22—79.)

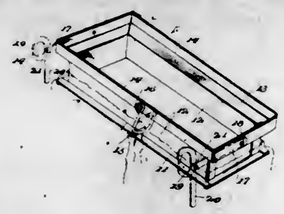


1. The herein described method of casting metal from a ladle, consisting in delivering the metal from said ladle into a pilot ladle counterbalanced to maintain said pilot ladle floating on the surface of the metal rising in the mold, whereby to maintain the pilot ladle constantly at the level of the rising metal in the mold to deliver the metal from the pilot ladle at or near the surface of the metal in the mold.

1,375,590. BAG-HOLDER. EARL W. HURLBUTT, Lima, Ohio. Filed Oct. 5, 1920. Serial No. 414,858. 3 Claims. (Cl. 83—26.)

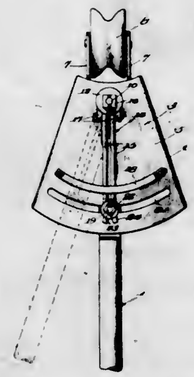
2. A bag holder having an intermediae upstanding wall, a downwardly and outwardly flaring flange at the lower edge of said wall, an upwardly and outwardly flaring flange at the upper edge of said wall, and an upstanding

edge portion at the outer edge of said upper flange, in combination with a holding pin projecting from the



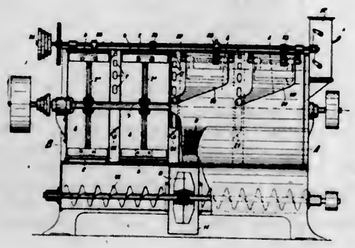
upstanding wall and a hook member coöperating with said pin and pivotally supported on the upstanding edge of the holder.

1,375,591. TROLLEY. LUDWIG W. KAEMPF, Fort Scott, Kans. Filed Feb. 24, 1920. Serial No. 361,034. 3 Claims. (Cl. 191—59.)



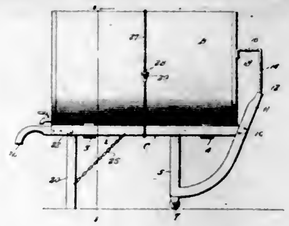
1. In a device of the class described, the combination with a pole or the like, of a head mounted thereon for transverse oscillatory movement, a contact element carried by the head, and a pair of spring legs for resisting movement of the head in opposite directions.

1,375,592. MACHINE FOR SHELLING AND POLISHING GRAIN AND THE LIKE. LEOPOLD KASPAR, Gross-Senitz, Czecho-Slovakia. Filed Nov. 6, 1920. Serial No. 422,342. 6 Claims. (Cl. 83—30.)



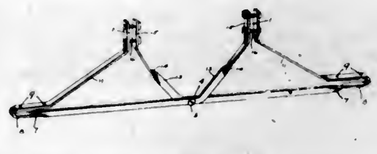
1. A machine for shelling, polishing and the like treatment of grain and the like, comprising a plurality of shelling chambers adapted to be traversed in succession by the material to be shelled, the several shelling chambers being normally shut-off from one another, means for establishing communication between any two chambers temporarily during the working, so that they can run full at the same time during one and the same working period.

1,375,593. BARREL-STAND. JONAS J. KAUFMAN, Pretty Prairie, Kans. Filed Dec. 22, 1920. Serial No. 432,553. 3 Claims. (Cl. 280—53.)



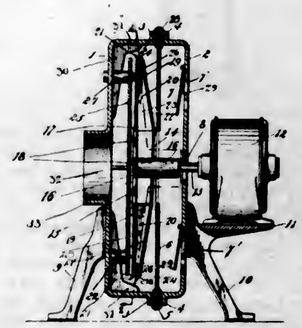
1. In a support of the class described comprising a cradle or frame having longitudinally extending angle bars, flat, transversely, curved braces connecting said bars, caster supported legs rigidly secured to the inner sides of the angle bars, curved arms integral with said supporting legs and attached to the sides of the angle bars, resilient bracing means secured to the upper terminals of the curved arms and normally bearing against the body being transported, and legs pivoted to the inner sides of the said angle bars for supporting the front part of the frame.

1,375,594. AUTOMOBILE-FENDER BRACE. JAKE J. KUNTZ, Oakville, Iowa. Filed July 24, 1920. Serial No. 398,630. 2 Claims. (Cl. 280—163.)



2. A fender brace comprising two metallic sections having lower lapped and connected portions and also having inner and outer arms and upstanding portions on the arms to receive chassis bars between them and also having between the horizontal portions and the outer arms horizontally disposed loops to support fender portions.

1,375,595. BLOWER FOR VENTILATING SYSTEMS. ANTOINE LAMONTAGNE, Montreal, Quebec, Canada. Filed May 24, 1920. Serial No. 383,741. 6 Claims. (Cl. 230—11.)



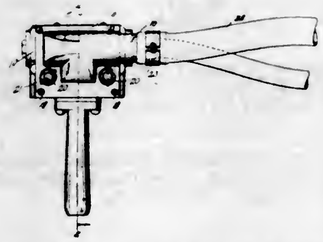
1. In apparatus of the class described, a blower casing of generally cylindrical contour formed of sections, a rotatable blower disposed in said casing and having blades mounted thereon, one of said sections formed with air

inlet ports, valves controlling said ports, a disk interposed between said casing sections, a plate disposed in front of said blades, said blades having their planes disposed at right angles to the plane of rotation, and means for mounting said blades upon said blower.

1,375,596. MANUFACTURE OF PERBORATES. JOHANN KONRAD LANGHARD, Fredriksstad, Norway, assignor to Fredriksstad Elektrokemiske Fabriker A/S., Fredriksstad, Norway. Filed Feb. 6, 1920. Serial No. 356,651. 5 Claims. (Cl. 204—9.)

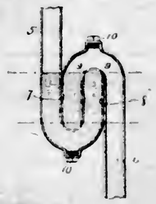
1. Process for the production of perborate by electrolysis of a borate solution comprising the steps of subjecting the borate solution to electrolysis in the presence of a cyanogen compound.

1,375,597. ATTACHMENT FOR HAT-CLIPPING MACHINES. JACK S. LEIBOWITZ, Brooklyn, N. Y. Filed July 8, 1920. Serial No. 394,718. 1 Claim. (Cl. 223—30.)



In a hat clipping machine including a housing and a rotary knife mounted therein, of a hood adapted to cover the open side of said housing, said hood comprising a flat base having openings therein for the accommodation of the adjusting elements of the machine, a hollow crown formed integrally therewith, and a nipple establishing communication from the crown to the exterior, said nipple adapted to be associated with a suction hose for exerting a suction on all sides of the cutting knife to effect the removal of the clipping therefrom.

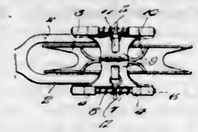
1,375,598. SANITARY TRAP. NORRIS C. LEONARD, Baltimore, Md. Filed July 13, 1920. Serial No. 395,842. 2 Claims. (Cl. 182—12.)



1. A sanitary trap composed of two U-sections each having one long and one short member, one of said sections being inverted and each having the free end of its shorter member in open communication with the bend of its companion section.

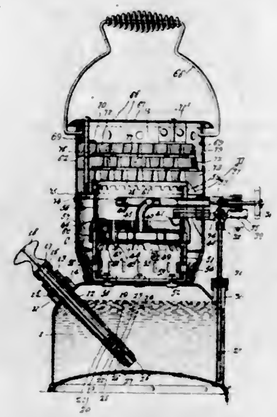
1,375,599. TROLLEY-WIRE HOLDER. FRANK MADRAK, Duryea, Pa. Filed May 2, 1918. Serial No. 232,073. 1 Claim. (Cl. 191—80.)

In combination with a trolley head having a flanged wheel mounted for rotation therein; of spring actuated wings hingedly connected with said head, said wings having enlarged inwardly curved portions to meet each other over the wheel and provide pockets facing toward the wheel, the ends of the curved portions of the wings



being bent outwardly toward and in proximity to the flanges of the wheel to prevent displacement of the trolley wire therefrom.

1,375,600. OIL-STOVE. ALEXANDER MICLAUSH, Cleveland, Ohio. Filed July 2, 1920. Serial No. 393,718. 11 Claims. (Cl. 126—95.)



1. An improved oil stove comprising a stove casing having air admission openings, a fire pot within the casing also having air ports, a partially rotatable liner within the fire pot also having ports adapted to register with the ports of the fire pot, a burner supported within the fire pot and having air passages therethrough, and means for supplying said burner with fuel, substantially as described.

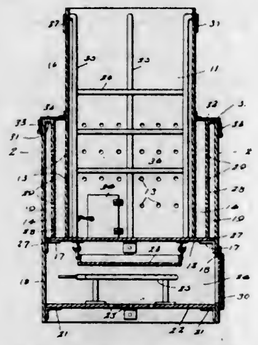
1,375,601. PROPELLING DEVICE FOR USE ON VEHICLES, MARINE VESSELS, OR AIRCRAFT. ERNEST MORIZE, Boulogne-sur-Seine, France. Filed Mar. 27, 1919. Serial No. 285,629. 1 Claim. (Cl. 115—13.)



A propelling device of the character described comprising a comparatively large ejector tube traversed by a Venturi bore adapted to have its front and rear ends directly placed in communication with the exterior medium in which the tube is placed, said mediun having free passage therethrough, the restricted portion of the Venturi bore being situated in the forward part of the bore of the tube, such tube being slotted near the forward restricted portion thereof, a series of progressively larger injector tubes situated within the slotted end of said ejector tube, said injector tubes having their wider ends disposed forwardly and their restricted ends rearwardly and situated within the wider forward ends of adjacent injector tubes, the openings between adjacent injector tubes being in free communication with the exterior

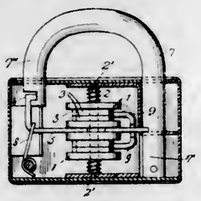
medium, a combustion chamber located forwardly of the first injector tube and having a nozzle projecting into the larger forward end of such first tube, means to supply a fuel to said combustion chamber, and means to also supply a supporting fluid thereto, substantially as described.

1,375,602. SALT-VAPOR CABINET. HARRY JOSEPH NULLETT, Memphis, Tenn. Filed Apr. 2, 1920. Serial No. 370,730. 3 Claims. (Cl. 4—13.)



1. A vapor cabinet, including an occupant compartment, having an open front and an open top, a door closing the front, a curtain for closing the top, vapor generating means below the compartment, medicament holding compartments disposed against the sides and back of the occupant compartment and having perforate communications therewith, and vapor compartments positioned against the medicament compartments having perforated communications therewith and with the vapor generating means.

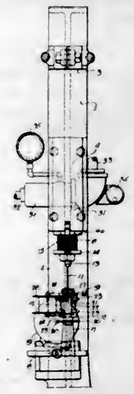
1,375,603. PERMUTATION-PADLOCK. VILHELM ÖHRSTRÖM, Stockholm, Sweden, assignor to Aktiebolaget Laurin & Perkel, Stockholm, Sweden, a Firm. Filed Sept. 23, 1920. Serial No. 412,346. 4 Claims. (Cl. 70—113.)



1. A permutation lock comprising a casing, a U-shaped shackle having its opposite ends projecting within said casing, a central shaft, a plurality of tumblers arranged in pairs and flexibly supported upon said shaft, a segmental disk formed with one face of each tumbler, a locking bolt arranged between each pair of tumblers, arms projecting from said locking bolt and adapted to rest against the peripheries of said segmental disks, a spring for holding said locking bolt in one position, and said disks adapted to hold said locking bolt into engagement with the opposite ends of said shackle, substantially as and for the purpose specified.

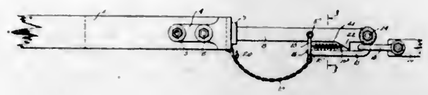
1,375,604. HAMMER-TESTING MACHINE. TINIUS OLSEN, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 16, 1919. Serial No. 345,198. 11 Claims. (Cl. 265—2.)

1. The combination in a machine for testing pneumatic tools of a frame for supporting such a tool and including an abutment; a spring mounted between said abutment and the actuated member of the tool; means for pressing



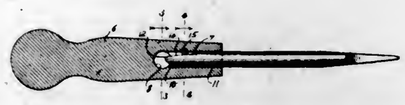
the tool toward the spring; a stylus; means for causing the stylus to be actuated by operation of the tool; and means for recording the movement of the stylus.

1,375,605. AUTOMATIC RELEASE. ELISHA DAVID PEPPER, Pickens, Miss. Filed June 5, 1920. Serial No. 386,805. 4 Claims. (Cl. 213—67.)



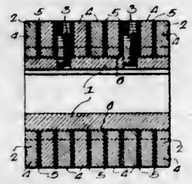
1. A device of the character stated, comprsing a beam, a drawbar movably connected to the beam and projecting forwardly therefrom, a spring engaging the drawbar and offering elastic resistance to the independent forward movement thereof, a rearwardly projecting coupling member pivotally connected at its forward end to the drawbar, a stirrup pivotally connected to the drawbar and normally engaging the free rear end of the coupling member holding the same in operative position, and a normally slack flexible connecting device connecting the stirrup and beam and adapted upon continued forward movement of the drawbar after the connecting device is taut, to cause a release of the stirrup from the coupling member.

1,375,606. SCREWDRIVER. JOHN PEYER, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,435. 1 Claim. (Cl. 279—97.)



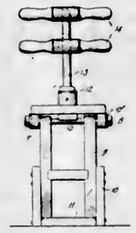
The combination with a tool provided with a shank having the inner extremity thereof formed respectively with tapered and beveled surfaces, of a handle for detachable association therewith, said handle having a longitudinal bore and a transverse bore communicating with the inner extremity thereof, a transverse beveled rib formed across one wall of said longitudinal bore adjacent its juncture with the transverse bore, said rib adapted to engage the bevel surface of the shank, and a pin extending transversely through said handle and having a portion of its periphery disposed within the bore of the wall opposite to the rib whereby upon insertion of the tool in the handle, a frictional binding of the inner extremity of said shank will be effected through the engagement of the beveled surface with the beveled rib and the tapered surface with the periphery of the pin.

1,375,607. PULLEY. HAROLD E. PRINTZ, Reading, Pa., assignor to Reading Wood Pulley Company, Reading, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1920. Serial No. 374,048. 7 Claims. (Cl. 64—17.)



1. A pulley having a belt engaging portion consisting of alternated layers of hard and soft wood.

1,375,608. TOY. EMMA CHARLOTTE RICHARDSON, Ridgefield Park, N. J. Filed June 9, 1920. Serial No. 387,564. 2 Claims. (Cl. 46—22.)



2. A see-saw including a board, a standard, a bolt attached to said board and standard and affording pivotal connection between its members, a pole having its lower end secured to said board and two pairs of handles arranged one above the other and secured to and at the upper end of said pole.

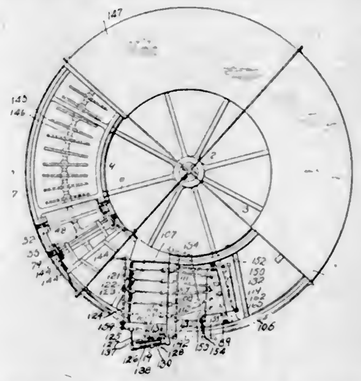
1,375,609. APPARATUS FOR MAKING ICE-CREAM CONES. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed June 24, 1912. Serial No. 705,584. Renewed Sept. 10, 1919. Serial No. 322,980. 52 Claims. (Cl. 107—58.)

1. A cone making machine comprising sectional molds adapted for travel in a fixed path, means for supplying material to the mold cups, plungers adapted for automatic projection into the cups, means for opening the molds and separate means for removing the plungers, and means for stripping finished cones from the plungers.

46. In a cone baking machine, a carrier rotatably mounted about a vertical axis, a plurality of molds supported by said carrier, core supports on said carrier, cores mounted on said supports and movable into and out of said molds in downward and upward directions, respectively, while maintaining their axes in vertical position, means operative to cause movement of said cores, and means for heating said molds and cores.

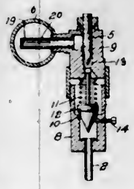
50. A cone making machine, a traveling support, sectional molds movable thereby, a corresponding plurality of cores therefor, a core bar for supporting the cores, and means for automatically separating the mold sections and also separating said core bar and molds while maintaining the same in parallel relation with each other.

52. In a cone making machine, the combination, of baking molds formed in separate sections, and means coacting with said sections to open and close them in parallel relation one section with the other, forming cores adapted to be inserted and withdrawn in and from said molds, means for ejecting cones formed thereby through and be-



tween said mold sections and means to maintain said forming cores in parallelism with said mold sections, whereby the three elements, each mold section and the forming cores will move to and from each other and be held in operative position in parallel relation to each other.

1,375,610. MECHANISM FOR CONTROLLING THE ADMISSION OF AIR AND GASOLENE TO EXPLOSIVE-ENGINES. AUGUSTUS F. SCHMIDT, Pittsburgh, Pa., assignor to John H. Roney, trustee, Pittsburgh, Pa. Original application filed May 26, 1913, Serial No. 769,794. Divided and this application filed Sept. 11, 1916. Serial No. 119,406. 8 Claims. (Cl. 123—98.)



1. In a mechanism for controlling the admission of air and gasolene mixture to the cylinders of an explosive engine, the combination of a throttle valve and valve mechanism interposed between the throttle valve of the carbureter and the inlet to the cylinders, adapted to be operated simultaneously with the throttle valve, to be opened by vacuum and closed by a spring when said vacuum decreases, for the purpose of admitting a regulated amount of air with the gasolene mixture and of shutting off air, dependent upon the varying speeds of the motor.

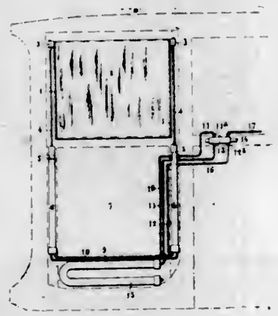
1,375,611. ROBE-HOLDER FOR AUTOMOBILES. REINHOLD SCHOELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Nov. 3, 1919. Serial No. 335,372. 6 Claims. (Cl. 45—13.)



6. In a safety robe holder, the combination with a robe rail, clamping bar and hollow brackets for supporting the rail and bar, of friction clutches located in the hollow

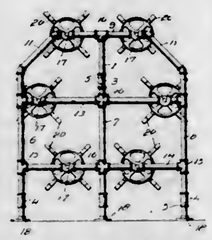
brackets and adapted to automatically lock the clamping bar in any desired adjustment, and key lock actuated mechanism located in the hollow brackets and rail for actuating the clutches to unlock and release the clamping bar.

1,375,612. DEVICE FOR CONTROLLING FROM A DISTANCE THE WINDOWS OF MOTOR-CARS AND OTHER VEHICLES. PIERRE SEURIN, Paris, France. Filed Jan. 25, 1921. Serial No. 439,862. 2 Claims. (Cl. 268—4.)



1. In a device for operating windows of cars and other vehicles, the combination with the window sash, of two vertical cylinders on opposite sides of the window, a piston in each cylinder and having their piston rods connected with the window sash, a valve casing having a port open to the atmosphere, two tubes connecting the lower ends of the cylinders and each having a branch connected with the valve casing, an air pressure tank, a tube leading from the air pressure tank to the valve casing, and a valve in the casing for establishing communication between the tube of the air pressure tank and the branch of one tube connecting the cylinders and establishing communication between the branch of the other cylinder connecting tube and the port of the valve casing open to the atmosphere.

1,375,613. REEL-FLY RACK. CHARLES P. SHOEMAKER, Wilkes-Barre, Pa. Filed Aug. 12, 1920. Serial No. 403,070. 1 Claim. (Cl. 242—106.)



A reel fly rack comprising connected end members, each composed of two outer and an intermediatee upright, the latter being higher than the former, spaced cross bars connecting said uprights, and each having reel fly receiving bearings, the top cross bar being shorter than the others and inclined bars connecting the outer uprights with said top cross bar.

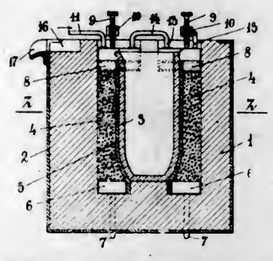
1,375,614. BABY-CARRIAGE. GEORGE H. SMITH, Newport, R. I. Filed Aug. 18, 1920. Serial No. 404,423. 4 Claims. (Cl. 280—31.)

3. In a baby carriage, a pair of longitudinal frame bars supported on the rear axles of the carriage, a pair of springs of general S-shape carried by the forward ends of the longitudinal frame bars, the forward end of the body portion of said vehicle having pivotal mounting in said springs, transversely positioned split clamping members around the rear ends of the frame bars, upwardly



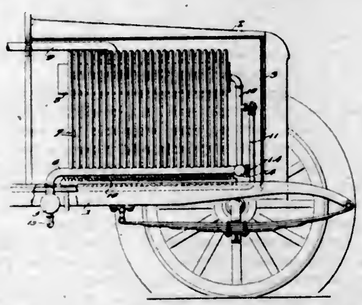
extending pins carried by the clamping members, nuts loosely mounted on the pins, coiled springs around the pins between the nuts and the clamping members, perforated angle brackets secured to the rear end of the body portion receiving the pins and supported on the nuts.

1,375,615. ELECTRIC FURNACE. CESARE SONCINI, Pont St. Martin, Italy. Filed Apr. 12, 1920. Serial No. 373,204. 6 Claims. (Cl. 204—64.)



1. An electric furnace, comprising a body of refractory material having a crucible-receiving space therein, and also having a plurality of chambers independent from each other arranged around said space; a filling of resistance material in said chambers to form heating resistances; members feeding the electric current to the ends of said resistances; and means for connecting said members with each other and with the current-feeding means.

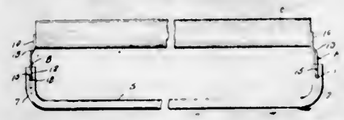
1,375,616. STEAM-BOILER. SWAN F. SWANSON, Pueblo, Colo. Filed June 12, 1919. Serial No. 303,563. 4 Claims. (Cl. 122—333.)



1. A steam boiler including with a water distributing manifold, a plurality of primary water manifolds each connected at one end with said distributing manifold and

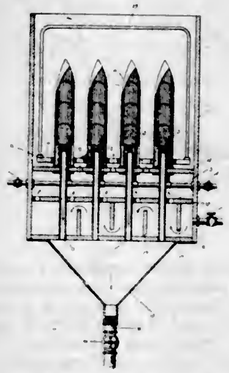
extending in parallel relation in a horizontal plane, a mud drum to which the remaining end of each of said primary manifolds is connected, a dry steam drum disposed above and parallel with said primary manifolds, and a plurality of water tubes associated with each of said primary manifolds extending vertically upwardly therefrom and each curved over at its upper end to connect with said steam drum.

1,375,617. CURTAIN-POLE BRACKET. HOWARD A. TONGUETT, Marion, Ohio, assignor of one-half to Justice H. Uncapher, Marion, Ohio. Filed July 15, 1919. Serial No. 310,944. 2 Claims. (Cl. 156—19.)



2. As a new article of manufacture, a curtain pole bracket formed of a single blank and comprising a body plate having an offset portion adapted to be secured to a window frame, a central forwardly extended and upwardly curved supporting arm projecting from the outer edge of said body plate for engagement in the end of a curtain pole to support the same, an upper locking arm extended parallel with the main portion of the central arm and terminating in a downwardly extended locking end for engagement through an opening in the upper face of the curtain pole supported on the first mentioned arm, the locking end having a beveled inner wall, and a stop shoulder formed beneath the first mentioned arm to receive the end of the lower wall of the curtain pole and retain the curtain pole against movement on the first mentioned arm and the locking arm of the bracket.

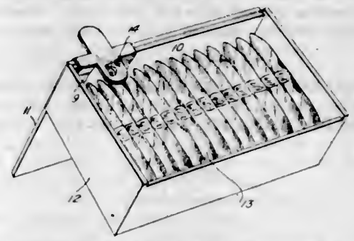
1,375,618. ENVELOP-MACHINE. TOSAKICHI UMEDA, Tennoji-Mura, Japan. Filed July 16, 1919. Serial No. 311,343. 7 Claims. (Cl. 92—57.)



1. In an apparatus of the kind herein referred to for making seamless envelops, two or more horizontal partitions in the lower part of the vat, perforations out of register with each other in the said partitions, and baffles in the path of the pulp admitted beneath the lower or lowest partition, for the purpose set forth.

1,375,619. EXHIBITING DEVICE. SAMUEL C. VAUGHN, Charlotte, N. C. Filed Oct. 7, 1919. Serial No. 329,173. 2 Claims. (Cl. 217—61.)

1. A means for holding the lid of a box against the back thereof to exhibit the contents of the box; comprising a flat body strip having a price mark imprinted adjacent one of the edges thereof and its opposite edge designed to provide a finger hold, said body having central reduced lateral extensions, resilient tongues formed on the edges of said extensions, and depending therefrom to provide



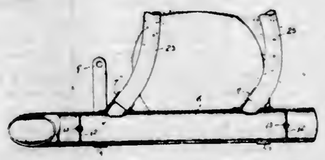
inner and outer coöperating pairs of gripping elements to the opposite sides of the body and for engaging the back and the cover of the box, and the inner pair of gripping elements having their free ends formed with lips that are projected toward the outer pair of said elements.

1,375,620. STOVE-DOOR. THOMAS R. WILSON, Driggs, Idaho. Filed July 15, 1919, Serial No. 310,880. Renewed Feb. 26, 1921. Serial No. 448,040. 1 Claim. (Cl. 126—190.)



In combination with a heating device having a fuel opening, a door hinged for horizontal swinging and for closing the upper part of the opening, a chute hinged for vertical swinging for closing the lower part of the opening, means for limiting the outward swinging of the chute for retaining the same at an inclination with respect to the heating device, said chute including sides provided at their upper corners with tapered extensions, and the said chute having an outstanding lip upon its upper edge conforming with the extensions, pockets for the reception of the lower edge of the door, whereby when the said edge of the door is received therein and the door and chute closed, the opening of the door will influence the chute to an open position.

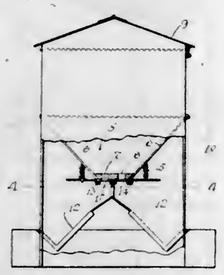
1,375,621. GAS-ENGINE CUT-OUT MUFFLER. HAMILTON MERCER WRIGHT, Jr., New Rochelle, N. Y. Filed June 28, 1919. Serial No. 307,363. 6 Claims. (Cl. 137—160.)



6. A combination internal combustion motor cut-out and a muffler comprising; a muffler tube having unrestrict-

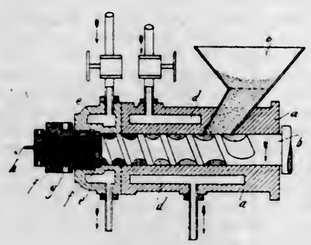
ed openings at each end, a butterfly valve pivotally confined in the muffled tube adjacent each open end, a crank or foot piece attached to each butterfly valve to open and close same, a link connecting the two foot pieces so that both valves may be simultaneously opened or closed by manipulating one of the foot pieces, and a coil compression spring related with the foot piece to exert pressure on the buterfly valve to hold it in set position.

1,375,622. ANIMAL-CONTROLLED FEEDER. WILLIAM H. ABTS, Belden, Nebr. Filed Aug. 8, 1919. Serial No. 316,106. 2 Claims. (Cl. 119—54.)



1. The combination with a hopper having an outlet in the bottom thereof, of a rod mounted for rotation on said bottom, a plate secured thereto and constituting a valve for closing the outlet, oppositely extending end portions of the rod projecting laterally from the axis of rotation of the rod, and a spring connected to one of said end portions for holding the plate or valve in closed position across the outlet, the other end of the rod constituting means to be lifted by the snout of an animal to open the valve.

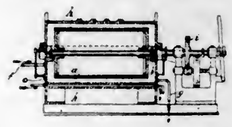
1,375,623. APPARATUS FOR THE MANUFACTURE OF HORN-LIKE MASSES FROM CASEIN. AMANDUS BARTELS, Harburg-on-the-Elbe, Germany. Filed Feb. 16, 1916, Serial No. 78,628. Renewed Apr. 22, 1920. Serial No. 375,910. 2 Claims. (Cl. 18—12.)



1. In an apparatus for manufacturing horn-like masses from casein, the combination of a casing formed with a bore, a screw operating in the bore, the threads of the screw being formed to compress the casein as same approaches the end of the bore, means for feeding casein to the threads of the screw, a cooling jacket surrounding the casing and a portion of the bore to cool the casein while being fed forward, an extension on the casing having a tapered bore which communicates with the first mentioned bore, a heating chamber surrounding a part of the bore in the extension and a part of the screw whereby to heat the compressed casein.

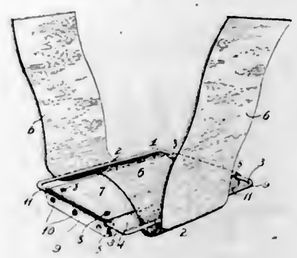
2. In an apparatus for manufacturing horn-like masses from casein, the combination of a casing formed with a uniform bore, a screw in the bore, the threads of the screw gradually decreasing toward one end, an extension on the casing, said extension having a tapered chamber which communicates with the bore in the casing, a sieve in said chamber which with the screw serves to knead the casein, and means for heating the casein while same is being kneaded.

1,375,624. APPARATUS FOR THE MANUFACTURE OF TRANSPARENT HORN-LIKE CASEIN MASSES. AMANDUS BARTELS, Harburg-on-the-Elbe, Germany. Filed Feb. 16, 1916, Serial No. 78,629. Renewed Apr. 22, 1920. Serial No. 375,911. 2 Claims. (Cl. 87—6.)



1. In an apparatus for manufacturing transparent horn-like casein, the combination of a closed receptacle divided horizontally to form a removable upper portion and a stationary lower potrion, the stationary lower portion being hollow to provide a chamber for heating or cooling the interior of the receptacle, inwardly extended alined bearings on the inside of the receptacle, a shaft mounted adjacent one of the bearings, means for rotating the shaft, a perforated drum, a shaft on which the perforated drum is mounted, said latter shaft being extended beyond the ends of the drum and supported in the bearings, a coupling between one end of the last mentioned shaft and the first mentioned shaft whereby to permit the removal of the drum when the cover is removed from the receptacle, and elongated cups on the drum to lift liquid contained in the receptacle to percolate through the perforations and treat casein contained in said drum.

1,375,625. SHOE-SHINING DEVICE. MAX BLOOMSTEIN, Nashville, Tenn. Filed Sept. 23, 1920. Serial No. 412,179. 2 Claims. (Cl. 15—58.)

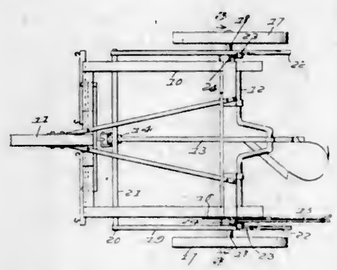


2. A shoe shining device, comprising a rectangular wire frame, a wooden block narrower than the rectangular wire frame, the said block being notched at its ends and extending from end to end of said wire frame and depending below the plane thereof, and a sheet metal facing plate secured upon said wooden block and having flanges embracing the end members of the wire frame and secured to the ends of said wooden block.

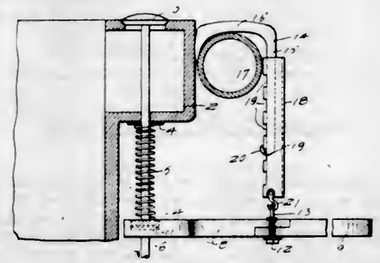
1,375,626. SIDEHILL-PLOW. GRANT CARPENTER, Eldred, Pa. Filed Sept. 5, 1919. Serial No. 321,822. 1 Claim. (Cl. 97—36.)

A plow of the kind indicated consisting of a frame, rearwardly extending arms pivotally connected to the frame at their forward ends and provided adjacent their rear ends with laterally projecting stub axles, wheels mounted upon said stub axles, the rear extremities of said arms being formed to provide handles, segmental racks mounted on opposite sides of the frame adjacent said arms, latches

carried by said arms and engageable with said racks, whereby the relative positions of the wheels may be varied vertically to support the frame in a horizontal plane when the machine is on an incline, and a plow carried by the frame.

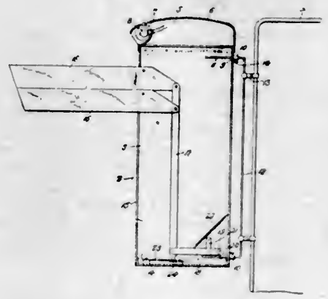


1,375,627. VALVE-LIFTER. REUBEN CHANEY, Fort Worth, Tex. Filed Apr. 8, 1920. Serial No. 372,328. 1 Claim. (Cl. 29—86.3.)



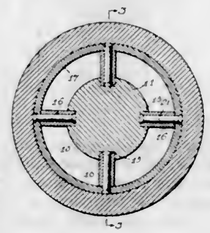
A valve lifter comprising a tool adapted to grip the plate of a valve, a casing detachably and pivotally connected to the tool and having spaced slots, a shank slidable in said casing, a projection on said shank and adapted to receive either of the slots to adjust the shank in relation to said casing, and a hook formed on said shank.

1,375,628. DIRECTION INDICATOR OR SIGNAL FOR MOTOR-VEHICLES AND THE LIKE. JAY C. COLBURN, Webster City, Iowa. Filed Jan. 14, 1919. Serial No. 271,023. 1 Claim. (Cl. 116—41.)



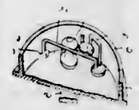
In a device of the class described, a casing having a vertical slot in one wall thereof, a signal arm pivoted within said casing and adapted to be moved through said slot, a vertically disposed rod with which one end of the arm is pivotally connected, a rock shaft journaled within the casing, a link connecting the shaft with the lower extremity of said rod, whereby said blade may be projected from the casing when said rod is lowered, a latch element projecting from one side of the casing and disposed adjacent the length, and designed to engage the latter to hold the arm projected, said rock shaft projecting an appreciable distance beyond one wall of the casing, said shaft being susceptible of horizontal sliding adjustment, a coil spring surrounding said projected portion of the shaft having one end bearing against the casing, a knob on one end of the shaft to engage with the spring whereby the spring holds said shaft in a position whereby the latch engages the link, said shaft adapted to be moved against the tension of the spring to separate the link from the latch, and a spring connecting the link and one wall of the casing whereby the parts are automatically returned to normal position when released from the latch.

1,375,629. INKING-ROLLER. AUGUSTUS R. COLGIN, New York, N. Y. Filed Oct. 28, 1920. Serial No. 420,158. 2 Claims. (Cl. 91—67.8.)



1. An inking roller, comprising a spindle provided with reduced journals at the ends and having longitudinal grooves intermediate the journals, supporting bars fitting the said grooves and projecting from the peripheral face of the spindle, and a shell attached to the said bars and concentric with the said spindle.

1,375,630. DRUM-HANDLE FOR TAPE-LINE REELS. CHARLES W. CROGAN, Bangor, Me. Filed July 10, 1919. Serial No. 309,946. Renewed Mar. 1, 1921. Serial No. 448,866. 6 Claims. (Cl. 242—84.8.)

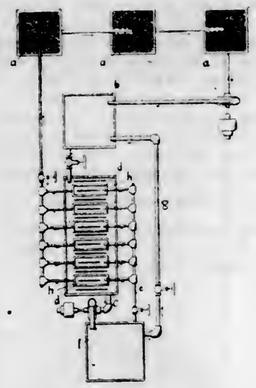


1. The combination with the winding drum and pivoted handle of a tape line reel, said handle including a knob having an enlarged terminal, a U-shaped spring coacting with said enlarged terminal of the knob, one end of said spring being soldered to the flange of said drum and its opposite end to a push button, an auxiliary U-shaped spring having one end thereof also soldered to the flange of the drum, rearwardly of the said terminal and its opposite end soldered to said push button to assist the first mentioned U-shaped spring in releasing the knob when pressure is applied to the push button.

1,375,631. PROCESS OF SEPARATING AND REFINING METALS. GUSTAF HAGLUND, Falun, Sweden. Filed Dec. 5, 1918. Serial No. 265,383. 9 Claims. (Cl. 204—14.)

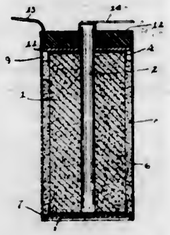
1. In the separating and refining of metals the process of recovering copper and another metal from material in

granular form containing the same, which comprises subjecting the same material to the action of an acid solution whereby the copper and the other metal are dissolved and a neutral solution formed, continuing the treatment after the formation of the said solution until the copper



is cemented out by the other metal and a pure solution of the last named metal is formed, and recovering the said metal from the last named solution by subjecting the solution to electrolysis whereby the said metal is deposited on the cathode in refined condition.

1,375,632. DRY CELL. CARL HAMBUECHEN, Belleville, Ill., assignor to National Carbon Company, Inc., a Corporation of New York. Filed June 15, 1918. Serial No. 240,216. 6 Claims. (Cl. 204—29.)



4. A dry cell comprising, in combination, a container electrode, an electrode therein comprising an unwrapped molded mass, means at the opposite ends of said mass for protecting the same against dislodgment of particles thereof, and flour paste or the like between said electrodes and contacting directly with the unwrapped or bare surface of said mass between such protecting means.

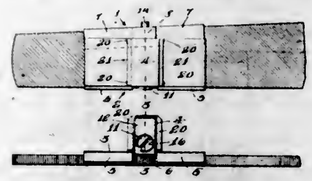
1,375,633. NAIL. HARRY D. HAMILTON, Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 9, 1920. Serial No. 409,127. 5 Claims. (Cl. 85—10.)

1. A nail for attaching rubber heels to shoes, comprising in combination, a shank having a tapering portion terminating in a clenching point disposed concentrically of the shank and an enlarged head disposed concentrically of the shank and having a filleted junction with the shank, the upper surface of said head being cupped over substantially its entire area and having a curvature so arranged rela-



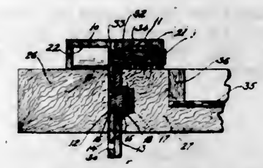
tively to the said filleted junction as to provide the maximum thickness of the head adjacent to the shank of the nail.

1,375,634. SUPPLEMENTAL HANDLE FOR FILES. JOHN O. HANIGAN, Syracuse, N. Y. Filed Mar. 3, 1920. Serial No. 362,066. 9 Claims. (Cl. 29—80.)



1. A supplemental handle for files comprising opposing clamping pieces for engaging opposite sides of the file, one having a projecting chambered portion serving as a handle, and the other having a complemental projecting portion extending into said raised portion of the former piece, and means for clamping said pieces toward each other, substantially as and for the purpose described.

1,375,635. HINGE. CLAES J. JOHNSON and GEORGE A. JACOBS, Chicago, Ill. Filed Mar. 1, 1920. Serial No. 362,300. 8 Claims. (Cl. 16—111.)

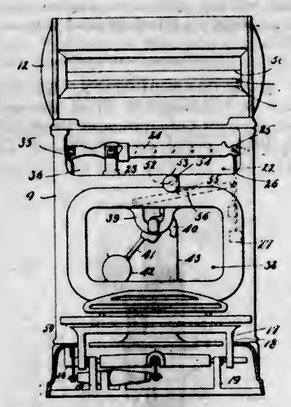


2. A half hinge having, in combination, a plane portion positioned in abutment with the edge of a structural member and another portion extending partly in a plane at right angles to the first portion in abutment with the exposed face of the structural member, said last mentioned portion being bulged out to define a casing bounded by end walls lying substantially in planes parallel to the plane of the first portion and by a curved wall joining the edges of the end walls, said casing opening against the face of the structural element.

1,375,636. SCALE. LEONARD T. JOHNSON, Boston, Mass. Filed Feb. 17, 1919. Serial No. 277,525. 6 Claims. (Cl. 265—62.)

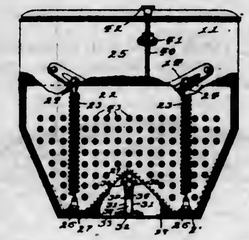
1. The combination of an indicator, of a pivoted lever operatively connected thereto, a tare beam, a second lever

arranged beneath and substantially parallel to said first lever, connecting means for coupling the levers together,



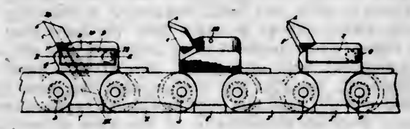
and means for operating the tare beam by the first lever through the medium of the second lever.

1,375,637. WASHING-MACHINE. PETER J. KASDA, Oklahoma, Okla. Filed Nov. 24, 1919. Serial No. 340,242. 2 Claims. (Cl. 68—21.)



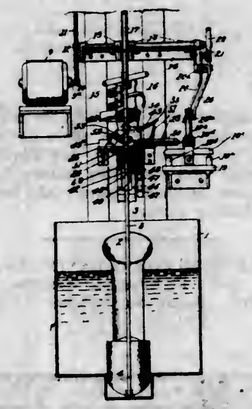
1. In a washing machine, an oscillatory container, a perforated cage relatively movable therein and having a bottom raised along a longitudinal line, a depending locking member in the crotch thus formed, and upstanding resilient means for engagement with said locking member.

1,375,638. CUTTING-CHAIN. CHARLES J. KIENZLE, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed May 3, 1920. Serial No. 378,517. 3 Claims. (Cl. 262—33.)



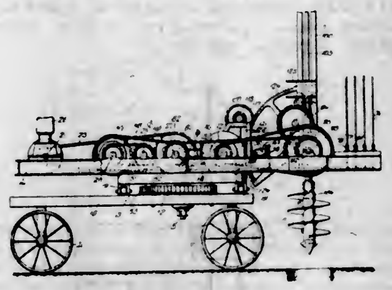
3. In a cutter chain for mining machines, the combination with a block link having a transversely extending aperture, a cutter bit longitudinally movable in said aperture, a plurality of transversely notches formed in the cutter bit, and automatically acting means coöperating with said notches to prevent longitudinal movement of the cutter bit as and for the purpose set forth.

1,375,639. LIQUID-VENDING APPARATUS AND COIN-ACTUATED MECHANISM. SOREN MADSEN, New York, N. Y. Filed Dec. 4, 1916. Serial No. 134,804. 5 Claims. (Cl. 194—77.)



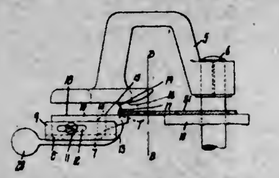
1. Vending apparatus embodying delivery mechanism, a coin-guide having a coin slot, a coin-carrying slide having a coin-receiving slot normally registering with the slot in the coin-guide, said slide being movable laterally of said coin-guide to carry the coin edgewise out of and back into registry therewith, a coin stop carried by said slide and movable into and out of registry with the slot in the coin guide, and an arm carried by said slide to actuate the said delivery mechanism.

1,375,640. EARTH-BORING MACHINE. WILLIAM E. MOORE, Chicago, Ill., assignor, by mesne assignments, to International Earth Boring Machine Corporation, a Corporation of Delaware. Filed Sept. 7, 1918. Serial No. 252,994. 15 Claims. (Cl. 255—22)



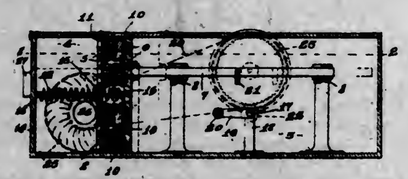
1. An earth boring machine including in combination a main frame, a supporting frame rotatably mounted thereon, an auger tower mounted near one end of said supporting frame, means for rotating said supporting frame relative to said main frame, said auger tower being pivotally mounted with raference to said supporting frame, the pivotal mounting including a trunnion on one side and a driving shaft on the other side, means for actuating said driving shaft, an auger mounted in said auger tower and having operative connection with said driving shaft, and means for tilting said auger tower.

1,375,641. GAGE FOR POSITIONING SHEET MATERIAL. AUSTIN D. RHODES, Waltham, Mass., assignor to American Lacing Hook Co., a Corporation of New Jersey. Original application filed July 29, 1918, Serial No. 247,116. Divided and this application filed Nov. 20, 1919. Serial No. 341,535. 9 Claims. (Cl. 218—17.2.)



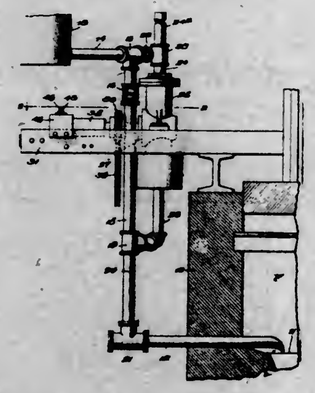
1. A work-support and a gage movably mounted thereon and adapted normally to project above the work contacting surface of said work-support, and movable vertically relatively to said work contacting surface, the front edge of said gage being inclined upwardly and forwardly from said work-contacting surface.

1,375,642. MACHINE FOR CLEANING BLACKBOARD-ERASERS. JOHN K. RUSSELL, Waterloo, N. Y. Filed July 9, 1919. Serial No. 309,598. 1 Claim. (Cl. 15—25.)



A machine for cleaning erasers comprising a box having a perforated partition therein, a movable partition on one side of the perforated partition having means for attaching erasers thereto between said partitions, a spring tending to hold the movable partition against the perforated partition, means for moving the movable partition away from the perforated partition, and then releasing said partition and a fan for drawing the dust from the other side of the perforated partition, substantially as and for the purpose specified.

1,375,643. FEEDING APPARATUS. LEWIS BAILEY SKINNER, Denver, Colo. Filed Feb. 19, 1920. Serial No. 359,956. 9 Claims. (Cl. 23—1.)



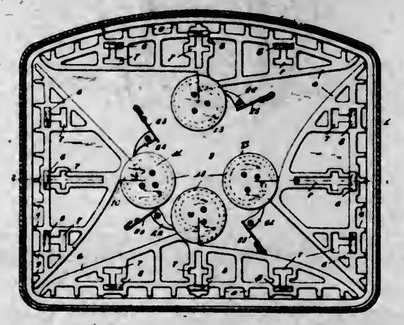
7. Acid feeding appartaus comprising the combination, with a source of acid supply and a discharge pipe arranged at a lower level, of acid feeding means interposed at an intermediate level between said source of supply and said discharge pipe and comprising a conduit, a rotary feeding valve member seated in said conduit, means for continuously rotating said valve member, and means for constantly pressing it against its seat without interfering with rotation.

1,375,644. BEAM CONSTRUCTION. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Aug. 10, 1918. Serial No. 249,227. 7 Claims. (Cl. 139—56.)



1. In beam construction, in combination, a barrel, a beam head, a pulley member provided with an inwardly extending flange secured to the inner portions of said beam head, a shaft, and means mounted upon said shaft and engaging said flange to hold said head against the end of said barrel.

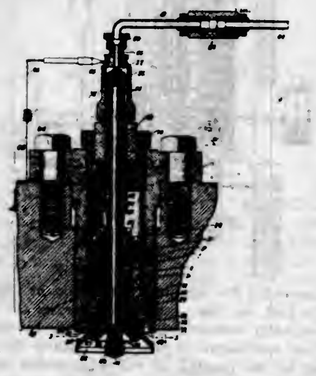
1,375,645. DOOR-LOCK FOR OPEN-END VAULTS. CLARENCE F. UNCKRICH, Galion, Ohio. Filed Sept. 2, 1919. Serial No. 321,110. 2 Claims. (Cl. 292—5.)



1. In a metallic grave vault, a closure for the entrance of said vault, a flange rigidly carried by said vault contiguous to its entrance and against which said closure is arranged to seat, means for locking said closure in secured relationship with said seat, comprising a plurality of locking plates slidably mounted upon the inner face of said closure and capable of being projected into and out of engagement with said flange, circular cam members independently mounted for rotation upon the inner face of said closure, said cam members being provided with grooves disposed eccentrically to the axes of rotation thereof and with continuing grooves disposed concentrically to the axes of rotation, projections provided upon the inner ends of said plates and arranged to be received within said grooves, whereby upon the selective rotation of said cam members said plates may be projected into engagement with said flange, and inwardly projecting

cam surfaces provided upon the inner vertical faces of said cam members contiguous to the concentrically arranged grooves, whereby after said plates have been projected into engagement with said flange by the eccentric grooves of said cam members, the inwardly projecting cam surfaces of said mmbers will engage with said plates to rock the latter laterally into firm frictional engagement with said flange.

1,375,646. ELECTRICAL VAPORIZER AND BURNER. NICHOLAS D. BELINSKI, New York, N. Y. Filed May 14, 1919. Serial No. 297,051. 9 Claims. (Cl. 158—31.)



1. An electric vaporizer and burner, comprising an electric circuit, circular electrodes in the said circuit and forming an annular spark gap and passage between them, and means normally closing the passage and dapted to be opened by the pressure of the fluid to allow the latter to flow through the passage and to be ignited by the annular spark.

1,375,647. DEPOLARIZING BATTERY-ELECTRODE AND PROCESS OF MAKING SAME. RAYMOND C. BENNER and HARRY F. FRENCH, Fremont, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Aug. 22, 1918. Serial No. 251,029. 3 Claims. (Cl. 204—29.)

2. The process of preparing a high voltage depolarizer for electric batteries, which consists in producing cuprous oxid by electrolysis, oxidizing the cuprous oxid to cupric oxid and adding sulfur.

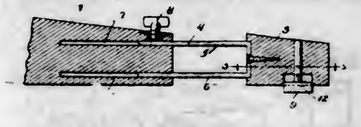
1,375,648. LUBRICATOR. HARRY O. BOYER, Proberta, Calif. Filed Nov. 26, 1919. Serial No. 340,910. 7 Claims. (Cl. 74—108.)



1. A lubricator for the wrist-pin of a piston comprising a lubricant reservoir, inclined walls covering said reservoir, and a passage through the bottom thereof.

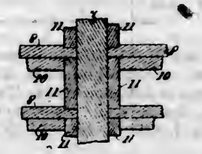
1,375,649. STRAIGHTEDGE. WALTER LYMAN CLARK, Boone, Iowa. Filed Dec. 29, 1919. Serial No. 347,904. 3 Claims. (Cl. 33—75.)

1. A straightedge comprising a body, a block for each end of the body, a member slidably connecting each member of the block with the body, a thumb screw for locking the block in adjusted position, and a plunger adjustably



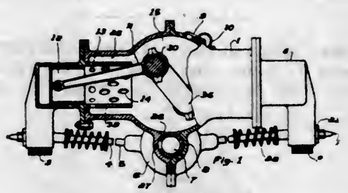
mounted in each block for movement in a direction opposite from the movement of the block.

1,375,650. FILING DEVICE. ALEXANDER C. BARNARD and WILLIAM O. BANKS, Oakland, Calif., assignors of one-third to Harry B. Tooker, San Francisco, Calif. Filed Apr. 6, 1920. Serial No. 371,630. 3 Claims. (Cl. 45—54.)



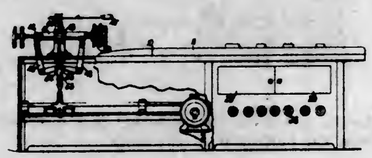
1. A cabinet of the class described, including a plurality of slidably movable shelves, interchangeable spacing and supporting means extending throughout the length of said shelves and capable of selectively varying the area of the space between the shelves, and detachable means on the front of the cabinet for confining the shelves within the cabinet with an unobstructive access to the spaces between the shelves, said interchangeable spacing and supporting means comprising strips made to be received between two adjacent shelves, said shelves and their spacing strips adapted to coöperate one with the other for spacing the shelves.

1,375,651. INTERNAL-COMBUSTION ENGINE. VERNON W. BALZER and JOHN MCK. BALLOU, Los Angeles, Calif., assignors to Western Aircraft Corporation, Inc., Los Angeles, Calif. Filed Mar. 17, 1920. Serial No. 366,520. 3 Claims. (Cl. 123—56.)



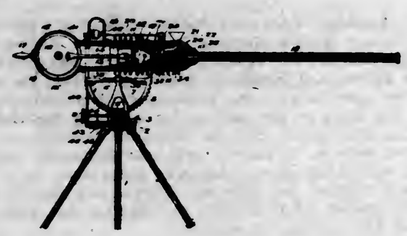
3. In an internal combustion engine, a crank case having an inlet port in its bottom side and having a longitudinal conduit alongside of the crank case, a crank shaft through the crank case practically parallel to the conduit in the case, cylinders disposed on the crank case projecting sidewise from the crank case at about right angles from the crank shaft, the cylinders having extension ends extending into the crank case, the extension ends of the cylinders having ports at a point within the crank case, pistons disposed in the cylinders so as to come below the ports in the extension ends of the cylinder when in their innermost position in relation to the crank case so that a gas mixture in the crank case can pass over into the cylinders above the pistons when in this position, and a hollow cam shaft disposed in and through the longitudinal conduit in the bottom of the crank case forming the manifold of the device.

1,375,652. THERAPEUTIC APPARATUS. JOSEPH J. CARLOTTI, New York, N. Y. Filed July 30, 1917. Serial No. 183,470. 11 Claims. (Cl. 128—51.)



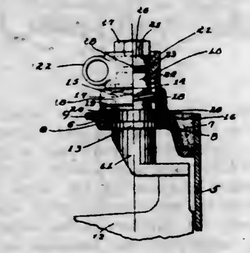
1. An apparatus comprising a support for a recumbent human figure; a plurality of yielding pads operatively disposed in said support, each of said pads having a plunger extending below said support; and a reciprocating mechanism for said plungers, said reciprocating mechanism embodying two series of cams arranged for operation of said pads.

1,375,653. MACHINE-GUN. ROBERT M. MCLAIN and WILLIAM M. QUICK, Huntsville, Ala., assignors, by direct and mesne assignments, to The Quick-McLain Machine Gun Company, a Corporation of Alabama. Filed June 1, 1917. Serial No. 172,253. 11 Claims. (Cl. 89—1.)



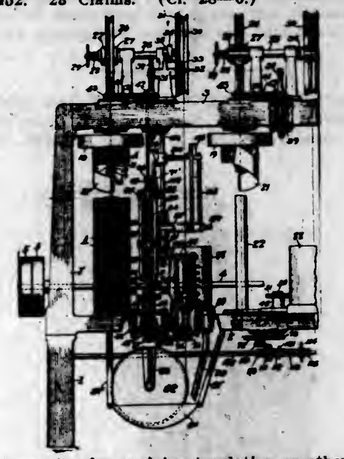
1. A gun comprising a barrel, an internal combustion engine having its explosive chamber opening into one end of the barrel, and projectile feeding instrumentalities operable automatically by the movement of the engine to supply projectiles successively to the barrel to be discharged through the barrel by explosions in the combustion chamber of the engine.

1,375,654. BINDING-POST FOR STORAGE BATTERIES. JOSEPH J. FLOOD, East Orange, N. J. Filed Apr. 3, 1920. Serial No. 370,915. 8 Claims. (Cl. 204—29.)



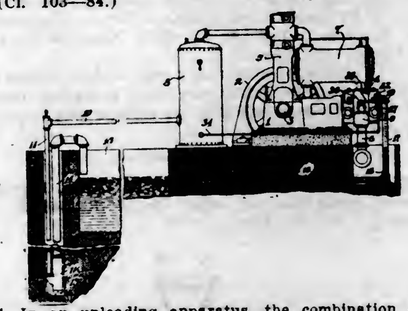
1. The combination with the cover of a storage battery having an opening and a rib within the opening, of a post to extend through the opening, said post having its upper portion screw-threaded, a rib carried by the post and engaging beneath the first named rib, a gasket arranged above and in contact with the first named rib, a post nut having interior screw-threads to engage with the first named screw-threads and engaging the gasket, and a thimble carried by the post and engaging the post nut to prevent improper turning thereof.

1,375,655. WIRE-COVERING MACHINE. JOHN ALLEN HEANY, New York, N. Y., assignor, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Delaware. Filed Feb. 10, 1916. Serial No. 77,452. 23 Claims. (Cl. 28—6.)



2. Apparatus for applying insulation or other covering to wires and the like, comprising means for moving the wire vertically downwardly, means for reversing the direction of movement of the wire, means for applying a covering to the portion of the wire which moves downwardly, means for applying an impregnating material to the covered wire during its reversal of movement, and ironing and smoothing means for acting upon the portion of the covered and impregnated wire which moves vertically upwardly.

1,375,656. COMPRESSOR-CONTROLLING MECHANISM. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 20, 1916, Serial No. 126,793. Renewed Aug. 13, 1920. Serial No. 403,299. 24 Claims. (Cl. 103—84.)

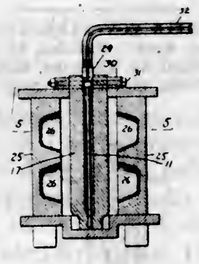


1. In an unloading apparatus, the combination comprising a compressor, a pump connected therewith, a reservoir receiving material from said pump, and means controlled by the level of the material in said reservoir for unloading said compressor.

21. In a pumping system, a source of fluid pressure, a plurality of pumping units, a reservoir for receiving the material from said units, and means operative at different levels of the material in said reservoir for successively controlling the flow of fluid from said source to said units.

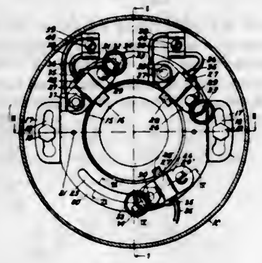
1,375,657. PROCESS FOR MAKING ARTICLES OF QUARTZ GLASS. JOHN SCHARL, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 8, 1919. Serial No. 275,688. 4 Claims. (Cl. 49—78.1.)

1. The process of making articles of quartz glass consisting in heating the quartz into a plastic mass in an electric resistance furnace about a resistance core, closing the bottom of the fused mass, then removing the same



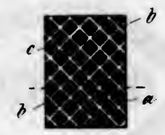
from the furnace together with the hot core and blowing the mass out into desired shape.

1,375,658. DYNAMO-ELECTRIC MACHINE AND BRUSH-HOLDER DEVICE THEREFOR. CLARENCE F. GILCHRIST, Toledo, Ohio, assignor to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed July 9, 1917. Serial No. 179,462. 17 Claims. (Cl. 171—324.)



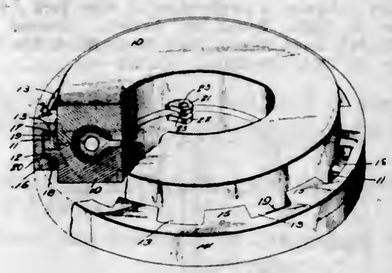
4. In a dynamo electric machine, the combination of a casing; a brush holder ring, adjustably secured to said casing and provided with an insulating washer on each side thereof; a brush holder secured to said ring and insulated therefrom by said washers; and a brush holder adjustably secured to said ring and insulated therefrom by said washers.

1,375,659. SCREEN. HEINRICH ILLIG, Frankfort-on-the-Main, Germany. Filed Feb. 16, 1915. Serial No. 8,706. 1 Claim. (Cl. 95—81.)



A screen for the photo-mechanical process, consisting of a sheet of transparent material having formed in one of its surfaces depressions leaving a net of transparent lines crossing each other at uniform angles, said depressions being filled with an opaque material to constitute opaque fields, said transparent lines and opaque fields being flush to form a plane surface.

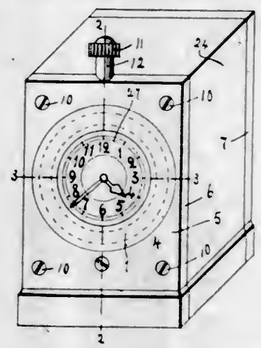
1,375,660. INTERLOCKING MOLD. KARL B. KILBORN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 14, 1917. Serial No. 207,121. 2 Claims. (Cl. 18—43.)



1. A mold comprising complemental annular mold sections providing an annular mold chamber between them, means for holding the sections against independent turning movement and means coöperating with the sections and turnable about them for drawing the sections together and holding them in their drawn together relation.

2. A vulcanizing mold for tires consisting of separate annular complemental sections, the mating parts of which are provided with grooves for the reception of a tire carcass, outwardly projecting lugs on the periphery of each of said sections, the lugs on one of the sections being adapted to engage and aline with the lugs on the other section when the sections are mated, and said lugs being provided with inclined faces opposite to the engaging faces of the lugs, a circular band provided with spaces through which the alined lugs on the mold sections are passed, and with two rows of inwardly projecting lugs, the lugs in one row being in alinement with the lugs in the other row and adapted to fit in the spaces between the lugs on the mold sections, and said lugs on the circular band being provided with inclined faces adapted to engage the first mentioned inclined faces when the circular band is turned to press the mold sections together, and means to prevent twisting or turning of the mold sections when the circular band is turned relatively to the mated mold sections.

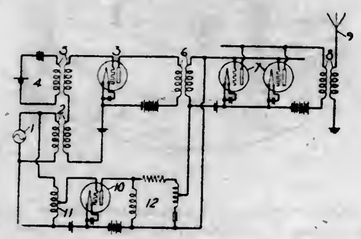
1,375,661. WATCH-MOVEMENT CASE. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Nov. 20, 1920. Serial No. 425,352. 2 Claims. (Cl. 58—56.)



2. A mask for photographic printing machines comprising rods detachably secured to each other, a right-angled plate slidably mounted thereon and a pair of other plates each one of which is parallel to one arm of said right-angled plate and slidably mounted on rods of the said mask in position to form with said right-angled plate a contained rectangle of any desired size.

REISSUES.

15,089. RADIOTELEPHONY. CARL R. ENGLUND, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 3, 1920. Serial No. 362,961. Original No. 1,258,548, dated Mar. 5, 1918, Serial No. 83,504, filed Mar. 11, 1916. 20 Claims. (Cl. 250—6.)

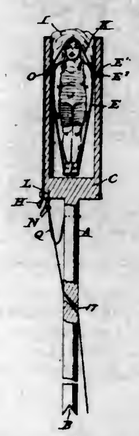


1. A radio transmitting system comprising in combination means for generating and modulating high frequency oscillations, means for impressing upon said modulated oscillations an unmodulated oscillation of opposite phase, and means for amplifying and transmitting the resultant of said oscillations.

15,090. PROCESS FOR RECOVERING CYANOGEN COMPOUNDS. EDWARD VICTOR ESPENHAHN, East Orange, N. J. Filed Jan. 17, 1921. Serial No. 438,046. Original No. 1,315,219, dated Sept. 9, 1919, Serial No. 178,943, filed July 6, 1917. 14 Claims. (Cl. 23—13.)

14. In a process for recovering cyanogen compounds, forming a solution of a complex cyanogen compound, crystallizing such complex cyanogen compound from the solution, treating the crystallized complex cyanogen compound with acid to generate hydrocyanic acid and an insoluble complex cyanogen compound.

15,091. AERIAL TOY PARACHUTE. THOMAS F. POWELL, Retsil, Wash. Filed Jan. 31, 1921. Serial No. 441,694. Original No. 1,362,894, dated Dec. 21, 1920, Serial No. 355,969, filed Feb. 3, 1920. 3 Claims. (Cl. 46—37.)



1. An aerial toy comprising an arrow shaft with a receptacle at one end, a figured toy with parachute adapted to be contained within said receptacle, a rubber band for releasing the toy from the receptacle, and means for automatically releasing said toy at a predetermined time.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 19, 1921.

[PUBLISHED APRIL 23, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 108,268. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AKTIEBOLAGET TIDAN, Mariestad and Leksberg, Sweden. Filed Jan. 3, 1918.

UNICA

Particular description of goods.—Articles Made from Vulcanized Fiber—Namely, Toothed Wheels and Pickers for Looms.

Claims use since July, 1899.

Ser. No. 109,057. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY MUNDELL FRECK, Columbus, Ohio. Filed Feb. 18, 1918.

SAF-T-LAX

The word "Saf-T-Lax."

Particular description of goods.—Laxative and Liver Pills.

Claims use since March, 1917.

Ser. No. 109,847. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MIDLAND MOTOR CAR AND TRUCK COMPANY, Oklahoma, Okla. Filed Mar. 28, 1918.



No claim is made to the exclusive use of the words "Oklahoma City, Oklahoma" apart from the mark as shown.

Particular description of goods.—Motor Cars and Trucks.

Claims use since Jan. 15, 1918.

Ser. No. 115,550. (CLASS 38. PRINTS AND PUBLICATIONS.) HERALD-LEADER COMPANY, Menominee, Mich. Filed Jan. 31, 1919.

CLOVER-LAND

Particular description of goods.—Illustrated Magazine Published Monthly.

Claims use since the 15th day of January, 1916.

Ser. No. 116,122. (CLASS 15. OILS AND GREASES.) PENN LUBRIC OIL COMPANY, Kansas City, Mo. Filed Feb. 24, 1919.



No claim being made to the words "Products Stand for Quality," "Kansas City, Mo.," and "Pennsylvania Oils."

Particular description of goods.—Motor and Engine Oil, Lubricating Oils and Greases, and Carbonless Motor-Oil.

Claims use since Dec. 27, 1916.

Ser. No. 118,273. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PORTER COMPANY, Chicago, Ill. Filed May 8, 1919.



Applicant disclaims the right to the exclusive use of the words "Guaranteed Complete Satisfaction or Money

Refunded" and the diagrammatic representation of a spark-plug apart from the mark shown by the drawing.
Particular description of goods.—Spark-Plugs.
Claims use since Mar. 1, 1919.

Ser. No. 119,175. (CLASS 39. CLOTHING.) PHIL. WALCOFF & CO., INC., New York, N. Y. Filed June 3, 1919.

TRIPPELBILT

Particular description of goods.—Boys' Outer Clothing—Namely, Coats, Vests, Trousers, and Overcoats.
Claims use since May 12, 1919.

Ser. No. 120,982. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BADGER MANUFACTURING CORPORATION, Milwaukee, Wis. Filed July 28, 1919.



Particular description of goods.—Bumpers, Creepers, Steering-Wheels, Luggage-Carriers, Accelerators, Footrests, and Robe and Foot Rails.
Claims use since July 1, 1918.

Ser. No. 122,841. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LYNN RUBBER MANUFACTURING COMPANY, Warren, R. I. Filed Sept. 18, 1919.

Lynco

Particular description of goods.—Arch-Supporters and Bunion-Protectors.
Claims use since March, 1918.

Ser. No. 123,072. (CLASS 39. CLOTHING.) MENGART KNITTING MILLS, New York, N. Y. Filed Sept. 24, 1919.



Particular description of goods.—Sweaters, Mufflers, Caps, and Hats for Ladies and Girls.
Claims use since Aug. 5, 1919.

Ser. No. 123,234. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BEAVER MACHINE & TOOL CO., INC., Newark, N. J. Filed Sept. 29, 1919.

BEAVER

Particular description of goods.—Electric Switches, Switch-Plates, Switch-Receptacles, Feed-Through Switches, Canopy-Switches, Electric Sockets, Push-Sockets, Pull-Sockets, Key-Sockets, Cut-Outs, Plugs, Wall-Receptacles, Attachment-Plugs, Fuse-Receptacles, Fuse-Boxes, and Rosettes.
Claims use since Jan. 1, 1918.

Ser. No. 124,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMPSON AND CAPPER, LIMITED, Liverpool, England. Filed Nov. 12, 1919.

QUINPHOS

Particular description of goods.—General Tonic.
Claims use since the year 1880.

Ser. No. 124,889. (CLASS 39. CLOTHING.) GUTHRIE & COMPANY, LIMITED, Singapore, Straits Settlements, and London, England. Filed Nov. 14, 1919.



Particular description of goods.—Wearing-Apparel for Men and Women—Namely, Coats and Suits; Underwear Made of One, Two, and Three Piece Garments and of Knitted Fabric and Textile Fabric; Hosiery, Neckties, Dress and Work Shirts Made of Flannel and Cotton, Negligée Shirts, Nightgowns, Pajamas, Smocks, and Overalls.
Claims use since February, 1910.

Ser. No. 125,115. (CLASS 12. CONSTRUCTION MATERIALS.) MCPHEE CEMENT COMPANY, Scranton, Pa. Filed Nov. 20, 1919.



In the trade-mark as used the representation of flame forming a background for the word "Hybond" is in red.
Particular description of goods.—High-Temperature Cement.
Claims use since Oct. 1, 1919.

Ser. No. 125,413. (CLASS 2. RECEPTACLES.) WALTHAM BAG & PAPER COMPANY, Waltham, Mass. Filed Nov. 28, 1919.



Particular description of goods.—Paper Bags and Paper Boxes.
Claims use since Sept. 20, 1919.

Ser. No. 125,951. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ELECTRIC ARC CUTTING AND WELDING COMPANY, Newark, N. J. Filed Dec. 13, 1919.

NEW-ARC

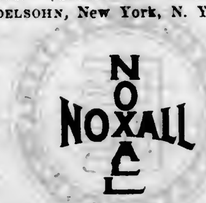
Particular description of goods.—Metal-Welding Electrodes.
Claims use since Sept. 1, 1919.

Ser. No. 126,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEYTON PACKING COMPANY, Charleston, W. Va., and El Paso, Tex. Filed Jan. 2, 1920.



No claim being made to the exclusive right to the use of the word "Products" apart from the mark shown in the drawing.
Particular description of goods.—Cured Hams and Bacon and Lard.
Claims use since the 1st day of May, 1919.

Ser. No. 127,076. (CLASS 39. CLOTHING.) BRUMMEL & MENDELSOHN, New York, N. Y. Filed Jan. 13, 1920.



Particular description of goods.—Ladies', Men's, and Children's Hose, Ladies' and Children's Vests, Ladies' Pants; Ladies', Men's, and Boys' Knitted Union-Suits; Men's and Boys' Knitted Shirts, Men's and Boys' Knitted Drawers, and Bathing-Suits.
Claims use since January, 1895.

Ser. No. 127,077. (CLASS 39. CLOTHING.) BRUMMEL & MENDELSOHN, New York, N. Y. Filed Jan. 13, 1920.



In the drawing the circular border and the cross therein, merging therewith, are lined for red, indicating a red coloration, while the four substantially-triangular areas between the border and the arms of the cross are lined for gold, indicating a gold coloration.
Particular description of goods.—Ladies', Men's, and Children's Hose, Ladies' and Children's Vests, Ladies' Pants; Ladies', Men's, and Boys' Knitted Union-Suits; Men's and Boys' Knitted Shirts, Men's and Boys' Knitted Drawers, and Bathing-Suits.
Claims use since January, 1895.

Ser. No. 127,118. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HORACE E. CONKLIN, Binghamton, N. Y. Filed Jan. 14, 1920.



Particular description of goods.—Timothy Seed.
Claims use since November, 1873.

Ser. No. 127,514. (CLASS 7. CORDAGE.) DIEGO MARCIANI, Hackensack, N. J. Filed Jan. 23, 1920.



Particular description of goods.—Candies Called Caramels.
Claims use since July 1, 1919.

Ser. No. 128,102. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP COMPANY, Los Angeles, Calif. Filed Feb. 7, 1920.



The trade-mark consisting of a fanciful picture of a king inclosed within a circle, the circle extending beyond the confines of a rectangular background and the whole containing the words "Washing Machine Soap," and the words "White King" appearing above the rectangular background. No claim is made herein to the words "Washing Machine Soap" apart from the other features of the mark.

Particular description of goods.—Soaps.
Claims use since Oct. 1, 1919.

Ser. No. 128,515. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EMIL MORRIS, Detroit, Mich. Filed Feb. 17, 1920.

ADMIRATION

Consisting of the word "Admiration."
Particular description of goods.—Cutlery—viz., Razors.
Claims use since Dec. 30, 1919.

Ser. No. 128,626. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FRANK B. WILLIAMS, Dover, N. H.; Mary Elizabeth Williams, Stacy L. Hanson, and Philip C. Brownall, executors of the estate of said Frank B. Williams, deceased, assignors to I. B. Williams and Sons, Dover, N. H., a Corporation of New Hampshire. Filed Feb. 19, 1920.

COCHECO

Particular description of goods.—Rawhide Side Lace-Leather.
Claims use since about the 1st day of January, 1881.

Ser. No. 129,675. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALADAR PACZ, Cleveland Heights, Ohio. Filed Mar. 13, 1920.

ALPAX

Particular description of goods.—Aluminum Alloys, Both in the Raw or Ingot Form and in the Form of Unfinished Castings and Structures.
Claims use since Mar. 2, 1920.

Ser. No. 129,727. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EM. J. LEMIRE, Manchester, N. H. Filed Mar. 15, 1920.



Particular description of goods.—Aluminum-Polish, Auto Spot and Road-Oil Remover, Brass and Metal Polish, Black Liquid Shoe-Polish, Dry-Cleaning Liquid Soap, Glass-Cleaner, Leather-Life, Nickel-Polish; Frost-Remover, a Product Used for Removing Frost from Windshields, Windows, and Door-Panes; Rug and Carpet Cleaner, Shoe Paste Polish, Stove Liquid Polish, Stove Paste Polish, Washing-Tablet, Waterproofing for Boots and Shoes, White-Cream Silver-Polish.
Claims use since about Feb. 1, 1920.

Ser. No. 129,889. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GREYHOUND MOTORS CORPORATION, New York, N. Y. Filed Mar. 18, 1920.



Particular description of goods.—Automobile Bodies and Frames.
Claims use since Sept. 10, 1919.

Ser. No. 130,492. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Apr. 1, 1920.

MULTI-MILE

Particular description of goods.—Rubber or Rubber and Fabric Tires and Tubes for Vehicles.
Claims use since June 19, 1917.

Ser. No. 131,523. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ELLIOTT-FISHER COMPANY, Harrisburg, Pa. Filed Apr. 23, 1920.



No claim is made to the word "Machines" apart from the mark shown in the drawing.
Particular description of goods.—Typewriting-Machines, Combined Writing-Adding Machines, and Platens.
Claims use since April, 1919.

Ser. No. 131,848. (CLASS 39. CLOTHING.) THE WESTERN SHIRT COMPANY, New York, N. Y. Filed Apr. 29, 1920.



Particular description of goods.—Work-Shirts.
Claims use since Jan. 1, 1920.

Ser. No. 131,920. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RODSTEIN & HYMAN, New York, N. Y. Filed May 1, 1920.

SURE-EDGE

Particular description of goods.—Silk and Cotton Ribbons in the Piece.
Claims use since Jan. 15, 1920.

Ser. No. 132,054. (CLASS 12. CONSTRUCTION MATERIALS.) THOMAS MACK, Chicago, Ill. Filed May 5, 1920.



Particular description of goods.—Flooring and Flooring Materials of All Kinds—Namely, Tile Flooring, Stone Flooring, Wood Flooring, Steel Flooring, Tin Flooring, Concrete Flooring, and Cement and Concrete for Flooring.
Claims use since on or about May 1, 1914.

Ser. No. 133,095. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SAMUEL KLEIN, Philadelphia, Pa. Filed May 29, 1920.

AIR-O-PLANE

Particular description of goods.—Toy Cars for Children.
Claims use since Nov. 1, 1919.

Ser. No. 133,468. (CLASS 37. PAPER AND STATIONERY.) HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Filed June 9, 1920.

OVERSEAS

Particular description of goods.—Paper for General Printing and Writing Purposes and Mailing-Envelops.
Claims use since on or about July 11, 1918.

Ser. No. 133,510. (CLASS 15. OILS AND GREASES.) WESTERN PETROLEUM CO., INCORPORATED, Chicago, Ill. Filed June 9, 1920.

PENDOL

Particular description of goods.—Motor-Oil, Cup-Grease, Transmission-Grease, Transmission and Differential Grease, Transmission-Oil, and Tractor-Oil.
Claims use since Jan. 16, 1920.

Ser. No. 133,960. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. A. W. DAVIS, CORP., New York, N. Y. Filed June 21, 1920.

WOOLWEVE

Particular description of goods.—Wool and Fiber Carpets and Rugs.
Claims use since Jan. 1, 1915.

Ser. No. 134,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK A. BEEDE, Orange, Vt. Filed June 23, 1920.



Particular description of goods.—Medicine for Use in the Treatment of Cholera, Blackhead, and Diseases of the Digestive Tract of Poultry.
Claims use since Nov. 1, 1919.

Ser. No. 134,715. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUISVILLE PAINT MFG. CO., Louisville, Ky. Filed July 8, 1920.

ELKHORN

Particular description of goods.—Ready-Mixed and Paste Paints, Varnishes, Wood-Stains, and Paint Enamels.
Claims use since 1908.

Ser. No. 134,752. (CLASS 39. CLOTHING.) CHARLES H. O'NEILL, Woodbury, N. J. Filed July 9, 1920.

--NU-WA--

Particular description of goods.—Collars.
Claims use since May 17, 1920.

Ser. No. 135,204. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EAGLE BRASS FOUNDRY COMPANY, Seattle, Wash. Filed July 20, 1920.

BRONEL

Trade-mark: The coined word "Bronel."
Particular description of goods.—Globe-Valves, Angle-Valves, Cross-Valves, Check-Valves, Relief-Valves, Cocks, Bibs, Faucets, Regulating-Valves, Nozzles, Pipe-Fittings, Corporation-Fittings, Plumbing Connections, Strainers, Flanges, and Plugs.
Claims use since Mar. 1, 1920.

Ser. No. 135,434. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) FERDINAND J. ROESER, Rochester, N. Y. Filed July 26, 1920.

MALT-O

Particular description of goods.—Concentrated Barley-Malt for Use in Beverages.
Claims use since Feb. 1, 1920.

Ser. No. 136,043. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SCINTILLA, Solothurn, Switzerland. Filed Aug. 12, 1920.

SCINTILLA

Consisting of the word "Scintilla."
Particular description of goods.—Engines—Namely, Oil, Petrol, Hydraulic, Gas, and Air—and Parts Thereof—viz., Carbureters and Injectors, Ball-Bearings and Borings, Pumps and Compressors and Parts Thereof, Special Knives and Tools for Magneto-Adjusting Purposes, and Fans as Parts of Machinery.
Claims use since June 19, 1917.

Ser. No. 136,367. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) EAGLE BRASS FOUNDRY COMPANY, Seattle, Wash. Filed Aug. 23, 1920.

BRONEL

Trade-Mark: the coined word "Bronel."
Particular description of goods.—Ingots of Non-Ferrous Alloys, Bars and Cylinders of Bearing Metal, Castings for Machinery Bushings and Bearings, Castings for Brass and Bronze Machinery Parts, Castings for Gears and Gear-Blanks, Castings for Valve Parts and Trolley-Wheels, Castings for Brass and Bronze Ship-Fittings.
Claims use since Mar. 1, 1920.

Ser. No. 136,458. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BUYERS EXPORT AGENCY, INC., New York, N. Y. Filed Aug. 25, 1920.

Ozonated

Particular description of goods.—Flavors of Various Kinds for Making Non-Alcoholic Beverages.
Claims use since Mar. 1, 1920.

Ser. No. 136,463. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) H. E. DAVIS CO., Freeport, Me. Filed Aug. 25, 1920. Under ten-year proviso.

Davis

Particular description of goods.—Leather Shoes.
Claims use since 1875.

Ser. No. 136,525. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FANNIE J. LONDON, New York, N. Y. Filed Aug. 26, 1920.

Fan-Toi

Particular description of goods.—Toilet Preparations—viz., Sachet, Toilet Water, Face-Powder, Rouge, Cosmetics—viz., Lip-Sticks, Cold-Cream, Eyebrow-Pencils, and Vanishing Cream; Perfumes, Talcum Powder, Nail-Polish, Nail-Tint, Cuticle-Remover, Face-Astringent, Liquid Face-Powder, Hand-Lotion, Hair-Tonic, and Incense.
Claims use since Aug. 9, 1920.

Ser. No. 136,894. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GABRIELLE E. JACKSON, New York, N. Y. Filed Sept. 7, 1920.

PEGGY STEWART
NAVY GIRL



The picture of the girl shown on the drawing is the portrait of Miss Virginia Byington.
Particular description of goods.—Candy.
Claims use since on or about Aug. 18, 1920.

Ser. No. 136,918. (CLASS 12. CONSTRUCTION MATERIALS.) JUNIUS H. STONE, New York, N. Y. Filed Sept. 7, 1920.

HEARWEL

Particular description of goods.—Prepared Felt for Construction Purposes.
Claims use since May 20, 1920.

Ser. No. 136,964. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BRIDGEPORT COACH LACE CO., Bridgeport, Conn. Filed Sept. 9, 1920.

PROTEX

The lines appearing in the said drawing being indicative of shading.
Particular description of goods.—Coach and Furniture Fabric Piece Goods—Namely, Wool, Mohair, Velours, and Cotton Automobile-Seat Coverings.
Claims use since Apr. 17, 1920.

Ser. No. 137,231. (CLASS 39. CLOTHING.) MILWAUKEE GLOVE COMPANY, Milwaukee, Wis. Filed Sept. 15, 1920.

MILWAUKEE SIGNAL

Particular description of goods.—Leather and Cloth Gloves and Leather and Cloth Mittens.
Claims use since Aug. 21, 1908.

Ser. No. 137,408. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CLAYTON-WRIGHT LTD., Birmingham, England. Filed Sept. 21, 1920.

CLAYRITE

Particular description of goods.—View-Mirrors and Windshields for Use with Cycles and Motor-Vehicles.
Claims use since June 7, 1919.

Ser. No. 137,550. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) VACUUM BELTING COMPANY, Indianapolis, Ind. Filed Sept. 23, 1920.

VACUUM

Particular description of goods.—Pigskin and All Kinds of Leather, Fiber, Rubber, Textile, Textile and Rubber, and Textile and Composition Belting.
Claims use since Aug. 10, 1920.

Ser. No. 137,610. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GELATOID CORPORATION, New York, N. Y. Filed Sept. 25, 1920.

GELATOID

Particular description of goods.—Translucent Gelatinous Sheets.
Claims use since May 10, 1920.

Ser. No. 137,666. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Sept. 27, 1920.

FAH-GA"

Particular description of goods.—Silk Piece Goods.
Claims use since October, 1919.

Ser. No. 137,667. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Sept. 27, 1920.

"AFGAR"

Particular description of goods.—Silk Piece Goods.
Claims use since January, 1920.

Ser. No. 137,668. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Sept. 27, 1920.

DOVE-KOO

Particular description of goods.—Silk Piece Goods.
Claims use since February, 1920.

Ser. No. 137,669. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Sept. 27, 1920.

KRINKLEFILE

Particular description of goods.—Silk Piece Goods.
Claims use since April, 1920.

Ser. No. 137,753. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO MICA CO., Valparaiso, Ind. Filed Sept. 29, 1920.

MICABOND
THE STANDARD MICA INSULATION

The words "The Standard Mica Insulation" are disclaimed apart from the other features of the mark except in the particular relation used and shown.

Particular description of goods.—Built-Up Mica Insulation for Commutator-Segments, Flexible Insulating-Sheets for Transformers, Magnet-Coils, and the Like, and Insulating Compounds for Electrical Purposes.

Claims use since the year 1900.

Ser. No. 137,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIMON LEVI COMPANY, San Diego, Calif. Filed Sept. 30, 1920.

"400"

Particular description of goods.—Coffee.

Claims use since 1915.

Ser. No. 137,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL NICHOLSON, Worcester, Mass. Filed Oct. 2, 1920.

"NATEWON"

Particular description of goods.—Medicine for the Treatment of Epilepsy and Nervous Troubles.

Claims use since Sept. 15, 1920.

Ser. No. 138,127. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD L. KILCOYNE, Wilkes-Barre, Pa. Filed Oct. 9, 1920.

Indian Queen Bitters

No claim being made to the word "Bitters" apart from the mark shown.

Particular description of goods.—A General Medicinal Tonic.

Claims use since July 15, 1920.

Ser. No. 138,134. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NATIONAL PHARMACEUTICAL COMPANY, Cleveland, Ohio. Filed Oct. 9, 1920.

ORA D' MYO

Particular description of goods.—Toilet Preparations—to wit, Perfumes, Talc, Face-Powder, Rouge, Toilet Water, and Sachet.

Claims use since on or about Apr. 1, 1920.

Ser. No. 138,154. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. J. WHITE, LIMITED, New York, N. Y. Filed Oct. 9, 1920.

Vestal Brand

No claim being made to the word "Brand" apart from the mark shown.

Particular description of goods.—Laxative Medicines.

Claims use since Aug. 10, 1920.

Ser. No. 138,163. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. F. ELMBERG COMPANY, Parkersburg, Iowa. Filed Oct. 11, 1920.

ELMCO

Particular description of goods.—Concrete-Mixers, Feed-Grinders, Saw-Frames, Pump-Jacks, Concrete and Post Molds.

Claims use since on or about Apr. 1, 1919.

Ser. No. 138,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. H. PHARMACAL CO., (INC.) Chicago, Ill. Filed Oct. 11, 1920.

DEPILIS

Particular description of goods.—Preparation for Removing Hair.

Claims use since on or about May 30, 1917.

Ser. No. 138,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. SMITH, New York, N. Y. Filed Oct. 14, 1920.

PYORRH-A-TONE

Particular description of goods.—Mouth-Wash.

Claims use since Jan. 15, 1920.

Ser. No. 138,335. (CLASS 37. PAPER AND STATIONERY.) FRANCIS PRATT & SON, Somerville, Mass. Filed Oct. 15, 1920.

TRADE MARK

No claim is made to the words "Trade Mark" except as shown in the drawing.

Particular description of goods.—Metallic Pen-Points.

Claims use since 1895.

Ser. No. 138,416. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLIVER WYNNE, Norfolk, Va. Filed Oct. 16, 1920.

SOUTHERN QUEEN

Particular description of goods.—Lard Substitute Composed of Cotton Seed Oil and other Ingredients.

Claims use since Sept. 27, 1920.

Ser. No. 138,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLIVER WYNNE, Norfolk, Va. Filed Oct. 16, 1920.

Wynne's Winner

Particular description of goods.—Lard Substitute Composed of Cotton-Seed Oil and other Ingredients.

Claims use since Sept. 27, 1920.

Ser. No. 138,418. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLIVER WYNNE, Norfolk, Va. Filed Oct. 16, 1920.

PRIDE OF NORFOLK

Particular description of goods.—Lard Substitute Composed of Cotton-Seed Oil and other Ingredients.

Claims use since Sept. 27, 1920.

Ser. No. 138,501. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAURA B. LEWIS, New York, N. Y. Filed Oct. 19, 1920.

Mme L B Lewis

Consisting of the abbreviation and name "Mme. L. B. Lewis," the said name being the authentic signature of the applicant.

Particular description of goods.—Medicinal Preparation for the Treatment of Rheumatism, Stiff and Painful Joints, and Aching Feet.

Claims use since Sept. 11, 1920.

Ser. No. 138,677. (CLASS 39. CLOTHING.) HUDSON HOSIERY CO., Waterbury, Conn. Filed Oct. 22, 1920.

EVERYWOMAN

Particular description of goods.—Hosiery.

Claims use since May 1, 1920.

Ser. No. 138,767. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE INTERNATIONAL CHEMICAL COMPANY, Cleveland, Ohio. Filed Oct. 25, 1920.

Mothol

Particular description of goods.—Chemical Insect-Exterminators.

Claims use since about Dec. 15, 1919.

Ser. No. 138,791. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRAFFIC PUBLISHING COMPANY, New York, N. Y. Filed Oct. 25, 1920.

The FREIGHT TRAFFIC RED BOOK

Particular description of goods.—Publications. Publication is made once each year and oftener when sufficient changes in legislation and rulings of the Interstate Commerce Commission require new editions.

Claims use since August, 1920.

Ser. No. 138,833. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A./S. DET ALMINDELIGE HANDELS-KOMPAGNI, Copenhagen, Denmark. Filed Oct. 27, 1920.

ALMINKO

Particular description of goods.—Dried Fruits, Canned Fruits, and Canned Fish.

Claims use since February, 1919.

Ser. No. 138,927. (CLASS 48. THREAD AND YARN. SENOR & WERTHEIM, INC., New York, N. Y. Filed Oct. 28, 1920.



No claim being made to the words "Second to None, Lustre Yarn."

Particular description of goods.—Artificial-Silk Yarn.
Claims use since July 15, 1920.

Ser. No. 138,933. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WARE CHEMICAL CO., Dallas, Tex. Filed Oct. 28, 1920.

WARE'S
RED POWDER

Particular description of goods.—Remedy for Diarrhea and other Diseases of the Stomach and Bowels for Children and Adults.
Claims use since about Jan. 1, 1891.

Ser. No. 138,934. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WARE CHEMICAL CO., Dallas, Tex. Filed Oct. 28, 1920.

WARE'S

Particular description of goods.—Medicinal Powders and Tablets for Diseases and Derangement of the Stomach and Bowels for Children and Adults.
Claims use since Jan. 1, 1891.

Ser. No. 138,943. (CLASS 23. CUTLERY, MACHINERY, TOOLS, AND PARTS THEREOF.) THE COLLINS COMPANY, Collinsville, Conn. Filed Oct. 29, 1920. Under ten-year proviso.



Particular description of goods.—Axes, Hatchets, Adzes, Bush-Hooks, Machetes, Saws, Chisels, Knives, Swords, Sickles, Mattocks, Pickaxes, Shovels, Spades, Crowbars, Picks, Hoes, Mill-Picks, Sledges, Hammers, Wedges, Wrenches, Augers, Boring-Bits, Earth and Rock Drills, Cavadores, Barretones, Tarpalas, Palas, Tercados, Jincolas, Barras, Lanzas, Lancitas, Arpones, Cleavers, and Bayonets.
Claims use since in or about the year 1826.

Ser. No. 139,013. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CHARLES G. SUMMERS CO., Baltimore, Md. Filed Oct. 30, 1920.

LA PALOMA



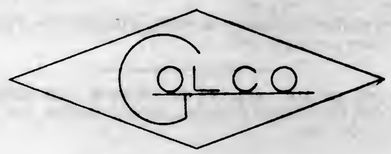
Particular description of goods.—Canned Vegetables.
Claims use since January, 1920.

Ser. No. 139,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER J. HIRSCH CO., Chicago, Ill. Filed Nov. 8, 1920.

TRY-ME

Particular description of goods.—Peanut-Butter.
Claims use since the year 1914.

Ser. No. 139,396. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GOLCO SANITARY SYSTEM, INC., Philadelphia, Pa. Filed Nov. 9, 1920.



Particular description of goods.—Toilet-Paper Holders and Fixtures Used in Connecting Same, Grab-Rails, Soap-Dishes, Tumbler-Holders, Towel-Racks, Sponge-Holders, Bathtubs, Lavatories, Water-Closet Bowls, Toothbrush-Holders, and Water-Closet Seats.
Claims use since May, 1916.

Ser. No. 139,428. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SIDNEY PARIS, New York, N. Y. Filed Nov. 9, 1920.



Particular description of goods.—Pleasure-Automobiles.
Claims use since Feb. 9, 1918.

Ser. No. 139,534. (CLASS 39. CLOTHING.) CLARENCE C. HEMMICK, Chicago, Ill. Filed Nov. 11, 1920.

TIP-TAB

Particular description of goods.—Men's Collars, Cuffs, Dress and Negligée Shirts, Neckties, and Textile One-Piece-Garment Underwear.
Claims use since Oct. 26, 1920.

Ser. No. 139,653. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Nov. 13, 1920.



Exclusive use of the words "Save a Dollar" are disclaimed apart from the mark as shown.

Particular description of goods.—Shoes for Men Made of Leather, Rubber, Fabric, and Combinations of the Same.
Claims use since Aug. 15, 1920.

Ser. No. 139,686. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UNITED STATES TACK CO., New Bedford, Mass. Filed Nov. 15, 1920.



Particular description of goods.—Shoe-Tacks, Channel-Nails, Clenching-Nails, and Cobblers' Nails.
Claims use since August, 1920.

Ser. No. 139,733. (CLASS 37. PAPER AND STATIONERY.) CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass. Filed Nov. 17, 1920.

VULCAN

Particular description of goods.—Paper for General Printing and Writing Purposes and Mailing-Envelops.
Claims use since on or about Apr. 1, 1898.

Ser. No. 139,735. (CLASS 37. PAPER AND STATIONERY.) CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass. Filed Nov. 17, 1920.

ROYAL SEAL

Particular description of goods.—Paper for General Printing and Writing Purposes and Mailing-Envelops.
Claims use since on or about May 1, 1905.

Ser. No. 139,793. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRENCH AMERICAN IMPORT CO., Boston, Mass. Filed Nov. 18, 1920.

"FRENCH AMERICAN"



Particular description of goods.—Hand-Made Lace Pieces.
Claims use since Jan. 1, 1910.

Ser. No. 139,809. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Nov. 18, 1920.

TEHFU

Particular description of goods.—Silk Piece Goods.
Claims use since Sept. 16, 1920.

Ser. No. 139,812. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Nov. 18, 1920.

MELODEE

Particular description of goods.—Silk Piece Goods.
Claims use since September, 1920.

Ser. No. 139,936. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920.

KOTOLITH

Particular description of goods.—Paper for Poster and Label Work.
Claims use since Dec. 27, 1919.

Ser. No. 139,937. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920.

WHITE ROSE

Particular description of goods.—Writing-Paper.
Claims use since Mar. 25, 1919.

Ser. No. 139,943. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920.

DIAMOND "B"

Particular description of goods.—Mailing or Correspondence Envelops.
Claims use since 1905.

Ser. No. 139,954. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920.

FINETEX

Particular description of goods.—Bristol-Board.
Claims use since May 26, 1919.

Ser. No. 140,098. (CLASS 12. CONSTRUCTION MATERIALS.) THE EXCELLO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Nov. 24, 1920.

EVERTITE

Particular description of goods.—Boiler-Setting Cement and Glass-Setting Cement or Cement Putty.
Claims use since Jan. 1, 1916.

Ser. No. 140,181. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Nov. 26, 1920.

HOLENCO

Particular description of goods.—Textile Fabrics in the Piece—Namely, Dress Goods of Worsted and Wool.
Claims use since Oct. 1, 1920.

Ser. No. 140,316. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

CENTURY

Particular description of goods.—Bedspreads.
Claims use since the year 1901.

Ser. No. 140,318. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

Knickerbocker

Particular description of goods.—Bedspreads.
Claims use since the year 1901.

Ser. No. 140,323. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

RESTFUL

Particular description of goods.—Bedspreads.
Claims use since the year 1901.

Ser. No. 140,341. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) T. J. MITCHELL & CO. INC., New York, N. Y. Filed Nov. 27, 1920.

B-135

Chamirose

Particular description of goods.—Satins in the Piece.
Claims use since 1916.

Ser. No. 140,363. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE WHYT E NAML SPECIALTY CO., INC., Brooklyn, N. Y. Filed Nov. 27, 1920.

SANY E NAML

Particular description of goods.—Bathroom-Fixtures of Enameled Ware—viz., Toilet-Paper Holders, Toothbrush-Holders, Tumbler-Holders, Standing Soap-Dishes, Wall Soap-Dishes, Bath Soap-Dishes, Towel-Bars, Sponge-Holders, Faucet Soap-Dishes, and Bathroom-Hooks.
Claims use since Jan. 31, 1919.

Ser. No. 140,364. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE WHYT E NAML SPECIALTY CO., INC., Brooklyn, N. Y. Filed Nov. 27, 1920.

WHYR E NAML

Particular description of goods.—Bathroom-Fixtures of Enameled Ware—viz., Toilet-Paper Holders, Toothbrush-Holders, Standing Soap-Dishes, Wall Soap-Dishes, Bath Soap-Dishes, Faucet Soap-Dishes, Bath-Sponge Holders, Tumbler-Holders, Towel-Bars, and Bathroom-Hooks.
Claims use since Jan. 31, 1919.

Ser. No. 140,404. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HENRY PAULSON, Chicago, Ill. Filed Nov. 29, 1920.

"MERITAS"

Particular description of goods.—Watch-Mainsprings and Watch-Glasses.
Claims use since Feb. 15, 1904.

Ser. No. 140,474. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOUTH & CENTRAL AMERICAN COMMERCIAL CO. INC., New York, N. Y. Filed Nov. 30, 1920.



The lining shown on the drawing merely representing shading and no claim being made to the exclusive use of the word "Fabrics" apart from the mark as shown on the drawing.
Particular description of goods.—Cotton, Wool, Silk, and Linen Piece Goods and Mixtures of the Same.
Claims use since August, 1920.

Ser. No. 140,566. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KEENE WASHING PRODUCTS COMPANY, Keene, N. H. Filed Dec. 3, 1920.

SCRUB-NOT

Particular description of goods.—Washing Compounds.
Claims use since Nov. 1, 1920.

Ser. No. 140,667. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) T. MCAVITY AND SONS, LIMITED, St. John, New Brunswick, Canada. Filed Dec. 6, 1920.



No claim being made to the exclusive use of the words "Trade Mark" apart from the mark as shown in the drawing.
Particular description of goods.—Metal Valves for General Use.
Claims use since April, 1890.

Ser. No. 140,685. (CLASS 39. CLOTHING.) J. S. TURNER MANUFACTURING CO., Lowell, Mass. Filed Dec. 6, 1920.

Wannalancit

Particular description of goods.—Leather Boots, Shoes, Slippers, and Moccasins.
Claims use since on or about Mar. 1, 1917.

Ser. No. 140,702. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AMERICAN BODY COMPANY, Dallas, Tex. Filed Dec. 7, 1920.

A·B·C·

Particular description of goods.—Truck-Bodies, Delivery-Bodies, Express-Bodies, Stake Panel-Bodies, Knock-down Bodies, and Truck-Platforms.
Claims use since December, 1919.

Ser. No. 140,720. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FREDERICK ROBERT HEINICK, San Francisco, Calif. Filed Dec. 7, 1920.

Moinette

Particular description of goods.—Pongee Silk in the Piece.
Claims use since Oct. 1, 1920.

Ser. No. 140,818. (CLASS 38. PRINTS AND PUBLICATIONS.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Dec. 8, 1920.

BEAR

Particular description of goods.—Instruction-Books and Similar Publications Relating to Art-Needlework—Namely, Lesson-Books and Patterns for Art-Needlework; Also Instructions and Lessons on Art-Needlework Issued in the Form of Books, Sheets, or Leaflets Published from Time to Time.
Claims use since about 1900.

Ser. No. 140,835. (CLASS 12. CONSTRUCTION MATERIALS.) P. GALASSI CORPORATION, Boston, Mass. Filed Dec. 9, 1920.

TERRAZZOLAY

Particular description of goods.—Sockets and Metallic Strips Used in Laying Composition and Plastic Floors and Walls.
Claims use since Nov. 24, 1920.

Ser. No. 140,852. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE TIPTOES CORPORATION, New York, N. Y. Filed Dec. 9, 1920.

TIP TOE

No claim is made to the words "Save Shoe Tips" apart from the mark shown on the drawing.

Particular description of goods.—Metal Plates to be Applied to Shoe-Tips to Protect Them From Wear.

Claims use since Nov. 24, 1920.

Ser. No. 140,853. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE TIPTOES CORPORATION, New York, N. Y. Filed Dec. 9, 1920.

TIPTOES

Particular description of goods.—Metal Plates to be Applied to Shoe-Tips to Protect Them From Wear.

Claims use since Nov. 24, 1920.

Ser. No. 140,869. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.



GUANACO

The trade-mark consists of the word "Guanaco" and a picture of the animal guanaco.

Particular description of goods.—Wire and Steel or Iron Hoops.

Claims use since January, 1879.

Ser. No. 140,966. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 11, 1920.

SERVISTAN

Particular description of goods.—Wool Rugs.

Claims use since Sept. 27, 1920.

Ser. No. 141,087. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNIVERSAL STAMPING MACHINE COMPANY, Stamford, Conn. Filed Dec. 14, 1920.

UNIVERSAL

Particular description of goods.—Postmarking-Machines Having the Functions of Postmarking, Stamp-Canceling, and Counting Mail, Checks, and Other Commercial Papers, Machines for Metering and Printing Mail, &c., and Commercial Counting and Stamping Machines and Parts Thereof.

Claims use since October, 1909.

Ser. No. 141,099. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THEO. DIETZLER & CO., Hartford, Wis. Filed Dec. 15, 1920.

GREEN RAVEN



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Mar. 1, 1920.

Ser. No. 141,191. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE ROWE CALK & CHAIN COMPANY, Plantsville, Conn. Filed Dec. 16, 1920.

BABY

Particular description of goods.—Traction Devices Consisting of Anchoring-Clamps, Cross-Chains, and Connecting-Hooks for Use on Automobile-Wheels.

Claims use since Nov. 23, 1920.

Ser. No. 141,201. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WHITE ROCK MINERAL SPRINGS COMPANY, Waukesha, Wis., and New York, N. Y. Filed Dec. 16, 1920.

ROCA BLANCA

The trade-mark consists of the words "Roca Blanca," as shown in the accompanying drawing.

Particular description of goods.—Mineral Waters.

Claims use since the year 1910.

Ser. No. 141,298. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE ESTATE STOVE COMPANY, Hamilton, Ohio. Filed Dec. 20, 1920.

Estate

SUNBURST

Particular description of goods.—Gas Heating Apparatus.

Claims use since Nov. 15, 1920.

Ser. No. 141,305. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOWARD SPECIALTIES COMPANY, INC., New York, N. Y. Filed Dec. 20, 1920.

U'ROWN

The mark consists of the word "U'Rown."

Particular description of goods.—Safety-Razors and Hair-Trimmers.

Claims use since Mar. 1, 1918.

Ser. No. 141,346. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SHOW CASE AND MFG. CO., Detroit, Mich. Filed Dec. 21, 1920.

American Beauty

Particular description of goods.—Soda-Fountains.

Claims use since Apr. 9, 1915.

Ser. No. 141,379. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKELAND CITRUS CO., Lakeland, Fla. Filed Dec. 21, 1920.

SUN MADE

No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Fresh Citrus Fruits.

Claims use since Nov. 15, 1920.

Ser. No. 141,384. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MANNING ABRASIVE CO. INC., Troy, N. Y. Filed Dec. 21, 1920.

Manning Speed-grits



MOHAWK FLINT

No claim being made to the exclusive use of the word "Flint" apart from the mark as shown in the drawing.

Particular description of goods.—Abrasives Coated on Cloth or Paper, or Both.

Claims use since Mar. 19, 1920.

Ser. No. 141,464. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VOLNEY W. MASON & CO. INC., Providence, R. I. Filed Dec. 23, 1920. Under ten-year proviso.



MASON'S
PATENT WHIP HOIST

Particular description of goods.—Hoisting Machinery.

Claims use since Apr. 21, 1888.

Ser. No. 141,505. (CLASS 43. THREAD AND YARN.) JOSEPH D. ROGERS, Paterson, N. J. Filed Dec. 24, 1920.

LIBERTY BRAND



The word "Brand" being disclaimed apart from the mark as shown illustrated.

Particular description of goods.—Silk Yarns.

Claims use since July 5, 1920.

Ser. No. 141,628. (CLASS 11. INKS AND INKING MATERIALS.) H. W. DU BOIS & Co., New York, N. Y., and Boston, Mass. Filed Dec. 29, 1920.

LI-TA-THAN-AIR

Particular description of goods.—Typewriter-Ribbons and Carbon-Paper.
Claims use since Jan. 1, 1909.

Ser. No. 141,649. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 29, 1920.

TRIAM

The lining of the drawing represents as nearly as practicable the appearance of the trade-mark. It is not intended to indicate a particular color.
Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 27, 1907.

Ser. No. 141,652. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 29, 1920.

TRAYMORE

The lining of the drawing represents as nearly as practicable the appearance of the trade-mark. It is not intended to indicate a particular color.
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 1, 1902.

Ser. No. 141,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DRY MILK COMPANY, New York, N. Y. Filed Dec. 30, 1920.

PROTOLAC

Consisting of the word "Protolac."
Particular description of goods.—Casein Food Product.
Claims use since about the 1st of October, 1920.

Ser. No. 141,683. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB MELICOW, New York, N. Y. Filed Dec. 30, 1920.

KEFIR

Consisting of the word "Kefir."
Particular description of goods.—Predigested Food and Fermented-Milk Preparation.
Claims use since about June 1, 1901.

Ser. No. 141,735. (CLASS 43. THREAD AND YARN.) SEA ISLAND THREAD CO. INC., New York, N. Y. Filed Dec. 31, 1920.

HATHREAD

Consisting of the word "Hathread."
Particular description of goods.—Threads and Yarns.
Claims use since Oct. 1, 1920.

Ser. No. 141,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELLIOTT COMMISSION COMPANY, Decatur, Ill. Filed Jan. 3, 1921.

Elliott
COMMISSION COMPANY

Particular description of goods.—Fresh Fruits and Vegetables Packed in Crates.
Claims use since Feb. 1, 1914.

Ser. No. 141,787. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Jan. 3, 1921.



No claim being made to the exclusive use of the term "New York" apart from the mark shown in the drawing.
Particular description of goods.—Piece Goods, Being a Fabric with a Warp of Cotton or of Cotton and Silk Mixed or of Cotton and Artificial Silk Mixed and a Filling of Wool or Mohair or Alpaca, Singly or Combined.
Claims use since Nov. 22, 1920.

Ser. No. 141,788. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Jan. 3, 1921.



No claim being made to the exclusive use of the terms "New York," "Crepe Mohair," and "Pearl Bloom Finish" apart from the mark shown in the drawing.
Particular description of goods.—Piece Goods, Being a Fabric with a Warp of Cotton or of Cotton and Silk Mixed or of Cotton and Artificial Silk Mixed and a Filling of Wool or Mohair or Alpaca, Singly or Combined.
Claims use since Nov. 17, 1920.

Ser. No. 141,799. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL EQUIPMENT COMPANY, Springfield, Mass. Filed Jan. 3, 1921.

CANDY NEWS

Particular description of goods.—Monthly Periodicals.
Claims use since Sept. 1, 1904.

Ser. No. 141,843. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEO. J. PELLETTIERE, Worcester, Mass. Filed Jan. 4, 1921.



The words "Shoe Polish" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Shoe-Polish.
Claims use since January, 1920.

Ser. No. 141,886. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) TITUSVILLE FORGE COMPANY, Titusville, Pa. Filed Jan. 5, 1921.

TIFOCO

Particular description of goods.—Hammered-Steel Forgings.
Claims use since the 17th of December, 1920.

Ser. No. 141,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MELVIN DE GROOTE, Pittsburgh, Pa. Filed Jan. 6, 1921.

TEMPROOF

Particular description of goods.—Soluble Compound-Vanilla Concentrate for Food Purposes.
Claims use since Dec. 20, 1920.

Ser. No. 142,000. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE ATLAS CHAIN CO., LTD., Birmingham, England. Filed Jan. 10, 1921.

ATCO

Particular description of goods.—Drive-Chains.
Claims use since November, 1909.

Ser. No. 142,018. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE JONES & JONES COMPANY, Kingman, Kans. Filed Jan. 10, 1921.



The pictures appearing in the trade-mark being fanciful. Said drawing is lined to indicate the color red. No claim is made to the representation of the tire apart from the mark as shown.
Particular description of goods.—Sheet-Rubber Patches.
Claims use since June 29, 1920.

Ser. No. 142,266. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NILES-BEMENT-POND COMPANY, New York, N. Y. Filed Jan. 14, 1921.

RIGHT LINE

Particular description of goods.—Radial Drills and Attachments Therefor.
Claims use since Nov. 15, 1920.

Ser. No. 142,288. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN & COMPANY, INC., New York, N. Y. Filed Jan. 15, 1921.

WRISTO

Particular description of goods.—Ribbons, and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.
Claims use since June, 1917.

Ser. No. 142,305. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) G. G. ROBERTS CORPORATION, Whitman, Mass. Filed Jan. 15, 1921.

REGAL

Particular description of goods.—Cut Tacks.
Claims use since Jan. 2, 1905.

Ser. No. 142,586. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921.

TRINADA

Particular description of goods.—Cotton Piece Goods.
Claims use since 1917.

Ser. No. 142,599. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921.

PONCETA

Particular description of goods.—Cotton Piece Goods.
Claims use since 1917.

Ser. No. 142,610. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERIK DAHLIN, Clearbrook, Minn. Filed Jan. 22, 1921.

Erik Dahlin

The mark consisting of the facsimile signature of the applicant.
Particular description of goods.—Medicine Used in the Treatment of Coughs, Colds, Catarrh, Bronchitis, Influenza, and Consumption.
Claims use since Sept. 24, 1919.

Ser. No. 142,673. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Jan. 22, 1921.

Strand

Particular description of goods.—Hair-Nets.
Claims use since Jan. 5, 1921.

Ser. No. 142,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MARIET COMPANY, Chicago, Ill. Filed Jan. 24, 1921.



Particular description of goods.—Face-Cream, Face-Powder, Talcum Powder, Liquid Bloom, Tooth-Paste, Shampoo, Rouge, Hair-Dressing, and Depilatory.
Claims use since about July, 1920.

Ser. No. 142,725. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 24, 1921.

VALKYR

Particular description of goods.—Canton-Flannel.
Claims use since Nov. 19, 1920.

Ser. No. 142,726. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 24, 1921.

BELLEFAIR

Particular description of goods.—Batiste in the Piece.
Claims use since Nov. 20, 1920.

Ser. No. 142,727. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 24, 1921.

Fairloom

Particular description of goods.—Silks in the Piece—Namely, Taffeta, Messaline, Crêpe de Chine, and Georgette.
Claims use since Oct. 30, 1920.

Ser. No. 142,730. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 24, 1921.



The word "Ticking" being disclaimed apart from the mark shown.
Particular description of goods.—Ticking in the Piece.
Claims use since Nov. 19, 1920.

Ser. No. 142,749. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Jan. 25, 1921.

Frostkrepe

No claim is made to the word "Krepe" apart from the mark as shown.
Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about Jan. 14, 1921.

Ser. No. 142,780. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) E. M. DART MFG. CO., Providence, R. I. Filed Jan. 26, 1921. Under ten-year proviso.

DART

Particular description of goods.—Metal Pipe-Fittings.
Claims use since Jan. 1, 1895.

Ser. No. 142,787. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Jan. 26, 1921.

Stockinette

Consisting of the word "Stockinette."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Apr. 5, 1919.

Ser. No. 142,788. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Jan. 26, 1921.

Pin Seal

Consisting of the words "Pin Seal."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Nov. 15, 1913.

Ser. No. 142,871. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PETER BARBIERI, Perth Amboy, N. J. Filed Jan. 28, 1921.



No claim is made to the word "Brand" apart from the mark shown.
Particular description of goods.—Sole-Leather.
Claims use since Nov. 1, 1920.

Ser. No. 142,963. (CLASS 38. PRINTS AND PUBLICATIONS.) DIRECT NEWS SERVICE, San Francisco, Calif. Filed Jan. 31, 1921.

DIRECT NEWS SERVICE

Particular description of goods.—Periodical Publication Published Daily.
Claims use since Dec. 21, 1920.

Ser. No. 143,024. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 31, 1921.

CORCO

Particular description of goods.—Sheet-Metal Gas and Oil Stoves and Ovens, Stovepipe, Stovepipe-Elbows, and Flue-Thimbles.
Claims use since Jan. 1, 1921, on sheet-metal stoves and ovens; since Jan. 1, 1900, on stovepipe and stovepipe-elbows, and since about Feb. 15, 1916, on flue-thimbles.

Ser. No. 143,027. (CLASS 12. CONSTRUCTION MATERIALS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 31, 1921.

CORCO

Particular description of goods.—Sheet-Metal Concrete-Forms, Corner Beads and Clips, Corner-Shields, Batten-Strips, Metal Bridging, and Farm-Cupolas.
Claims use since about July 1, 1914, on corner-shields; since July 1, 1916, on corner beads and clips; since about Aug. 1, 1916, on batten-strips; since about Jan. 15, 1917, on barn-cupolas, and since about July 15, 1917, on metal ridging.

Ser. No. 143,121. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ELDRIDGE CHEMICAL COMPANY, Canton, Ohio. Filed Feb. 3, 1921.



The lining on the drawing is for shading only.

Particular description of goods.—Cleaning and Scouring Powder with Incidental Water-Softening Properties.

Claims use since Nov. 1, 1920.

Ser. No. 143,254. (CLASS 11. INKS AND INKING MATERIALS.) THE CITIZENS WHOLESALE SUPPLY COMPANY, Columbus, Ohio. Filed Feb. 7, 1921.



No claim is made for the words "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Black Ink and Red Ink.

Claims use since Nov. 10, 1895.

Ser. No. 143,255. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CITIZENS WHOLESALE SUPPLY CO., Columbus, Ohio. Filed Feb. 7, 1921.



Particular description of goods.—Cleanser, (a Preparation for Household Cleaning;) Sanitary Dish-Washing Compound, Automobile-Soap, Soap Flakes, Washing-Powder, Washing-Machine Flakes.

Claims use since Nov. 10, 1895.

Ser. No. 143,443. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, Wilmington, Del., and New York, N. Y. Filed Feb. 11, 1921.



Particular description of goods.—Cleansing Fluids for Fabrics.

Claims use since Jan. 17, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 19, 1921.

141,305. CRUSHING, CUTTING, GRINDING, MIXING, PULVERIZING, AND SIFTING MACHINERY. PAUL O. ABBÉ INC., New York, N. Y.
Filed August 31, 1920. Serial No. 136,666. PUBLISHED DECEMBER 21, 1920.

141,306. SERGES IN THE PIECE. HARRY ALT, New York, N. Y.
Filed August 2, 1920. Serial No. 135,684. PUBLISHED DECEMBER 14, 1920.

141,307. TIMEPIECES. FRANK W. ALTER, Chicago, Ill.
Filed August 14, 1920. Serial No. 136,110. PUBLISHED DECEMBER 14, 1920.

141,308. ELECTRIC HEADLIGHTS AND PARTS THEREOF. THE ALVO MANUFACTURING CO., Ashland, Ohio.
Filed August 26, 1920. Serial No. 136,499. PUBLISHED DECEMBER 14, 1920.

141,309. CHEWING-GUM. AMERICAN CHICLE COMPANY, New York, N. Y.
Filed September 30, 1920. Serial No. 137,755. PUBLISHED DECEMBER 14, 1920.

141,310. QUENCHED-SPARK GAPS, RADIO RECEIVING SETS, CRYSTAL DETECTORS, INDUCTION-COILS, AND LIGHTNING-SWITCHES. AMERICAN RADIO AND RESEARCH CORPORATION, Medford, Mass.
Filed September 14, 1920. Serial No. 137,162. PUBLISHED DECEMBER 14, 1920.

141,311. VAPORIZING ATTACHMENTS FOR INTERNAL-COMBUSTION ENGINES. AMERICAN SUB-CARBURETOR Co., Portland, Ind.
Filed August 4, 1920. Serial No. 135,775. PUBLISHED DECEMBER 21, 1920.

141,312. MOTOR-CARS—NAMELY, AUTOMOBILES AND MOTOR-TRUCKS. ANDERSON MOTOR COMPANY, Rock Hill, S. C.
Filed June 1, 1920. Serial No. 133,122. PUBLISHED DECEMBER 14, 1920.

141,313. CANTELOUPS. ASSOCIATED FRUIT Co., Chicago, Ill.
Filed June 12, 1920. Serial No. 133,602. PUBLISHED DECEMBER 14, 1920.

141,314. COATING FOR ELECTRIC INSULATION. AUTO SPECIALTIES COMPANY, INC., Baltimore, Md.
Filed September 13, 1920. Serial No. 137,103. PUBLISHED DECEMBER 14, 1920.

141,315. CANNED FRUITS, CANNED BERRIES, AND CANNED VEGETABLES. H. A. BAKER, INC., Sumner, Wash.
Filed June 9, 1920. Serial No. 133,445. PUBLISHED DECEMBER 7, 1920.

141,316. CERTAIN NAMED TOILET PREPARATIONS. BARCLAY & Co., Wilmington, Del., and New York, N. Y.
Filed September 9, 1920. Serial No. 136,967. PUBLISHED DECEMBER 14, 1920.

141,317. TALCUM POWDER. BARCLAY & Co., Wilmington, Del., and New York, N. Y.
Filed September 9, 1920. Serial No. 136,968. PUBLISHED DECEMBER 14, 1920.

141,318. NON-ALCOHOLIC MALTLESS BEVERAGE KNOWN AS A SOFT DRINK. THE BEE BEE CONFECTION COMPANY, Dayton, Ohio.
Filed August 25, 1916. Serial No. 97,615. PUBLISHED DECEMBER 21, 1920.

141,319. SOAPS. ADRIAN BELL, Baltimore, Md.
Filed February 3, 1920. Serial No. 127,886. PUBLISHED APRIL 20, 1920.

141,320. SAFETY-RAZORS. BESTYET RAZOR CO. INC., Tampa, Fla.
Filed September 7, 1920. Serial No. 136,870. PUBLISHED DECEMBER 21, 1920.

141,321. EYEGLASSES AND SPECTACLES AND PARTS THEREOF — NAMELY, TEMPLES, BRIDGES, AND END PIECES. THE BISHOP COMPANY, North Attleboro, Mass.
Filed June 17, 1920. Serial No. 133,817. PUBLISHED DECEMBER 21, 1920.

141,322. LINIMENT USED EXTERNALLY FOR THE RELIEF OF PAIN. TALBERT W. BLAKESLEE, Erie, Pa.
Filed March 29, 1920. Serial No. 130,341. PUBLISHED DECEMBER 21, 1920.

141,323. CERTAIN COOKING AND DOMESTIC UTENSILS OF ALUMINUM. SOPHIA BLICKMAN, New York, N. Y.
Filed June 21, 1920. Serial No. 133,951. PUBLISHED DECEMBER 21, 1920.

141,324. ENAMEL FOR COATING WOOD OR METAL. BOSTON VARNISH COMPANY, Everett, Mass.
Filed August 28, 1920. Serial No. 136,581. PUBLISHED DECEMBER 14, 1920.

141,325. HONEY. R. A. BRAY, Bigtimber, Mont.
Filed June 17, 1920. Serial No. 133,821. PUBLISHED DECEMBER 7, 1920.

141,326. GENERAL TONIC. THE BRIACEA DRUG Co., Kansas City, Mo.
Filed June 18, 1920. Serial No. 133,867. PUBLISHED DECEMBER 21, 1920.

141,327. BICYCLES, TRICYCLES, VELOCIPEDES, MOTORCYCLES, AND PARTS THEREOF, NOT INCLUDING TIRES. BROADWAY CYCLE Co., INC., Philadelphia, Pa.
Filed July 1, 1920. Serial No. 134,452. PUBLISHED DECEMBER 7, 1920.

141,328. BLOUSES AND OVERALLS. BROWN DURRELL Co., Boston, Mass.
Filed September 4, 1920. Serial No. 136,828. PUBLISHED DECEMBER 21, 1920.

141,329. BEDTICKING. BLUE BUCKLE COTTON MILLS, INC., Rock Hill, S. C.
Filed August 2, 1920. Serial No. 135,693. PUBLISHED DECEMBER 14, 1920.

141,330. NIGHTGOWNS, ENVELOP-CHEMISE, PETTICOATS, BLOOMERS, PAJAMAS, AND CAMISOLES. BURTEX COMPANY, INC., New York, N. Y.
Filed September 3, 1920. Serial No. 136,780. PUBLISHED DECEMBER 21, 1920.

141,331. STEAM-PUMPS. A. S. CAMERON STEAM PUMP WORKS, Jersey City, N. J., and New York, N. Y.
Filed September 4, 1920. Serial No. 136,832. PUBLISHED DECEMBER 21, 1920.

141,332. CERTAIN NAMED AUTOMOBILE TOOLS AND ACCESSORIES. CANTRELL-MILLER MANUFACTURING COMPANY INCORPORATED, San Francisco, Calif.
Filed July 24, 1920. Serial No. 135,358. PUBLISHED DECEMBER 21, 1920.

141,333. SOAP. WILLIAM J. CAREY, Pendleton, Oreg.
Filed August 26, 1920. Serial No. 136,507. PUBLISHED DECEMBER 21, 1920.

141,334. CASEIN GLUE. THE CASEIN MANUFACTURING CO., New York, N. Y.
Filed May 28, 1920. Serial No. 133,047. PUBLISHED DECEMBER 21, 1920.

141,335. MEDICINE FOR THE TREATMENT OF HEADACHE. JAMES MOSELEY CHESNUTT, Clinton, N. C.
Filed June 8, 1920. Serial No. 133,401. PUBLISHED DECEMBER 21, 1920.

141,336. BABY-CARRIAGES AND SIMILAR VEHICLES COVERED WITH WOVEN FIBER FABRIC. CHILDREN'S VEHICLE CORPORATION, East Templeton, Mass.
Filed June 28, 1920. Serial No. 134,305. PUBLISHED DECEMBER 7, 1920.

141,337. MOLDED FIBER IN SHEET FORM. CLARK FIBER PRODUCTS CORPORATION, Hartsdale, N. Y.
Filed September 4, 1920. Serial No. 136,834. PUBLISHED DECEMBER 14, 1920.

141,338. WAISTS AND DRESSES. EMMANUEL MANNING COHAN, New York, N. Y.
Filed August 10, 1920. Serial No. 135,967. PUBLISHED DECEMBER 21, 1920.

141,339. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed June 16, 1920. Serial No. 133,767. PUBLISHED DECEMBER 21, 1920.

141,340. CANNED FRUITS AND CANNED TOMATOES. THE COLORADO PACKING CORPORATION, Canon City, Colo.
Filed July 3, 1919. Serial No. 120,238. PUBLISHED DECEMBER 2, 1919.

141,341. MEASURING CALIPERS AND DIVIDERS, TAPES, COMBINATION-SQUARES, AND RULES. CONSOLIDATED TOOL WORKS, INC., New York, N. Y.
Filed July 21, 1920. Serial No. 135,234. PUBLISHED DECEMBER 21, 1920.

141,342. GLASS. CORNING GLASS WORKS, Corning, N. Y.
Filed June 28, 1920. Serial No. 134,301. PUBLISHED DECEMBER 7, 1920.

141,343. LADIES', MISSES', AND CHILDREN'S MIDDIES, DRESSES, AND SUITS AND GIRLS' AND BOYS' OUTER-WEAR GARMENTS. CARAFIOL-SILVERMAN GARMENT CO., St. Louis, Mo.
Filed July 30, 1920. Serial No. 135,592. PUBLISHED DECEMBER 14, 1920.

141,344. COSMETIC CREAM. THE CRÈME COCO COMPANY, Brooklyn, N. Y.
Filed June 10, 1920. Serial No. 133,547. PUBLISHED DECEMBER 21, 1920.

141,345. CEREAL BEVERAGES MADE FROM MALT. CONSUMERS BREWING COMPANY, Philadelphia, Pa.
Filed June 1, 1920. Serial No. 133,129. PUBLISHED DECEMBER 7, 1920.

141,346. LAXATIVE TONIC AND NERVINE. WILLIAM J. DAVIES, Los Angeles, Calif.
Filed May 17, 1920. Serial No. 132,513. PUBLISHED DECEMBER 21, 1920.

141,347. CHEWING-GUM. DON M. DICKINSON, Jr., Detroit, Mich.
Filed July 10, 1920. Serial No. 134,775. PUBLISHED DECEMBER 7, 1920.

141,348. PEROXID OF HYDROGEN. THE DREVET MFG. CO., New York, N. Y.
Filed June 9, 1920. Serial No. 133,459. PUBLISHED DECEMBER 7, 1920.

141,349. DRIVES OR TRANSMISSION MECHANISM FOR STARTERS FOR INTERNAL-COMBUSTION ENGINES. ECLIPSE MACHINE COMPANY, Elmira Heights, N. Y.
Filed July 21, 1920. Serial No. 135,237. PUBLISHED DECEMBER 21, 1920.

141,350. BAKED BEANS. EDWARDS FOOD PRODUCTS COMPANY, Chicago, Ill.
Filed August 9, 1920. Serial No. 135,920. PUBLISHED JANUARY 11, 1921.

141,351. WAISTS AND DRESSES. EMMANUEL MANNING COHAN, New York, N. Y.
Filed August 10, 1920. Serial No. 135,968. PUBLISHED DECEMBER 21, 1920.

141,352. WHITE-SHOE AND STRAW-HAT CLEANER. BENJAMIN ETTENSON, Leavenworth, Kans.
Filed August 26, 1920. Serial No. 136,516. PUBLISHED DECEMBER 21, 1920.

141,353. VETERINARY MEDICINES, PARTICULARLY ANTICOLIC COMPOUND. FARMERS VETERINARY MEDICAL COMPANY, Warren, Pa.
Filed July 6, 1920. Serial No. 134,561. PUBLISHED DECEMBER 14, 1920.

141,354. INFANTS' BATH-ROBES. FEDERAL UNDERWEAR CO., New York, N. Y.
Filed August 28, 1920. Serial No. 136,587. PUBLISHED DECEMBER 14, 1920.

141,355. PLIERS. FORGED STEEL PRODUCTS CO. OF N. J., Newark, N. J.
Filed June 8, 1920. Serial No. 133,412. PUBLISHED DECEMBER 21, 1920.

141,356. PLIERS. FORGED STEEL PRODUCTS CO. OF N. J., Newark, N. J.
Filed June 8, 1920. Serial No. 133,413. PUBLISHED DECEMBER 21, 1920.

141,357. SOLE-LEATHER. B. FRANK & SONS, New York, N. Y.
Filed August 12, 1920. Serial No. 136,027. PUBLISHED DECEMBER 21, 1920.

141,358. SOLE-LEATHER. B. FRANK & SONS, New York, N. Y.
Filed September 17, 1920. Serial No. 137,284. PUBLISHED DECEMBER 14, 1920.

141,359. CHILD'S GARMENT—NAMELY, ROMPERS MADE AFTER THE GENERAL STYLE OF OVERALLS. LOTTIE E. FREEMAN, Boston, Mass.
Filed June 30, 1920. Serial No. 134,415. PUBLISHED DECEMBER 7, 1920.

141,360. CONCRETE-HARDENER AND CEMENT-HARDENER. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed June 30, 1920. Serial No. 134,417. PUBLISHED DECEMBER 7, 1920.

141,361. WHEAT-FLOUR. GORDONVILLE MILLING COMPANY, Gordonville, Mo.
Filed October 8, 1920. Serial No. 138,089. PUBLISHED DECEMBER 14, 1920.

141,362. HATS AND CAPS FOR MEN, WOMEN, AND CHILDREN. GOSWADO MANUFACTURING COMPANY, Alameda, Calif.
Filed August 26, 1920. Serial No. 136,520. PUBLISHED DECEMBER 21, 1920.

141,363. SHOES MADE WHOLLY OR IN PART OF LEATHER. GRAHAM-BUMGARNER COMPANY, Parkersburg, W. Va.
Filed September 7, 1920. Serial No. 136,884. PUBLISHED DECEMBER 21, 1920.

141,364. SHOES MADE WHOLLY OR IN PART OF LEATHER. GRAHAM-BUMGARNER COMPANY, Parkersburg, W. Va.
Filed September 7, 1920. Serial No. 136,885. PUBLISHED DECEMBER 21, 1920.

141,365. SHOE-POLISHES. LEONARD GRAZIADEI, Toronto, Ontario, Canada.
Filed June 18, 1920. Serial No. 133,876. PUBLISHED DECEMBER 21, 1920.

141,366. SOAP DYES. EDWARD GREEN, Brooklyn, N. Y.
Filed May 1, 1920. Serial No. 131,902. PUBLISHED JANUARY 25, 1921.

141,367. CANNED VEGETABLES AND CANNED FRUITS. GREEN MOUNTAIN PACKING COMPANY, Portland, Me.
Filed December 23, 1919. Serial No. 126,364. PUBLISHED JUNE 8, 1920.

141,368. ELECTRICAL LIGHTS FOR AUTOMOBILES. ANGUS R. GROSS, Baltimore, Md.
Filed September 14, 1920. Serial No. 137,171. PUBLISHED DECEMBER 14, 1920.

141,369. OIL PREPARATION FOR TREATING LEATHER. GUTMANN & COMPANY, Chicago, Ill.
Filed June 14, 1920. Serial No. 133,661. PUBLISHED DECEMBER 21, 1920.

141,370. SHELLED AND UNSHELLED NUTS IN THEIR NATURAL STATE AND DRIED FRUITS. HABICHT AND COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,932. PUBLISHED MARCH 30, 1920.

141,371. DRESS, NEGLIGÉE, AND WORK SHIRTS AND COLLARS. HALL, HARTWELL & CO., Troy, N. Y.
Filed September 1, 1920. Serial No. 136,708. PUBLISHED DECEMBER 21, 1920.

141,372. DRESS, NEGLIGÉE, AND WORK SHIRTS AND COLLARS. HALL, HARTWELL & CO., Troy, N. Y.
Filed September 1, 1920. Serial No. 136,710. PUBLISHED DECEMBER 21, 1920.

141,373. INTERNAL-COMBUSTION ENGINES FOR USE IN PROPELLING MOTOR-CARS, MOTOR-CYCLES, AND THE LIKE. A. HARPER SON & BEAN LIMITED, Dudley, England.
Filed June 1, 1920. Serial No. 133,146. PUBLISHED DECEMBER 21, 1920.

141,374. OPHTHALMIC LENSES AND THE BLANKS FROM WHICH THE SAME ARE CUT. MOSES HIRAM HARRIS, New York, N. Y.
Filed September 9, 1920. Serial No. 136,980. PUBLISHED DECEMBER 14, 1920.

141,375. HAIR-TONIC, DANDRUFF-REMOVER, AND TOILET WATER. S. G. HAYS, Tulsa, Okla.
Filed April 8, 1920. Serial No. 130,831. PUBLISHED DECEMBER 21, 1920.

141,376. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. HESSIG-ELLIS DRUG CO., Memphis, Tenn.
Filed June 9, 1920. Serial No. 133,469. PUBLISHED DECEMBER 21, 1920.

141,377. BINDERS' PAPER AND BINDERS' BOARD. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed August 2, 1920. Serial No. 135,710. PUBLISHED DECEMBER 14, 1920.

141,378. CERTAIN NAMED PAPERS. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed August 2, 1920. Serial No. 135,712. PUBLISHED DECEMBER 14, 1920.

141,379. WRAPPING-PAPER, BINDERS' PAPER, AND BINDERS' BOARD. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed August 2, 1920. Serial No. 135,713. PUBLISHED DECEMBER 14, 1920.

141,380. BINDERS' BOARD AND BINDERS' PAPER. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed August 2, 1920. Serial No. 135,714. PUBLISHED DECEMBER 14, 1920.

141,381. BINDERS' BOARD. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed August 2, 1920. Serial No. 135,715. PUBLISHED DECEMBER 14, 1920.

141,382. COTTON PIECE GOODS. HINCK & MULLER, New York, N. Y.
Filed May 25, 1920. Serial No. 132,923. PUBLISHED DECEMBER 14, 1920.

141,383. FLASHLIGHTS AND DRY BATTERIES. HIPWELL MANUFACTURING CO., Pittsburgh, Pa.
Filed June 11, 1920. Serial No. 133,579. PUBLISHED DECEMBER 7, 1920.

141,384. PEANUT-BUTTER, SALTED PEANUTS. WALTER J. HIRSCH COMPANY, Chicago, Ill.
Filed August 31, 1920. Serial No. 136,682. PUBLISHED DECEMBER 14, 1920.

141,385. WOODEN SIGNS USED AS ROAD-MARKERS. FRANK W. HOCKADAY, Wichita, Kans.
Filed June 29, 1920. Serial No. 134,366. PUBLISHED DECEMBER 7, 1920.

141,386. TURBINE WATER-WHEELS. HOLYOKE MACHINE CO., Holyoke, Mass.
Filed August 26, 1920. Serial No. 136,521. PUBLISHED DECEMBER 21, 1920.

141,387. CANNED FRUITS. HOOD RIVER CANNING COMPANY, Hood River, Oreg.
Filed July 7, 1920. Serial No. 134,643. PUBLISHED DECEMBER 14, 1920.

141,388. PERFUMES, TOILET WATERS, FACE POWDERS, FACE-LOTIONS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France.
Filed June 18, 1920. Serial No. 133,888. PUBLISHED DECEMBER 21, 1920.

141,389. PERFUMES, TOILET WATERS, FACE-POWDERS, FACE-LOTIONS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France.
Filed June 18, 1920. Serial No. 133,889. PUBLISHED DECEMBER 21, 1920.

141,390. PERFUMES, TOILET WATERS, FACE-POWDERS, FACE-LOTIONS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France.
Filed June 18, 1920. Serial No. 133,890. PUBLISHED DECEMBER 21, 1920.

141,391. PERFUMES, TOILET WATERS, FACE-LOTIONS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France.
Filed June 18, 1920. Serial No. 133,892. PUBLISHED DECEMBER 21, 1920.

141,392. PERFUMES, TOILET WATERS, FACE-POWDERS, FACE-LOTIONS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France.
Filed June 18, 1920. Serial No. 133,893. PUBLISHED DECEMBER 21, 1920.

141,393. PERFUMES, TOILET WATERS, FACE-POWDERS, FACE-LOTIONS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France.
Filed June 18, 1920. Serial No. 133,894. PUBLISHED DECEMBER 21, 1920.

141,394. BREAKFAST FOOD CONSISTING OF A WHEAT DERIVATIVE. JOY FOOD PRODUCTS CO., Kansas City, Mo.
Filed December 6, 1919. Serial No. 125,659. PUBLISHED APRIL 27, 1920.

141,395. HATS FOR MEN'S, WOMEN'S, AND CHILDREN'S WEAR. CHARLES S. KATZ, St. Louis, Mo.
Filed June 5, 1920. Serial No. 133,316. PUBLISHED DECEMBER 21, 1920.

141,396. LEATHER SHOES AND BOOTS. F. P. KIRKENDALL & CO., Omaha, Nebr.
Filed August 4, 1920. Serial No. 135,786. PUBLISHED DECEMBER 21, 1920.

141,397. YOUTHS' SHIRTS AND BOYS' BLOUSES. LOUIS S. KIRSHENBAUM, New York, N. Y.
Filed August 25, 1920. Serial No. 136,474. PUBLISHED DECEMBER 21, 1920.

141,398. BOTTLE-WIRE. KLATSCHER & LORENZ, INC., New York, N. Y.
Filed July 14, 1920. Serial No. 134,962. PUBLISHED DECEMBER 21, 1920.

141,399. MEDICINAL PREPARATION—NAMELY, A BLOOD AND NERVE TONIC. KOVIS COMPANY, Springfield, Mass.
Filed April 7, 1920. Serial No. 130,764. PUBLISHED DECEMBER 21, 1920.

141,400. CERTAIN ARTICLES OF CLOTHING. A. KROLIK & COMPANY, Detroit, Mich., and New York, N. Y.
Filed August 26, 1920. Serial No. 136,524. PUBLISHED DECEMBER 21, 1920.

141,401. MALTLESS BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL. LASH'S PRODUCTS CO., Chicago, Ill.
Filed June 24, 1920. Serial No. 134,129. PUBLISHED DECEMBER 21, 1920.

141,402. POULTRY AND STOCK FEEDS AND FISH-MEAL. LAWRENCE CANNING CO., Rockland, Me.
Filed November 6, 1919. Serial No. 124,613. PUBLISHED JANUARY 13, 1920.

141,403. INFANTS' AND CHILDREN'S WHITE AND COLORED COATS. THE LE ROSE CO., New York, N. Y.
Filed May 14, 1920. Serial No. 132,439. PUBLISHED DECEMBER 7, 1920.

141,404. BREAD. LIBERTY BAKING COMPANY, Pittsburgh, Pa.
Filed December 31, 1917. Serial No. 108,231. PUBLISHED MARCH 30, 1920.

141,405. MEN'S OUTER SUITS AND OVERCOATS. SIMON D. LEVY, New York, N. Y.
Filed April 20, 1920. Serial No. 131,396. PUBLISHED DECEMBER 21, 1920.

141,406. WOMEN'S AND MISSES' BOOTS, SHOES, SLIPPERS, PUMPS, AND OXFORDS OF VARIOUS MATERIALS, EXCLUSIVE OF RUBBER. JNO. LINDNER, Carlisle, Pa.
Filed August 26, 1920. Serial No. 136,526. PUBLISHED DECEMBER 14, 1920.

141,407. GAS OR VAPOR HEATERS. LEON P. LOWE, San Francisco, Calif.
Filed August 20, 1920. Serial No. 136,303. PUBLISHED DECEMBER 14, 1920.

141,408. CERTAIN NAMED BLANK FORMS, BLANK BOOKS, AND FILING APPLIANCES. DWIGHT G. MCCARTY, Emmetsburg, Iowa.
Filed June 10, 1920. Serial No. 133,546. PUBLISHED DECEMBER 14, 1920.

141,409. LAXATIVE COLD-TABLETS. W. F. MCKNIGHT, Healdton, Okla.
Filed June 14, 1920. Serial No. 133,669. PUBLISHED DECEMBER 21, 1920.

141,410. STOCK FEED. MACX FEED MILLING CO., Clinton, Iowa.
Filed September 27, 1920. Serial No. 137,672. PUBLISHED DECEMBER 14, 1920.

141,411. DEVICES FOR DISCHARGING THE CONTENTS OF COLLAPSIBLE TUBES. THOMAS HARRIS MARTIN, Columbus, Ohio.
Filed July 12, 1920. Serial No. 134,835. PUBLISHED DECEMBER 21, 1920.

141,412. ARTICLES OF CLOTHING. MECHANISCHE TRIKOTWEBEREI STUTTGART LUDWIG MAIER & CO., Boblingen, near Stuttgart, Germany.
Filed August 11, 1920. Serial No. 135,996. PUBLISHED DECEMBER 21, 1920.

141,413. COFFEE. MERRYWEATHER COFFEE, TEA & SPICE CO., Cincinnati, Ohio.
Filed June 17, 1920. Serial No. 133,834. PUBLISHED DECEMBER 7, 1920.

141,414. MIXED TEA. MERRYWEATHER COFFEE TEA & SPICE CO., Cincinnati, Ohio.
Filed June 17, 1920. Serial No. 133,835. PUBLISHED DECEMBER 7, 1920.

141,415. CERTAIN NAMED ELECTRICAL APPARATUS. FERNANDO C. MESA, Irvington, N. J.
Filed September 11, 1920. Serial No. 137,087. PUBLISHED DECEMBER 14, 1920.

141,416. LIQUID REMEDY FOR EXTERNAL APPLICATION FOR HAY-FEVER AND THE LIKE. HUBERT S. MORGAN, Boston, Mass.
Filed July 6, 1920. Serial No. 134,593. PUBLISHED DECEMBER 14, 1920.

141,417. NIPPLE-CERATE. NATIONAL PHARMACY CO., Oakland, Calif.
Filed June 15, 1920. Serial No. 133,747. PUBLISHED DECEMBER 21, 1920.

141,418. TWIST-DRILLS. NATIONAL TWIST DRILL & TOOL COMPANY, Detroit, Mich.
Filed September 4, 1920. Serial No. 136,846. PUBLISHED DECEMBER 21, 1920.

141,419. CERTAIN PAINTS AND PAINTERS' MATERIALS. NEW YORK WOOD FINISHERS SUPPLY CO. INC., New York, N. Y.
Filed August 13, 1920. Serial No. 136,087. PUBLISHED DECEMBER 14, 1920.

141,420. CERTAIN NAMED TOILET PREPARATIONS. NORTHAM WARREN CORPORATION, New York, N. Y.
Filed June 4, 1920. Serial No. 133,277. PUBLISHED DECEMBER 21, 1920.

141,421. TOILET CREAM. ADOLPH C. ONNEN, Baltimore, Md.
Filed May 11, 1920. Serial No. 132,315. PUBLISHED DECEMBER 21, 1920.

141,422. TALKING-MACHINES. LEO PALMER, New York, N. Y.
Filed September 13, 1920. Serial No. 137,141. PUBLISHED DECEMBER 14, 1920.

141,423. MECHANICAL RAZOR-STROPS. THE RHODES MANUFACTURING COMPANY, St. Louis, Mo.
Filed August 13, 1920. Serial No. 136,091. PUBLISHED DECEMBER 21, 1920.

141,424. BLEACHED AND UNBLEACHED SULFITE PULP. THE RIORDON PULP & PAPER COMPANY, LIMITED, Montreal, Quebec, Canada.
Filed May 13, 1920. Serial No. 132,406. PUBLISHED DECEMBER 21, 1920.

141,425. LEATHER. THE ROBSON LEATHER COMPANY, LIMITED, Oshawa, Canada.
Filed September 7, 1920. Serial No. 136,915. PUBLISHED DECEMBER 14, 1920.

141,426. CERTAIN NAMED MOTOR-CARS, PARTS AND ACCESSORIES. A. V. ROE & CO. LIMITED, London, England.
Filed June 28, 1920. Serial No. 134,329. PUBLISHED DECEMBER 21, 1920.

141,427. MUSIC-ROLLS FOR PLAYER-PIANOS. THE ROSE VALLEY COMPANY, Philadelphia, Pa.
Filed July 3, 1920. Serial No. 134,549. PUBLISHED DECEMBER 21, 1920.

141,428. COAL AND WOOD STOVES AND FURNACES. THE RUDY FURNACE CO., Dowagiac, Mich.
Filed August 28, 1920. Serial No. 136,602. PUBLISHED DECEMBER 14, 1920.

141,429. WHITTLING KITS CONSISTING OF BOXES CONTAINING TOOLS AND SUPPLIES FOR WHITTLING-WORK. JOHN RUSSELL CUTLERY CO., Turners Falls, Mass.
Filed August 20, 1920. Serial No. 136,311. PUBLISHED DECEMBER 21, 1920.

141,430. PETTICOATS AND LADIES' BLOOMERS AND KNICKERBOCKERS. DAVID L. ROSENBERG, Boston, Mass.
Filed August 28, 1920. Serial No. 136,608. PUBLISHED DECEMBER 21, 1920.

141,431. WOMEN'S OUTER DRESSES. SYLVIA SNIBLEY ROBERTSON, Clear Lake, Iowa.
Filed August 27, 1920. Serial No. 136,568. PUBLISHED DECEMBER 14, 1920.

141,432. CERTAIN WOOL AND YARN TREATING MACHINERY. C. G. SARGENT'S SONS CORPORATION, Graniteville, Mass.
Filed July 23, 1920. Serial No. 135,350. PUBLISHED DECEMBER 21, 1920.

141,433. NON-ALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. LOUIS SCHILLER, San Francisco, Calif.
Filed July 27, 1920. Serial No. 135,459. PUBLISHED DECEMBER 21, 1920.

141,434. CHOCOLATE DESSERT-PUDDING. ARTHUR E. SCHLICHTING, Sheboygan Falls, Wis.
Filed June 28, 1920. Serial No. 134,333. PUBLISHED DECEMBER 7, 1920.

141,435. WALKING-PLOWS, SULKY-PLOWS, MIDDLE-BUSTERS, PLOW-STOCKS, STALK-CUTTERS, CULTIVATORS, AND FERTILIZER-DISTRIBUTERS. S. C. AGRICULTURAL DISTRIBUTING CO., Lake City, S. C.
Filed May 27, 1920. Serial No. 133,004. PUBLISHED DECEMBER 21, 1920.

141,436. ANIMAL-FEED PRODUCTS. B. L. SESSUM, Memphis, Tenn.
Filed October 12, 1920. Serial No. 138,242. PUBLISHED DECEMBER 14, 1920.

141,437. SCALP-TONICS. SICKELS & ROUSH, Columbus, Ohio.
Filed April 28, 1920. Serial No. 131,752. PUBLISHED DECEMBER 21, 1920.

141,438. LADIES' HATS. KATHRYN GILMAN SIEGELSTEIN, New York, N. Y.
Filed August 9, 1920. Serial No. 135,932. PUBLISHED DECEMBER 21, 1920.

141,439. SHAVING-CREAM AND SHAVING-SOAP. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed March 15, 1919. Serial No. 116,627. PUBLISHED OCTOBER 28, 1919.

141,440. ELECTRIC SWITCHES, MAGNETO AND DYNAMO ELECTRIC MACHINES. SPLITDORF ELECTRIC COMPANY, Newark, N. J.
Filed October 22, 1920. Serial No. 138,696. PUBLISHED DECEMBER 14, 1920.

141,441. PREPARATION FOR THE TREATMENT OF RHEUMATISM. JACKSON & STAMPER, Middletown, Ohio.
Filed June 28, 1920. Serial No. 134,317. PUBLISHED DECEMBER 14, 1920.

141,442. PUDDINGS AND DESSERTS IN PREPARED FORM. STERLING PURE FOOD CO. INC., Brooklyn, N. Y.
Filed May 13, 1920. Serial No. 132,410. PUBLISHED DECEMBER 7, 1920.

141,443. WASHING COMPOUNDS. THE STOUT CRATE CO., Chicago, Ill.
Filed June 3, 1920. Serial No. 133,231. PUBLISHED DECEMBER 21, 1920.

141,444. LEATHER SHOES. JOS. STRASBURGER CO., Washington, D. C.
Filed June 10, 1920. Serial No. 133,557. PUBLISHED DECEMBER 21, 1920.

141,445. RUBBER HEELS AND RUBBER LIFTS. TEE PEE RUBBER COMPANY, New York, N. Y.
Filed July 13, 1920. Serial No. 134,924. PUBLISHED DECEMBER 21, 1920.

141,446. POWDER FOR CLEANSING, SCOURING, AND POLISHING METAL, GLASS, WOODWORK, MACHINERY, &C. TEXAS OIL, GAS & MINERAL PRODUCTS COMPANY, Houston, Tex.
Filed July 23, 1919. Serial No. 120,854. PUBLISHED MAY 4, 1920.

141,447. REMEDIAL, TOILET, AND SHAVING SOAPS AND SHAVING-CREAM IN THE FORM OF SOAP PASTE. HENRY THAYER & CO., INC., Cambridge, Mass.
Filed March 31, 1920. Serial No. 130,451. PUBLISHED DECEMBER 21, 1920.

141,448. PREPARATION FOR THE DESTRUCTION OF ANTS, ROACHES, FLIES, AND INSECTS. THE O. & W. THUM COMPANY, Grand Rapids, Mich.
Filed June 16, 1920. Serial No. 133,805. PUBLISHED DECEMBER 21, 1920.

141,449. LINIMENT FOR RHEUMATISM AND CATARRH. JAMES HARVEY TILSON, Baxter Springs, Kans.
Filed May 24, 1920. Serial No. 132,896. PUBLISHED DECEMBER 21, 1920.

141,450. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. TYSON & CO., Paris, Tenn.
Filed May 19, 1920. Serial No. 132,670. PUBLISHED DECEMBER 21, 1920.

141,451. MEN'S NEGLIGÉE SHIRTS. TUTELMAN BROTHERS, Philadelphia, Pa.
Filed August 18, 1920. Serial No. 136,243. PUBLISHED DECEMBER 14, 1920.

141,452. BELTS FORMED OF RUBBER AND FABRIC, VULCANIZED. UNITED & GLOBE RUBBER COMPANY, Trenton, N. J.
Filed September 24, 1920. Serial No. 137,596. PUBLISHED DECEMBER 14, 1920.

141,453. ABRASIVE PAPERS AND CLOTHS. UNITED STATES SAND PAPER CO., Williamsport, Pa.
Filed August 10, 1920. Serial No. 135,980. PUBLISHED DECEMBER 21, 1920.

141,454. MEN'S UNDERWEAR OF TEXTILE-FABRIC ONE-PIECE GARMENTS. UNIVERSAL GARMENT COMPANY, INC., Philadelphia, Pa.
Filed May 24, 1920. Serial No. 132,900. PUBLISHED DECEMBER 7, 1920.

141,455. ELECTRIC HEATERS FOR AIR. UNIVERSAL INTERESTS, INC., New York, N. Y.
Filed October 2, 1920. Serial No. 137,866. PUBLISHED DECEMBER 14, 1920.

141,456. CERTAIN ARTICLES OF CLOTHING. VANITY FAIR SILK MILLS, Reading, Pa.
Filed August 17, 1920. Serial No. 136,215. PUBLISHED DECEMBER 21, 1920.

141,457. CANDY. CORD VIEBROCK, Brooklyn, N. Y.
Filed September 11, 1920. Serial No. 137,097. PUBLISHED DECEMBER 14, 1920.

141,458. HARD-CANDY MIXTURE. WILBUR GLENN VOLIVA, Zion, Ill.
Filed June 29, 1920. Serial No. 134,395. PUBLISHED DECEMBER 7, 1920.

141,459. SALVE AND OINTMENTS FOR USE IN TREATMENT OF RECTAL DISEASES. ORLANDO R. VON BONNEWITZ, New York, N. Y.
Filed November 6, 1919. Serial No. 124,633. PUBLISHED MARCH 30, 1920.

141,460. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed October 11, 1920. Serial No. 138,198. PUBLISHED DECEMBER 14, 1920.

141,461. COTTON PIECE GOODS. WARNER-GODFREY CO., New York, N. Y.
Filed July 1, 1920. Serial No. 134,497. PUBLISHED DECEMBER 14, 1920.

141,462. INSECTICIDES. THE G. B. WILLIAMS CO., Quitman, Ga.
Filed June 16, 1920. Serial No. 133,812. PUBLISHED DECEMBER 21, 1920.

141,463. FANS AND EXHAUSTERS. L. J. WING MFG. CO., New York, N. Y.
Filed August 20, 1920. Serial No. 136,321. PUBLISHED DECEMBER 21, 1920.

141,464. HOSIERY FOR MEN, WOMEN, AND CHILDREN. WOLFINGER KNITTING MILLS, Reading, Pa.
Filed August 16, 1920. Serial No. 136,174. PUBLISHED DECEMBER 21, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

APRIL 19, 1921.

141,465. (CLASS 15. OILS AND GREASES.) HARLEY-DAVIDSON MOTOR CO., Milwaukee, Wis. Filed July 24, 1920. Serial No. 135,367.

HARLEY-DAVIDSON

The trade-mark consists of the words "Harley-Davidson."

Particular description of goods.—Lubricating-Oil, Chain-Lubricant, and Non-Fluid Lubricant.

Claims use since Dec. 1, 1911.

LABELS

REGISTERED APRIL 19, 1921.

22,856.—*Title:* "SHUTTERS FUDGE." (For Candy.) SHUTTER-JOHNSON CANDY COMPANY, Chicago, Ill. Filed November 18, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE GILLER.

Decided April 16, 1921.

PATENTS—REVIVAL OF ABANDONED APPLICATION—APPLICATION ABANDONED WHILE APPLICANT WAS SERVING WITH THE FORCES OF THE UNITED STATES.

Under section 6 of the act of March 3, 1921, a citizen of the United States whose application became abandoned while he was serving with the forces of the United States during the war upon filing a responsive amendment is entitled to proceed with the prosecution of his case, irrespective of whether he was serving abroad or in this country.

ON PETITION.

Messrs. Fisher, Towle, Clapp & Soans for applicant.

ROBERTSON, *Commissioner:*

This case is before me on a petition to revive the application in view of the provisions of section 6 of the act of March 3, 1921.

The application became abandoned on August 18, 1918. A petition to revive the same was filed on July 10, 1920, accompanied by an amendment, which the Examiner stated was responsive to the last Office action. This petition was denied on July 22, 1920, on the ground that the showing was insufficient to establish unavoidable delay. Applicant now asks that the application be revived under the Nolan Act.

Section 6 of the act provides that—

> where an application became abandoned or forfeited, during the time the applicant was serving with the forces of the United States, by reason of his failure to take action or pay a fee within the time now required by law, such action may be taken, or the fee paid, within six months from the passage of this act.

From affidavits filed with the former petition it appears that applicant was in the military service from April 3, 1918, until March 10, 1919. The affidavit does not state whether or not applicant was serving abroad. The statute as quoted above, however, does not in terms limit relief to cases where the applicant was serving overseas and it is thought that it should not be restricted by construction beyond its terms. Therefore the averment that he was in the service at the time of the abandonment is sufficient, it being immaterial whether he was with the forces abroad or with the forces in this country.

The petition is granted.

EX PARTE KARNET.

Decided April 16, 1921.

PATENTS—STATUTES—NOLAN ACT—FOREIGN APPLICATION FORFEITED AND ABANDONED—RIGHT TO PAY FINAL FEE OR RENEW.

A foreign applicant whose application became forfeited on September 7, 1919, and abandoned on March 7, 1921, may now, under section 2 of the act of March 3, 1921, either pay the final fee or renew the application, provided the laws of the country of which he is a citizen or subject grant substantially reciprocal privileges to citizens of the United States, and where a renewal fee was paid it may be applied as a part of the final fee should applicant so elect.

ON PETITION.

Mr. Glen S. Noble for applicant.

ROBERTSON, *Commissioner:*

This case is before me on a petition to revive the application, forfeited for non-payment of the final fee.

When the application was filed on October 28, 1914, applicant was a subject of the Emperor of Austria. He is now a subject of the King of Roumania. The application was allowed March 6, 1919, and this petition for renewal, accompanied by a renewal fee of $15, was filed on April 2, 1921.

Under the circumstances the case must be brought within section 2 of the Nolan Act of March 3, 1921, to entitle applicant to relief.

Since the final fee was due on or before September 6, 1919, the application might have been renewed at any time after forfeiture prior to March 7, 1921. In view of the provisions of section 2 of the Nolan Act applicant may now either pay the final fee or renew the application, provided it is shown that substantially reciprocal privileges are accorded by Roumania to citizens of the United States, as pointed out in *ex parte* Rechnitzner, (285 O. G., 572.)

If applicant elects to pay the final fee instead of renewing the application, the renewal fee paid may be applied as a part of the final fee.

On the facts presented the petition is denied.

EX PARTE MOSBACHER.

Decided April 16, 1921.

PATENTS—STATUTES—NOLAN ACT—FOREIGN APPLICATION TWICE FORFEITED AND ABANDONED—RIGHT TO PAY FINAL FEE OR RENEW.

A foreign applicant whose application became forfeited on December 5, 1914, was renewed and again for-

feited within two years from the original notice of allowance, may now, under section 2 of the act of March 3, 1921, either pay the final fee or file a second renewal, provided the laws of the country of which he is a citizen or subject grant substantially reciprocal privileges to citizens of the United States.

ON PETITION.

TRUSS-CUSHION FOR HYGIENICAL PURPOSES.

Mr. Carl Teves for the applicant.

ROBERTSON, *Commissioner:*

This case is taken up in view of letter filed by applicant, which is treated as a petition.

Applicant is a citizen of Germany. The application was filed September 3, 1912, was allowed May 24, 1913, renewed May 21, 1914, and again allowed June 4, 1914.

Applicant is in default as to the payment of the final fee, which was due on or before December 4, 1914. After that date it was open to applicant to file a second renewal, which could have been done at any time prior to May 25, 1915.

Relief from these defaults may be claimed only under the provisions of section 2 of the act of March 3, 1921, known as the Nolan Act. This section provides—

that the time now fixed by law for the payment of any fee or for the taking of any action with respect to an application for patent, which time had not expired on August 1, 1914, or which commenced after August 1, 1914, is hereby extended until the expiration of one year from the passage of this act, without the payment of extension fees or other penalty in favor of the citizens or subjects of countries which have extended, now extend, or shall extend during a period of one year from the passage of this act substantially reciprocal privileges to citizens of the United States, provides that no extension herein shall confer such privileges on the citizens or subjects of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States, but nothing in this act shall give any right to reopen interference proceedings where final hearing before the Examiner of Interferences has taken place.

Since the date upon which the final fee could have been paid and the date on which a second renewal could have been filed are each subsequent to August 1, 1914, applicant is now entitled to take either of these actions, provided the final fee is actually paid or the application is renewed within the time prescribed by section 2, and provided, further, that the Office is satisfied that the laws of Germany extend to citizens of the United States privileges substantially reciprocal to the privileges here sought as to character and duration. As pointed out in the case of *ex parte Rechnitzner*, (285 O. G., 572,) the time of taking the required action governs the right to relief, and hence it is important that such action be taken and proof of the reciprocal foreign laws be filed promptly.

No relief can be granted on the present showing.

EX PARTE RECHNITZNER.

Decided April 16, 1921.

1. PATENTS—STATUTES—NOLAN ACT CONSTRUED—REINSTATEMENT OF APPLICATION.

The act of March 3, 1921, does not automatically reinstate an application, nor has the Commissioner any authority to reinstate it upon a mere request of the applicant for reinstatement; but the action which is appropriate to the condition of the case must actually be made in order to change its status. It is the time when applicant makes the necessary action or pays the required fee that determines his rights under the law.

2. SAME—SAME—SAME—RECIPROCAL PRIVILEGES—PROOF OF THE APPLICABLE FOREIGN LAW.

Relief of foreign applicants under section 2 of the act of March 3, 1921, being conditional upon the granting to citizens of the United States by the country of which the foreign applicant is a citizen or subject of substantially reciprocal privileges, it is necessary that applicants seeking benefits under the act shall prove the applicable foreign law in the absence of knowledge by the Office of such law received from other sources.

ON PETITION.

Mr. Alexander Rechnitzner pro se.

ROBERTSON, *Commissioner:*

This case is before me on petition for reinstatement of the application under the provisions of the act of March 3, 1921, known as the Nolan Act.

The application was filed July 26, 1912, by a subject of the Emperor of Austria, residing in Vienna. In an affidavit filed with the petition applicant avers that he is now a citizen of Czechoslovakia.

The application was held abandoned by the Primary Examiner in a letter dated November 24, 1917. In a petition to the Commissioner following this holding it was prayed that applicant be relieved, either by holding that the delay was unavoidable, or by suspending action on the application until a reasonable time after the war in view of the inability of the resident attorney to communicate with the applicant. In deciding the petition the Acting Commissioner held that—

This Office has no authority to extend the time for action on an application. If the attorney is unable to amend the case himself or to communicate with the inventor, an amendment can be filed when proper information is received, which amendment should be accompanied by a showing of the facts relied upon to establish that the delay in prosecution of the case was unavoidable.

Nothing was done thereafter until the present petition was filed.

The petition asks simply that the application be reinstated under the act of March 3, 1921. No amendment was filed with the petition and there is nothing in the case upon which the Office can act aside from the petition to reinstate. Applicant evidently recognizes the necessity of filing an amendment and promises to do so as soon as possible, but he points out that owing to uncertainties as to the construction of the act and as to what privileges his own country may grant, he wishes to save his rights under the law until he can make a properly responsive amendment.

If applicant is entitled to relief it is by reason of the provisions of section 2 of the act, which provides—

that the time now fixed by law for the payment of any fee or for the taking of any action with respect to an application for patent, which time had not expired on August 1, 1914, or which commenced after August 1, 1914, is hereby extended until the expiration of one year from the passage of this act, without the payment of extension fees or other penalty in favor of the citizens or subjects of countries which have extended, now extend, or shall extend during a period of one year from the passage of this act substantially reciprocal privileges to citizens of the United States, provided that no extension herein shall confer such privileges on the citizens or subjects of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States, but nothing in this act shall give any right to reopen interference proceedings where final hearing before the Examiner of Interferences has taken place.

It is to be noted, first, that relief is conditioned upon the granting to citizens of the United States

by the country of which the applicant is a citizen of substantially reciprocal privileges and, second, that no extension may confer such privileges on the citizens of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States. Hence, it is necessary to the granting of relief that this Office have knowledge of the foreign law in order to decide whether it provides the reciprocal privileges called for and the necessary extension of term. Judicial notice is not taken of a foreign law. (16 Cyc., 895.) The Office is now endeavoring to secure the foreign laws which are considered reciprocal to the Nolan Act. Until such efforts are successful it will be necessary that each applicant seeking the benefit of the act shall prove the applicable foreign law. Proof of a foreign law is governed by the laws of evidence, and books on this subject should be consulted as a guide to action in this respect.

That an applicant does not bring himself within the provisions of the act merely by giving notice of an intention to act at some time in the future or by asking a reinstatement of the application seems obvious. The provisions of this section contemplate cases in which a fee or an action was due under the law at some time in the past which applicant failed to meet on time, and it provides that these acts may now be performed. It states the character of the acts—namely, the paying of a fee or taking of any action the time for doing which is fixed by law. In the present case applicant asks only that the case be reinstated for future action. The reinstatement of an application is not an action required to be taken by law, and hence the case stands as if no action whatever had been taken. The law is not automatically operative to reinstate applications, and since the things to be done to make it operative are specified things to be initiated by an applicant or on his behalf the Commissioner has no authority to change the status of the application, and its status is not changed until one of the actions specified is taken by the applicant. A petition to reinstate the application is not one of the specified actions. It follows that until applicant has paid a required fee or taken a required action the status of the application cannot be changed by any other thing the applicant may do or anything the Commissioner might do, and consequently that an applicant's rights under this section are determined only at the time the necessary action is taken. Such action must be taken within the time prescribed in the section under consideration. In the present case the application stands under a holding of abandonment for failure to make proper response, and the required action, therefore, is the filing of a responsive amendment, and until such an amendment is filed the application is not brought within the law. While such action must be taken, in any event, within the time prescribed, proof of the foreign law may be made at a later date, although the time of filing such proof may have a bearing on applicant's diligence in prosecution under section 4894 of the Revised Statutes.

The petition is accordingly denied.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

SHARP *v.* GAMAGE.

Decided February 7, 1921.

PATENTS—INTERFERENCES—RIGHT TO MAKE CLAIM.

An applicant whose application discloses a dust-guard for car-axle boxes consisting of a plate having a lower edge which is square, with the corners cut off in circular form, leaving a flange extending straight across the bottom between the parts where the corners are clipped off, *Held* not entitled to make a claim calling for a plate having a flange extending around a semicircular lower edge.

[Affirmed by the Court of Appeals of the District of Columbia, 285 O. G., 574.]

Mr. J. H. Milans and *Mr. C. T. Milans* for Sharp.

Mr. L. J. Doolittle for Gamage.

VAN ORSDEL, *J.:*

This is an interference proceeding involving an invention relating to dust-guards for car-axle boxes. The application of both parties disclose a resilient sheet-metal plate having its upper edge straight and the lower edge rounded. Sharp also showed a guard having the lower corners clipped instead of rounded. The car-axle extends through an opening in the center of the plate, surrounded by a circumferential flange, with flanges at the upper and lower edges reversely curved.

The issue was originally in eight counts. The Examiner of Interferences awarded priority as to all the counts to Sharp. The Board of Examiners-in-Chief awarded counts 1, 2, 3, and 8 to Sharp, but held that Sharp could not make the remaining counts, which were awarded to Gamage, and Sharp alone appealed. Hence the issue was narrowed to counts 4, 5, 6, and 7. The Commissioner affirmed the Board, awarding priority on these counts to Gamage. From this Sharp appeals.

All the tribunals below found that Sharp, the senior party, was the first to conceive and reduce to practice. With this holding we agree. From a careful study of Sharp's specification and drawings we are also in accord with the Examiners-in-Chief and the Commissioner in holding that Sharp is not entitled to make the present claims. The claims, as set forth in count 4, call for—

a dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle and having integral flanges at its upper and lower edges, the flange at its upper edge being straight and its lower edge being of semi-circular outline and bent away from the body of the plate to constitute a flange extending around said semi-circular lower edge.

Sharp's application drawings fail to disclose a lower flange extending around the semicircular lower edge. It shows the lower edge square, with the corners cut off in circular form, leaving the flange extending straight across the bottom between the points where the corners are clipped off. This disclosure does not meet the issue, since the

evident purpose is to have the dust-guard so shaped that it will fit into and conform to the semicircular bottom of the journal-box.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

The decision of the First Assistant Commissioner reads as follows:

WHITEHEAD, *First Assistant Commissioner:*

This case is before me on appeal by Sharp from the decision of the Examiners-in-Chief in so far as it reversed the decision of the Examiner of Interferences as to counts 4, 5, 6, and 7.

The Examiner of Interferences awarded priority to Sharp as to all the counts. His decision was affirmed by the Examiners-in-Chief as to counts 1, 2, 3, and 8, but reversed as to counts 4, 5, 6, and 7, on the ground that the invention as defined in those counts is not disclosed in Sharp's application.

The invention relates to dust-guards for car-axle boxes, and, as shown in the applications of both parties, this dust-guard comprises a resilient sheet-metal plate having a straight upper edge and a rounded lower edge, Sharp also disclosing a form of the dust-guard in which the lower corners are clipped instead of rounded. The plate is provided with a central opening for the car-axle and a circumferential flange surrounding it and with flanges at its upper and lower ends, which are reversely curved at their edges.

The question of Sharp's right to make the claims turns upon the question whether he shows a flange at the lower end of the metal plate arranged as described in counts 4, 5, 6, and 7. A motion to dissolve was filed by Gamage on the ground that Sharp had no right to make these claims, which was denied by the Law Examiner. The Examiner of Interferences followed this holding, since no further evidence had been presented on that point, and on the question of priority generally he held in favor of Sharp. His decision on the general question of priority was affirmed by the Examiners-in-Chief, who, however, held that the Law Examiner was in error in holding that claims 4, 5, 6, and 7 were broad enough to read on Sharp's disclosure.

The counts in question read as follows:

4. A dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle and having integral flanges at its upper and lower edges, the flange at its upper edge being straight and its lower edge being of semi-circular outline and bent away from the body of the plate to constitute a flange extending around said semi-circular lower edge.

5. A dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle and having integral flanges at its upper and lower edges, the flange at its upper edge being straight and its lower edge being of semi-circular outline and bent away from the body of the plate to constitute a flange extending around said semi-circular lower edge and bending away from the plate in a gradual curve reversing at its extreme edge.

6. A dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle and having an integrally formed straight flange at its upper end and having at its lower end an integrally formed flange of semi-circular outline partially surrounding said opening.

7. A dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle and having at its upper end a lateral flange and its lower edge of semi-circular outline and bent away from the body of the plate to constitute a flange extending around said lower edge, said plate also having integral ribs formed therein and extending upwardly near its sides thereof.

It is to be noted that each of these counts contrasts the flange at the upper edge with the flange at the lower edge, count 4 specifying that the flange at the upper edge is straight, while the flange at the lower end extends "around said semi-circular lower edge," and count 6 specifying that the upper flange is straight, but that the lower flange has a "semi-circular outline partially surrounding said opening."

In the form of the device shown in Figure 2 of Sharp's application the lower edges of the dust-guard are shown as having the corners cut off, it being stated, however, that this lower edge may be rounded, and in Fig. 6 the lower edge is shown as rounded. The purpose of this construction was to enable the dust-guard to fit into the journal-boxes having a rounded instead of a flat bottom. In each of these figures the flange is shown as extending straight across the lower side. In other words, the form shown in Fig. 2 is just what would be obtained if the guard had been formed of rectangular outline exactly alike at the top and bottom and the two lower corners had been cut off. There is no statement in the specification that these flanges were formed any differently or that they were intended to conform in outline to the rounded lower edge of the dust-guard.

In the Gamage application, on the other hand, the lower edge of the dust-guard is shown as rounded, and the flange is similarly shown—that is, as being substantially parallel to the curved lower edge. In his application Gamage specifies a function for this construction—namely, that as the flange extends upwardly on each side of the plate and partially surrounds the opening for the axle it serves to stiffen this portion of the body of the plate and increase the normal resistance to buckling. It is also stated that by virtue of this construction the degree of resiliency of the plate as a whole decreases from the top to the bottom.

The construction placed by the Law Examiner on the claims in question is believed not to be the natural one, since he held that the flange extending across the lower edge of the plate can, since the lower edge of the plate is rounded, be said broadly to extend around the lower edge. Giving these words their normal meaning, they are believed to define a structure such as shown by Gamage and not to include the structure shown by Sharp.

The decision of the Examiners-in-Chief awarding priority to Gamage as to counts 4, 5, 6, and 7 is affirmed.

Patents Nos. 1,375 662 to 1,376,390.

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Issue of April 26, 1921.

Patents	729	No. 1,375,662 to No. 1,376,390,	inclusive.
Designs	197	No. 57,562 to No. 57,758,	inclusive.
Trade-Marks	356	No. 141,466 to No. 141,821,	inclusive.
Reissues	6	No. 15,092 to No. 15,097,	inclusive.
Total	1288		

Disclaimers.

1,260,708.—*Clarence D. Platt*, Bridgeport, Conn. ELECTRIC-SWITCH CONSTRUCTION. Patent dated March 26, 1918. Disclaimer filed April 11, 1921, by the assignee, *The Trumbull Electric Manufacturing Company.*

Enters this disclaimer—

"As to claim 8 of every combination therein set forth, except such a construction in which the means on the cover for throwing the handle to the off position as the cover is opened is separate and distinct from the stop for locking the switch handle in the off position when the cover is open and in which the handle itself as distinguished from the switch proper is directly affected by said stop and said throwing means."

1,353,106.—*Robert McC. Johnstone*, Roselle Park, N. J. WINDING MECHANISM. Patent dated October 5, 1920. Disclaimer filed April 12, 1921, by the assignee, *Cameron Machine Company.*

Enters the following disclaimer:

"In respect to claim 8: by limiting the device having grooves to a device in which the grooves are of such character that hills and valleys that merge into each other, without producing pronounced separating edges, are formed in its surface.

"In respect to claims 9 and 10: by limiting the roller having grooves to a roller in which the grooves are of such character that hills and valleys that merge into each other, without producing pronounced separating edges, are formed in its surface.

"In respect to claim 11: by limiting the surface winding roll having circumferential grooves to a surface winding roll having circumferential grooves of such character that hills and valleys that merge into each other, without producing pronounced separating edges, are formed in its surface."

Adverse Decisions in Interference.

PATENT NO. 1,290,229.

On February 26, 1921, a decision was rendered that John J. Kenney was not the first inventor of the subject-matter covered by claims 7 and 8 of his Patent No. 1,290,229, subject, "Swivel attachment-plug," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,293,033.

On March 15, 1921, a decision was rendered that James Cernohouz was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,293,033, subject, "Photographic-film camera," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,303,617.

On March 21, 1921, a decision was rendered that William W. Tuck was not the first inventor of the subject-matter covered by claims 15, 16, and 17 of his Patent No. 1,303,617, subject, "Vegetable-cutting apparatus," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,330,926.

On March 24, 1921, a decision was rendered that Frank R. Warren was not the first inventor of the subject-matter covered by claims 1, 2, and 4 of his Patent No. 1,330,926, subject, "Locks for motor-vehicles," and no appeal having been taken within the time allowed such decision has become final.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Baker patents, Nos. 1,239,076 and 1,267,353, and Baker design patents, Nos. 50,291 and 51,165, all relating to wall-receptacles in bathrooms for soap and toilet articles, *Held* void for lack of patentable invention. *Baker et al.* v. *Hughes-Evans Co. et al.*, 270 Fed. Rep., 97.

(U. S. C. C. A. Calif.) The Denivelle patent, No. 1,212,331, for process for the manufacture of artificial travertin, *Held* valid and infringed. *Los Angeles Lime Co. et al.* v. *Nye*, 270 Fed. Rep., 155.

(U. S. D. C. N. J.) The Wooster patent, No. 933,011, for a woven cotton belting saturated with a solution of asphaltum, *Held* void for anticipation and lack of invention. *Duryea Mfg. Co.* v. *Agrippa Mfg. Corporation et al.*, 270 Fed. Rep., 224.

(U. S. D. C. Mo.) Claims 1 to 3 of the Girtanner patent, No. 986,455, for a furnace-arch consisting of a pair of I-beams, brackets supported thereby, with flanges on the lower edges, and tiles provided with grooves to receive such flanges, *Held* anticipated; also *Held* infringed, if valid. *Laclede Christy Clay Products Co.* v. *City of St. Louis*, 270 Fed. Rep., 338.

APPLICATIONS UNDER EXAMINATION.

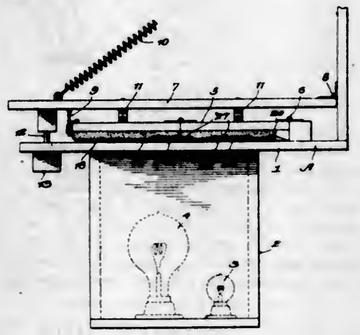
Condition at Close of Business April 16, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders....	Nov. 26	Dec. 13	620
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 14	Oct. 14	1,378
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Aug. 6	683
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	May 27	Jan. 12	1,467
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 13	Sept. 20	616
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Nov. 19	Feb. 2	738
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 4	Dec. 22	1,187
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Jan. 31	Mar. 5	517
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 7	Mar. 5	644
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Oct. 16	Feb. 9	960
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Jan. 18	Jan. 24	435
222	12. Machine Elements	Sept. 7	Jan. 19	956
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 22	Jan. 3	1,456
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	July 21	Feb. 11	786
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 24	Aug. 18	1,535
111	16. Radiant Energy; Telegraphy; Telephony	July 6	Sept. 24	1,393
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Nov. 4	Jan. 10	691
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	July 31	Nov. 4	1,400
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	July 21	Nov. 18	745
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 10	Jan. 4	1,003
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Sept. 9	Feb. 17	500
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Nov. 23	Feb. 4	348
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 23	July 27	802
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 4	Jan. 20	742
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 26	Feb. 21	235
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Sept. 2	Nov. 30	797
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Nov. 22	Jan. 18	878
225	28. Internal-Combustion Engines	Oct. 6	Dec. 15	1,061
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Sept. 1	Feb. 1	631
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Oct. 1	Mar. 7	885
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 15	Oct. 2	1,788
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	July 6	Jan. 15	1,110
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Oct. 29	Jan. 8	683
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	Mar. 14	Mar. 24	184
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 9	Mar. 14	439
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Oct. 29	Nov. 10	1,456
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Oct. 27	Nov. 5	1,534
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 9	Nov. 2	809
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 8	June 5	1,548
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 7	Dec. 13	1,473
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Aug. 28	Jan. 5	813
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Aug. 1	Oct. 4	1,767
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	July 3	Aug. 18	1,126
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Aug. 31	Feb. 17	454
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Sept. 4	Dec. 11	958
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 27	Dec. 30	612
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Aug. 31	Oct. 25	1,026
	Oldest new case, May 27; oldest amended, June 5.			
	Total number of applications awaiting action			43,959
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 5	Feb. 26	4,558
	Designs	Sept. 25	Dec. 1	1,939
	Labels and Prints	Jan. 3	Feb. 17	581

PATENTS

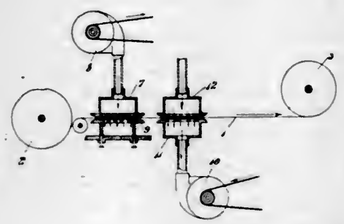
GRANTED APRIL 26, 1921.

1,375,662. PHOTOGRAPHIC-PRINTING MACHINE. JOSEPH ABEL, Washington, D. C. Filed July 12, 1919. Serial No. 310,474. 6 Claims. (Cl. 95—79.)



1. A photographic printing machine comprising a lamp box, a window on top of the box, a mask hinged over the window and a cover hinged over the mask.

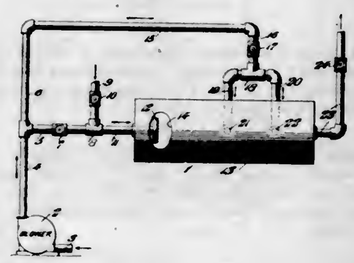
1,375,663. METHOD OF CLEANING KNITTED OR LIKE FABRICS. WILLIAM A. AINSWORTH, Utica, N. Y. Filed Aug. 9, 1919. Serial No. 316,313. 2 Claims. (Cl. 26—2.)



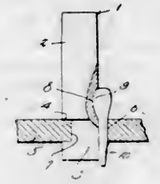
1. The herein described method of cleaning knitted or like fabrics which consists in passing the fabric from one point to another and in stretching the fabric laterally between said points and passing a current of air therethrough at such stretched portions as the fabric passes, substantially as described.

1,375,664. HOT-AIR GENERATOR. HENRY S. AUSTIN, Philadelphia, Pa. Filed Jan. 31, 1921. Serial No. 441,414. 2 Claims. (Cl. 126—116.)

1. In an apparatus of the character described a tank, a burner therein, an air blower, a pipe leading from said air blower and having two branches, one branch communicating with the gas pipe leading to said burner and the other branch conveying fresh air to said tank in advance of said burner, said air and gas pipes being provided with suitable valves for controlling the flow of gas and fresh air.

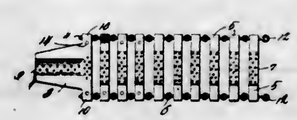


1,375,665. CLEAT FOR TRACTOR-WHEELS. WOLSEY R. BARBOUR, Terre Haute, Ind. Filed July 28, 1919. Serial No. 313,790. 3 Claims. (Cl. 301—44.)



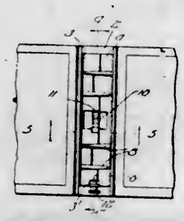
1. In combination with a wheel rim having an opening therein, of a cleat provided with a seating shoulder and a shank extending from the seating shoulder, the shank being adapted to enter the opening in the rim and having a notch for engaging the rim, a key for entering the opening in the rim to force the notch into engagement with the rim and inter-engaging elements on the cleat and key to prevent dislodgment of the key.

1,375,666. TRACTION-MAT. GEORGE P. BAUER, Miami, Ariz. Filed Dec. 27, 1920. Serial No. 433,404. 2 Claims. (Cl. 238—14.)



1. A traction mat including a rigid lift having a tapering studded recess formed in its longitudinal center.

1,375,667. LOOSE-LEAF BINDER. GOTTFRIED P. BAUMANN, Chicago, and RALPH A. FINK, Oak Park, Ill. Filed July 5, 1918. Serial No. 243,276. 11 Claims. (Cl. 129—17.)



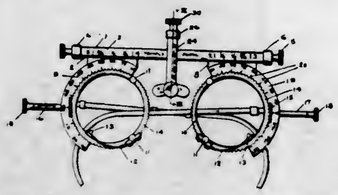
1. A loose leaf binder comprising a hinged back, including a shaft for the hinge, and a spring pressed locking dog carried by the shaft for automatically locking the hinge when the binder is closed.

1,375,668. HAND-GRIP FOR FISHING-RODS. WILBUR L. BEATY, South Butte, Mont. Original application filed Apr. 16, 1919, Serial No. 290,623. Divided and this application filed Nov. 21, 1919. Serial No. 339,625. 4 Claims. (Cl. 43—23.)



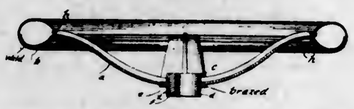
1. A hand grip for fishing rods including a core, a plurality of members circular in cross section arranged around the periphery of the core to extend longitudinally thereof and covering an area of the core, means carried by the core and securing said members at their ends, and a band of adhesive tape around the core and having its adhesive coated face presented outwardly to secure the intermediate portions of the members.

1,375,669. TRIAL-FRAME. WILLIAM H. BOUTELLE, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 29, 1919. Serial No. 314,078. 3 Claims. (Cl. 88—20.)



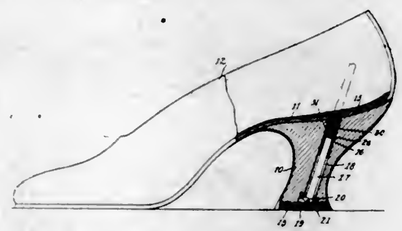
1. In a trial frame the combination with a cross bar, of a slotted tube secured to and depending from said cross bar, a plunger arm slidable within the tube and having a fin engaged in the slot to secure the plunger against rotation, and an adjusting screw engaged with the plunger for controlling the movement thereof.

1,375,670. STEERING-WHEEL. HARRY W. BUNDY, Detroit, Mich. Filed Dec. 26, 1919. Serial No. 347,263. 9 Claims. (Cl. 74—33.)



1. A hand wheel, comprising a rim, a spider formed of stamped strips forming pairs of stamped metal arms lapped over each other at the center and provided with bosses surrounding the central opening, and a hub secured in the opening and within the bosses.

1,375,671. HEEL-FASTENER. LESTER CERF, Brooklyn, N. Y. Filed May 8, 1920. Serial No. 379,837. 3 Claims. (Cl. 36—42.)



1. A heel fastener comprising a heel plate provided with a tubular socket having an internal screw thread, the said heel plate being adapted to rest on the sole of the foot-wear and the said socket being adapted to pass into the upper portion of a bore in the heel, a pin constructed and arranged to pass into the said heel bore from the lower end thereof, and a spring held on the upper end of the pin and adapted to engage the interior thread of the socket to fasten the pin and socket together.

1,375,672. ACID-RESISTING ALLOY. ALVAH W. CLEMENT, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 26, 1917. Serial No. 182,911. 1 Claim. (Cl. 75—1.)

An acid resisting alloy consisting of substantially 60 per cent. chromium, substantially 2 to 4 per cent. silicon, substantially 2 to 5 per cent. carbon existing in the alloy as graphitic carbon, and the remainder of iron.

1,375,673. ACID-RESISTING ARTICLE AND METHOD OF MAKING SAME. ALVAH W. CLEMENT, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 26, 1917. Serial No. 182,913. 4 Claims. (Cl. 75—1.)

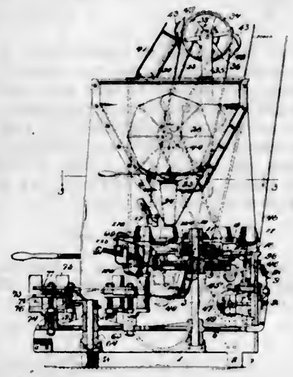
1. The method of forming articles of an iron chromium alloy to have an acid resisting surface which consists in making an iron chromium alloy of the desired proportions which alloy is substantially carbonless, then fabricating the alloy into the article it is desired to make, treating the said article in suitable fashion to impregnate the surface, which should be acid resisting, with carbon, and quickly cooling the surface which is to be acid resisting in any suitable manner, thereby to induce the formation of iron and chromium carbid in the body of the article at the surface which is to be acid resisting.

2. As an article of manufacture having an acid resisting surface, said article comprising a body portion of an alloy of desired ingredients, some or all of which are capable of forming carbids which are acid resisting, the said article at substantially only the surface which is to be acid resisting containing a large proportion of carbids of the metals making up the alloy.

3. As an article of manufacture having an acid resisting surface which consists of a body formed of an alloy of metals of desired ingredients, some or all of which are capable of forming carbids which are acid resisting, that portion of the article which is to be exposed to contact with the acid being made resistant by the presence of carbids of the metals forming the alloy as substantially only the surface exposed.

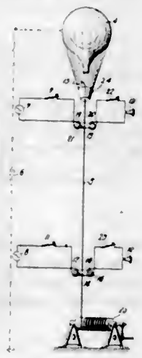
4. As an article of manufacture having an acid resisting surface, a body composed of an alloy of iron and chromium, the acid resisting surface of which is made resistant by the presence of iron and chromium carbid in the body at substantially only the said surface.

1,375,674. FILLING-MACHINE. LAWRENCE COBB, Richmond, Va. Filed Aug. 9, 1918. Serial No. 249,196. 9 Claims. (Cl. 226—72.)



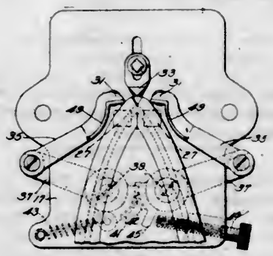
2. A can filling machine, comprising a hopper, a rotatable table below the hopper, radially extending arms carried by the table, charge receiving cylinders carried by the outer ends of the arms and adapted to pass below the hopper, sleeves carried by the said arms and having disks closing the lower ends of the cylinders, springs normally holding the sleeves in an outward position with the disks from below the cylinders, means for intermittently rotating the table, a cam timed with the table rotating means and operating a lever for successively operating the sleeves for withdrawing the disks from below the cylinders, a rotary can supporting means below the table and driven by the table and adapted to receive the discharge from the charge receiving cylinders.

1,375,675. SIGNALING METHOD AND SYSTEM. EDWIN H. COLPITTS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1917. Serial No. 146,703. 17 Claims. (Cl. 179—1.)



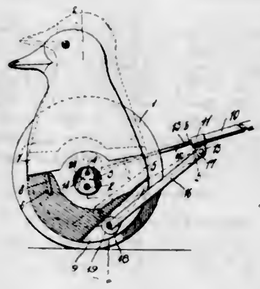
1. The combination of an aerial vessel, an anchoring strand connecting said vessel to the ground, an electric circuit comprising said strand and the capacity of said vessel to ground, means for signaling over said circuit comprising a source of signals at one end of said strand, means for impressing said signals upon said strand, a receiver near the other end of said strand, and a transformer, the primary winding of said transformer consisting of said strand and having its secondary connected to said receiver.

1,375,676. SOLE-FITTING MACHINE. JOHN W. COSGROVE, Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 19, 1917. Serial No. 197,464. 11 Claims. (Cl. 12—40.)



1. A sole fitting machine, having, in combination, a knife for cutting into the marginal portion of a sole, gages for engaging the edge of the sole to position it for the operation of the knife, and a combined presser gage and sole stripper adjacent the knife.

1,375,677. TOY. JOHN F. CRIST, Cleveland, Ohio. Filed May 24, 1920. Serial No. 383,754. 1 Claim. (Cl. 46—45.)

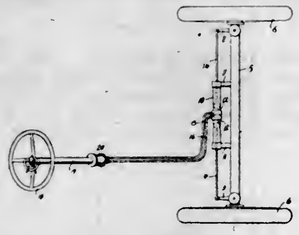


In combination, an axle, a pair of disks mounted thereon, a counter balance carried by the axle, and provided with depending apertures in its top portion, and in its bottom portion with an elongated slot, a handle, spring arms extending from said handle, pintles provided on said arms, said pintles adapted to engage the device, a ferrule mounted upon the end of said handle, a rod pivotally connected to the ferrule and extending into said slot in said counter balance and pivotally connected therein.

1,375,678. HYDRAULIC STEERING-GEAR. HOLLIS B. CRUM, Bucyrus, Ohio, assignor to Bucyrus Machine and Tool Co., Bucyrus, Ohio, a Corporation of Ohio. Filed Mar. 9. 1920. Serial No. 364,437. 4 Claims. (Cl. 180—80.)

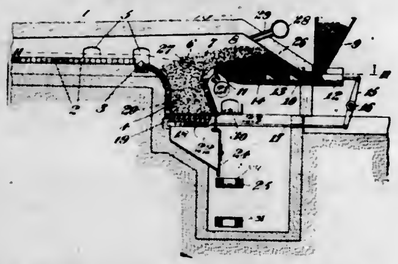
4. A steering mechanism in combination with the steerable wheel axle set and steering post of a vehicle, comprising a pump carried on the steering post, a plunger within the pump and actuated by the steering post, said pump divided into two compartments having a fluid passage in each compartment, a fluid motor carried on the axle and connecting with the vehicle wheels, and a tube

connection established between the fluid motor and each fluid passage whereby turning the steering post forces



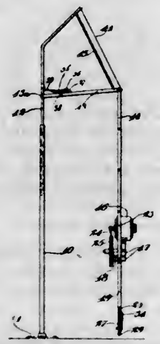
fluid from one of the pump compartments into the fluid motor and receives fluid into the other compartment from the fluid motor.

1,375,679. HEATING-FURNACE. EMIL C. DANNER, Westmont borough, Pa. Filed Sept. 18, 1919. Serial No. 324,659. 6 Claims. (Cl. 110—44.)



1. A furnace comprising a combustion chamber, a heating chamber leading therefrom, a water-cooled fire-box below the rear of said combustion chamber, a stationary grate at the top of the front wall of said fire-box, a rocking grate at the bottom of said fire-box, means for supplying air to the under sides of said grates, and means for feeding coal upwardly into said combustion chamber and thence across said stationary grate into the fire-box.

1,375,680. PERFORATING-MACHINE. ANDREW L. DAUTERY, Chicago, Ill. Filed July 3, 1920. Serial No. 393,820. 4 Claims. (Cl. 164—89.5.)



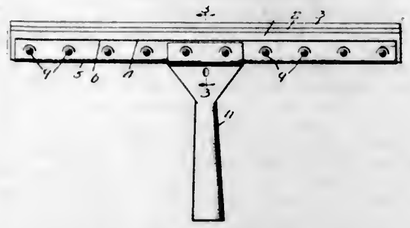
1. In a perforating machine, a reciprocatory bar, a perforating needle carried by the bar, a swinging member carrying the needle bar, an electric motor carried by said member and having an operative connection with the needle bar, and a switch for the motor circuit controlled by the movement of the swinging member.

1,375,681. BRUSH. EDWARD AUGUSTUS DENNIN, Troy, N. Y. Filed Oct. 15, 1919. Serial No. 330,694. 10 Claims. (Cl. 132—87.)



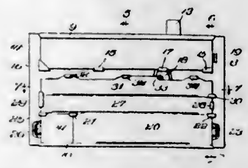
10. A brush comprising in combination, a carrying back having a cavity open at one face thereof, a flexible bristle carrying body carried by said body adapted to be flexed to extend from said cavity or lie therein when not in use, a cover detachably connected to said carrying body to close the cavity thereof when said bristle carrying body is within the cavity, and a glass carried by said cover at the inside thereof to confront and engage the bristles of said bristle carrying body.

1,375,682. SQUEEGEE. WILLIAM J. DENNIS, Chicago, Ill. Filed June 18, 1920. Serial No. 389,949. 2 Claims. (Cl. 15—59.)



1. A squeegee comprising a head consisting of flexible material, and a plate engaging one side of said material, a second plate disposed upon the other side of said material and having a rebent part extending toward the working surface of the flexible material and providing a trough, and means for securing said plates together.

1,375,683. PRINTING DEVICE. JOSEPH S. DUNCAN, Chicago, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1919. Serial No. 306,028. 9 Claims. (Cl. 101—369.)

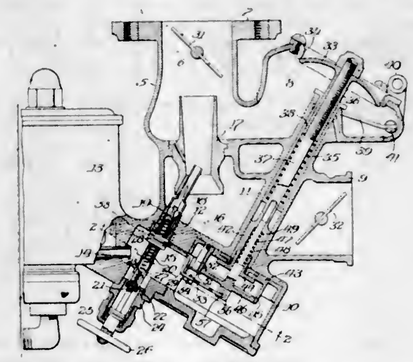


1. A printing device of the character described comprising a frame having means for retaining a card in place thereon, said means comprising a plurality of parts integral with the frame and engaging the four corners of the card.

1,375,684. CARBURETER. WILLIAM A. EDWARDS, Chicago, Ill., assignor, by mesne assignments, to William Reid, Chicago, Ill. Filed Nov. 15, 1915, Serial No. 61,505. Renewed Feb. 3, 1921.. Serial No. 442,543. 8 Claims. (Cl. 261—48.)

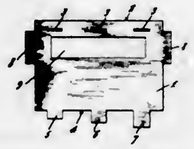
2. In a carbureter, the combination of a fuel valve, an air valve, and operative connections between said valves

including a fulcrum movable with said air valve and a lever attached at one end to said fuel valve and yieldably



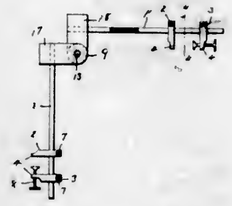
connected at its other end to said air valve whereby said fuel valve is controlled by the air valve.

1,375,685. MARKER. GEORGE WILLIAM ERICSON, Galesburg, Ill. Filed Sept. 2, 1920. Serial No. 407,678. 1 Claim. (Cl. 40—21.)



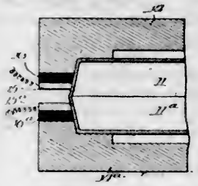
A marker fashioned from a plate disposed in tubular form and provided adjacent to one longitudinal edge with a plurality of openings, and provided along its opposite longitudinal edge with reduced tongues received in the openings and clenched on the plate, the tongues decreasing successively in length to facilitate the insertion of the tongues one at a time into the openings, the plate being equipped at its ends with inwardly projecting card holding fingers, there being an aperture in the plate, between the fingers, adapted to disclose a card held in the fingers.

1,375,686. CLAMP. AUGUST C. FELTON, La Salle, Ill. Filed July 13, 1920. Serial No. 396,029. 2 Claims. (Cl. 144—289.)



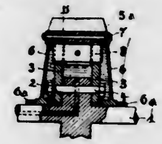
1. A clamp of the character specified comprising a pair of elongated bars forming clamp-supports and having a swivel connection at one end to permit of relatively angular adjustment in parallel planes, and clamp devices slidably mounted on the said supports and having clamp units individually adjustable longitudinally of the said bars.

1,375,687. APPARATUS FOR ELECTRIC WELDING. GEORGE H. FORSYTH, Chicago, Ill. Filed May 3, 1915. Serial No. 25,355. 6 Claims. (Cl. 219—4.)



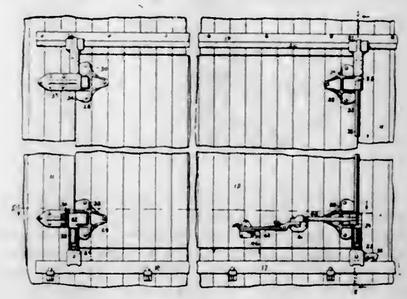
1. In an apparatus for welding articles having an extended line of abutting edges, clamping members arranged on opposite sides of and throughout the line of contact between the articles, and electrodes carried by said members, the electrical contact between the electrodes and the articles to be welded being confined locally adjacent the abutting edges.

1,375,688. ARRANGEMENT FOR RESILIENT POWER TRANSMISSION. MAX FRIZ, Milbertshofen, near Munich, Bavaria, Germany, assignor to Bayerische Motoren Werke, Aktiengesellschaft, Munich, Bavaria, Germany. Filed Aug. 2, 1920. Serial No. 400,835. 9 Claims. (Cl. 74—29.)



1. In an arrangement for the prevention of injurious resonance effects in connection with resilient power transmission, a driving part, a driven part, and interposed means for resiliently transmitting the power from the driver to the driven, said means being of differing tension as regards direction and magnitude.

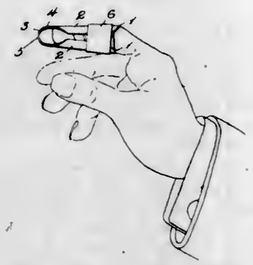
1,375,689. FLUSH CAR-DOOR. JOHN P. GALLAGHER, Jersey City, N. J., assignor to Victor Equipment Co., Inc., a Corporation of New York. Filed Aug. 17, 1917. Serial No. 186,678. Renewed Oct. 22, 1920. Serial No. 418,772. 4 Claims. (Cl. 20—23.)



1. In a sliding door construction, the combination of a member provided with an opening, a track spaced out from said opening, a door guided to slide parallel to said track, a sliding journaling casing guided by said track, a horizontally disposed link having one end enlarged to form a knuckle, a vertically extending pin constituting a pivotal connection between the knuckle and the casing, pivotal means for connecting the opposite end of the link to said door, a stop spaced vertically from the casing so as not to be engaged by the same, said stop disposed to be engaged by the knuckle thereby to constitute a bear-

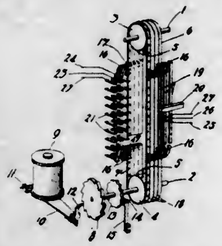
ing for the advanced end of the link during the swinging movement of the door into the opening when the door is moved forcefully along the track to cause the link to engage the stop, said stop being positioned in line with the pivotal means at the door engaging end of the link.

1,375,690. FINGER-GUARD. LEON W. GEORGE, St. Louis, Mo., assignor to Howe Safety Appliance Company, Granite City, Ill., a Corporation of Delaware. Filed Feb. 28, 1919. Serial No. 279,732. 2 Claims. (Cl. 2—104.)



1. As a new article of manufacture, a finger-guard formed of a single elongated strip of metallic material and, by permanent bending of the strip, comprising integrally a pair of spaced longitudinally disposed yielding leg-portions and a central portion joining the legs at one end, the leg-portions being transversely of opposed convexed curvature and the central portion being longitudinally gently rounded and arcuately cutaway at its opposite side-edges and thereby reduced in width relatively to the leg-portions, the leg-portions and the central portion being adapted to embrace and shield both the front, back, sides, and end of the finger.

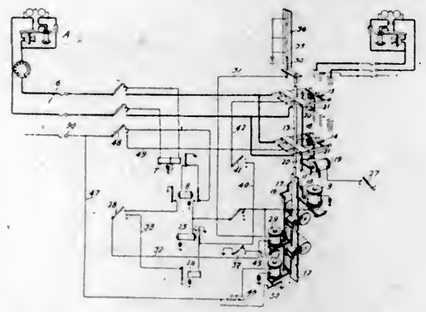
1,375,691. SELECTIVE SWITCH. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1917. Serial No. 190,367. 10 Claims. (Cl. 179—27.5.)



1. A selective switch having in combination, a pair of rotatable members, an endless carrier thereon having a driving engagement therewith, stationary circuit terminating feed members, a row of fixed circuit terminals, a plurality of brushes mounted on said carrier and arranged to make contact with the feed members and circuit terminals to electrically interconnect said feed members and circuit terminals, and means for operating said carrier.

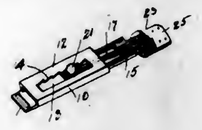
1,375,692. MACHINE-SWITCHING DEVICE. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,927. 11 Claims. (Cl. 179—27.5.)

1. In a telephone switching system, subscriber's impulse-sending mechanism, stationary contacts arranged in groups and sub-groups, a movable carriage, contacts mounted thereon, and step-by-step mechan'sm and power-drive mechanism operating directly upon said carriage



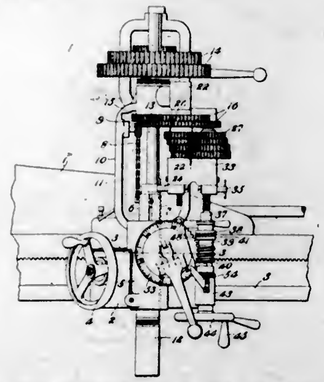
in response to the operation of said impulse-sending mechanism to move said movable contacts into engagement with a desired set of stationary contacts in a desired group and sub-group.

1,375,693. FASTENER. GEORGE E. GOODRICH, Providence, R. I. Filed Nov. 13, 1920. Serial No. 423,956. 3 Claims. (Cl. 24—206.)



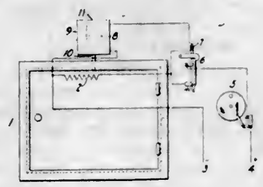
2. A garment fastener comprising a housing member, a plate member slidable in said housing, one of said members being provided with a pawl and the other with ratchet means for retaining them in relative adjusted position, means whereby one of said members may be permanently connected to a garment, a catch member adapted to be permanently connected to another portion of the garment, and means for detachably connecting one of said adjustable members to said catch member.

1,375,694. FEED MECHANISM. JAMES CLYDE HALDEMAN, Salem, Ohio, assignor to The Silver Manufacturing Company, Salem, Ohio, a Corporation of Ohio. Filed July 11, 1919. Serial No. 310,084. 6 Claims. (Cl. 77—33.)



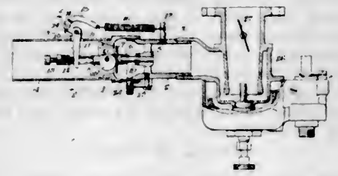
1. In feeding mechanism of the character described, the combination of a hand wheel shaft, a sleeve mounted upon the upper end of said shaft, a removable pin located through said sleeve and shaft, a shaft located in axial alinement with said hand wheel shaft and extending into said sleeve, a clutch member fixed upon the upper end of said sleeve, a co-acting clutch member slidably mounted upon the axially alined shaft and means for raising said last named shaft out of engagement with the sleeve.

1,375,695. OVEN. MARSHALL W. HANKS, Mount Vernon, N. Y., assignor to Hankscraft Company, a Corporation of Wisconsin. Filed Jan. 30, 1920. Serial No. 355,070. 6 Claims. (Cl. 219—20.)



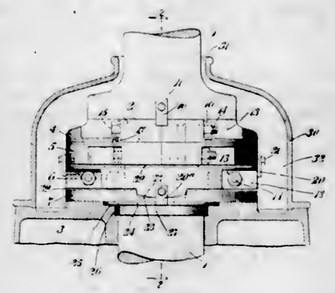
1. The combination with an electrically heated oven, of a circuit controlling means comprising a thermostat and a chamber containing the thermostat and connected to the oven by a relatively small conduit.

1,375,696. AUTOMATIC VALVE. HENRY HELLWEG, Milwaukee, Wis. Filed June 11, 1917. Serial No. 173,993. 8 Claims. (Cl. 251—145.)



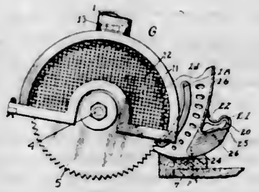
1. An automatic valve adapted to be opened by fluid pressure and provided with a spring and lever tending to close the valve and arranged to oppose a diminishing resistance to its opening movement and act with increasing energy in its closing movement.

1,375,697. COMPENSATING BEARING. LOUIS JOSEPH HIRT, Yonkers, N. Y. Filed July 16, 1919. Serial No. 311,118. 5 Claims. (Cl. 64—25.)



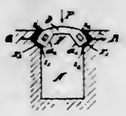
1. The combination with a shaft provided with a bearing flange and a bearing member spaced apart from said flange of a plurality of intermediate bearing members, one of which is diametrically and sidewise rockable on another, and another of which is diametrically and sidewise rockable, at right angles to such rocking movement, on another bearing member; said bearing members severally having opposed surfaces which are opposedly flat except where in rocking contact one with another, and comprising opposed rocking surfaces formed by interworking rocker lugs projecting from a flat surface and by rocker-lug receiving recesses reëntrant in a flat surface, the rocker lugs and their receiving recesses being dimensioned to space the opposed flat surfaces of the members apart when they are parallel one to another.

1,375,698. SAFETY-GUARD FOR SWING-SAWS. ANDREW F. HOWE, Granite City, Ill., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill., a Corporation of Illinois. Filed July 19, 1918. Serial No. 245,750. 2 Claims. (Cl. 143—159.)



1. An auxiliary safety-guard for oscillatory rotary-saws comprising integrally a segmental plate, an arcuate flange presented laterally from the peripheral margin of the plate and adapted to extend in spaced relation transversely across the teeth of the saw, and a riding-nose projecting forwardly beneath the flange, the nose having an elongated arcuate under face and rounded end and oblique side faces for the purposes specified.

1,375,699. WEDGE OR KEY FOR SLOTTED DYNAMO-ELECTRIC-MACHINE ELEMENTS. MAX JOSEPH ILG, Nuremberg, Bavaria, Germany, assignor to Siemens-Schuckert Werke G. M. B. H., Siemensstadt, near Berlin, Germany. Filed May 27, 1915, Serial No. 30,844. Renewed Sept. 15, 1920. Serial No. 410,483. 10 Claims. (Cl. 171—252.)

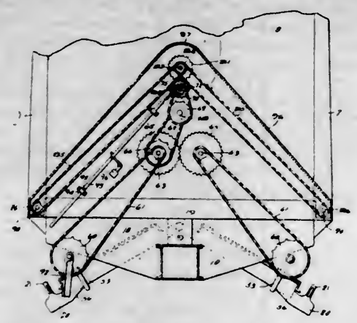


1. A wedge or key for the slots of dynamo-electric machine elements, consisting of laminated magnetizable flanks, and bridges connecting said flanks, said bridges being of malleable material, whereby said wedge or key may be spread into its seat by deforming said bridges, substantially as described and for the purposes set forth.

1,375,700. DUMP-CAR. FRANK S. INGOLDSBY, Pasadena, Calif., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio, a Corporation of West Virginia. Filed July 7, 1917. Serial No. 179,130. 27 Claims. (Cl. 105—244.)

1. In a dump car, the combination with hinged dumping doors having rigid extensions extending to the side of the car, locking means coacting with said extensions, a

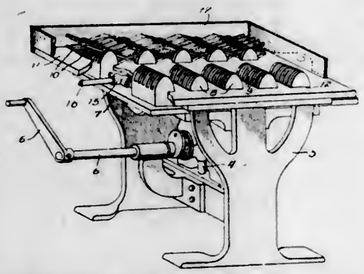
bar carrying locking devices and extending longitudinally along the car side, a screw rigid with the bar, a nut thereon having sprocket teeth, and a chain and sprocket gearing for actuating the nut.



1,375,701. AZO DYESTUFFS DYEING ON MORDANTS. CARL JAGERSPACHER, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Nov. 15, 1919. Serial No. 338,346. 2 Claims. (Cl. 8—1.)

1. As new products, the herein described azodyestuffs dyeing on mordants, derived from aromatic orthooxy-diazocompounds and 1:8-dioxynaphthalene-sulfocarboxylic acids, which constitute, in a dry state, black to dark brown powders dissolving in water with violet colorations and in concentrated sulfuric acid with violet to green-blue colorations, dye wool in an acid bath red brown to blue-violet tints becoming on subsequent chroming, fast blue and olive to black and produce, when printed on cotton with chromium mordants, fast blue to black tints.

1,375,702. MOLDING BRAKE-SHOE INSERTS. HARRY JONES, Suffern, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed July 24, 1920. Serial No. 398,692. 12 Claims. (Cl. 22—160.)



6. In a machine of the character described, the combination of a mold support, a pattern for the mold, means for withdrawing the pattern from the mold, and means for supplying an air blast through the pattern to the mold cavity.

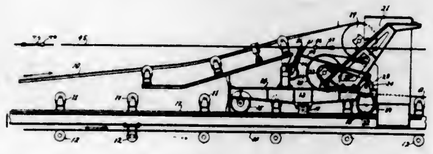
1,375,703. GREASE-CUP FOR LOCOMOTIVES. WILLIAM S. KEARNS, Duluth, Minn., assignor, by direct and mesne assignments, of one-fourth to Hugh B. Smith, St. Paul, Minn., and one-half to Peter Wertz, Pittsburgh, Pa. Filed Apr. 14, 1920. Serial No. 373,751. 3 Claims. (Cl. 184—48.)

2. The combination with a connecting rod strap, or the like, and a grease cup applied thereto, said grease cup being internally threaded, of a follower working with threaded engagement in said cup, and a lock for said follower in the form of a spring rod anchored to said cup and strap to prevent relative rotation thereof and having



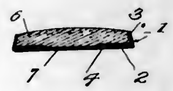
a pawl-acting end working through a perforation in said cup and engageable with the threads of said follower, the said follower having a ratchet-like groove cut longitudinally through its threads.

1,375,704. UNIFORMLY-DISTRIBUTING TRIPPER. MYRON A. KENDALL, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill., a Corporation of Illinois. Filed July 15, 1919. Serial No. 310,966. 3 Claims. (Cl. 193—25.)



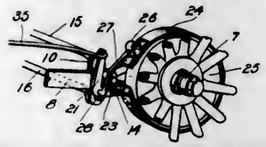
1. In a tripper for belt conveyers, in combination, a wheeled truck, tripping belt pulleys mounted on the truck, a gear wheel mounted rigidly with one of the truck wheels, a countershaft, driving connection between one of the belt pulleys and such shaft, a gear wheel fixed on the shaft, a frame swinging about the shaft, a pair of intermeshing pinions carried by the frame, one thereof meshing with the gear fixed to the shaft, such pinions being so positioned that they may alternatively be brought into mesh with the gear wheel mounted with the truck, and means for swinging the frame.

1,375,705. ROUGE-PAD. WILLIAM G. KENDALL, Newark, N. J. Filed Dec. 23, 1918. Serial No. 268,066. 3 Claims. (Cl. 132—82.)



3. As a new article of manufacture, a metallic pad comprising a shallow container having an opening in its bottom, a cosmetic cake anchored within the container, and a disk of absorbent material disposed between the cake and the bottom of the container and having a portion exposed at the exterior of the pad through said opening.

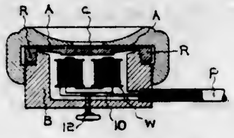
1,375,706. VEHICLE-BRAKE. HENRY KIMMET, Kansas City, Mo., assignor to The Liberty Manufacturing & Sales Company, Kansas City, Mo., a Corporation of Missouri. Filed Feb. 11, 1919. Serial No. 276,350. 4 Claims. (Cl. 188—18.)



1. In a braking mechanism for attachment to motor vehicles, radius rod engaging brackets consisting of

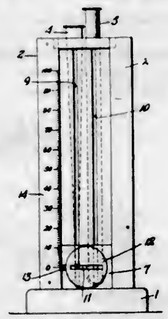
spaced plates to engage opposite sides of the respective radius rods, transversely extending tie bars connecting said brackets, spindles on said brackets, brake actuating levers carried by the spindles, and means for actuating said levers.

1,375,707. TUNING OF DIAPHRAGMS FOR GENERATING OR RECEIVING SOUND-WAVES. LOUIS VESSOT KING, Montreal, Quebec, Canada. Filed Apr. 1, 1919. Serial No. 286,805. 7 Claims. (Cl. 179—181.)



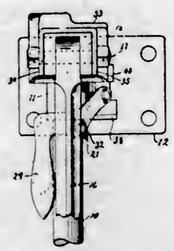
1. The combination with a diaphragm having a practically rigid central effective area supported by a relatively thin annular surrounding portion whose tension determines the pitch of the vibrations of the central area, and means whereby the said central area is adjusted by the application of gaseous pressure or suction.

1,375,708. COLORIMETER. ROBERT E. KLETT, Ridgefield Park, N. J. Filed Aug. 25, 1920. Serial No. 405,857. 8 Claims. (Cl. 88—14.)



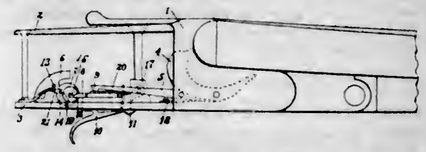
1. A colorimeter comprising a stand carrying a stationary diaphragm having longitudinal slots, a standard solution tube comprising a light transmitting plate having a diagonally cut tube fused thereto along its cut portion so as to provide a longitudinal section of varying thickness, located behind one slot, an unknown solution tube behind the other slot, an eye piece, and means for bringing the beams from said two tubes adjacent each other at the eye piece.

1,375,709. BRAKE-HANDLE. NELS KROHN, Chicago, Ill., assignor to The Adams & Westlake Company, a Corporation of Illinois. Filed June 3, 1919. Serial No. 301,501. 21 Claims. (Cl. 74—114.)



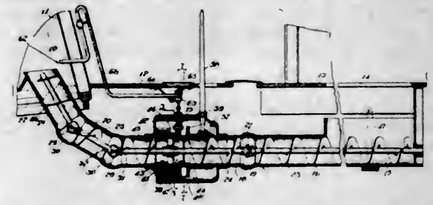
21. In a brake handle, in combination, a vertical staff, a wheel fixed to said staff, a head oscillatable about said staff, and wedging means carried by said head movable in a path tangential to said wheel and gravity urged toward said wheel.

1,375,710. SINGLE-TRIGGER MECHANISM FOR DOUBLE-BARREL GUNS. CHARLES W. LINDSAY, Houston, Tex. Filed July 1, 1919. Serial No. 307,996. 4 Claims. (Cl. 42—42.)



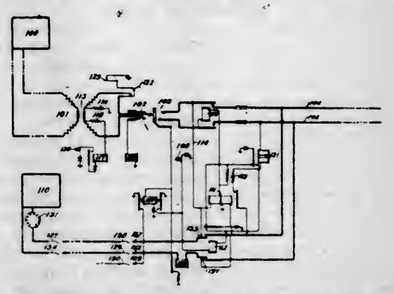
1. A single trigger mechanism of the character described including hammer controlling sears, a trigger formed into a common sear actuating means, a pivoted crescent shaped detent arranged to be actuated by the trigger and locking the trigger after releasing one of the sears from its hammer, a detent locking mechanism automatically disengaging upon release of the trigger to permit the further movement of the trigger whereby the common sear-actuating means is brought into engagement with, and actuates, the other sear.

1,375,711. LOCOMOTIVE-STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed May 26, 1917. Serial No. 171,209. 16 Claims. (Cl. 110—104.)



16. A stoker comprising, in combination, a fire-box, means to deliver fuel into said fire-box, and means to scatter said fuel as delivered, comprising a continuous blast of fluid under pressure which blast is of undulating intensity.

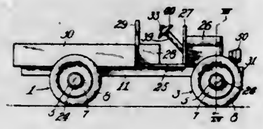
1,375,712. TELEPHONE-EXCHANGE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1918. Serial No. 224,497. 13 Claims. (Cl. 179—27.)



1. In a telephone exchange system, subscribers' telephone lines, a trunk circuit, a connecting circuit associated with said trunk circuit, selective switches arranged to extend said connecting circuit to a called line, switching means for associating a calling line with said trunk

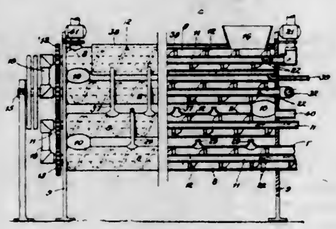
circuit, means associated with a calling line for producing current impulses, said trunk circuit being arranged to transmit said impulses over its two conductors in series, means responsive to such impulses for operating said selective switches, said trunk circuit being electrically disconnected from the calling line and said connecting circuit during the transmission of impulses, connecting means operated upon the response of the called subscriber for connecting said trunk to said connecting circuit, and a second connecting means responsive to the operation of said first connecting means for connecting said calling line to the trunk circuit.

1,375,713. TOY MOTOR-VEHICLE. WALTER O. MCDANIEL, Indianapolis, Ind., assignor to The H-K Toy & Novelty Co., Indianapolis, Ind., a Corporation of Indiana. Filed June 15, 1918. Serial No. 240,256. 5 Claims. (Cl. 208—165.)



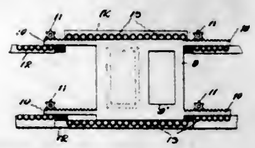
1. In a toy motor vehicle, a front axle comprising a wooden axle bar having a slot extending horizontally in each of its two opposite ends, two wooden stub axle bodies having each a relatively thin pivot ear on one end and a socket bored horizontally in the opposite end thereof, the latter end being squared, the ears being arranged in said slots respectively and pivoted to the axle bar, and wooden axle journals secured in said sockets respectively and having each a collar integral therewith.

1,375,714. CARBONIZING APPARATUS. HECTOR NORMAN MCLEOD, Wellington, New Zealand. Filed Dec. 18, 1920. Serial No. 431,730. 12 Claims. (Cl. 202—9.)



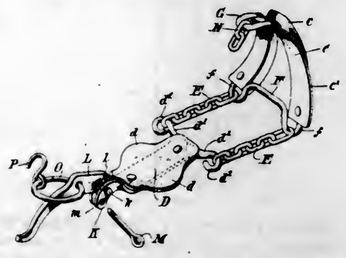
1. Apparatus for carbonization and for the recovery of valuable distillation products from carbonaceous materials, said apparatus comprising a plurality of chambers disposed in a series such that the discharge end of one chamber leads into the receiving end of the next chamber in the series, said chambers being divided into two sets with separate heating circuits therefor, the heating circuit of the second set of chambers comprising a primary source of heated gas and conduits receiving such heated gas whose walls are in contact with the material in the chambers of the said second set, the direction of flow of the heated gas through said conduits being in countercurrent to the direction of passage of the material through the chambers of the second set, condensing apparatus with connections leading from the last chamber of the second set adapted for receiving the products of distillation from said last chamber, jackets upon said condensing apparatus adapted to allow of the passage of a cooling medium for taking up heat from the products to be condensed, and conduits whose walls are in contact with the material in the chambers of the said first set of chambers, said conduits receiving the heated cooling medium from the jackets of the condensing apparatus and conveying it in countercurrent to the direction of movement of the material to be carbonized through such chambers of the first set, and conveying means adapted to propel the material to be carbonized continuously through the chambers of the first set and then through the chambers of the second set.

1,375,715. DIVING APPARATUS. YOSHIO MATSUMURA, Tokyo, Japan. Filed Aug. 14, 1918. Serial No. 249,890. 3 Claims. (Cl. 61—69.)



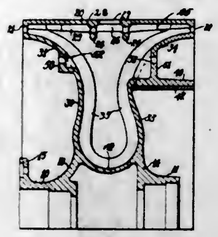
1. In diving apparatus, a shell having an outer wall provided with a door opening and an inner wall spaced from the outer wall and also having a door opening opposite that of the outer wall, a sliding door arranged in the space between the inner and outer shells and having an opening adapted to register with the first named openings when said door is in one position, and means to operate said door.

1,375,716. MUD-GRIP FOR AUTOMOBILE-WHEELS. VACLAV MIKULECKY, Verdigre, Nebr. Filed Nov. 13, 1920. Serial No. 423,823. 3 Claims. (Cl. 152—14.)



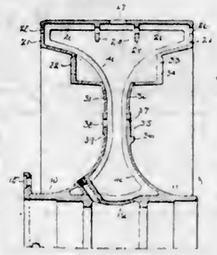
1. A mud grip comprising a V-shaped gripping member having a cross-piece for bracing the outer ends of the arms of the V, locking devices, short lengths of chain connecting the locking devices with said cross-piece, and a short length of chain connecting the locking devices with the opposite end of the gripping member.

1,375,717. VEHICLE-WHEEL. VAN ZANDT M. MOORE, Cleveland Heights, Ohio. Filed Aug. 20, 1917. Serial No. 187,145. 9 Claims. (Cl. 301—65.)



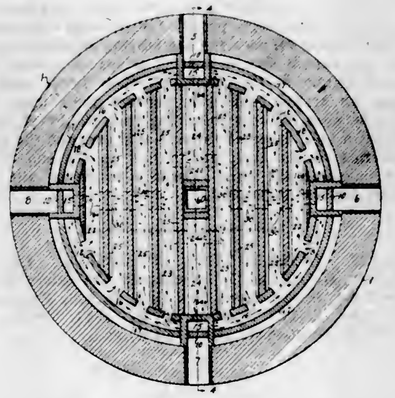
3. In a cast metal wheel, the combination of a hub, a rim with edge flanges, two webs connecting the hub with said edge flanges, a pair of annular ribs formed on the inner face of the rim, diagonal stiffening ribs on the inner face of the rim between the annular ribs and the edge flanges, and transverse stiffening ribs on the inner face of the rim between the two annular ribs.

1,375,718. VEHICLE-WHEEL. VAN ZANDT M. MOORE, Cleveland, Ohio. Filed Oct. 5, 1918. Serial No. 256,951. 13 Claims. (Cl. 301—65.)



1. In a wheel, the combination of a hub, a rim, two webs connecting the hub and rim, and a narrow bracing rib formed on the inner face of each web and extending longitudinally of the axes across and in engagement with the outer face of the intermediate portion of the hub, the rib portions which are on the inner faces of the two webs being out of contact with each other.

1,375,719. BRICK-KILN. FRANK MUNHOLLON, Cleveland, Ohio. Filed Dec. 29, 1919. Serial No. 348,141. 12 Claims. (Cl. 25—135.)



1. A brick kiln having a series of furnaces spaced about the outer wall thereof, a floor having substantially uniform space therein, transverse passages beneath the floor, and passages connecting these transverse passages with the furnaces, and having openings into the transverse passages varied in size with relation to the distance from the furnaces.

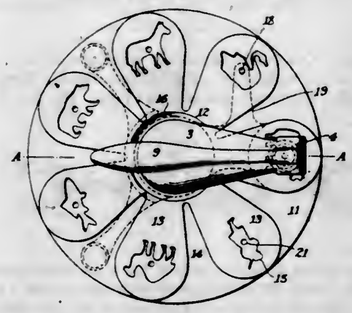
1,375,720. SIGNALING DEVICE FOR VEHICLES. JESUS B. MUÑIZ; Habana, Cuba. Filed Sept. 23, 1919. Serial No. 325,663. 3 Claims. (Cl. 40—77.)

1. In a traffic signaling device, a casing having an opening in one wall and also having an opening in the opposite wall and a removable closure for the last named opening; a shaft mounted for rotation in bearing openings in the first-named wall and said closure, a signal-



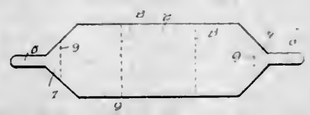
bearing disk on said shaft, and means detachably secured on the ends of the shaft to hold the closure in place and prevent casual endwise movement of the shaft.

1,375,721. TOY. EDGAR B. NICHOLS, Rochester, N. Y. Filed Dec. 16, 1919. Serial No. 345,429. 10 Claims. (Cl. 164—26.)



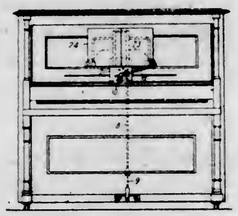
1. A toy for cutting out figures from sheet material comprising a base and a head projecting therefrom; a platen guided in the head, and provided with operating means; a set of dies fitting loosely and revoluble on said head, the dies comprising a pair of plates fixed together; radial tongues on one of said plates having perforations; slugs fixed to the other plate and adapted to register with corresponding perforations in the tongues; and means for holding any desired tongue under the platen.

1,375,722. BERRY-BOX. EDWARD ETTINGER OGDEN, Hoquiam, Wash. Filed Sept. 22, 1920. Serial No. 412,016. 1 Claim. (Cl. 229—23.)



A box comprising a frame having walls provided with oppositely located notches uniformly enlarged toward their upper ends and opening out through the upper edge of the frame, a bottom having upstanding sides provided with reduced triangular portions arranged exteriorly of said frame and closing said notches, the edge portions of said reduced portions being extended beyond the side walls of said notches, and narrow downwardly directed tongues formed at the lower ends of said reduced portions and extended through the lower ends of said notches, said narrow downwardly directed tongues being detachably arranged between the inner sides of the frame and the adjacent sides of said bottom.

1,375,723. LEAF-TURNING DEVICE. OLOF WILLIAM OLSON, New York, N. Y., assignor of one-half to August W. Anderson, New York, N. Y. Filed July 17, 1919. Serial No. 311,646. 11 Claims. (Cl. 84—520.)



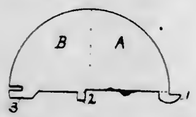
1. In a leaf turning device, a rack, a telescopic arm to move back and forth across said rack, a support for said parts, a rotary device comprising a four armed wheel carried by said arm, and a plurality of stationary means to respectively differentially turn the rotary device when the arm moves in one direction and to allow the latter to move in the other direction without turning.

1,375,724. COUPLING-HOOK. STANLEY OPONIAK and AUGUST H. RAINFTLEN, Plantsville, Conn. Filed Jan. 11, 1921. Serial No. 436,407. 1 Claim. (Cl. 24—230.5.)



Two coupling S hooks, both of the same shape and form and both formed from wire, and each comprising a medial portion with an eye at one end and a hook at the other end, the ends of the hooks being taper-pointed, and the points separated from the medial portion to an extent less than the diameter of the wire from which the devices are formed, so that, when the points are brought together at the proper angle, the points will pass, whereby the two hooks may be engaged or disengaged.

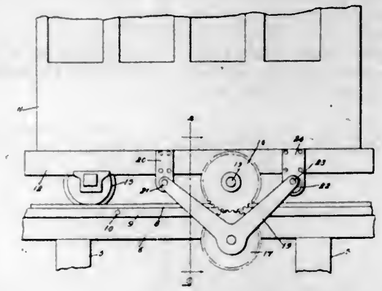
1,375,725. CONTAINER-SPOUT. FRANCIS C. OSBORN, Detroit, Mich. Filed June 17, 1916. Serial No. 104,300. 5 Claims. (Cl. 221—11.)



1. In combination with the top plate of a pivoted container spout, a rearwardly extending tongue integral with the rear edge of the plate and having a laterally extending portion extending laterally beyond said edge and the body of the spout and adapted to coöperate with the inner surface of the container laterally beyond the body of the spout as a hinge pivot.

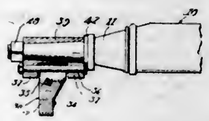
1,375,726. RAILWAY. MATHIAS A. PATTON, Salt Lake City, Utah. Filed Jan. 27, 1921. Serial No. 440,472. 4 Claims. (Cl. 105—30.)

4. In combination with a track having auxiliary rails, a truck adapted to move on the track, a wheel supported by the truck, and adapted to move on the auxiliary rail, means carried by the truck and adapted to engage the



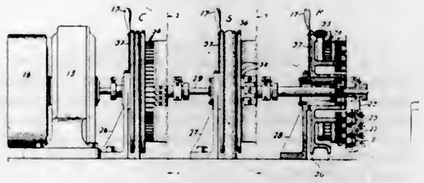
under side of the auxiliary rails, and means for moving the last mentioned means into and out of operation.

1,375,727. RUNNER ATTACHMENT. CARL J. PETERSON, Eldridge, N. D. Filed Feb. 25, 1920. Serial No. 361,115. 1 Claim. (Cl. 280—14.)



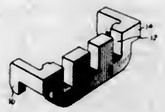
A runner attachment for the axles of wheeled vehicles consisting of a runner, upper and lower bearing members constructed to rotatably receive the axle between them, the lower member being provided at its ends with depending ears, means for securing the bearing members together about the axle, a knee consisting of spaced vertical arms secured rigidly to the runner at their lower ends and having an arched connection between their upper ends fitting between the ears depending from the lower bearing member, a pivot inserted through said ears and the arched connection of the knee, and means on the end of said pivot engaging the ears exteriorly to secure the pivot against endwise movement.

1,375,728. DISTRIBUTING APPARATUS. PAUL M. RAINEY, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 28, 1917. Serial No. 188,587. 2 Claims. (Cl. 178—53.)



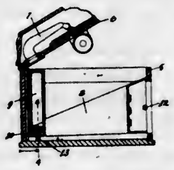
1. A distributing apparatus comprising a rotatable head, a distributer face carried by said head, segments on said face, a cable containing a plurality of flexible conductors, the conductors of said cable being connected directly to said segments, and means whereby said head may be rotated without altering the connections to said segments.

1,375,729. WARP-STOP-MOTION FRAME. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1920. Serial No. 374,026. 2 Claims. (Cl. 139—92.)



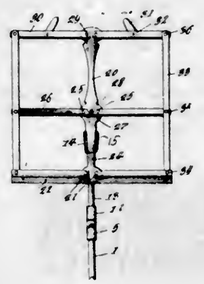
1. A warp stop motion frame comprising fixed end plates, a plurality of drop wire separator bars and supports for said bars, said end plates and said supports having coöperating engaging portions by which said supports may be detachably mounted on said frames.

1,375,730. PHONOGRAPH. GEORGE M. RENTZ, Wells, Minn. Filed Apr. 8, 1920. Serial No. 372,379. 3 Claims. (Cl. 274—2.)



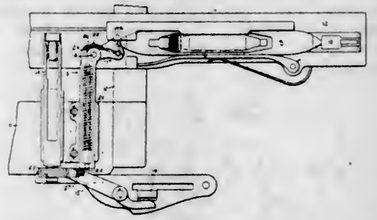
1. In a sound reproducing machine and cabinet therefore, a sound amplifying horn suspended within said cabinet, means for pivotally supporting the front end of said horn, and resilient means for supporting the rear end of said horn.

1,375,731. COPY-HOLDER. APOLINAR RESTREPO, Medellin, Colombia. Filed July 16, 1919. Serial No. 311,344. 1 Claim. (Cl. 120—28.)



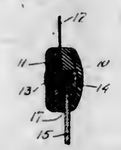
A copy holder comprising a rack consisting of an upright central shank, a series of transverse members made in pairs pivoted at their inner ends at different points on said shanks, means pivotally connecting their outer ends, the inner extremities of one pair of said members projecting beyond their pivot and provided with shoulders and adapted to abut when said members are disposed in alinement with each other, and a stop on said shank against which said shoulders abut as the members are disposed in alinement.

1,375,732. SHUTTLE-PLACER. EPPA H. RYON, Waltham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 12, 1918. Serial No. 244,638. 6 Claims. (Cl. 139—85.)



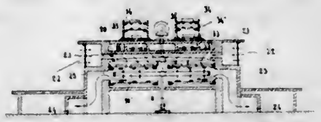
1. In a loom, a movable support and a shuttle placer mounted thereon and normally at rest, said shuttle placer receiving an angular shuttle positioning movement by engagement with a slightly misplaced shuttle.

1,375,733. AUTO-TOP WINDOW-FRAME. JOSEPH R. SANFORD, Salisbury, Conn. Filed Apr. 1, 1920. Serial No. 370,556. 5 Claims. (Cl. 296—145.)



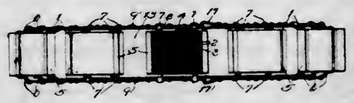
2. As an article of manufacture, a frame of the character described, comprising a rubber part, a glass window removably secured thereto, a second part, and a series of screws for clamping the two parts together with the fabric between them.

1,375,734. MACHINE FOR COOLING CHOCOLATE AND OTHER MATERIALS. EMILE SAVY, Paris, France. Filed Mar. 1, 1919. Serial No. 280,173. 8 Claims. (Cl. 34—12.)



1. In apparatus of the class described, a casing, a source of cooled air communicating with said casing intermediate the ends thereof, means for drawing cooled air into said casing through the source of supply therefor, two conveyers mounted to travel side by side in said casing, a series of upstanding drive shafts between the two conveyers, and fans on each shaft arranged above and below the conveyers and each serving to agitate the air about both conveyers.

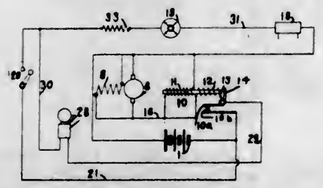
1,375,735. ANTISKID DEVICE. MICHAEL F. SCHOPF and LOUIS J. CHRISTIANSON, Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,571. 3 Claims. (Cl. 152—14.)



3. An anti-skid device comprising a plurality of anti-skid pads adapted to be disposed around a tire, each of

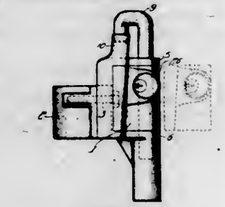
said pads having a base provided with sides, a plurality of wire strands secured to the sides of each pad, said strands being constructed to cross one another, and means for securing the pads to the tire.

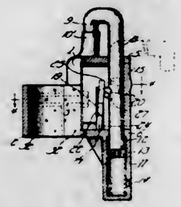
1,375,736. IGNITION SYSTEM. ELMER H. SCHWARZ, Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Nov. 22, 1917. Serial No. 203,314. 7 Claims. (Cl. 290—35.)



7. In an electrical system, the combination with a battery and a generator for charging the same; ignition devices having electrical connections with the battery; a switch for controlling the ignition circuit, automatic means for disconnecting the battery from the generator when the voltage of the generator is lower than the voltage of the battery; and a signaling device operable after the battery voltage exceeds the generator voltage, said device being operative only as long as the ignition switch remains closed.

1,375,737. AUTOMOBILE-LOCK. JOHN F. SCHYLANDER, Chicago, Ill., assignor of one-half to Frank A. Diener, Chicago, Ill. Filed Oct. 31, 1919. Serial No. 334,825. 11 Claims. (Cl. 70—129.)

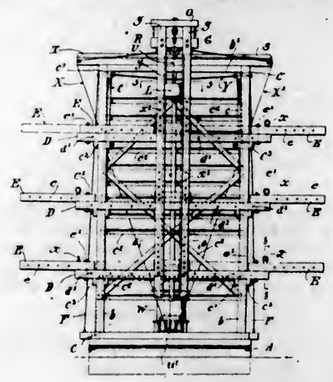




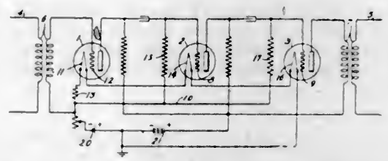
1. A steering wheel lock of the character described comprising a base plate having a surface adapted to conform to a steering column, a clamping member coöperating with said plate for securing said parts together around the steering column, a locking bar slidably supported by said base plate, a locking plate for maintaining said locking bar in a locked position, said locking plate being supported upon the base plate and maintained in position by said locking bar.

1,375,738. PILE-DRIVER. NATHANIEL G. SCOTT, New Orleans, La. Filed Oct. 7, 1920. Serial No. 415,420. 5 Claims. (Cl. 61—74.)

1. A pile driver comprising shears composed of a vertical front frame having side pieces, a cross piece secured to the upper ends of the side pieces, a moon beam to which the lower ends of the side pieces are secured, a vertical intervening series of horizontally arranged cross pieces arranged at intervals between the top and bottom of the shears, and which have extensions projecting beyond the side pieces, hammer leads, a trolley frame connected to the upper end of the leads and supported on the top of the shears, means for moving the trolley across the shears, and means for securing the leads to those portions of the intervening cross pieces between the sides of the shears and also to their extensions.

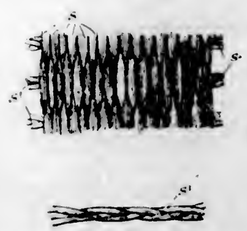


1,375,739. VACUUM-TUBE APPARATUS. EDWARD O. SCRIVEN, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 27, 1918, Serial No. 242,183. Renewed Sept. 14, 1920. Serial No. 410,082. 6 Claims. (Cl. 179—171.)



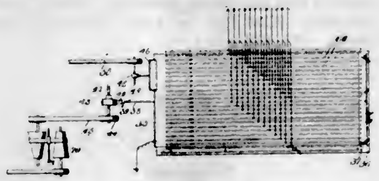
1. A vacuum tube apparatus comprising a plurality of tubes arranged in a series and each having a cathode and a grid, and means for applying to the grid of one of said tubes the potential across the cathode of another tube.

1,375,740. SEPARATOR FOR STORAGE BATTERIES. WALTER MARION STUDEBAKER and HERBERT JOHN EPPLE, Erie, Pa. Filed July 17, 1920. Serial No. 397,034. 2 Claims. (Cl. 204—29.)



1. A separator comprising strands of spun glass arranged in intersecting groups, the groups of strands extending in one direction being plaited, and the strands of the groups extending in the other direction being trained over and under the groups of strands which extend in the first direction.

1,375,741. PROCESS OF AND APPARATUS FOR PROGRESSIVE ELECTROSTATIC SEPARATION OF COMMINUTED MATERIAL. HENRY M. SUTTON, WALTER L. STEELE, and EDWIN G. STEELE, Dallas, Tex. Filed Aug. 19, 1914, Serial No. 857,528. Renewed Sept. 21, 1920. Serial No. 411,811. 32 Claims. (Cl. 83—49.)



1. The process of separating comminuted material according to the electrical susceptibilities of the particles thereof, consisting in subjecting successively the material to be separated to a series of electro-static charges moving independent of their seats of energy, and separately collecting the thus separated particles.

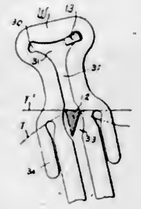
1,375,742. BOOK-FILLER. AUGUSTUS ROBERT TOWERS, Richmond, Va. Filed July 29, 1920. Serial No. 399,674. 5 Claims. (Cl. 281—19.)



1. A book comprising leaves, a flexible element secured to the leaves and extending beyond the same, and a back section embraced by the extended portions of said flexible element.

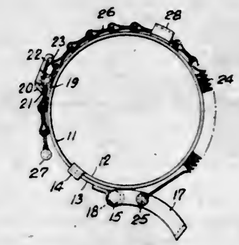
3. A book comprising leaves, a flexible element secured to the leaves and extending beyond opposite sides of the same, a back section embraced by the extended portions of said flexible element, and covers having attaching portions arranged on opposite sides of said back section and securely engaging the extended portions of said flexible element.

1,375,743. WARP STOP-MOTION. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1920. Serial No. 359,834. 9 Claims. (Cl. 139—92.)



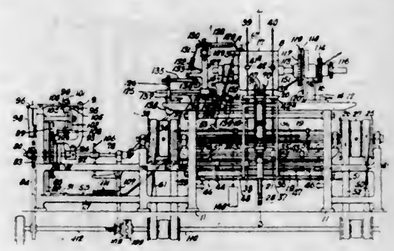
2. In a loom, a warp stop-motion comprising a plurality of drop wires supported for substantial angular movement, an indicating bar extending through said drop wires and having a free angular indicating movement when said drop wires are in mid-position but held from such movement when said drop wires are substantially displaced angularly in either direction, means to move said indicating bar, a connection effective to cause stoppage of the loom when displaced longitudinally in either direction, and means to effect such displacement when free angular indicating movement of the said bar is prevented.

1,375,744. PISTON-INSERTING DEVICE. ALBERT E. WATTS, Montreal, Quebec, Canada. Filed Feb. 6, 1920. Serial No. 356,726. 8 Claims. (Cl. 29—86.4.)



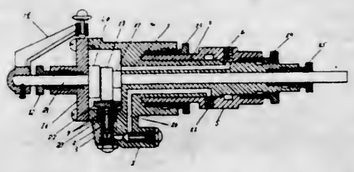
1. A band adapted to encircle a piston and the rings thereof, and contracting means encircling said band.

1,375,745. ARMATURE-WINDING MACHINE. LEONARD E. WOOD, Valleyfield, Quebec, Canada. Filed Sept. 30, 1918. Serial No. 256,279. 26 Claims. (Cl. 242—13.)



1. In an armature winding machine, an armature support, a wire guide, means for moving the guide to wind coils of wire in the slots of an armature, counting mechanism for automatically stopping the guide moving means on the completion of each coil and for automatically starting it to wind a new coil, and means for automatically moving the armature between the stopping and starting of the guide moving means to present fresh slots for winding and means for engaging and holding each successive turn of wire as it is laid in the armature slots.

1,375,746. ADVANCE AND RETARD FUEL-OIL PUMP. WILLARD JAY WOODCOCK, Brooklyn, N. Y. Filed Nov. 25, 1919. Serial No. 340,661. 3 Claims. (Cl. 123—139.)

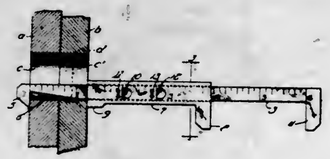


3. In an internal combustion engine, a fuel pump consisting of a cylinder, a plunger in said cylinder, means to actuate said plunger, and a support for said cylinder adapted to move about said actuating means, and concentric with said actuating means.

1,375,747. RIVET-GAGE. MARTIN ZIGRAY, Chicago, Ill. Filed Oct. 22, 1919. Serial No. 332,399. 11 Claims. (Cl. 33—143.)

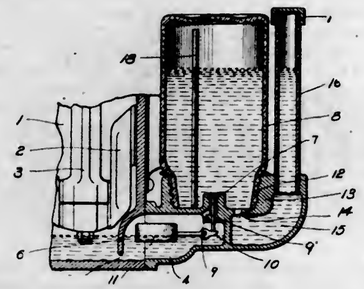
1. A rivet gage of the character described comprising a scale member having an extending arm at one end and

a hook shaped member at its other end, said scale member being provided with oppositely directed scales on the opposite sides thereof running from said arm to said hook



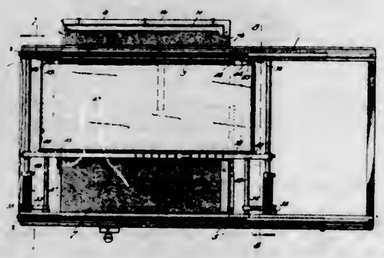
shaped member, and a slidable member freely movable on said scale member from one end to the other end thereof and adapted to coöperate with either of said scales for measuring purposes.

1,375,748. AUTOMATIC OIL-FEED. EVERETT B. CUSHMAN, Topeka, Kans., assignor to The Piersen Manufacturing Company, Topeka, Kans., a Corporation of Kansas. Filed May 21, 1919. Serial No. 298,633. 11 Claims. (Cl. 184—103.)



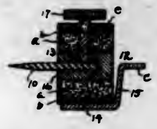
8. In a device of the class described, a float chamber adapted to discharge into the crank case of a motor, a recessed member above the float chamber and having an orifice communicating therewith, a removable, inverted glass jar received in the recessed member, a float, a float-actuated valve in the orifice for controlling the discharge of oil from the container into the float chamber, and a filling chamber in constant communication with the jar through an opening in the floor of the recessed member.

1,375,749. PLATEN EQUIPMENT FOR TYPEWRITING-MACHINES. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Original application filed Feb. 6, 1911, Serial No. 606,933. Divided and this application filed June 11, 1918. Serial No. 239,488. 15 Claims. (Cl. 197—126.)



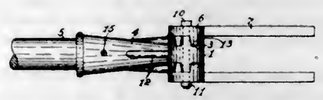
1. The combination with a flat platen adapted to have web sections disposed thereover, of means for effecting movement of the platen, and means for causing a separation of the web sections from each other and from the platen on the movement of said platen.

1,375,750. STYLUS-BAR ATTACHMENT FOR PHONOGRAPHS. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a Corporation. Filed July 14, 1920. Serial No. 396,263. 5 Claims. (Cl. 274—37.)



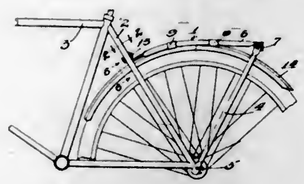
1. In a stylus bar attachment for phonographs, a metallic, cylindrical casing open at one side and provided opposite to its open side with an angular shank for engaging the stylus bar, a metallic core centrally of said casing, a stylus in line with the axis and carried by said core, a sleeve of vibration-absorbing material between the metallic core and casing, and a set-screw between the sides of the casing traversing the sleeve and metallic core for engaging the stylus, said angular shank having a terminal adapted to be disposed in line with the stylus and stylus bar.

1,375,751. ADJUSTABLE IMPLEMENT. ARTHUR W. GRANNIS, Waterloo, Iowa. Filed June 19, 1920. Serial No. 390,222. 3 Claims. (Cl. 254—25.)



1. An implement of the character described, comprising a lever provided with a cross-head having oppositely-directed clutch-faces, mating clutch-members engaged adjustably with the clutch-faces of the cross-head, and prying members integral with and extending from said clutch-members in parallel spaced relation.

1,375,752. BICYCLE LUGGAGE-CARRIER. WALTER R. GREEN, Chicago, Ill. Filed Apr. 17, 1919. Serial No. 290,753. 6 Claims. (Cl. 224—39.)



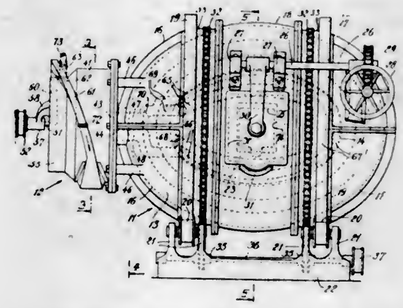
1. A cycle carrier comprising in combination a platform having its forward part curved to substantially the same extent as the mud guard, an angle member on the forward edge of the platform adapted to be secured to the rear fork, projections secured to said edge adapted to extend under the cross member of said fork to which the mud guard is connected, a cross piece adapted to rest against the front face of the rear fork, and means for clamping said angle member and said cross piece together to grip the rear fork therebetween, said means being adapted to extend through the fork immediately above the said cross member.

1,375,753. TIRE-CARRIER. WALTER R. GREEN, Chicago, Ill. Filed July 7, 1919. Serial No. 308,960. 12 Claims. (Cl. 224—29.)



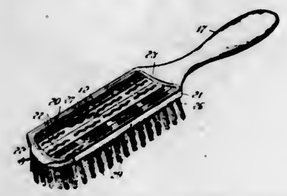
1. A tire carrier casing comprising complemental associated members to interfit with one another to form an annular tire casing and inner and outer spacing elements adapted to be attached therebetween effecting enlargement of the tire carrier.

1,375,754. METALLURGICAL FURNACE. JOHN WILLIAM GRISWOLD and HENRY O. LOEBELL, Toledo, Ohio. Filed July 24, 1918. Serial No. 246,455. 13 Claims. (Cl. 263—16.)



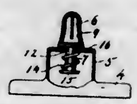
1. A metallurgical furnace having in combination a furnace body rotatably mounted for pouring, a closed melting chamber formed in said body, a series of combustion flues in said body, surrounding said melting chamber, and means for introducing and igniting gas and air only in the flues in the upper portion of said chamber, and withdrawing the products of combustion through a heat interchanger.

1,375,755. BRUSH AND METHOD OF MAKING THE SAME. ROLLAND T. R. HASTINGS, Highland Park, Ill., assignor to Sanitax Brush Company, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1920. Serial No. 395,518. 4 Claims. (Cl. 15—29.)



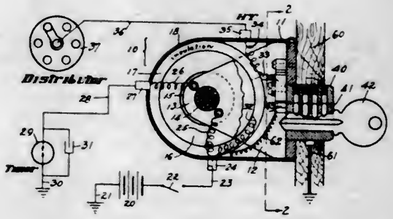
1. In a process for making brushes, the operations of transversely cutting a metal tube part way through at a point intermediate of its length, slitting the tube longitudinally from one end to a point near the center of said transverse cut, bending the portions of the tube on each side of said longitudinal slit away from each other, forming said portions and the intervening metal into a portion to provide a back for the bristle carrying frame, and shaping the metal of the uncut portion of the tube into a handle.

1,375,756. TURNBUTTON-FASTENER. GEORGE A. HOLMES, Newton Center, Mass., assignor to Fred Joy, Winchester, Mass. Filed Feb. 26, 1921. Serial No. 448,159. 2 Claims. (Cl. 24—221.)



1. In a fastener of the character set forth, a standing member composed of a base having a shank oval in sectional shape; combined with a button composed of a hollow shell of corresponding oval shape, and a pintle piece having a base flange of corresponding oval shape secured in said shell by engagement by the marginal part thereof, and a filler in said shell serving as a support for said pintle piece; and a spring interposed between the inner surface of the base shank and an enlargement on the pintle substantially as described.

1,375,757. LOCKING DEVICE FOR IGNITION SYSTEMS. JOHN H. HUNT, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Aug. 5, 1918. Serial No. 248,308. 5 Claims. (Cl. 123—146.5.)



1. In an ignition system, the combination with a distributer, a battery and a timer; of a unitary structure including a housing, an ignition coil adapted to be connected with the battery, timer and distributer, located within the housing, and a lock operated device located within the housing for short circuiting the distributer.

1,375,758. IMPERMEABLE RESERVATORY. GEORGE COLVIN KENNEDY, Waterloo, Iowa. Filed Aug. 22, 1919. Serial No. 319,188. 2 Claims. (Cl. 27—6.)



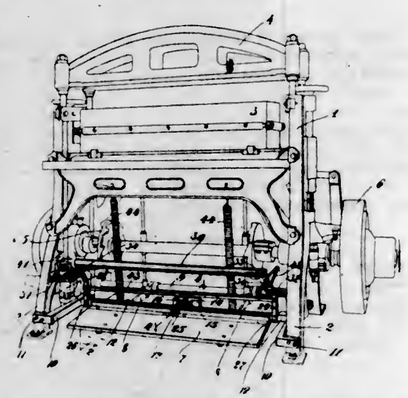
1. An impermeable hollow container, comprising hollow imperforate parts having outwardly sloping margins registering with each other terminally, a sectional detachable clamping device whose sections are longitudinally troughed with sloping inner walls to inclose said sloping margins in spaced relation, compressible impermeable sealing strips mounted in the interspace of said clamp-

ing device and said sloping margins, and means for detachably fastening the sections of said clamping device together to compress said strips upon said sloping margins.

1,375,759. MANUFACTURE OF SULFATE PULP. ELIS OLSSON, Westpoint, Va. Filed Apr. 2, 1919. Serial No. 286,938. 3 Claims. (Cl. 92—9.)

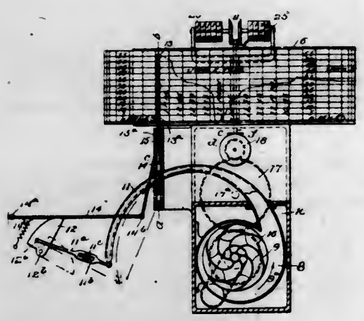
1. In the manufacture of sulfate pulp a cooking liquor including sodium hydrate and sodium sulfid, the sodium sulfid being the predominant solvent.

1,375,760. SAFETY DEVICE FOR POWER-PRESSES. ABRAHAM PIASER, Elmhurst, N. Y., assignor to Rosenwasser Bros. Inc., Astoria, Long Island, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,852. 8 Claims. (Cl. 74—81.)



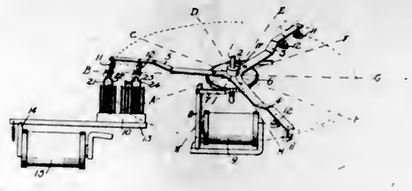
1. The combination with a power press, having a treadle whose depression determines an operation thereof, of means for normally locking said treadle against depression, and means adapted to be engaged by the leg of the operator for releasing said locking means.

1,375,761. SPEEDOMETER FOR AUTOMOBILES. FREDERICK H. RITTENOUR, Annapolis, Md. Filed June 6, 1918. Serial No. 238,504. 5 Claims. (Cl. 234—29.)



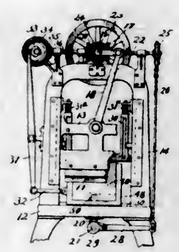
3. A speedometer for automobiles comprising a moving tape, a pencil and means for moving the pencil over the tape, in a direction transverse to the movement of the tape, said means comprising a curved flattened flexible tube, a pump for forcing a liquid into said tube and connections from the tube to the pencil, comprising a cam operated by the change of form of the tube caused by the pressure of liquid therein.

1,375,762. DISTRIBUTING-SWITCH. GEORGE THOMPSON, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 10, 1919. Serial No. 296,180. 8 Claims. (Cl. 179—27.5.)



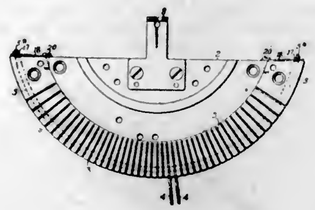
1. In an automatic switch, a plurality of circuit closers, a plurality of operating members in fixed relation to one another, a driving mechanism common to said members, and means to bring said members successively into operative relation with said circuit closers.

1,375,763. METHOD OF FORMING STORAGE-BATTERY SEPARATORS. THEODORE A. WILLARD, Cleveland, Ohio. Filed Feb. 26, 1915. Serial No. 10,720. 6 Claims. (Cl. 204—29.)



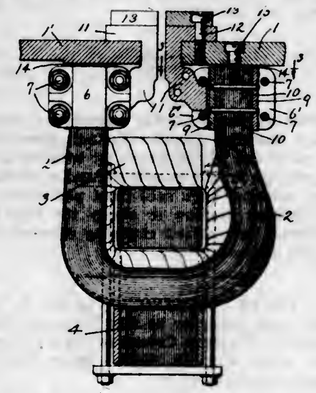
1. The method of forming porous storage battery separators which comprises slicing into sections a block containing porous material, with the sections provided in the slicing operations with uneven surfaces to form spacing projections.

1,375,764. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Nov. 13, 1919. Serial No. 337,633. 16 Claims. (Cl. 197—38.)



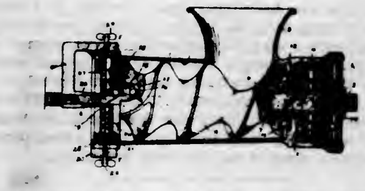
1. In a typewriting machine, the combination of a typebar support, type bars, a pivot wire for said type bars, a pivot wire tightener, and an elastic element coöperating with the tightener to limit the amount of pressure that can be conveyed by the tightener to the pivot wire.

1,375,765. TRANSFORMER-SECONDARY CONNECTION FOR ELECTRIC METAL-WORKING APPARATUS. HERBERT ADDISON WOOFTER, Swampscott, Mass., assignor to Thomson Electric Welding Company, Boston, Mass., a Corporation of Massachusetts. Filed July 30, 1920. Serial No. 400,277. 11 Claims. (Cl. 219—4.)



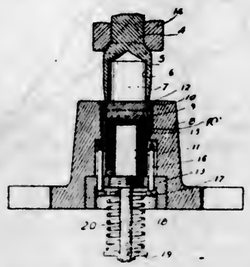
1. In an electric metal working apparatus, a transformer secondary of laminated strips bundled together at each end, a contact plate engaging the side edges of each of the strips and means electrically connecting said plate with a work-holder.

1,375,766. MEAT-GRINDER. WILLIAM JOHN ANDERSON, Duluth, Minn. Filed July 2, 1920. Serial No. 393,643. 5 Claims. (Cl. 17—20.)



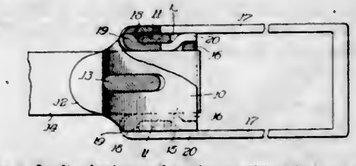
1. The combination with a meat chopping machine of the character described including a cylindrical body portion, a feeding worm therein and perforated grid, of a propeller-like knife adjacent the discharge end of the worm and a grid engaging knife intermediate the propeller-like knife and the grid.

1,375,767. METHOD OF FORMING WRENCH-SOCKETS. PAUL C. BALDUS, Milwaukee, Wis. Filed June 11, 1920. Serial No. 388,257. 3 Claims. (Cl. 76—114.)



1. The method of forming a socket wrench which consists in forming a blank with a tubular end from solid stock and pressing the tubular portion of this blank between two dies of polygonal formation so as to change the circular section at any cross section through the blank into a polygonal section, the walls of which have substantially the same thickness as the circular section of the blank.

1,375,768. DRAWBAR-YOKE. CARL E. BAUER, Hammond, Ind. Filed Oct. 2, 1920. Serial No. 414,296. 5 Claims. (Cl. 213—42.)



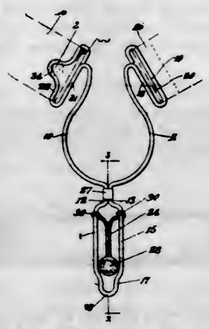
1. In a draft rigging yoke, the combination of a sleeve adapted to surround and be connected to a coupler butt, the sleeve being provided with apertures in opposite side walls; and a yoke the free ends of the arms of which are bent around the apertured sides of the sleeve, the extremities of the bent portions being projected into the apertures in the sleeve and into substantial contact with the straight portion of the arms.

1,375,769. WINDOW-FASTENER. JOHN K. BLEACKACRE, Bloomer, Wis. Filed May 10, 1920, Serial No. 380,354. Renewed Mar. 3, 1921. Serial No. 449,500. 4 Claims. (Cl. 292—230.)



1. A window fastener comprising a socket member having an outer wall provided with a key-hole slot with its enlargement at its upper end, a securing arm having a stem extending through the key-hole slot and an enlarged head carried by the stem and passing through the enlarged end portion of the slot to releasably and pivotally mount the arm.

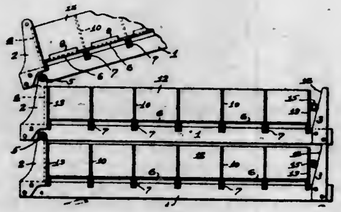
1,375,770. GARTER-CLASP. WILLIAM E. BOWEN, East Orange, N. J. Filed May 26, 1920. Serial No. 384,379. 8 Claims. (Cl. 24—246.)



1. In a resilient garter clasp, in combination, a wire forming an open resilient loop, an extended portion of the wire forming a means for the insertion of fabric, a member

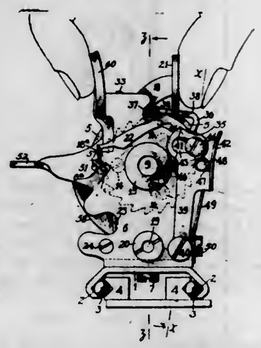
slidable over the extended portion, a button carried by the slidable member capable of insertion within the extended member forming a fabric retaining means therewith, each end of the wire forming a loop for the retention of the two ends of a web, the end loops being in angular position with respect to each other.

1,375,771. MOLD STRUCTURE. HAROLD J. BRADT, Pontiac, Mich. Filed July 6, 1920. Serial No. 394,078. 7 Claims. (Cl. 25—121.)



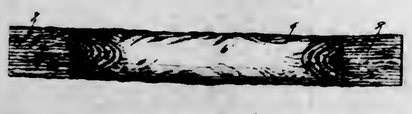
3. A mold structure comprising parallel superposed bars, posts carried by said bars and supporting adjacent superposed bars so that said bars may have ends thereof raised, and molds on said bars.

1,375,772. TYPEWRITING-MACHINE. HERBERT L. BRIDGWATER, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 8, 1919. Serial No. 329,291. 13 Claims. (Cl. 197—114.)



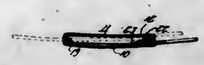
1. In a typewriting machine, the combination of a line space wheel, a line space lever the body portion of which bears against one side of an end plate of the platen frame, a guide finger on said lever which bears against the other side of said end plate, and a line space pawl carried by said lever.

1,375,773. RAILROAD-TIE. JOSEPH D. BRYANT, Appleby, Tex. Filed Sept. 25, 1920. Serial No. 412,708. 1 Claim. (Cl. 238—30.)



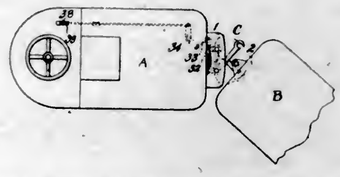
A railroad tie consisting of a log of wood having a natural top surface and a flat bottom, the end portions of the top of the tie being reduced, each inner end wall formed by said reduced end portions being canted toward said reduced portions, whereby rails supported by said reduced portions are properly gaged and prevented from movement toward the center of the tie.

1,375,774. BELT-BUCKLE. HERBERT J. BUCHSBAUM, Chicago, Ill. Filed May 8, 1920. Serial No. 379,822. 10 Claims. (Cl. 24—191.)



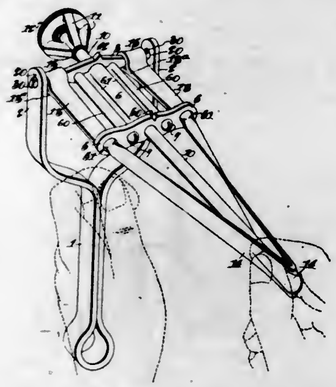
1. A device of the character described comprising a front plate, a clamping element swingingly associated with said front plate and having means for securing a belt extremity in position in said front plate, and a second clamping element mounted upon said front plate and adapted when in clamping position to clamp the free belt extremity between said second clamping element and said first clamping element.

1,375,775. TRUCK-COUPLING. WILLIAM L. BURNER, Columbus, Ohio, assignor to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 23, 1919. Serial No. 319,411. 11 Claims. (Cl. 213—67.)



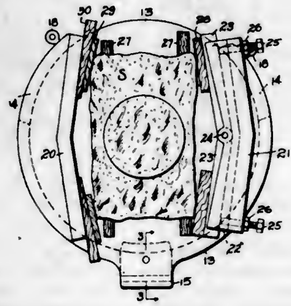
11. The herein described coupler element, in a mechanism for joining vehicles together, having parts adapted to engage with a vertically extending holder secured to a vehicle, and comprising a housing with a lateral opening and two horizontally swinging bars each pivoted to the housing at one side of the center of the vehicle and adapted to swing backward across the center into the housing and both adapted to have their outer ends swing forward to the vertical lines of the aforesaid holder lug.

1,375,776. TOY CATAPULT. HENRY D. BUYS, Emmett, Idaho. Filed Jan. 25, 1921. Serial No. 439,787. 3 Claims. (Cl. 124—2.)



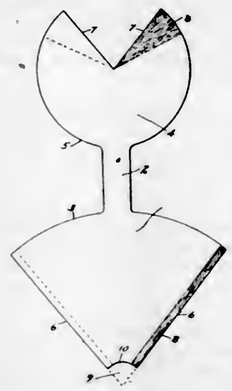
1. A toy of the character described comprising a projectile guiding and supporting element, a handle frame, means for rockably supporting the projectile guiding element on the handle frame, and an elastic sling secured at its ends to the guiding element whereby as a projectile is placed in the guiding element and it and the sling are pulled back, the sling is under tension and means coöperative with the guiding element to which the opposite ends of the sling are connected for holding portions of the said ends of the sling in position to pull back in parallelism with one another.

1,375,777. CHUCK. ELROY A. CHASE, Northfield, Vt. Filed May 26, 1920. Serial No. 384,248. 6 Claims. (Cl. 125—35.)



1. A chuck for a machine having a face plate, comprising a body, means to secure the work thereto, a pair of rigid lugs thereon fitting the edge of said face plate, and a clamping device oppositely disposed relatively to said lugs and effective to engage the edge of said face plate to hold said chuck in position.

1,375,778. SANITARY ICE-CREAM-CONE PROTECTOR. EARL C. CLEARWATER, Los Angeles, Calif. Filed Apr. 20, 1920. Serial No. 375,365. 1 Claim. (Cl. 229—1.5.)

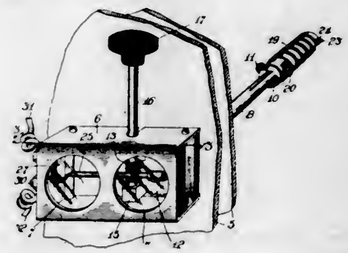


A blank comprising sectors of disks and a strip connecting the same at their curved edges, said sectors being curved to bring together their radial edges for forming cones joined by a connecting strip.

1,375,779. FIRE-EXTINGUISHING COMPOSITION. PHILLIP A. CROSBY, Alton, and RALPH R. MATTHEWS, Wood River, Ill., and RALPH B. HIGH, Oakland, Calif., assignors to Roxana Petroleum Company of Oklahoma, St. Louis, Mo., a Corporation of Oklahoma. Filed Aug. 8, 1919. Serial No. 316,069. 5 Claims. (Cl. 23—5.)

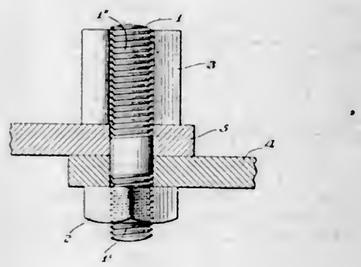
2. A composition for extinguishing fire, composed of sodium bicarbonate, a phosphoprotein and water.

1,375,780. THERMOSENSITIVE CIRCUIT-CONTROLLER. ACHILLES DE KHOTINSKY, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 6, 1917. Serial No. 205,790. 4 Claims. (Cl. 200—139.)



1. In a device of the character described, a thermal circuit closer comprising a fixed contact, a movable contact adapted to open or close the circuit with the variation of the temperature, an arm carrying said movable contact, a bi-metallic helical coil, a rod secured at one end to said arm and extending through said coil and secured at its other end to the adjacent end of the coil, a collar arranged on said rod and secured to the other end of the coil, and means for adjusting said collar relative to said rod to regulate the tension on said coil.

1,375,781. NUT. GEORGE R. DE LONG, Harriman, Pa. Filed June 8, 1920. Serial No. 387,484. 2 Claims. (Cl. 85—32.)

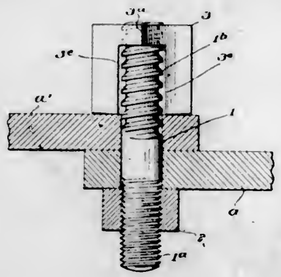


2. The combination with a headless bolt having two threads and nuts adapted for engaging the respective threads, one of said nuts being complete and the other provided with an opening extending laterally therethrough and having sides movable on opposite sides of said bolt to engage and disengage the respective threads, said opening having a depth transverse to said bolt greater than the diameter of said bolt.

1,375,782. NUT. GEORGE R. DE LONG, Harriman, Pa. Filed June 26, 1920. Serial No. 391,922. 6 Claims. (Cl. 85—32.)

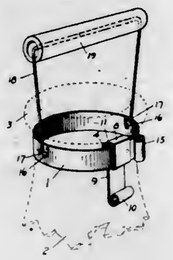
1. The combination with a bolt having a thread, of a nut provided with a thread having one or more complete convolutions and a recess provided with thread sections.

said recess having sides adapted to be passed on opposite sides of said bolt to engage a thread thereof first with



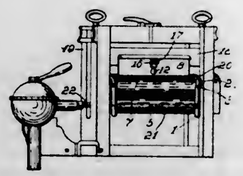
said thread sections and then with a complete convolution aforesaid.

1,375,783. MILK-BOTTLE CARRIER. ALFRED V. DES MOINEAUX, Denver, Colo. Filed May 28, 1920. Serial No. 384,800. 4 Claims. (Cl. 215—100.)



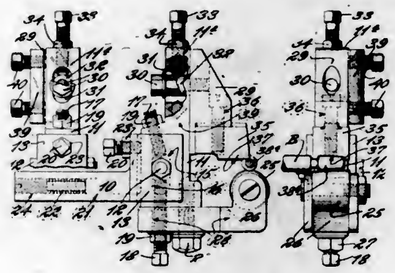
2. A bottle carrier comprising a split collar, the ends thereof being adapted to be moved into overlapped relation, a guide carried by one end of the collar, a latch slidable in the guide, means carried by the latch for engaging the other end of the collar to hold the same in locked engagement with the first named end.

1,375,784. WRINGER ATTACHMENT. LOUIS F. DOELLINGER, Waterloo, Iowa. Filed Dec. 2, 1920. Serial No. 427,694. 3 Claims. (Cl. 68—32.)



1. A device of the character described, comprising pivotally connected coacting hangers supported removably and vertically movable on a relatively fixed element of a wringer above the upper roll of a pair of rolls, and having deflector-members respectively extended along the top of the upper roll and along opposite sides of the lower roll.

1,375,785. TOOL-HOLDER. IRVIN DROWNS, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Oct. 27, 1919. Serial No. 333,713. 5 Claims. (Cl. 82—35.)



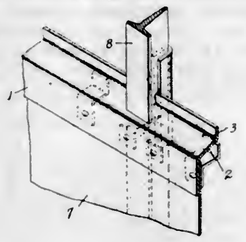
1. A tool-holder for screw machines and the like comprising a supporting arm and a body member adjustably mounted therein, a roller support adjustably mounted on said body member, a tool block mounted on an adjustable pivot in said body member and adapted to hold a tool detachably secured thereto, said tool block having a flange extending around one side of said body member, and adjusting screws arranged on opposite sides of said adjustable pivot, said adjusting screws being threaded into the flange of said tool block and being adapted to bear against the adjacent face of said body member whereby adjustment of one or the other of said screws will cause the tool block to swing on its pivot and change the angle between said tool and said work support.

1,375,786. STEEL CAR CONSTRUCTION. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 13, 1919. Serial No. 282,338. 21 Claims. (Cl. 105—397.)



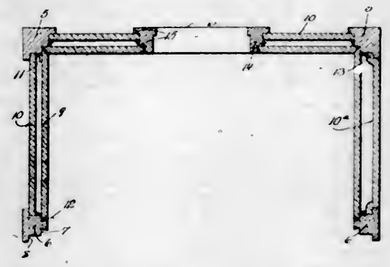
9. In a railway car, the combination, with a roof adapted as an independent unit to be detachably secured to the completed car body and a post having an inwardly inclined end detachably secured to and supporting said roof.

1,375,787. STEEL CAR CONSTRUCTION. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed Mar. 13, 1919, Serial No. 282,338. Divided and this application filed Apr. 9, 1919. Serial No. 288,817. 14 Claims. (Cl. 105—401.)



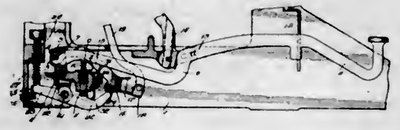
12. A belt rail adapted to be secured to the girder plate and side posts of a car, and having an integral portion intersecting said posts and serving as a sill and weather strip for the lower sash of said car.

1,375,788. CEMENT BUILDING. NICHOLAS FRISCHMANN, St. Francis, Wis. Filed Dec. 23, 1919. Serial No. 346,858. 3 Claims. (Cl. 72—1.)



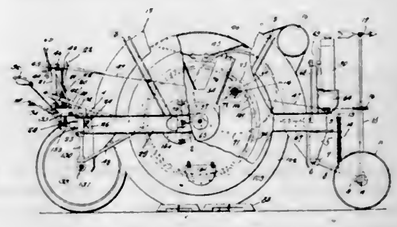
1. In a concrete building construction, a pair of wall columns having inwardly facing stepped shoulders in their opposite sides, bonding members connecting the columns and having similar shoulders, and concrete slabs having their edge portions secured against corresponding inner faces of said shoulders, whereby said slabs are held by said shoulders in spaced relation against outward movement, and key bodies of cement disposed against the inner edge face of the slabs to hold the same against inward movement.

1,375,789. KEY-LEVER TENSION DEVICE. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed June 3, 1918. Serial No. 237,934. 9 Claims. (Cl. 197—33.)



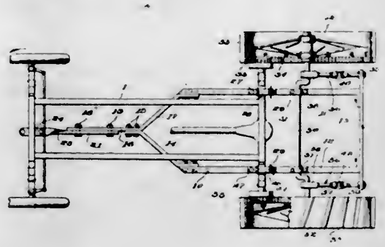
1. In a typewriter, a plurality of pivoted key levers, means tending normally to hold them resiliently in place, a universal bar directly engaged by the key lever after a predetermined movement thereof, resilient means tending to oppose the movement of the universal bar after a predetermined movement thereof and means for regulating the tension of said resilient means to control the key lever tension of said typewriter.

1,375,790. TRACTOR. JOSEPH D. INGRAM, Amarillo, Tex. Filed June 9, 1919. Serial No. 302,670. 6 Claims. (Cl. 180—10.)



1. In a machine of the class described, the combination of a frame, a pair of sleeved brackets secured one at each side of said frame, a housing mounted for rotation on the sleeves of said bracket and provided with a double internal gear, a hanger bracket mounted on said sleeves and adapted for adjustment around an axis, a motor seated in said bracket, a shaft mounted for rotation in said sleeves and adapted to be driven by said motor, a pinion mounted on said shaft for rotation therewith, gearing between said pinion and internal gear for transmitting rotary motion to said housing through either internal gear, and means for shifting said intermediate gearing from engagement with one internal gear into engagement with the other.

1,375,791. TRACTOR ATTACHMENT FOR AUTOMOBILES. LUCULLUS G. LINCECUM, Chicago, Ill., assignor of one-half to Birdye Binkowitz, Kansas City, Mo. Filed Feb. 5, 1919. Serial No. 275,148. 3 Claims. (Cl. 180—16.)



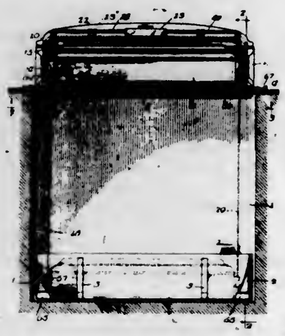
1. In a tractor attachment for automobiles, a frame adapted to lie beneath the chassis of an automobile and having bearings in which to receive the rear axle of the automobile, ground wheels at the rear of the frame, means on the rear axle coöperating with the wheels to drive the same, a shaft journaled in the rear portion of the frame and having crank portions to receive the wheels, said crank portions permitting the wheels to be swung upwardly and forwardly from the position they occupy when the gear elements are enmeshed, said shaft being positioned forwardly of the rear end of the frame, and adjusting means positioned directly between the crank portions and the rear end of the frame.

1,375,792. ROAD-PLATE FOR PROTECTING ROADS. JOHN LOURIM, Bay City, Mich. Filed Sept. 11, 1920. Serial No. 409,735. 13 Claims. (Cl. 238—4.)



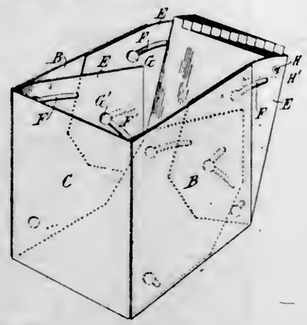
1. A roadway comprising a concrete bed and metallic strips spaced apart substantially the standard wagon width, mounted in said concrete.

1,375,793. FUNERAL AND BURIAL APPARATUS. ROY F. MCCAMPBELL, GEORGE H. SCOTT, and GEORGE Q. SMITH, Chicago, Ill. Filed Sept. 11, 1916. Serial No. 119,416. 12 Claims. (Cl. 27—32.)



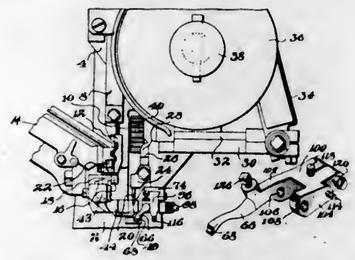
1. In an apparatus of the character described, the combination of a shell open at the bottom and having a hollow cover, a casket supported within said shell, flexible lowering means connected to the ends of the casket, and means supported within said cover for controlling the lowering means.

1,375,794. EXPANSIBLE LEDGER-FILE. BARTHOLOMEW E. MCSHEEHY, Huntingdon, Pa., assignor to J. C. Blair Company, Huntingdon, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1918. Serial No. 263,890. 2 Claims. (Cl. 129—43.)



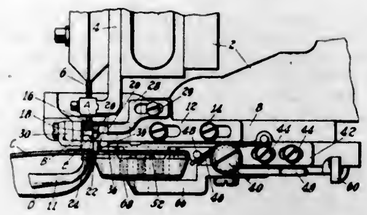
2. A file comprising a bottom portion, upright portions hinged at opposite sides of said bottom portion, so as to swing outwardly from a vertical to an inclined position, means to limit said movement, and means to lock said uprights in their vertical positions with the top of the file open to expose its contents.

1,375,795. CHANNEL-OPENING DEVICE FOR FASTENING-INSERTING MACHINES. FRED L. MACKENZIE, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,358. 25 Claims. (Cl. 1—18.)



5. In a machine of the class described, means for operating on the bottom of a channel formed in the work, work-positioning means engaging the edge of the work, a movable channel opening finger having its operative end normally spaced from the work engaging surface a distance greater than the normal distance between the edge of the work and the inner edge of the channel formed therein so that the presentation of the work to the work-positioning means with the finger in the channel of the work effects movement of said finger, and means for urging said finger yieldingly in a direction opposite to that in which it is moved by the work to permit the finger to be moved in one direction to maintain contact of the work with the work positioning means when a portion of the work, at which the distance between the edge of the work and the inner edge of the channel is less than the normal distance, is being operated upon by said operating means, and to cause the finger to be moved in an opposite direction when a portion of the work, at which the distance between the edge of the work and the inner edge of the channel is greater than the normal distance, is in operative relation to said operating means.

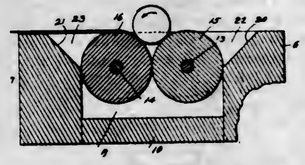
1,375,796. WORK-GUIDE. FRED L. MACKENZIE, Beverly, and GEORGE GODDU, Winchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 3, 1918. Serial No. 243,139. 24 Claims. (Cl. 12—67.)



1. In a machine of the class described, means for operating on a welt and a filling strip having a bead projecting from its side, and means for guiding the welt and filling strip and presenting them to the operating means in superposed relation constructed to control by said bead the relation of the filling strip to the welt and operating means.

7. In a machine of the class described, means for attaching a plurality of strips of shoe stock of varying widths to a shoe, and means for guiding said strips in contacting relation and presenting them to said attaching means in superposed relation comprising mechanism having surfaces to guide one of said strips and a member having a surface arranged to support said strip in operative relation to said guiding surfaces, said member being arranged also to guide another of said strips by engagement with its edge.

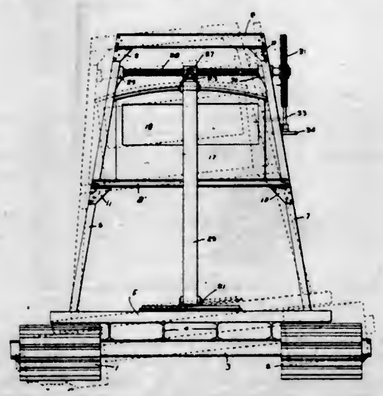
1,375,797. WRAPPING DEVICE. KAN MIYASAKI, Los Angeles, Calif. Filed Nov. 18, 1919. Serial No. 338,958. 2 Claims. (Cl. 93—2.)



1. A device of the class described, comprising a frame, a pair of rollers mounted in parallel relation and adjacent each other in said frame, said frame being provided on two of its upper and oppositely disposed edges with inclined surfaces adapted to form with the peripheral surfaces of said roller a crotch for the reception of a plurality of coins, and index marks arranged on said frame adjacent said inclined surfaces, whereby the number of coins assembled in said crotch may be determined.

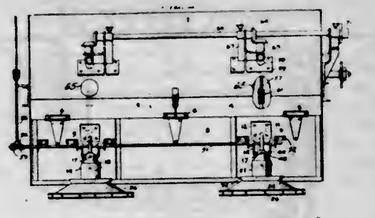
2. A device of the class described, comprising a frame, a roller journaled in said frame, and a side member arranged adjacent and parallel with said roller, provided with an inclined edge adapted to form a crotch therebetween for the reception of coins.

1,375,798. EXCAVATING-MACHINE. SAWYER Y. MONCKTON, San Francisco, Calif. Filed July 7, 1919. Serial No. 309,447. 5 Claims. (Cl. 212—65.)



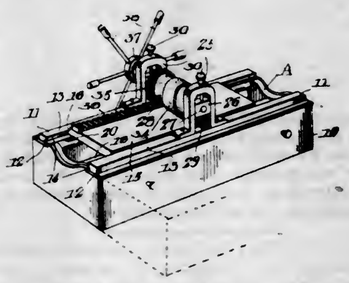
1. In an excavating machine, a base structure provided with movable members on each side on which the base travels, a turntable substantially central between the movable members and a boom hinged on said turntable, a cable attached to the upper end of said boom, a block through which said cable is reeved, a pair of support struts mounted on the base and respectively over each movable member, a cross piece between the upper ends of said struts on which said block is adapted to travel between the struts and means for shifting the block on the cross piece to vary the center of support of the boom with respect to the movable members.

1,375,799. SAND OR GRAIN DISTRIBUTER. PETER J. OWEN, San Francisco, Calif. Filed Mar. 31, 1919. Serial No. 286,311. 1 Claim. (Cl. 275—8.)



Apparatus adapted for attachment to the refuse container of a street sweeping machine so as to convert the latter into a sand or grain distributer, which apparatus embodies in its construction a door adapted to be attached to the refuse container of a street sweeping machine in substitution for the door such as is ordinarily used for closing the discharge opening of the container, an upright rotary shaft supported by and extending above and below said door, another rotary shaft adapted to be attached to the street sweeping machine so as to extend into the said container and lie in line with and above the first named shaft, means for rotating the last-named shaft adapted for operative association with the street sweeping machine, a coupling carried by the one of the shafts and in which the other shaft is removably received, a distributer supported and operated by the first named shaft and disposed below the door, and a spout extending through the door and arranged to discharge into the distributer.

1,375,800. PORTABLE CARD PLATE-PRINTING MACHINE. HERBERT GEORGE POPHAM, Toronto, Ontario, Canada. Filed Sept. 7, 1920. Serial No. 408,596. 4 Claims. (Cl. 101—158.)

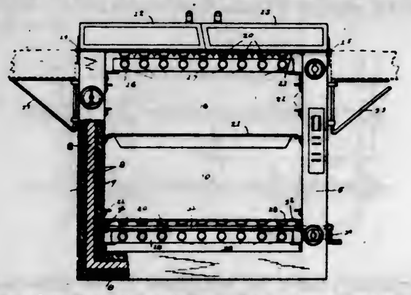


1. A portable copper card plate printing machine comprising a carriage, a roller rotatably mounted above the carriage and adjustable thereto, said roller having a flattened face, handles for rotating the roller in one direction, one of the handles being loaded and arranged at right angles to the flattened face of the roller, means whereby the rotation of the roller transmits a uniform movement to the carriage, and means for automatically returning the carriage to a normal position when the last said means is inoperative.

1,375,801. ELECTRIC COOKING-STOVE. ALLEN R. ROSS, Seattle, Wash. Filed July 1, 1919. Serial No. 307,976. 5 Claims. (Cl. 219—35.)

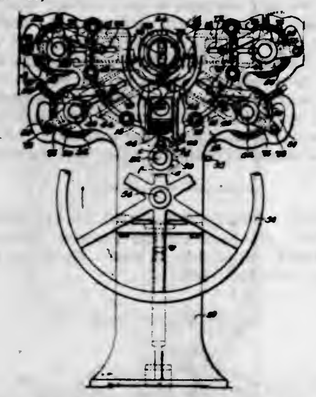
1. An electric cooking stove for domestic purposes, embodying an oven provided with heat-insulated side and bottom walls and provided with a cooking vessel supporting top formed of a sheet of metal electrically insulated, electric heating coils located immediately below said sheet of metal, electric heating coils located in the bottom

portion of said oven, and removable heat-insulating members adapted to rest upon said top sheet of metal and



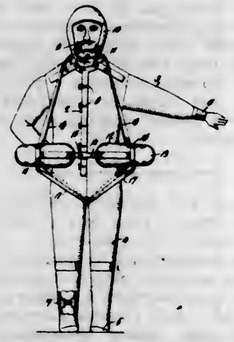
disposed to limit the radiation of heat from said sheet of metal.

1,375,802. FORMING APPARATUS. THOMAS H. SHELY, Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 17, 1918. Serial No. 258,597. 35 Claims. (Cl. 69—8.)



2. In an apparatus for forming leggings and the like, an inner mold about the circumference of which the material to be molded is placed, and an outer mold for contact with the material about more than half the circumference of the inner mold, and including sections movable independently in the molding operation.

1,375,803. LIFE-SAVING SUIT. KYRIAKOS SOULIOTIS, Washington, D. C., assignor of one-half to Soterios Nicholson, Washington, D. C. Filed Aug. 23, 1920. Serial No. 405,266. 3 Claims. (Cl. 9—20.)

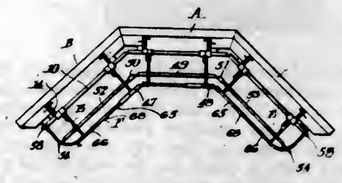


1. A preserver of the class described comprising a pair of buoyant sections having enlargements thereon at regular intervals, said sections being in flexible engagement with each other, and means for attaching said sections to the body of a wearer in the manner and for the purpose specified.

1,375,804. ALLOY. COLUMBUS D. STOVALL, Lexington, Ky. Original application filed June 7, 1920, Serial No. 387,218. Divided and this application filed July 14, 1920. Serial No. 396,081. 1 Claim. (Cl. 75—1.)

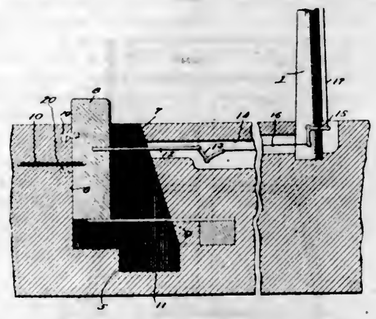
An alloy comprising in substantially the proportions given gold 72 grains, nickel 13½ grains, and copper 16½ grains.

1,375,805. SHADE AND CURTAIN HOLDER. HENRY UMPHREY, Carleton Place, Ontario, Canada, assignor of one-third to Elmer Donald Benjamin Robertson and one-third to Harry David Umphrey, Carleton Place, Ontario, Canada. Filed Oct. 14, 1920. Serial No. 416,912. 5 Claims. (Cl. 156—24.)



2. A curtain rod having an inwardly turned upper and lower flange, a supporting member having an upturned projection adapted to extend beneath the upper flange of the rod, and a lower turned projection adapted to bear against and support the outer side of the lower flange on the rod.

1,375,806. SIGNALING DEVICE. IRA BAILEY WALKER, Etna Mills, Calif. Filed Mar. 31, 1920, Serial No. 370,275. Renewed Mar. 12, 1921. Serial No. 451,842. 7 Claims. (Cl. 116—67.)

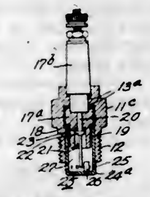


1. In combination with a semaphore arm and means adapted to be controlled by a moving car for lifting said arm to danger position, means for holding said arm in danger position independent of the vehicle controlled operating means, and time controlled means for releasing said holding means after a predetermined length of time, and an audible signal operated by the time controlled means.

1,375,807. SPARK-PLUG. ALBERT E. WATTS, Dorval, Quebec, Canada. Filed Dec. 6, 1919. Serial No. 343,029. 2 Claims. (Cl. 123—169.)

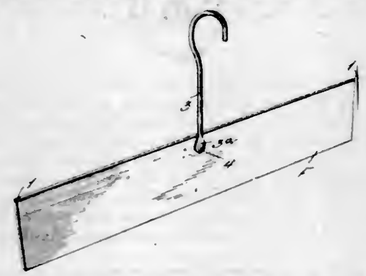
1. A spark plug comprising a hollow body having the bore thereof restricted adjacent to the upper end of the body to provide an inwardly extending flange, an outer insulator having its lower end thereof engaged against the upper face of said flange and reduced to extend past

the flange and to provide a shoulder encircling the reduced portion and supported on the flange, a second insulator contained within said body having one end enlarged and abutting the opposite face of the flange and recessed to snugly receive the reduced portion of the outer insulator, said enlarged end forming a shoulder facing the lower end of the bore, an electrode passing through said insulators and provided with means for clamping the



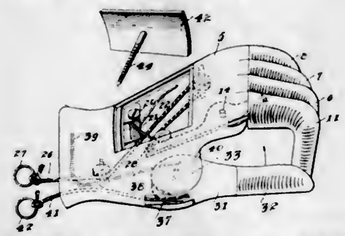
same against the opposite faces of the flange, a removable apertured cap closing the lower end of the body and extending into the bore of the body to bear against the shoulder of the inner insulator to hold the same against escape through the bottom of the body, said cap forming in conjunction with the lower end of said inner insulator a primary explosion chamber and sparking points carried by the insulator and cap approaching one another within said chamber.

1,375,808. SKIRT-HANGER. DESFORD WITBECK, St. Louis, Mo., assignor to P. C. Murphy Trunk Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 26, 1920. Serial No. 354,104. 3 Claims. (Cl. 211—13.)



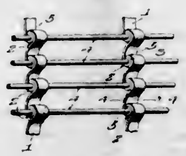
3. A skirt hanger, comprising a waist band engaging member formed from a flat strip of thin material of substantially oblong shape whose upper edge is longer than its lower edge, and a suspending means connected to said member.

1,375,809. ARTIFICIAL HAND. ROBERT FRANCIS ARMSTRONG, La Cygne, Kans. Filed Apr. 13, 1920. Serial No. 373,518. 8 Claims. (Cl. 3—12.)



1. An artificial hand comprising a hollow hand member, a middle finger member rigid with said hand member, an index finger pivotally mounted on said hand member to swing toward and away from said middle finger member on an axis extending substantially perpendicularly through said hand member from the palm to the back thereof, said index finger member having an extension projecting into the interior of said hand, a bracket arranged in the interior of said hand, a coil spring mounted upon said bracket having one of its ends extended and bearing against the interior wall of said hand member and its other end extended to form a lateral arm having its outer end constituting a bearing, a roller journaled upon said bearing and engaging said index finger member extension whereby the movement of said index finger member away from said middle finger member is resisted by said coil spring, an operating cord connected to the extreme outer end of said extension beyond the outermost point of contact of said roller whereby said operating cord has a greater leverage with respect to said index finger member than said spring, and guide pulleys for said cord member including a pulley journaled forwardly of said point of connection, all as and for the purposes set forth.

1,375,810. WIRE FABRIC. WILLIAM E. BAKER, Waco, Tex., assignor to Wonder Trap Co., Inc., Waco, Tex. Filed May 24, 1920. Serial No. 383,695. 3 Claims. (Cl. 245—2.)

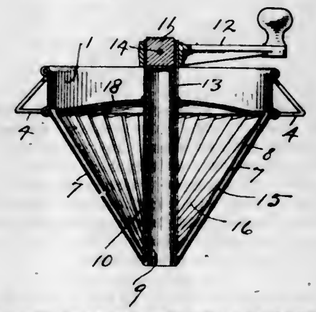


1. In a wire fabric, transversely corrugated metal strips, and wire rods disposed in the concavities on one side of the strips, and the corrugations being flattened to completely encircle and tightly grip the rods, said strips and rods being formed with bowed parts extending transversely of the strips to hold the rods against movement transversely of the strips.

1,375,811. FUEL AND METHOD OF PRODUCING SAME. LINDON WALLACE BATES, Mount Lebanon, N. Y. Original application filed Aug. 5, 1919, Serial No. 315,497. Divided and this application filed Jan. 22, 1920. Serial No. 353,324. 3 Claims. (Cl. 44—8.)

1. That method of stabilizing the asphaltum and free carbon particles in liquid hydrocarbon containing the same, which consists in blending therewith coal distillate or equivalent peptizing substance and blending the components and simultaneously peptizing the particles with heat treatment at a temperature range between normal temperature and approximately 95° C.

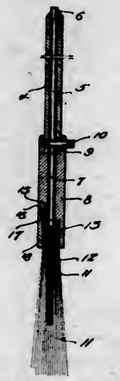
1,375,812. COLANDER. ALBERT G. BERG, Indianapolis, Ind. Filed Feb. 16, 1921. Serial No. 445,495. 8 Claims. (Cl. 146—9.)



4. In a culinary apparatus of the character specified, an inverted truncated conical member having inwardly projecting cutters and a central column, a movable downwardly tapering member having corrugations, said second member having a central column assembled on the first column, said second member adapted to approach the first member as the work progresses to force out the prod-

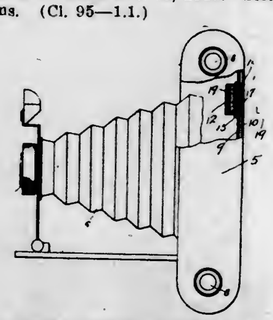
uct, and means at the top of the column of the first member to limit the approach of the two members to avoid clogging after most of the product has passed.

1,375,813. BROOM. ADOLF BERGER, Philadelphia, Pa. Filed May 10, 1920. Serial No. 380,187. 1 Claim. (Cl. 15—47.)



A broom of the character described including a head having a cavity and a passage providing a reservoir communicating with said cavity; and a flexible sweeping portion made up of straws in brush form having a flexible core member embedded therein, the upper part of said flexible portion including adhesive material for joining said straws together and to the outer portion of said core and being fitted within said cavity, said core being in communication with said reservoir whereby liquid from said reservoir will be absorbed by said core member; substantially as described.

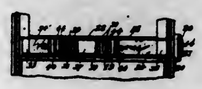
1,375,814. METHOD OF MAKING MARKINGS ON SENSITIZED MATERIAL. JOHN P. BETHKE, Milwaukee, Wis., assignor of one-half to Louis Schlesinger, Milwaukee, Wis. Filed Dec. 11, 1916. Serial No. 136,151. 7 Claims. (Cl. 95—1.1.)



1. The method of placing designating markings on a sensitized element while in a camera, by means of a phosphorescent medium within the camera, and a translucent element having a writing surface bearing light obstructing characters thereon, which consists in interposing the writing element with the characters thereon between the sensitized element and the phosphorescent medium and exposing said sensitized element to the light rays emanating from said phosphorescent medium.

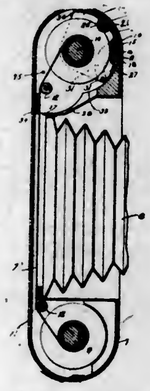
1,375,815. AUTOGRAPHIC CAMERA. JOHN P. BETHKE, Milwaukee, Wis., assignor of one-half to Louis Schlesinger, Milwaukee, Wis. Filed Jan. 9, 1918. Serial No. 211,079. 20 Claims. (Cl. 95—1.1.)

1. In an autographic camera, the combination, with a camera having an opening in one of its walls, of a data receiving member movable in said opening into and out of data imparting position adjacent the sensitized element within the camera, means for furnishing light from a luminous material, for printing the data on said member upon said sensitized element, and shutter mechanism pro-



vided with a multiplicity of exposure openings for simultaneously exposing all portions of the sensitized material adjacent said data receiving member to the light from said light furnishing means.

1,375,816. AUTOGRAPHIC CAMERA. JOHN P. BETHKE, Milwaukee, Wis. Filed July 20, 1920. Serial No. 399,849. 20 Claims. (Cl. 95—1.1.)



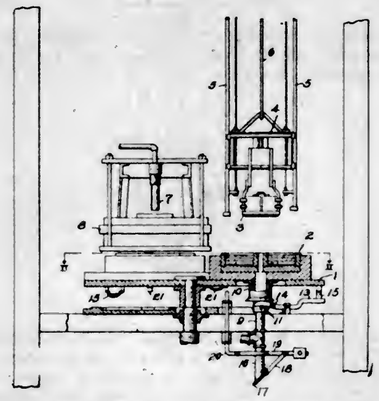
1. The combination, with a camera having an opening in one of its walls, of a data receiving member positionable at the opening for receiving data and movable to data imparting position adjacent the sensitized element in the camera, a septum movably mounted adjacent said opening for excluding light from the interior of the camera at all times, means for causing the data on said member to be printed upon said sensitized element, and mechanism for moving said member into and out of data imparting position.

1,375,817. WELL-DRILLING TOOL. WILLIAM G. BLODGETT, Los Angeles, Calif. Filed July 29, 1920. Serial No. 399,772. 7 Claims. (Cl. 255—77.)



1. A drilling tool comprising a bit rod having a drilling bit, an expansible reamer received over said bit rod, and means for expanding said reamer by longitudinal movement of the same relative to said bit rod.

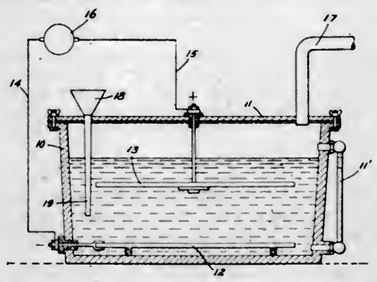
1,375,818. GLASS-DRAWING APPARATUS. JOHN J. BLOXSOM and ELMER E. MYERS, Brookville, Pa. Filed Sept. 2, 1919. Serial No. 321,103. 4 Claims. (Cl. 49—17.1.)



1. In apparatus for drawing glass cylinders, the combination of a turn table provided with a molten glass container, an air conduit having an open end below said table and extending through said container, an air supply pipe having an open end below the table, a sleeve at the end of said pipe longitudinally movable thereof to register with the end of said conduit, a pivoted lever engaging said sleeve, and a spring secured to said table and adapted upon the rotation thereof to engage said lever to move said sleeve into engagement with the open end of said conduit.

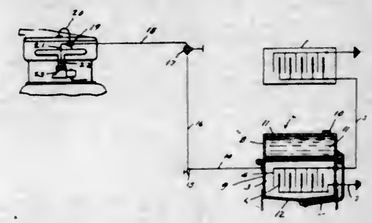
3. In apparatus for drawing glass cylinders, the combination of a turn table provided with a molten glass container, an air conduit extending through said table and container, a vertically disposed air supply pipe below said table provided with a bottom discharge opening, the top of said pipe being adapted to register with the bottom of said conduit when the glass container is in drawing position, a closure for said discharge opening, and means coördinated with the movement of said table for opening said closure to permit the discharge of broken glass from the air supply pipe.

1,375,819. PROCESS AND APPARATUS FOR THE ELECTROLYTIC GENERATION OF ARSIN, PHOSPHIN AND STIBIN. HENRY BLUMENBERG, Jr., Oro Grande, Calif. Filed June 11, 1919. Serial No. 303,463. 4 Claims. (Cl. 204—9.)



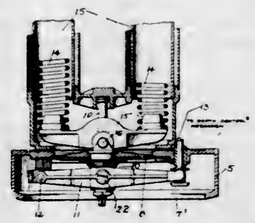
8. A process of making a mixture of oxygen and a gas consisting of hydrogen and an element of the phosphorous group, with the exception of nitrogen and boron, comprising subjecting a compound of the phosphorous group, with the exception of nitrogen and boron, to electrolyzation, in conjunction with a re-agent capable of forming nascent hydrogen at the cathode and oxygen at the anode, and collecting the gases formed.

1,375,820. PRIMER FOR INTERNAL-COMBUSTION ENGINES. HENRY BLUMENBERG, Jr., Barstow, Calif., assignor to John H. Blumenberg, Huntington Park, Calif. Filed Aug. 4, 1919. Serial No. 315,277. 3 Claims. (Cl. 123—180.)



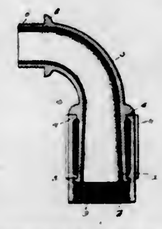
1. The combination with the combustion chamber of an internal combustion engine, of a source of electric energy, a gas generator having means for storing a quantity of electrolyte for use in generating a combustible gas, said generator having a chamber adapted to admit the electrolyte to the gas chamber, thereby turning on an electric current, and adapted to expel the electrolyte from the gas chamber by the pressure of the gas, thereby turning off the electric current, a passage leading from the gas generator to the combustion chamber, and single means under the control of the operator for closing said passage, whereby the supply to the combustion chamber is cut off and generation of the gas is discontinued.

1,375,821. TORPEDO. HARRY LUTHER BOESCH, Washington, D. C., assignor to Government of the United States, represented by the Secretary of the Navy. Filed Dec. 15, 1919. Serial No. 345,165. 4 Claims. (Cl. 114—25.)



1. In a torpedo, in combination, depth control mechanism, a diaphragm exposed to hydrostatic pressure, and a shock absorber interposed between the diaphragm and the depth control mechanism adapted to take up the shock when launching the torpedo.

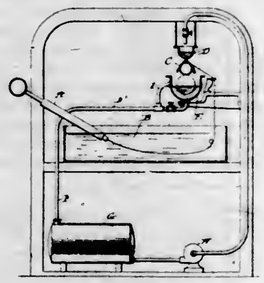
1,375,822. COUPLING. CHARLES AUGUST BORGESON, San Francisco, Calif. Filed Jan. 20, 1920. Serial No. 352,684. 1 Claim. (Cl. 285—161.)



A coupling comprising sections having interengaging means for rotatably and permanently connecting them, one

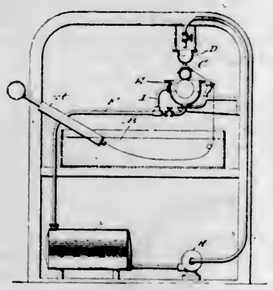
of the sections being adapted to fit within the other and having means for limiting its inward movement, said sections having interengaging means normally out of engaging position and adapted to be brought into engaging position by the expansion of the inner section, said interengaging means comprising an external rib on the first named section at the inner end thereof, and an internal rib on the last named section, said rib being spaced from the limiting means of the first named section to be positioned on the opposite side of the internal rib from the limiting means when the limiting means is in engagement with the last named section so that when the first named section is expanded the ribs will interengage to prevent disengagement of the sections to rotatably connect them.

1,375,823. PROCESS FOR THE PRODUCTION AND SIMULTANEOUS CONVERSION OF ARTICLES OBTAINED FROM SOLUTIONS INTO THEIR ULTIMATE FORMS. BENNO BORZYKOWSKI, Cleveland, Ohio. Filed May 29, 1917. Serial No. 171,794. 5 Claims. (Cl. 18—54.)



4. The process of producing articles from viscose solutions, which consists in forming and setting the same in a non-acid salt solution, and as an immediately subsequent operation converting the same into the final cellulose product.

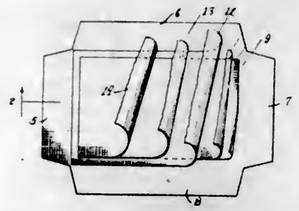
1,375,824. PROCESS OF PRODUCTION AND SIMULTANEOUS CONVERSION OF ARTICLES OBTAINED FROM SOLUTIONS INTO THE ULTIMATE FORMS. BENNO BORZYKOWSKI, Paris, France. Original application filed May 29, 1917, Serial No. 171,794. Divided and this application filed June 19, 1920. Serial No. 390,240. 4 Claims. (Cl. 18—54.)



1. That process of producing articles from coagulable solutions, which consists in passing the same directly into an alkaline bath and immediately thereafter, as a continuing operation, subjecting the same to an ultimate chemical conversion.

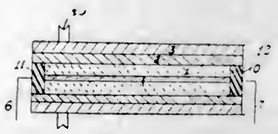
4. That process of treating cellulose masses, which consists in spinning the same into an alkaline bath, withdrawing the thread from the bath and winding the same under tension, and simultaneously converting the same into cellulose hydrate by subjecting it to the action of sulfuric acid.

1,375,825. PATCH FOR PNEUMATIC TIRES. JOHN R. BUECHLER, Akron, Ohio. Filed Oct. 29, 1919. Serial No. 334,218. 5 Claims. (Cl. 152—26.)



3. A patch of the class described, comprising a flat rectangular body composed of a plurality of superposed layers of textile fabric adhesively united by means of unvulcanized rubber and comprising an inner layer, an outer layer and a plurality of intermediate layers, the inner layer being substantially larger than the outer layer and the outer layer substantially larger than the intermediate layers, the said outer layer being provided with a plastic panel of unvulcanized rubber gum adapted to adhesively attach the patch to the interior surface of a pneumatic tire casing, and means to additionally hold said body in position in a tire, said means comprising non-adhesive flaps which project outwardly from each of the four sides of said body, so that the flaps on opposing sides may be impinged between the base of the tire and the tire rim.

1,375,826. CASTING METAL TUBING. LEON CAMMEN, New York, N. Y. Filed Jan. 24, 1921. Serial No. 439,574. 5 Claims. (Cl. 22—65.)



1. A process of manufacture of metal tubing by centrifugal casting, wherein is used a composite mold, consisting of not less than three parts, such that part one which comes in contact with the metal of the tube, is electroconductive; part two, essentially surrounding part one, is electro-insulative, and part three is of metal; and wherein further the lining, which is part one of the mold, is heated, previous to the pouring of the metal, by an electric current to a temperature close to the melting point of the metal.

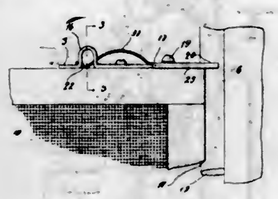
1,375,827. HATCHWAY-DOOR-OPERATING MECHANISM. CLARENCE LEE COLBY, Omaha, Nebr. Filed Oct. 2, 1919. Serial No. 328,037. 4 Claims. (Cl. 187—52.)

1. In combination with an elevator cage and its hatchway, having hatchway openings and doors normally closing them, of mechanism for imparting movement to a selected door to open a particular hatchway opening comprising a vertically movable head, connections between the head and the door so that the movement of the head in one direction will cause an opening movement to be imparted to the door and a movement of the head in the other direction will cause a closing movement to be imparted to said door, a motor driven screw feed for imparting movement to the head in either direction, and manually controlled means for causing rotation of the



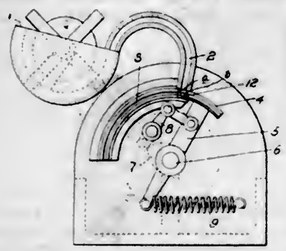
motor in one direction and automatically operated means in response to movement of the elevator for causing rotation of the motor in the opposite direction.

1,375,828. SAFETY DEVICE FOR SCREENS. EDWARD J. COLEMAN, Scranton, Pa. Filed Sept. 9, 1920. Serial No. 409,173. 5 Claims. (Cl. 156—14.)



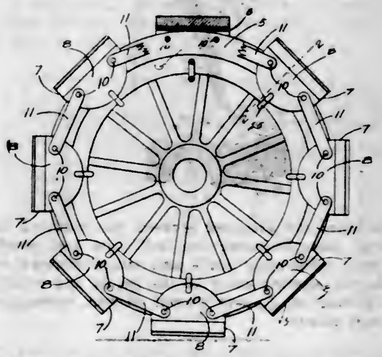
5. The combination with a window screen provided in the side thereof with a shallow groove adapted for the slidable reception of a guiding strip, of a member mounted upon the screen and adapted to be moved into and out of engaged position, said member being provided with a notch of greater depth than the groove of the screen which slidably receives the guiding strip when the member is in engaged position and means resiliently resisting movement of said member when in the engaged position.

1,375,829. NUT AND BOLT ASSEMBLING MACHINE. JAMES CRAIG and CHARLES C. THOMSON, Butler, Pa. Filed May 19, 1920. Serial No. 382,650. 9 Claims. (Cl. 10—155.)



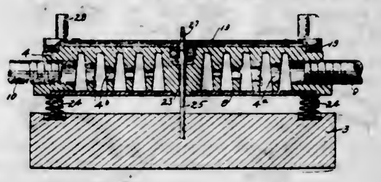
1. In a nut and bolt assembling machine, a roll way for bolts formed by and between opposite bolt-engaging members extending in parallelism, means for moving one of said members relatively to the other in the line of such parallelism, whereby a bolt engaged by the said opposite members is rolled in said roll way, and means for causing a nut restrained against rotation to advance in unison with a bolt so rolled, substantially as described.

1,375,830. AUTO-WHEEL. GEORGE H. CRASS, Ithaca, N. Y., assignor of one-half to John Sabin, Ithaca, N. Y. Filed Sept. 10, 1919. Serial No. 322,791. 2 Claims. (Cl. 301—43.)



1. In a device of the class described, a rim; tread members mounted on the rim and comprising side ears; securing elements connecting the ears of each tread member with the felly; and links connecting the securing elements of each tread member with the securing elements of adjoining tread members.

1,375,831. PRESS FOR MOLDABLE COMPOUNDS. GEORGE HOWLETT DAVIS and CHARLES HOWARD MITCHELL, West Orange, N. J.; said Mitchell assignor to said Davis. Filed Dec. 17, 1919. Serial No. 345,456. 24 Claims. (Cl. 18—48.3.)



1. In a device of the character described, a press, two die members mounted upon said press and adapted to press a compound between them, at least one of said die members being constructed to permit a heating or cooling fluid to be circulated therethrough for heating or cooling the same uniformly, one of said dies having an aperture therethrough, a pin in said aperture and extending through the compound when the dies are pressed together, and means for causing said pin to be withdrawn from the compound and into the aperture in said die when the dies are separated.

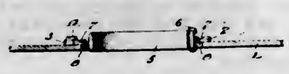
1,375,832. VEHICLE-WHEEL AND TIRE. EARL AMOS DE BAUN, Minneapolis, Minn. Filed Dec. 4, 1919. Serial No. 342,431. 3 Claims. (Cl. 152—30.)

2. In a vehicle wheel, a hub, a rim, a plurality of resilient connecting spokes, each of the spokes including a plurality of spring leaves and a reinforcing plate, the inner end of the reinforcing plate being provided with inwardly extending wings arranged to engage the hub, means rig-

idly securing the inner end of the reinforcing plate to the hub, one of said leaves being formed relatively long and having its inner end positioned between the wings in spaced relation to the hub, and having its outer end pivotally secured to the rim, another one of said leaves having its inner end extended between the wings of the reinforcing plate engaging the hub, said last mentioned leaf, hub, reinforcing plate and wings forming an oil pocket, the meeting faces of the leaves and reinforcing plate having oil grooves formed therein communicating with said pocket.

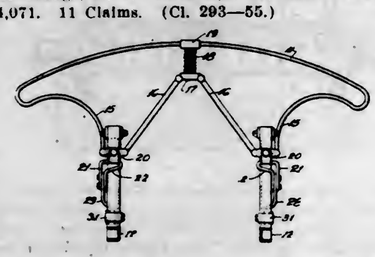


1,375,833. LUBRICATING MEANS FOR SPINNING-RINGS. OSCAR A. DOVER, Gastonia, N. C. Filed June 28, 1920. Serial No. 392,399. 2 Claims. (Cl. 118—59.)



1. The combination with an imperforate spinning ring, of a supporting member therefor, said member having in its upper face an annular oil groove surrounding the ring, and provided with ducts extending through itself so as to conduct oil to the lower edge of said ring.

1,375,834. AUTOMOBILE-BRACKET. HARRY W. DYER, East Orange, N. J. Filed Apr. 15, 1920. Serial No. 374,071. 11 Claims. (Cl. 293—55.)

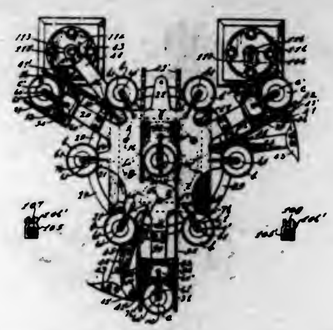


5. A bracket attachment for automobiles consisting of a flat shaped member with attaching means positioned with relation to the frame of said automobile and a clamping piece, said member secured to said clamping piece, said clamping piece secured to the frame of said automobile and offset to position said member in the horizontal plane of the frame of said automobile.

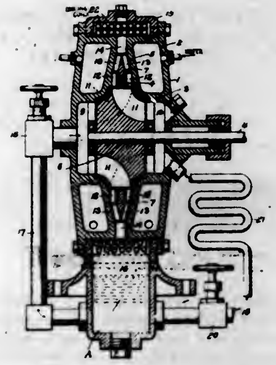
1,375,835. AUTOMATIC BOWLING MECHANISM. OREN J. FAIRCHILD, Pasadena, Calif. Filed Dec. 14, 1917. Serial No. 209,175. 59 Claims. (Cl. 46—54.)

45. A bowling mechanism including a frame at the playing position, pivotally movable pin seats supported thereon, and means for elevating and depositing the pins on said seats.

58. A bowling mechanism including a pin collecting device comprising spaced pairs of parallel spiral rolls with openings therebetween for receiving and facing the pins after a play.

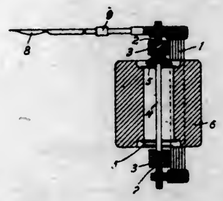


1,375,836. REFRIGERATING APPARATUS. ERNEST F. FISHER, Essington, Pa. Filed Jan. 17, 1919. Serial No. 271,599. 3 Claims. (Cl. 62—115.)



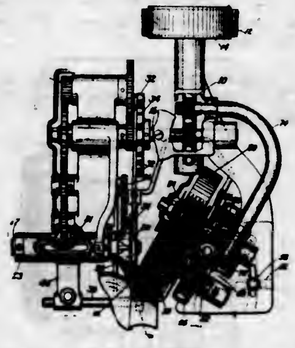
1. A gas compressor including a rotor having a centrifugal passageway, means for introducing at the inner end of said passageway the gas to be compressed, communication from the delivery end to the intake end of said passageway, and a body of fluid homogeneous with the gas to be compressed circulating in liquid form through said passageway and through the line of said communication, substantially as described.

1,375,837. ELECTRICAL MEASURING INSTRUMENT. CHARLES EDWIN FOSTER, Letchworth, England. Filed Sept. 11, 1916. Serial No. 119,494. 2 Claims. (Cl. 171—95.)



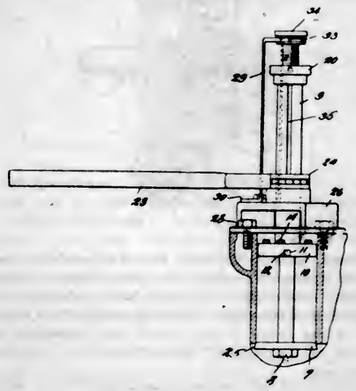
1. An electrical measuring instrument comprising a magnet, a core member revolubly mounted between the pole pieces of said magnet, a spindle for supporting said core member, jeweled pivot bearings engaging the extremities of said spindle, a positive connection between said jeweled pivot bearings adapted to hold said bearings in fixed relation to each other, springs for supporting said spindle which springs are so arranged as to constitute the sole lateral support of said spindle and core member, and a pointer supported by said spindle and adapted to turn therewith.

1,375,838. BLACKING-MACHINE. FREDERICK M. FULLER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 12, 1917. Serial No. 206,776. 30 Claims. (Cl. 12—31.)



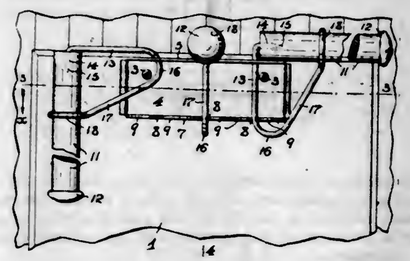
14. In a blacking machine, the combination of a rotatable blacking applying brush, a rotatable comb having circumferentially separated teeth arranged to engage and straighten out the bristles of the applying brush, and intermeshing driving means for said devices constructed and arranged to cause the teeth of the comb to engage the brush at progressively advancing points, which points, as to successive circumferential actions about the brush, vary in their angular relation.

1,375,839. REBORING-MACHINE. WILBURN ADOLFUS GALLEMORE, South Clinchfield, Va. Filed Feb. 5, 1920. Serial No. 356,449. 3 Claims. (Cl. 77—2.)



1. In a boring machine for reboring cylinders, a supporting rod having a disk on one end thereof, said disk having inclined surfaces to cause the same to seat within one end of the cylinder, a tubular member supported on the supporting rod, cutting blades carried by the tubular member, a relatively large head positioned on the tubular member and adapted to be secured to the upper surfaces of a cylinder, means for rotating the tubular member and cutting blades, a bracket member having connection with the relatively large head and having a right angled upper extremity, a threaded head positioned in the right angled upper extremity, said supporting rod having a threaded portion extending through the threaded head, and said rod adapted to be threaded through the threaded head where the same drops through the cylinder.

1,375,840. RACK DEVICE. FREDERICK GOERTZ, Newark, N. J., assignor to August Goertz & Co., a Corporation of New Jersey. Filed June 19, 1917. Serial No. 175,604. 1 Claim. (Cl. 45—32.)



A rack-device comprising a main supporting member, an upper plate and a lower plate, said plates extending forwardly at right angles from said main supporting member, said upper plate being provided with a perforation, and said lower plate being provided with a slot, combined with a supporting rod and a bracket-shaped supporting means consisting of two members angularly disposed with relation to each in the manner of the base and hypotenuse of a triangle, said supporting bar forming the third side of said triangle, and means for attaching said supporting bar respectively to said base and said hypotenuse, consisting of a right-angled member extending from said base and secured in the end of said supporting bar, and a ring-shaped element upon the free end of said hypotenuse, said ring-shaped element encircling said supporting bar, said base being disposed in said perforation and in said slot, so as to normally bear against said main supporting member to extend said supporting bar horizontally above said upper plate, but said supporting bar being movably disposed in said perforation so as to cause said supporting bar to hang in suspended relation from said upper plate.

1,375,841. BUFFER-CHECK FOR LOOM-PICKERS. HAROLD M. GUSDORF, Indianapolis, Ind. Filed Feb. 19, 1921. Serial No. 446,444. 4 Claims. (Cl. 139—22.)

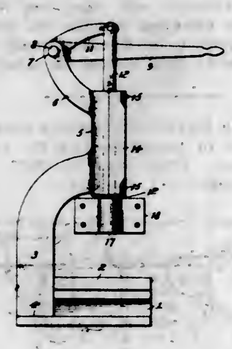


1. A buffer strap having a practically inelastic portion between elastic portions having outer surfaces pitted with cup-like indentations.

1,375,842. ICE-CREAM-CUTTING MACHINE. RICHARD HAEGER, WILLIAM SCHRANER, and PAUL HAEGER, Detroit, Mich. Filed Mar. 24, 1919. Serial No. 284,830. 4 Claims. (Cl. 107—20.)

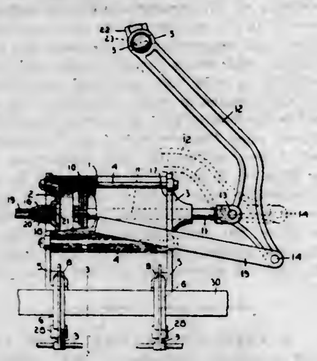
4. A device of the character described comprising spaced beams, a platform supported on the beams, an upstanding member secured to one end of each beam and the upper end thereof curved inwardly to overlie the plat-

form, a vertical guide formed on the curved end of each upstanding member, a detachable plate secured to each guide, a rod operating in each guide and held in vertical position by the detachable plate, an arm formed on



each guide, a shaft supported by the arms, means connecting the shaft and vertical rods, a frame, detachable clamps secured to the frame and provided with eyes to receive the ends of the vertical rods, and blades secured in the frame.

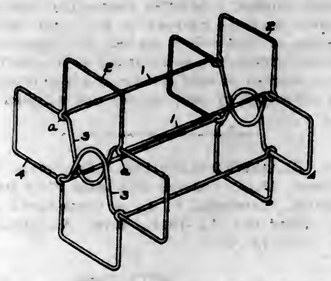
1,375,843. TIRE-PUMP. ROLAND C. HILTON, Troy, N. Y., assignor, by direct and mesne assignments, to Reece-Hilton Inc., Troy, N. Y., a Corporation of New York. Filed Mar. 12, 1919. Serial No. 282,137. 2 Claims. (Cl. 230—27.)



1. In a pump, the combination with a pump casing comprising a cylinder element and two heads or end members between which the cylinder is clamped, each end member having a foot to rest on a support, of a clamp pivotally connected to each foot and by which said pump casing may be clamped to said support, each clamp being pivoted to swing about an axis extending transversely to the cylinder, a piston operating in said cylinder, and means to actuate said piston.

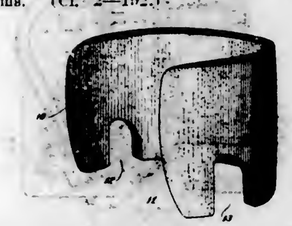
1,375,844. REEL. JOHN A. HOLMQUIST, Woodlawn, Pa. Filed May 29, 1920. Serial No. 385,133. 3 Claims. (Cl. 242—115.)

2. A reel composed of four endless lengths of wire, two bent each into three planes and consisting of a medial portion of parallel reaches and opposite terminal portions parallel one to another and perpendicular to the medial portion and consisting of bends connecting the medial reaches, the other two endless lengths being bent to the form of elongate rectangles with overlapping bends intermediate their long sides, the two members last named



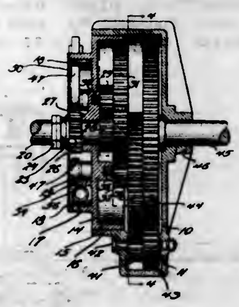
articulating together the two members first named, substantially as described.

1,375,845. HEAD-PROTECTOR. CHARLES HORAN, New York, N. Y. Filed Sept. 10, 1920. Serial No. 409,320. 11 Claims. (Cl. 2—192.)



1. A head protector formed of a slab of light, resilient and slightly flexible shock-absorbing material shaped to extend about the back of the head and neck of the wearer and forward about the sides of the head sufficiently to protect the temples and being open in front and adapted to lightly grip the sides of the head through its inherent elasticity and thereby retain its position.

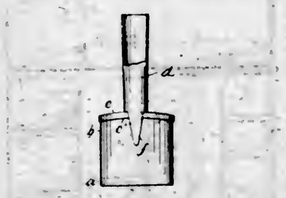
1,375,846. CHANGE-GEAR. ROBERT JENNETT, Chester, Pa. Filed May 28, 1920. Serial No. 384,848. 7 Claims. (Cl. 74—58.)



1. Change gear mechanism including a drive member; a driven member; a series of change gears adapted to operatively connect said drive and driven members; and common means movable to automatically effect movement of any of the gears of said series into operative connection with said drive and driven members; substantially as described.

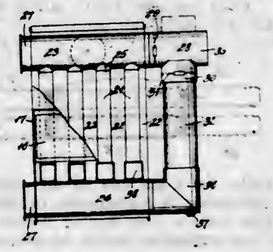
1,375,847. PAINTBRUSH-FERRULE AND METHOD OF MAKING THE SAME. FRANK JOERGER, Brooklyn, N. Y. Filed Feb. 10, 1920. Serial No. 357,501. 12 Claims. (Cl. 113—112.)

1. The method of making a flat paint brush, which consists in separately making a flat ferrule open at both ends, and a cap having a narrow flange adapted to fit over one end of the ferrule and provided with a hollow shank having integral tongues projected transversely to



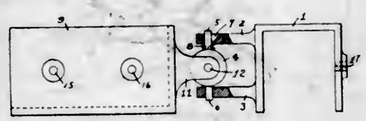
the flange, and finally soldering the flange of the cap and the tongues to the top end and sides of the ferrule respectively.

1,375,848. AUXILIARY HEATER FOR FURNACES. OTTO J. KUENHOLD, Cleveland, Ohio, assignor to The Scientific Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 6, 1918. Serial No. 232,773. 3 Claims. (Cl. 257—175.)



2. A self-contained auxiliary heater for use with furnaces, comprising an outer casing having an air inlet and an air outlet, upper and lower headers therein, and a series of radiators connecting said headers, the upper header being openable at either end and having a lateral branch and thereby being adapted at three different places for connection of a smoke pipe thereto.

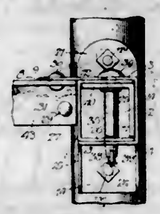
1,375,849. CLAMP. CHARLES B. LATENDORF, Bayonne, N. J. Filed June 12, 1920. Serial No. 388,534. 2 Claims. (Cl. 248—30.)



1. A device of the class described, comprising two clamp members and a ball member provided with projecting pins engaging in openings in extensions from said clamp members, one of said openings being formed with one side beveled upwardly and inwardly toward the body of the clamp to permit the ball member and pin to be slipped into the opening in an angular position and swung into a vertical position to allow the second pin to be engaged in its opening.

1,375,850. CORNER-BLOCK FOR BEDSTEADS. SAMUEL J. LAVEZZI, Chicago, Ill. Filed Sept. 15, 1919. Serial No. 323,785. 11 Claims. (Cl. 5—55.)

1. A corner block for bedsteads comprising a vertical plate adapted to be secured to the bedpost, two parallel plates at substantially right angles thereto, such plates terminating at their outer ends in a casing rectangular in cross section, and adapted to receive a side rail, said plates having lower edges inclined upwardly and outwardly with inwardly turned portions forming the bot-



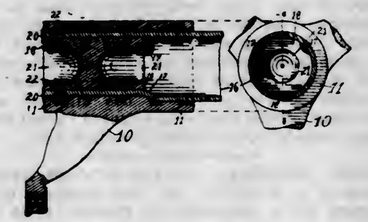
tom of said casing, means in said casing to secure such rail therein, and means on one of the two parallel plates to secure an end rail.

1,375,851. SPARK-PLUG. OSCAR M. LEICH, Genoa, Ill., assignor to Leich Electric Company, Genoa, Ill., a Corporation of Illinois. Filed Nov. 6, 1919. Serial No. 336,157. 8 Claims. (Cl. 123—169.)



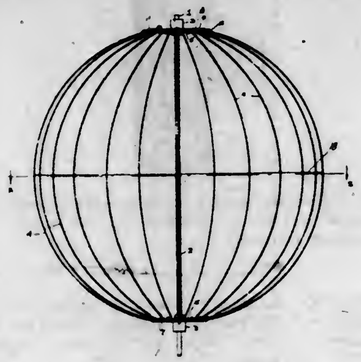
1. A spark plug of the character described comprising a metallic body member and an insulating base secured therein, a main electrode carried by said body member, a second main electrode carried by said insulating base and an auxiliary electrode carried by said insulating base adjacent said main electrode and inclosing the end of said base, said two main electrodes being in juxtaposition whereby the main spark passes directly between them.

1,375,852. METHOD OF ATTACHING UNIVERSAL-JOINT SPIDERS TO TUBULAR PROPELLER-SHAFTS. ASA E. LINENDOLL, Norwalk, Ohio. Filed May 13, 1920. Serial No. 381,111. 3 Claims. (Cl. 29—148.)



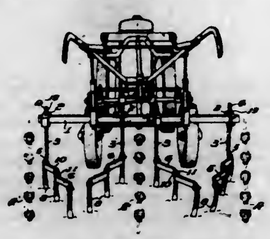
1. A method of attachment for a tube to a spider which consists in drilling the forged blank of the spider and broaching away portions of the bore of said drilled spider hub to leave spaced ribs therein, shaping the end of the tube with similarly spaced grooves or inwardly bent ribs to fit said spaced ribs within the bore of said spider hub, and a similarly grooved plug attached within said tube to hold said parts in rigid attachment to one another.

1,375,853. COLLAPSIBLE GLOBE. SARAH E. LYMAN, Cleveland, Ohio. Filed Feb. 9, 1920. Serial No. 357,319. 5 Claims. (Cl. 35—5.)



2. In a device of the character described, the combination of a central spindle, plates adjacent the ends of said spindle, a plurality of arcuate ribs pivotally attached at their respective ends to said plates so as to form a globe-like frame when extended in radial position, said ribs being adapted to fold together one against the other on opposite sides of said spindle, and means adapted thus to fold and to unfold said ribs, as desired.

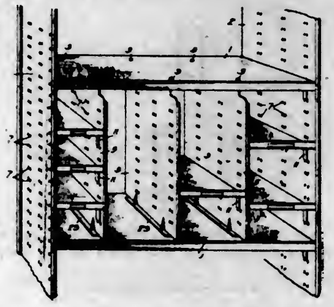
1,375,854. AGRICULTURAL IMPLEMENT. JOSEPH MADER, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed June 9, 1920. Serial No. 387,523. 3 Claims. (Cl. 97—35.)



2. An attachment for a hand guided tractor comprising a supporting bar, means for adjustably connecting said bar with the tractor, a plurality of tool carrying shanks arranged in pairs, each shank having a vertical portion and a horizontal portion, means for supporting said vertical portions on said bar in vertical and longitudinal adjusted relation with respect thereto, the horizontal portion of each shank being laterally offset to provide a plurality of parallel tool seats and diagonally extending portions connecting said seats, and a ground working tool operatively supported on each of said seats, one shank of each pair of shanks being arranged so that the offset portion extends in one direction and the other shank of said pair being arranged so that the offset portion extends in the opposite direction.

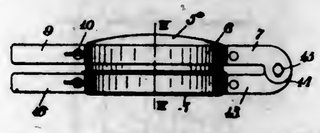
1,375,855. SHELVING. JOHN B. O'CONNOR, Aurora, Ill., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Oct. 22, 1919. Serial No. 332,461. 3 Claims. (Cl. 211—27.)

1. In shelving, the combination with the main shelf and upright partitions for supporting them, of a flat, upright divider consisting of sheet metal and having a foot for attachment to the main shelf, the foot being struck out of the metal of the divider and extending in both directions from the plane thereof and being apertured at a point in the plane of the divider for receiving a bolt or a similar fastening device, the metal of the divider being outpressed for a short distance vertically near said aperture for facilitating the insertion of the fastening device



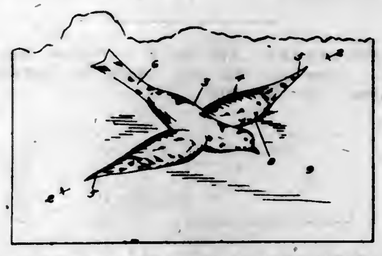
and forming on one side a shield for preventing contact with external objects and on the other side a housing for the same purpose.

1,375,856. BOX-HOLDER. WALTER C. O'KANE, Durham, N. H. Filed Jan. 28, 1920. Serial No. 354,687. 2 Claims. (Cl. 15—18.)



1. A holder for a box and its lid substantially as described, comprising, in combination, two frames hinged together, said frames each having flexible rim-embracing portions and adjustable means connecting the rim engaging portions whereby said engaging portions can be drawn with a regulated preasure upon the rim.

1,375,857. BAS-RELIEF DESIGN AND METHOD OF MAKING SAME. CORALIE S. OLNEY, Oakland, Calif. Filed May 19, 1919. Serial No. 298,188. 1 Claim. (Cl. 41—25.)

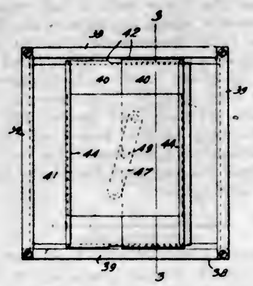


A relief comprising a suitable base of relatively heavy material, a piece of stretchable crape paper conforming to the configuration of a design disposed thereon, a portion of the material containing the design being stretched variable distances from the base, while other portions are directly attached to the base, a padding in the space where the crape material is stretched, and a hard shellac coating covering said crape material to retain the same in shape.

1,375,858. HOLDING MEANS FOR OPAQUE OBJECTS. HARVEY N. OTT and FRANK H. BUFTON, Buffalo, N. Y., assignors to Spencer Lens Co., Buffalo, N. Y. Original application filed Oct. 31, 1916, Serial No. 128,699. Divided and this application filed Nov. 13, 1919. Serial No. 337,774. 4 Claims. (Cl. 88—26.)

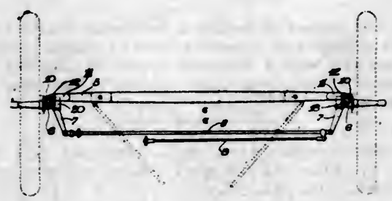
1. A card or object holder for projection apparatus comprising a frame, holding members mounted to slide toward

and from each other on said holder frame, a lever having sliding connections with said holding members for causing opposite movements thereof, said lever being arranged to



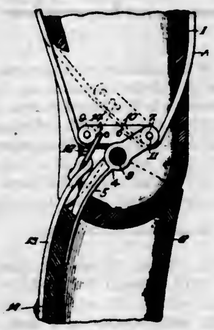
swing across a line extending perpendicular to the line of movement of the holding members toward and from each other, and an operating handle for said lever, said handle projecting from said frame.

1,375,859. STEERING MECHANISM FOR VEHICLES. ROBERT S. PIERCE and MAX R. KUEHN, Milwaukee, Wis. Filed Mar. 17, 1920. Serial No. 366,495. 3 Claims. (Cl. 280—96.1.)



1. In an automobile the combination, with the front axle, wheel spindle and the steering arm connected to the spindle, of a member having a tubular portion and arms extending rearwardly therefrom, a bolt passing through said arms and said spindle, a pivot bolt passing through said tubular portion and the end of the axle, an apertured boss on said member receiving the threaded end of the steering arm, and a clamping nut on the threaded end of said steering arm and engaging the boss.

1,375,860. ARTIFICIAL LIMB. JAMES F. ROWLEY, Chicago, Ill. Filed July 6, 1920. Serial No. 394,062. 11 Claims. (Cl. 3—2.)



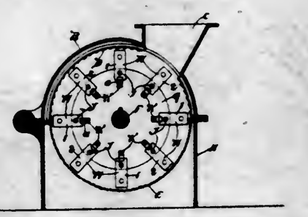
1. In an artificial leg upper and lower leg-sections pivoted together, means operable by an extension of the body of the wearer for swinging the lower leg-section toward straightened position with respect to the other leg-section, and a resilient leg flexing means opposed to the straightening action.

1,375,861. SURGICAL SWAB. WILLIAM H. SHARP, Chicago, Ill., assignor to Bauer & Black, Chicago, Ill., a Corporation of Illinois. Filed Aug. 23, 1918. Serial No. 251,093. 3 Claims. (Cl. 128—269.)



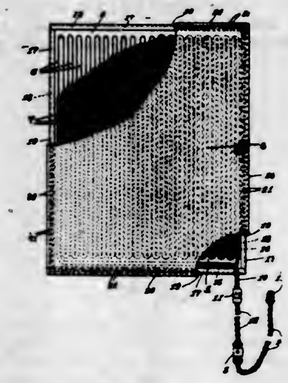
1. A surgical swab comprising a liquid container having a constricted end adapted to be broken to release the liquid and a shoulder back of said end, a fabric wrapping arranged over said constricted end and forming a brush, and a coating of water-glass uniting said constricted end and said wrapping, whereby, when said end is broken the fragments of the container will adhere to said wrapping.

1,375,862. GRINDER AND SHREDDER. HARRY J. SHELTON, St. Louis, Mo. Filed Apr. 26, 1920. Serial No. 376,707. 7 Claims. (Cl. 83—11.)



1. A grinding and shredding machine comprising a housing, a grinding chamber, disks rotatably mounted in said chamber, pivot rods extending between said disks, a plurality of hammers pivotally mounted on said pivot rods between adjacent disks, and means engaging the sides of the inner ends of said hammers and separate from and independent of said pivot rod whereby the hammers on a pivot rod are maintained in spaced relation.

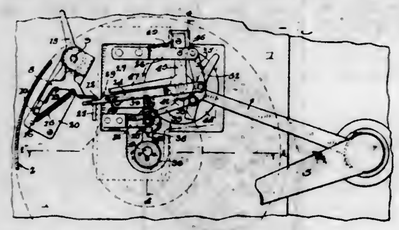
1,375,863. ELECTRICAL APPLIANCE. JOHN T. STANTON, Seattle, Wash. Filed June 1, 1920. Serial No. 385,782. 2 Claims. (Cl. 219—46.)



1. The method of fabricating an electro-therapeutic blanket which consists in cutting a sheet of textile fabric of the desired size and treating the same with a suitable

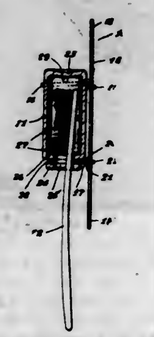
solution to stiffen it then treating it in a solution to make it fireproof and a non-conductor of electricity, then taking a strip of tape and treating it in the same manner as said sheet of textile fabric, then drying said sheet of fabric and said tape, then taking insulated wire and laying it on said sheet of textile fabric and superposing the said strip of tape on said wire and stitching both to said sheet, then cutting two sheets of textile fabric to form the upper and lower covering for said blanket, then laying the first named sheet with its associated wiring and tape on the lower covering sheet, then turning the edges of said lower covering upwardly and inwardly so that said edges overlap the edges of the first named sheet, then superposing the upper covering on the first named sheet and turning its edges downwardly and inwardly so that the last named folded edges will lie substantially on the folded edges of the said lower covering, the edges of said upper covering being folded in such manner as to leave a portion of the same projecting beyond the folded edges of the lower covering and stitching the edges of all the sheets together.

1,375,864. AUTOMATIC STOP FOR SOUND-REPRODUCING MACHINES. OLE O. STORLE, Tacoma, Wash. Filed July 24, 1919. Serial No. 313,040. 7 Claims. (Cl. 192—116.)



1. In an automatic stop for sound reproducing machines the combination with a brake, means tending to apply the brake and means for holding the brake in off position, of a reciprocatory brake releasing member movable transversely to its reciprocatory movement into and out of operative position, a frictional actuating connection with the stylus arm tending to shift the brake releasing member out of operative position, and means operatively connected with the turn table spindle and with the brake releasing member and adapted to constantly reciprocate said member longitudinally while rotation of the spindle continues and to periodically shift it laterally into operative position for releasing the brake when the inward movement of the stylus arm is arrested.

1,375,865. TOOTHBRUSH-RECEPTACLE AND HOLDER. ANTON G. SULAK, Seattle, Wash. Filed July 1, 1920. Serial No. 393,466. 1 Claim. (Cl. 248—63.)



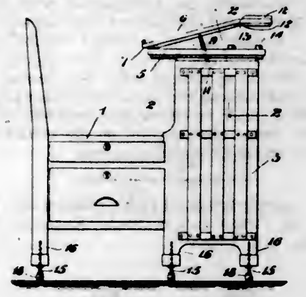
In a tooth brush repository the combination of a support, a tubular receptacle adapted to be disposed thereon comprising a body portion, a neck portion on one end of the said body portion having an axially disposed mouth formed therein, and an exteriorly disposed annular groove formed thereon, an annular shoulder formed by the said neck portion on the inner wall of the said receptacle adapted to releasably engage the bristles of a tooth brush, a band adapted to be fixedly secured to the said support adjacent the upper end thereof and adapted to encircle and retain the upper end of the said receptacle, a flexible looped member adapted to be fixedly secured to the said support adjacent the lower end thereof and adapted to seat in the aforesaid annular groove and to releasably engage the aforesaid neck portion of the said receptacle, ventilating means for the said receptacle and securing means for the said support.

1,375,866. STENCIL-SHEET AND PROCESS FOR MAKING IT. ALBERT F. SULZER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1916. Serial No. 89,226. 4 Claims. (Cl. 41—46.)



1. The process of making a waterproof opaque stencil paper consisting in covering a sheet of translucent paper on one side with a removable opaque coating and then applying a waxy waterproof coating to the other side of the sheet.

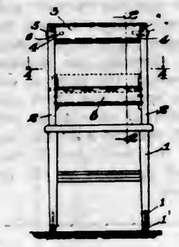
1,375,867. DESK-CHAIR. EARL THOMPSON, New York, N. Y. Filed Dec. 27, 1917. Serial No. 209,035. 3 Claims. (Cl. 155—128.)



1. In a device of the character described, the combination of a pedestal, a bracket member on the pedestal, a bed member supported on the bracket and adapted to be adjusted horizontally, a desk tablet hinged to the bed member at their inner marginal edges, whereby the desk member may be inclined, and a shelf section on the outer edge of the desk tablet and supported solely thereby in a horizontal position when the tablet is inclined.

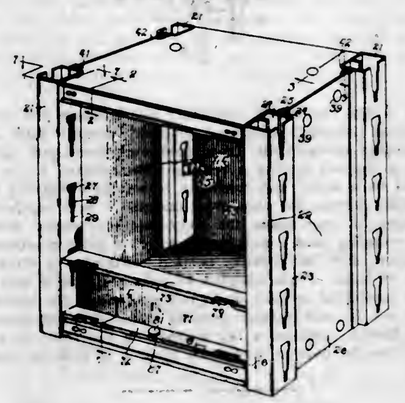
1,375,868. CHAIR. EARL THOMPSON, New York, N. Y. Filed Dec. 20, 1918. Serial No. 267,576. 4 Claims. (Cl. 155—158.)

4. In a chair the combination of a back, a cross piece pivoted thereon at approximately the height of the shoulders of the occupant and adapted to swing freely to adjust itself to the normal chest position of the occupant, means for limiting the swing of the cross piece, a lumbar rest positioned on the back below the cross piece, means for



adjustably positioning the lumbar rest and means for adjusting the height of the chair substantially as shown and described.

1,375,869. METAL SHELVING. WALTER N. VANCE, Chicago Heights, Ill., assignor to Durand Steel Locker Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1917. Serial No. 198,408. 27 Claims. (Cl. 211—27.)

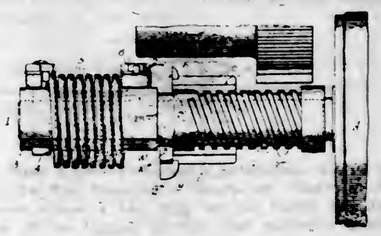


1. Metal shelving comprising: uprights, shelves carried thereby, a vertical wall closing the space between two uprights, and clips interlocked with said shelves and said wall for holding said wall in position.

4. Metal shelving comprising: uprights having elongated slots or perforations, a vertical wall for closing the space between two of said uprights and provided with perforations, and clips for securing said wall to said uprights,—one of said clips having a bent tongue engageable in a perforation in said wall and having a bent end at the other adapted upon subsequent rotative movement of the clip to engage in one of said slots.

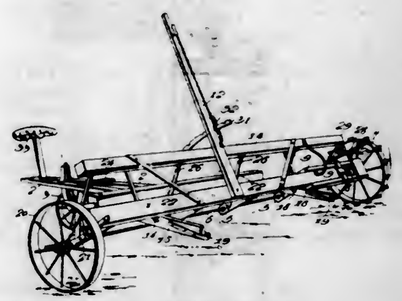
1,375,870. ENGINE-STARTER. HENRY E. VAN NESS, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,773. 11 Claims. (Cl. 74—7.)

1. In an engine starter, the combination of a rotatable member, a second member mounted thereon for longitudinal movement thereof from a normal position to an advanced position to cause engagement with a part of the engine to be started, and for rotary movement therewith, and means carried by the second member and arranged at the initiation of its longitudinal movement to



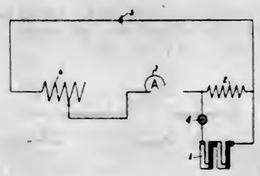
contact the rotatable member for imparting thereto a yielding resistance but free from such rotatable member in its further longitudinal movement.

1,375,871. ROTARY-ROD WEEDER. LOUIS C. VAN PATTEN and JOEL B. WOLFE, Cheney, Wash., assignors to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Filed Sept. 9, 1920. Serial No. 409,094. 7 Claims. (Cl. 97—25.)



2. In rotary rod weeders wherein is provided a main beam carrying the rod bearing standards in which the rotary rod is located and carrying the rotary rod driving mechanism and a tiller frame hinged to the main beam; a hitch bar located to the rear of the main beam, draft members connected to the hitch bar and projecting forwardly of the main beam and hinged thereto, and a lifting lever secured to the main beam.

1,375,872. ELECTRIC PYROMETER. THOMAS W. VARLEY, New York, N. Y. Filed Jan. 15, 1918. Serial No. 211,959. 3 Claims. (Cl. 73—32.)



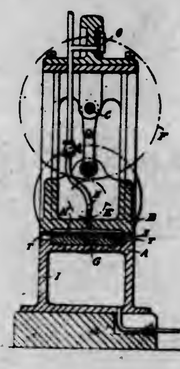
1. The combination with a source of electromotive force of a resistance, a variable resistance and a current responsive indicating instrument connected in series with said source, a shunt to said first mentioned resistance including a thermo-couple and means for opening and closing said shunt without affecting the series connection of said resistances and instrument.

1,375,873. BUTTON. JINDŘICH WALDES, Prague, Bohemia. Filed Aug. 1, 1919. Serial No. 314,755. 2 Claims. (Cl. 24—90.)



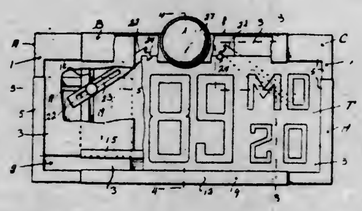
1. A button, comprising a member having a shank and a base to which the shank is attached and which is grooved and ribbed on one side, and a socket member comprising a hollow body portion formed on its under side with grooves and ribs corresponding with those in the base of the shank member, said hollow socket member containing locking devices which permit the shank to be inserted in the hollow body to prevent its withdrawal therefrom when once engaged therewith.

1,375,874. MANUFACTURE OF PRINTING-PLATES OR SURFACES FOR PRINTING FROM. ALFRED JAMES NEILL WALKER, Liverpool, England. Filed Jan. 25, 1918. Serial No. 213,788. 1 Claim. (Cl. 101—27.)



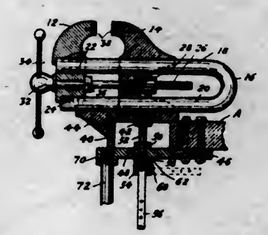
An apparatus of the character described comprising a table, a matrix carried by the table, a follower having a recess, an inflatable mattress in said recess above the lower edge thereof, said follower and mattress being spaced from the table in lowered position whereby when the follower is brought down to its lowermost position, the sheet laid upon the matrix will partially enter the recess below the mattress while permitting the gas or liquid between the sheet and the matrix to escape through the space between the table and the follower.

1,375,875. LICENSE-TAG HOLDER. CHARLES R. WALLACE, Baltimore, Md. Filed Feb. 13, 1920. Serial No. 358,363. 1 Claim. (Cl. 40—10.)



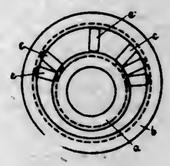
A license tag holder comprising an intermediate and two outer sections, each of said sections comprising a pair of telescopically engaged plates, the upper portion of the lower plate of each of the outer sections having a laterally disposed slot, the upper portion of the lower plate of the intermediate section having spaced openings formed in the end portions thereof, said openings registering with vertically disposed slots formed in the end portions of the upper plate of said intermediate section, a bolt extending through the registering portions of said slots and openings, the head of said bolt being disposed between the upper and lower plates of the outer sections, a longitudinally slotted tag holding arm mounted on the bolt and engaged with the head thereof, and a nut threaded on the portions of the bolts extending through the spaced openings in the lower plate of the intermediate section.

1,375,876. VISE. JOSEPH L. WARE, Minneapolis, Minn. Filed June 20, 1919. Serial No. 305,590. 2 Claims. (Cl. 81—41.)



1. A vise comprising stationary and movable jaw members, an inverted cupshaped member integral with and extending downwardly from said stationary jaw member, a support having a rear portion adapted to be secured to a bench and having a forwardly extending flat disklike portion for the lower margin of said cupshaped member to rest upon for swiveling movement, means for clamping said cupshaped member in desired adjusted position, said flat disklike portion containing a circular row of holes, a pin adapted to pass through a hole in said cupshaped member and enter any one of the holes of said row for additionally securing said cupshaped member in adjusted position, a lug member on the front of said flat disk-like portion, and a leg secured to said lug member.

1,375,877. ROLLER-BEARING. ERNST HJALMAR WALODDI WEIBULL, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Apr. 26, 1919. Serial No. 292,027. 1 Claim. (Cl. 64—39.)



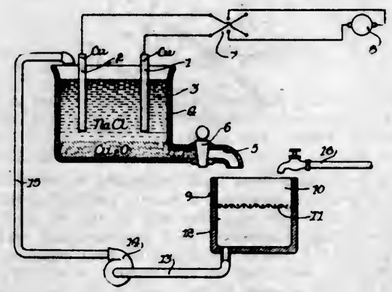
A method for inserting disk-shaped rollers in an anti-friction roller bearing having two race-rings and grooves in both the race-rings consisting in inserting the rollers between the race-rings when turned at right angles to their normal operative position with the middle plane of each roller perpendicular to the axis of rotation of said roller in a plane through the axis of the bearing while the two race-rings are held eccentrically in relation to each other, then pushing the rollers close together, then bringing the race-rings into concentric relation and distributing the rollers along the whole circumference of the race-ring and finally 90 degrees into their normal operative position.

1,375,878. WINDSHIELD-CLEANER. AUGUSTUS W. WESSOLECK, New Britain, Conn. Filed Jan. 25, 1921. Serial No. 439,873. 5 Claims. (Cl. 15—59.)



1. In a windshield cleaner, a channeled portion, a wiper strip located therein and projecting beyond the edge thereof, a well carried by said channeled portion for containing liquid, means for conveying liquid by capillary action from said well to said channeled portion and to said wiper strip, means for supporting said cleaner upon a windshield and in a substantially upright position, said means being movable whereby said strip may be moved laterally to clean the surface of said shield.

1,375,879. BRUSH AND METHOD OF MANUFACTURING THE SAME. HUGH H. WIKLE, Chicago, Ill. Filed Apr. 13, 1918. Serial No. 228,309. 12 Claims. (Cl. 204—54.)



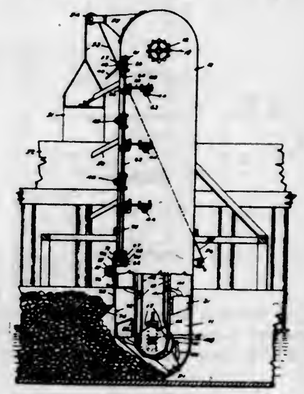
1. A brush of the class described consisting of a mixture of finely subdivided metal containing copper, with powdered graphite, said mixture being bonded together solely by pressure.

1,375,880. BUCKLE. WARREN E. WILLIS, North Attleboro, Mass., assignor to E. I. Franklin & Co., North Attleboro, Mass., a Copartnership consisting of Wallace G. Franklin, Clarence W. Fisher, and Elton B. Fisher. Filed Feb. 7, 1921. Serial No. 442,966. 4 Claims. (Cl. 24—191.)



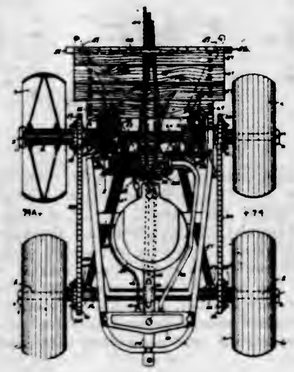
1. In a buckle, a body part; a clamping member having a relatively short bearing for a pintle adjacent the clamping jaw; a flexible pintle engaging the relatively short bearing and the body part to connect the two parts with capacity for rotative and reciprocative relative movement, substantially as described.

1,375,881. BUCKET ELEVATOR. CHARLES L. WILSEN, Manette, Wash. Filed Mar. 17, 1920. Serial No. 366,630. 5 Claims. (Cl. 193—6.)



1. In an elevator of the class described an upright trunk, having a plurality of discharge openings arranged at different elevations, endless conveyer chains movable within said trunk, buckets carried by said chains, each of said buckets having a hinged bottom whose front edge is arranged to swing downwardly and a hinged front side whose bottom edge is arranged to swing outwardly, means carried by said buckets for opening and closing said bottom and said swinging front side and devices within said elevator trunk for controlling said opening and closing means.

1,375,882. TRACTOR. FRED D. WILSON, Moline, Ill. Filed Feb. 4, 1919. Serial No. 274,911. 14 Claims. (Cl. 180—14.)

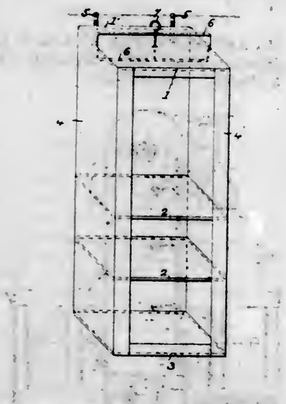


1. In a tractor, the combination of four driving wheels, two separate power transmitting mechanisms, each having a line controlled clutch operating only when said line is taut and automatic locking means acting simultaneously with the release of said clutch, substantially as described.

1,375,883. FOLDING WARDROBE. MARIE WOOLSON, Chicago, Ill. Filed Jan. 10, 1921. Serial No. 436,108. 2 Claims. (Cl. 45—37.)

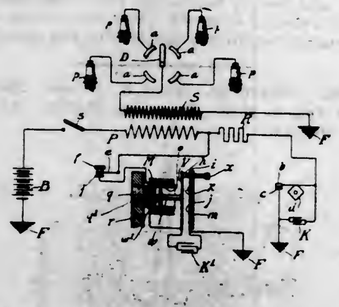
1. In a folding wardrobe structure of the type described, an upper and main frame of a rectangular skeleton form,

and a suspension frame of a rectangular skeleton form pivotally secured to said main frame at the midwidth of



the same and provided with an upwardly extending suspending hook said suspension member being adapted to fold into parallel and compact relation to said main frame.

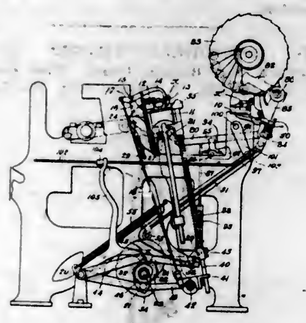
1,375,884. ELECTRIC IGNITION APPARATUS. FRANK AIKEN, Elkins Park, Pa., assignor to Arthur Atwater Kent, Ardmore, Pa., doing business as Atwater Kent Manufacturing Works, Philadelphia, Pa. Filed June 20, 1919. Serial No. 305,664. 15 Claims. (Cl. 175—357.)



1. Ignition apparatus comprising the combination with an induction coil, of a source of current, vibrator mechanism interrupting the primary circuit of said induction coil at substantially constant frequency throughout a wide range of variation of effective voltage of said source of current, said mechanism comprising a magnet winding in series with the primary winding of said induction coil, a stationary core member, a movable core member, an interrupter contact moved by said movable core member, and a closed circuit tube associated with said winding.

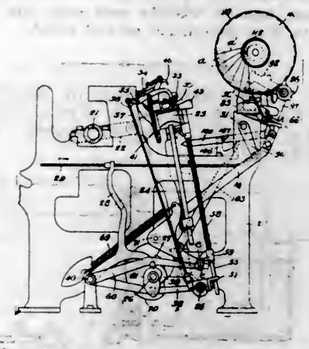
1,375,885. AUTOMATIC WEFT-REPLENISHING LOOM. LEONARD AITKEN, Lawrence, Mass., assignor to Lawrence Duck Company, Lawrence, Mass., a Corporation of Massachusetts. Filed Sept. 9, 1915, Serial No. 49,763. Renewed June 9, 1919. Serial No. 303,001. 32 Claims. (Cl. 139—85.)

1. In a weft-replenishing loom, the combination with a shuttle box having a shuttle-binder and an overhanging shuttle-guard, of a shuttle-engaging device mounted upon a pivot arranged under, and movable with, said shuttle-box, said device being arranged to extend between said shuttle-binder and said shuttle-guard to engage the rear side of the shuttle near the top, and means arranged to



actuate said device when the shuttle-box is inclined toward the rear of the loom, to move the shuttle toward the front of the loom.

1,375,886. WEFT-REPLENISHING LOOM. LEONARD AITKEN, Lawrence, Mass., assignor to Lawrence Duck Company, Lawrence, Mass., a Corporation of Massachusetts. Filed Apr. 13, 1914, Serial No. 831,355. Renewed Oct. 13, 1919. Serial No. 330,528. 23 Claims. (Cl. 139—85.)

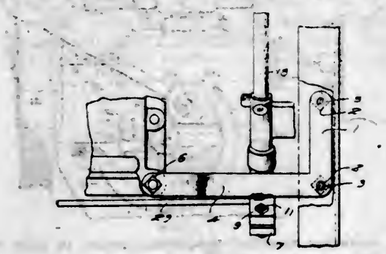


1. A weft-replenishing loom comprising in combination a movable bobbin magazine, a shuttle support, means arranged to move said magazine step by step to place the bobbins therein successively in a predetermined relation to said support, means movable with said magazine for carrying the weft ends of the bobbins, a thread-guide affixed to said support in the path of the weft-ends to register the latter relatively to the throat of the shuttle, means arranged to transfer a bobbin from said magazine to the shuttle on said support, and means arranged to depress the registered weft end exteriorly of the shuttle, to move such weft end in to the throat of the shuttle, said thread-guide being arranged to guide the weft end to the throat of the shuttle.

1,375,887. STEERING-GEAR CONNECTION FOR MOTOR-VEHICLES. THOMAS L. ANTHONY, Lincoln, Nebr. Filed Jan. 6, 1920. Serial No. 349,722. 3 Claims. (Cl. 74—79.)

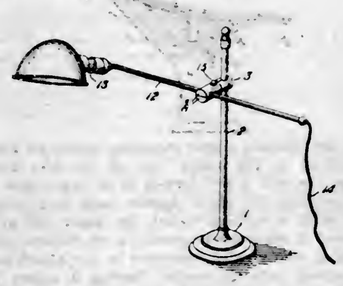
3. A steering gear connection for motor vehicles comprising the combination with the steering post and steering arms carried thereby and provided with a turned lower end with a ball formed thereon, and the steering rods of the steering mechanism, of an angular bracket secured to the vehicle provided with an upturned portion, of an operating arm pivotally mounted at its upper end upon

the upturned portion of said supporting bracket and extended in an inclined plane at a right angle to the inclined plane of the steering post, said oscillating arm having an enlarged lower end formed into a downwardly opening elongated socket with a longitudinal slot in one side



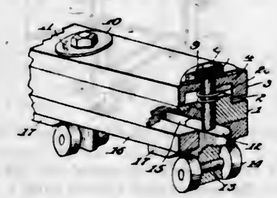
and opening upon the lower end thereof, the turned lower end of the arm carried by the steering post being extended through the slot and working in the socket of said oscillating arm, and a ball connection carried by the lower portion of said oscillating arm for connection with one of the steering rods.

1,375,888. BRACKET. EDWARD G. BAER, Orrville, Ohio, assignor to The Will-Burt Company, Orrville, Ohio, a Corporation of Ohio. Filed Apr. 3, 1920. Serial No. 370,950. 3 Claims. (Cl. 248—3.)



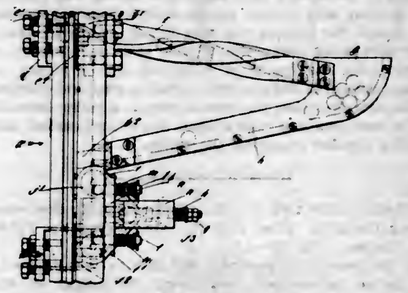
1. A bracket comprising an upright support, a longitudinally split clamping member provided with a transverse bore for the reception of said upright support, a cylindrical extension upon said clamping member, a pair of clamping blocks provided with recesses to accommodate said cylindrical extension, each of said blocks being provided with a depression, an arm located in the depressions in said blocks and a clamping screw located through said blocks and arranged to clamp the arm between the blocks, and to clamp the blocks upon the cylindrical extension of the clamping member and to clamp the split clamping member upon the upright support.

1,375,889. FEEDING MECHANISM. OREN F. BALTZLEY, Hagerstown, Md. Filed Mar. 4, 1920. Serial No. 363,346. 13 Claims. (Cl. 273.)



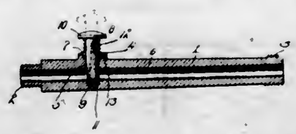
3. A feeding mechanism comprising in combination a pair of reciprocable grippers, means for closing said grippers comprising a bar having a reciprocable movement relative to the grippers, a cam on said bar, means on one of the grippers adapted to be engaged by said cam, and cam means for reciprocating said bar and cam and imparting a reciprocatory feeding motion to said grippers.

1,375,890. GRINDING OF ANTIFRICTION-ROLLERS. JOHN BASS, Bois-Colombes, France. Filed Mar. 2, 1918. Serial No. 220,003. 9 Claims. (Cl. 51—130.)



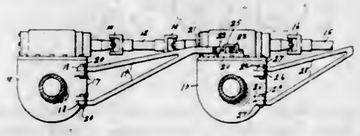
1. For grinding antifriction rollers the combination with grinding means of a rotary cage for supporting the rollers and means for automatically removing and returning the rollers to the cage with their axes reversed during each revolution of the cage.

1,375,891. HOSE-NOZZLE. BERLIN BENDER, Washington, D. C. Filed Mar. 17, 1920. Serial No. 366,535. 1 Claim. (Cl. 251—137.)



A hose nozzle formed with a substantially central bore, one end of said nozzle being formed with means for attaching the same to a hose and at its other end being provided with means for attaching a discharge-nozzle thereto, an enlargement on said nozzle intermediate of said ends, said enlargement formed with an opening communicating with said bore and having a cup-shaped recess surrounding said opening, said nozzle formed with an interiorly located recess in alinement with said opening, a headed valve slidably mounted in said opening and adapted to pass across said bore and seat in said recess when the valve is depressed to closed position and a coil spring engaging said headed valve, at one end and seated in said recess at its other end normally maintaining said valve in open position leaving said bore unobstructed.

1,375,892. TRUCK FOR MOTOR-DRIVEN VEHICLES. JOHN Q. BLACK, Nashville, Tenn. Filed Sept. 13, 1920. Serial No. 409,875. 3 Claims. (Cl. 180—22.)



1. In combination with a vehicle frame, side members pivotally engaged therewith for swinging movement in a vertical direction, columns depending from the opposite

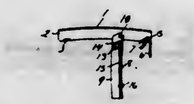
end portions of each of the side members, bearing blocks arranged in each of the columns, said column and block having relative movement in a vertical direction, driving shafts disposed through the bearing blocks, wheels mounted thereon, a differential mechanism coacting with each pair of transversely related shafts including a casing, a driving connection between the differential mechanisms, a driving means coacting with one of the differential mechanisms, means coacting with the casings of both of the differential mechanisms for holding one of said mechanisms against rotary movement, means coacting with the casing of the second differential mechanism and the frame for holding said second casing against rotary movement, the means for holding the first named casing against rotary movement comprising a pair of arms hingedly connected with the casing at vertically spaced points, said arms converging toward the second casing and continued by an arm overlying the second casing, a roller carried by the second arm and riding upon the second casing, and a holding bracket overlying the roller.

1,375,893. INFANT FOOD. FREDERICK H. BORCHERDT, Oak Park, Ill. Filed July 29, 1916. Serial No. 112,008. 4 Claims. (Cl. 99—11.)

1. The process of making a dry malt extract product for use as an infant food, comprising the boiling of wheat flour, adding malt soup extract to the boiled flour, leaving free starch in the mixture, and then drying and reducing the solution to a powder.

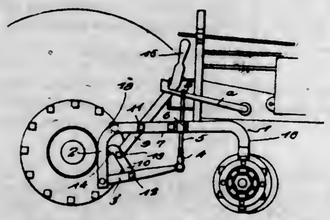
3. A malt extract product for use as an infant food, comprising a dry substance containing boiled wheat flour with free starch and malt soup extract in powdered form.

1,375,894. BELT-BUCKLE. ROY L. BOYER, Madison, Wis. Filed Mar. 2, 1921. Serial No. 449,196. 1 Claim. (Cl. 24—194.)



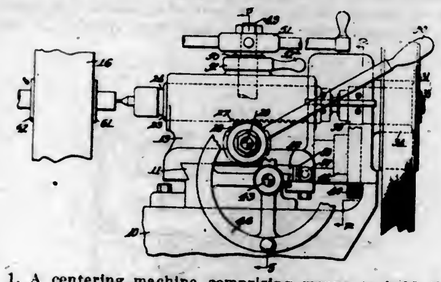
In a device of the kind described, a cover with a latch pivotally secured within the same; a spring actuated clamping bar disposed in guides through each side of said latch, said guides disposed at an acute angle to the bottom in the direction of the pivots; and a means for securing the cover to one end of a belt.

1,375,895. CLUTCH OPERATING AND HOLDING DEVICE. JOSEPH V. BRUNÉR, David City, Nebr., assignor to Edward L. Spatz, Bruno, Nebr. Filed Sept. 8, 1919. Serial No. 322,339. 6 Claims. (Cl. 74—39.)



1. An attachment of the class described comprising a frame, a lever fulcrumed to said frame, a link connected to said lever and adapted to engage the clutch pedal of a motor vehicle, and toggle links connected to said frame and said lever, one of said toggle links being provided with a handle extension.

1,375,896. CENTERING-MACHINE. GEORGE J. CARSON, Worcester, Mass. Filed Apr. 9, 1919. Serial No. 288,673. 7 Claims. (Cl. 29—26.)



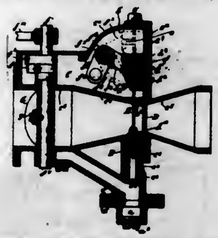
1. A centering machine comprising means to hold the stock, a cross head, a pair of spindles rotatably mounted in substantially parallel relation in said cross head, mechanical means to feed the cross head transversely of the stock, and mechanical means to feed one spindle longitudinally of the stock.

1,375,897. HEEL-FASTENING DEVICE. LEWIS A. CHAMBERLIN, De Soto, Mo. Filed Mar. 15, 1920. Serial No. 365,854. 3 Claims. (Cl. 36—34.)



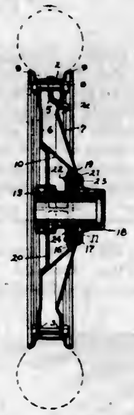
1. In combination, a shoe including a sole, an attaching plate secured to the under face of the heel attaching portion of the sole, a heel formed in its upper face with a recess receiving the plate therein, said heel being also provided with a vertical socket, the inner end of which is increased in diameter to provide a continuous shoulder, a depending stud rigidly connected to the attaching plate and extending into the socket, having a socket formed in its lower end, said stud being eccentrically disposed with respect to the periphery of the plate, and a conical spreader seated in the bottom of said first socket and extending into the socket in said stud, serving to expand the lower edge of said stud beneath the shoulder when the heel is forced against the sole.

1,375,898. CARBURETER. ERNEST F. CIGLIA and LOUIS F. PELLETIER, New York, N. Y., assignors, by mesne assignments, to E. & E. Carbureter Company, Inc., a Corporation of New York. Filed Sept. 11, 1918. Serial No. 253,558. 8 Claims. (Cl. 261—44.)



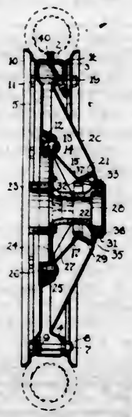
1. In a carbureter the combination of a Venturi tube constructed to converge an air stream about the axis of its throat, a fuel orifice so arranged that its axis will be transverse to the axis of said Venturi tube, a needle valve for controlling the outflow of fuel through said orifice, a valve fitted to said Venturi tube so as to operate in a plane transverse to the axis of said Venturi tube and in close proximity to said fuel orifice, a valve in the outlet portion of said Venturi tube controlling the outflow of the mixture and means whereby all three of said valves can be operated simultaneously, substantially as specified.

1,375,899. PRESSED-STEEL WHEEL. JAY S. CULP, Cleveland, Ohio, assignor to The Reliance Wheel Co., Youngstown, Ohio, a Corporation of Ohio. Filed Aug. 6, 1919. Serial No. 315,608. 8 Claims. (Cl. 301—63.)



1. A pressed steel vehicle wheel, comprising a hub having a flange, a hub cap screw-engaged with said hub, separate rear and front plates clamped with said flange and hub cap, locking members extending through said flange and both plates, and means extending through said members adapted to lock said hub-cap.

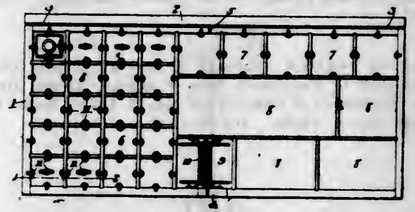
1,375,900. PRESSED-STEEL VEHICLE-WHEEL. JAY STANLY CULP, Cleveland, Ohio, assignor to The Reliance Wheel Co., Youngstown, Ohio, a Corporation of Ohio. Filed Oct. 6, 1919. Serial No. 328,670. 11 Claims. (Cl. 301—63.)



11. A vehicle wheel, comprising a hub, a pair of disks having abutting central portions provided with openings surrounded by notches and teeth, and a hub cap adapted to clamp said disks together having a locking key adapted to interlock with the teeth on both disks.

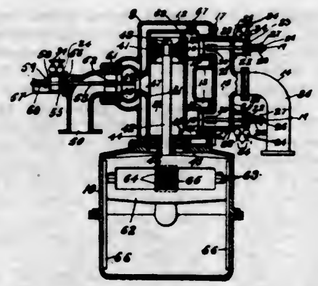
1,375,901. MEDICINE-CABINET. HAROLD L. DREW, Trinidad, Colo. Filed July 31, 1920. Serial No. 400,334. 4 Claims. (Cl. 217—52.)

1. A portable medicine cabinet or container, comprising a series of compartments or cells formed by intersecting partitions and the outside walls of the cabinet, each compartment or cell having a series of removable cushioning elements, the walls of the compartments formed



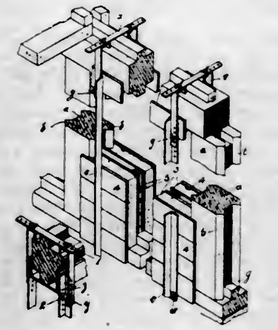
by the intersecting partitions being provided with double cushioning elements and the outside walls of the outside compartment with single cushioning elements.

1,375,902. INTERNAL-COMBUSTION ENGINE. CHARLES DRILL, St. Louis, Mo. Filed Mar. 16, 1920. Serial No. 366,268. 7 Claims. (Cl. 123—63.)



1. An internal combustion engine of the explosive type, comprising a crank case, a crank shaft, a cylinder closed at both ends mounted on said crank case, a piston located within the cylinder, a piston rod secured to the piston and extending into the crank case, means for connecting the crank shaft and piston rod, a pair of inlet ports disposed on one and the same side of the cylinder, a single exhaust port located on the opposite side of said cylinder and midway between said inlet ports, inwardly operating valves located in the intake ports, an outwardly operating valve located in the exhaust port, said valve adapted to be unseated by the pressure within the cylinder, and a manifold secured to the cylinder at the inlet ports.

1,375,903. CONCRETE AND LIKE STRUCTURE. ALFRED JOHN DUNN, Birmingham, England. Filed Dec. 23, 1918. Serial No. 267,974. 4 Claims. (Cl. 72—16.)



1. In a structure of the class described, a vertical member having a vertical fillet or fillets on one side, each

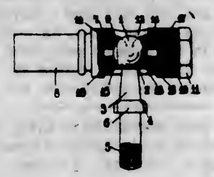
fillet being provided with oppositely beveled faces which converge to form an edge, said faces being at right angles to each other, and a molded wall member one end of which is joined to said vertical member and keyed by said fillet.

1,375,904. GLOVE. HERMAN A. GILLIAN, Toledo, Ohio, assignor to The Bacon Bros. Company, Toledo, Ohio, a Corporation of Ohio. Filed May 7, 1920. Serial No. 379,432. 1 Claim. (Cl. 2—9.)



A glove including an integral thread fabric body providing finger fronts and backs, said body serving as a lining for the glove front, a one-piece fray resisting facing for the fingers and palm over said lining, fray resisting fourchettes, means providing a folded seam at the fourchettes uniting the finger front glove body as a lining to the facing, and means providing a flat seam connection between the fourchettes and the back body portion, said fourchettes extending to render the glove seamless between the fingers with but a single thickness of material between the fingers, the body portion extending to render the glove internally seamless from the fingers to the wrist, except as to a seam from the little finger to the wrist, all seams of said glove about the fingers and palm including said fray resisting material in combination with the thread fabric of the glove body.

1,375,905. BALL-AND-SOCKET JOINT FOR LINK-WORK. ARTHUR GREEN, Coventry, England. Filed Sept. 27, 1919. Serial No. 326,911. 1 Claim. (Cl. 287—90.)



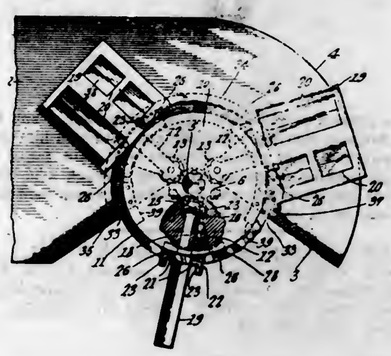
A ball and socket joint comprising a socket member provided at one end with a longitudinally bored socket having diametrically arranged apertures extending through its wall, a plug closing the open end of the socket, pads arranged in the socket and having oppositely disposed parti-spherical seats, a ball member having a spherical head arranged in the socket and engaging said seats and a shank fixed to said head and extending through one of said apertures, the aperture through which the shank extends being of sufficient length to permit a relatively large movement of the shank and of a width greater than the thickness of the shank to permit less movement of the shank in a direction at right angles to the first mentioned movement, the diameter of the spherical head being greater than the width of the last mentioned aperture to prevent the head from passing through said aperture, the other aperture being sufficiently large to permit the head to be passed through the same.

1,375,906. BALL CATCHER AND THROWER. WILLIAM HAAS, Milwaukee, Wis. Filed Mar. 9, 1920. Serial No. 364,530. 1 Claim. (Cl. 46—59.)



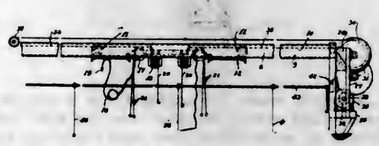
A ball catcher and thrower comprising a member having a handle portion and a head portion provided with an arcuate edge, the head portion having a longitudinally disposed slot and a circular opening communicating with the slot, a basket applied to one side of the head and consisting of a single piece of wire having side portions lying at the opposite side of the slot in the head portion and leaving the opening in the head portion uncovered.

1,375,907. PROPELLER. THEODORE L. HELSABECK, Brandford, Fla. Filed Jan. 28, 1921. Serial No. 440,704. 8 Claims. (Cl. 170—153.)



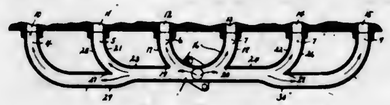
1. A propeller including spaced revoluble members, a series of paddles carried by one of the members and mounted for rotation about radial axes, means upon the members for engagement with the paddles to hold them in propelling positions, and means for successively releasing the paddles, shifting them to feathering positions, and maintaining them in feathering positions during part of the rotation of the propeller.

1,375,908. CONVEYER-SYSTEM CONTROL. ETHAN N. HESCOCK, Westfield, N. J., assignor to New Jersey Foundry & Machine Company, a Corporation of New Jersey. Filed Apr. 5, 1920. Serial No. 371,504. 12 Claims. (Cl. 212—23.)



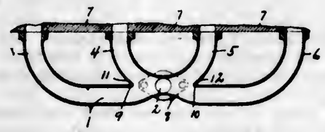
1. In combination, overhead trolley tracks; a trolley thereon; a drive means mounted at one end of said tracks and adapted to drive said trolley and provided with a switch shaft extending substantially from end to end of said tracks parallel thereto; and operating levers fixed at intervals along said switch shaft and provided with pendant flexible operating means.

1,375,909. MANIFOLD. ARTHUR HOLMES, Canton, Ohio. Filed Dec. 19, 1917. Serial No. 207,868. 9 Claims. (Cl. 123—52.)



1. An inlet manifold for multi-cylinder engines comprising a main conduit having off-set portions and branch conduits communicating with the main conduit adjacent the off-set portions, to form deflecting surfaces projecting across portions of the main conduit.

1,375,910. MANIFOLD. ARTHUR HOLMES, Canton, Ohio, assignor to The Holmes Automobile Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 28, 1920. Serial No. 377,360. 2 Claims. (Cl. 123—52.)



1. An inlet manifold for multi-cylinder engines consisting of four cylinders arranged in a row and adapted to be supplied from one fuel source, comprising a main conduit and four branch conduits in communication therewith, a carbureter branch connected to substantially the central portion of the main conduit, said main conduit having its central portion off-set in a direction toward the outlet of the said branches a distance approximately one-half the diameter of said main conduit, the line of division between the main conduit and the branches for the second and third cylinders being substantially on the extended center line of said off-set central portion of the main conduit, said line of division being adapted to give substantially equal qualitative distribution of fuel to all the cylinders.

1,375,911. BACKBAND-HOOK. ARTHUR A. HOPSON, Tiptonville, Tenn. Filed May 20, 1920. Serial No. 382,871. 2 Claims. (Cl. 54—55.)



1. An improved back band hook composed of sheet metal and comprising a base plate having a reduced hook at one end, a keeper for the hook, a casing bent out of the plane of said base plate and adapted to receive the back band in a looped condition, and a wedge bar adapted to be driven endwise through the casing and through the looped back band and constructed and arranged to bind the latter against the walls of the casing, substantially as described.

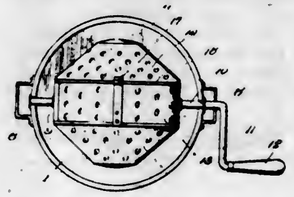
1,375,912. COMBINATION DUPLICATE OR SINGLE CANE OR STICK. JOHN T. HUDDLE, Washington, D. C. Filed Mar. 10, 1921. Serial No. 451,419. 3 Claims. (Cl. 135—45.)

2. A combination duplicate or single cane or stick comprising an inner stick having a straight section and a curved gripping end formed in the arc of a circle, an outer hollow straight stick adapted to surround and receive the straight section of the inner stick, a curved hollow handle having a bore of the same curvature, diameter and length as the curved gripping end of the



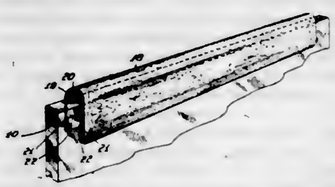
inner stick and adapted to slip over and snugly surround said curved gripping end, and means for connecting one end of the hollow handle with one end of the outer hollow stick.

1,375,913. STEAM WASHING-MACHINE. JOHN KASHINSKY, Hoboken, N. J., assignor to New Jersey Can Company, Weehawken, N. J., a Corporation of New Jersey. Filed July 28, 1919. Serial No. 313,748. 1 Claim. (Cl. 68—18.)



A washing machine comprising a receptacle; a perforated horizontally arranged drum disposed within the receptacle and inclusive of an intermediate annular portion, an end member rigidly secured to said annular portion and a hinged end member carried by said annular portion, said drum being provided with means for locking said hinged end member; trunnions extending radially from opposite sides of said annular portion and rotatably passing through said receptacle, one of said trunnions being provided with an operating handle; and a cover applied to said receptacle, the hinged end member of said drum being adapted to rest upon the upper end of said receptacle when open.

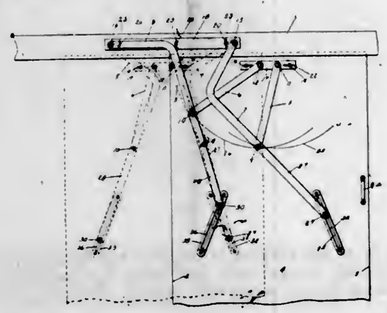
1,375,914. PROTECTING-STRIP FOR GLASS WINDOWS OR THE LIKE. EUGENE U. KIMBARK, Evanston, Ill. Filed Mar. 20, 1920. Serial No. 367,304. 4 Claims. (Cl. 20—40.)



1. A protecting strip of the class described adapted to fit over the exposed edge of a glass window pane comprising

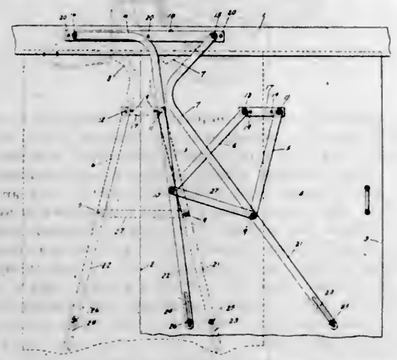
a metal strip U-shaped in cross-section and having a flexible covering material on the exterior thereof which extends partially into the interior thereby to increase the friction of said strip on the glass.

1,375,915. SLIDING-DOOR HANGER. ANDREW F. LARSON, Portland, Oreg., assignor to The Gravity Door Hanger Company, a Corporation of Oregon. Filed July 25, 1917. Serial No. 182,620. 11 Claims. (Cl. 16—156.)



1. A sliding door supporting device, comprising two long levers pivotally connected at one end to a framing, two short levers pivotally connected at one end to the opposite sides of the vertical center of the door, and at their opposite ends to intermediate portions of the first mentioned levers, and guiding means for the free ends of each of the said first mentioned levers.

1,375,916. SLIDING-DOOR HANGER. ANDREW F. LARSON, Portland, Oreg., assignor to The Gravity Door Hanger Company, a Corporation of Oregon. Filed July 25, 1917. Serial No. 182,621. 5 Claims. (Cl. 16—156.)



1. The combination with a door and its supporting frame piece, of two pairs of reflexed door supporting members of unequal lengths, the two members of each pair being pivotally united at their points of reflexion, the free ends of the short members being pivotally connected to the door on opposite sides of the vertical center thereof, the corresponding ends of the long members being pivotally connected to the framing, guiding means for the opposite ends of the long members, and a transversely extending link pivotally connecting the pairs of members at their respective points of reflexion.

1,375,917. NURSING-BOTTLE. LOUIE T. LA PAUGH, Utica, N. Y., assignor of one-fourth to Joseph W. Shea and one-fourth to Elizabeth C. Shea, Utica, N. Y. Filed Feb. 25, 1920. Serial No. 361,094. 5 Claims. (Cl. 248—65.)

1. In a device of the class described, the combination of a tape supported in substantially horizontal position, a nursing bottle, means on said bottle for adjustably holding the same in direct contact with said tape whereby said bottle may be held in predetermined position at any point between the ends of said tape.



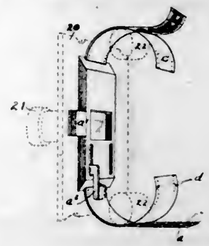
2. In a device of the class described, the combination of a tape supported in substantially horizontal position, a nursing bottle, means connecting said bottle and tape for adjustably holding a portion of said tape in peripheral contact with said bottle, whereby said bottle may be held in predetermined position at any point between the ends of said tape.

3. In a device of the class described comprising in combination a nursing bottle having circumferentially disposed members forming band retaining guides, a substantially horizontally disposed band passing through said guides and about the intermediate periphery of said bottle whereby said bottle may be held in predetermined position on said band.

4. In a device of the class described, the combination of a flexible tape adapted to be supported in substantially horizontal position, a nursing bottle, means on said bottle connected to said tape for adjustably holding the bottle in direct contact with said tape for normally supporting said bottle in inclined position with the nipple uppermost, said means permitting said bottle to be held in predetermined position at any point between the ends thereof.

5. In a nursing bottle, oppositely disposed members formed integral therewith, a space formed between said members and the adjacent surface of said bottle, openings through said members, and a tape adapted to be inserted through said openings, whereby the bottle may be held in suspended position.

1,375,918. METHOD OF MAKING ANIMATED-CARTOON MOTION-PICTURE FILMS. CARL F. LEDERER, Rochester, N. Y., assignor to G. Willard Rich, trustee, Rochester, N. Y. Filed June 3, 1918. Serial No. 238,030. 22 Claims. (Cl. 88—16.)

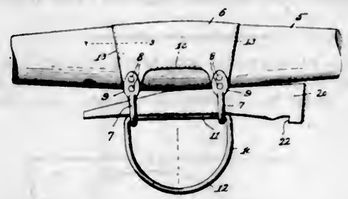


1. The method of making pictures consisting in first preparing two pictures, one in outline, the other silhouetted, then photographing the latter upon a transparent support and developing said photograph, to obtain a stencil of the picture and subsequently photographing the outline picture through said stencil.

1,375,919. METHOD OF DYEING. AUGUST LENDLE, Forest Hills, N. Y., assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 9, 1920. Serial No. 409,247. 3 Claims. (Cl. 8—5.)

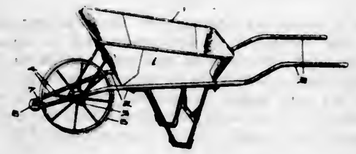
3. The method of dyeing consisting of dyeing fabric with a basic color, and subsequently subjecting the same to treatment with a complex acid containing phosphorus and tungsten.

1,375,920. NECK-YOKE CENTER. JOHN N. LINDQUIST, Marquette, Mich. Filed Apr. 13, 1920. Serial No. 373,491. 4 Claims. (Cl. 278—121.)



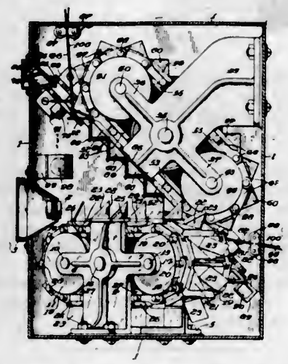
1. In a neck-yoke, a center embodying a collar partially surrounding the yoke arm and embedded therein throughout its area by pressure, transverse loops connecting opposite corners of said collar, and a pole-ring suspended from said transverse loops and provided with a straight bar extending from one loop to the other.

1,375,921. WHEELBARROW-REINFORCEMENT. HENRY J. LUSCHEN, Toledo, Ohio, assignor to The United States Malleable Iron Co., Toledo, Ohio, a Corporation of Ohio. Filed Mar. 20, 1920. Serial No. 367,349. 1 Claim. (Cl. 280—52.)



The combination with a pipe frame wheelbarrow, said barrow having a wheel, a hopper, and a frame provided with a return bend on the side of the wheel away from the hopper, of a reinforcement member of U-shape, channeled on the inner side to seat about the bend of the frame, said member being provided with integral lugs bendable into frame engaging position to mount the member on the outer side of the bend of the frame.

1,375,922. OPTICAL APPARATUS AND METHOD OF USING THE SAME. EDMOND H. LYSLE, New York, N. Y. Filed Nov. 27, 1914. Serial No. 874,152. 45 Claims. (Cl. 88—16.8.)

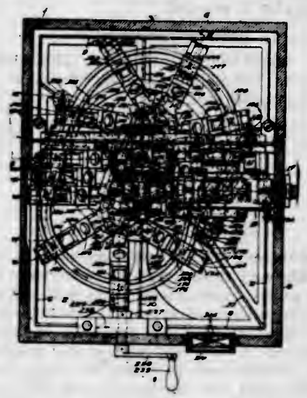


1. In an optical apparatus, the combination with a fixed lens system, a series of reflectors, and a continuous film, of means to move said series of reflectors continuously across the principal axis of said lens system and at an angle of 45 degrees thereto, and means to move said film continuously in the same general direction as that in and at the same linear speed as that at which said series of reflectors is moved but in a line intersecting the principal axis of the lens at an angle and in a plane normal to the plane coincident with the principal axis of the lens and the line of travel of said reflectors.

18. In an optical apparatus, a film carrier having a stepped series of operative surfaces arranged in parallel planes, and means to cause a continuous photographic medium to conform to said surfaces, a fixed lens system, and means for continuously moving said carrier through the field of said lens.

36. In a continuous motion picture machine, the combination of an objective, a record carrying a series of impressions or pictures, means to move said record continuously through the field of said objective, reflecting means to transmit said pictures to said objective and thence to a fixed focused position, and means to carry said reflecting means with and across said record in a diagonal line.

1,375,923. OPTICAL DEVICE. EDMOND H. LYSLE, New York, N. Y. Filed Jan. 22, 1916. Serial No. 73,642. 16 Claims. (Cl. 88—16.8.)



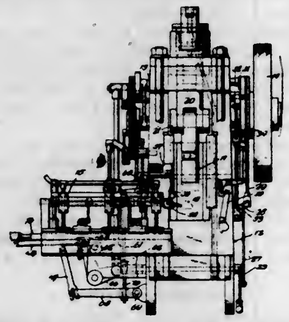
1. In an optical apparatus, the combination with a lens system for directing rays of light in a fixed direction, of a continuously movable photographic medium and compensating means to maintain successive portions of said medium consecutively in optically stationary relationship to said lens system while said medium is moving, said compensating means comprising a reflecting element continuously movable to change the direction of rays of light from a direction normal to said medium to a second direction, and a reflecting element continuously movable with respect to said first mentioned element to change the direction of rays of light from said second direction to a third direction and to change the direction of said rays of light from said third direction to said fixed direction.

9. In an optical apparatus, the combination with means for directing rays of light in a given path, of means for moving successive portions of an image strip consecutively through a given plane and in a given direction, and compensating means to maintain said successive portions consecutively in optically stationary relationship to said first mentioned means as said portions are moved consecutively through said plane, said compensating means including an element arranged to be moved in a plane parallel to said first mentioned plane and in a direction extending obliquely with respect to said strip.

1,375,924. AUTOMATIC DIE-PRESS. CHARLES D. MCDONALD, Chicago, Ill. Filed July 9, 1918. Serial No. 244,041. 4 Claims. (Cl. 192—116.)

1. In a die-press having automatic power driven feed, die and ejector mechanism, and having a main operating shaft and a clutch mechanism for driving said shaft, the combination with said shaft, of a brake, clutch actuating

mechanism, and brake actuating mechanism, overload connections between all of said automatic devices, and said brake and clutch mechanisms for actuating said mecha-



nisms, the arrangement being such that the brake will be set before the clutch is released and will be opened before the clutch is engaged.

1,375,925. FLUE-BLOCK. JOHN J. MCKEONE, Washington, Iowa. Filed Aug. 2, 1920. Serial No. 400,816. 1 Claim. (Cl. 108—26.)



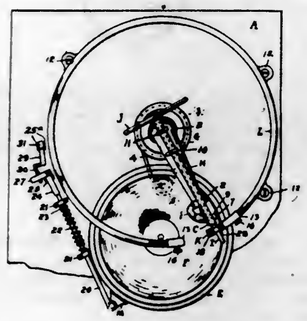
The combination with a block provided in the outer face of a side wall thereof with a transversely extending horizontal groove, said groove being enlarged as to its inner portion, of a flashing member comprising a body portion provided at its upper end with an angular extension adapted to enter said groove, said angular extension being provided upon its inner end with a hollow roll of larger size than said groove and adapted to enter the enlargement of said groove, said roll being provided with a longitudinally extending opening communicating with the center thereof, thereby permitting the insertion therein of a packing medium, said roll preventing removal of said flashing through said groove.

1,375,926. SPARK-PLUG. JOHN WM. NELSON, Norwood, Mass. Filed Mar. 19, 1919. Serial No. 283,463. 1 Claim. (Cl. 123—169.)



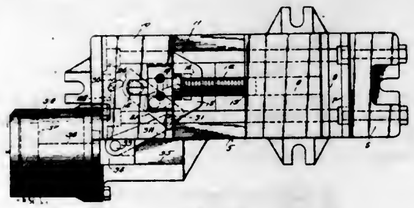
A spark plug comprising a body, a sleeve detachably secured in said body and projecting beyond the outer end thereof, an insulator extending through the sleeve into the body and terminating in substantially the same plane with the inner end of said body and fully closing the inner end of the body, the outer end of the insulator projects a short distance beyond the outer end of the sleeve, an annular shoulder formed on the insulator adjacent its outer end and engaged by the outer end of the sleeve, a cap threaded on said sleeve and engaging the flange for detachably securing the insulator in the body and sleeve, a central electrode extending through the insulator, a second electrode embedded in said insulator and having one end spaced from the central electrode to form a spark gap and its other end extending through the side face of the insulator and disposed angularly and against the sleeve.

1,375,927. REPEATING-PHONOGRAPH MECHANISM. JOSEPH M. NOEL, Portage borough, Pa. Filed Jan. 2, 1920. Serial No. 348,870. 8 Claims. (Cl. 274—15.)



1. In a repeating phonograph, the combination of a sound arm rotatable on a vertical axis, a sound box mounted on the free end of said arm and movable on a horizontal axis, a sound groove engaging member mounted on said box, and means for rotating said sound arm with the sound box in an elevated position, said means including a part interrupted over the playing path of the sound box.

1,375,928. VISE. JOHN A. OLSON, Chicago, Ill. Filed Sept. 20, 1919. Serial No. 325,244. 5 Claims. (Cl. 90—60.)

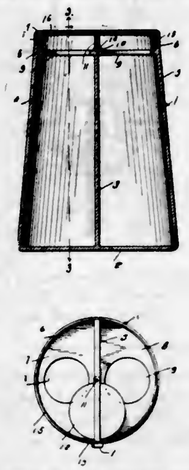


1. In a machine vise, the combination of a body portion having a fixed jaw, a slidable jaw mounted on said body, a slide mounted on said body adjacent to the slidable jaw, adjusting means between the slide and slidable jaw, a lever having a movable pivot connection with the body, an arm pivoted to said lever and engaging with the slide, an arm pivotally mounted in the body adjacent to the pivoted end of said lever and adapted to engage with the corresponding end of the lever to form a toggle when the elver has reached a predetermined position, and means for actuating said lever, the arrangement being such that when the lever approaches alinement with the center of the body, the arms will co-act with the lever to force the slide forwardly.

1,375,929. CONDIMENT-HOLDER. SHAFEH PETERS, Paris, Tex., assignor of one-half to Constantine M. Haddad, Tyler, Tex. Filed Jan. 23, 1919. Serial No. 272,754. 1 Claim. (Cl. 65—45.)

A condiment holder comprising a body having its upper end open and screw threaded, a partition formed in said

body to provide a pair of main compartments and said partition terminating in a plane with the upper edge of said body, horizontal partitions formed on the first named partition and wall of said body to provide auxiliary compartments and said horizontal partitions having openings to communicate the main and auxiliary compartments, a perforated cover threaded to the upper end of

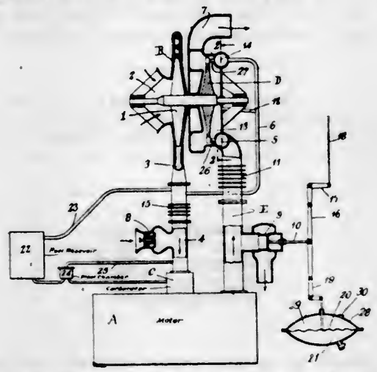


said body and bearing against the upper end of the first named partition, said first named partition and body each having a slot above the horizontal partitions, and a closure element pivoted in the slot of the first named partition and extending through the slot of the body so that the same can be moved from one auxiliary compartment to the other for closing and opening the openings between the main and auxiliary compartments.

1,375,930. PROCESS OF TREATING BRASS SCRAP. OLIVER C. RALSTON, Niagara Falls, N. Y. Filed Jan. 2, 1920. Serial No. 348,782. 3 Claims. (Cl. 75—18.)

1. Process of treating copper-bearing alloys comprising reacting thereon with an aqueous solution containing a solvent for metals electropositive to copper, thereby progressively increasing the copper content of the undissolved residue, and arresting the reaction when the desired copper content in said residue is attained.

1,375,931. PERTAINING TO INTERNAL-COMBUSTION AIRCRAFT-MOTORS. AUGUSTE CAMILLE EDMOND RATEAU, Paris, France. Filed Nov. 6, 1917. Serial No. 200,514. 21 Claims. (Cl. 60—13.)



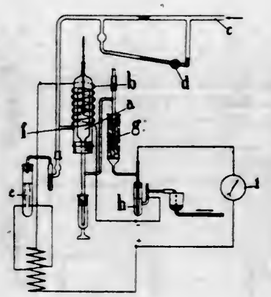
1. The method of compensating for changes in atmospheric pressure resulting from changes in altitude in the charge forming operation of an internal combustion aircraft motor, which consists in expanding the exhaust motor gases into the atmosphere to thereby develop kinetic energy in amount increasing as the atmospheric pressure decreases and employing this energy in compressing atmospheric air and delivering it to the air inlet of the motor at a pressure exceeding that of the atmosphere at the aircraft altitude.

21. In a combustion motor, a turbine adapted to be driven by the exhaust gases from the motor, means whereby said gases may be discharged without driving the turbine, an air compressor driven by the turbine and means for cooling the turbine.

1,375,932. PURIFICATION OF HYDROGEN. EAIC KEIGHTLEY RIDEAL, London, and HUGH STOTT TAYLOR, St. Helens, England. Filed Feb. 11, 1919. Serial No. 276,373. 4 Claims. (Cl. 183—116.)

1. A process of purifying hydrogen containing carbon monoxid as an impurity which comprises adding steam to such hydrogen, passing the mixture in contact with a catalyst at such a temperature as to convert the major part of the carbon monoxid into carbon dioxid, then adding an oxygen-containing gas and passing the mixture in contact with a catalyst at a temperature at which oxygen will combine with carbon monoxid in preference to hydrogen.

1,375,933. APPARATUS AND PROCESS FOR GAS ANALYSIS. ERIC KEIGHTLEY RIDEAL and HUGH S. TAYLOR, London, England. Filed Mar. 5, 1919. Serial No. 280,774. 5 Claims. (Cl. 23—3.)

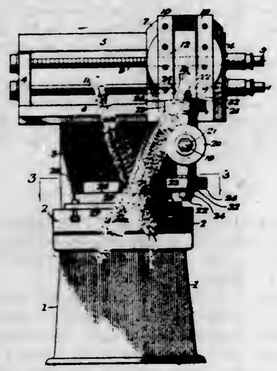


1. A process of analyzing gases, which comprises passing the gas being tested, in contact with another substance capable of reacting thereupon, in contact with a catalyst capable of inducing reaction between such gas being tested and such other substance, bringing the gas containing the reaction product into contact with an absorbent of which the electrical conductivity will be varied by an amount dependent upon the amount of such reaction product, passing an electric current of known voltage through the said absorbent, and comparing the amperage of the current with that which would be produced by passing a current of like voltage under like conditions through the untreated absorbent.

1,375,934. ANGLE-BENDING MACHINE. SAMUEL D. RONALD, San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa., a Corporation of Delaware. Filed Dec. 4, 1918. Serial No. 265,199. 3 Claims. (Cl. 153—56.)

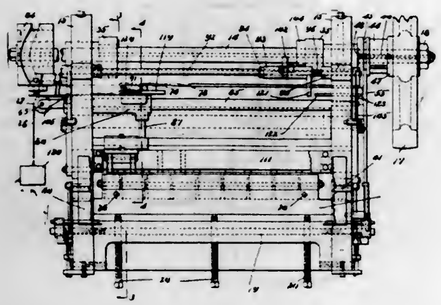
1. In a bending machine, a rotary table, a bending die thereon, a slide supported above said die, means for adjusting said slide vertically and horizontally, a shaft project-

ing laterally from said slide, a tool head rotatably mounted on said shaft, bending rolls rotatably mounted on the ends



of said head, and means on said tool head shaft for effecting the locking of said tool head and the rollers thereon in the desired position.

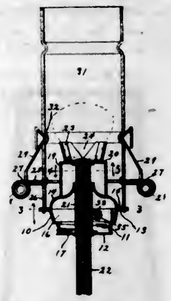
1,375,935. LEATHER-WORKING MACHINE. CHARLES ADRIAN SAWYER, Jr., Newton, Mass. Filed May 8, 1920. Serial No. 379,731. 3 Claims. (Cl. 164—24.)



1. In a leather working machine, the combination of a frame, a pair of cutters mounted for reciprocating and sliding movement therein, a rotatable shaft, means operated thereby for causing a reciprocating and sliding movement of the pair of cutters, a source of power and a combined operating and guard plate slidable with respect to said frame and operating to connect said shaft with the source of power, whereby an intermittent reciprocating and sliding movement is imparted to said cutters and the operator is simultaneously guarded from injury by the cutters.

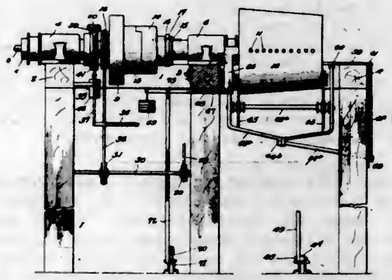
1,375,936. LAMP-BURNER. DAVID H. SCHROEDER, Slater, Iowa. Filed Jan. 12, 1920. Serial No. 350,942. 5 Claims. (Cl. 67—53.)

2. A lamp burner, comprising a casing forming a lower air chamber, a cylindrical casing mounted on the first casing and providing an upper air chamber, a wick tube mounted through the lower chamber and communicating with the upper chamber, and a shield mounted on the upper casing, the top of the upper casing being spaced above the wick tube and formed with an aperture opening to said shield and in alinement with said wick tube, said upper casing being wholly imperforate except for the



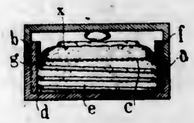
wick openings, whereby a dead-air space is provided around the upper portion of the wick when said wick is in place, said wick passing uninclosed through said dead-air space.

1,375,937. APPARATUS FOR FORMING BUCKET-BODIES. ALEXANDER H. SEARLE and OSCAR DURYEA, Brooklyn, N. Y. Filed June 22, 1920. Serial No. 390,953. 9 Claims. (Cl. 93—39.)



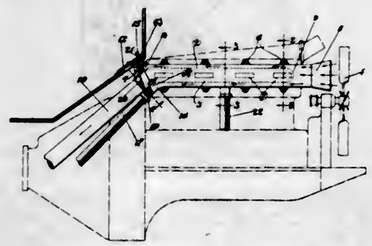
1. The combination of a mandrel, a shaft carrying the mandrel, a driving pulley loose on the shaft, a clutch slidable on the shaft but constrained to rotate therewith and adapted to engage the driving pulley, said clutch being provided with a longitudinal peripheral recess opening through its end remote from the driving pulley, means for shifting the clutch, and a fixed member bearing against the end of the clutch and preventing endwise movement of the same except when the recess is alined with said member and the mandrel is in a predetermined position.

1,375,938. BOX OR RECEPTACLE FOR FACE-POWDER. HARRY FRANK SLACK, Hove, England, assignor to Stanley Septimus Booty, Ealing, London, England. Filed May 31, 1919. Serial No. 301,134. 9 Claims. (Cl. 132—82.)



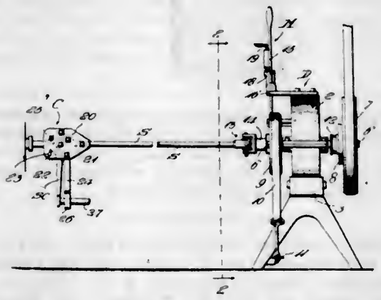
8. A receptacle for face powder comprising a box, a lid therefor, a sieve within the box, means associated with the sieve adapted to prevent the leakage of powder between the edge thereof and the wall of the box, a puff device between the sieve and the lid, said puff device being dimensioned to cover the open portion of the sieve, resilient means adapted to force the sieve against the puff and the puff against the lid to prevent undesired discharge of powder through said sieve, and means adapted to limit the motion of the sieve in an upward direction.

1,375,939. AUTOMOBILE-HEATING DEVICE. WILLIAM J. SLINGER, St. Louis, Mo. Filed Aug. 16, 1920. Serial No. 403,697. 4 Claims. (Cl. 237—12.3.)



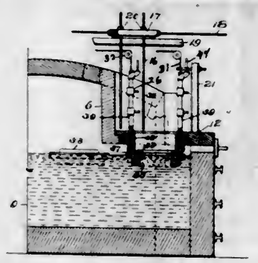
1. The combination with an automobile motor, of a casting including an exhaust manifold, a jacket cast integral with and inclosing the exhaust manifold and spaced therefrom leaving a space within the jacket and around the manifold, flat portions on the jacket bearing flat against the motor, passages from the manifold through said flat portions and out of communication with the spaces between the manifold and the jacket, a passage from the rear end of the jacket for discharging air from said space in proximity to the seating portion of the automobile, and a passage from the rear end of the jacket for discharging the air from said space in a direction away from the seating portion of the automobile.

1,375,940. MOTOR-CRANKING DEVICE. WALTER BERTON SMITH, Sioux City, Iowa, assignor to Smith-Foote Co., Sioux City, Iowa, a Corporation. Filed Feb. 13, 1919. Serial No. 276,825. 2 Claims. (Cl. 74—7.)



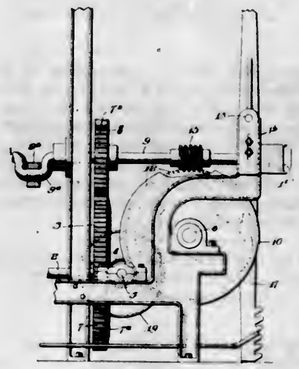
1. In a motor-spinning device for automobile motors, a shaft and means for driving it by power, both said shaft and said driving means being relatively stationary with respect to the automobile, a pair of plates secured to opposite sides of said shaft, at one end thereof, and adapted to straddle the angle of the crank, and a bar secured at one end between said plates and shaped for contact with said angle to prevent lateral movement of the shaft in one direction, and means to prevent such movement in the other direction, the aforesaid bar extending laterally and being adapted to engage an off-center part of the crank.

1,375,941. GLASS-TANK. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Filed Mar. 31, 1917. Serial No. 158,968. 18 Claims. (Cl. 49—56.)



11. In a glass drawing tank, in combination, a drawing station, a floating drawing ring, a flange projecting up from the top of said drawing ring, and a water-cooled ring-holding means adapted to engage said ring on its top without the flange to hold it in drawing position while the flange protects the glass within the ring from the chilling effect of said water-cooled ring-holding means.

1,375,942. DRIVING MECHANISM FOR LOOMS. JAMES H. STAIRS, Philadelphia, Pa., assignor to Home-Crest Mills Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 6, 1920. Serial No. 379,208. 4 Claims. (Cl. 139—18.)

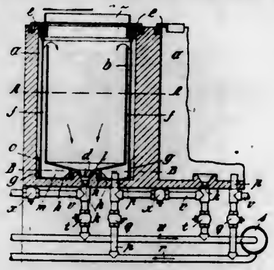


1. The combination in a loom comprising a power shaft and a series of harness lever operating cams, a driven main shaft, connecting actuating gearing between said shafts, a lay operating shaft carrying a worm gear, connecting actuating gearing between said last mentioned shaft and said driven main shaft, a shaft on which said cams are fixedly mounted, and a worm wheel on said cam shaft meshing with said worm gear to directly operate said cam shaft.

1,375,943. FURNACE SYSTEM FOR DRY DISTILLATION. THOM MELCHER UNGNEN VON POST, Stäket, Sweden. Filed Oct. 16, 1919. Serial No. 331,214. 7 Claims. (Cl. 202—9.)

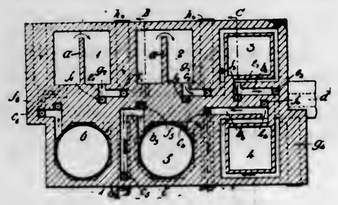
1. In a furnace system for dry distillation, a closed chamber, a retort removably located in said chamber and provided with a conduit communicating with an inlet at the bottom of said chamber and adapted for leading gases from said inlet into the retort at the top of the same, the retort being also at its bottom provided with an outlet, communicating with an outlet pipe opening into

the bottom of said chamber, means at the bottom of the chamber by which the outlet and the inlet at the bottom



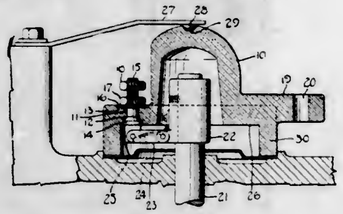
of said chamber are gas-tightly separated from each other, and a condenser communicating with said inlet and outlet.

1,375,944. CARBONIZING-FURNACE. THOM MELCHER UNGERN VON POST, Stäket, Sweden. Filed Oct. 16, 1919. Serial No. 331,215. 4 Claims. (Cl. 202—9.)



1. A carbonizing furnace, comprising a plurality of retort chambers arranged in series in two rows, a smoke flue between said rows, each of said chambers communicating by means of a damper-controlled conduit with said smoke flue and with the immediately succeeding chamber, a hearth conduit for each chamber, one located between each pair of adjacent chambers, and closable from without, said chambers being also in communication with their respective hearth conduits.

1,375,945. COMMUTATOR. CLARENCE H. WALKER, Larchmont, N. Y. Filed Oct. 30, 1919. Serial No. 334,424. 1 Claim. (Cl. 200—19.)



An ignition commutator for internal combustion motors, comprising a contact member carrying shell of ready molded porcelain, and metallic contact members secured in place therein, the race for the rotating member of the commutator being of porcelain and integral with the material of the shell, whereby the shell serves as its own insulator and the race is substantially as wear resisting as the metallic contact members.

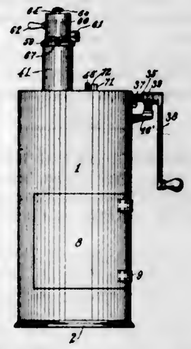
1,375,946. SAFETY-SWITCH. HERBERT P. WHITE, Philadelphia, Pa. Filed Apr. 21, 1920. Serial No. 375,512. 6 Claims. (Cl. 200—3.)

5. In a device of the character stated, in combination with a casing,—a carrying plate through which a driving shaft extends and which is provided with an upper handle stop and a lower handle stop,—an operating handle exterior of the casing, fixed on the driving shaft,—a driving shaft housed in a bearing in the casing and carrying plates,—an operating handle provided with an abutment



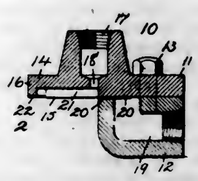
stop,—a swinging dog formed with a stop shoulder having a contact face and with a pawl stop,—a pawl pivoted to said dog, formed with a pawl shoulder and controlling the dog with relation to its bearing,—and a stop for the pawl.

1,375,947. DISPENSING-MACHINE. HARRY W. WILLIAMS, Dayton, Ohio, assignor to The Superior Tool Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 8, 1920. Serial No. 363,940. 11 Claims. (Cl. 221—102.)



1. In a machine of the character specified, a rotatable platform adapted to support a container from which material is discharged, and a gear pump engaging said material in the mouth of the container to remove the same as the container rotates with the platform.

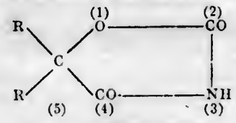
1,375,948. BURNER FOR FLUID FUEL. AMYUIT L. WILSON, Elizabeth, N. J., assignor to The Petroleum Combustion Company, Elizabeth, N. J. Filed Oct. 29, 1919. Serial No. 334,173. 7 Claims. (Cl. 158—78.)



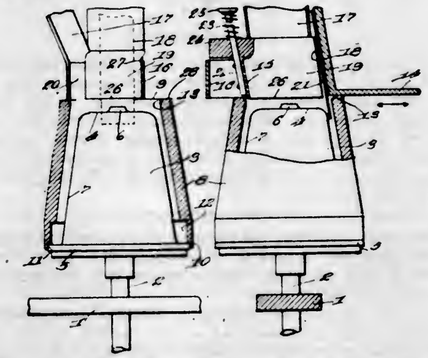
1. A burner for fluid fuel comprising a casing having a chamber with an open bottom, said chamber having a restricted supply orifice, and means for projecting a film of fluid under pressure across the bottom of said chamber, whereby said film supports liquid in said chamber and carries a quantity from the bottom thereof.

1,375,949. PROCESS FOR THE PREPARATION OF TWICE-SUBSTITUTED 2-4-DIKETO-TETRAHYDRO-OXAZOLS. JEAN ALTWEGG and DAVID EBIN, Lyon, France, assignors to Societe Chimique Des Usines Du Rhone, (anciennement Gilliard P. Mennet et Cartier), Paris, France. Filed July 8, 1920. Serial No. 394,606. 4 Claims. (Cl. 23—24.)

4. The in position 5 twice substituted derivatives of 2-4-diketo-tetra-hydro-oxazol having the formula



1,375,950. METHOD AND APPARATUS OF FORMING CONCRETE POTS. CLAUDE G. BEWLEY, Spokane, Wash., assignor to Spokane Concrete Flower Pot Machine Co. Inc., a Corporation of Washington. Filed Mar. 15, 1920. Serial No. 365,732. 19 Claims. (Cl. 25—27.)



1. In a machine for molding concrete or like pots in an inverted position, inverted male and female mold members rotatable in unison, mechanism for delivering the material between said members, means for forming the wall of the pot while said members are rotating, and means for forming the bottom of the pot.

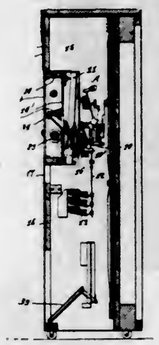
1,375,951. EMBROIDERY. FRANCOIS CROZET, Condrieu, France. Filed Dec. 29, 1917. Serial No. 209,472. 5 Claims. (Cl. 112—266.)



1. A stitch or seam applied to a fabric and comprising a core, a lacing thread wound spirally therearound, and a stitching thread disposed entirely at the back of the fabric and formed with loops with which the lacing thread is engaged at each turn.

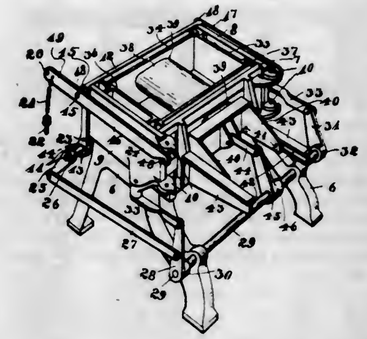
1,375,952. MUSICAL INSTRUMENT. GOTTFRIED DANIELSON, Weehawken, N. J. Filed Feb. 12, 1920. Serial No. 358,228. 10 Claims. (Cl. 84—30.)

1. In a musical instrument adapted for manual or mechanical operation as desired, an action, a mechanical device for operating said action, comprising a relatively fixed section for engaging said action, and complementary section movable into and out of operative relation to the first-named section, and means for operating the action manually, said means being connected to move in unison



with said movable section of the mechanical playing device in such a manner as to bring the said manual means into operative position when the movable section of the mechanical playing device is moved out of operative position, and vice versa.

1,375,953. CONCRETE-BLOCK-MAKING MACHINE. ANTONY DE CICILIANI, Los Angeles, Calif. Filed Nov. 27, 1920. Serial No. 426,832. 7 Claims. (Cl. 25—41.)

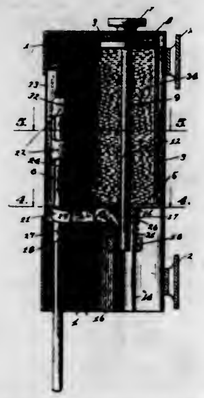


1. In a block-making machine, in combination with opening doors, a lever mounted on one of the doors having means for engaging the lever to the door so as to use the hinge of the door for the operating pivot of the lever in operating the device.

1,375,954. DENTIFRICE-DISPENSING DEVICE. CHARLES DOYLE, San Francisco, Calif. Filed Jan. 28, 1921. Serial No. 440,792. 15 Claims. (Cl. 132—84.)

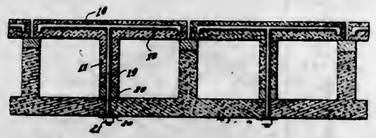
15. A tooth paste dispensing device comprising a housing adapted for mounting upon a wall, said housing being open at one end thereof; a receptacle provided with a dispensing vent removably mounted within said housing; tooth brush engaging means slidably mounted within the housing adjacent the receptacle to receive and hold a tooth brush adjacent said vent; a plunger mounted within the receptacle; a stem secured to the plunger and extending outwardly beyond the receptacle; ratchet teeth formed upon said stem; and a pawl operatively mounted upon the brush engaging means and arranged to engage the ratchet teeth for operating the plunger to dispense tooth paste to the brush when said brush is withdrawn from the brush engaging means; and adjustable means for limiting the movement of the brush engaging means when the brush is being withdrawn therefrom to regulate the quantity of paste dispensed upon said brush; and means connected

to the brush engaging means for normally closing the dispensing vent, and to open said vent when said brush engaging means is operated by the withdrawal of the



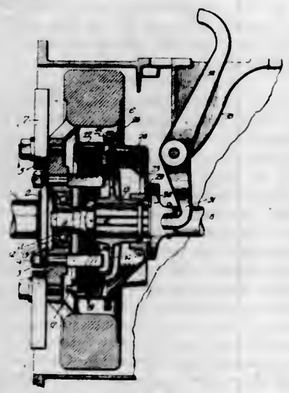
brush therefrom to dispense paste from the receptacle; and means for returning the brush engaging means to its normal position when the brush has been removed therefrom.

1,375,955. BUILDING CONSTRUCTION. LEONARD L. ELDRIDGE, Dallas, Tex. Filed Apr. 19, 1920. Serial No. 375,027. 2 Claims. (Cl. 72—16.)



1. In a building construction, a hollow wall including a plurality of oppositely arranged slabs formed T-shaped in cross section, T-shaped reinforcing metallic elements embedded in the slabs in one set and extending through the transverse portions thereof and through the other set, and clamping devices carried by the ends of the reinforcing elements and engaging the outer surface of such other set.

1,375,956. CLUTCH. HENRY FORD, Dearborn, Mich. Filed Apr. 15, 1918. Serial No. 228,589. 9 Claims. (Cl. 192—69.)

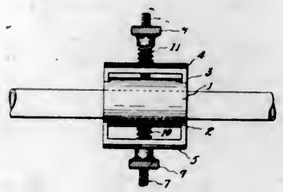


1. The combination of a driven fly wheel, a plurality of clutch plates supported therein, a clutch housing movable in said fly wheel, a plurality of clutch plates carried by said clutch housing adapted to frictionally engage the clutch plates of said fly wheel, and means adapted for shifting said clutch housing.

1,375,957. PROCESS OF CONCENTRATING ORES BY FLOTATION. BARNETT L. GEORGE, Salt Lake City, Utah. Filed Aug. 9, 1918. Serial No. 249,059. 4 Claims. (Cl. 83—85.)

1. The process of concentrating ores, which comprises adding to an ore pulp an oil having an organic acid reaction and a quantity of zinc sulfate, and then subjecting the resulting mixture to a flotation operation.

1,375,958. GLASS-CUTTER. OLAF B. GERDIN, Seattle, Wash. Filed Jan. 21, 1920. Serial No. 353,078. 3 Claims. (Cl. 49—52.)

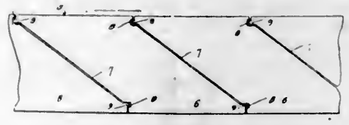


1. A tube cutting device comprising a cylindrical member, adapted to receive and to be revolved about a tube to be cut, guide members adjustably mounted on the said cylindrical member adapted to engage the tube and to retain the said body in parallel relation thereto, cutting disks radially adjustable against the tube and yieldable means for urging said cutting disks against the tube during a cutting operation.

1,375,959. PROCESS OF PRODUCING CONDENSATION PRODUCTS. BYRON B. GOLDSMITH, New York, N. Y. Filed July 28, 1917. Serial No. 183,320. 10 Claims. (Cl. 106—22.)

1. The process of forming a resinous condensation product from a phenol and a body having a reacting methylene group which consists in producing the initial condensation product in solution and applying heat until precipitation takes place.

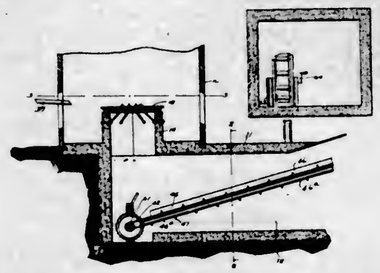
1,375,960. HIGHWAY CONSTRUCTION. HERBERT C. HARRIS, Spokane, Wash. Filed Apr. 15, 1919. Serial No. 290,266. 1 Claim. (Cl. 94—11.)



A paving section in the form of a parallelogram having edge side and end edges at two of its diagonal corners intersecting each other at acuminate angles and its edges at the other two diagonal corners intersecting each other at obtuse angle, the section being provided at the obtuse angle portion with notches and provided at its acuminate corners with tongues, the tongues and notches being located at parallel edge portions of the section.

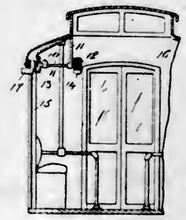
1,375,961. SILO AND ENSILAGE-FEEDING STRUCTURE. LOREN D. HART, Dickens, Iowa. Filed May 8, 1919. Serial No. 295,737. 8 Claims. (Cl. 193—20.)

1. A silo, comprising a silo wall, a wall spaced from said silo wall extending upwardly in the central part of the silo, cover sections for said inner wall structure, pivoted at their outer edges and having portions adapted to



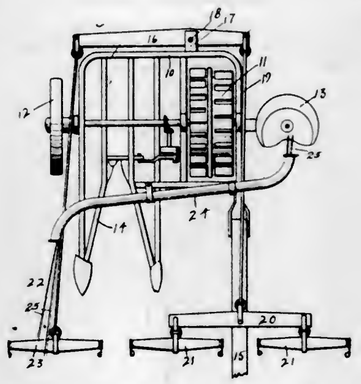
agitate the ensilage when the inner ends of the cover sections are released and dropped downwardly.

1,375,962. INDICATOR. FRANK HEDLEY, Yonkers, and JAMES S. DOYLE, Mount Vernon, N. Y. Filed July 1, 1919. Serial No. 307,998. 9 Claims. (Cl. 40—60.)



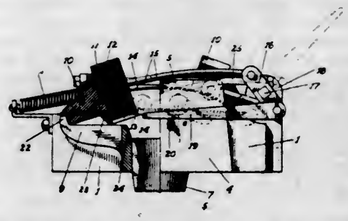
1. In an indicator mechanism for indicating whether doors are open or closed, a tell-tale indicator vane, arranged to be maintained in retracted position when the door is closed, and means extending into the path of the door, for moving said indicator into indicating position when the door is opened.

1,375,963. HITCH FOR HARVESTING MACHINERY. MORRIS O. HENDERSON, Story City, Iowa. Filed Jan. 2, 1920. Serial No. 349,040. 1 Claim. (Cl. 56—51.)



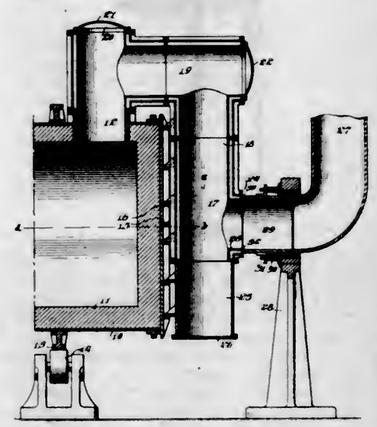
The combination of a harvesting machine having a frame, traction wheels, a tongue, gathering members located between and forward with relation to said wheels, a seat, with a draft device comprising an evener bar pivotally connected between its ends, rearwardly of said gathering members, draft members extending forwardly from said evener bar on opposite sides of its pivot, said seat being located near one side of the machine, and a tubular guide member supported on the machine and extending across the machine from a point adjacent to the seat to a point beyond the gathering members and rearwardly from the forward part thereof, whereby one draft animal may be driven between rows of standing corn, and yet the evener bar will not be interfered with by said corn, nor will it interfere with said corn, and whereby lines may be placed in said tubular guide members, where they will not be interfered with by the standing corn or the like.

1,375,964. LOCKED-CARRIAGE PIPE-SPIDER. BENJAMIN FRANKLIN HINIKER, Taft, Calif. Filed Aug. 7, 1920. Serial No. 402,009. 11 Claims. (Cl. 255—23.)



1. A device of the character described comprising a table, a pair of carriages slidably mounted therein for movement to and from each other, and semicircular bushings carried by the carriages and arranged to clamp about a pipe when the carriages are moved toward each other.

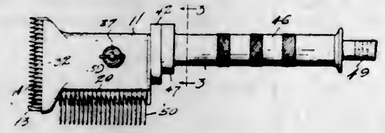
1,375,965. GAS-DISCHARGE CONDUIT FOR ROTARY CONVERTERS. WILLIAM H. HOWARD, Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 4, 1919. Serial No. 342,451. 10 Claims. (Cl. 266—36.)



1. A converter for treating molten matte which comprises a horizontal cylindrical shell mounted to rotate on its horizontal axis and having its discharge opening for smoke and gases at the upper portion of the shell, a conduit fixed to one end of the shell and rotatable therewith, said conduit leading from said opening and having a discharge end portion concentrically disposed relative to said axis, and means for receiving the gaseous discharge from the converter, said means having a relatively fixed gas intake member constituting a continuation of said rotating discharge end portion, and having a loose but substantially

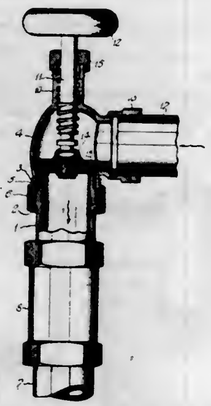
gas-tight connection with said end portion thereby to permit freedom of rotary motion and at the same time avoid leakage at the joint between the rotating end and the fixed intake member.

1,375,966. HAIR-CLIPPER. SIDNEY P. JONES and DAVID P. WALLACE, Waco, Tex. Filed Jan. 14, 1920. Serial No. 351,370. 11 Claims. (Cl. 30—1.)



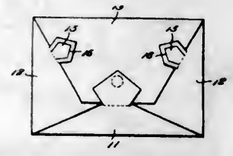
1. In a hair clipping device, a support having a lower longitudinal portion upon which the support is adapted to rock transversely, a pair of longitudinal coacting cutters carried by the support at one side thereof and arranged above the lower longitudinal portion, an upwardly inclined forward portion carried by the support and extending from the lower longitudinal portion to a point above the same, a pair of transverse coacting cutters carried by the inclined forward portion and spaced vertically from the bottom of the lower portion, and means to operate one of the cutters in each pair.

1,375,967. VALVE. CHARLES S. KELLUM, Detroit, Mich., assignor to Commonwealth Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 25, 1918. Serial No. 224,658. 4 Claims. (Cl. 251—156.)



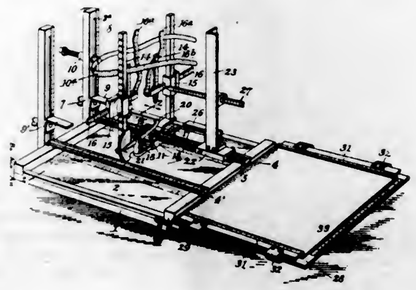
4. As a means for alining the inlet and outlet ports of a valve casing with fitting connections having axes at approximately right angles, and wherein the valve casing carries the valve member having an active closure face, a coupling sleeve adapted to be secured to one of the fitting connections and having its outer periphery extending on two diameters connected by a seating face, said sleeve being insertible within one of the casing ports to locate the portion of less diameter wholly within such casing and spaced from the casing wall, the inner end of the sleeve being adapted to operate as a closure seat, the casing wall at such port being externally threaded and internally smooth, said seating face having a configuration to coöperate with said smooth wall portion to form a closed joint therewith beyond the portion of less diameter, said sleeve also having an annular shoulder beyond the seating face, said valve member being formed to permit shifting of the closure face to compensate for variations in the relation of sleeve and casing at said seating face, and a fitting member coöperating with said shoulder and said threads to couple the sleeve and casing together in such relation, the seating face and the complemental portion of the casing wall being relatively formed to permit relative movement or canting of the inserted portion within the casing.

1,375,968. SAFETY-ENVELOP. GIOVANNI LATTANZIO, New York, N. Y. Filed June 29, 1920. Serial No. 392,704. 2 Claims. (Cl. 229—81.)



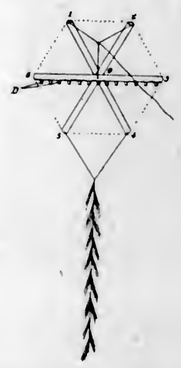
1. A safety envelop comprising a body portion, a bottom flap, side flaps and a closure flap, a sealing tongue carried by one end of one of the side flaps and adapted to be adhesively secured to the adjacent extremities of the other side flap when these flaps are folded, a plurality of sealing tongues cut from each side flap, the said tongues being arranged one within the other and adapted to be secured on the exterior of the closing flap when the envelop is sealed.

1,375,969. PEDIMETER. CASTAGNOLA OLIVER, Brooklyn, N. Y. Filed Oct. 6, 1919. Serial No. 328,652. 18 Claims. (Cl. 33—3.)



1. A pedimeter comprising in combination means whereby the vertical distance from a base plane may be determined of any given point on a patient's foot when the foot is in the position assumed by it when standing, and means whereby the projection of said point on said plane may be determined.

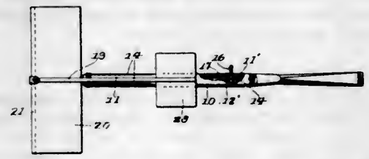
1,375,970. KITE. SOPHOCLES XENOPHONE PANTCHEFF, Buckhurst Hill, England. Filed July 7, 1920. Serial No. 394,425. 11 Claims. (Cl. 244—22.)



1. A kite comprising a frame constituted by a plurality of radiating ribs or spars of any desired cross section,

means for securing said ribs or spars in superposition at the center, means for connecting together the peripheral extremities of said ribs or spars approximately in the same plane, a covering for said frame fastened to the periphery of the kite only and constituting a plurality of inclined surfaces symmetrically arranged with respect to the center of the kite, a flying string, means for attaching said flying string to said kite, a tail and means for attaching said tail to said kite.

1,375,971. TOY AEROPLANE-PROJECTILE. ROBERT L. PARRISH, The Dalles, Oreg. Filed Feb. 5, 1921. Serial No. 442,796. 1 Claim. (Cl. 244—14.)

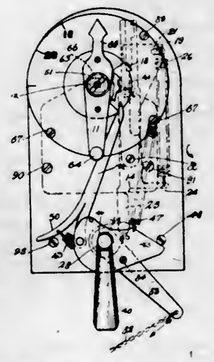


A toy projectile for a catapult gun comprising a frame including a longitudinal strip, a longitudinal block disposed below the forward end portion of the strip and secured thereto, a transverse sustaining plane secured between the strip and block, a reinforcing strip secured to the forward edge of the sustaining plane, a tail plane secured to the rear end of the strip, a weight carried by the forward end of the strip and block, and a staff for reception in the barrel of a catapult gun secured at its forward end portion to the lower side of the block and terminating at its rear end below the forward edge of the tail plane.

1,375,972. MANUFACTURE OF ANTHRANOL. ARTHUR GEORGE PERKIN, Leeds, England, assignor to British Dyestuffs Corporation, Limited, Kingsway, London, England. Filed June 9, 1920. Serial No. 387,730. 4 Claims. (Cl. 23—24.)

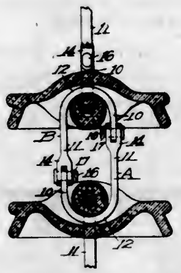
1. Process for the manufacture of anthranol by heating anthraquinone with a solution of a carbohydrate in the presence of caustic alkali.

1,375,973. TIMING DEVICE. ROSS M. G. PHILLIPS, New Haven, Conn., assignor to The Phillips Time Switch Co., Shelton, Conn., a Corporation. Filed Aug. 19, 1918. Serial No. 250,437. 8 Claims. (Cl. 161—7.)



1. In a timing device, the combination with the arbor of a time movement, of a cam operated thereby, a cocking link arranged in the path of said cam, said link formed with a shoulder near its upper end and with a finger near its lower end, a stud with which said shoulder will engage, and a spring tending to raise the link and throw it into engagement with the said stud.

1,375,974. INSULATOR-CONNECTOR. HENRY T. PIERCE and ANGUS D. MCPHEE, Worcester, Mass., assignors to General Electric Company, a Corporation of New York. Filed Feb. 11, 1918. Serial No. 216,453. 6 Claims. (Cl. 173—318.)



6. An insulator connector having, in combination, two duplicate pieces each comprising longer and shorter end portions joined by a substantially semi-circular intermediate portion, and means to connect said pieces to each other in reversed position, said end portions being perforated and each longer end portion being forked, and said means comprising studs extending transversely through said perforations, said perforations being elongated longitudinally of said members, and said studs having similarly elongated cross-sections.

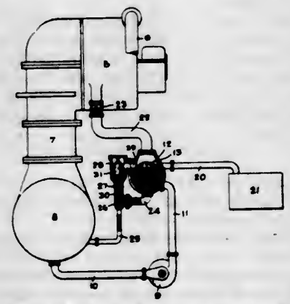
1,375,975. MANUFACTURE OF SUBSTANCES PRECIPITATING GLUE. ADOLF RÖMER, Stuttgart, Germany, assignor, by mesne assignments, to Adolf Kuttroff, New York, N. Y. Filed Nov. 28, 1914, Serial No. 874,540. Renewed Apr. 24, 1920. Serial No. 376,429. 13 Claims. (Cl. 23—24.)

1. A process of making tanning substances which comprises heating a naphthol-sulfonic acid to effect the formation of a new product which is capable of strongly precipitating glue.

1,375,976. MANUFACTURE OF SUBSTANCES PRECIPITATING GLUE. ADOLF RÖMER, Stuttgart, Germany, assignor to Adolf Kuttroff, New York, N. Y. Filed May 9, 1917, Serial No. 167,561. Renewed June 29, 1920. Serial No. 392,772. 1 Claim. (Cl. 23—24.)

The process of producing new water-soluble products which are capable of precipitating glue from its solutions, which comprises treating, with a sulfonating agent, a naphthalene sulfone and acting upon the product with formaldehyde.

1,375,977. APPARATUS FOR CONDENSING STEAM AND HEATING FEED-WATER. FREDERICK SAMUELSON, Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed Sept. 26, 1918. Serial No. 255,817. 3 Claims. (Cl. 257—24.)



1. The combination of a prime mover, a feed water heater comprising tubes through which the water to be

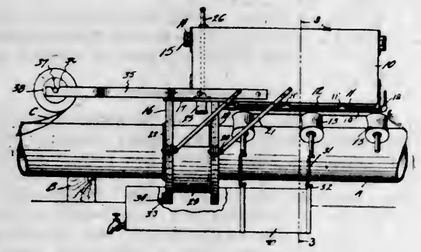
heated flows, said water flowing first through the lower tubes and then through the upper tubes, a conduit for leading heating steam from the prime mover to the feed water heater, a conduit for conveying the condensate therefrom, a valve in the last named conduit, and means controlled by the level of condensate in said feed water heater for operating said valve.

1,375,978. STOVE-LID. WILLIAM SCHARFHAUSEN, Spencer, Idaho. Filed May 12, 1920. Serial No. 380,717. 1 Claim. (Cl. 126—220.)



A stove lid, consisting of a ring having its edge adapted to seat within the rabbeted opening of the stove, and having an integral cup-shaped casing dependent from the same and co-axial with the ring and spaced apart outwardly from the opening through the ring, said casing having radial discharge openings adjacent to the ring, and the edge of the opening of the ring being beveled from above outwardly and inwardly, and a disk having a beveled edge seated in the opening.

1,375,979. PIPE-COATING MACHINE. ROCK G. TABER, Dallas, Tex. Filed Mar. 4, 1920. Serial No. 363,273. 6 Claims. (Cl. 91—30.)

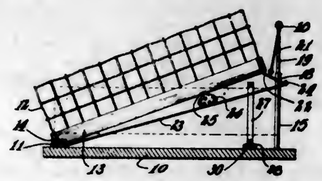


1. In a machine for coating pipes, a tank for holding the fluid coating material, supporting means for the tank, a second tank arranged beneath the pipes for receiving the lower portion of the pipes and holding the coating material discharging from the upper portion of the pipe in contact with the lower portion of said pipe, and means for supplying the fluid material from the tank to the upper portion of the pipes.

3. In a machine of the character described, a tank for holding a coating fluid, supporting means for the tank whereby it is adapted to move longitudinally of the pipes to be coated, outlet means for the tank for supplying the fluid to the pipes, a support connected with the tank, and supporting means for a roll of paper or the like connected with the support.

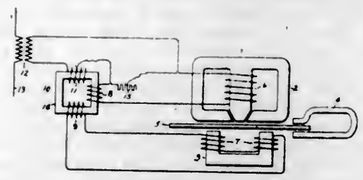
1,375,980. MOUSETRAP. STANLY TANSKI, East Vandergrift, Pa. Filed Dec. 29, 1920. Serial No. 433,794. 4 Claims. (Cl. 43—62.)

3. An animal trap comprising a base, a cage pivotally attached thereto at one end, a latch adapted to have one end engage and support the free end of the cage in raised position, a hooked bait-carrying member adapted to engage the opposite end of the latch, a link from which said latch is freely suspended at a point between its ends, an inverted U-shaped bar from which said link is suspended, a pair of tubular posts on said base into which the legs



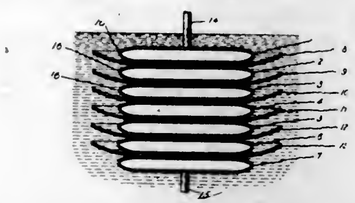
of the said bar project, the said legs of the bar having notches spaced therealong, and springs on said posts yieldingly engaging in said notches.

1,375,981. PROTECTIVE DEVICE. BENJAMIN H. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 28, 1919. Serial No 320,524. 7 Claims. (Cl. 175—294.)



4. A relay comprising operating means responsive to overload current, a transformer controlling said operating means, and means associated with said transformer for impressing a potential on said operating means which varies as the overload current up to a predetermined amount and is then constant independent of the overload current.

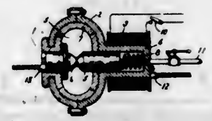
1,375,982. CONDENSER. ELIHU THOMSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 16, 1916. Serial No. 131,766. 4 Claims. (Cl. 250—41.)



4. A condenser comprising a series of conducting shells, sheets of dielectric material arranged between the same and terminals connected to the end shells of said series only, the opposite surfaces of said shells being substantially parallel and the portions of said shells between said surfaces being tapered away from the adjacent sheets of dielectric material.

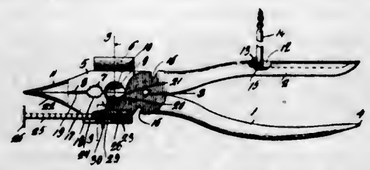
1,375,983. ELECTRIC SWITCHING DEVICE. ELIHU THOMSON, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 11, 1917. Serial No. 196,056. 15 Claims. (Cl. 200—144.)

1. In an electric switching device, relatively movable cooperating contacts, a substantially closed vessel inclosing said contacts and adapted to contain a high pressure atmosphere, and means for separating said contacts and



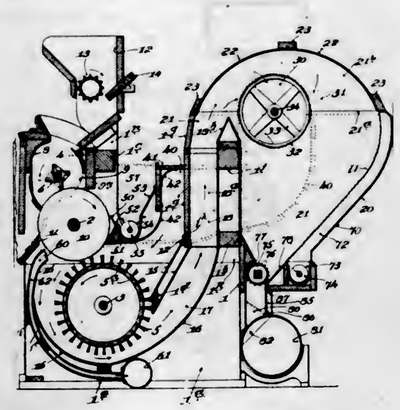
producing a strong magnetic field which aids in attenuating the arc formed within the high pressure atmosphere of said vessel to extinguish it with great rapidity.

1,375,984. TOOL. ANTONIO N. TRULLENCH, Lucena, Philippine Islands. Filed Oct. 29, 1919. Serial No. 334,154. 7 Claims. (Cl. 294—48.)



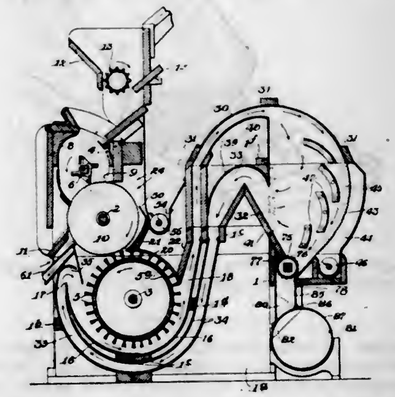
1. A tool comprising pivotally connected handles, a jaw formed on each handle, a perforated projection formed on one jaw, a ratchet bar passing through said perforated projection, and means carried on the jaw for engaging the ratchet bar.

1,375,985. MECHANISM FOR REMOVING USEFUL FIBER FROM SEEDS. ARTHUR A. VARDELL, Dallas Tex.; Highland Gee Vardell executrix of said Arthur A. Vardell, deceased. Filed Aug. 9, 1919. Serial No. 316,459. 29 Claims. (Cl. 13—9.)



10. A gin of the saw type comprising a rotary doffing brush and having therein a casing surrounding the doffing brush and comprising a pneumatic delivery passage receiving the air-current set up by rotation of the brush, said casing having a return passage delivering to the suction side of the fan constituted by the brush, and means for stripping the air current flowing in said passages of fiber conveyed thereby, said passages and stripping means being substantially closed to the outer air.

1,375,986. MECHANISM FOR REMOVING USEFUL FIBER FROM SEEDS. ARTHUR A. VARDELL, Dallas, Tex.; Highland Gee Vardell executrix of said Arthur A. Vardell, deceased. Filed Aug. 9, 1919. Serial No. 316,460. 15 Claims. (Cl. 13—9.)



4. Mechanism for separating useful fibers from seeds or aggregates of fiber having therein means for throwing the separated fibers into an air-curent, means for causing cyclonic motion of the air-current in a closed passage, whereby to drop a part of the air-borne fiber, means for returning the air-current to receive a further charge of fiber, and means for delivering the dropped fiber from the machine.

1,375,987. GAS-RADIATOR. MARIUS VASSELON, St. ETIENNE, France. Filed Mar. 6, 1920. Serial No. 363,766. 3 Claims. (Cl. 126—89.)

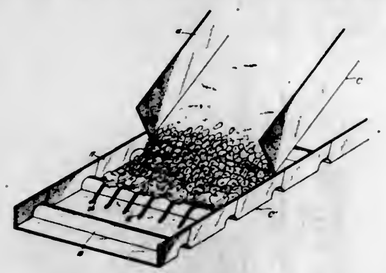


1. A gas radiator for heating purposes comprising in combination a base part, a sheet metal casing supported and having its bottom formed by said base member, a plurality of horizontally staggered rows of tubes extending transversely from the front wall to the rear wall of the casing and opened at both ends, an opening in the front part of the casing underneath said tubes, a perforated gas pipe burner supported between the tubes and the base member and adapted to heat the tubes, said burner being connected to the gas supply, a parabolic reflector extending from side to side of the casing at the rear of said opening, and burner, the focus line of which is adapted to coincide with the center line of the flames issuing from the burner, and an outlet at the top of the casing adapted to discharge the spent gases.

1,375,988. ATTACHMENT FOR COAL-CONVEYERS. CLARENCE GASTON WALKER, Bramwell, W. Va. Filed Nov. 3, 1919. Serial No. 335,410. 10 Claims. (Cl. 193—24.)

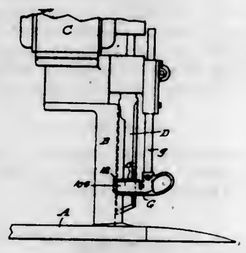
3. In combination, a chute, a picking table disposed below said chute and comprising hinged sections having joints disposed above the bottom wall of the table and extending transversely thereof, and a plurality of flexible members

secured to the delivery end of the chute and having their free ends lying on the picking table and adapted to be



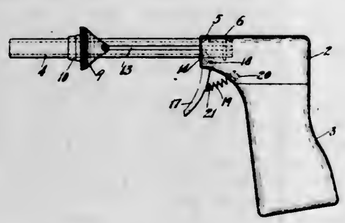
engaged by said joints for imparting a wave-like motion to the members when the picking table is moved.

1,375,989. CLOTH-CUTTING MACHINE. JAMES EARLE WILLIAMS, Chicago, Ill., assignor to Eastman Machine Company, Buffalo, N. Y. Filed June 30, 1919. Serial No. 307,823. 7 Claims. (Cl. 164—75.)



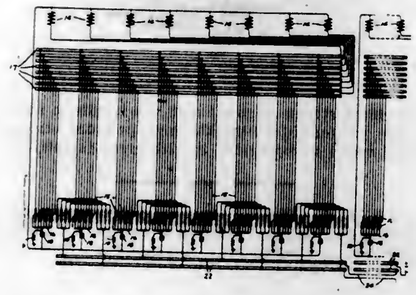
1. In a cloth cutting machine, the combination with a base, a standard which rises from said base, a driven knife, and a presser foot for engaging the material being cut adjacent to the knife, of means carried by said presser foot for applying lubricant to the knife.

1,375,990. TOY PISTOL. PAUL L. L. YORGENSEN, Hartford, Conn. Filed Feb. 2, 1921. Serial No. 441,782. 5 Claims. (Cl. 124—7.)



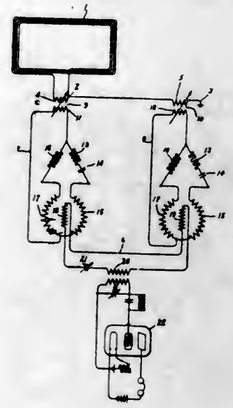
1. A toy pistol comprising a frame, a barrel connected with the frame, a spring having a hole to receive the barrel, the barrel being provided with means for holding the spring in position, an ejector in the barrel, connections between the free portions of the spring and the ejector, and a trigger mounted on the frame, and a latch to hold the ejector back and the spring tensioned, the trigger being provided with means to trip the latch and thus release the ejector.

1,375,991. SYSTEM OF ELECTRICAL DISTRIBUTION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 6, 1917. Serial No. 195,022. 8 Claims. (Cl. 172—237.)



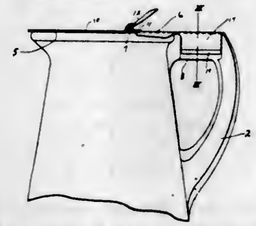
1. Apparatus for generating and distributing alternating current energy of high frequency comprising in combination, a high frequency alternator having a group of independent armature circuits, a transformer having a plurality of primary and secondary coils, each of said primary coils being wound of a plurality of independent conductors, and means for electrically connecting each conductor of each primary coil to an individual armature circuit so that each conductor is directly connected in a complete electric circuit with only one armature circuit and each armature circuit is connected to only one conductor of each primary coil.

1,375,992. RADIO-RECEIVING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 18, 1919. Serial No. 291,114. 6 Claims. (Cl. 250—11.



1. The combination in a radio receiving system of an aperiodic receiving antenna, means for deriving from said antenna two separate currents, one due to the magnetic exposure and one due to the electrostatic exposure and one due to the electrostatic exposure, a receiving circuit associated with said antenna, means for impressing the two currents derived from the antenna upon said receiving circuit, and means for varying the phase of either of the currents thus impressed upon the receiving circuit.

1,375,993. LIQUID-CONTAINER PROVIDED WITH REMOVABLE HINGED TOP. CHARLES S. BARON, Tiffin, Ohio. Filed July 9, 1919. Serial No. 309,580. 1 Claim. (Cl. 65—13.)



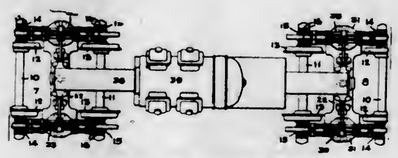
The combination with an open-mouthed container, provided upon one side thereof with a projection having a cross-sectional contour defined by respective pairs of lateral faces upwardly convergent to the top of the member from medial points and downwardly convergent from said points, constituting oppositely acting wedges, of a top provided with a spring clip member detachably fitting over said projection, said member having resilient cheek-plates terminating in lips adapted to engage and to be moved apart by said wedges when the clip member is applied to and removed from said projection, the distance between the pair of upwardly converging lateral faces at the top of the projection being less than the normal distance between the lips of the cheek-plates.

1,375,994. AUTOMOBILE-LOCK. JAMES W. BARWICK, Pinepark, Ga. Filed Jan. 15, 1920. Serial No. 351,736. 2 Claims. (Cl. 70—90.)



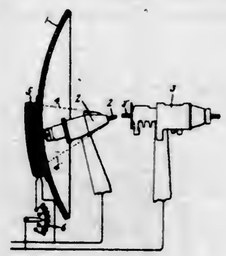
1. An automobile lock comprising a pair of jaws hinged together at their lower ends to permit the same to be opened or closed, said jaws having seats formed in their opposed faces and adapted, when the jaws are closed to aline for the reception respectively of the steering arm carried by the wheel of an automobile and the actuating rod therefor to prevent the same from having relative movement, said jaws being adapted to be placed upon said arm and rod immediately in rear of their pivotal connection when the wheel is at one limit of its turning movement, one of said jaws having a downwardly extending arm to bear against the front axle, and means for holding the jaws in locked position.

1,375,995. SELF-PROPELLED MOTOR-CAR. ASA F. BATCHELDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 11, 1918. Serial No. 262,019. 10 Claims. (Cl. 105—139.)



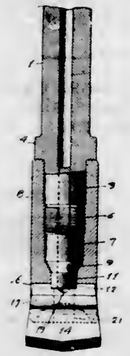
1. In combination, a pair of trucks, a car body supported thereby, an engine, and means for supporting the engine on said two trucks independently of the car body.

1,375,996. METHOD OF AND APPARATUS FOR PREVENTING INJURY OF SEARCHLIGHT-MIRRORS. HEINRICH BECK, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 12, 1920. Serial No. 388,503. 5 Claims. (Cl. 176—51.)



2. The method of preventing injury to reflectors used with a heat radiating source of light due to its unequal expansion which consists in applying heat to that portion of the reflector which does not receive direct heat radiation from the arc.

1,375,997. DRILL. HENRI BERNAY, San Francisco, Calif., assignor, by mesne assignments, to Fred W. Thurston, San Francisco, Calif. Filed May 31, 1919. Serial No. 301,347. 3 Claims. (Cl. 306—43.)

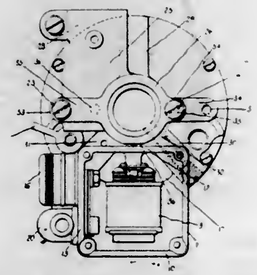


1. In a drill, the combination of a longitudinally bored drill bar having a screw threaded portion and a bit-locking extension; a longitudinally bored chuck in which fit said portions of the drill bar, the chuck having a screw thread engaging on that of said drill bar, and being formed with a central bore open at its lower end and with a transverse slot intersecting the bore of the chuck; and a bit arranged across said bore so as not to close the same, and laterally slidable in said slot, said bit and slot having means for holding the bit from movement longitudinally of the drill bar, the bit having also a recess in its upper edge with which the extension of the drill bar has a locking engagement, the extension entering said recess and binding or releasing the bit by the operation of said screw threads.

1,375,998. ELECTRICAL APPARATUS FOR MOTOR-VEHICLES. JOSEPH BIJUR, New York, N. Y., assignor to Bijur Motor Appliance Company, Hoboken, N. J., a Corporation of Delaware. Filed June 27, 1918. Serial No. 242,247. 11 Claims. (Cl. 123—149.)

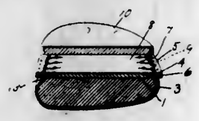
6. In electrical apparatus for motor vehicles, in combination, a generator having an end head, a housing hav-

ing a tubular cavity to one side of the generator shaft secured to said end head, said housing being substantially symmetrical with respect to a plane parallel to said end head, said end head having symmetry for permitting said housing to be secured thereto, with said cavity located at either side of said shaft, a shaft for driving ignition apparatus, disposed in said tubular cavity, and a transmission for driving said shaft from said generator.



11. In apparatus of the class described, in combination, a dynamo, including an end head, said head having a bearing surface therein, three integral radial passages on said end head, and leading to said bearing surface, a casing for an automatic switch formed integrally with said end head, substantially symmetrically with said passages and integrally with two of them, whereby when said dynamo is mounted in substantially any non vertical position, some one of said passages may be used for feeding lubricant and another when sealed at its outer end, as a lubricant reservoir.

1,375,999. WELT-SHOE. CHARLES C. BLAKE, Brookline, Mass. Filed June 8, 1917. Serial No. 173,489. 3 Claims. (Cl. 36—17.)



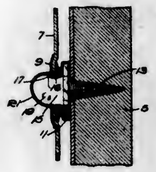
1. A welt shoe having its upper lasted to the edge face of the insole and its welt secured to the lasted shoe with the faces of the welt and insole engaged by the outsole in the same plane, and having a break in its upper, said break being adjacent the insole and located above the exposed face of the welt.

1,376,000. AEROPLANE. HANS BOSSART, Los Angeles, Calif. Filed Feb. 16, 1918. Serial No. 217,579. 3 Claims. (Cl. 244—14.)



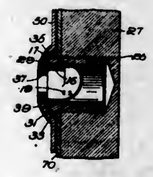
1. An aeroplane of the class described having a frame comprising a pair of top rails, a pair of bottom rails converging at their front and rear ends into a single rail, braces for connecting said rails whereby said frame will be square in cross section intermediate its ends and triangular in cross section throughout its end portions, a plane situated on said frame, a rudder, and elevating means.

1,376,001. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed July 14, 1919. Serial No. 310,592. 13 Claims. (Cl. 24—214.)



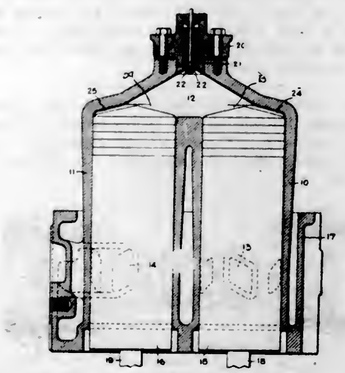
1. A stud and socket fastener comprising a ring-like socket or eyelet closely adapted to the stud and a stud terminally extended in the direction of strain to provide a head, said stud being substantially rigid in the line of strain and resilient laterally.

1,376,002. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Original application filed July 14, 1919, Serial No. 310,592. Divided and this application filed Oct. 22, 1920. Serial No. 418,681. 10 Claims. (Cl. 24—214.)



1. A fastener for curtains and the like comprising, in combination, a resilient stud having a shank, means for securing said stud to the curtain, a rigid socket, means for securing said socket to a rigid support, said stud and socket separable by tipping of the stud in a predetermined direction only, and coöperating stop means between the shank of the stud and socket, said stop means opposing translation of forces arising from strain in a direction generally transverse to the longitudinal axis of the stud into a resultant force which, if unopposed, would tip the stud relative to the socket in that predetermined direction necessary to disengage said stud from said socket.

1,376,003. COMBUSTION-CHAMBER. HENRI G. CHATAIN, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Sept. 19, 1916. Serial No. 121,081. 4 Claims. (Cl. 123—53.)



1. In an internal combustion engine, a cylinder structure comprising two cylinders arranged side by side and

having a common combustion chamber in direct communication therewith, pistons in said cylinders, said common combustion chamber being of flattened cone shape with the apex of the cone midway between the two cylinders and the base of the cone extending over both pistons, and a fuel injector located at the apex of the cone for discharging a spray of fuel into the combustion chamber of the same contour as the chamber whereby such fuel is distributed evenly over both piston heads.

1,376,004. HEADPIECE FOR METALLIC PICCOLOS. NILS CHRISTENSEN, Boston, Mass. Filed June 20, 1919. Serial No. 305,553. 5 Claims. (Cl. 84—384.)



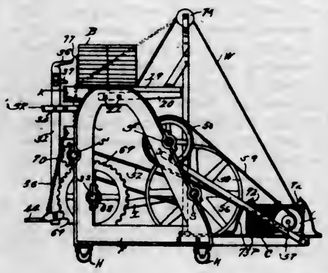
2. A piccolo comprising a body-portion having a cylindrical bore and a head-piece having an enlarged portion adjacent the joint end.

1,376,005. FORCEPS. SYLVESTER T. COHANE, Hartford, Conn. Filed Mar. 4, 1920. Serial No. 363,144. 2 Claims. (Cl. 32—10.)



2. Dental forceps comprising levers each equipped with a jaw member at its ends, the jaw members being formed to coöperate in pairs, one adapted to an upper set of teeth, and the other to a lower set of teeth, the levers having headed studs near their ends, the heads of the studs being of elliptical formation, and the levers having elliptical slots to alternately receive the studs.

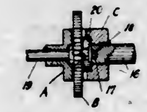
1,376,006. BINDING-MACHINE. ALBERT EARL CRANSTON, Spokane, Wash. Filed Sept. 13, 1919. Serial No. 323,542. 14 Claims. (Cl. 100—31.)



1. A binding machine, comprising a knotter, mechanism for actuating said knotter, driving means for said mechanism normally disconnected therefrom, a manually operable lever for controlling said driving means capable of occupying one extreme position wherein said means is connected to said mechanism and another extreme position wherein said means is disconnected from said mechanism, means for biasing said lever to the last-mentioned extreme position, and a needle capable of occupying a threading and nonthreading position with relation to said knotter and operatively connected to said lever to occupy one position or the other according as said lever occupies one extreme position or the other.

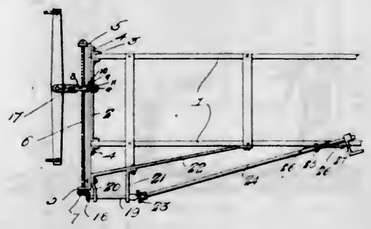
7. In a binding machine, a needle, comprising a bar, a positioning finger, a guide finger on the bar, and a tension device carried by the bar.

1,376,007. CLUTCH FOR THE ENGAGEMENT AND DISENGAGEMENT OF SHAFTS. JOHN THOMAS DALTON and CHARLES DALTON, Berry Brow, near Huddersfield, England. Filed Sept. 8, 1920. Serial No. 408,969. 1 Claim. (Cl. 123—185.)



The combination, with a revoluble shaft, and a driven member secured thereon and provided with a series of recesses in its front face; of a revoluble and longitudinally slidable operating shaft arranged in line with the aforesaid shaft, a disengaging wheel journaled loosely on the said operating shaft and provided with a series of slots which register with the said recesses and which have inclined portions, means for preventing the disengaging wheel from revolving backwardly, and a driving member secured on the said operating shaft and provided on its rear face with teeth which project through the said slots and normally engage with the said recesses and which revolve the driven member when the operating shaft is revolved forwardly, said teeth having inclined portions which engage with the inclined portions of the disengaging wheel, said disengaging wheel operating, when held stationary and when the first said shaft is revolved backwardly, to slide the driving member forwardly out of engagement with the driven member.

1,376,008. DRAFT MECHANISM. FERDINAND F. DASENBROCK, Teutopolis, Ill. Filed July 11, 1917. Serial No. 180,007. 4 Claims. (Cl. 97—4.)



3. In a draft device of the class described, a draft member, a worm shaft rotatably mounted thereon, means for rotating the shaft, a block fitting the shaft and adjustable longitudinally thereof in the rotation of the shaft, a draft head having spaced portions extending above and below the draft member and the said block, spindles carried by the said portions of the draft head and engaging the said block whereby the head is supported for oscillatory movement upon the block, rollers mounted upon the said spindles in position to engage one side of the draft mem-

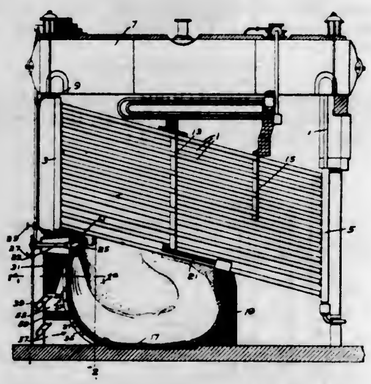
ber, and other rollers mounted upon the said spaced portions of the draft head in position to engage the opposite side of the said draft member, whereby to limit the oscillatory movement of the head.

1,376,009. WELL APPARATUS. WILLIAM LINCOLN DUNN, Oxnard, Calif., assignor to Dunn Manufacturing Company, Oxnard, Calif., a Corporation of California. Filed Nov. 17, 1919. Serial No. 338,721. 2 Claims. (Cl. 255—35.)



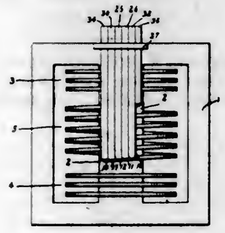
1. In well apparatus, a floor circle brace comprising two telescoping members, and locking means for maintaining the same in position of relative adjustment, said locking means comprising a part threaded adjacent to the end of one of said members and carrying a locking finger having a downwardly directed end portion provided with a plurality of transverse teeth, the other telescoping member being transversely toothed and adapted to co-act with said first named teeth to form a strong gripping action; the said teeth being so formed as to resist compressive effort between the telescoping parts; one of said telescoping members being provided with an elongated grooved portion, and the other telescoping member being provided with a projecting pin for engagement with said grooved portion, thereby limiting telescopic action of said members in one direction and likewise preventing relative axial play of said members.

1,376,010. LIQUID-FUEL-BURNING FURNACE. MILTON A. FESLER, Oakland, Calif., assignor to Petroleum Heat and Power Company, a Corporation of Delaware. Filed Nov. 11, 1919. Serial No. 337,177. 12 Claims. (Cl. 158—1.)



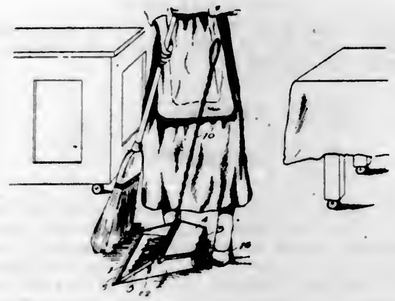
1. In a furnace for a water tube boiler, the combination of a combustion chamber having water tubes at the roof thereof and a bridge wall at the rear thereof, a liquid fuel burner projecting into the front of the chamber, brick checker work at the front of the chamber extending downward from the burner toward the base of the chamber and having openings therein graded and distributed in the direction of the flame from the burner, and means variably to admit air through the openings of said checker work to the fuel issuing from said burner.

1,376,011. ELECTRIC APPARATUS. JOHN J. FRANK, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 25, 1919. Serial No. 292,609. 7 Claims. (Cl. 175—356.)



1. A winding comprising a plurality of coil groups in which conductors in each group are disposed one outside another radially and connected respectively in series with conductors in another coil group to form lots of series connected conductors, the lots being connected in series and taps for the windings being provided between each lot of conductors.

1,376,012. DUSTPAN. IRVING MADISON FREEMAN, Fayetteville, Ark. Filed Nov. 25, 1919. Serial No. 340,554. 1 Claim. (Cl. 65—63.)

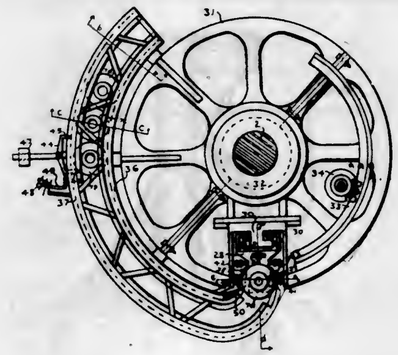


A dust pan formed from a single sheet of material and including a bottom, sides formed on the side edges of the bottom and extending upwardly therefrom, a back formed upon and extending upwardly from the rear edge of the bottom, a top formed on said back and extending over the bottom in spaced, substantially parallel relation thereto and forming with the back and sides, a hood, a handle pivotally connected with the sides, and a foot piece including a horizontal portion adapted to lie upon the ground or other surface and further including spaced arms extending through the bottom and top adjacent the back and having their free extremities clenched over the rear edge of the top.

1,376,013. MACHINE FOR DISCHARGING PROJECTILES. JOSEPH N. GILBERT, Minneapolis, Minn. Filed Mar. 14, 1918. Serial No. 222,431. 2 Claims. (Cl. 89—10.)

1. In a centrifugal gun, a rotary discharger, a projectile track thereon, said track having a portion thereof concentric with the center of rotation of said discharger and

a portion thereof extending radially, means to supply and hold projectiles in contact with said concentric portion



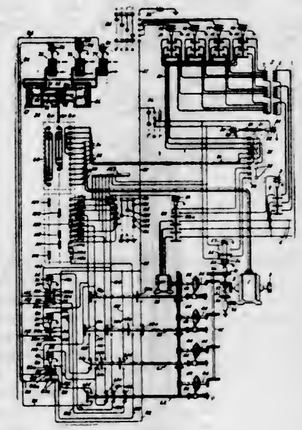
throughout a part revolution and release said projectiles thereon whereby they are given an initial rotation.

1,376,014. GRAPPLE. JAMES C. GINTER, Breckenridge, Tex. Filed Nov. 12, 1920. Serial No. 423,603. 2 Claims. (Cl. 294—102.)



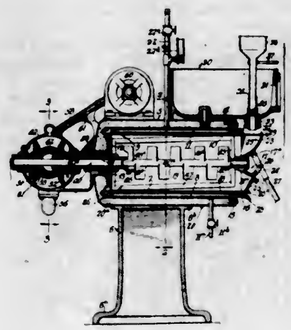
1. A device of the class described, comprising a body having a socket opening out through its forward end, the side walls of said socket being provided with grooves extending obliquely with relation to the longitudinal axis of the body, and terminating short of the forward end of the body, jaws slidable within said grooves and provided with teeth, the rear end portion of said body being provided with a head having a longitudinally extending opening, a longitudinally slidable plunger within said opening, and having its forward portion split longitudinally thereby forming a pair of spaced parallel arms arranged on opposite sides of said socket and having connection with said jaws, the rear end portions of said arms being extended across the rear portion of said socket to form a tool contacting element, a tubular attaching member connected to said head and provided with a socket, and a compression coil spring arranged within said second named socket and engaging the rear end of said plunger for normally advancing the same, the side walls of said first named socket being provided with grooves receiving said arms and communicating with said first named grooves.

1,376,015. ELECTRICAL REGENERATIVE CONTROL APPARATUS AND SYSTEM. WILLIAM S. H. HAMILTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 8, 1919. Serial No. 280,308. 25 Claims. (Cl. 172—274.)



1. The combination with a variable pole dynamo electric machine operable as a motor or as a generator, of means operated responsively to the speed of said machine for changing the number of poles thereof at a predetermined speed during motoring operation and at a different speed during generating operation.

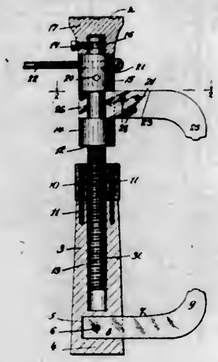
1,376,016. FREEZER. CLAUDE F. HOWELL, Chicago, Ill., assignor, by mesne assignments, to Continental Machinery Company, a Corporation of Delaware. Filed July 29, 1918. Serial No. 247,144. 3 Claims. (Cl. 257—84.)



1. A freezer comprising a pair of concentrically arranged, spaced, tubular members, rings between the ends of said members for holding them in spaced relation, said tubular members and rings providing a jacket space, a rear head plate including a hub, a front ring plate, the rear end of said inner tubular member engaging the face of said rear head plate and the rear end of the outer tubular member overlapping and being secured to the periphery of said rear head plate, the front ends of both of said tubular members engaging the face of said front ring plate, a front head plate secured to said ring plate and defining with said rear head plate and tubular members, a freezing chamber, the front head plate having inlet and outlet openings for said freezing chamber, an

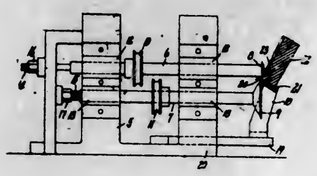
agitating means in said freezing chamber, journaled in said hub and in said front head plate, respectively, and means for connecting said jacket space with the supply and return line of a liquid refrigerant supply.

1,367,017. COMBINED JACK AND CLAMP. JOHN JOHNSEN, New Brighton, N. Y. Filed June 25, 1920. Serial No. 391,700. 1 Claim. (Cl. 7—1.)



A combined jack and clamp comprising a base, a hook member secured to said base to project therefrom in a fixed direction with respect thereto, a nut secured to said base, a lifting member in threaded engagement with the said nut, a lifting head rotatably carried by said lifting member, a plurality of integral collars on the lifting member, a second hook member, means for securing the latter to the said lifting member between the said collars thereon, said second hook member being rotatably carried by said lifting member and being adapted to be mounted with its hook portion pointing either upward or downward, and means for operating said lifting member.

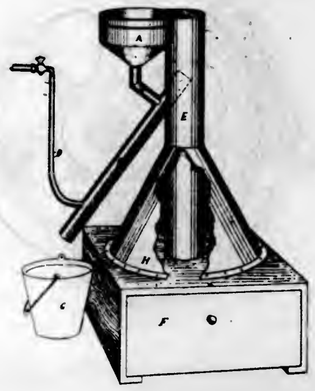
1,376,018. MACHINE FOR TRIMMING THE OVERFLOW FROM THE BREAST OF RUBBER HEELS. THOMAS E. KANE, Canton, Mass., assignor of one-half to Abraham Sydeman, Boston, Mass. Filed Jan. 19, 1920. Serial No. 352,291. 4 Claims. (Cl. 12—47.)



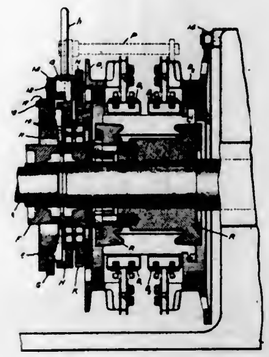
4. A machine for trimming the overflow from the breast of rubber heels having, in combination, a rotary cutter and a convexly curved work-support adjacent the periphery of said rotary cutter, the work-supporting face of said work-support being inclined to the median axial line of said cutter.

1,376,019. SEPARATOR FOR METAL AND WOOD SAWDUST. SOLOMON J. KELLEY, Binghamton, N. Y. Filed Apr. 14, 1919. Serial No. 290,036. 4 Claims. (Cl. 83—54.)

1. In a separator, a receiving chamber, a receptacle with which the receiving chamber communicates, an inclined conduit communicating with the receiving chamber at its upper end, with its lower end open to serve as a discharge, a valve controlled air blast means projecting into the inclined conduit intermediate its ends and a hopper communicating with the inclined tube below its upper end.



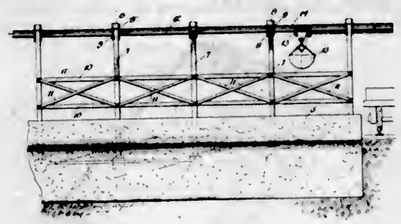
1,376,020. BRUSH-SHIFTING DEVICE FOR ALTERNATING-CURRENT MOTORS. WILLEM C. KORTHALS-ALTES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 13, 1918. Serial No. 216,948. 10 Claims. (Cl. 172—280.)



1. In an alternating current commutator motor, a brush shifting device comprising coöperating sets of brushes, a pair of rotatively mounted yokes for movably supporting said sets of brushes, movable and stationary gears and coöperating planetary gears all connected to said yokes in a manner for effecting their simultaneous angular movements through relatively different amplitudes in a predetermined ratio.

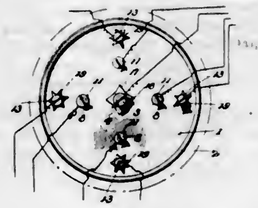
1,376,021. STORAGE-BIN. NELSON M. LANGDON, Mancelona, Mich. Filed Aug. 25, 1919. Serial No. 319,594. 8 Claims. (Cl. 214—17.)

1. An apparatus for the purpose set forth comprising an elongated permanent stationary storage receptacle having downwardly converging imperforate side walls, and an overhead container mounted to travel longitudinally



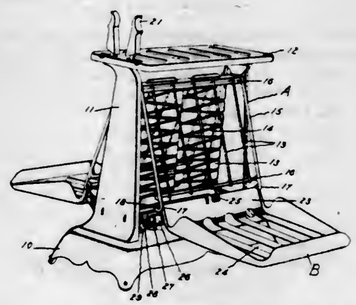
of said receptacle from end to end thereof to deliver material thereto or withdraw material therefrom.

1,376,022. SPARK-TROUBLE LOCATOR. SAMUEL P. LANGMAID and LEONARD A. WALTON, Seattle, Wash. Filed Sept. 1, 1920. Serial No. 407,454. 1 Claim. (Cl. 175—183.)



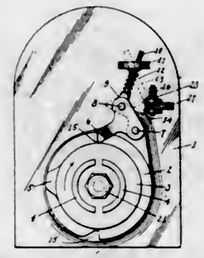
An indicator for spark plug circuits including an insulating base, a ground post arranged therein, a series of leading-in circuit posts arranged in concentric relation with the ground post, a series of leading-out circuit posts, arranged in concentric relation with the leading-in posts, a spark-gap member having a plurality of points mounted eccentrically on the upper end of each leading-out post to permit variation in the gap between said post and the particular leading-in post, and a plural point spark-gap member carried by the upper end of the grounding post.

1,376,023. ELECTRIC HEATING DEVICE. MILTON E. LONG and GEORGE W. KATZUNG, Pittsfield, Mass., assignors to General Electric Company, a Corporation of New York. Filed Apr. 2, 1917. Serial No. 159,064. 8 Claims. (Cl. 219—19.)



6. In a heating device, the combination of a substantially vertical heating element, a pivoted basket for holding the article to be heated and held by gravity adjacent the heating element, and means for swinging the bottom of the basket outwardly and then swinging the outer section downwardly and returning the sections whereby the article is reversed in its position relative to the heating element.

1,376,024. AUTOMATIC PAWL-THROW FOR MAGNETOS OR THE LIKE. PHILLIP E. MATTHEWS, Plainfield, N. J. Filed July 3, 1919. Serial No. 308,602. 2 Claims. (Cl. 123—149.)

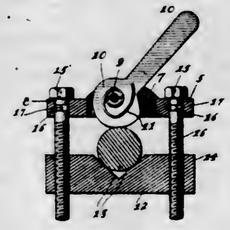


1. In combination with an ignition generator having field magnets capable of oscillating through a predetermined angle for advancing and retarding the ignition and having an impulse starting coupling comprising an operating shaft, a driven member fastened to said shaft, a driving member associated therewith, a resilient member forming a driving connection between the driving and driven members, a pivoted pawl stop for said driven member and shaft, means operated by the driving member for engaging the pawl stop to remove it from engagement with the driven member, and yielding means for holding the pawl "in" or "out" of engagement with the driven member after having been so positioned, and means operated by the oscillation of said magnets for throwing said pawl into engagement with said driven member when the magnets are oscillated to retard the ignition.

1,376,025. PROCESS OF ROASTING ORES OR CONCENTRATES. PERCY R. MIDDLETON, Los Angeles, Calif., assignor of one-half to John C. Lalor, New York, N. Y. Filed Jan. 20, 1920. Serial 352,899. 4 Claims. (Cl. 75—18.)

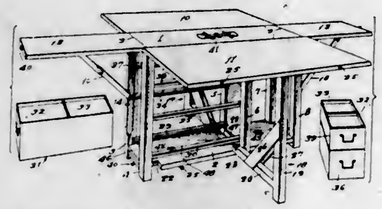
1. Process of roating ores containing a metallic sulfid, comprising heating the ore with access of air to a reacting temperature below the ignition point of the sulfur in the ore; and maintaining such temperature until the maximum proportion of the sulfid of the metal to be recovered has been oxidized to sulfate.

1,376,026. CLAMP-DOG. ALBERT PAUL MILLER, Newcastle, Ind. Filed Apr. 13, 1920. Serial No. 373,501. 1 Claim. (Cl. 82—42.)



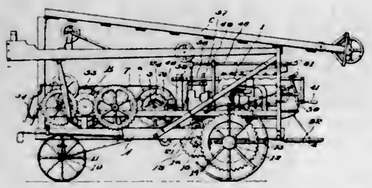
A clamping dog for grinders, lathes and the like comprising a bed block having a recess, a pivot pin fixed in said bed block and extending transversely across said recess, a clamping cam mounted for rotary movement on said pivot pin, a coil spring having one end seated in said pivot pin and the other end seated in said clamping cam to force said clamping cam to gripping position a clamping block associated with said bed block and means for adjusting said clamping block with respect to said bed block.

1,376,027. COMBINATION LUNCH KIT AND FOLDING TABLE. RUDOLPH W. MILLER, Orange, Calif., assignor to Orange Contracting & Milling Co., Orange, Calif., a Copartnership. Filed Feb. 23, 1917. Serial No. No. 150,609. 5 Claims. (Cl. 190—12.)



1. A combined kit and folding table comprising a central top; legs rigidly secured at their upper ends to the top and at each side thereof; a bottom rigidly joining said legs near their lower ends; folding leaves pivotally attached to the side and end edges of the top and extending to said bottom when they are folded; legs pivotally secured to said top and said bottom and adapted to support the folding leaves at the sides when the leaves are unfolded and to be swung under said top and between said side leaves when the side leaves are folded; means pivotally secured to each end leaf and to one of the first-named legs for holding the end leaf in unfolded position; and means for securing all the leaves in folded position to said bottom.

1,376,028. DRILLING-MACHINE. OTTO D. NORMAN, Spencer, W. Va. Filed Apr. 19, 1919. Serial No. 291,245. 8 Claims. (Cl. 255—11.)



1. In a drilling machine, the combination, of a portable supporting structure, traction wheels carried thereby, a power plant supported by said supporting structure, a drilling mechanism carried by the supporting structure, an operating pulley for said drilling mechanism, means operatively connecting the power plant and pulley, a transmission mechanism connected to said traction wheels, and removable means adapted to engage said pulley for connecting the pulley to said transmission means for operatively connecting the power plant and traction wheels.

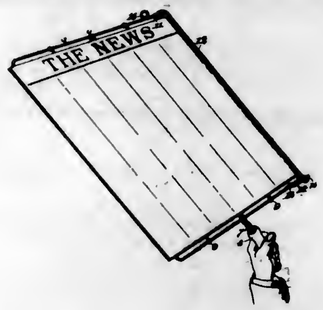
1,376,029. EXPLOSIVE COMPOSITION. FREDRICH OLSEN, Washington, D. C. Filed May 22, 1920. Serial No. 383,598. 3 Claims. (Cl. 52—7.)

1. The herein described composition of matter, containing an inorganic perchlorate, a nitro-hydrocarbon, a propellent powder, a combustible non-explosive material, chlorin fixing material and a flame temperature regulating material.

1,376,030. DETONATING OR DISRUPTIVE EXPLOSIVE. FREDRICH OLSEN, Washington, D. C. Filed Jan. 15, 1921. Serial No. 437,580. 7 Claims. (Cl. 52—1.)

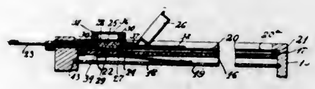
1. The herein described composition of matter, containing a nitro-starch explosive and a propellent powder.

1,376,031. NEWSPAPER-HOLDER. PETER OBEND, Cedar Rapids, Iowa. Filed Mar. 2, 1920. Serial No. 362,712. 2 Claims. (Cl. 129—36.)



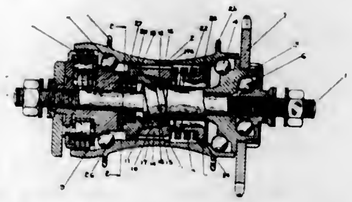
1. A newspaper-holder, comprising a rectangular frame of wire formed as a grid, with a central, twisted midrib, a handle connected therewith, a clamping wire hinged to the frame near one corner, and a fastener for the free end thereof attached to the opposite corner on the same side.

1,376,032. MEANS FOR AUTOGRAPHING SENSITIVE PHOTOGRAPHIC MATERIAL. JOHN W. OZOLS, Bridgeport, Conn. Filed June 12, 1918. Serial No. 239,616. 5 Claims. (Cl. 95—1.1.)



1. In a photographic autographic device the combination with means for inclosing and supporting a sensitive plate including a dark slide having an opening therein, a removable shutter for covering said opening, a ground glass for positioning in the opening, means for inclosing and positioning the ground glass comprising a housing having openings in its opposite sides, a closure cap covering the open side of the housing through which light is admitted, a movable bottom for covering the under side of said housing, and springs interposed between the housing and ground glass for forcing the latter into the opening of the dark slide when the shutter is withdrawn.

1,376,033. CLUTCH MECHANISM. VICTOR W. PAGÉ, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed May 22, 1915, Serial No. 29,893. Renewed July 13, 1917. Serial No. 180,484. 25 Claims. (Cl. 192—53.)



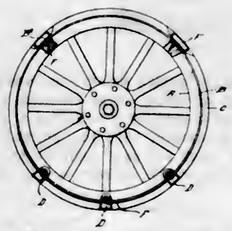
1. In a device of the character indicated, a driving member, a driven member, two clutches between said members, and means whereby upon actuation of said driving member in its driving direction one of said clutches is rendered effective and upon further actuation of said driving member in the same direction as before the other said clutch is rendered effective and continues so through successive cycles of operation of said driving member; substantially as described.

1,376,034. MEANS FOR PROTECTING BATTERY-ANODES. HERBERT R. PALMER, Cleveland Heights, Ohio, assignor of one-half to Charles A. Burke, Cleveland, Ohio. Filed Nov. 28, 1919. Serial No. 341,289. 1 Claim. (Cl. 204—29.)



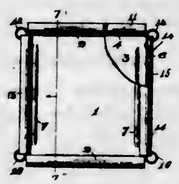
A battery electrode provided with a protective coating over the entire surface that is acted upon by the electrolyte, said coating being dry after its application and possessing properties which render it impervious to moisture when the battery is inert but which make it penetrable by the electro-chemical action of the elements when the battery is connected for use.

1,376,035. DEMOUNTABLE RIM. ORREL A. PARKER, Cleveland, Ohio. Filed Mar. 17, 1917. Serial No. 155,488. 5 Claims. (Cl. 301—25.)



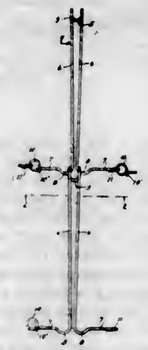
1. The combination with a wheel body, a portion of which is concentric and the remaining portion eccentric, of a felly band affixed thereto and having an inclined flange at the back, a demountable tire carrying rim adapted to fit upon said felly band, and rim fastening means attached to the eccentric portion of the wheel body and contacting with that portion of the rim contiguous to the eccentric portion of the wheel body.

1,376,036. BOX CONSTRUCTION. JAMES R. PEARSALL, Rochester, N. Y. Filed Aug. 3, 1918. Serial No. 248,216. 2 Claims. (Cl. 220—60.)



1. A box construction having six rectangular walls, each of which has plain opposite side edges and resilient abutments along the other two sides, the resilient abutments of each wall exerting a pressure on the outer faces of two opposite walls of the box to hold said walls against the opposite edges of still two other opposite walls of the box.

1,376,037. WIRE FABRIC. WILBER J. PINE, Oshkosh, Wis. Filed July 23, 1917. Serial No. 182,268. 2 Claims. (Cl. 245—5.)



1. A wire fabric comprising a plurality of interengaging units, each unit comprising a pair of shanks arranged adjacent each other, arms extending outwardly in opposite directions from the ends of the shanks, the other ends of the shanks being overturned to form hooks in parallel planes spaced from the plane of the shanks, and an integral connecting hook-shaped loop joining the ends of said first-mentioned hooks and serving to close the mouths of said hooks, said connecting loop extending in a plane spaced from the plane of said shanks so as to be positioned substantially in the plane of the outwardly extending arms of the adjacent unit, whereby upon separation of said last-mentioned ends of said shanks said loop will yield both torsionally and by straight deflection.

1,376,038. LIQUID GLOSS FOR POLISHED SURFACES. ALBERT T. QUATTLANDER, Astoria, N. Y. Filed Jan. 8, 1921. Serial No. 435,946. 2 Claims. (Cl. 134—24.)

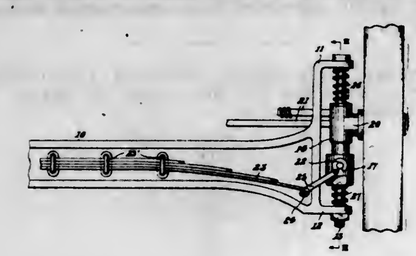
1. A liquid gloss of the character designated, composed of an admixture of lemon oil, turpentine, and ammonium acetate in substantially the relative proportions herein set forth.

1,376,039. BONNET-FASTENER. ALDAS S. RIDGLEY, Boston, Mass. Filed Feb. 17, 1920. Serial No. 359,391. 9 Claims. (Cl. 70—14.)



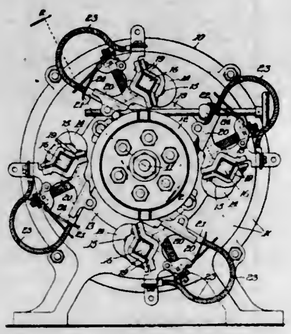
2. An automobile bonnet fastener composed of a plunger and a barrel connected for relatively telescopic but not rotary movement, and a spring drawing the plunger normally into the barrel; combined with an element rotatably mounted within the barrel and adapted to be turned into engagement with the plunger to prevent its withdrawal, and a lock controlling the turning of said element.

1,376,040. SPRING DEVICE FOR AUTOMOBILES. JOSEPH T. ROBERTS, Shelbyville, Ky. Filed Dec. 10, 1920. Serial No. 429,633. 5 Claims. (Cl. 267—29.)



5. In combination, a main axle member, a vertically disposed yoke at the end of the main axle member, a pin extending between the arms of the yoke, a sleeve slidably and rotatably mounted on the pin and having a reduced lower end screw threaded at its lower extremity, a stub axle projecting from the upper part of the sleeve, a cuff slidably and rotatably mounted on the lower part of the sleeve, a nut on the threaded portion of the sleeve to force the cuff upward therealong, a pair of pins projecting from said cuff, links each having one end pivotally mounted on a pin, and cantaliver springs each having one end fixed to the main axle member and its remaining end engaging the lower end of a respective link.

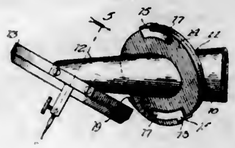
1,376,041. BRUSH-HOLDER. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Original application filed June 12, 1916, Serial No. 103,121. Divided and this application filed Nov. 6, 1919. Serial No. 336,109. 2 Claims. (Cl. 171—323.)



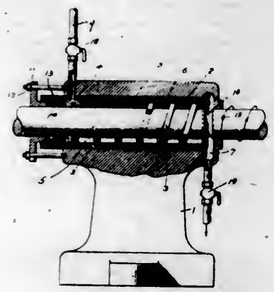
1. In a dynamo electric machine, a frame, a commutator, a brush-guide arranged in a line intersecting the surface of the commutator, a brush longitudinally movable in the guide, an arm extending parallel to the cylindrical surface of the commutator and supporting the said brush-guide, and a slotted member carried by the frame, having its slot parallel to the brush-guide, and means for securing the arm in adjusted positions along the length of the said slot, whereby by adjustment of the arm the brush-guide is moved in the direction of its length only.

1,376,042. TONE-ARM CONSTRUCTION. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed June 19, 1920. Serial No. 390,210. 4 Claims. (Cl. 274—24.)

1. A tone arm comprising a relatively fixed tapered conduit section, a circular flange secured to its end at an angle to its longitudinal axis, a second conduit section having a taper conforming to that of the fixed conduit section, a circular flange secured to the end of said second section, said flange mating with the first mentioned circular flange, and means for retaining said flanges in mating relationship while permitting relative movement of the second flange with respect to the first flange.



1,376,043. SHAFT-BEARING. CHARLES FREDERIC SHERWOOD, Los Angeles, Calif. Filed Feb. 24, 1920. Serial No. 360,703. 8 Claims. (Cl. 64—24.)



1. In a bearing, a bearing surface of resilient or yielding material and of spiral form adapted to support a rotating shaft and means for circulating a fluid between the spirals and in contact with the journal, said means consisting of an inlet for said fluid at one end of the spiral and an outlet at the opposite end of the spiral.

1,376,044. BRACKET FOR VEHICLES. IRVING A. SIBLEY, Jr., Chicago, Ill. Filed June 11, 1920. Serial No. 388,249. 5 Claims. (Cl. 293—55.)

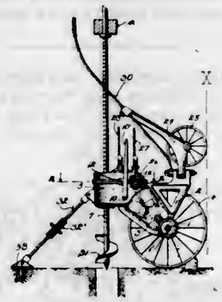


5. The combination with the chassis of an automobile having side-sills and a rear transverse bolster, of brackets each comprising a longitudinally elongated member the forward end of which is attached to said sill, which extends to the rear, and between said forward end and bolster is offset laterally and is supported by said bolster, and a bumper the ends of which are secured to the rear ends of said brackets.

1,376,045. POWER-DRIVEN POSTHOLE-EXCAVATOR. CHRISTIAN SKOTT, Milwaukee, MARTIN J. ROGNE and ELMER J. ROGNE, De Pere, Wis. Filed Oct. 19, 1920. Serial No. 417,909. 3 Claims. (Cl. 255—22.)

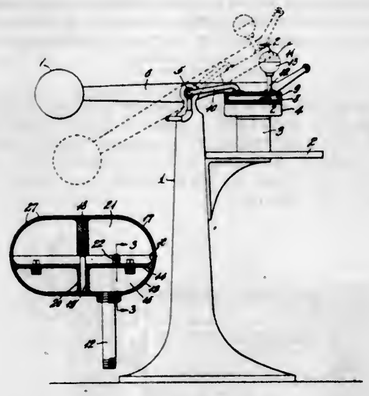
1. A power driven post hole excavator comprising an axle having tractor wheels, a truck wheel mounted upon the axle and adapted to swing thereabout for adjustment, a rear wheel pivotally connected to the frame having steering bearings, an anchor leg carried by the frame for

setting the same in predetermined adjusted working positions, and a power driven rotary spindle carrying an



excavating blade mounted in the frame and including means for rotating the spindle and for intermittently feeding the same longitudinally.

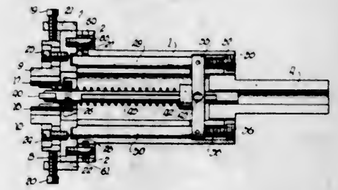
1,376,046. PUFF-IRON. ARTHUR E. SNOW, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed July 12, 1919. Serial No. 310,447. 2 Claims. (Cl. 68—26.)



1. A puff iron, comprising a hollow chambered cast metal base having a horizontal upper wall and an integral upwardly extending peripheral flange surrounding the same and forming a shallow pan shaped receiver for water of condensation, an inverted dome shaped perforated thin metal cover secured thereto with its edge resting upon said peripheral flange, and forming with said receiver a steam distributing chamber above said wall, means for supplying steam to the chamber in said base for heating the iron and vaporizing water of condensation collected upon said wall, and means for controlling the flow of steam from the base chamber to the chamber above said wall to be distributed through said perforated cover.

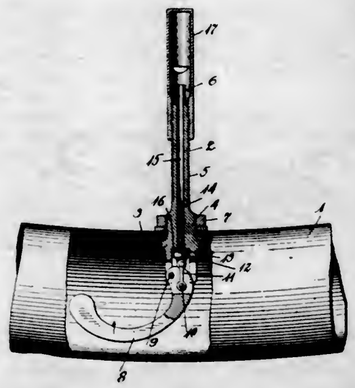
1,376,047. DIE-HEAD. LARENCE SPREITZER, Hammond, Ind., assignor to Edward Valve and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1919. Serial No. 308,751. 14 Claims. (Cl. 10—94.)

1. In combination, a body member having an axial bore and having guides arranged transverse to the bore, slide members mounted in said guides, means tending to force said slide members laterally, cutting jaws secured to said slide members, detent members for the slide members, said detent members being suitably guided on said body member, said slides having shoulders adapted to be engaged by said detent members, a contact member forming



a trigger, said contact member being mounted substantially axially of said bore, and being connected to said detent members, and spring means tending to hold the detent members in engagement with the shoulders of the slide members.

1,376,048. PNEUMATIC-TIRE NIPPLE. HUGO STOMMEL, Metuchen, N. J., assignor of one-half to Harry Raymond, Metuchen, N. J. Filed Aug. 9, 1919. Serial No. 316,462. 1 Claim. (Cl. 116—34.)

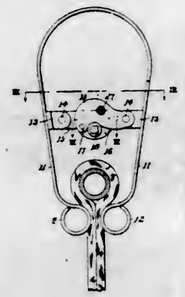


In a pneumatic tire, a tire nipple provided with a central passage the inner end of which terminates in a valve seat, a valve associated with said seat and provided with a stem projecting into the passage to guide the valve in its operations, spaced lugs on the inner end of the tire nipple, an operating arm pivoted at one end to the spaced lugs, and free at its other end, and a link pivoted to the valve at one end and at its other end to the operating arm intermediate the ends thereof, said arm being curved back to underlie its pivot to enter rearwardly thereof to effect the operation of the valve through a toggle action, whereby the arm is operable when the tire becomes partially deflated through leakage or puncture to unseat the valve and allow air to escape through the passage of the nipple, in combination with an audible alarm associated with the outer end of the nipple and operable by the escaping air.

1,376,049. ROBE-CLAMP. WILLIAM G. STRETCH, Washington, D. C. Filed Jan. 12, 1921. Serial No. 436,648. 3 Claims. (Cl. 70—17.)

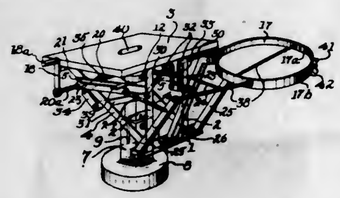
2. In a device of the kind described, a pair of legs yieldably connected for movement toward each other, gripping jaws on said legs, S-shaped links each having one end connected to the inside of a respective leg in spaced relation to its gripping jaw, a disk between said legs, pivot

connections between diametrical opposite points on the disk and the other end of each link, said links being arranged with their curvature oppositely disposed whereby rotation of the disk interlocks the ends of the links con-



nected thereto, and a polygonal projection extending from one side of the disk and forming means to receive a turning key, said projection being positioned to further constitute a stop in connection with one of the links and thereby limit rotation of the disk.

1,376,050. COMBINATION MILKING-STOOL AND PAIL-HOLDER. OSCAR A. STROMWALL, Foreston, Minn. Filed Apr. 29, 1920. Serial No. 377,488. 10 Claims. (Cl. 31—13.)



1. In a device of the class described, a vertically adjustable base, a seat and frame revoluble on said base, an extensible and retractile pail support mounted in said frame, a lever to extend and retract said pail support and another lever to adjust said pail support as to height.

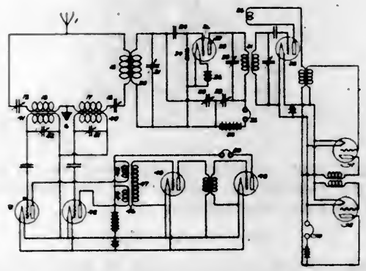
3. In a device of the class described, a base, a central post adjustable vertically in said base, a seat and frame revoluble upon said central post, a pail supporting ring movably mounted in said frame and means for extending and retracting said ring, comprising a shaft revoluble in said frame, arms rigidly mounted on said shaft and a series of levers and rods connecting said arms with said ring.

5. In a device of the class described, an adjustable base, a seat and frame revoluble on said base, an extensible and retractile pail support mounted in said frame, a pair of levers tiltably mounted at their lower ends in said frame and connected by rods to said pail support at their upper ends, another lever tiltable in said frame and joined to said pail support at its upper end, means for tilting said levers to extend and retract said pail support and means for tilting one of said levers to adjust said pail support as to height.

7. In a device of the class described, a base, a central post adjustable vertically in said base, a seat and frame revoluble upon said central post, a pail supporting ring movably mounted on said frame and means for adjusting the height of said ring comprising a rod mounted in said frame, a hand lever mounted on said rod, a notched quadrant mounted on said frame and means connecting said rod and ring.

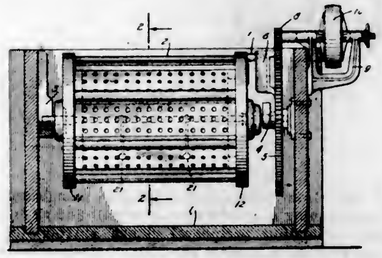
10. In a device of the class described, a base, a seat and frame revoluably mounted on said base, an extensible and retractile pail support mounted on said frame, means for extending and retracting said pail support, and means for adjusting said pail support as to height.

1,376,051. SIMULTANEOUS TRANSMISSION OR RECEPTION OF SPEECH AND SIGNALS. ALBERT HOYT TAYLOR, Grand Forks, N. D. Filed Apr. 10, 1919. Serial No. 289,149. 3 Claims. (Cl. 250—6.)



3. The combination in an apparatus for simultaneously receiving telephonic conversation and telegraphic signals, of separate circuits for receiving the telephone conversation intermittently on two widely different wave lengths and separate double heterodyne means for receiving the telegraphic signals on one of the two wave lengths.

1,376,052. CYLINDER FOR ELECTROPLATING APPARATUS AND THE LIKE. FLOYD T. TAYLOR and WESLEY F. HALL, Matawan, N. J., assignors to Munning-Loeb Company, Matawan, N. J., a Corporation of New Jersey. Filed May 13, 1918. Serial No. 234,213. 8 Claims. (Cl. 204—5.)

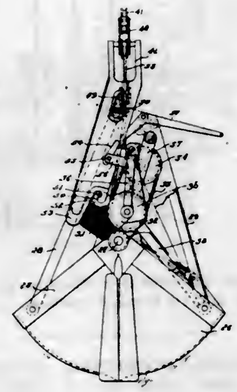


1. The combination of a vat adapted to contain a liquid, and a foraminous cylinder mounted to rotate therein, said cylinder having means whereby the cylinder in rotating lifts a material amount of the liquid from the vat and admits it to the interior of the cylinder.

1,376,053. EXCAVATING MECHANISM. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed July 1, 1918. Serial No. 242,736. 5 Claims. (Cl. 37—30.)

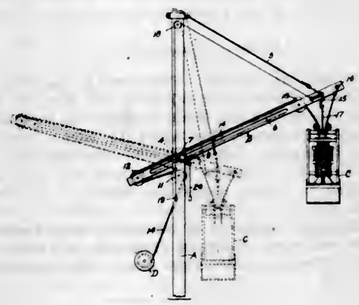
1. An excavating bucket comprising in combination a pair of scoop segments, a hinge for joining the segments so that they may be closed when the hinge is elevated and opened when the hinge is lowered, a sheave-block, means for connecting the sheave-block with the hinge whereby the hinge may be raised thereby to close the bucket, a support,

an operating cable for raising and lowering the sheave-block, a bail for connecting the sheave-block with the support whereby the sheave-block is supported so as to main-



tain the segments in closed position independently of the operating cable, and means for permitting the lowering of the hinge to open the segments while the sheave-block is thus supported.

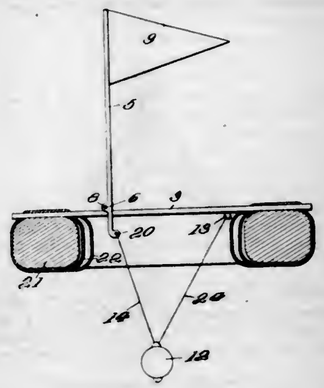
1,376,054. HOISTING-DERRICK. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Oct. 2, 1918. Serial No. 256,491. 8 Claims. (Cl. 212—55.)



1. A derrick comprising in combination, a mast provided with an opening, a boom mounted in the opening for longitudinal movement with respect to the mast, braking means on the mast and disposed in said opening adapted to releasably hold the boom at any position against longitudinal movement in either direction, and cable operating means for the boom.

1,376,055. MARK-BUOY FOR SEAWAYS. MAURICE VITRAC, Paris, France. Filed Aug. 13, 1919. Serial No. 317,300. 2 Claims. (Cl. 9—8.)

1. A mark buoy comprising in combination a ring float, two planks on one side of said float, means to connect said planks to said float, a pivoted mast on said planks, means connecting said float to a vessel and means to

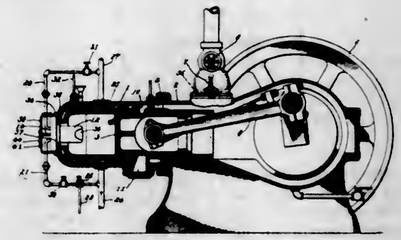


swing said mast into a vertical position when the vessel sinks relatively to said float.

1,376,056. METAL ALLOY. JOHN F. WANDERSEE, Highland Park, ROBERT PERETTO, Detroit, and THEODORE A. L. ALBRECHT, Royal Oak, Mich., assignors to Ford Motor Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 10, 1919. Serial No. 322,865. 7 Claims. (Cl. 75—1.)

1. Metal alloy, composed of carbon two to five per cent., cobalt thirty-five to sixty-five per cent., chromium and tungsten.

1,376,057. IGNITION. EDGAR T. WARNER, St. Michaels, Md. Filed Jan. 6, 1920. Serial No. 349,758. 1 Claim. (Cl. 123—143.)

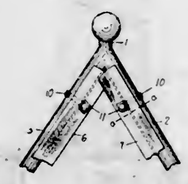


A heat retaining ignition member in the form of a plug projecting into the combustion space, the plug operating to ignite the new charge by means of the heat retained from the combustion of the preceding charge, the plug having a passage of small cross-section for cooling fluid, means for regulating the flow of the fluid through the passage, and a chamber with an external opening whereby a heating means may be applied to raise the temperature of the ignition member in starting, the chamber having an intermediate baffle to direct a fluid heat carrying medium in contact with the walls of the heating chamber.

1,376,058. REINFORCING MEANS FOR AUTOMOBILE RADIUS-RODS. OLIVER E. WATSON, Dayton, Ohio. Filed June 5, 1920. Serial No. 386,896. 4 Claims. (Cl. 267—66.)

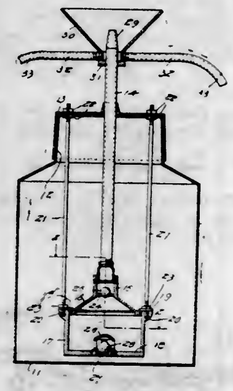
4. In a device of the type described, the combination with an axle of an automobile, of a V-shaped radius rod

structure, bolts for securing the front ends of said structure to the top portion of said angle, means for connecting the rear ends of a pair of T-irons to the rear part of the forked portion of said radius rod structure, and front



horizontal extensions on said T-irons for connection to the bottom of said axle by the bolts, at a point which allows the front ends of the flange portions of said T-irons to engage the side of the axle for the purpose specified.

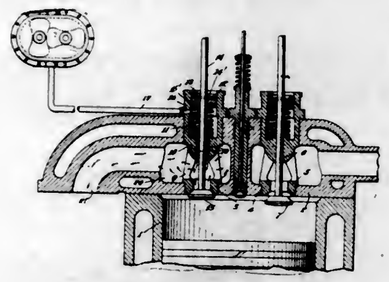
1,376,059. DRINKING DEVICE. GEORGE L. WELLER, Elyria, Ohio. Filed Nov. 10, 1919. Serial No. 337,076. 4 Claims. (Cl. 299—8.)



3. The combination with a fluid container or receptacle, having an upper open end, a cover for the upper open end of said receptacle or container having supporting rods depending therein, an upwardly opening cylinder carried by the inner ends of said rods, a piston shiftable vertically in the said cylinder, a hollow piston rod, the inner end of which is secured to the piston and the outer end of which is mounted through the cover, a fountain cup in connection with the external end of the hollow piston rod to catch the discharge therefrom and waste discharge pipes radiating from the said fountain cup and forming handles for the manipulation of the hollow piston rod in use.

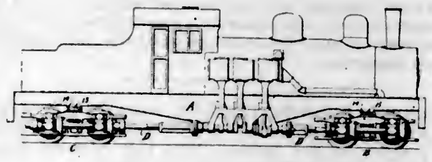
1,376,060. VALVE STRUCTURE FOR INTERNAL-COMBUSTION MOTORS. ALEXANDER WINTON, Lakewood, Ohio. Filed Apr. 25, 1919. Serial No. 292,687. 1 Claim. (Cl. 123—177.)

In an internal combustion motor, a cylinder, a head therefor having an exhaust valve cage opening and an exhaust chamber in communication therewith, an exhaust valve cage mounted therein and comprising a valve seat portion and an air chamber member connected therewith, said air chamber member having a valve stem opening therethrough and a series of air discharge openings surrounding said stem opening, an exhaust valve having a



stem passing through said stem opening, and means for supplying air to said air chamber member.

1,376,061. GEARED LOCOMOTIVE. WILLIAM E. WOODARD, Lima, Ohio. Filed Feb. 2, 1920. Serial No. 355,741. 2 Claims. (Cl. 105—117.)



1. A locomotive with power driven trucks and having a frame, said frame being supported by a center pin and side bearings on one truck and a center pin only on another truck.

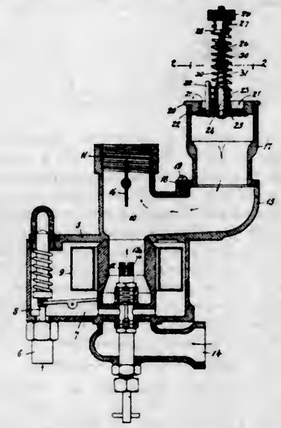
1,376,062. METAL ALLOY. THEODORE ALBRECHT, Royal Oak, ROBERT PERETTO, Farmington, and JOHN F. WANDERSEE, Highland Park, Mich, assignors to Ford Motor Company of Delaware, Highland Park, Mich., a Corporation of Delaware. Original application filed Sept. 10, 1919, Serial No. 322,865. Divided and this application filed June 7, 1920. Serial No. 386,971. 11 Claims. (Cl. 75—1.)

1. Metal alloy composed of chromium from twenty to thirty-five per cent., tungsten from five to twenty per cent., iron from one to fifteen per cent., cobalt and carbon.

1,376,063. AIR-VALVE FOR CARBURETERS. PER AUGUST ANDERSON, New York, N. Y. Filed Jan. 23, 1917. Serial No. 143,944. 1 Claim. (Cl. 251—145.)

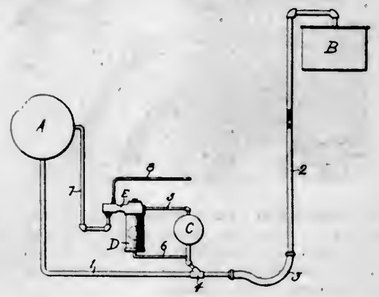
The combination of a tubular shell, means at one end of said shell whereby it may be detachably connected with a carbureter, a cap in screw-threaded engagement with the opposite end of said shell, a relatively reduced sleeve extending axially from said cap, the latter having a plurality of air inlets surrounding said sleeve and extending through said cap in an axial direction, a valve seat on said cap, a single valve coöperating with said seat to control all of said air inlets, a slidable stem connected with said valve and extending through and beyond said sleeve, the outer end portion of said stem being screw-threaded, a pair of springs of different tensions surrounding said stem and engaging said cap and sleeve respectively, a screw-threaded member adjustably mounted upon the screw-threaded

portion of said stem whereby the tension of both springs may be adjusted and a pin carried by said valve and ex-



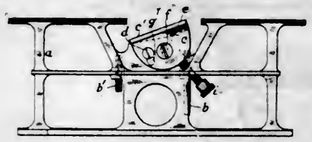
tending through one of said air inlets and arranged, by contact with the walls thereof to limit the rotative movements of said valve.

1,376,064. FLUID-PRESSURE-DELIVERY MECHANISM FOR LOCOMOTIVE-FEED-WATER-HEATER SYSTEMS. EARL A. AVERILL, Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company, New York, N. Y., a Corporation of Delaware. Filed July 1, 1919. Serial No. 308,042. 8 Claims. (Cl. 103—8.)



7. In combination, a feed water heater, a condensate delivery line from the heater, a connection between the heater and the delivery line in which condensate may accumulate, and means under the control of the accumulated condensate for preventing back flow to the heater.

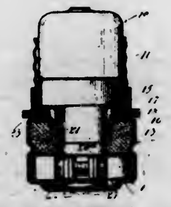
1,376,065. RAKER-GAGE FOR CROSSCUT-SAWS. AUGUST H. BASTIAN, Hillsdale, Oreg. Filed July 17, 1917. Serial No. 181,157. 2 Claims. (Cl. 33—202.)



1. In a tool of the character described, a body-piece comprising two lateral edge portions spaced apart and connected by an intermediate web, a gage-plate pivotally mounted on such web and provided with a slot, a clamping screw for the gage-plate located at one side of the axis of rotation of the latter, such clamping-screw being threaded in the web and bearing in said slot, and an adjustable screw having a fine thread engaging in the body-piece, said screw bearing against the rim of said gage-plate, to one side of its axis of rotation and operable to give the gage-plate very slight adjustment about its pivot.

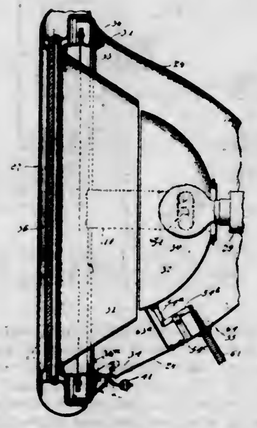
2. In a tool of the character described, a body-piece comprising two lateral edge portions spaced apart and connected by an intermediate web, a gage-plate pivotally mounted on such web and provided with a slot, the pivot bearing in a slot of one of the parts thereby connected, whereby the gage-plate is permitted lineal as well as arcuate adjustment, a clamping screw for the gage-plate located at one side of the axis of rotation of the latter, such clamping screw being threaded in the other part and bearing in said slot, and an adjustable screw having a fine thread engaging in the body-piece, said screw bearing against the rim of said gage-plate, to one side of its axis of rotation and operable to give the gage-plate very slight adjustment.

1,376,066. CONDUCTOR-GRIPPING DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 2, 1916. Serial No. 94,861. 3 Claims. (Cl. 173—322.)



2. An electrical connector comprising a wiring terminal; and conductor-gripping means comprising sheet-metal gripping members movable toward and from each other to grip the conductor, and insulating members of sheet-material for lining said sheet-metal gripping members.

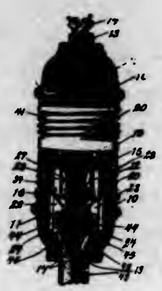
1,376,067. LIGHTING DEVICE FOR AUTOMOBILES. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1917. Serial No. 191,856. 8 Claims. (Cl. 240—44.)



4. The combination with an automobile of a lighting device comprising two reflecting members, means where-

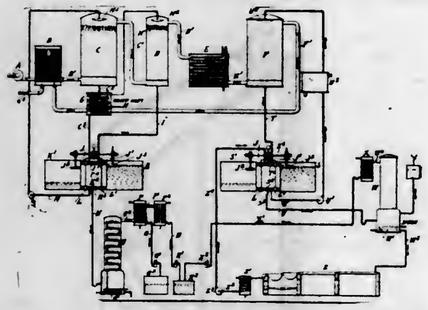
by the turning of the automobile will cause movement of one of said reflecting members, and means controlled by the driver of the vehicle for causing movement of the other reflecting member.

1,376,068. COMBINATION CAP AND SOCKET. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 7, 1919. Serial No. 302,408. 2 Claims. (Cl. 173—332.)



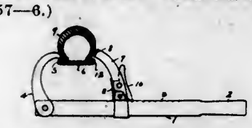
1. In a device of the character described, in combination, a hollow cylindrical housing open at each end, a substantially cylindrical spring contact mounting block fitted in said hollow cylinder, said block being fitted with slots to receive contact springs, means to associate said housing and block in assembled relation, said block being fitted at one end with openings to permit the entrance and exit of contact springs, the other end of said block being tapered and fitted with arcuated slots, said arcuated slots fitting in a neck of said cylindrical housing, the tapered slot arcuated ends of said block and the neck of said housing co-acting to serve as a cord grip for wires adapted to be secured to the contact springs secured to said block.

1,376,069. PROCESS FOR THE RECOVERY OF ALCOHOL AND ETHER FROM ADMIXTURE WITH AIR. EMILE BINDSCHEDLER, Philadelphia, Pa. Filed Aug. 2, 1920. Serial No. 400,586. 6 Claims. (Cl. 252.)



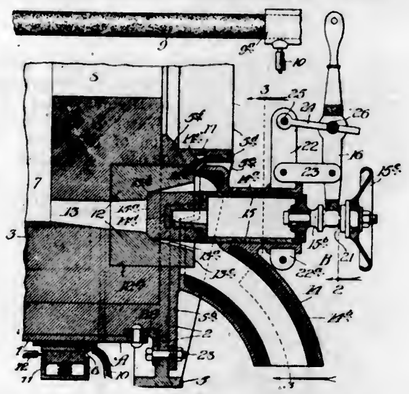
1. The method of recovering alcohol and ether from a mixture of their vapors with air, consisting of first bringing the mixture into intimate contact with water to bring about the absorption of the alcohol, subsequently bringing the air and ether mixture freed from alcohol into intimate contact with concentrated sulfuric acid to bring about the absorption of the ether and separating the alcohol and ether from said absorbents.

1,376,070. TIRE-TOOL. DANIEL M. BOONE, Harrisburg, Tex. Filed Jan. 6, 1920. Serial No. 349,748. 1 Claim. (Cl. 157—6.)



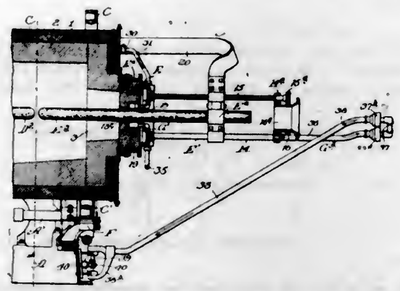
A tool of the character described, including a manual lever, one end of which is formed into a handle and one edge of which is provided with spaced notches, a hook pivoted to the other end of said lever and adapted to be engaged over one of the flanges of an automobile wheel rim, an arcuate push bar slidably mounted on the lever, a push plate formed integrally with the free end of said bar and adapted to rest against one side of the tire to be mounted, a dog pivoted to the push bar and one end of which is formed to engage in one of said notches, a spring attached to the push bar and pressing against the inner side of said dog to hold it in said engagement.

1,376,071. FURNACE. WILLIAM K. BOOTH, Chicago, Ill., assignor to the Booth Electric Furnace Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1919. Serial No. 347,334. 19 Claims. (Cl. 266—42.)



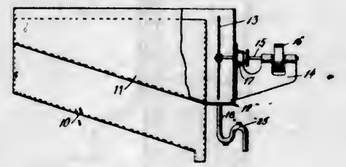
1. The combination with a furnace-body having a wall provided with a discharge passage and surrounding annular valve-seat, of a discharge spout and a valve associated therewith adapted to abut against said valve-seat and effect sealing of the passage.

1,376,072. ELECTRIC FURNACE. WILLIAM K. BOOTH and WILLIAM L. MORRIS, Chicago, Ill., assignors to the Booth Electric Furnace Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1920. Serial No. 372,474. 16 Claims. (Cl. 204—64).



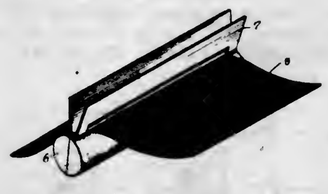
1. In an electric furnace, the combination of a furnace-body provided with a refractory lining, means for supporting said body and rotating it to any desired extent about its axis, electrodes extending through the end walls of said body at its axis of rotation, adjustable electrode supports mounted on the ends of said body and carrying said electrodes, means for supplying current to said electrodes, metal collars for said electrodes in the end walls of said body provided with water passages, and means for circulating water through said collars during rotative movement of the furnace-body about said axis.

1,376,073. FROTH-BREAKING DEVICE. WALTER O. BORCHERDT, Austinville, Va., assignor to the New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 26, 1919. Serial No. 319,967. 10 Claims. (Cl. 259—109.)



1. In combination with a flotation apparatus, a froth breaking device comprising a disk mounted for rotation about a substantially horizontal axis.

1,376,074. CIGARETTE-FORMING DEVICE. CHARLES S. BRANCH, Hammond, Ind. Filed Aug. 9, 1920. Serial No. 402,306. 2 Claims. (Cl. 131—5.)



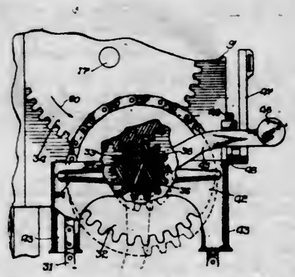
2. A cigarette forming device having two semi-cylindrical parts which are hinged together along their lower edges, and each of which is provided with integral semi-disks at each end, and an integral upwardly extending guide spaced inwardly from the abutting edges of the semi-disks, each of said guides being provided with a longitudinal slot near its lower edge.

1,376,075. CUFF-LINK. RUDOLF BRETTNER, Newark, N. J. Filed June 19, 1919. Serial No. 305,320. 6 Claims. (Cl. 24—102.)



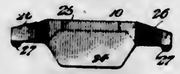
1. In a device of the character described, the combination of a hollow post, a rod therein, having a branch section, a spring adapted to normally press the said rod outward, a link flexibly secured at the base of the hollow post and adapted to detachably engage the branch section of the rod substantially as shown and described.

1,376,076. AUTOMATIC FIRE-SHUTTER. CHARLES H. BUELL, Chicago, Ill., assignor to Variety Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1919. Serial No. 343,319. 5 Claims. (Cl 189—58.)



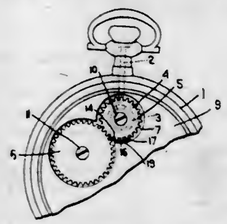
1. In combination, a fire shutter, thermally controlled means for automatically closing said shutter, a chain hoist for manually operating said shutter through eccentrically mounted gears, and thermally controlled means for releasing said eccentrically mounted gears from engagement with said shutter simultaneously with the automatic closure of said shutter.

1,376,077. MACHINE-CLAMP. HARRY CADWALLADER, Jr., Philadelphia, Pa. Filed Mar. 13, 1919. Serial No. 282,453. 2 Claims. (Cl. 90—59.)



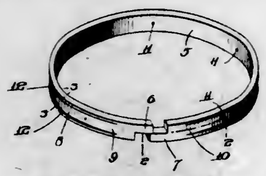
1. In a clamp for machine work, a body part having a longitudinally disposed slot therein, a jaw formed on one end of said body and extending laterally therefrom, a rounded projection formed on one side of said jaw to contact with work to be clamped, a pair of flanges formed respectively at opposite edges of said body and extending in the same direction as said rounded projection, said flanges having a depth greater than the thickness of said jaw and respectively merging into one face of said jaw, and means between said flanges and traversing said slot for clamping said body and jaw to hold said work.

1,376,078. RECOIL-PAWL. KNUT S. CARLSTROM, Waltham, Mass., assignor of one-half to Joseph H. Studholme, Waltham, Mass. Filed June 8, 1918. Serial No. 238,888. 1 Claim. (Cl. 58—86.)



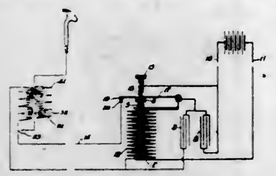
In a watch, the combination with a plate having a crown-wheel-receiving recess, of a crown wheel rotatably mounted in the recess, a ratchet wheel meshing with the crown wheel, a stop member interposed between the crown wheel and the bottom of the recess and having sufficient frictional engagement with the crown wheel to be turned thereby as the wheel rotates, said stop member permitting free rotation of said wheel in a forward direction, and being provided with an arm situated to be carried into engagement with the intermeshing teeth of said wheels at their point of intermeshing by a backward rotation of the crown wheel.

1,376,079. PISTON-RING. LEMUEL T. COOPER, Philadelphia, Pa. Filed June 26, 1917. Serial No. 176,952. 1 Claim. (Cl. 74—109.)



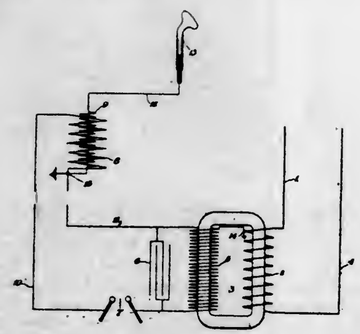
A piston packing comprising a split ring with ends recessed to form an overlapping joint, and provided with a single relatively shallow continuous peripheral channel terminating at points adjacent the two ends, said channel extending across the greater portion of the width of the ring and flanked by comparatively narrow flanges, the peripheral surface of the flanges and of the overlapping ends being flush, said ring also provided with a plurality of apertures extending from the bottom of the channel to the inner surface of the ring, said apertures having such aggregate area, relative to the clearance, as to secure a pressure equilibrium on both sides of the ring.

1,376,080. HIGH-FREQUENCY MACHINE. CHARLES W. DE MOOY, Cleveland, Ohio, assignor to The De Mooy Electric Co., Cleveland, Ohio. Filed Aug. 20, 1917. Serial No. 187,272. 5 Claims. (Cl. 250—36.)



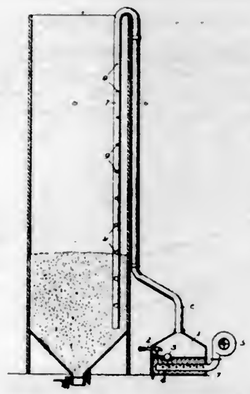
1. A high frequency machine comprising in electrical circuit; a source of current, an induction coil including primary and secondary windings, an armature, a condenser connected with each of said windings, and a device including a secondary spark gap controlled by the movement of said armature for delivering high frequency discharges.

1,376,081. HIGH-FREQUENCY GENERATOR OF THE TRANSFORMER TYPE. CHARLES W. DE MOOY, Cleveland, Ohio, assignor to The De Mooy Electric Co., Cleveland, Ohio. Filed Aug. 20, 1917. Serial No. 187,273. 1 Claim. (Cl. 250—36.)



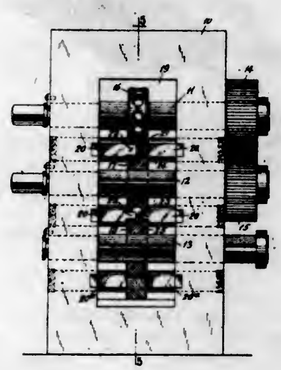
A high frequency machine of the transformer type for alternating current usage, comprising in electrical circuit; a transformer having grounded primary and secondary windings, a condenser, an induction coil also having grounded primary and secondary windings, and a flexible insulated cord connecting said induction coil with the other parts for the purpose specified.

1,376,082. METHOD OF PREVENTING EXPLOSIONS. ROWAN T. F. DODDS, Stratford, Ontario, Canada. Filed May 10, 1920. Serial No. 380,203. 8 Claims. (Cl. 98—26.)



6. The method of preventing explosions in grain elevators, comprising supplying additional water vapor to the interior of said elevators during the filling thereof, said water vapor being automatically supplied at progressively higher levels as the bins become filled, to maintain an effective stabilizing minimum of moisture therein at all times, substantially as described.

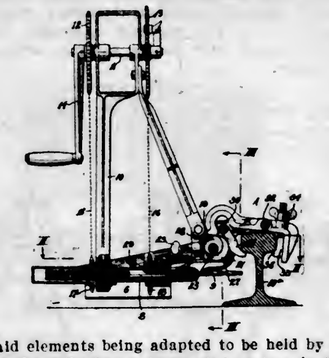
1,376,083. APPARATUS FOR ORNAMENTING LEAD. GEORGE DURHAN, New York, N. Y. Filed May 13, 1919. Serial No. 296,859. 1 Claim. (Cl. 80—30.)



An apparatus of the kind described comprising a frame, a pressure wheel, the peripheral surface of which is arranged to displace the lead into predetermined ornamental form, a pair of jaws extending into engagement with opposite surfaces of said wheel and a pair of tongues extending from said jaws inwardly beyond said wheel surfaces to resist the pressure of said wheel.

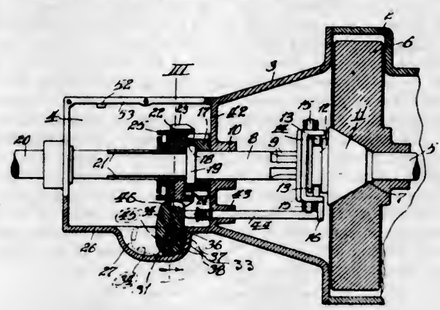
1,376,084. DRILLING-MACHINE. WALTER C. DYER, Chicago, Ill., assignor to The Buda Company, a Corporation of Illinois. Filed Jan. 23, 1919. Serial No. 272,619. 6 Claims. (Cl. 77—9.)

1. In a rail drilling machine, the combination of a frame, an outer rail gripping element pivoted to the frame, an inner rail gripping element pivoted to said frame, and a common means for operating said gripping elements,



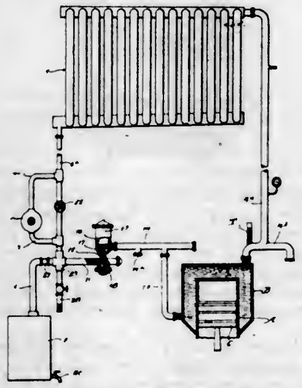
both of said elements being adapted to be held by gravity away from the rail when not operated on to grip the rail.

1,376,085. LOCKING DEVICE FOR VEHICLES. CLINTON C. EPPS, Bristow, Okla. Filed May 5, 1919. Serial No. 294,736. 8 Claims. (Cl. 70—126.)



2. In a locking device, the combination of a transmission gear, a clutch, a member for engagement with the teeth of said gear, means for locking said member in its operative position and means coöperable with said member and said clutch whereby said clutch is prevented from being withdrawn from clutching engagement.

1,376,086. AUTOMATIC COOLING SYSTEM. MILTON D. M. FAIRMAN, South Brownsville, Pa. Filed Jan. 17, 1920. Serial No. 352,099. 3 Claims. (Cl. 123—170.)



1. In a cooling system, a cylinder, a jacket surrounding said cylinder, a condenser, a vapor pipe communicating with said jacket and with the inlet of the condenser for conveying a vaporized cooling liquid to said condenser, a return pipe communicating with the outlet of the condenser and with the jacket, a pressure fluid operated motor, and means for optionally by-passing the liquid from the return pipe through said motor.

1,376,087. EDUCATIONAL FURNITURE TOY. HELEN M. FLIEDNER, Cleveland, Ohio. Filed June 6, 1919. Serial No. 302,130. 35 Claims. (Cl. 46—37.)



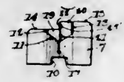
1. An educational furniture toy composed of a single sheet of foldable material of predetermined shape depending upon the article of furniture intended to be produced, said sheet being fashioned with slits, and a plurality of definitely spaced creases extending between different slits respectively whereby double ply legs may be obtained by folding along said creases.

1,376,088. DISPENSING-NOZZLE FOR BOTTLING-MACHINES. WILLIAM M. FOWLER, Sound Beach, Conn. Filed June 23, 1920. Serial No. 391,115. 10 Claims. (Cl. 221—80.)



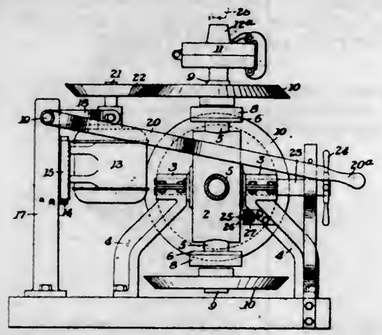
1. A dispensing nozzle including a casing having an inlet and an outlet, a barrel slidable in said casing, stops carried by the barrel for limiting its downward and upward movements, a reciprocating plunger within the barrel and a frictional connection between the plunger and barrel whereby the plunger is first movable with and then along the barrel in both directions to control the admission and discharge of the fluid.

1,376,089. GUN-SIGHT. HERMAN R. FRENSDORF, Kimberly, Wis. Filed Sept. 9, 1918. Serial No. 253,231. 4 Claims. (Cl. 33—47.)



1. A gun sight having a V-notch and inwardly beveled portions on the rear side of the sight defining a center line meeting the apex of the notch.

1,376,090. DIE-CASTING APPARATUS. JOHN L. GRABER, Pittsburgh, Pa. Filed Dec. 27, 1919. Serial No. 347,792. 3 Claims. (Cl. 22—65.)

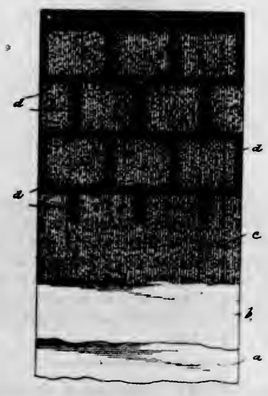


1. Die-casting apparatus, comprising a head or turret mounted for rotation about a horizontal axis, a plurality of mold carriers on said head or turret, each of said carriers having means whereby it may be rotated and also having a socket member, and a plurality of molds, each of said molds having a projecting portion or stem adapted for removable rotative engagement with one of said socket members, substantially as described.

1,376,091. REFRACTORY MATERIAL. MINER L. HARTMANN, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed May 17, 1920. Serial No. 381,955. 4 Claims. (Cl. 106—11.)

1. A refractory article containing carborundum and a bonding material containing mixtures of zirconium and aluminum silicates.

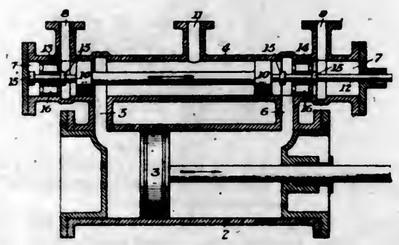
1,376,092. WATERPROOF COVERING AND PROCESS OF MAKING SAME. OTTO A. HEPPES, Chicago, Ill. Filed Apr. 19, 1919. Serial No. 291,302. 3 Claims. (Cl. 91—67.9.)



1. A waterproofing element consisting of a saturated backing sheet having an adhesive coating, a granular facing of a predetermined color applied over the entire area of said adhesive coating so as to effectively cover the same and be partially embedded therein and a second granular facing of a different color than the first applied to predetermined areas of said facing and partially embedded in the coating, said second facing contacting with and filling the interstices between first granular facing.

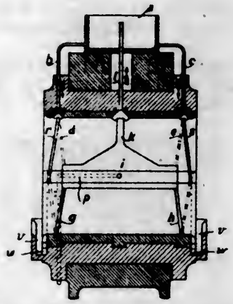
2. A process of making prepared water proofing elements consisting in applying adhesive coating to a backing length, entirely covering said adhesive coating with a granular facing of predetermined color, partially embedded in said coating and then applying a granular facing of a different color than the first to predetermined areas of the sheet and partially embedding said second granular facing in said coating without, however, exposing the latter.

1,376,093. STEAM-ENGINE VALVE. ERNEST H. HOLMES, Point Pleasant, W. Va. Filed July 21, 1919. Serial No. 312,140. 4 Claims. (Cl. 121—135.)



1. The combination with a steam engine cylinder and its valve chest, the latter having an extension chamber at each end provided with an exhaust port, said ports constituting the only means of escape for the exhaust from the cylinder, and the cylinder having a combined inlet and exhaust port at each end portion thereof communicating with the valve chest and with one of said chambers, of a mechanically actuated piston valve for controlling the said ports, said valve consisting of a main portion rigidly connected to its valve stem, and two auxiliary valves arranged to open and close the said exhaust ports from the extension chamber, said valves being loosely mounted on said stem and arranged to have negative lap when closing and positive lap when opening their respective ports, substantially as described.

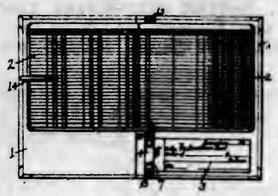
1,376,094. MEANS FOR LUBRICATING BEARINGS. WILHELM HOLTORF, Hamburg, Germany. Filed Nov. 9, 1916, Serial No. 130,341. Renewed Dec. 2, 1919. Serial No. 342,012. 4 Claims. (Cl. 64—24.)



1. A lubricating bearing comprising a bushing having a pair of outer grooves and an inner groove, a pair of receptacles located in the indifferent zones of said bushing opposite each other, one of said receptacles communicating with the outer grooves, while the other receptacle communicates with the inner groove, an oil cup, and pipes that connect said oil cup with said outer grooves and inner groove.

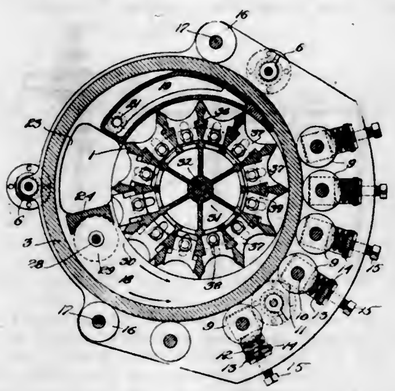
3. In a bearing having an oil cup on either side below the shaft, a groove running around the shaft, an ascending groove having a rounded edge on one side and ascending from the lowest part of the circular groove up to the shaft.

1,376,095. BANK-CHECK, RECORD-BOOK, AND BINDER. MORTIMER A. HOWE, Tacoma, Wash. assignor to Pioneer Bindery and Printing Company, Tacoma, Wash., a Corporation. Filed Aug. 9, 1920. Serial No. 402,095. 2 Claims. (Cl. 281—17.)



1. An office check and record book, comprising a book of checks or the like, formed of a multiple of checks or pad of checks, a record-book to contain the record of checks and bound in a flexible cover, and a binder having an upset metallic strip fixed at its middle to receive the rear cover of said record-book, a book-mark clamp at the outer edge of the binder to hold the front cover and leaves of said record-book and so operate as to secure the rear cover within said metallic strip at the middle of said binder, the binder extending beyond the record-book to form a base for the body of checks, and means for detachably securing the pad of checks on said extended part of said binder.

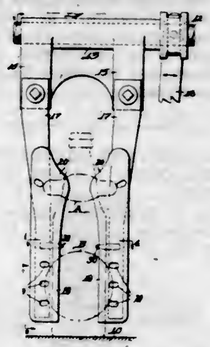
1,376,096. MACHINE FOR MAKING BRIQUETS. CHARLES D. JENKINS, Boston, Mass. Filed May 1, 1915. Serial No. 25,135. 4 Claims. (Cl. 25—75.)



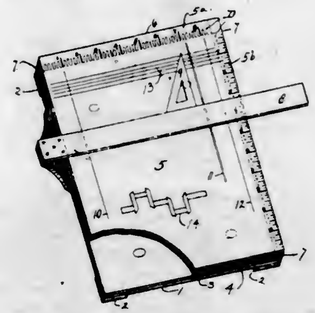
2. A machine of the character described comprising a pair of rotatable members consisting of a ring, a wheel, eccentrically arranged within the ring, one of said members provided upon its periphery with molding pockets, and a heated shoe within the crescent-shaped chamber between said members, along which the molded material is carried by rotation of said members.

1,376,097. LABEL-PICKING DEVICE. JOHN EMANUEL JOHNSON and CHARLES H. OSLUND, Worcester, Mass., assignors to The O. & J. Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 21, 1919. Serial No. 283,968. 7 Claims. (Cl. 216—13.)

1. The combination with a label picker support, of a shaft thereon parallel therewith, means for supporting an article to be labeled in position parallel with said shaft and adjacent thereto, a label picker carried by said shaft and adapted to swing thereon independently of said support, said support being of channel form, a spring connected with said picker, and means extending through said support to the rear side thereof and along the same for normally swinging the picker into operative position.

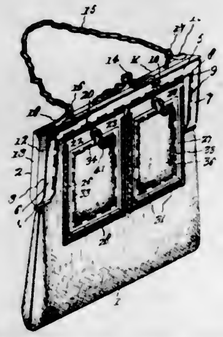


1,376,098. DRAWING-PAD DEVICE. HENRY P. JONES, Buffalo, N. Y. Filed Aug. 25, 1920. Serial No. 405,854. 3 Claims. (Cl. 283—45.)



1. A drawing pad comprising a plurality of sheets cut to rectangular shape and glued together at one edge thereof and a marginal strip to each sheet divided from the same by a weakened line whereby said strip may be easily torn from the body of the sheet, and a series of equally spaced divisions marked lengthwise on said strip.

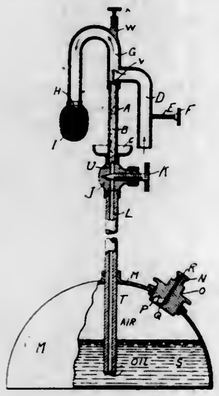
1,376,099. LADY'S HANDBAG. MAX KAUFMAN, Brooklyn, N. Y. Filed July 31, 1920. Serial No. 400,403. 2 Claims. (Cl. 150—34.)



1. A lady's hand bag comprising a main frame openable at its top, a bag body secured to the main frame, a supple-

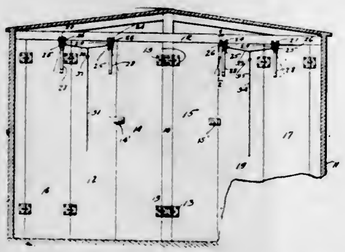
mental frame hinged at its top to the side of said main frame, a closure frame hinged at its lower end to the lower end of the supplemental frame and adapted to be swung upwardly thereagainst to provide a receptacle, and independent fastening means for said main and closure frames arranged at the tops thereof, whereby ready and independent access may be had to the interior of the bag body and the receptacle.

1,376,100. PROCESS FOR GENERATING AND UTILIZING HYDROCARBON VAPORS OR GASES. JAMES PICKERING KENDALL, New York, N. Y., assignor, by mesne assignments, to Kendallite Company, Inc., New York, N. Y., a Corporation. Filed Mar. 14, 1918. Serial No. 222,432. 3 Claims. (Cl. 48—197.)



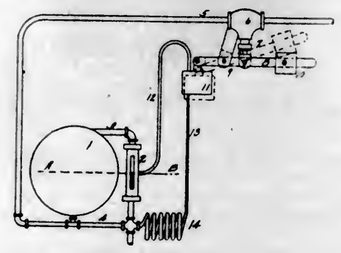
1. The process of preventing accumulation of carbon deposits in hydrocarbon vapor generators for intermittently operated burners, which consists in heating a generator containing barium oxid in the presence of air to such a temperature as to form barium peroxid, delivering thereto a hydrocarbon liquid containing an oxidizing agent thereby producing hydrocarbon vapor and further converting the barium oxid to barium peroxid, and burning the vapor outside of the generator to thereby heat the generator to a higher temperature and continue the production of vapor, and to reconvert barium peroxid to barium oxid with liberation of oxygen at high temperature and oxidation of any deposited carbon, the barium oxid being partially reconverted to barium peroxid during the cooling following the shutting off of hydrocarbon from the generator.

1,376,101. DOOR-CATCH. EDISON B. KINSEY and ALBERT KINSEY, Prairie Depot, Ohio. Filed Dec. 22, 1919. Serial No. 346,696. 1 Claim. (Cl. 292—50.)



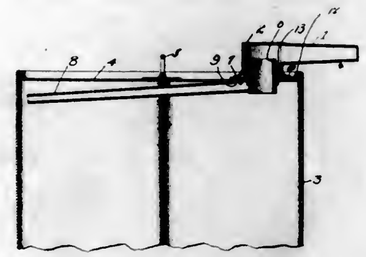
A swinging gravity latch comprising a plate having one end extending at right angles to the body thereof and formed with a longitudinal slot, a keeper, and a vertical weighted bar pivotally supported on the said plate with its upper end disposed through said slot for sliding movement, and an apertured lug secured to the weighted bar and extending from one edge thereof.

1,376,102. BOILER FEED-WATER REGULATOR. DAVID R. KNAPP, Pottsville, Pa. Filed Apr. 10, 1920. Serial No. 372,919. 2 Claims. (Cl. 137—101.)



1. In a feed water regulator of the character described for a steam boiler, a valve in the feed line, a weight adapted to operate the valve in one direction, a receptacle operatively connected to the valve to operate it in the opposite direction, said receptacle being in communication with the boiler at and below the water level and a cooling coil inserted in the communicating line that is below the water level, substantially as described.

1,376,103. DISPENSING CAN OR RECEPTACLE. FRANK J. KROGMANN, Eureka, Calif. Filed Mar. 16, 1920. Serial No. 366,289. 1 Claim. (Cl. 221—28.)



In a device of the class described, the combination with a body provided with a top, of a sleeve carried by said top, said top provided with a vent opening near the sleeve, a cap provided at one side with a funnel-like spout, said cap being outwardly flared at its lower end, a broad rubber washer placed against the lower flared end of the cap, means fastening said flared end to said washer, said washer engaging the outer face of the sleeve, and an internally threaded sleeve within the cap and engaging at its lower end the inner face of the rubber washer and being threaded upon the first-mentioned sleeve, substantially as shown and described.

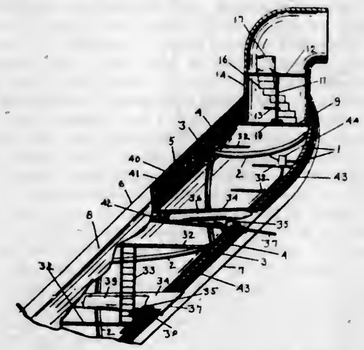
1,376,104. SPRINKLER-HEAD. GUNNAR O. LILJEGREN, Chicago, Ill., assignor to The Viking Corporation, Hastings, Mich., a Corporation of Michigan. Filed Feb. 24, 1920. Serial No. 360,611. 2 Claims. (Cl. 169—42.)

2. A fusible link for connecting the members of a strut and consisting of a pair of duplicate plates united by fusible material, each plate having a marginal slot at the central portion of one of its ends, a hole near its other end and a central arcuate tongue extending from the inner end of its hole through the slot of the companion plate to provide anchors for solder blocks, the upper and lower portions of each plate being offset and



connected by an oblique transverse web at its center which abuts with the opposed web when the plates are assembled, recesses in the oblique webs forming seats, and balls in the seats.

1,376,105. SUBMARINE DESTROYER. CARL J. LINDQUIST, New York, N. Y., assignor of one-half to Paul C. Hayes, Toledo, Ohio. Filed Jan. 28, 1916, Serial No. 74,750. Renewed Feb. 12, 1921. Serial No. 444,538. 12 Claims. (Cl. 114—17.)



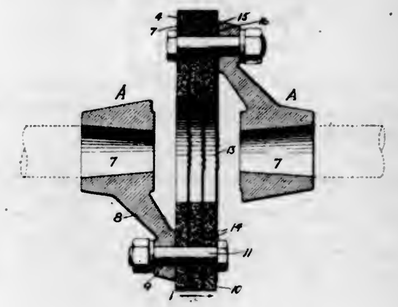
1. A vessel having a normally floating stern in surface travel, the remainder of the vessel being submerged, a stabilizing rib extending from the prow to the stern, and a propeller at the prow.

1,376,106. METHOD OF AND APPARATUS FOR HEAT-TREATING STRUCTURAL MEMBERS. ANGUS S. MACDONALD, Great Neck Station, N. Y., and HARRY P. MACDONALD, Montclair, N. J., assignors to The Snead & Co. Iron Works, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 18, 1918. Serial No. 229,241. 9 Claims. (Cl. 266—4.)



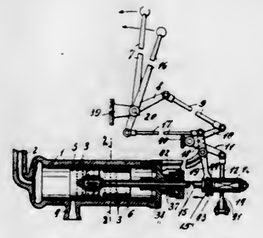
1. A combined heating and quenching apparatus for the heat treatment of metallic objects, comprising in combination means for supporting the article, means for heating the article by its internal resistance to the passage of a current of electricity therethrough, and means whereby a quenching medium may be applied to the article *in situ*.

1,376,107. FLEXIBLE JOINT. HARRY P. MACDONALD, Montclair, N. J., assignor to The Snead & Co. Iron Works, Jersey City, N. J., a Corporation of New Jersey. Filed May 17, 1919. Serial No. 297,779. 13 Claims. (Cl. 64—96.)



1. A flexible joint of the character described comprising in combination a pair of opposed members, flexible disk like means coupling said members, and means forming part of the disk preventing said members from rotating out of their true centers and sufficiently elastic to take care of angularity or end motion in the joint.

1,376,108. ROAD-SPRINKLER. HEINRICH MAYER, GUSTAV SCHLATTER, and ADOLF BALTENSWEILER, Arbon, Switzerland, assignors to Firm of Adolph Saurer, Arbon, Switzerland. Filed July 22, 1916. Serial No. 110,700. 7 Claims. (Cl. 299—108).

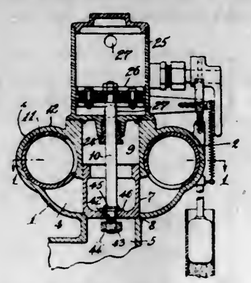


7. In a road sprinkler, a head having means for the supply of water thereto and provided with a washing spray port at the bottom and with perforations at one side, and single means for covering and uncovering said port and perforations.

1,376,109. VALVE MECHANISM. ERNEST W. MILLER, Cincinnati, Ohio, assignor to the American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 2, 1916. Serial No. 134,618. 9 Claims. (Cl. 277—55.)

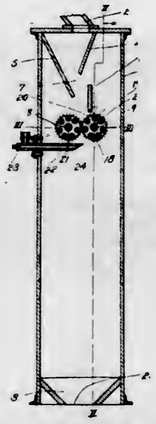
1. Valve mechanism, comprising a valve casing provided with a mixing chamber and with communication to two separate liquid supplies, two parallel cylindrical hollow valves rotatable in said casing, each valve at one end

being open to one of said supplies and provided with a lateral port adapted to be moved into and out of regis-
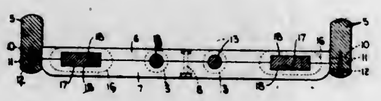


tration with an opening to said chamber, and means for operating said valves.

1,376,110. DEVICE FOR AERATING AND MATURING FLOUR. WILLIAM G. MILLER, deceased, by Minnie Miller, administratrix, Kansas City, Mo., assignor to Clarence M. Hardenbergh, Henry Vilm, Paul Pandemalvy, and Minnie Miller, Kansas City, Mo. Filed Aug. 25, 1919. Serial No. 319,741. 2 Claims. (Cl. 83—42.)



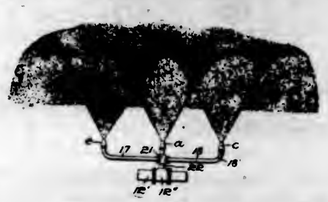
2. A flour stream subdividing roll comprising disk-shaped heads of rubber, spaced rods arranged equi-distantly about the axes of the head and connecting said heads, and rubber spacing sleeves on the rods between the heads.

1,376,111. SHOE-RACK. EDWARD F. O'BRIEN, Somerville, Mass. Filed June 19, 1919. Serial No. 305,380. 1 Claim. (Cl. 211—14.)



In a shoe rack, the combination with uprights, of shelves supported thereby and comprising bars extending longitudinally thereof, said bars having portions of reduced diameter, and brace elements extending transversely of the shelf, each brace element comprising an upper and a lower brace member between which said bars extend and which are provided with recesses to receive the necked portions of said bars, and means to clamp said brace members together.

1,376,112. METHOD OF SPRAYING WATER IN COOLING-PONDS. LEE H. PARKER, Boston, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Feb. 5, 1916, Serial No. 76,297. Divided and this application filed Jan. 4, 1917. Serial No. 140,635. 7 Claims. (Cl. 62—177.)

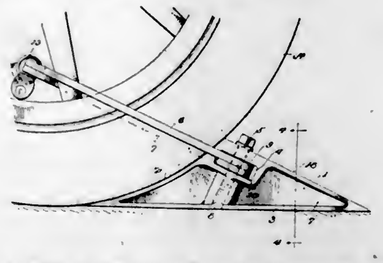


1. That method of cooling the water of cooling ponds which comprises discharging the water to be cooled from points adjacent to the surface of the pond, in substantially vertically directed jets arranged in longitudinally extending, parallel rows of groups along parallel lines of suppy; providing in each group a plurality of such substantially vertically directed jets arranged in rectangular series along the line of supply to the jets of each row; maintaining the said jets of each group at substantial equidistance from each other and at such distance that taken with their substantially vertical direction they impinge upon each other only at a relatively great height above the surface of the pond and after material cooling of the drops of the jets has been effected; maintaining the jets of each group at the same distance from each other that a transversely arranged pair thereof are from the nearest transversely arranged pair of jets of the next adjacent group, whereby the air is permitted to circulate freely parallel to the surface of the pond across the line of supply of each row of groups and also upwardly between the groups of each row; and maintaining a wider spacing between the jets of adjacent rows of groups than between the jets of the groups of the same row of groups, whereby free circulation of air is permitted longitudinally of and between adjacent rows of groups.

1,376,113. METHOD OF PRODUCING FERRO-SILICO-MAGNESIUM ALLOY. GUSTAV PISTOR, Frankfort-on-the-Main, and ALBERT BEIELSTEIN and ADOLF BECK, Bitterfeld, Germany, assignors to the Firm of Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 11, 1916. Serial No. 130,908. Renewed Feb. 7, 1921. Serial No. 443,222. 1 Claim. (Cl. 75—1.)

The method of producing an alloy containing magnesium for use as a deoxidizing agent for iron and cast steel consisting in melting ferro-silicon to a semi-fluid state and adding magnesium thereto while in said state.

1,376,114. VEHICLE-WHEEL LOCK. JAMES LEWIS RANEY, Cleveland, Ohio. Filed Mar. 2, 1920. Serial No. 362,796. 2 Claims. (Cl. 70—90.)



2. A device for the purpose set forth comprising a substantially triangular block having a flat base to rest upon

the ground and having a longitudinally extending convex face to engage a wheel, the block being provided with a chamber opening through its lateral faces, a pivot permanently secured in the block and extending through the said chamber, and wheel-embracing arms mounted upon said pivot.

1,376,115. ATTACHMENT FOR PENCILS OR PENS. ADAM F. RECORD, Kokomo, Ind. Filed Oct. 5, 1920. Serial No. 414,807. 4 Claims. (Cl. 120—103.)



1. An attachment for pencils and the like comprising a reversible sleeve having each end forming a feather edge and having an annular enlargement, there being concave annular surfaces diverging inwardly from the annular enlargement, that portion of the sleeve between its center and one end being a duplicate of the other half of the sleeve.

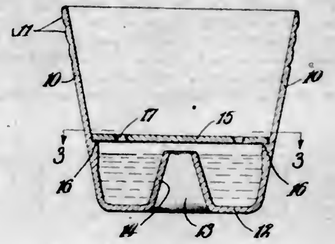
1,376,116. CALENDAR AND CARD HANGING DEVICE. OSCAR REGEN and JAMES CASTELLE, New York, N. Y. Filed Nov. 13, 1920. Serial No. 423,931. 1 Claim. (Cl. 40—119.)



A flexible hanger for calendars and cards with a single perforation, having central and side loops, of which the central loop is extended rearwardly through the single perforation of a calendar or card and is provided with a knot at the rear of the calendar or card to prevent accidental displacement and means connecting the side loops and preventing passage thereof through the perforation.

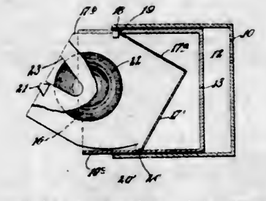
1,376,117. FLOWERPOT. FERDINAND SANDOR, Theresa, Saskatchewan, Canada. Filed Mar. 30, 1920. Serial No. 369,996. 2 Claims. (Cl. 47—19.)

2. A flower pot having an integral bottom, formed with a central opening, an upwardly projecting flange of frusto-conical shape surrounding said opening, a series of lugs projecting inwardly from the sides of the pot, and a disk freely supported on said lugs, said disk having a series



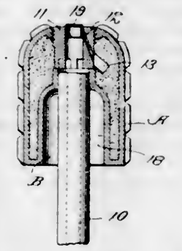
of apertures formed therein and registering with the annular space surrounding said flange.

1,376,118. FILING-CASE FOR TALKING-MACHINE RECORDS. GEORGE SCHLEMMER, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,464. 1 Claim. (Cl. 211—16.)



A case containing a plurality of juxtaposed cells for talking machine records, a series of wrappers in each of said cells, projecting lugs on one edge of said wrappers at a point between opposite ends of said edge, the adjacent interior wall of said casing having a groove into which said lugs project, two of the corners of said wrappers being sheared off to permit of swinging movement of the said wrapper around the said lug.

1,376,119. RIFLE-GRENADE. CREEDY C. SHEPPARD, Bridgeport, Conn., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed July 11, 1917. Serial No. 179,793. 6 Claims. (Cl. 102—29.)

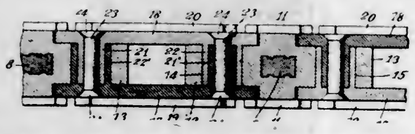


1. A rifle grenade comprising a body adapted to be supported directly on and projected from a rifle barrel and having an opening therethrough for permitting the passage of a bullet and receiving a rifle barrel, and means within said opening in advance of an inserted rifle barrel for receiving and holding the propelling gas after the passage of a bullet completely through the opening in the body.

1,376,120. CUTTING-CHAIN. FINIS SMITH, Georgetown, Ill. Filed July 9, 1919. Serial No. 309,665. 2 Claims. (Cl. 262—33.)

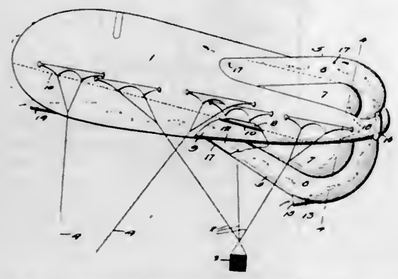
1. A chain for coal cutting machines comprising in combination, alternately arranged cutter links and connecting links, said connecting links being composed of two straps, each strap having tubular lugs of even diameter

throughout their length integrally formed on their opposite ends, the lugs at each end of the link telescoping on each other throughout their entire length so that the inner one form a bearing for the outer extending across the entire space between said straps to the plane of the inner face of the opposite strap, a rivet passing through suitable counter-sunk apertures in each end of said links and through said inner tubular lugs adapted to hold the several parts of said link against relative transverse move-



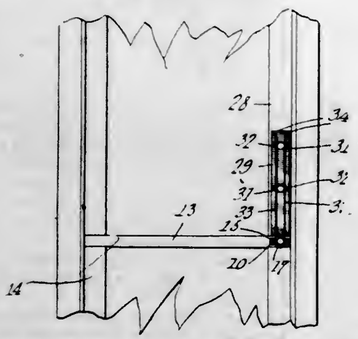
ment, said cutter links having lugs fitting snugly between the straps of said connecting links and around the outer lugs thereof, so as to prevent the transverse deflection of said cutter links, and outwardly extending guide flanges formed on each side of said links.

1,376,121. KITE, CAPTIVE, OR OBSERVATION BALLOON. CHARLES F. SMYTH, New Haven, Conn., assignor to Connecticut Aircraft Company, New Haven, Conn., a Corporation of Connecticut. Filed Oct. 4, 1919. Serial No. 328,419. 7 Claims. (Cl. 244—4.)



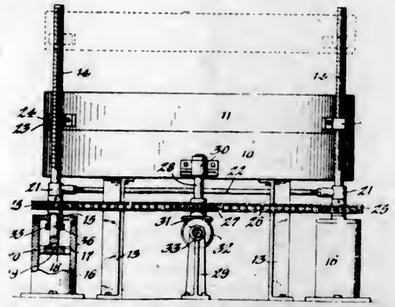
1. A kite, captive or observation balloon comprising a gas-bag having stabilizing means upon the tail portion thereof, said stabilizing means including a protuberance having separate and independent fluid containing compartments, one of said compartments being in communication with the atmosphere for inflation by wind pressure and the other of said compartments being in communication with the gas containing space of the gas-bag for inflation by gas therefrom.

1,376,122. WINDOW-FASTENER. ELMO SONGEY, Asheville, N. C. Filed May 19, 1920. Serial No. 382,585. 1 Claim. (Cl. 292—57.)



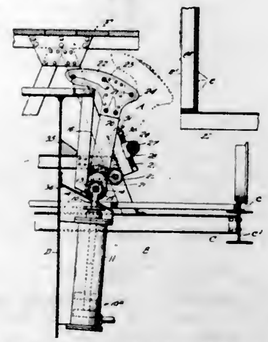
A window fastener comprising a keeper plate adapted to be secured to the inner face of the side rail of the upper sash of a window adjacent to the meeting or parting rail thereof and provided with a series of vertically spaced apertures therethrough, said side rail having sockets alined with said apertures, walls arranged at either side of said apertures and a spring bolt carried by the top rail of the lower sash adapted to be guided between said walls for engagement with said apertures and sockets, said bolt comprising a casing adapted to be mounted in the upper rail of the lower sash in alinement with said apertures, said bolt having a shank portion provided with a radially projecting lug and said casing having inner and outer walls, the outer wall being provided with a recess to receive said lug therethrough for contact against the front portion of the casing, whereby said bolt may be held retracted against the action of its spring, said bolt having an enlargement on its upper end forming a shoulder, a spring on the bolt between the front wall thereof and said shoulder for normally projecting the bolt to engage said apertures and sockets, said bolt having a knurled operating head, and means coöperating between the spring and bolt for adusting the tension of the spring.

1,376,123. TIRE-MOLDING APPARATUS. CHARLES W. STICKEL, Rochester, N. Y., assignor to Good Luck Tire & Rubber Co., Buffalo, N. Y., a Corporation of Arizona. Filed July 2, 1920. Serial No. 393,505. 3 Claims. (Cl. 18—17.)



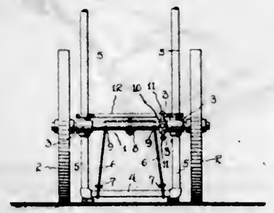
1. In an apparatus of the character described, the combination of a stationary lower mold section, an upper mold section movable relatively to said lower mold section, and means for raising and lowering said upper mold section relatively to said lower mold section comprising bearing supports, vertical screw rods journaled in said supports, screw nuts arranged on said upper mold section and engaging with said screws, sprocket wheels mounted on the latter, a sprocket chain connected to said sprocket wheels, and means for transmitting motion to said chain.

1,376,124. DEVICE FOR REMOVING THE CLOSURE-BOARDS OF GRAIN-CAR DOORS. HARRY R. WAIT, Buffalo, N. Y. Filed Jan. 9, 1920. Serial No. 350,482. 15 Claims. (Cl. 254—93.)



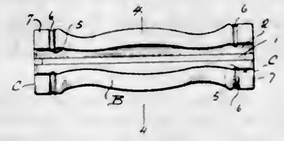
1. In a device for removing grain car door boards, the combination with a door board removing shoe, of means for swinging said shoe into car door engaging position and rocking said shoe to force said boards from said door.

1,376,125. DEVICE FOR POSITIONING APPARATUS AND THE LIKE. JESSE L. WENTZ, Passaic, N. J., assignor to Portable Machinery Company, Inc., Clifton, N. J., a Corporation of New Jersey. Filed Jan. 12, 1920. Serial No. 350,860. 4 Claims. (Cl. 254—166.)



1. In a device of the character described the combination of a rotatable axle, traction wheels thereon, adjustable supporting rods secured to the axle, a connecting medium between the axle and the supporting rods, and means for winding the connecting medium on the axle to position the supporting rods.

1,376,126. HAND-GRASP. ELSIE WILLETT, Alberton, Mont. Filed July 26, 1920. Serial No. 398,940. 3 Claims. (Cl. 224—57.)



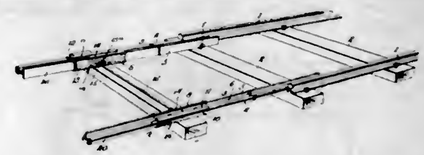
1. As a new article of manufacture, a hand grasp comprising an elongated tubular body having a longitudinally disposed slot in communication with the bore thereof, a plug snugly fitting within the slot, caps rotatably supported by the end portions of the body, each of said caps being provided with a cut-away portion adapted to register and substantially coincide with adjacent ends of the bore and slot of the body when the cap is in one position, and a plate carried by each end portion of the body and snugly fitting within the cut-away portions of the caps when said caps are in a second position to hold the caps against rotation.

1,376,127. SIGNALING DEVICE. HARRY M. WILLIAMS, Little Rock, Ark., assignor of one-half to John E. Coates, Little Rock, Ark. Filed June 19, 1919. Serial No. 305,291. 4 Claims. (Cl. 116—173.)



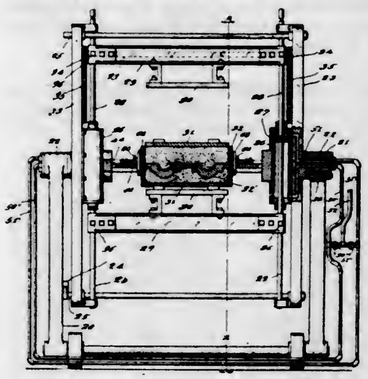
1. A signaling device comprising a plurality of tubular containers, one of said containers being provided with a longitudinally-disposed slot, interchangeable closures for the ends of said containers, flag staffs fixed to said closures, and signal flags on said staffs, substantially as described.

1,376,128. SLIDE-RAIL HOLDER. JAMES EDWARD WILSON, Eldorado, Ill. Filed May 21, 1920. Serial No. 383,168. 7 Claims. (Cl. 238—10.)



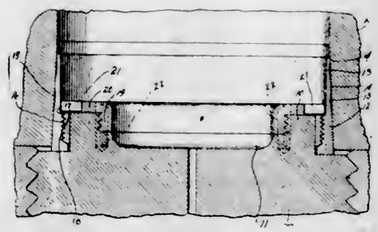
1. A device for holding the slide rails of mine tracks, with the slide rails lying on their sides, their base flanges assuming an inclined position and their heads engaging the webs of the permanent rails, comprising a sheet metal coupling or sleeve shaped to conform to the contour of the rails and having a part to clamp the head of the slide rails and another part to clamp the base flange of said slide rails.

1,376,129. MOLDING-MACHINE. ARTHUR F. ABIGT, Indianapolis, Ind. Filed Apr. 7, 1920. Serial No. 371,793. 7 Claims. (Cl. 22—32.)



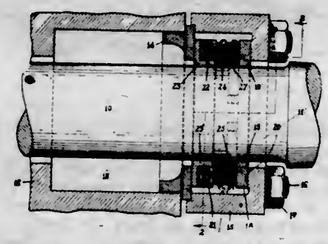
1. In a molding machine, an invertible frame provided with an open-frame match-plate holder, means by which flasks may be accurately associated either simultaneously or independently with the appropriate face of the match plate and with each other, two flask-supporting sand-compressing members carried by the swinging frame at opposite sides of the match plate holder, and means by which said members may be moved toward and from the plane of the match plate.

1,376,130. GAS-CHECK. DORSEY F. ASBURY, Washington, D. C., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed July 6, 1916. Serial No. 107,848. 11 Claims. (Cl. 89—26.)



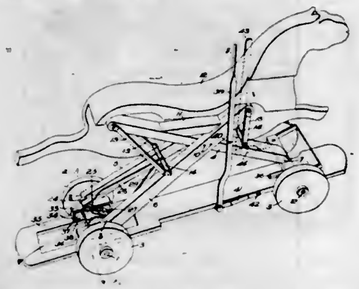
1. A gas check for breech loading guns coacting with a seat on the gun and having a sealing surface, the effective sealing area thereof, which coacts with the seat on the gun, progressively increasing as the chamber pressure of the gun increases.

1,376,131. METALLIC ROD-PACKING. JOHN BADEKER, Omaha, Nebr., assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr., a Corporation of Nebraska. Filed Oct. 22, 1917. Serial No. 197,983. 7 Claims. (Cl. 286—22.)



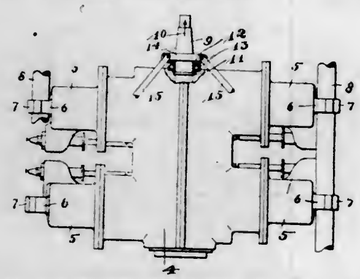
1. In a metallic rod-packing, a packing-ring comprising a series of circumferentially overlapped segments, there being clearance-spaces at the ends of the segments adjoining the bore and one face of the ring, deformable spacing-members extending across said clearance-spaces and stopping the same longitudinally of the rod, and means abutting said face of the ring and confining said spacing-members against displacement except toward the bore of the ring.

1,376,132. HOBBYHORSE. JOSEPH BALLIN, Dubuque, Iowa. Filed Feb. 5, 1920. Serial No. 356,386. 5 Claims. (Cl. 208—42.)



1. A vehicle having a seat, a frame therefor, rollers or wheels for the frame, connections between the seat and wheels whereby rocking of the seat will drive the vehicle, and means including a rack in engagement with the connections, and a lever pivoted to the seat and rack for reversing from the seat, the direction of travel, at will.

1,376,133. INTERNAL-COMBUSTION ENGINE. VERNON W. BALZER and JOHN MCK. BALLOU, Los Angeles, Calif., assignors to Western Aircraft Corporation, Inc., Los Angeles, Calif. Filed Aug. 11, 1920. Serial No. 402,836. 4 Claims. (Cl. 244—31.)



1. In an internal combustion engine, lugs provided on the heads of the cylinders, and cover plates of a form corresponding to the lugs forming with such lugs adjustable supporting means for slidingly supporting the engine.

1,376,134. NOZZLE. HUGH F. BEARDEN, Atlanta, Ga. Filed Jan. 14, 1921. Serial No. 437,282. 3 Claims. (Cl. 15—51.)



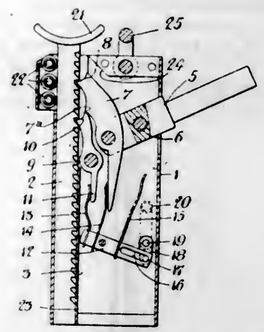
1. A cleaning device, having a flaring nozzle with a long, narrow discharge opening, a pad engaging one face of the nozzle, and extending beyond the discharge end thereof, a strap for securing the pad to the body of the nozzle, and hooks carried by the pad to engage the forward end of the nozzle.

1,376,135. HEAT-EXCHANGER. CARL F. BRAUN, San Francisco, Calif. Filed Mar. 13, 1919, Serial No. 282,258. Renewed Aug. 20, 1920. Serial No. 404,957. 6 Claims. (Cl. 257—236.)



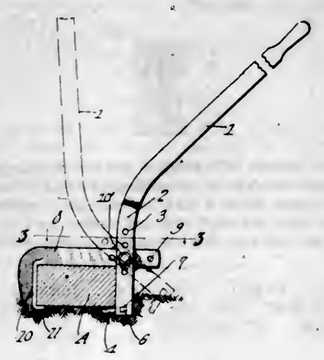
2. A heat exchanger comprising a cylindrical shell, fluid circulating connections therewith, a heating element slidably positioned within said shell and extending from one end thereof, a cover cap sealing one end of the shell and inclosing the extending end of the heating element and an end head member to which the opposite end of the heating element is secured and which in turn closes the opposite end of the shell.

1,376,136. LIFTING-JACK AND HAULER. CHARLES EDMUND CLEWS, Paeroa, New Zealand, assignor of three-sixths to Percy Nicol Kingswell, Auckland, New Zealand. Filed Dec. 30, 1919. Serial No. 348,375. 7 Claims. (Cl. 254—111.)



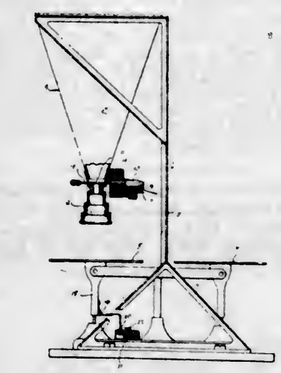
1. A device for the purpose specified, comprising a frame, a movable member passing through the same, an operating lever projecting from said frame, a pawl pivoted to said operating lever, provided with a projection and engaging said movable member, an inclined face carried by said casing and arranged above the pawl in a position to be engaged thereby, a second pawl located between the first pawl and said movable member and engaging the latter, a rocking arm arranged below said pawls, and springs projecting from said arm and adapted to press against either side of the lower portions of said pawls for holding said pawls in engagement with or ont of engagement with said movable member.

1,376,137. TAMPING-TOOL. IRA E. CLUM, Lima, Ohio. Filed Oct. 2, 1920. Serial No. 414,252. 1 Claim. (Cl. 104—13.)



The combination with a lever having a fork at one end and a tamping blade extending at an angle from the fork and laterally beyond the sides thereof, of an arm pivotally and adjustably connected to and extending through the fork, a jaw upon the arm, and means upon the jaw for engaging the tie to hold the jaw to the tie.

1,376,138. ELECTRICALLY-CONTROLLED WEIGHING-SCALE. LOUIS J. CURRAN and GEORGE F. DONNELLY, South Meriden, Conn. Filed Sept. 18, 1920. Serial No. 411,062. 2 Claims. (Cl. 249—55.)



1. The combination with a scale including a pan, a hopper supported above said pan, a slide adapted to open and close the throat of said hopper, said slide provided at its end with an armature, a solenoid magnet coacting with said armature, contact arms adapted to be forced together by said armature, an arm connected with said scale pan, contacts adapted to be brought together by said arm, and electric connections whereby, when the pan is depressed, the magnet will be energized and the armature withdrawn.

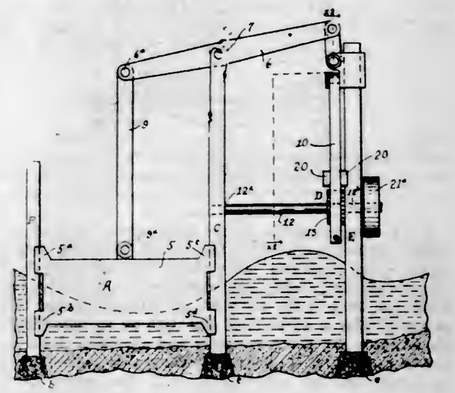
1,376,139. DRILL EXTENSION. RINALDO DEL PORTO, Vallejo, Calif. Filed Nov. 4, 1919. Serial No. 335,694. 9 Claims. (Cl. 287—58.)

1. A drill extension comprising a pair of telescopic members, one of which is threaded, means frictionally connected to the other for engaging with the threads of the first member, means for coupling the members together,



and means extending through the inner member for rendering the coupling means inoperative.

1,376,140. WAVE OR TIDE MOTOR. CHARLES L. ERVIN, Los Angeles, Calif. Filed Jan. 22, 1919. Serial No. 272,604. 3 Claims. (Cl. 253—10.)

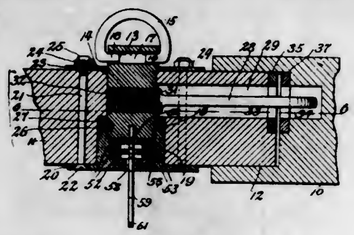


1. A motor of the character disclosed, comprising a float, means constraining said float to a vertical path of travel, a rack bar having downwardly directed ratchet teeth, a rack bar having upwardly directed ratchet teeth, means of pivotal connection between one end of each of said rack bars and said float confining the corresponding ends of said rack bars to a rectilinear vertical path of travel, a ratchet wheel disposed between said rack bars and directly actuated alternately thereby in one direction of rotation only, guide means adjacent to said ratchet wheel for confining said rack bars to the plane of said ratchet wheel, spring means uniting the ends of the rack bars opposite their pivotally connected ends and permitting alternate oscillation of said rack bars about their respective means of pivotal connection.

1,376,141. LOCK. JOSEPH EVANS, Buffalo, N. Y. Filed Nov. 10, 1919. Serial No. 336,900. 4 Claims. (Cl. 70—31.)

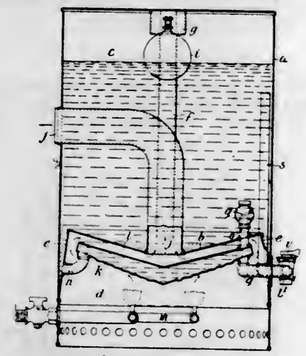
3. A lock comprising a rocking hook, a plate provided with a slot which receives said hook, and means for yieldingly holding said hook in a depressed position compris-

ing a follower engaging said hook, a guide rod connected with said follower, a guide tube which receives said rod, a



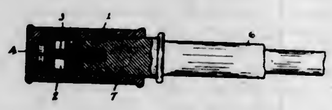
spring interposed between said tube and follower, and a U-shaped guide mounted on said plate and extending over said follower.

1,376,142. WATER-HEATER. JOHN WILLIAM EWART, Mill Hill, England. Filed Nov. 26, 1919. Serial No. 340,829. 2 Claims. (Cl. 122—18.)



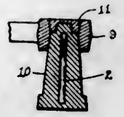
1. In a water heater of the kind herein referred to, a casing divided by an inverted conical partition into an upper water container and a lower heating chamber, the water container being extended downward peripherally below the level of the partition, an inverted conical boiler provided with a water inlet and with an up-take pipe extending into the water container and provided with a non-return valve and a two-way discharge or delivery valve in communication respectively with the water in the water container and with that in the boiler, substantially as herein described.

1,376,143. STORAGE-BATTERY TERMINAL. CLARENCE W. HAZELETT, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Nov. 3, 1916. Serial No. 129,260. 3 Claims. (Cl. 204—29.)



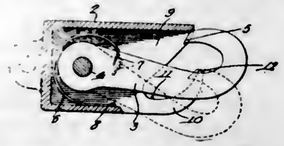
1. In storage batteries, a plate post, an adapter having a lug with an opening to fit over said post and having a socket portion integral with said lug and closed at one end, a screw having its head secured in the closed end of the socket and a cable terminal fitting in said socket, said terminal having a threaded opening adapted to coöperate with said screw to draw the terminal into the socket when the adapter is rotated relative to the terminal.

1,376,144. STORAGE-BATTERY TERMINAL POST. CLARENCE W. HAZELETT, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Sept. 21, 1917. Serial No. 192,439. 6 Claims. (Cl. 204—29.)



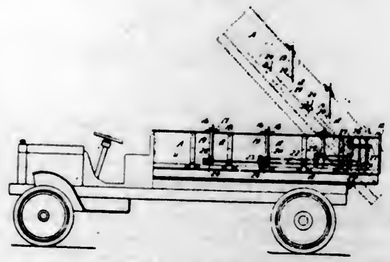
1. The process of making a reinforced storage battery post which consists in embedding one end of a good-conducting metal rod in a lead lug, placing a portion of said lug in a mold for said post and casing lead in the mold around the rod and the remaining portion of the lug.

1,376,145. SAFETY TUG-HOOK. JOHN H. HOWARD, Colfax, Wash. Filed Apr. 12, 1920. Serial No. 373,167. 3 Claims. (Cl. 24—233.)



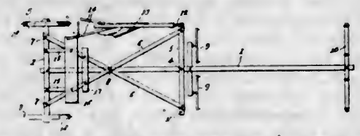
1. In a device of the class described, a housing having a shank adapted to be attached to a suitable portion of the harness, the housing having spaced wings shaped to inclose the shank of a tug hook, a tug hook pivotally mounted within the wings of the housing and having its looped portion projecting beyond the housing, the wings having arcuate upwardly and forwardly projecting tongues, the device having openings between said tongues and the wings to permit of the insertion of the portion of the harness to which the hook is to be attached, the loop of the hook projecting beyond the wings, and the hook having a rearwardly turned end of a suitable length to engage just within the ends of the wings and of the arcuate tongues, said wings and tongues being positioned relative to the end of the hook to form a closure to prevent accidental detachment of the harness from the hook, substantially as shown and for the purposes described.

1,376,146. DUMP-BODY PARTITION AND OPERATING MEANS THEREFOR. MOSES M. KAHN, San Francisco, and FRANKLYN J. SILVA, Oakland, Calif.; said Silva assignor to Moses M. Kahn. Filed May 26, 1920. Serial No. 384,303. 7 Claims. (Cl. 298—8.)



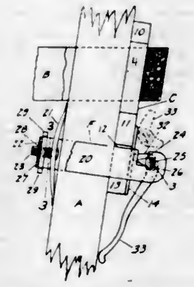
1. In combination, a dump body adapted to be brought to an inclined position, partitions transversely of said body, means for mounting said partitions including a trunnion on each end of said partitions and bearing means therefor, an arm rigidly secured to one trunnion of each partition, means for locking said arms against movement, said means being adapted for individually releasing any of said arms and permit swinging movement thereof.

1,376,147. PLOWING DEVICE. JOSEPH LACHANCE, Morgan Hill, Calif. Filed June 4, 1919. Serial No. 301,712. 2 Claims. (Cl. 97—36.)



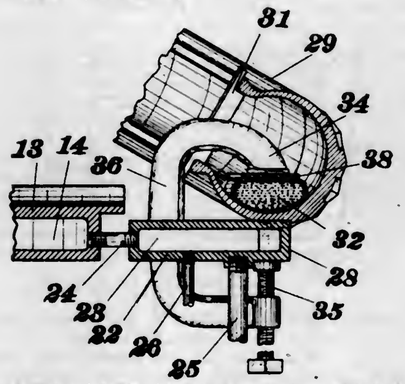
1. In a device of the class described, a frame comprising a longitudinal pole, an axle secured to the rear end of the pole, wheels on the ends of said axle, a cross bar secured to said pole intermediate the ends thereof, cross braces having their ends secured to said cross bar and said axle respectively adjacent the ends thereof, and means for attaching a plow to either end of said cross bar, substantially as described.

1,376,148. LUG-STRAP HOLDER. ALBERT A. LAFAYETTE, Lawrence, Mass. Filed Feb. 12, 1921. Serial No. 444,477. 4 Claims. (Cl. 139—48.)



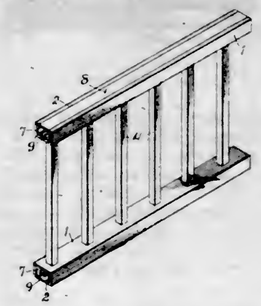
4. The combination in a lug strap holder of a support for the lug strap; with a U-shaped metal yoke having a connecting member, and parallel arms which embrace the picker stick and said support, each of said arms having near its free end an open mouthed angular slot; a bow spring between said arms, the connecting member and the picker stick which carries a fixed screw; a nut for said fixed screw which fits between said arms; a removable clamping nose with pivot ears which fit in said angular slot; and means to turn said nose on said ears as pivots.

1,376,149. VULCANIZER. FRANK O. MELIN, Omaha, Nebr., assignor of one-half to Louis H. Peterson, Omaha, Nebr. Filed May 17, 1920. Serial No. 382,049. 3 Claims. (Cl. 18—18.)



1. A tire vulcanizer having a corner iron with a chambered interior for receiving steam to heat the iron and with an angular projection at one end, constituting a continuation of the supporting surface of the iron for extending between and about projections on the surface of a tire casing.

1,376,150. JOINT-LOCK. ALBERT F. MILLER, Kansas City, Kans. Filed Jan. 14, 1920. Serial No. 351,421. 10 Claims. (Cl. 189—84.)



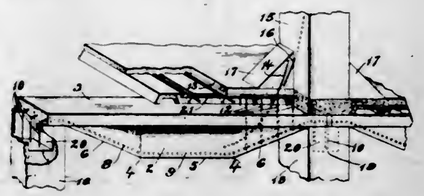
1. In a joint lock of the kind described, an outer tubular member having in one side a longitudinal slot, openings in the opposite side to receive a separate member, and slidable means within the tubular member for engaging and locking said separate member in position, substantially as set forth.

1,376,151. SAFETY CROCHET-NEEDLE. EVA R. MITCHELL, Worcester, Mass. Filed Apr. 4, 1919. Serial No. 287,507. 2 Claims. (Cl. 66—17.)



1. A crochet needle having a handle and a shank curved laterally of the axis of the handle, said shank being further curved in a plane at right angles to the first named curve.

1,376,152. FLOOR SYSTEM. STUART B. MOORE, Houston, Tex., assignor to Texas Concrete Construction Company, Houston, Tex., a Corporation of Texas. Filed July 2, 1920. Serial No. 393,625. 3 Claims. (Cl. 72—15.)



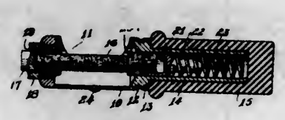
3. The combination with a column having an open upper end, tie wires projecting into said open end and bent laterally therefrom, of a beam of T formation supported by said column and having tapered and flaring extremities, and a poured flooring supported by said beam into which said tie wires project.

1,376,153. INSECTICIDE. WILLIAM MOORE, St. Paul, Minn. Filed Dec. 11, 1919. Serial No. 344,238. 8 Claims. (Cl. 167—6.)

1. An insecticide consisting of a metallic arsenical containing an adsorbed metallic ion.

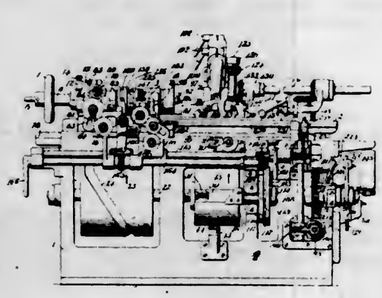
8. An insecticide consisting of a metallic arsenical, and a metallic salt forming, in the presence of water, an adsorbed metallic ion.

1,376,154. ELECTRICAL LIGHTING DEVICE FOR CIGARS AND THE LIKE. JOSHUA M. MORRIS, Rochester, N. Y. Filed Oct. 2, 1919. Serial No. 328,041. 11 Claims. (Cl. 219—32.)



10. A lighting device comprising a stationary socket forming a terminal, a terminal arranged in said socket, a spring in the socket, a removable hollow terminal adapted to fit in the socket, an incandescing body carried by said removable hollow terminal and adapted to be brought into electrical connection with the terminal in the stationary socket when the hollow terminal is moved to compress the spring, and interlocking connections between the stationary socket and the removable hollow terminal controlled by said spring.

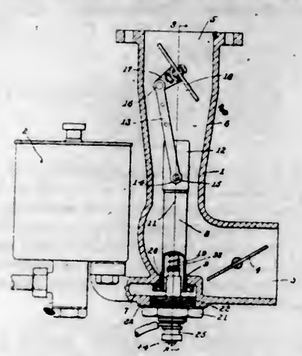
1,376,155. MACHINE FOR AND METHOD OF MILLING BLANKS FOR CUTTERS. FRIEDRICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1919, Serial No. 274,528. Renewed Jan. 31, 1920. Serial No. 355,409. 32 Claims. (Cl. 90—15.)



1. In a milling machine, the combination of a work table, means on the table for holding a blank to be grooved, a rotatable milling cutter adapted to engage the blank and provided with a series of cutting edges at an acute angle to the cutter axis, means for effecting relative movement between the cutter and the blank longitudinally of the latter to cut a groove, and means for effecting relative adjustment between the blank and the cutter toward or from each other along lines at the aforesaid acute angle to the axis of the cutter.

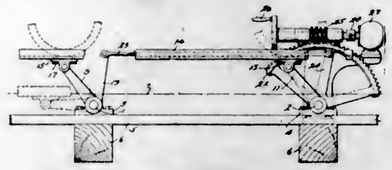
1,376,156. CARBURETER. CLIFFORD T. MURPHY, Los Angeles, Calif., assignor, by direct and mesne assignments, to Columbia Carburetor Company, a Corporation of Maine. Filed Jan. 31, 1917. Serial No. 145,798. 5 Claims. (Cl. 219—38.)

1. In a carbureter, an elongated fuel feeding nozzle adapted to be inserted in a carbureting mixing chamber, said nozzle having a closed upper end and provided with progressively controlled discharge means, an electrical heating unit disposed within the nozzle and terminating a substantial distance below the upper end thereof to provide a vaporized fuel receiving reservoir of a material capacity, said unit having heating coils to intensely heat the fuel passing therethrough to be vaporized prior to its delivery to the fuel reservoir, and movable means



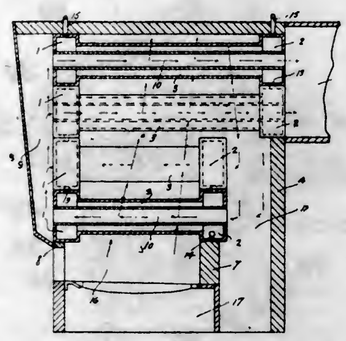
embracing the nozzle for progressively opening or closing the fuel feeding means therein.

1,376,157. VEHICLE-LIFT. LAWRENCE F. NADIG, Quakertown, Pa. Filed Feb. 25, 1920. Serial No. 361,099. 5 Claims. (Cl. 254—89.)



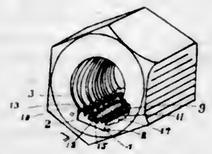
1. A vehicle lift comprising a plurality of runners arranged in spaced relation on a floor, means for simultaneously raising the runners above the floor surface, whereby access may be had to the under side of the vehicle, the said means including a plurality of spaced shafts, the said shafts extending laterally of the runners, and arms connecting the said shafts and the runners, one end of said arms having a rigid connection with the shafts, the other end of said arms having a pivotal connection with the respective runners, means for rotating one of the shafts, said means including a worm and gear connection, whereby the vehicle may be held in any intermediate position between the limits of movement independent of other braking means.

1,376,158. BOILER. ROBERT JOSEPH NOTT, Victoria, British Columbia, Canada. Filed June 7, 1919. Serial No. 302,498. 1 Claim. (Cl. 122—266.)



In a boiler, a setting forming an inclosure having a furnace, an outlet in its rear wall, and a smoke box casing on its front wall; a plurality of superposed connected front water chambers disposed adjacent said casing and inclosed thereby, a plurality of tubes extending rearwardly from the uppermost chambers in parallel rows and provided on their rear ends with water chambers similar to the front ones, the latter chambers extending into said outlet and the lowermost one being supported on the said rear wall, a plurality of shorter tubes extending rearwardly from the lowermost front water chambers provided on their rear ends with similar chambers spaced from the rear wall of the setting, the lowermost one of which rests on the furnace bridge, and smaller tubes extending through the aforesaid tubes and chambers the interiors of the lower ones of which communicate with the inclosure and the smoke box and of the upper ones with the smoke box and the said outlet.

1,376,159. NUT-LOCK. WILLIAM HENRY PALMER, Montreal, Quebec, Canada. Filed June 10, 1920. Serial No. 388,064. 1 Claim. (Cl. 151—25.)



A nut lock comprising a locking unit formed of a plate having inwardly curled ends and one curled end slotted for a keyway and annularly grooved rollers having end stems under curled ends, springs behind said rollers at the sides and a spring between said rollers normally closing the keyway and retaining said rollers under said curled ends, and a key for alining the rollers, said locking unit being insertible in a corresponding slot through the threads of the nut and held therein.

1,376,160. PROCESS OF MAKING STEEL. EDWARD T. PELTON, Chicago, Ill. Filed July 6, 1920. Serial No. 394,228. 4 Claims. (Cl. 75—27.)

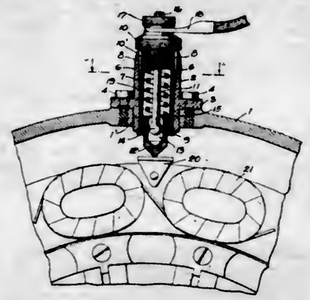
1. The process of producing steel which consists in charging an acid lined furnace with iron materials low in phosphorus and sulfur, bringing the charge to a molten condition, removing the slag from the surface of the molten charge, adding metallic ore to the charge, causing ebullition in the charge, and withdrawing the charge from the furnace.

1,376,161. PROCESS OF MAKING BASIC ZIRCONIUM SULFATE. EDWARD J. PUGH, Trenton, Mich., assignor to Pennsylvania Salt Manufacturing Company, Wyandotte, Mich., a Corporation of Pennsylvania. Filed Jan. 30, 1919. Serial No. 274,123. 4 Claims. (Cl. 23—13.)

3. The process of manufacturing a basic sulfate of zirconium from zirconium bearing ore, comprising the steps of passing chlorin gas over the heated ore and thereby subliming the zirconium content from the ore, adding water to the sublimate and thereby bringing the zirconium content into solution, and adding sulfuric acid to the solution and thereby precipitating the zirconium content as a basic zirconium sulfate; substantially as described.

1,376,162. MAGNETO-CONTACT. VIRGIL RIGSBY, Hemphill, Tex. Filed Mar. 9, 1920. Serial No. 364,573. 4 Claims. (Cl. 173—324.)

3. A device of the character stated, comprising a tubular casing having key-ways therein, a tubular barrel within the casing, external keys on the barrel fitting the key-ways in the casing, an external annular flange on the lower end of the barrel engaging the end of the casing,



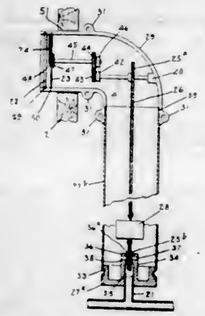
a plug in the outer end of the barrel, a guide pin on the plug within the barrel and a movable contact carried by a pin.

1,376,163. DENTAL IMPRESSION-TRAY. LESLIE V. ROBINSON, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,714. 6 Claims. (Cl. 32—6.)



1. A dental impression tray having two members joined by a connecting pivot, and having complementally curved adjacent edges provided with inwardly projecting flanges curved longitudinally upon the base of the tray.

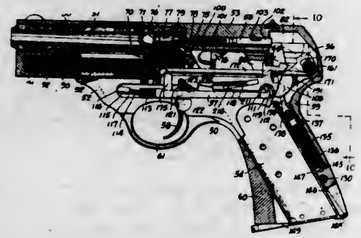
1,376,164. FLUID-GAGE FOR AUTOMOBILES. EUGENE H. ROLLIN, Indianapolis, Ind. Filed Dec. 15, 1919. Serial No. 344,799. 4 Claims. (Cl. 73—54.)



3. In a fluid gage the combination with a fluid containing casing, a sprocket wheel rotatably supported in the base thereof, a float movable in said casing and actuated by the fluid and a sprocket chain associated with said sprocket wheel and actuated by said float, of a second sprocket wheel rotatable by said chain, a sectionalized elbow adapted to project through the instrument board of an automobile and be visible therethrough, the end of said elbow being rigidly secured to the upper end of said tubular casing, a dial positioned in the open end of said sectionalized elbow, a shaft extending through said dial, an indicating finger carried on said extended end of the shaft and coöperating with said dial to indicate the fluid level in said tubular casing, a sprocket shaft rigid with said second mentioned sprocket wheel and rotatable thereby, meshing gears carried by said shafts for actuating said indicating finger, said second mentioned sprocket

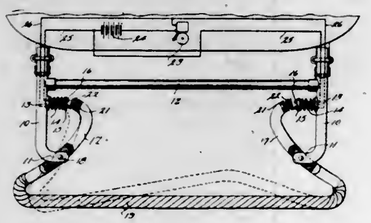
wheel, sprocket shaft, meshing gears and indicating shaft being supported in assembled relation to one of said sections of said sectionalized elbow, the other section of said elbow being positioned on said first mentioned section so as to inclose and house the gears and shafts, and means for securing said sections of said elbow together and secure the same to said tubular casing.

1,376,165. FIREARM. WALDO E. ROSEBUSH, Spokane, Wash. Original application filed Jan. 26, 1920, Serial No. 353,983. Divided and this application filed June 25, 1920. Serial No. 391,582. 6 Claims. (Cl. 42—3.)



1. In an automatic hand firearm, a hammer, a sear adapted to coact with the said hammer, a trigger adapted to actuate the said sear, and a safety device under the control of the operator and adapted to lock the said hammer in cocked position and to move the sear into inoperative position relative to the trigger.

1,376,166. OBSTRUCTION-ALARM. MORRIS ROSENBERG, Brooklyn, N. Y. Filed Jan. 20, 1920. Serial No. 352,795. 1 Claim. (Cl. 200—52.)



The herein described circuit closer comprising a pair of spaced supports, a brace extending between said supports and serving to hold them rigid with respect to each other, a pair of spaced contacts carried by each support, a switch arm pivoted in the free end of each support, a bridge carried by one end of each arm, and a flexible striking member connecting the ends of the arms remote from the bridge members.

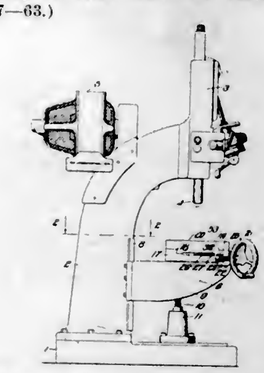
1,376,167. NOVELTY. HUGO SCHREPFER, West Hoboken, N. J. Filed Nov. 19, 1919. Serial No. 339,091. 1 Claim. (Cl. 46—37.)

A device of the class described comprising a frame having an opening therein, a strip of paper having two pictures drawn thereon, one of said pictures showing the figure of a person in one position and the other showing said figure in another position, said pictures being longitudinally spaced apart and the ends of said strip being secured to the rear of said frame, a handle, an enlarged member rigid with the upper end of said handle, the central portion of said strip being attached about said enlarged member, a slotted member lying between said enlarged member and said frame, said strip passing through said slot in both directions, a member bridging said slot so as to conceal the line separating the two folds of the strip



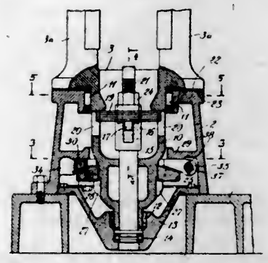
passing through said slot, said handle being movable alternately up and down.

1,376,168. DRILL-TABLE MECHANISM. WILLARD T. Sears, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 28, 1919. Serial No. 313,906. 13 Claims. (Cl. 77—63.)



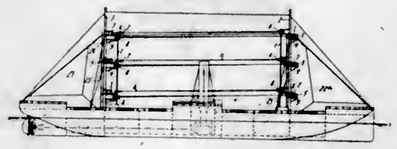
1. In a drilling machine, a work-support, a saddle mounted thereon and horizontally adjustable therealong, a table mounted on the saddle and horizontally adjustable therealong, and means operated by a single shaft on one of the members for optionally and independently effecting either the adjustment of the table on the saddle or the saddle on the support.

1,376,169. SUPPORTING AND CLAMPING MECHANISM FOR DRILLING-MACHINES. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 22, 1918, Serial No. 229,999. Renewed Nov. 9, 1920. Serial No. 422,960. 13 Claims. (Cl. 77—27.)



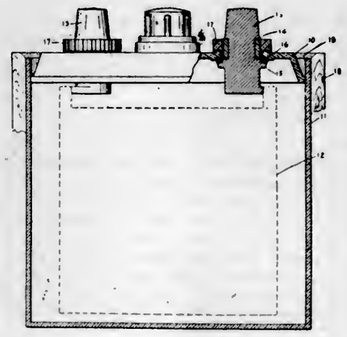
1. In a drilling machine having a base, a column rotatably supported on the base and drilling mechanism carried by the column, the combination of a column-support at the axis of the column, and vertically acting clamping means adapted to effect a direct engagement between the column and the base supplemental to the said support, the column being chiefly carried directly by the base when the said clamping means is engaged and being carried entirely on the support when the said clamping means is disengaged.

1,376,170. MECHANICAL CONTROL OF SAILS. MONTAGUE HERBERT CHURCHILL SHANN, Wodonga, Victoria, Australia. Filed Aug. 24, 1920. Serial No. 405,707. 7 Claims. (Cl. 114—104.)



1. Apparatus for controlling the position of sails comprising in combination with a mast and spaced yards and a sail of a ship, a double drum, means coacting with the drum and associated with the sails to shift the same laterally, and means for operating the said drum.

1,376,171. STORAGE BATTERY. MALCOM O. SMITH, Indianapolis, Ind., assignor to Permalife Storage Battery Co., Poughkeepsie, N. Y., a Corporation of New York. Filed June 9, 1919. Serial No. 302,866. 2 Claims. (Cl. 204—20.)



1. A storage battery having a non-corrosive jar with a plurality of plates therein, a non-corrosive cap mounted on said jar for inclosing said plates, a plurality of terminals adapted to engage said plates, a non-corrosive screw threaded sleeve formed upon and secured in each of said terminals and a non-corrosive thumb nut adapted to screw on said sleeve for removably securing said cap on said terminals.

1,376,172. VULCANIZED-OIL PRODUCT. WALTER O. SNELLING, Allentown, Pa. Original application filed May 22, 1915, Serial No. 29,765. Divided and this application filed Aug. 8, 1919. Serial No. 316,023. 3 Claims. (Cl. 106—23.)

3. The process that comprises depolymerizing a vulcanized oil product in the presence of gaseous hydrochloric acid.

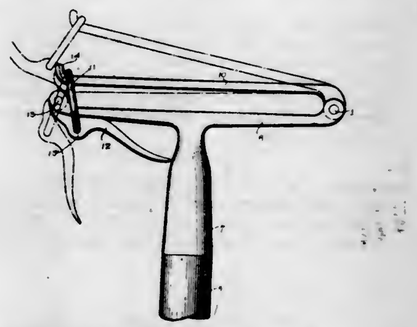
1,376,173. VULCANIZED-OIL PRODUCT. WALTER O. SNELLING, Allentown, Pa. Original application filed May 22, 1915, Serial No. 29,765. Divided and this application filed Aug. 8, 1919. Serial No. 316,024. 3 Claims. (Cl. 106—23.)

3. The process that comprises imparting different degrees of plasticity to a plurality of portions of vulcanized oil and mixing the resulting products.

1,376,174. VULCANIZED-OIL PRODUCT. WALTER O. SNELLING, Allentown, Pa. Original application filed May 22, 1915, Serial No. 29,765. Divided and this application filed Aug. 21, 1919. Serial No. 318,967. 1 Claim. (Cl. 106—23.)

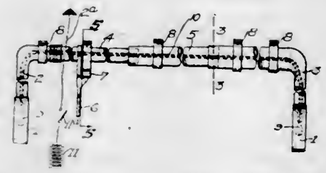
A liquid vulcanized oil product capable of being transformed into a solid factis-like material on contact with water.

1,376,175. MOP-HEAD. GEORGE HERMAN SUNDERMANN, Jr., New York, N. Y. Filed Dec. 29, 1920. Serial No. 433,884. 1 Claim. (Cl. 15—54.)



A mop head, including a cross arm, a second cross arm pivotally secured to said first named cross arm, a lever pivotally secured to the opposite end of said first named arm, and a link rockingly attached to said lever, said link being adapted to engage the free end of said second cross arm.

1,376,176. VEHICLE DIRECTION-INDICATOR. GUY TORRICELLAS, San Diego, Calif. Filed Aug. 19, 1920. Serial No. 404,577. 5 Claims. (Cl. 116—47.)

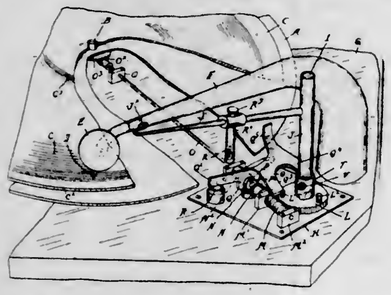


1. A signaling apparatus for vehicles, including a plurality of sections connected together in approximate alinement, the end ones being provided with right angle turns, a signaling device secured on the extended end of said right angle turn, and means for securing them to the bows of the top of the vehicle.

1,376,177. DISK-RECORD-REPLAYING DEVICE. ERNEST S. THOMPSON, Detroit, Mich. Filed Feb. 26, 1917, Serial No. 150,937. Renewed Apr. 24, 1918. Serial No. 230,609. 6 Claims. (Cl. 274—15.)

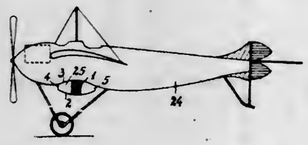
1. In a playing device for spirally grooved disk records, the combination with a rotatable record-carrying member,

of a needle-carrying member adapted to be advanced across the record when its needle is engaged with the groove of a record and said record-carrying member rotated, a lifting member for said needle-carrying member, a drive connection between said record-carrying member and lifting member, a reversible clutch mechanism for



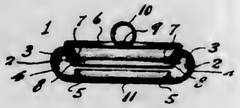
throwing said drive connection into operation in either direction, means controlled by movement of the needle-carrying member for throwing the clutch into operation so as to operate the drive connection in one direction, and means controlled by movement of the drive connection for throwing the clutch to operate the drive connection in the opposite direction.

1,376,178. RADIATOR. LUDWIG WAGENSEIL, Aachen, Germany, assignor to Hugo Junkers, Aachen, Germany. Filed Jan. 24, 1916, Serial No. 73,987. Renewed May 20, 1918. Serial No. 235,697. 13 Claims. (Cl. 244—31.)



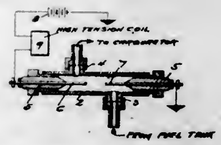
1. The combination of a self-propelled vehicle, a casing of tubular form mounted upon the vehicle extending fore and aft thereof and having its ends open and of smaller size than the portion of the casing intermediate the ends, the walls of the casing being substantially continuous from one end of the casing to the other, and a radiator within the casing in the intermediate portion thereof where the casing is of larger size than at its ends, said radiator being disposed substantially transverse to the direction of the length of the casing.

1,376,179. POWDER-PUFF. RUSSELL WHITCOMB, Elizabeth, and GEORGE H. HARMAN, Glen Ridge, N. J. Filed June 28, 1920. Serial No. 392,296. 2 Claims. (Cl. 15—72.)



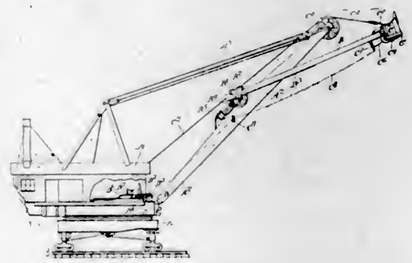
1. In a device of the kind described, an annular supporting form having an inwardly projecting gripping bead at its upper edge, a backing member provided at its periphery with an integral depending skirt having an annular receiving socket formed therein, a facing member, said facing member extending across the lower side of said supporting form with its marginal portions folded upwardly around said supporting form and inwardly over said gripping bead, and said backing member having the receiving socket of said skirt sprung over said gripping bead to clamp said marginal portions of the facing member between said gripping bead and said skirt.

1,376,180. PROCESS OF TREATING LIQUID FUEL. ELMER E. WICKERSHAM, Stockton, Calif. Filed June 29, 1920. Serial No. 392,063. 20 Claims. (Cl. 204—24.)



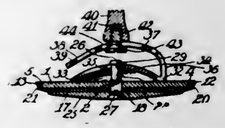
1. The process of lowering the end boiling point of liquid fuel, which comprises passing a plurality of electric sparks through the fuel.

1,376,181. DIPPER-TRIPPING MECHANISM. EDWIN J. WILKIE, PAUL S. STEVENS, and WERNER LEHMAN, South Milwaukee, Wis., assignors to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 31, 1919. Serial No. 286,604. 1 Claim. (Cl. 214—146.)



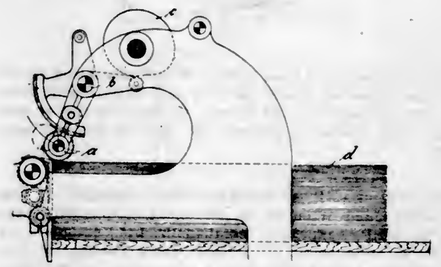
A dipper latch tripper device comprising a rotary impulse wheel connected to a winding drum, a cable wound about said drum, tension means acting through said drum to keep the cable taut, but not tight enough to trip the dipper latch, said tension means comprising a torque spring concentric with said rotary impulse wheel, a fluid pressure means acting against said rotary impulse wheel at the will of the operator whereby tension of the cable may be increased sufficiently to trip the dipper latch.

1,376,182. SAFETY-RAZOR. OSCAR C. WILLIAMS, Indianapolis, Ind. Filed Mar. 3, 1920. Serial No. 362,930. 3 Claims. (Cl. 30—12.)



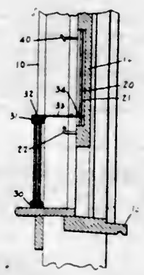
1. A safety razor comprising a rectangular guard plate having four fingered guards and also a central aperture and a socket, a rectangular blade having four cutting edges and also a central aperture and a socket, a clamp plate that is rectangular in plan and having a stud central thereon and extending through the apertures in the blade and the guard plate, the clamp plate having also a dowel thereon that extends through the sockets in the blade and the guard plate, said stud having a head thereon, a frame comprising a curved base plate having a concave side arranged on the guard plate and a curved arm extending from the edge of the base plate and over the outer or convex side of the base plate, said base plate having a slot receiving said stud, the convex side of said base plate engaging the head of said stud, and a handle adjustably connected to the curved arm.

1,376,183. SHEET-FEEDING. CARL WINKLER, Berne, Switzerland. Filed Jan. 20, 1921. Serial No. 438,803. 3 Claims. (Cl. 271—27.)



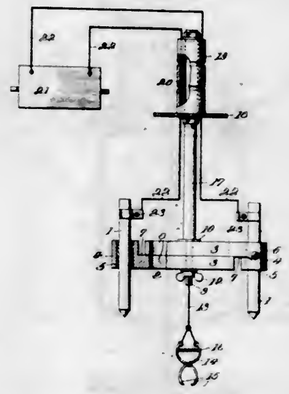
2. In a device for lifting separate sheets from a pile of the kind set forth in claim 1, the use of double valves for controlling the suction and blowing nozzles respectively, one of which valves (*l* or *u*), by which communication is effected between the pressure pipe and one of the groups of blowers (*e*) or between the suction pipe and the suction nozzles (*a*), being fastened on the valve spindle (*o* or *w*), while the other valve (*m* or *v*), by which communication is effected between the pressure pipe and the other group of blowers or between the atmosphere and suction nozzles (*a*), is adapted to slide on, and is actuated by a sleeve surrounding said spindle.

1,376,184. WINDOW-VENTILATOR. CHARLES S. WOODS, Indianapolis, Ind. Filed Mar. 22, 1920. Serial No. 367,666. 8 Claims. (Cl. 98—31.)



8. The combination with a window casing having a sill, and a window sash, of vertical guide members secured to the sash at each side thereof, an air deflector plate adapted to rest on the window sill, a flexible connecting member secured to the upper edge of the deflector plate near each end, and slidable on said guide member, and means for supporting said deflector by and against the window sash when not in use.

1,376,185. ELECTRODE-HOLDER. WILLIAM RICHARD BEAZLEY, Jacksonville, Fla. Filed July 21, 1920. Serial No. 397,918. 3 Claims. (Cl. 219—8.)



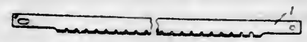
1. An electrode holder comprising a pair of plates formed with registering slots, an electrode carried by each of said plates, a bolt passed through said slots, and a nut on said bolt.

1,376,186. WHEEL-ANCHORING DEVICE. WILLIAM W. BLAKELY and FRANK W. KNOTT, Detroit, Mich.; said Knott assignor to said Blakely. Filed Nov. 24, 1919. Serial No. 340,327. 9 Claims. (Cl. 188—32.)



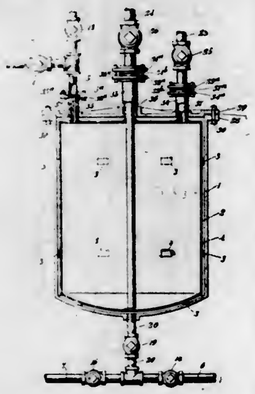
1. A wheel anchoring device comprising a clamping collar proportioned to engage a spoke of a vehicle wheel, means for adjusting said collar, and a tie member loosely carrying said clamping collar at one end and provided at the other with securing means.

1,376,187. ATTACHMENT FOR PLATEN PRINTING-PRESSES. CHARLES R. BROWN, Minneapolis, Minn., assignor of one-half to Willard Stowell, St. Paul, Minn. Filed June 5, 1919. Serial No. 301,940. 1 Claim. (Cl. 164—98.)



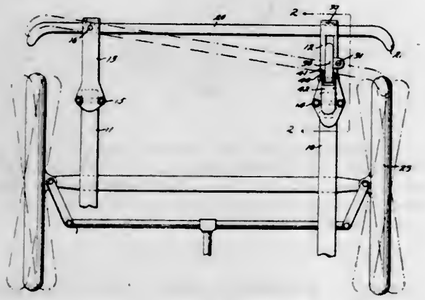
A combination of two metal clamps with a metal ejector bar attached at each end to the lower side of said clamps at the inner ends thereof, together with a metal perforating, cutting or scoring blade attached at each end to the upper side of said clamps also at the inner ends thereof, and all in combination with a suitable metal base, all substantially as described.

1,376,188. BLOW-CASE. MAURICE B. COOKE, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 27, 1919. Serial No. 326,833. 10 Claims. (Cl. 103—8.)



1. In an apparatus of the character indicated, in combination, a blow case element for handling fluid and comprising an inner and an outer receptacle spaced from each other to furnish an intermediate space, a container element for the fluid, fluid conveying connections between the inner receptacle of the blow case element and the container element, means for creating a desired absolute pressure in the inner receptacle thereby to move the fluid from one said element to the other, and means whereby the same absolute pressure is created in said space and applied to the exterior of said inner receptacle, as is created in, and applied to, the interior, whereby the pressure upon said inner receptacle is equalized.

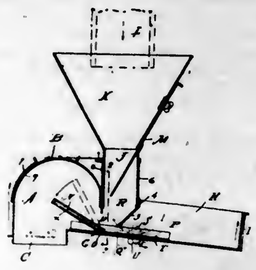
1,376,189. COMBINED BUMPER AND LOCKING DEVICE. WALTER HUDSON CRISWELL, Merlin, Oreg. Filed Feb. 2, 1920. Serial No. 355,619. 9 Claims. (Cl. 293—55.)



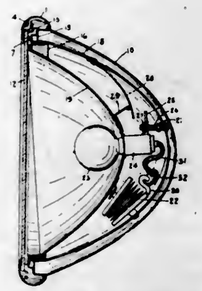
1. In a power driven vehicle, a movable bumper, and means to lock the bumper in forward bumping position or in rearward locking position relative to at least one of the steering wheels of the vehicle to render the steering wheel inoperative.

1,376,190. MATERIAL-SEPARATOR. MERRELL A. DEAN, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 31, 1920. Serial No. 370,163. 6 Claims. (Cl. 130—17.)

1. A separator comprising a box having an open bottom outlet and a side inlet, walls forming a feed spout discharging at said inlet and forming also a separating chamber opposite said inlet having a bottom inclined away from said box, an inclined wall extending from the lower side of said inlet inward and upward in said box, a pan slidably mounted like a false bottom in said separating chamber and connected to and carrying said inclined wall more or less into said box and thereby varying the size of said inlet, and means to produce air suction through said box.

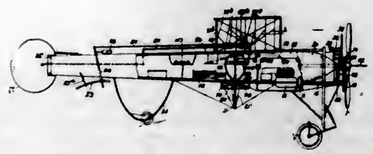


1,376,191. LAMP CONSTRUCTION. CHARLES L. DE MARTIN and WILLIAM M. MATTEOLI, Connersville, and SAMUEL F. ARBUCKLE, Indianapolis, Ind., assignors, by mesne assignments, to United States Automotive Corporation, Connersville, Ind., a Corporation of Delaware. Filed June 2, 1919. Serial No. 301,360. 3 Claims. (Cl. 240—41.)



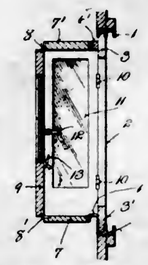
1. A lamp construction including a casing, a door mounted on said casing, an annular rim removably secured on said casing, a tilting reflector pivotally mounted on said rim, a frame member spaced from said reflector and secured to said rim, said frame member extending between said reflector and casing, and means supported between said frame member and reflector for actuating said reflector, whereby said reflector, actuating means and supporting rim and frame may be removable from said casing as a unit.

1,376,192. RADIO AERIAL TORPEDO. GARNETT JOEL DYE, Dothan, Ala. Filed Nov. 8, 1918. Serial No. 261,611. 6 Claims. (Cl. 244—1.)



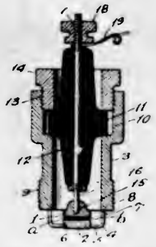
1. In a self propelled torpedo, the combination of a body adapted to carry a high explosive, a motor within the body, a propeller shaft driven by the motor and projecting forward from the body, the projecting end of the propeller shaft having a central bore and a transverse keyway at the rear end of the bore, an impact member fitted slidably in the bore and projecting forward from the shaft, a contact member surrounding the portion of the shaft having the keyway and having rigid connection with the rear end of the impact member, and firing devices for the explosive including a trigger and a plunger between said contact member and the trigger whereby the trigger is released when the impact member strikes an obstacle.

1,376,193. COLLAPSIBLE WINDOW. WILLIAM P. EGGERS, Fond du Lac, Wis. Filed Oct. 28, 1920. Serial No. 420,134. 2 Claims. (Cl. 20—40.)



1. A collapsible cab window comprising a skeleton frame, roof and sill panels hingedly secured to the upper and lower strips of the skeleton frame, a side window sash hingedly connected to the outer edges of the roof and sill panels, and front and rear windows in hinged connection with the end strips of the skeleton frame, the upper edges of the front and rear windows serving as supports for the roof panel when the hingedly connected parts are distended.

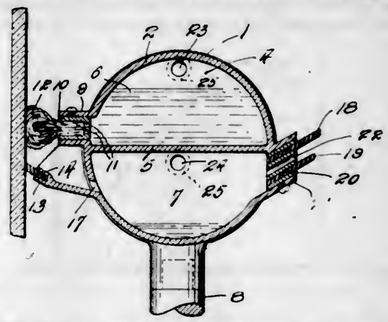
1,376,194. MEANS FOR AND METHOD OF IGNITING FUEL. ROY FRANCIS ENSIGN, Pasadena, Calif. Filed Jan. 21, 1918. Serial No. 213,060. 7 Claims. (Cl. 123—169.)



1. A spark plug provided with electrodes having juxtaposed surfaces and being spaced apart to form a gap that is unobstructed throughout the space within the perimeters of said surfaces and being of diameters sufficiently exceeding the width of the gap between said surfaces to allow capillary attraction acting upon liquid fuel between the electrodes to withdraw from the electrode edges a sufficient portion of such fuel to expose the edges of the electrode to allow the passage of the spark between the electrodes though they are drenched with such fuel.

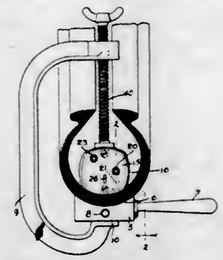
1,376,195. WINDOW-CLEANING DEVICE. ALPHONSE FERNANDEZ, Washington, D. C. Filed Feb. 14, 1921. Serial No. 444,886. 2 Claims. (Cl. 15—53.)

1. In a window cleaning device, a casing having upper and lower compartments, the upper compartment providing a reservoir for cleaning liquid, a moistening and cleaning element mounted upon and communicating with said reservoir, a trough with an inclined bottom extending from the lower compartment below said element, an opening



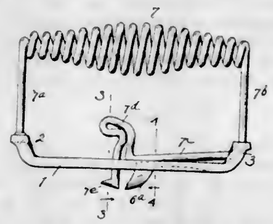
into said lower compartment being provided above said bottom, and a resilient strip carried by the front edge of said bottom.

1,376,196. VULCANIZING-MOLD. OSCAR M. FREDD, Hancock, Mich. Filed Dec. 28, 1920. Serial No. 433,644. 4 Claims. (Cl. 18—18.)



1. In combination with a vulcanizing mold, a reversible heating element adapted to be placed in opposition to the mold and to clamp the material operated upon between the heating element and the mold.

1,376,197. SADIRON-HOLDER. SAMUEL H. GIBSON, Cleveland, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 7, 1919. Serial No. 302,555. 4 Claims. (Cl. 68—27.)

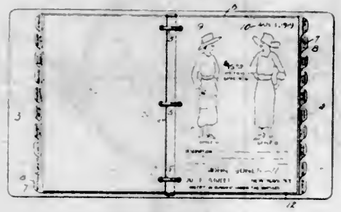


1. A sad iron holder comprising a base member, upright members mounted adjacent the ends of the base, a connecting handle member between the upright members, a latch having a knob and a foot, which are formed from a continuous piece of resilient material, which material is an extension of one of the end upright members.

1,376,198. BUYER'S GUIDE. HERMAN A. GOLDSTONE, New York, N. Y. Filed Oct. 18, 1919. Serial No. 331,549. 1 Claim. (Cl. 283—1.)

A buyer's guide comprising a loose-leaf binder, loose-leaf index pages releasably secured in said binder and provided with exposed tabs at the edges thereof bearing

indicia of different classes of merchandise and loose-leaf page advertisements of different manufacturers all of substantially uniform size and insertible in the binder between the index pages aforesaid, said page advertisements bearing description data of the goods made by the manu-



facturers supplying the same, indicia on said advertisement pages corresponding with the indicia on the tabs of the index pages with which the advertisement pages are to be associated in the binder and indicia on each of the advertisement pages giving notice of the date on which the informative data on that particular page is effective.

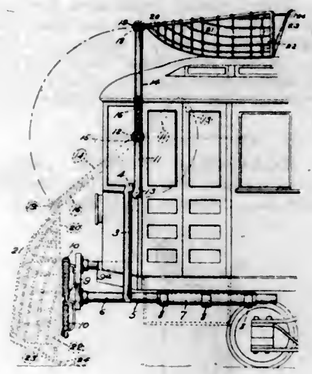
1,376,199. COMBINED GAME AND EDUCATIONAL DEVICE. FRANK GOTSCHE, San Francisco, Calif. Filed July 8, 1920. Serial No. 394,736. 2 Claims. (Cl. 46—57.)



1. In a device of the character described, a stationary member, a revolving member, positioned within said stationary member, game pieces adapted to be moved by said revolving member and characters on said revolving and said stationary members, for the purpose of indicating plays.

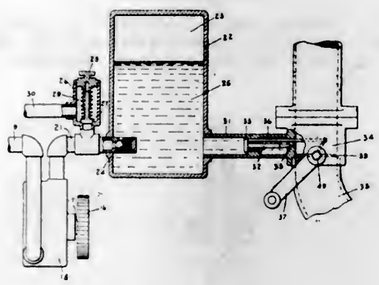
1,376,200. AUTOMATIC LIFE AND LIMB SAVING DEVICE FOR STREET-CARS, AUTOMOBILES, AND OTHER VEHICLES. WILLIAM S. GREGORY, Cincinnati, Ohio, assignor of one-third to Daniel D. Burkhardt, Cincinnati, Ohio. Filed Oct. 28, 1920. Serial No. 420,260. 3 Claims. (Cl. 293—15.)

1. An automatic life and limb saving device or apparatus for use on vehicles comprising a downwardly-forked frame-work pivotally-mounted at the fore-end of the vehicle, a rear-extension at the lower ends of said frame-work, guide-ways at the bottom of the vehicle for said rear-extensions, fore-extensions at the said lower ends of the said frame-work, a padded transverse buffer cross-head mounted on the outer ends of the said fore-extensions and arranged in advance of the lower fore-end, sill or dash of the vehicle, a rearwardly-open convex cage or catch-all of screen wire or the like pivotally-mounted at the upper ends of vertical extensions on the said downwardly-forked frame-work, and a suitable pad or cushion in the bottom of the said cage to ease or break the force of contact of



the object or victim caught in the said cage in the unstopped or uncontrolled forward movement of the said vehicle, substantially as herein set forth.

1,376,201. FUEL-FEED FOR INTERNAL-COMBUSTION ENGINES. EARL RODNEY HARRIS, Greencastle, Ind. Filed Apr. 19, 1919. Serial No. 291,343. 4 Claims. (Cl. 158—36.)

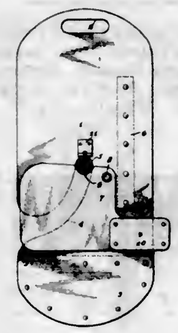


1. A device for supplying fuel to an internal combustion engine, including a mixing chamber, means for supplying fuel to said mixing chamber under constant pressure, an air intake in communication with said mixing chamber, valves for controlling the admission of air and fuel to said chamber, a single means for operating said valves simultaneously for obtaining the proper mixture of fuel and air therein, and means for adjusting the relative position of said operating means for regulating the ratio of fuel to air admitted through said valves.

1,376,202. RAT-GUARD. GILBERT JOSEPH HART, New Haven, Conn. Filed Nov. 11, 1920. Serial No. 423,450. 2 Claims. (Cl. 114—221.)

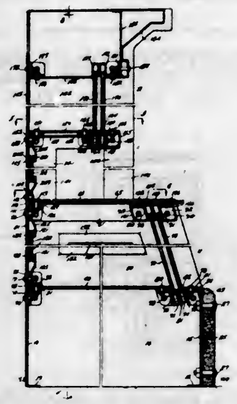
1. A device of the character stated, comprising a plate, a weight secured to one face of the plate adjacent its lower edge, a keeper pivoted to the other face of the

plate, said plate having a rope receiving recess therein, and a weighted arm on the keeper maintaining the keeper



in position to coact with the walls of said recess in encircling the rope.

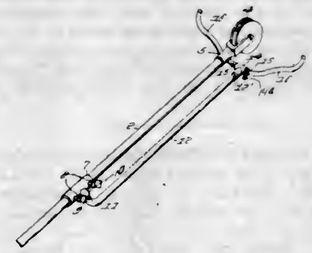
1,376,203. SHOWCASE. WALTER PAYNE HIMES, New Bethlehem, Pa., assignor of one-half to Leslie R. Himes, New Bethlehem, Pa. Filed Mar. 29, 1920. Serial No. 369,493. 8 Claims. (Cl. 211—25.)



3. A show case, comprising a hollow metal base, a lower compartment attached to the base and provided with a glass top and with sliding doors at the front, each door being formed of a single glass plate, and an upper compartment having side legs resting on the lower compartment to space the upper compartment from the glass top, the said upper compartment being provided at the front with sliding doors each formed of a single glass plate.

1,376,204. TROLLEY-WHEEL GUARD. AMOS L. HITCHCOCK, Carrabelle, Fla. Filed Apr. 7, 1920. Serial No. 372,009. 3 Claims. (Cl. 191—74.)

1. The combination with a trolley pole including a trolley wheel operatively mounted in the head thereof, of a bracket arm on the trolley pole positioned in a plane substantially parallel thereto, the upper end of the bracket arm having guard arms extending laterally, upwardly and curved partly toward the wire either one of which adapted to be engaged by the wire when it leaves the wheel, thereby preventing the trolley pole from rising to a point where it would damage the trolley or span wires, said guard arms being adjustable rotatively so as



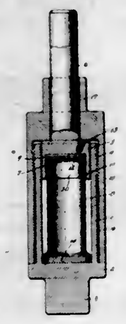
to dispose the laterally, upwardly and curved parts in different positions relatively to the trolley wire.

1,376,205. DISK VEHICLE-WHEEL. ROSCOE C. HOFFMAN, Indianapolis, Ind. Filed July 6, 1920. Serial No. 394,239. 3 Claims. (Cl. 301—63.)



1. A disk wheel and rim integral therewith, formed from a single piece of sheet metal, having an annular depression formed therein, a tire flange formed about the edge of said rim, a rim member having a flange formed thereon, and an enlarged portion on said rim member adapted to seat in said depression for securing said rim member on said rim and locking it in position.

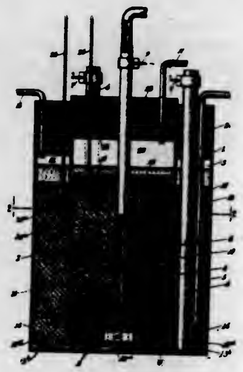
1,376,206. AIR-SPRING. JOHN J. ISLER, Kipling, Mich. Filed Apr. 2, 1920. Serial No. 370,721. 4 Claims. (Cl. 267—35.)



2. A device of the character stated, comprising a cylinder, a plunger in the cylinder, said plunger having

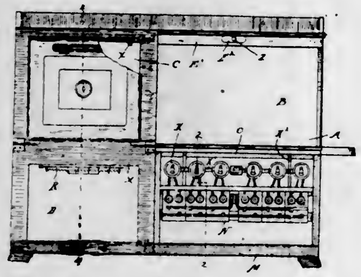
a cylindrical recess in its inner end, a cylindrical pneumatic cushion in the cylinder, one end of said cushion secured in the recess of the plunger, a disk secured in the other end of the cushion, said disk expanding the walls of the cushion and holding the walls of the cushion in contact with the inner face of the cylinder, and said cushion throughout the greater portion of its length having its walls spaced from the inner surface of the cylinder.

1,376,207. PROCESS FOR THE PRODUCTION OF COMPOUNDS BY GAS REACTIONS AND APPARATUS THEREFOR. CHARLES B. JACOBS, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 27, 1919. Serial No. 326,763. 20 Claims. (Cl. 204—31.)



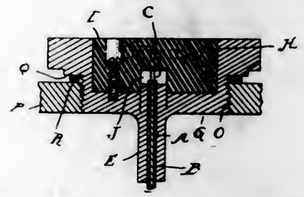
1. The process of producing compounds by gas reactions and substantially independently of the solubility phenomena of the hereafter-named gaseous element relative to the hereafter-named fluid, which includes electrolyzing an electrolytic fluid containing an element liberatable as a gas and combinable with a gaseous second element, mechanically minutely dividing a body of said gaseous element, and mechanically, as distinguished from and substantially independent of working by virtue of the solubility of said gaseous element in said fluid, bringing the divisions of said body into intimate, direct contact with said first named element at the moment of its liberation from the fluid.

1,376,208. ELECTRIC COOKING-RANGE. FRANK KUHN and JAY A. HAND, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 21, 1918. Serial No. 218,407. 7 Claims. (Cl. 219—19.)



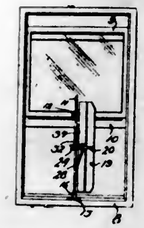
1. In an electric stove, the combination with an open rectangular frame, of a plurality of heating units supported on said frame, and a plurality of shields apertured to receive the respective units and interchangeably mounted on said frame to close the open spaces thereof.

1,376,209. ELECTRICAL HEATING UNIT. FRANK KUHN and JAY A. HAND, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 25, 1919. Serial No. 273,080. 3 Claims. (Cl. 219—41.)



1. An electrical heating unit, comprising a flattened tube closed at one end, a plug or cap secured to the opposite end and recessed to be in open communication with the interior of the tube, an insulated resistor inserted in the flattened tube, said insulated resistor and flattened tube being in good heat conducting engagement, a terminal on said resistor projecting into the recess in the plug, an insulator block in said recess slitted for the passage of said terminal therethrough, and means for connecting said terminal to external conductors mounted on said insulator block.

1,376,210. AIR-DEFLECTING DEVICE FOR WINDOW-FRAMES. FRANK W. LANCASTER, Philadelphia, Pa. Filed Apr. 3, 1920. Serial No. 370,925. 6 Claims. (Cl. 98—21.)

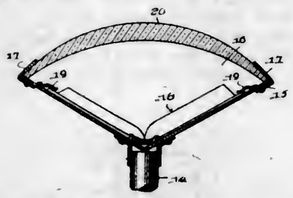


6. A device of the character described including a pivotally mounted post having a brace arm thereon providing an eyelet having recesses therein; a deflecting vane; a rod on said vane having a portion spaced from the vane; a lug on said rod adapted to enter one of said recesses; means for clamping said rod to the post, said lug, when the clamping means is released, being adapted to be swung, with the vane, into a position to slide through said eyelet, said rod having nubs thereon extending in a direction at an angle to said lug and adapted to be moved into said recesses and locked therein by said clamping means after said vane has been turned; and an extension strip movably connected to said vane and having a notch for embracing said post; substantially as described.

1,376,211. PROCESS OF EXTRACTING OILS, FATS, AND FATTY ACIDS. RALPH H. MCKEE, New York, N. Y. Filed May 24, 1919. Serial No. 299,465. 5 Claims. (Cl. 87—6.)

1. The process of extracting oils, fats and fatty acids which consists in dehydrating oil-containing material and subjecting such dehydrated material to the solvent action of liquid sulfur dioxid.

1,376,212. BOOKSTAND. EDNA MAYHEW, Great Bend, Kans. Filed Oct. 5, 1920. Serial No. 414,767. 3 Claims. (Cl. 45—80.)



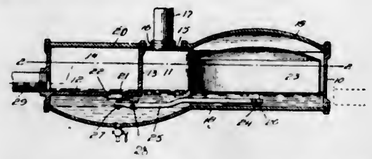
1. A device of the character described comprising a base, a standard rising therefrom and longitudinally adjustable, a frame carried upon the upper end of said standard and designed to support a book, a transparent cover for said frame, and means for effecting a turning of the leaves from the exterior of the frame.

1,376,213. REED-PROTECTING DEVICE. GIOVANNI C. MAZZERI, Virden, Ill. Filed Feb. 2, 1918. Serial No. 215,094. 1 Claim. (Cl. 84—383.)



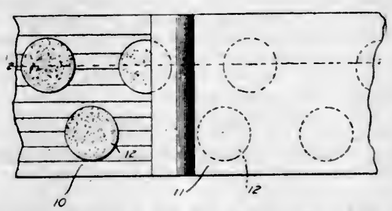
In a device of the class described, the combination with the body of a wind instrument and a reed carried thereby, of a plate extending longitudinally of the reed and between the latter and the mouthpiece of the instrument, said plate having upwardly extending flanges engaging the edges of the reed, and having frictional contact therewith permitting of adjustment with reference to the free end of the reed.

1,376,214. STEAM-TRAP. HOWARD H. MEAD, Quincy, Mich. Filed Sept. 24, 1919. Serial No. 325,967. 2 Claims. (Cl. 137—103.)



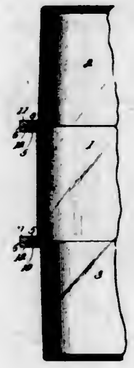
1. In a trap of the class described, a casing including a laterally enlarged chamber at one end and an elevated expansion chamber at the other end, said elevated chamber having an intake valve and a discharge opening, a lever poised near one end and attached at its shorter end to the valve, and a float within the enlarged chamber and pivotally supported on the longer end of the lever.

1,376,215. ROOFING. CHARLES C. MILLARD, O'Neill, Nebr. Filed Sept. 20, 1919. Serial No. 325,075. 1 Claim. (Cl. 154—41.)



A roof structure including a sheathing, a roofing, and a plurality of disks interposed between the sheathing and roofing at spaced points over the area of the latter, said disks being coated on both sides with an adhesive substance to provide a connection between the sheathing and roofing.

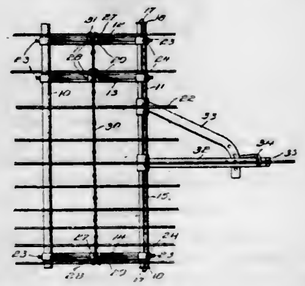
1,376,216. THREE-PIECE METALLIC SHIPPING-BARREL. GEORGE EUGENE MITTINGER, Youngstown, Ohio. Filed May 18, 1920. Serial No. 382,326. 6 Claims. (Cl. 220—5.)



1. A three-piece knock down barrel, comprising a central section having laterally extending flanges at its ends, two end sections each having closed outer ends and annular laterally extending flanges at their inner open ends, all said flanges having their inner edges approximately straight and normally in engagement and their outer edges normally separated to receive a packing between them, and a clamping ring having an outwardly tapered groove in its inner side engaging the separated outer edges of the flanges for drawing them toward each other to hold the straight portions of the flanges firmly together and compress the packing between the outer separated edges of the flanges.

4. A three section barrel comprising a central section having at each end an annular laterally extending flange, two sections having closed outer ends and laterally extending flanges at their inner ends coöperating with the flanges of the central section, means for clamping the flanges toward each other, one end section having a smaller diameter than the central section to nest therein and the other end section of small diameter than the first-mentioned section to nest therein, whereby a close nesting of the parts is accomplished.

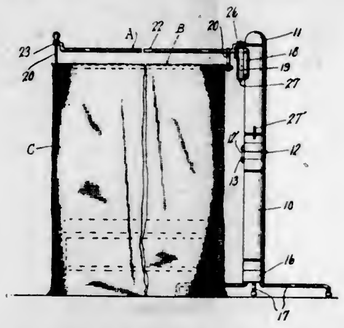
1,376,217. WIRE-FENCE MACHINE. HARRY MOFFETT, Lincoln, Ill. Filed Mar. 8, 1920. Serial No. 364,210. 3 Claims. (Cl. 140—19.)



1. A wire fence machine comprising a pair of standards, one of the standards including a longitudinally

slotted shell and an adjustable core therein, adjustable line wire hooks engaged in the core and working through the slot in the shell, means for fastening the core in adjusted position in the shell, and cross heads disposed horizontally and connecting the standards, each cross head having an intermediate arm provided with a terminal notch to receive a stay.

1,376,218. SUPPORT FOR PROTECTIVE COVERINGS. NOEL W. MORANT, New Orleans, La. Filed Dec. 4, 1920. Serial No. 428,303. 2 Claims. (Cl. 5—14.)



1. A structure of the character described comprising a standard, a frame including spaced upper and lower sections of substantially U shaped formation, means for connecting said sections together, arms pivotally connected to the uppermost section and designed to support the frame upon the standard, said frame being susceptible of being folded when separated from the standard.

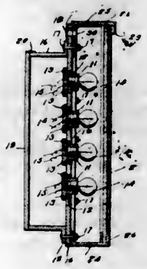
1,376,219. GARMENT AND STAY THEREFOR. CHARLES MUNTER, New York, N. Y. Filed Nov. 9, 1920. Serial No. 422,762. 6 Claims. (Cl. 2—76.)



1. A garment provided with a stay having an opening therein at substantially its longitudinal center and means for securing the stay to the garment, said means comprising an eyelet passing through the stay opening and the garment body material and gripping the garment body material and the stay around the opening.

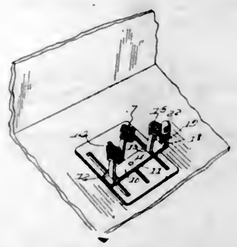
1,376,220. ILLUMINATED LICENSE-PLATE. GEORGE HENRY NEEDHAM, Newark, N. J., assignor of one-half to George Jacob Needham, Newark, N. J. Filed May 17, 1919. Serial No. 297,741. 1 Claim. (Cl. 40—132.)

An illuminated license plate comprising a lamp carrying member having spaced openings therethrough, lamp sockets secured in said openings, lamps removably mounted in said sockets and extended outwardly, an outer casing having inturned flanges around its inner side engaged against the outer face of said lamp carrying member, a transparent plate removably secured in the outer side of said outer casing, a cover for said outer casing normally closed over the upper edge of said transparent plate, a comparatively small rear casing having outturned flanges



around one edge engaged against the rear face of said lamp carrying member opposite the flanges of the outer casing, connecting members secured through the edge portions of said lamp carrying member and through the parallel flanges of the said outer and rear casings, a tube extended into said rear casing for current conducting wires leading to the lamp socket, and a normally closed door for the rear side of said rear casing.

1,376,221. AUTOMOBILE-LOCK. CHARLES R. NORDIN, Omaha, Nebr. Filed Sept. 29, 1919. Serial No. 327,078. 1 Claim. (Cl. 70—126.)

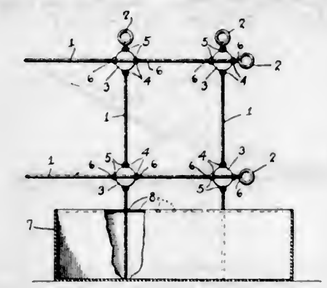


A locking device for automobiles of the type wherein a reverse pedal is disposed for movement between the planes of the clutch and brake pedals, the same comprising a composite bar constituting relatively movable members consisting of plates pivotally connected in superposed relation and at substantially intermediate points in their lengths, each plate being formed with a notch adjacent each end, the two notches in each plate being formed in opposite edges of said plate whereby those in opposite plates constitute complemental means forming seats for engagement respectively with the said clutch and brake pedals, and means for securing said plates in co-extensive relation to dispose the intermediate portions in the path of movement of the reverse pedal.

1,376,222. FRAME. THOMAS W. O'CONNOR, Brooklyn, N. Y. Filed Oct. 18, 1919. Serial No. 331,654. 1 Claim. (Cl. 45—24.)

A stretching frame comprising two pairs of rods having an eye formed at one end of each rod and the other end pointed, circular holding plates for the rod, each having

two pairs of spring wings thereon, one pair of wings extending in an opposite direction from the other pair and



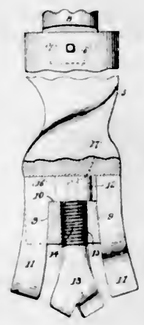
said wings having holes therein to receive the rods, finger engaging tabs on the wings for pressing said wings toward each other and means for holding the material to the rods.

1,376,223. EAR-TAG. ARTHUR A. PANNIER, Salt Lake City, Utah. Filed Nov. 14, 1919. Serial No. 337,921. 2 Claims. (Cl. 40—3.)



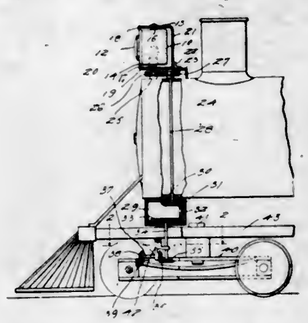
1. In an ear tag, a main plate, prongs integral with and bent at an angle from the edge of the plate, said prongs comprising flat portions with straight blunt edges and beveled portions with sharpened ear-piercing edges, and keeper means adapted to be locked to the plate on the other side of the ear by said prongs and spaced from the plate a distance determined by the length of said blunt edged portions of the prongs.

1,376,224. COAL-DRILL. JOHN PASZKO, Tamaroa, Ill. Filed Nov. 9, 1920. Serial No. 422,903. 5 Claims. (Cl. 255—69.)



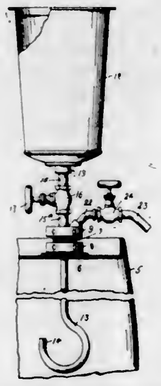
1. A drill of the class described comprising in combination with a spiral rotatable drill body having a transverse opening adjacent its lower end, a pair of outer cutter bits extending longitudinally of said drill body at opposite sides thereof and projecting beyond the lower end of the same, a pair of lateral lugs rigid with the outer cutter bits and projecting into said transverse opening in overlapping relation, said lugs being provided with mating recesses, and an inner cutter bit member detachably connected to the lower end of the drill body and provided with a dowel formed to fit the space provided by said recesses of the lateral lugs whereby the outer cutter bits are rigidly detachably fastened in position.

1,376,225. CONTROLLING DEVICE FOR HEADLIGHTS. GLOVER FRANKLIN PENNINGTON, Tuscumbia, Ala. Filed June 24, 1920. Serial No. 391,507. 1 Claim. (Cl. 240—62.)



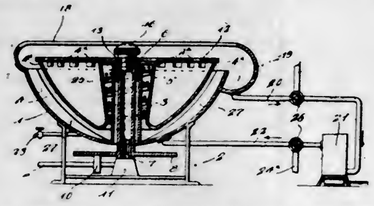
In a device of the class described, the combination with a headlight and a truck of a locomotive, of a supporting frame for rotatably mounting the casing of the headlight, a gear casing beneath the boiler, a plurality of intermeshing gears within said gear casing, a shaft extended upwardly from one of said gears and through the upper wall of said gear casing, a second shaft extended downwardly from another of said gears and through the lower wall of said gear casing, connections between the upwardly extended shaft and the casing of the headlight to rotate the latter a limited distance in either direction, a segmental rack carried by said truck and arranged concentrically with respect to the pivotal point of said truck, and connections between said segmental rack and the downwardly extended shaft to operate the intermeshing gears within said gear casing upon turning of the truck in either direction.

1,376,226. SAFETY LIQUID-DISPENSING APPARATUS. GILBERT H. POOR, Milwaukee, Wis. Filed June 12, 1920. Serial No. 388,553. 6 Claims. (Cl. 221—67.)



1. In an apparatus for dispensing liquids, a hollow plug, a water container, a water outlet pipe connected with the container and extending below the hollow plug, and a dispensing pipe communicating with the plug above the discharge terminal of said outlet pipe.

1,376,227. WASHING-MACHINE. HECTOR RABEZZANA, Flint, Mich., assignor of one-half to Axel A. Carlson, Flint, Mich. Filed June 17, 1920. Serial No. 389,748. 3 Claims. (Cl. 68—37.)

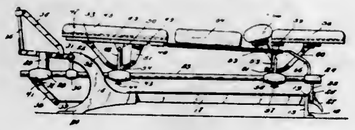


1. A washing machine comprising a stationary tub provided with a centrally disposed upstanding tubular imperforate part, an article container in the tub, being provided with a central apertured tubular part surrounding the first named tubular part and serving to permit passage of fluid from the tub between itself and the adjacent tubular part into the container, the latter being increased in diameter toward its top, and a cover for the container, the latter being provided with finid escape openings adjacent the cover.

1,376,228. AUTOMOBILE-POLISH. PIERRE A. RALLY, Tucson, Ariz. Filed July 13, 1920. Serial No. 395,921. 2 Claims. (Cl. 134—24.)

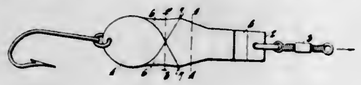
1. A dust proof automobile polish composed of gum mastic, coloring material, naphthalene and alcohol.

1,376,229. CHIROPRACTIC TABLE. WALTER B REPEAT, Dunkirk, N. Y. Filed Apr. 12, 1920. Serial No. 373,194. 2 Claims. (Cl. 128—73.)



1. A device of the character described comprising a pair of spaced parallel horizontal supporting rods, supports therefor, a pair of members longitudinally slidably adjustable upon said rods, a head support angularly adjustable upon one of said members, a chest support adjacent said head support, a legs support carried by the other of said members and including a relatively stationary section and a hinged section, means for tilting said hinged section, and a spring supported abdomen engaging member suspended between said head and legs supports.

1,376,230. ARTIFICIAL TROLLING-BAIT. GILBERT ROBERTSON, Vancouver, British Columbia, Canada. Filed July 22, 1920. Serial No. 398,057. 5 Claims. (Cl. 43—45.)



1. A trolling bait, comprising an elongated body of thin sheet metal, one end to which the trolling line is connected being square across and substantially parallel in width therefrom toward the other end with a transverse groove adjacent the trolling line connection, the other end to which the hook is connected being spoon-shaped, the concavity of the spoon directed to the side opposite the groove.

1,376,231. ORDNANCE. AUGUSTUS SMITH, Roselle, N. J., assignor to Bergen Point Iron Works, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 14, 1916. Serial No. 131,290. 12 Claims. (Cl. 89—40.)



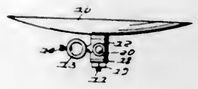
1. In coast defense ordnance and the like, a traveling support, a gun mounted thereon in fixed position with relation to azimuth pointing, and a track curved on the arc of a true circle approximately tangent to the longitudinal axis of the gun and having a known angle and distance relation to the base line of the range-finding survey system, on which track the support is traveled for azimuth pointing of the gun.

2. In coast defense ordnance and the like, a traveling support, a gun mounted thereon in fixed position with relation to azimuth pointing, and a track curved on the arc of a true circle approximately tangent to the longitudinal axis of the gun and having a known angle and distance relation to the base line of the range-finding survey system, on which track the support is traveled for azimuth pointing of the gun, and means for forcing the gun support to travel in the arc of a true circle on said track when the gun is pointed.

9. In coast defense ordnance and the like, a traveling support, a gun mounted thereon, tracks on which said support travels, and friction shoes sliding on said tracks together with means carried by the support for moving the shoes, said means being sufficient to overcome the sliding friction of the shoes on the track, but insufficient to overcome any considerable inertia of the shoes developed by a sudden movement of the gun support.

10. In coast defense ordnance and the like, a traveling support, a gun mounted thereon susceptible of angular elevation, and a track on which said support travels and gearing operated by the wheels of the support on recoil after firing for lowering the gun to position for reloading.

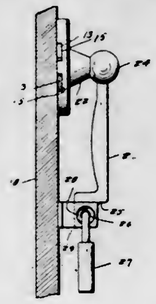
1,376,232. REVERSIBLE-DISK ATTACHMENT FOR CORN-PLOWS. CHARLES W. SMITH, Chambersburg, Ill. Filed May 21, 1919. Serial No. 298,725. 3 Claims. (Cl. 64—66.)



1. The combination with a cultivator disk of a mounting provided with a thimble constituting a bearing for the disk spindle, and a sleeve rigidly related with said thimble with its axis at right angles to that of the thimble and adapted for engagement with a plow standard.

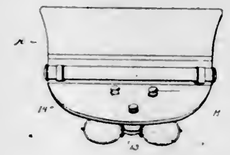
1,376,233. DOOR-FASTENER. LAWRENCE L. SWAN, East Liverpool, Ohio. Filed Jan. 27, 1920. Serial No. 354,382. 2 Claims. (Cl. 292—6.)

2. A lock including a plate for attachment to the object to be locked, bolts, means on the plate to support the bolts for free sliding movement to locked and unlocked positions and complete removal from the plate, said bolts having gear teeth, a pinion meshing with said teeth, a handle to operate said pinion, and an abutment for



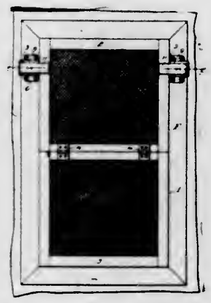
the handle to normally prevent sufficient movement of the handle to disengage the pinion and teeth.

1,376,234. EYEGLASS-HOLDER. JAMES A. TAYLOR, Waco, Ky. Filed May 11, 1920. Serial No. 380,508. 2 Claims. (Cl. 2—106.)



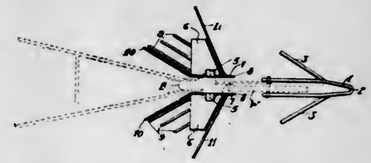
1. A device of the character described comprising a plate detachably secured upon the underside of a cap vizor, said plate being provided at its rear end with a tongue having a lip and having its edges at the sides of the tongue rolled to form bearings, a resilient yoke including a loop journaled within said bearings and engaged by said lip whereby to hold the yoke in adjusted angular positions, eye glasses carried by said yoke, and catch means for holding said glasses and yoke against the underside of the vizor.

1,376,235. WINDOW-SCREEN FASTENER. EMIL TROPH, Madrid, Nebr. Filed July 2, 1920. Serial No. 393,666. 6 Claims. (Cl. 292—80.)



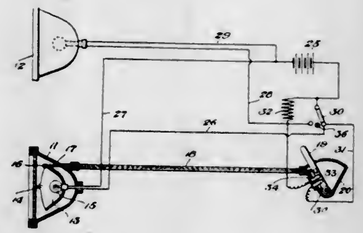
1. The combination with a frame having a removable closure; of a fastener for said closure comprising a base plate, a resilient holder carried thereby having a combined cushioning and gripping member for contact with the sash, and means to hold said member engaged with the sash.

1,376,236. AGRICULTURAL IMPLEMENT. IRVING THOMAS ULLRICH, Wolcott, N. Y. Filed Nov. 26, 1919. Serial No. 340,885. 2 Claims. (Cl. 55—139.)



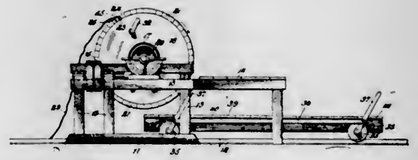
1. The combination with a wheel cultivator, of an onion harvesting attachment comprising an elongated track clearing runner straddling the cultivator wheel in position to be propelled ahead of said wheel, an outwardly extending fender carried on each side of the track clearing runner in position to bend down the onion tops, cutting blades on each side of the cultivator rearward of the wheel, soil separating tines projecting rearwardly from the blades, and an upstanding guide member at the inner end of each of the blades, and having outwardly curved rear ends positioned to direct the severed onions outwardly.

1,376,237. LIGHTING SYSTEM FOR MOTOR-VEHICLES. CHARLES H. VOSS, Hypoluxie, Fla. Filed Nov. 1, 1920. Serial No. 421,158. 3 Claims. (Cl. 240—7.)



1. The combination with a pair of electric head lamps for vehicles arranged to normally illuminate the roadway directly in front of the vehicle, of simultaneously operated means for directing the rays of light from one lamp to one side of the roadway and for dimming the light of the other lamp.

1,376,238. METHOD OF AND APPARATUS FOR TREATING LEATHER. CHARLES L. WHITNEY, Conneaut, Ohio. Filed May 1, 1920. Serial No. 378,298. 21 Claims. (Cl. 149—14.)



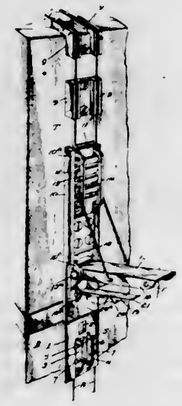
1. The method of treating hides and skins which consists in setting out a hide on a drum and mechanically rotating the latter, and then transferring the hide from the drum directly to a movable drying frame, such transference being effected by the relative movement of said drum and frame without manually handling the hide.

1,276,239. BOTTOM FOR SOAP-BOXES. DANIEL E. WILLIAMSON, Gates, Tenn., assignor of one-half to Ben N. Burleson, Gates, Tenn. Filed May 20, 1920. Serial No. 382,886. 3 Claims. (Cl. 45—28.)



1. A container for soap or the like having inwardly projecting means to prevent contact of the soap directly with the surface of the container to thereby provide a space for circulation of air around the soap, the container having drain openings and tubular projections depending from the container at the openings to rest upon a support and space the container therefrom to reinforce the container, prevent the undue entrance of foreign matter and facilitate the entrance of air.

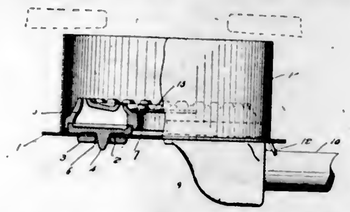
1,376,240. TRUNK-STRAP AND FASTENER THEREFOR. HOMER S. WITHAM, Jacksonville, Fla. Filed Oct. 20, 1920. Serial No. 418,307. 10 Claims. (Cl. 24—206.)



5. The combination with a trunk strap composed of a high grade steel wire; of a plate secured to one end of said wire and adapted to be secured to a trunk body, another plate to be attached to the trunk top, a slide carried by said last mentioned plate and having a plurality of longitudinally spaced teeth on its outer face, a lever fulcrumed at one end on said plate, a rod connected with said lever intermediate its ends and adjustably engaged with the teeth of said slide, and coöperating means carried by said lever and the other plate for locking the lever engaged with the plate, said means comprising a spring pressed clutch member carried by said plate, the lever having an aperture for engagement by said catch member.

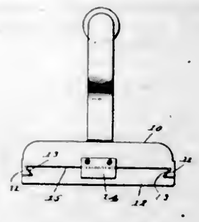
1,376,241. GAS-BURNER ATTACHMENT. WILLIAM E. WRIGHT, Charlotte, Mich., assignor of one-half to Rollo Marple, Charlotte, Mich. Filed Mar. 2, 1920. Serial No. 362,797. 2 Claims. (Cl. 126—214.)

1. A gas burner attachment comprising the combination with a centrally apertured burner and the gas feed pipe and burner supporting member, of a plate engaged upon said gas feed pipe and said supporting member, a portion of said plate being positioned beneath the burner,



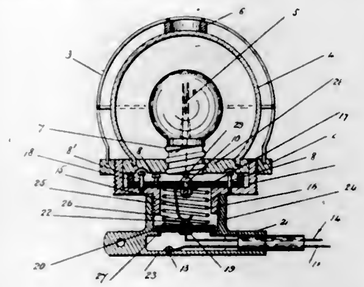
a heat reflecting member mounted on said plate and surrounding the burner, and a heat reflecting plate mounted on said burner over the central aperture thereof.

1,376,242. FLATIRON. FRITZ L. AST, Los Angeles, Calif. Filed Mar. 9, 1920. Serial No. 364,495. 1 Claim. (Cl. 68—26.)



A flat iron comprising a body formed at its side edges with depending undercut flanges defining a longitudinal groove dovetailed in cross section, said flanges and grooves intersecting the curved sides of the iron at points spaced rearwardly from the point of the iron body, a detachable bottom of the same size and shape as the bottom of the body and having at its side edges grooves for conforming engagement with said flanges, all the edges of the detachable bottom being flush with the edges of the body, and a retaining plate secured upon the rear end of the body and engaging against the rear edge of the detachable bottom.

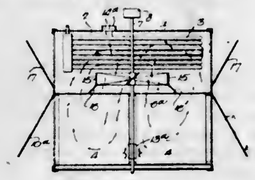
1,376,243. SAFETY-LAMP. NICHOLAS ALBERT AUERT, Longmont, Colo., assignor of one-half to Claus H. Lehbank, Longmont, Colo. Filed Sept. 8, 1920. Serial No. 408,904. 4 Claims. (Cl. 240—17.5.)



1. In a safety lamp, a supporting base provided with a guide, a disk slidable in the guide, an electric lamp and a frangible lamp globe carried by the said disk, a retaining device bearing on the lamp globe and operating normally to hold the lamp in circuit, a vertically adjustable ring secured to the said guide and operating to adjust the

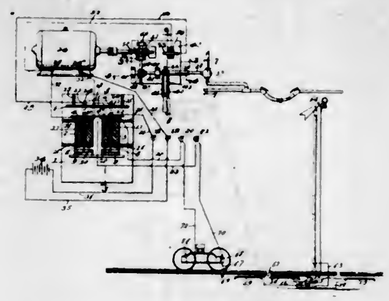
pressure of the retaining device on the lamp globe, means for completing the lamp circuit when the said disk is in its normal position, and means for sliding the disk automatically in its guide, when the lamp globe is broken, so as to break the circuit.

1,376,244. DRIER. ELWOOD B. AYRES, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 27, 1920. Serial No. 384,573. 5 Claims. (Cl. 34—39.)



2. The combination in a drier, of a casing; a drying chamber having two compartments within the casing located side by side; a fan located in one drying compartment so that the air will be circulated by said fan through said compartment, returning through the adjoining compartment and through the heating chamber.

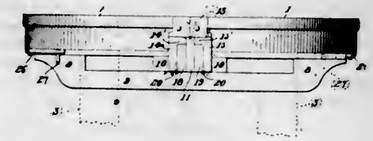
1,376,245. ELECTRIC TRAIN-STOP. GEORGE B. BAILEY, Linton, Ind. Filed Aug. 3, 1918. Serial No. 248,110. 3 Claims. (Cl. 246—195.)



1. In a device of the class described, the combination with an emergency air brake valve of a locomotive, of a tubular member positively engaging the valve stem, a lever mounted at one end of the tubular member, a shaft telescopically engaging the tubular member, a toothed disk carried on the shaft, a spring-heid latch engaging the teeth of said disk, a motor, connections between the motor and the said shaft, an electrical supply means for the motor, a cut-out inserted between the motor and its supply means, means for throwing the motor into circuit with its supply means, and means carried by the lever and engaging the spring-held latch whereby when the motor is put in motion, the valve is operated and the cut-out automatically operated and the latch released from the disk.

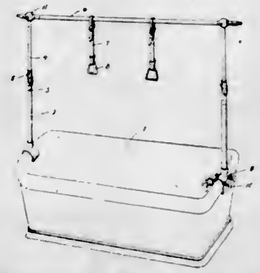
1,376,246. EXTENSION-TABLE. GIOVANNI BALDI, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,564. 1 Claim. (Cl. 45—112.)

In an extension table wherein end top sections are guided in their movements by a longitudinal guide frame, a transverse center board fixed to said frame, a plurality of hingedly connected leaves hinged to opposite sides of the center board, and depending flanges carried by the leaves adjacent the center board to provide lateral spaces



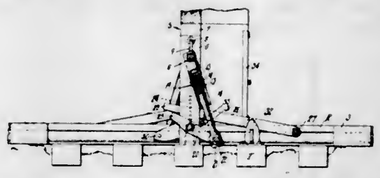
when the leaves are folded for the outer leaves to fold against the inner leaves and lie in the spaces adjacent the center board.

1,376,247. SAFETY DEVICE FOR BATHTUBS. MINNIE RIDGEWAY BISHOP, Chicago, Ill. Filed Oct. 21, 1919. Serial No. 332,159. 3 Claims. (Cl. 4—2.)



1. The combination of a bath-tub and an overhead support overhanging the tub and affording a hand-hold for a person in standing posture getting into and out of the tub or standing in the tub.

1,376,248. MINE-DOOR-OPERATING MECHANISM. GIUSTO BOGGIO, Royalton, Ill. Filed Nov. 26, 1919. Serial No. 340,838. 4 Claims. (Cl. 246—308.)



1. The combination with a doorway having a door mounted to swing in a vertical plane, depressible members on opposite sides of said doorway located in the path of travel, and connections between said members and door operated independently on the depression of the respective member to open the door, one of said members being connected with one side of the door and the other with the other side.

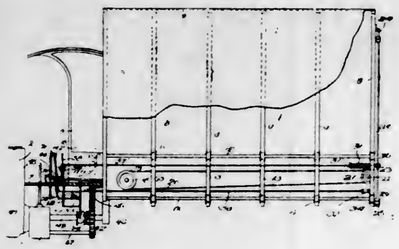
1,376,249. POTATO-BAGGING DEVICE. JOHN J. BUEHLER, Alliance, Ohio. Filed Jan. 10, 1919. Serial No. 270,528. 6 Claims. (Cl. 226—58.)



1. In a bagging device, a sack-holding frame mounted upon a truck and having means for supporting a sack

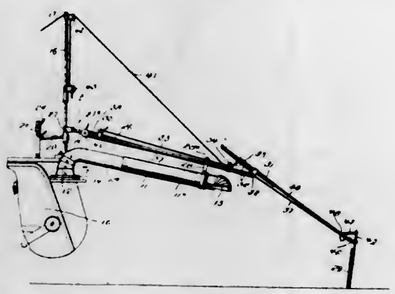
with the mouth distended, an article elevating means, and a two-part discharge chute having its two sections pivotally connected together, one of the sections of the chute being carried by the said frame and the other section thereof pivotally connecting with the first said section and fixedly connected with the elevating means and embodying a circular-shaped element partially surrounded by upturned annular flanges and a U-shaped frame connecting said flanges with the elevating means.

1,376,250. COLLAPSIBLE TRUCK-TOP. LUTHER S. CAMP, Rock Mart, Ga. Filed Dec. 31, 1918. Serial No. 269,061. 6 Claims. (Cl. 296—105.)



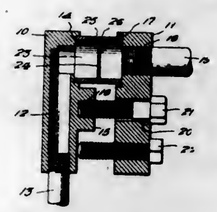
1. In a motor vehicle, in combination with a platform and transmission mechanism thereof, of an extensible and collapsible top operably mounted on the platform, manually controlled means on the platform and operably arranged between the top and the transmission mechanism for extending or collapsing the top, and manually operable means mounted on the platform and engageable with the top for releasably holding the top in an extended position.

1,376,251. BACK-STOP ATTACHMENT FOR STRAW-STACKERS. WALTER W. CARSON, Tipton, Ind.; Livina Pearl Carson, Tipton, Ind., administratrix of said Walter W. Carson, deceased. Filed Aug. 30, 1918. Serial No. 252,038. Renewed Mar. 17, 1921. Serial No. 453,067. 3 Claims. (Cl. 302—10.)



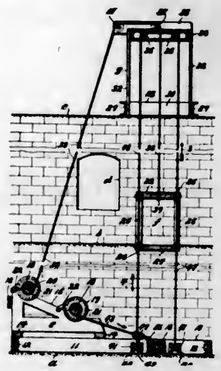
2. A back stop or straw restraining attachment for stackers, having a barrier screen for arrangement in the path of discharge from the stacker spout, a foldable mast or post and means for securing the same in its upright or operative position, a main boom mounted for vertical and lateral swinging movement relative to said mast or post, a sleeve tiltably mounted at an intermediate point of its length upon the outer end of the main boom, an auxiliary boom slidably mounted in said sleeve for extension relative to the main boom and having said screen connected with the forward end thereof, and means for relatively adjusting and securing said elements to maintain the screen in operative relation with the stacker spout.

1,376,252. OIL-BURNER. VAUGHN R. CHADBOURNE, Beaumont, Tex. Filed Feb. 28, 1920. Serial No. 362,148. 1 Claim. (Cl. 158—75.)



An oil burner comprising a section provided at one end with a recess and provided with an oil conducting passage leading into said recess, a second section disposed in spaced relation to said first named section and provided with a recess opposite said first named recess and further provided with a steam conducting hole leading into its recess, a tip formed as a shell having its ends disposed within said recesses and provided intermediate its ends with a partition, the shell having its periphery provided with a circumferential slot at one side of the partition and provided at the other side of the partition with a second circumferential slot disposed at an angle with respect to the first named slot, and means for clamping said tip between said sections, said means comprising a cap screw passing through a hole in the second named section and threaded into the first named section, and a set screw threaded through the second named section and engaging the first named section.

1,376,253. ELEVATOR. ALFRED C. CLARK, Philadelphia, Pa., assignor of one-half to Joe Scott, Philadelphia, Pa. Filed Aug. 27, 1920. Serial No. 406,383. 6 Claims. (Cl. 187—2.)



1. In an elevator having flexible guideways, an elevator platform, an overhead structure, and hoisting mechanism, the combination of means for adjusting the flexible guideways to accommodate the elevator for use at different heights, a landing platform, means for supporting the elevator platform independent of its hoisting mechanism, and steadying devices for the flexible guideways to prevent lateral swinging of the elevator platform when in use.

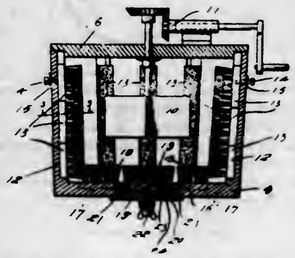
1,376,254. PENCIL-POINTER. ORA R. CLOUGH, Ladysmith, Wis. Filed May 21, 1920. Serial No. 383,241. 2 Claims. (Cl. 120—89.)

2. A device of the class described comprising a cylinder formed of two parts, a strip of sand paper placed around the cylinder and having its end edges passing between portions of the two parts, a plate at each end of the cylinder for holding the two parts together, a handle



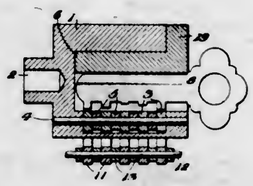
member having a shoulder thereon and passing within the cylinder and engaging the end edges of the strip and flexible supporting means secured to the handle.

1,376,255. WASHING-MACHINE. FLORENCE T. CLUGG, Spencer, Wis. Filed Jan. 28, 1920. Serial No. 354,733. 2 Claims. (Cl. 68—24.)



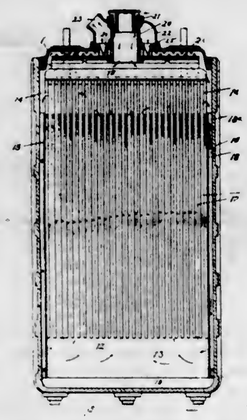
1. A washing machine including a receptacle provided with an opening in the bottom thereof and further provided with dove tail grooves in the inner face of the bottom radiating from the opening and vertical dove tail grooves upon the inner face of the walls of the receptacle, a brush removably engaged in each of the grooves, and a brush accommodated in the opening in the bottom and serving to retain the brushes in the bottom against movement in one direction.

1,376,256. LOCK. ATTILIO CONTE, Buenos Aires, Argentina. Filed July 16, 1920. Serial No. 396,738. 3 Claims. (Cl. 70—46.)



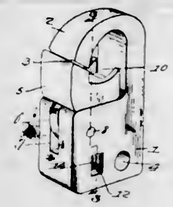
1. In locks with keys having radial teeth of variable length a lock operating device which by means of the key causes the operation of the lock in any suitable manner, said device substantially consisting of an outer cylinder provided with a series of strikers, an epicyclic axle whereon the strikers are mounted, the heads of said strikers being of variable length, a series of pawls arranged opposite to said strikers and bearing on the same, hooks formed on said pawls and adapted to lock said outer cylinder against rotation, an inner cylinder concentric with the outer cylinder and provided with a longitudinal slot for the insertion of the key which by its rotation will move the strikers outward and thereby cause them to release the hooks on said pawls from locking engagement with the outer cylinder, the said inner cylinder being provided with a means for imparting rotation to the outer cylinder after the latter has been released from the pawls, substantially as above described and for the purposes set forth.

1,376,257. STORAGE BATTERY. THOMAS R. COOK, East Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed May 11, 1918. Serial No. 233,836. 9 Claims. (Cl. 204—29.)



1. A storage battery comprising a receptacle containing positive and negative plates and an electrolyte, there being spaces at the top and bottom of the cell for the lateral flow of the electrolyte, and ribbed spacing members between the sides of the outermost plates and the adjacent sides of the receptacle forming vertical passageways for the downward flow of the electrolyte from the space at the top to the space at the bottom of the cell.

1,376,258. LOGGING-HOOK. DILLARD H. COX, Seaside, Oreg. Filed Feb. 11, 1919. Serial No. 276,283. 1 Claim. (Cl. 24—241.)

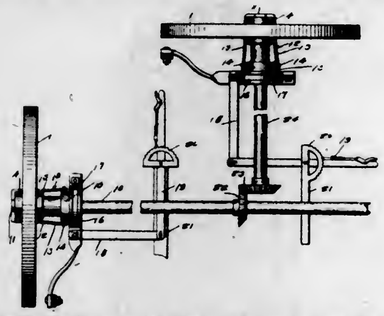


A device of the kind described comprising a body formed with a hook and having a slot, a keeper for the hook having a disk-like shank lying in said slot, a pintle mounted in the body and crossing the slot and pivotally engaging the said disk-like shank, the said shank being formed with a notch, the body being formed on one side with a rectangular slot and on the other side with a counterbore connecting with said slot, a rectangular-shaped latch element mounted in the rectangular slot and engaging with the notch in the shank when the keeper is in closed position for the hook, and a spring disposed in the counterbore and operatively connected with the latch to normally move the latter into engagement with a notch in the shank.

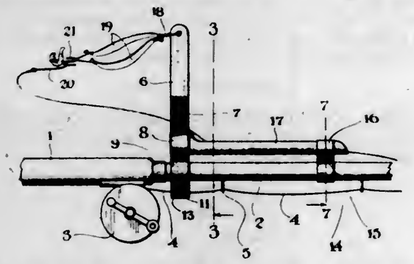
1,376,259. WHEEL. WILLIAM E. CRAWFORD, Devils Lake, N. D. Filed Feb. 12, 1919. Serial No. 276,580. 1 Claim. (Cl. 192—76.)

In a wheel of the character described, a hub provided with an outer annular flange having a central annular groove, said hub being of tubular construction, a rim rots-

tably mounted about the hub flange, a plurality of rods radiating from said hub and slidable through the same and through the flange, the inner end portions of said rods projecting into the interior of the hub, brake heads carried by the rods at the outer ends thereof and positioned in the groove of said flange, a tapered spreader operable in the bore of the hub and movable into engagement with the inner ends of said rods for forcing the same outwardly so as to force said brake heads into tight frictional engagement with the inner surface of said rim and a yoke connected at its intermediate portion to the spreader, and having its end portions passing transversely through the hub and slidably received therein.

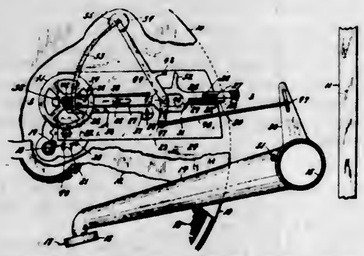


1,376,260. LINE-CASTING DEVICE. DAVID J. DAVIS, Seymour, Conn. Filed July 16, 1920. Serial No. 396,701. 2 Claims. (Cl. 43—19.)



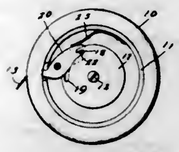
1. In a casting attachment for the lines of fishing poles, a pan supported on the pole and designed to receive the folded portion of a fishing line therein, a yoke at the rear of the pan, a spring sling connected to the yoke, and an S-hook designed to engage with the fish hook, and to be received on the sling, as and for the purpose set forth.

1,376,261. TALKING-MACHINE STOP. ISAAC L. DAVENPORT, Camden, N. J., assignor of one-half to William W. Armstrong, Camden, N. J. Filed July 18, 1919. Serial No. 311,696. 5 Claims. (Cl. 192—116.)



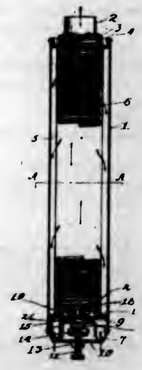
1. A stop for a talking machine including a turn-table, comprising a rotatable shaft, a pinion rotatable thereby, a brake rod mounted to slide and to swing, a gear on the rod and normally out of mesh with said pinion, a brake element on said rod and adapted in brake-applied position to engage the turn-table, an operating rod, a pivoted crank arm, a rack on the crank arm and a pinion on the brake rod and adapted to be brought into contact with the rack when said brake arm is actuated to move the gear thereon into mesh with the first mentioned pinion.

1,376,262. REEL FOR EYEGLASS-CHAINS. COLUMBUS F. DENNY, Wilson, N. C. Filed May 17, 1920. Serial No. 382,094. 6 Claims. (Cl. 242—98.)



1. An eye glass reel comprising a casing, a stationary arbor mounted thereon, a reel mounted for free rotation upon the arbor, a coiled spring connecting the reel and arbor for rotating the former in one direction, a stop secured to the arbor, a spring actuated dog engageable with the stop to prevent rotation of the reel in either direction and means engageable by the chain, whereby the dog may be operated to permit rotation of the reel.

1,376,263. MUFFLER FOR EXHAUST-PIPES. VICTOR LEE EMERSON, Philadelphia, Pa. Filed Dec. 11, 1919. Serial No. 344,088. 6 Claims. (Cl. 137—160.)



1. In a muffler, a housing having an inlet and outlet, an expansion member leading from said inlet and carrying a plate at the end thereof, adjustable retaining means located at the outlet end of said casing, a retaining means attached to said plate, and a resilient means located between said retaining means for controlling the movement of said plate and expansion member.

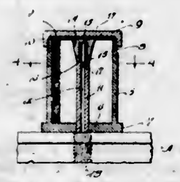
1,376,264. PAPER-TRIMMING MEANS. HARRY F. FORTNER, Clinton, Ind. Filed Sept. 14, 1917. Serial No. 191,466. 5 Claims. (Cl. 164—61.)

1. The combination of the side walls of a main frame, a rod extending transversely between said side walls, open frame-like bearings adjustable on said rod in the direction of the length thereof and pendent from the rod and having opposite openings in their inner side walls adapted for the passage of paper, means to adjustably fix said bearings to the rod, feed rollers arranged between said bearings and having shafts extending through apertures in the bearings and journaled in the side walls of the frame, knives mounted on to rotate with and slide longitudinally of said shafts, said knives having lapped portions outwardly beyond and opposite said openings in the inner side walls of the bearings, springs mounted on the



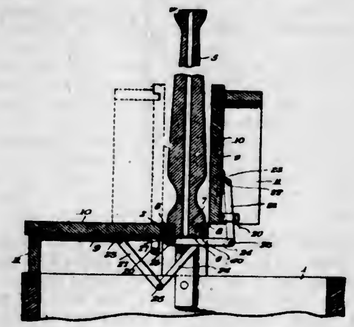
shaft of one feed roller and interposed between the outer walls of the bearings and the knives on said shaft, and springs mounted on the shaft of the other roller and interposed between the inner walls of the bearings and the knives on said shaft.

1,376,265. OIL-CUP. JOHN HENRY FRALEY, Tiffin, Ohio. Filed Nov. 11, 1919. Serial No. 337,161. 3 Claims. (Cl. 184—70.)



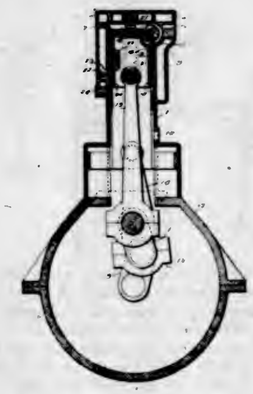
1. In a lubricating oil cup comprising a cylindrical body, having a closed bottom, a screw threaded closure for the top of said body, a coaxially positioned tubular column having a reduced upper end extending in proximity to the said closure, said column being provided with a lateral aperture defining an oil passage between the column and the interior of the body, a truncated socketed head loosely seated upon the reduced upper end of the said column and slightly spaced from the closure, said head normally closing the lateral aperture but free to vibrate between the closure and column to open said passage and screw threaded means for securing said cup to a part to be lubricated.

1,376,266. CABINET. WILLIAM H. FRIEDLINE, Meyersdale, Pa., assignor to Modernola Company, Johnstown, Pa., a Corporation of Pennsylvania. Filed May 13, 1919. Serial No. 296,866. 17 Claims. (Cl. 217—60.)



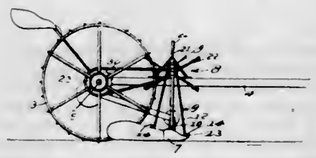
1. The combination of a cabinet body open at its upper end and having supporting means bridging said opening, lids hingedly connected to said supporting means, means interposed between the underside of the supporting means and the lids for limiting the opening movements of said lids, and adjustable means at the underside of the supporting means for regulating said limiting means.

1,376,267. ENGINE. CLAYTON H. FROST, Orange, N. J. Filed May 6, 1920. Serial No. 379,227. 3 Claims. (Cl. 123—66.)



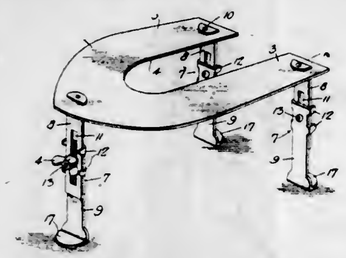
1. An engine comprising a cylinder, a pair of pistons having throws of different lengths arranged therein, one of said pistons being disposed within the other, the cylinder being provided with an inlet, means for establishing communication between said inlet and the space between said pistons, means for establishing communication between said space and the interior of said cylinder, the interior of said cylinder being provided with an exhaust opening, the cylinder wall being provided with a passage communicating with said opening, an exhaust chamber arranged on one side of said cylinder, said passage communicating with said exhaust chamber, and an exhaust outlet communicating with said exhaust chamber, the communication being controlled by the travel of the pistons.

1,376,268. REEL ATTACHMENT FOR MOWING-MACHINES. VIRDIE L. FISHER, Fairplain, W. Va. Filed May 25, 1918. Serial No. 236,496. 1 Claim. (Cl. 56—221.)



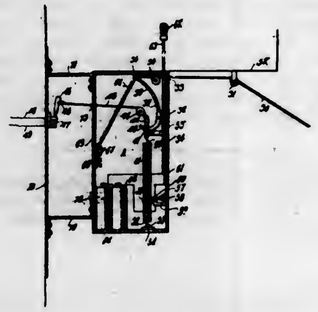
A reel attachment for mowing machines comprising a pair of supports each of which embodies a standard and braces formed integral therewith at the top, the said braces being inclined downwardly and diverging and terminating in attaching feet, means for securing the attaching feet to a mowing machine so as to position the said supports in spaced relation to each other, the standard of each support being formed near its upper end with a series of superposed openings constituting bearings, the bearing openings in one standard alining with the corresponding openings in the other, a shaft journaled in alined openings in the standard, the shaft being mountable in any pair of bearing openings in the two stems whereby its height from the ground may be varied, a reel carried by and rotatable with the shaft, the reel being designed for positioning over the cutting means of the mowing machine, and means for transmitting motion to the shaft from the mowing machine on which the attachment is carried.

1,376,269. SADIRON-STAND. HARRIET L. GALBRAITH, Washington, D. C. Filed Apr. 2, 1920. Serial No. 370,781. 2 Claims. (Cl. 68—27.)



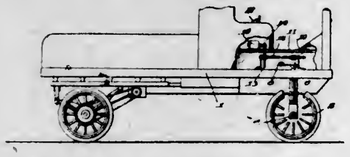
2. A device to enable a flat-iron, when used for cooking and heating purposes, to stand in inverted position, said device comprising a body provided with an opening to permit the insertion of the handle of the iron, and supporting legs depending from said body, said legs being adjustable to permit their length to be varied to conform to iron handles of different heights, whereby the handle of the iron and the supporting legs rest upon the same plane surface, and the weight of the iron and any article placed thereon is borne by the handle of the iron.

1,376,270. PUMP CONTROL. JOHN FRED GATES, Corcoran, Calif. Filed Feb. 13, 1918. Serial No. 216,897. 3 Claims. (Cl. 200—18.



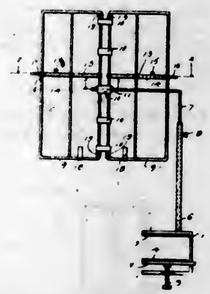
1. A circuit controlling device including separate switch arms, an elastic coupling element adapted to be connected to the switch arms and to be tensionably stretched upon the setting of the arms in a predetermined position, means for holding under given conditions, the coupler element as stretched between the switch arms and means for releasing the coupler element in an emergency whereby it relaxes and shifts the switches to another predetermined position.

1,376,271. ELECTRIC STEERING SYSTEM. HORACE EZEKIEL GOUGE, Bristol, Tenn. Filed Aug. 6, 1920. Serial No. 402,029. 1 Claim. (Cl. 180—80.)



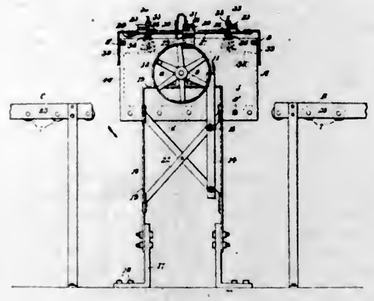
An electric steering apparatus for motor vehicles, comprising the combination with the steering wheels, of vertical shafts carrying said wheels, means interconnecting said wheels for simultaneous movement, a motor having a gear connection with one of said shafts, a source of current, a control switch in circuit with said source of current and said motor, a shaft connected with said switch and with said wheel interconnecting means whereby said switch may be automatically moved to break said circuit upon said wheels being turned to a dangerous angle.

1,376,272. BOOK-HOLDER. WILLIAM R. HANDLEY, Wichita, Kans. Filed Feb. 10, 1921. Serial No. 443,980. 1 Claim. (Cl. 45—82.)



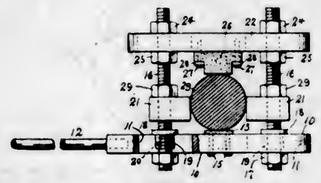
A book holder comprising a clamp member, a tube carried by the clamp member, a rod having angularly disposed end portions one of which is adjustably secured in the tube, frames pivotally connected together at their inner ends by means of links, one of the links having a sleeve which receives one end of the rod, guides disposed transversely across the frames at points between their upper and lower edges, hooks mounted at the lower portions of the frames, and hooks adjustably mounted in the guides, one of the said hooks having a spring pressed bill end pivoted portion.

1,376,273. LIQUID-MIXING MACHINE. EARL L. HANSELL, Pittsburgh, Pa. Filed Dec. 31, 1920. Serial No. 434,343. 27 Claims. (Cl. 259—81.)



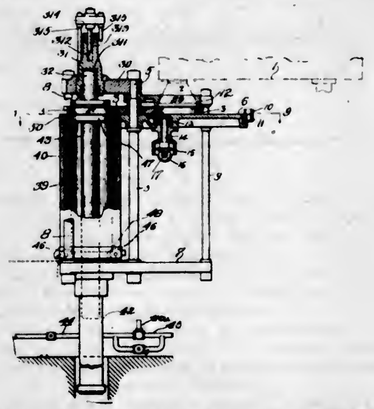
1. A liquid mixing machine including a rotatable mixing device, means to facilitate feeding of crates of bottles from a filling machine to one end of said mixing device, the mixing device being constructed with open ends and provided with a bottom normally in the same plane as said means, whereby the crates may be readily fed from the latter onto said bottom, quickly operable means for releasably holding the crate in the mixing device while it is rotated, and means at the other end of the mixing device and arranged in substantially the same plane as the bottom of the latter, for permitting the crates to be readily moved out of the mixing device onto the same and for delivering the crates to a desired point of discharge.

1,376,274. CRANK-SHAFT GRINDER. ELIJAH F. HAYS and CHARLES E. GARRISON, Mount Vernon, Ill. Filed July 7, 1920. Serial No. 394,598. 2 Claims. (Cl. 51—205.)



1. An implement of the class described, comprising a base member carrying a feed plate, supporting posts in spaced relation rising from said base member, means for adjusting the posts longitudinally of the base member, supporting blocks carried by said posts, a follower member movably engaging said posts, means for adjusting the follower member on the posts, and an abrading element carried by said follower member.

1,376,275. CAKE-FORMING AND CAGE-LOADING MECHANISM FOR OIL-PRESSES. NELSON B. HENRY, Atlanta, Ga., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed June 1, 1920. Serial No. 385,405. 12 Claims. (Cl. 100—50.)

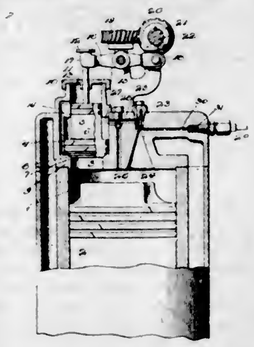


1. Cake forming mechanism having in combination a die member having a die opening formed therethrough; a table on which said die member is rotatably mounted and which serves as a closure for the lower end of said die opening, said table being formed with an opening therethrough across which said die opening passes during the rotation of said member; means for actuating said die member step-by-step to alternately present said die opening to a cooker outlet and bring it to rest over the table opening, and means for ejecting the contents of the die opening while the latter is at rest opposite said table opening.

11. Cake forming and cage loading mechanism having in combination a cage; an open ended forming die movable from a cooker discharge outlet to and over the cage; a plate within the die above the charge and a plunger above the die and cage to compact and form the charge and expel the compacted and formed cake from the die into the cage, against the resistance of a yielding plunger.

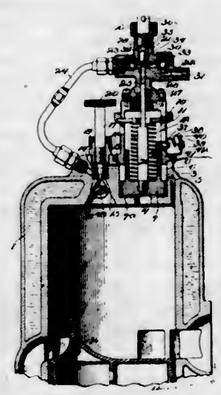
1,376,276. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. HENRY B. HIGGINS, Jr., Denver, Colo. Filed Apr. 13, 1918. Serial No. 228,322. 7 Claims. (Cl. 123—33.)

1. In an internal combustion engine, the combination with a main chamber containing a compressible fluid, means for alternately compressing and expanding said fluid, a supplemental chamber in communication with said main chamber, and adapted to receive a charge of said fluid therefrom, pneumatically operated means in said



supplemental chamber actuated by the compression in the main chamber, after receiving an initial movement from a moving part of said engine, to additionally compress said charge, and eject it for utilization in said main chamber, substantially as described.

1,376,277. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. HENRY B. HIGGINS, Jr., Denver, Colo. Filed Apr. 13, 1918. Serial No. 228,323. 15 Claims. (Cl. 123—33.)



1. An attachment for internal combustion engines provided with a working cylinder and piston, a source of fuel supply, an ignition element and an atomizing element, comprising means actuated by the compression of air in the working cylinder, whereby a charge of compressed aeriform promoter of combustion and of liquid fuel are simultaneously delivered through the atomizing element to the combustion chamber, and means for timing the delivery of the compressed aeriform promoter of combustion and liquid fuel to the combustion chamber with reference to the instant of operation of the ignition element, substantially as described.

1,376,278. LOCK SNAP-HOOK. CHARLES HOKANSON, Crookston, Minn., assignor of one-third to Emanuel Hokanson and one-third to Emma Koeppe, Crookston, Minn. Filed Mar. 21, 1919. Serial No. 283,969. 1 Claim. (Cl. 24—233.)

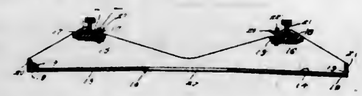
A device of the kind set forth comprising a body portion formed with a hook and a slot therethrough in substan-

tially the plane of the hook, a keeper comprising a body portion corresponding in thickness to the thickness of the slot carried in and movable in the latter, the body portion of the keeper being formed with a pair of spaced legs of which one is of greater width than the body portion but of equal thickness to the hook, the hook and the thicker leg being formed respectively with transversely disposed abutting shoulders engaging each other in the closed position of the keeper, the said thicker leg spanning the



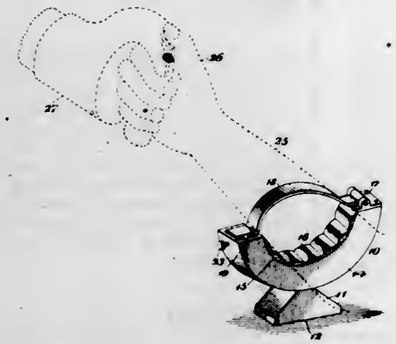
open side of the hook, a pin passing through the body portion of the hook and across the slot therein, the body portion of the keeper being formed with an arcuate slot through which the pin passes and with a tail portion in engagement by the finger, and a flat spring housed within the slot of the body portion of the hook and having its terminal bearing on the body portion of the keeper and tending to keep the thicker leg thereof yieldingly in a position of closure for the open side of the hook.

1,376,279. METALLIC RAILWAY-TIE. HARRY JACOBS, Lordsburg, N. Mex. Filed Dec. 28, 1920. Serial No. 433,563. 2 Claims. (Cl. 238—30.)



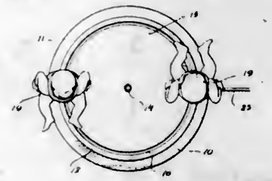
1. A metallic tie comprising a bottom having a substantially horizontal central portion on its lower side, said bottom including downwardly inclined portions between the horizontal member and the end portions of the tie, sides extending upwardly from the bottom member and higher at points designed for location beneath the rails, than at other portions of the tie, said sides having their upper edges gradually inclined downwardly toward the center of the tie, from the higher portion thereof, rail supporting members connecting the higher portions of the sides, and end members connecting the sides and projecting upwardly from the bottom, apertures being formed at the ends of the tie to prevent the accumulation of water.

1,376,280. ARMREST. THOMAS J. JAMES, Philadelphia, Pa., assignor to Thomas Thompson, Philadelphia, Pa. Filed Nov. 10, 1919. Serial No. 336,988. 3 Claims. (Cl. 78—46.)



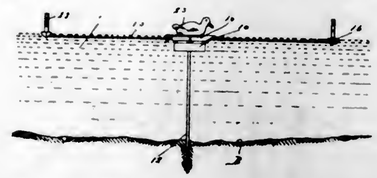
1. A riveter's arm rest comprising a base, an arm body mounted to turn on the base, and a locking strap mounted to swing on the arm body for locking the arm of the riveter in the arm body.

1,376,281. TOY. THOMAS P. JESSEN, Newark, N. J. Filed June 15, 1920. Serial No. 389,143. 2 Claims. (Cl. 46—40.)



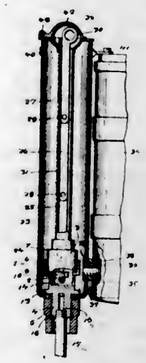
1. A toy comprising a casing having an open top, a centrally arranged standard therein, a disk positioned within the top of the casing and spaced from the edges of the opening to provide a platform having an annular groove, a bar rotatable upon the central standard and having its extremities extending through the annular groove, figures carried by each end of the bar, a toothed member carried by the bar and means including spaced arms engageable with the toothed member whereby the bar may be rotated upon the standard to move the figures around the platform.

1,376,282. DECOY. SHERMAN KAUFFMAN, Brownville, Nebr., assignor of one-third to Charles Gillespie and one-third to Homer Gillespie, Brownville, Nebr. Filed Sept. 20, 1920. Serial No. 411,424. 2 Claims. (Cl. 43—2.)



1. A device of the character described comprising a central supporting block, an anchoring rod extending centrally through said block and adapted to be stuck into the bottom of a stream, said block being rotatable upon said anchoring member, a plurality of radial arms extending from said block, a member carried by the outer end of each arm and supporting a decoy, and a plate pivoted upon the underside of each body and movable in one direction whereby said plates will serve as propelling means when the device is disposed within a current.

1,376,283. FLUID-CONTROL LOCK FOR TANKS. ROBERT S. KLOPFENSTEIN, Wichita, Kans., assignor to National Lock-in-Tank Company, Wichita, Kans., a Corporation. Filed July 19, 1918. Serial No. 245,790. 1 Claim. (Cl. 251—7.)



In a fluid control lock, the combination of a tank having an inlet and an outlet for fluid, a rectilinearly movable

spring-pressed valve for controlling a passage in the tank intermediate said inlet and outlet, a lock in the tank and embodying a revoluble element actuatable by a key and provided with a tappet stud eccentrically disposed to coöperate with the valve, a tube extending outwardly from the lock to a wall of the tank; said tube being adapted for the manipulation therein of the key complementary to the lock.

1,376,284. CLAMP. JOHN A. KOHN, North Fond du Lac, Wis. Filed June 1, 1920. Serial No. 385,666. 1 Claim. (Cl. 248—34.)



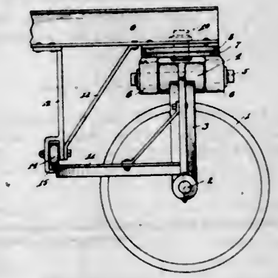
A hanger including a flat leg having a slot adjacent to the bottom thereof and having openings above the slot, pipes arranged against one or both of the faces of the hanger and designed to be supported thereon, clamps for the pipes each comprising a member having a U-shaped body and straight extensions at the end of the body, the straight extension on one end of each of the clamps providing tongues, and the straight extensions on the opposite ends of the clamps being centrally cut away to receive the tongues of the adjacent clamps therein, the tongue of the lowermost clamp designed to be passed through the opening in the hanger, and the straight extension of the uppermost clamp having an aperture therethrough registering with one of the openings in the hanger, securing means passing through the aperture and opening, and bail members arranged to surround the hanger, the straight extension of the uppermost clamp, and the interengaging extensions of the remaining clamps between the pipes.

1,376,285. PROCESS FOR MAKING FIBERS. RUDOLF KNOH, Gersau, Switzerland. Filed Sept. 18, 1919. Serial No. 324,555. 1 Claim. (Cl. 92—6.)

A process for making cheap fibers which felt together not too densely, producing an absorbent, spongy sheet sufficiently strong to breaking and tearing strains and sufficiently durable for application to the manufacture of rough pasteboard to be saturated with tar or bitumen for roofing, linings or the like, which process consists in converting wood in the form of logs or other relatively large pieces, or ligneous or strongly silicious plants into fibers—without use of alkalis or acids—by boiling with water, or by steaming, and subsequently rolling out, crushing and grinding, so as to obtain the natural cellulose fibers without deterioration and not weakened by chemical agents.

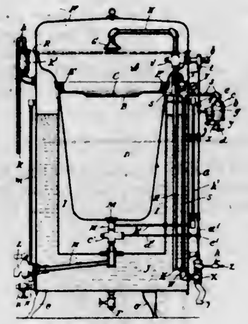
1,376,286. STEERING-ROLLER FOR TRACTORS. JOHN S. LINGARD, Laporte, Ind. Filed Oct. 8, 1919. Serial No. 329,281. 2 Claims. (Cl. 280—109.)

1. The combination with a pivoted yoke of a tractor having a steering roller therein, of a rearward thrust resisting member for said yoke, said member comprising a segmentally shaped bar formed from angle iron and arching the rear of the roller and having its ends connected to the arms of the yoke on each side of the roller, one flange of said segmentally shaped bar being horizontally disposed, a bracket carried by the tractor frame and extending downwardly to a point adjacent the horizontal flange, a roller carried by said bracket and having a raceway on the upper surface of said flange and a finger



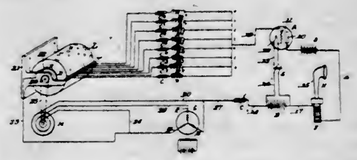
carried by said bracket and extending inwardly under said horizontal flange and forming means for preventing downward movement of the horizontal flange.

1,376,287. COFFEE-URN. JOHN LOUIS MEYFARTH, Brooklyn, N. Y. Filed July 25, 1918. Serial No. 246,661. 14 Claims. (Cl. 53—3.)



1. In a coffee-making urn connected with a boiling water supply, the combination of a ground-coffee receptacle having a discharge-opening covered with filtering material, a beverage jar having an air-tight connection with said opening and means for drawing liquid coffee, means for producing a vacuum in said jar, means for opening the jar to the atmosphere, and means actuated by the operation of the vacuum-producing means, for effecting the closing of communication between the atmosphere and the jar.

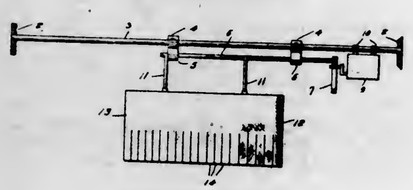
1,376,288. ELECTRICAL SYSTEM FOR PRODUCING MUSICAL TONES. FRANK EBENEZER MILLER, New York, N. Y. Filed Mar. 18, 1915. Serial No. 15,274. 13 Claims. (Cl. 177—7.)



1. In a system for producing selected musical sounds, an audion; a plurality of selector circuits each containing

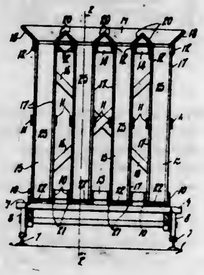
capacity and inductance selected and proportioned relatively to the frequency characteristic of a desired musical sound; a source of electrical energy for said circuits; an electrically operable sounding member separate and distinct from said audion and connected with said circuits for producing the desired musical sound under the influence of said audion; and means for making said selector circuits active selectively.

1,376,289. FAN FOR BEDS. LORENTZ O. REITAN, Haugesund, Norway. Filed Mar. 5, 1920. Serial No. 363,460. 1 Claim. (Cl. 230—7.)



A fan for beds comprising a supporting frame associated with a bed, a supporting rod carried by the frame and extending transversely of the bed, hangers adjustably secured to the rod, an operating shaft journaled in the hangers and extending parallel and in a plane below the rod, means for oscillating the shaft, arms formed on said shaft, a frame carried by said arms and disposed over the bed, and fabric secured to the frame and extending beyond the same at one end and having its free edge cut into a plurality of strips adapted to create a current of air by the oscillation of said frame.

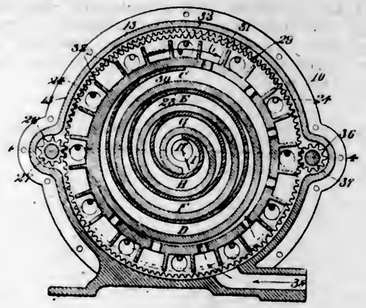
1,376,290. TRAVELING BLEACHING-FRAME. EDWARD TILLOTSON REYNOLDS, Chico, Calif. Filed Nov. 25, 1919. Serial No. 340,622. 7 Claims. (Cl. 34—17.)



3. A traveling bleaching frame comprising a plurality of spaced upright longitudinally-extending compartments, the sides of each compartment being open for circulation of gases, the tops of each compartment being open, a hopper surrounding the tops of all the compartments and extending beyond the ends and sides of the compartments, and peaked closures bridging the spaces between the compartments at their tops, said hopper and closures combining to guide material dropped from above into the compartments without waste or loss.

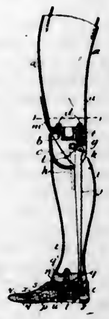
1,376,291. FLUID-COMPRESSOR. RETLOW ROLKERR, Oakland, Calif. Filed Feb. 26, 1918. Serial No. 219,295. 21 Claims. (Cl. 230—30.)

1. In a fluid compressor, a pair of volute vanes disposed about a single shaft, a means for rotating one of said vanes concentric with the shaft and the other of said vanes eccentric thereto, whereby the two vanes will



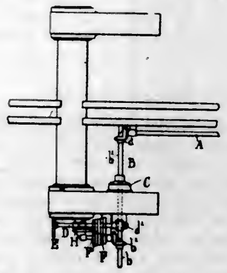
coöperate to force a volume of fluid along and between their convolutions and to the center thereof.

1,376,292. ARTIFICIAL LEG. EUGÈNE SAUZE, St. Etienne, France. Filed Sept. 5, 1918. Serial No. 252,784. 4 Claims. (Cl. 3—2.)



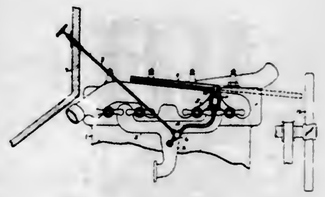
1. An artificial leg comprising a casing, a knee attached to the said casing, a leg adapted to turn on a horizontal axis in the knee, a rod within the said leg adapted to turn about an axis in the said knee eccentric to the axis on which the said leg turns, a cavity in the said foot and an elastic cushion of adjustable thickness within the said cavity upon which cushion the end of the said rod rests.

1,376,293. SPACING MECHANISM. RICHARD SHAW, Manchester, England, assignor to De Bergue & Company Limited, Manchester, England. Filed May 7, 1918. Serial No. 233,058. 4 Claims. (Cl. 73—34.)



1. In a feed mechanism, the combination of an intermittently operated driving shaft, a driven shaft intermittently rotatable in synchronism with said driving shaft, a normally stationary feed shaft loosely mounted on said driving shaft, epicyclic gearing connecting said shafts including a sun pinion secured to feed shaft, an internal gear secured to said driven shaft, and a spider secured to said driving shaft having planet gears rotatably mounted thereon and meshing with said sun pinion and internal gear, and manually operated means for rotating said feed shaft and sun pinion to vary the action of the epicyclic gearing.

1,376,294. ATTACHMENT FOR INTERNAL-COMBUSTION MOTORS. JOHN SHINE, Houston, Tex. Filed May 11, 1920. Serial No. 380,704. 1 Claim. (Cl. 123—122.)



A motor attachment including an inlet conduit, one end of which enters the intake pipe of the motor and the other end of which lies upon the exhaust pipe of the motor and is movable so as to take cold air directly from the motor fan and a means operable from the dash of a vehicle for controlling said air inlet.

1,376,295. WRENCH. FRED M. SMITH, Taft, Calif. Filed May 21, 1920. Serial No. 383,049. 1 Claim. (Cl. 81—127.)



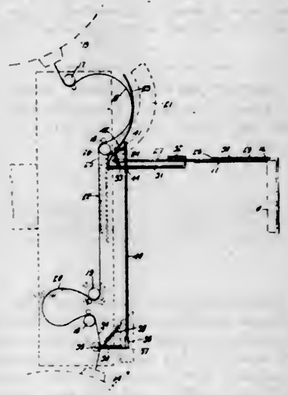
In a wrench, the combination with a shank having a toothed sector around its extremity and a main pivot through its body at the center around which said sector is struck, a collar slidable on said shank and having pawl teeth on its outer end, and a spring urging said collar outward: of a head including spaced wings defining a channel inclosing said sector, the wings being mounted on said main pivot and provided with ratchet sectors to be engaged by said pawl teeth, a rigid jaw carried by said head, and a jaw movable toward and from said rigid jaw and having a bar slidable through the head and provided with a toothed rack engaging said toothed sector.

1,376,296. NUT-LOCK. CHARLES STEWART HASTINGS SNOW, Hampstead, London, England. Filed June 14, 1920. Serial No. 388,885. 1 Claim. (Cl. 151—19.)



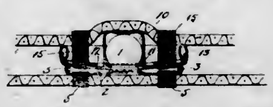
A nut lock comprising a main split sleeve having the external surface tapering with that portion of such surface of greatest diameter plain and that portion of such surface of least diameter threaded in combination with an outer clamping nut having an interior bore corresponding to the exterior surface of the main sleeve and having a plain portion of the sleeve and a threaded portion to cooperate with the threaded portion of the sleeve, both the threaded and plain portions of the clamping nut exerting a clamping action on the main sleeve in the movement of the nut longitudinally of the sleeve.

1,376,297. SAFETY DEVICE FOR PICTURE-PROJECTING APPARATUS. JOSEPH W. SOUTH, Memphis, Tenn. Filed Apr. 21, 1920. Serial No. 375,516. 17 Claims. (Cl. 88—17.)



1. The combination with a picture projecting apparatus embodying a source of light, a film spanning a projecting aperture and film moving mechanism upon opposite sides of the aperture, of a rock-shaft horizontally mounted upon the apparatus, a closure for the source of light, a detent movable with the rock-shaft tending to normally hold the closure open, rock-shaft operating mechanisms on opposite sides of the aperture and means whereby a change in position of the film upon either side of the aperture moves the rock-shaft operating mechanisms from normality to release the closure.

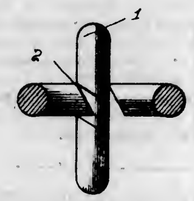
1,376,298. PRESS-STUD. BERNHARD STEINER, New York, N. Y. Filed July 28, 1920. Serial No. 399,536. 1 Claim. (Cl. 24—208.)



A separable fastener, consisting of a pair of members, each member having a peripheral flange, and one member
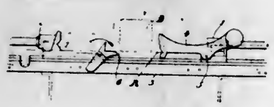
having a central socket and the other having a central stud for entry in said socket, one of said flanges having a stop abutment elevated above the face of the flange adapted to engage the face of the other flange and thereby limit the extent of insertion of said stud in said socket, said flanges having threaded holes by which said members may be sewn to the fabric by passing the threads from hole to hole and thereby leave the flange surface clear where engaged by the stop abutment so as to protect the thread against wear.

1,376,299. CHAIN. DENNIS L. SULLIVAN, Streator, Ill. Filed Sept. 2, 1919. Serial No. 321,192. 1 Claim. (Cl. 59—90.)



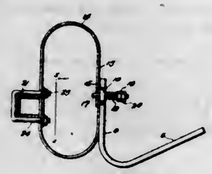
A link having an opening in one of its sides, the walls of said opening being parallel and at an acute angle to the longitudinal axis of the link, whereby a link of similar construction may be readily connected to the first named link, and secured against accidental disconnection therefrom.

1,376,300. BILLET-MANIPULATOR FOR ROLLING-MILLS. EDGAR THOMAS, Jarrow-on-Tyne, England. Filed Jan. 31, 1918. Serial No. 214,747. 9 Claims. (Cl. 80—48.)



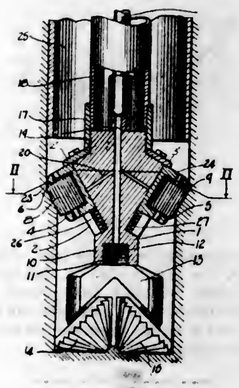
7. In a billet manipulator for rolling mills, the combination of heads movable toward and away from each other and adapted to hold the work therebetween, a forehead pivoted on one head for engaging with the work and adapted to be swung by the reaction of its thrust against the work whereby to also turn the latter, and an extension projecting beyond one end of the turning face of the forehead and having a vertical surface adapted to be presented to the work when the same has been turned on its edge, substantially as described.

1,376,301. AUTOMOBILE-BUMPER. JAMES H. TOBIN, Erie, Pa. Filed Feb. 1, 1921. Serial No. 441,622. 4 Claims. (Cl. 293—55.)



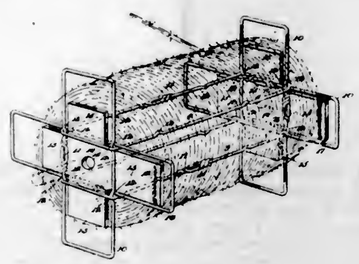
4. In an automobile bumper construction comprising substantially V-shaped hangers for mounting to the frame of an automobile, vertically arranged, elongated elliptical springs rigidly supported by said hangers, apertured ears formed in the free ends of said hangers and near the extremities thereof, clevis members passing through said ears for securing the free end of said springs to said hangers, anti-rattling means carried by said clevises to prevent vibration of said springs, a transverse bumper bar carried by the forward portion of said springs, attaching plates normally lying flush with the interior of said springs, removable, U-shaped bolts embracing the said bumper bar and secured to the attaching plates whereby the said bar may be raised or lowered with respect to the springs or entirely removed from the springs.

1,376,302. WELL-DRILLING DEVICE. JOHN B. WOOLDRIDGE, Kansas City, Mo. Filed Dec. 6, 1919. Serial No. 342,901. 6 Claims. (Cl. 255—73.)



1. In a reamer and drill, a rotary head having a threaded upper end and provided with slotted, upwardly and outwardly inclined sides, the slots extending to points adjacent to the threaded upper end, rotary under-reamers slidably secured in said slots, the upward longitudinal movement of the under-reamers being effective in extending them radially with respect to the head so that they will ream a hole of progressively increasing diameter, a rod coupling receivable on the threaded end of the head, and means closing the upper ends of the slots.

1,376,303. REEL. JOHN YENNETT and EDWARD T. LONKERT, Atlanta, Ga. Filed Feb. 20, 1920. Serial No. 360,265. 3 Claims. (Cl. 242—115.)



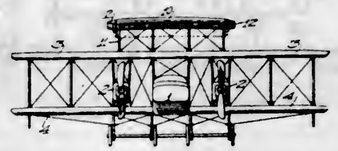
1. A reel consisting of crossed end frames, body frames having their ends engaged over corresponding end frames, and cruciform cheek plates fitted in and held by the end frames.

1,376,304. WIRE-FABRIC ARMOR-PLATE. CASIMIR ZEGLEN, Cleveland, Ohio. Filed June 7, 1917. Serial No. 173,261. 2 Claims. (Cl. 114—11.)



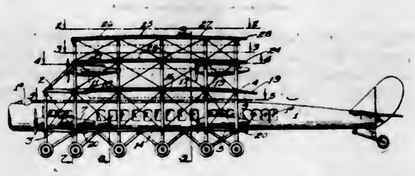
1. An armor plate containing a multiply woven wire fabric composed of relatively hard weft wires and relatively soft or flexible warp wires interwoven with the weft wires.

1,376,305. AEROPLANE. JOHN ZIEGLER, San Diego, Calif. Filed Sept. 9, 1920. Serial No. 409,138. 6 Claims. (Cl. 244—14.)



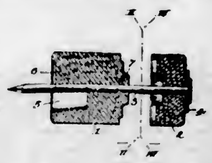
1. An aeroplane including, a pair of planes spaced apart, one above the other and another pair of planes positioned one above the other positioned behind the first mentioned pair of planes in suitable spaced relation, a cover plane positioned above said planes covering a portion of the space between the pairs of planes, and stabilizers, pivotally mounted on the sides of said cover plane.

1,376,306. AEROPLANE. JOHN ZIEGLER, San Diego, Calif. Filed Oct. 4, 1920. Serial No. 414,452. 7 Claims. (Cl. 244—14.)



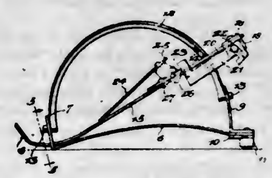
1. An aeroplane, comprising a pair of spaced apart biplanes with connecting planes positioned between the pairs of biplanes and a pair of spaced apart sustaining planes positioned one above the other over said biplanes.

1,376,307. INSULATOR. FRANK M. AMOS, Wheeling, W. Va., assignor to Wheeling Tile Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Apr. 9, 1920. Serial No. 372,549. 8 Claims. (Cl. 173—314.)



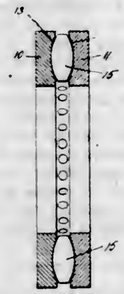
2. In an insulator, the combination of a cap piece; a base, said base and cap having alining bores, and said base having a groove formed in the inner wall thereof, said groove lying in a plane inclined with reference to the bore in the base; and a nail, said nail when passed through the bores contacting the wall of the groove and being deflected thereby whereby the nail and base will be held against separation through friction established between the nail and base while the cap may be moved on the nail toward and from the base for the placement of the wire to be clamped.

1,376,308. TRAP. LAWRENCE J. ANDREWS, Falk, Idaho. Filed Dec. 27, 1920. Serial No. 433,276. 4 Claims. (Cl. 43—92.)



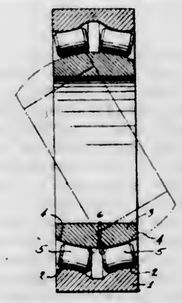
3. A trap comprising a base, jaws swingably mounted thereon, a flat spring fixed at one end to said base and tensioned to have closing action at its other end portion against said jaws, a cross member on said base below the free end of said spring, a trigger including side arms swingably mounted on said spring above said cross member, a cross piece connecting said arms and extending across the upper side of said spring, and detents on said arms arranged to engage said cross member and to hold said spring in set condition when the cross piece of the trigger is in raised position, and a pan arranged to hold said cross piece in that position.

1,376,309. ROLLER-BEARING. PERCY A. E. ARMSTRONG, New York, N. Y. Filed Apr. 13, 1917. Serial No. 161,719. 8 Claims. (Cl. 64—50.)



7. A thrust bearing comprising a pair of laterally spaced parallel race members having bearing surfaces on their adjacent faces, said surfaces being curved transversely in an arc of a circle, and a roller having its surface longitudinally curved in an arc of different radius than the radius of the bearing surfaces, and making substantially point contact with each of the bearing surfaces.

1,376,310. ROLLER-BEARING. PERCY A. E. ARMSTRONG, Watervliet, N. Y. Filed June 13, 1919. Serial No. 303,886. 11 Claims. (Cl. 64—39.)



1. A bearing comprising inner and outer race members each having transversely convex races located at an angle

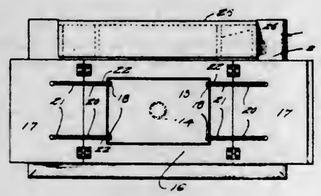
to each other, and two sets of rollers having concave surfaces inclined to each other and adapted to run respectively in said races.

1,376,311. COMBINED THRUST AND JOURNAL ROLLER-BEARING. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Original application filed June 13, 1919. Serial No. 303,886. Divided and this application filed May 1, 1920. Serial No. 378,044. 2 Claims. (Cl. 64—62.)



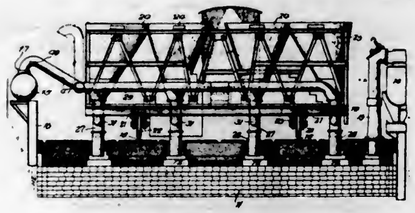
1. A combined radial and thrust roller bearing comprising an inner race member having a convex transversely curved bearing surface of progressively increasing diameter from one side to the other, an annular outer race member having an opening therein of progressively increasing diameter from one side to the other, the increase in diameter being in the same direction in each case, said outer member having an inner transversely curved bearing surface, and a plurality of rollers between said bearing surfaces, said rollers having their axes converging in substantially a cone having its apex in the bearing axis, and said rollers being longitudinally concaved on a radius substantially greater than the radius of convex curvature of the bearing surfaces, whereby the bearing contact is confined to a relatively narrow region at about the middle of the rollers.

1,376,312. TYPEWRITER-DESK. MARGURITE E. BEARD, Westhoff, Tex. Filed Oct. 23, 1919. Serial No. 332,689. 1 Claim. (Cl. 45—52.)



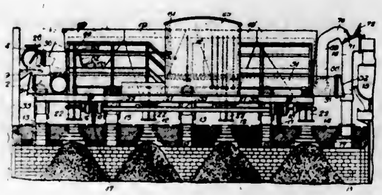
A desk comprising a body having a chamber, a platform located in said chamber for vertical movement and having grooves in its under face and said grooves located adjacent the side edges of said platform, said grooves extending into the end walls of said platform, strips secured to the top of the body and having grooves, doors hinged to said strips and when in one position adapted to close the chamber and when in another position adapted to project beyond the sides of the body to form comparatively wide supports, said doors having grooves in their hinged edges, rollers located in the second mentioned grooves and secured to the strips, and flexible elements secured in the first named grooves and passing through the second mentioned grooves and over the rollers and secured within the third mentioned grooves of the doors for raising and lowering the platform by said doors moving into chamber opening and closing positions, said grooves preventing lateral displacement of the flexible elements and permitting the doors when in one position to rest evenly on the strips.

1,376,313. COKE-OVEN-CHARGING CAR. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1918. Serial No. 264,964. 12 Claims. (Cl. 202—5.)



1. The combination of a coking oven provided with a coking chamber having a plurality of recharging openings and provided with a stationary main for carrying off the smoke incidental to the charging of such chamber, means for charging the coking chamber through said openings individually and independently of each other, and means for collectively connecting said openings with said smoke main during a charging operation, whereby smoke may pass through all of said openings to said main; substantially as specified.

1,376,314. COKE-OVEN SMOKE-DISCHARGING MEANS. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1919. Serial No. 330,990. 15 Claims. (Cl. 202—5.)

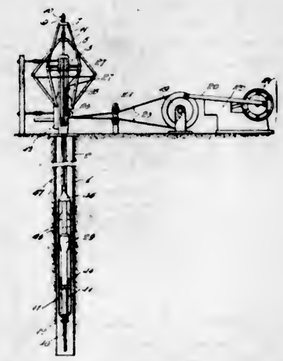


15. In a coke-oven, in combination: an elongated oven chamber provided with a plurality of smoke outlets respectively leading directly into the atmosphere; a smoke main; a gas collecting main; and means, operable at will, for selectively connecting in unison the several smoke outlets of the oven chamber with either of said mains; substantially as specified.

1,376,315. DOUBLE-ACTING PUMP AND OPERATING MECHANISM. SAMUEL T. BRIZENDINE, Kansas City, Mo. Filed May 13, 1920. Serial No. 381,141. 4 Claims. (Cl. 103—77.)

1. In a pump, a chamber having an inlet and an outlet, a valve ball in the chamber for closing the inlet, a guard strip positioned in the chamber and having its end portions secured to the walls thereof and its intermediate

portion bent to extend partially about the inlet, and a flange extending inwardly from the intermediate portion



of the guard strip to limit movement of the valve ball through engagement of the flange by the valve ball when moved out of operative relation to the inlet.

1,376,316. PROJECTILE. CONSTANTIN CHILOWSKY, Paris, France. Filed Oct. 24, 1918. Serial No. 259,556. 11 Claims. (Cl. 102—26.)



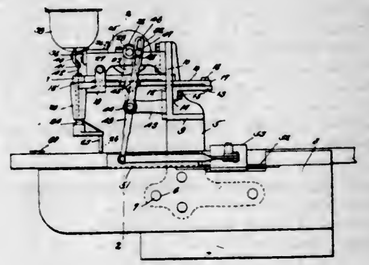
8. A projectile having means for reducing the resistance to its flight by heating the air around the nose of the projectile, comprising a receptacle for combustible connected to the front of the projectile, means for igniting the combustible and means for directing the burning gases of combustion around the nose of the projectile.

1,376,317. AUTOMATICALLY-OPERATING MECHANICAL HANDLING APPARATUS. ALBERT GUSTAVE CLAPIER, Chambon-Fengerolles, France. Filed Mar. 5, 1920. Serial No. 363,445. 3 Claims. (Cl. 254—93.)



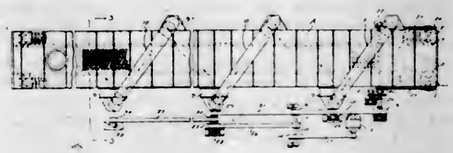
1. In apparatus for mechanically handling a load, a stationary support, a cylinder pivotally attached to the support and having a combined inlet and outlet port, a piston and a piston rod, a guide pulley, a flexible member passing over the pulley, and operatively connected at one end with said piston rod, a receptacle for a load suspended from the other end of the flexible member, a duct communicating at one end with a source of supply of motive fluid, a tubular conduit connected at one of its ends with said combined inlet and outlet port, means adapted to control communication between the second end of the tubular conduit and the second end of the fluid supply duct and the atmosphere, the said means becoming operative by the action of a pull transmitted through the flexible member to the piston rod in a manner to establish communication between the ends of the duct and conduit whereby the piston moves under the influence of the motive fluid flowing through the conduit and the cylinder port and retracts the said flexible member and the receptacle, substantially as described.

1,376,318. TOBACCO-LOOPER. FRANCIS M. COMSTOCK, Newbern, N. C., assignor to William S. Howell and C. D. Bradham, Newbern, N. C. Filed Aug. 6, 1919. Serial No. 315,724. 7 Claims. (Cl. 131—21.)



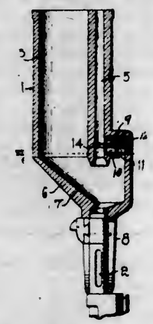
7. In a loop forming machine, a main bracket, an auxiliary bracket, a rotary shaft supported on the main bracket, a cam drum having cam grooves, splined on the rotary shaft, a swinging arm supported under the cam drum, means coöperating with the grooves of the cam drum for moving the cam drum longitudinally of the shaft, means connecting the cam drum and swinging arm to produce a relative movement of the arm with relation to the cam drum, an arm supported on the swinging arm, a looping finger, means on the second mentioned arm and engaging the cam grooves for moving the second mentioned arm laterally, and means for connecting the second mentioned arm and looping finger, whereby movement of the second mentioned arm produces a relative movement of the looping finger.

1,376,319. DRYING-KILN. SIDNEY E. CORNISH, Berkeley, Calif., assignor of one-half to H. H. Plummer, San Francisco, Calif. Filed Jan. 20, 1920. Serial No. 352,743. 5 Claims. (Cl. 34—12.)



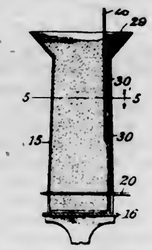
1. A kiln, fans at one side of the kiln, and flues connecting the fans with the other side of the kiln, whereby a continuous circuitous circulation of air is provided transversely through the kiln.

1,376,320. RIFLE-GRENADE. JOSEPH N. CROWE, Washington, D. C., assignor to C. C. Williams, trustee, Acting Chief of Ordnance, U. S. Army. Filed June 8, 1918. Serial No. 239,020. 4 Claims. (Cl. 42—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. The combination, with a rifle, of a grenade-discharger carried by the barrel thereof and provided with a grenade chamber, with a passage for the rifle projectile alined with the bore of the rifle barrel, whereby the rifle-projectile while traversing said passage upon the firing of the rifle acts as an obturator and checks the gases emerging from the end of the barrel, said gases collecting in said grenade chamber to propel the grenade therefrom, and with a valve actuated by the gases of explosion to close said passage.

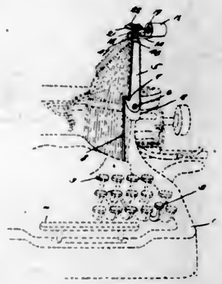
1,376,321. ART OF MAKING FACED CEMENTITIOUS PRODUCTS. ALFRED OWEN CROZIER, New York, N. Y. Filed June 14, 1918. Serial No. 239,926. Renewed July 21, 1920. Serial No. 398,044. 12 Claims. (Cl. 25—156.)



8. In the art of making faced cementitious products or articles, the improvement comprising establishing and maintaining a column of slush concrete of such height that the weight of the column will compact and unwater its lower portion, arranging below the column a pallet carrying on its upper surface a relatively thin body of cementitious facing material of substantially the same area as the bottom of the column, allowing the column to descend suddenly upon said relatively thin body of facing material whereby the same is subjected to the impact of the column and is thereby compacted and united with the column, and carving one or more faced, self-sustaining, unset articles from the compacted and unwatered lower portion of the column.

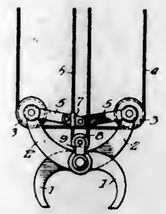
12. In the art of making faced cementitious products or articles, the improvement comprising forming and maintaining an upright body of wet, compacted, unwatered and unset concrete, causing said body to descend upon and unite to itself a facing layer of cementitious material, shaping from the faced lower portion of said body a faced, unset, self-sustaining article, inclosing said article in a lateral support, spreading upon the unset facing a layer of solid particles of the kind described, and exerting pressure upon the layer of solid particles to embed the latter in said facing.

1,376,322. TYPEWRITER-ERASER. HOWARD M. CUTSHAW, Greeneville, Tenn. Filed Apr. 15, 1920. Serial No. 374,096. 3 Claims. (Cl. 197—181.)



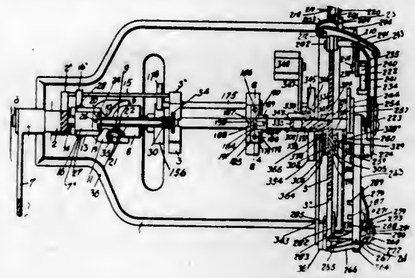
1. In a typewriter, a frame; an arm pivoted to the frame; a key movably mounted on the frame; means for connecting the key with the arm; a motor mounted on the arm; an eraser driven by the motor and carried by the arm; and means responsive to the movement of the key for starting and stopping the motor.

1,376,323. TONGS. HENRY D. DEAM, Benton Harbor, Mich. Original application filed June 17, 1918, Serial No. 240,313. Divided and this application filed Aug. 4, 1919. Serial No. 315,138. 3 Claims. (Cl. 114—51.)



1. In salvaging apparatus a pair of tongs having jaws and handles, a pulley pivoted to the end of each handle, a link pivoted by one end to each handle, the other end of said links being pivotally connected, and means for raising and lowering the connected ends of said links, whereby the jaws of said tongs may be opened or closed.

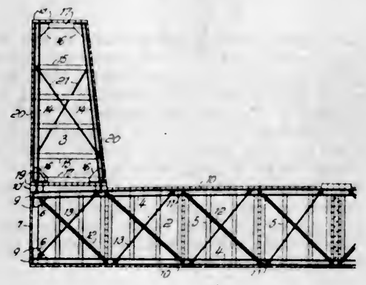
1,376,324. MANTLE SEWING-MACHINE. HERBERT EMMERE, Hamilton, Ontario, Canada. Original application filed Sept. 10, 1917, Serial No. 190,649. Divided and this application filed Mar. 9, 1920. Serial No. 364,502. 7 Claims. (Cl. 112—173.)



1. In a mantle sewing machine, the combination with the reciprocating needles thereof, of a pair of spring

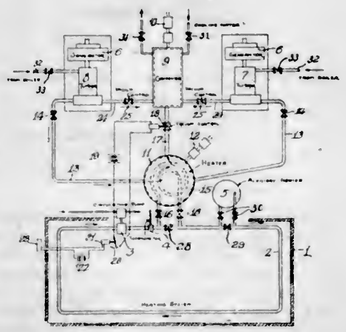
fingers designed to pass vertically through each of the eyes of the needles and to spread outward at their outer ends when passed through such eye and form receiving notches, means for gripping the cord in proximity to its ends and laying such ends into the receiving notches of the spring fingers and means for automatically drawing the spring fingers downward through the eyes of the needles.

1,376,325. FLOATING DRY-DOCK. GUNNAR C. ENGSTRAND, Brooklyn, N. Y. Filed Dec. 29, 1920. Serial No. 433,927. 3 Claims. (Cl. 114—45.)



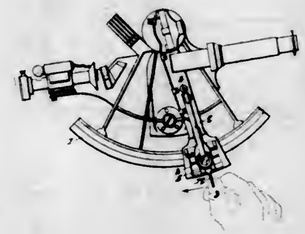
1. In a floating structure, planking, quadrilateral frames comprising double flanged members to support the planking of two opposite sides of the quadrilateral section and single members to support the planking of the remaining sides of the section, each end of the single members being clamped between the double flanged members.

1,376,326. COMBINED HOT-WATER HEATING AND CONDENSING POWER SYSTEM. IRA N. EVANS, Detroit, Mich. Filed May 4, 1918. Serial No. 232,622. 1 Claim. (Cl. 237—12.1.)



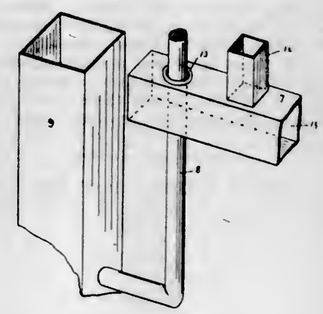
The combination of a power generator having an exhaust, a condenser, a connection between said condenser and the exhaust of said power generator, a condenser heater; connections establishing communication between said condenser heater, said condenser and the exhaust of said power generator; a hot water circulating and heating apparatus having a portion thereof in said condenser heater to simultaneously reduce the pressure of steam exhausting into the condenser heater and cause the water in said heating apparatus to be heated, and means in the connection between said condenser heater and said condenser to vary the exhaust of said condenser heater into said condenser.

1,376,327. FINE-MOTION DEVICE FOR SURVEYING AND OTHER INSTRUMENTS. ERNST G. FISCHER, Washington, D. C. Filed Dec. 18, 1919. Serial No. 345,710. 3 Claims. (Cl. 33—1.)



1. In an instrument of the character described, the combination with the vernier member, the graduated portion of the instrument coöperative therewith and the clamp block and means for securing the clamp block to the graduated portion of the instrument, of finger engageable pins carried respectively by the vernier member and by the clamp block whereby final adjustment of the vernier member may be effected.

1,376,328. SLIDING-SIDE CRIB. WILLIAM B. FOSTER, Utica, N. Y., assignor to Foster Brothers Manufacturing Company, Utica, N. Y., a Corporation. Filed Jan. 19, 1920. Serial No. 352,303. 1 Claim. (Cl. 5—58.)

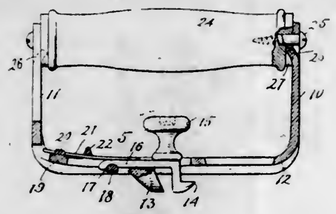


In a sliding-side crib, the combination of a vertical guide rod, a hollow horizontal crib-side member having near its end oppositely disposed apertures through which the guide rod extends, an end closure for the hollow member having ears extending inward past said apertures with holes in said ears in line with said apertures and a bushing extending through said apertures and said holes whereby the end closure is held in place and the cavity of the hollow member is closed and a long guide-way is provided for the guide rod, said bushing entirely separating the guide rod from the hollow member and the ears of the end closure.

1,376,329. SADIRON-HOLDER. SAMUEL H. GIBSON, Cleveland, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 18, 1918. Serial No. 223,023. 3 Claims. (Cl. 68—26.)

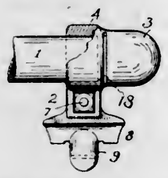
1. A holder for sad irons comprising a U-shaped frame having a hand engaging portion, the base of said frame having a cross member provided with a lug, a yoke

member formed upon the base portion of the frame, a flat spring having an opening which engages with the



post or extension and beneath the yoke member, and a latch member carried by the base of the frame, the end of the flat spring engaging with the said latch.

1,376,330. COMBINED ROD AND ORNAMENT. SAMUEL H. GIBSON, Cleveland, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 25, 1918. Serial No. 224,467. 2 Claims. (Cl. 126—333.)



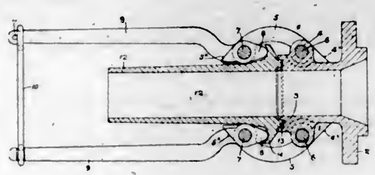
1. An integral bracket and ornament structure comprising a band-like structure having portions adapted to be secured together, an ornament integrally secured to one edge of the band there being a slot separating a portion of the ornament from the band, adjacent that part of the band where the portions thereof are secured together, thereby rendering one of said portions slightly flexible.

1,376,331. CUE-TIP HOLDER. HENRY JOSEPH GRENIER, Bridgeport, Conn. Filed May 12, 1920. Serial No. 380,764. 2 Claims. (Cl. 46—9.)



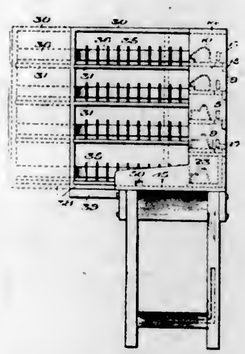
1. A combination with a cue and a sleeve secured to the end of a cue and having an angular longitudinal bore at its outer end, of a tip, an angular shank on the tip fitting the bore, said shank having an opening therein, said sleeve having an opening in its wall registering with the opening in the shank, a spring catch secured to the sleeve and located mainly along the exterior thereof, and having one end projecting into said registering openings securing the shank of the tip within the end of the sleeve.

1,376,332. COUPLING. GEOFFREY MERTON GULLICK, Highfield, near Wigan, England. Filed Dec. 16, 1919. Serial No. 345,252. 1 Claim. (Cl. 285—172.)



A pipe coupling having the members formed for an interfitting connection, one of said members having pivotally mounted diametrically opposed links, a lever pivotally supported in the free end of each link and having a short arm projected in one direction beyond its pivot and a laterally off-set long arm projected in the opposite direction beyond the pivot, and bearing tongues carried by the other member of the coupling to be engaged by the short arms of the levers in the coupling operation, the arm engaged surface of said tongues being rounded, the lever supported end of the links bearing directly upon the surface of one of the coupling members to provide fulcrums for the operation of the levers.

1,376,333. LETTER-CARRIER'S DESK. CLARENCE F. HEATH, Washington, D. C. Filed Apr. 21, 1917. Serial No. 163,634. 1 Claim. (Cl. 211—36.)

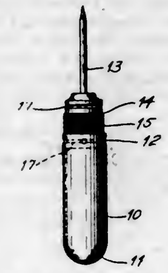


In a routing case, the combination with a plurality of shelves, of partitions therefor dividing the shelves into compartments, each partition comprising a wire bent into substantially U-shape, the ends being inserted into the upper side of the shelves, the front leg of the partition member being formed with an intermediate horizontally extending portion to serve as a guide for the mail matter, the lower ends of the wire preventing the mail matter from sliding into adjacent compartments, and the rear leg being inclined rearwardly to serve as a guide for the mail matter as it is being inserted.

1,376,334. FOOD PRODUCT. MARIE ANNA HEGINGER, New York, N. Y. Filed June 20, 1918. Serial No. 240,925. 3 Claims. (Cl. 99—11.)

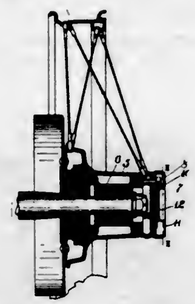
1. That process for preparing potatoes to form an ingredient of a baked food product, which consists in first boiling the potatoes until they have begun to soften, and then in steaming the potatoes until they assume a comparatively dry and mealy condition.

1,376,335. CIGAR-PERFORATOR. PAUL J. HENTSCHEL, Baltimore, Md. Filed Aug. 5, 1920. Serial No. 401,352. 1 Claim. (Cl. 131—20.)



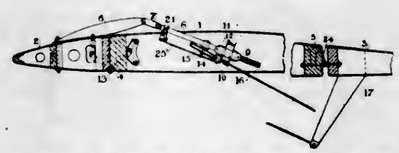
In a cigar perforator, the combination with a casing having a closed and an open end, of indentations near said open end, a head having cylindrical portions adapted to fit within said open end, a groove in each cylindrical portion for the reception of said indentations, a needle mounted in said head and a knurled portion on said head between said grooves.

1,376,336. LOCKING MEANS FOR AUTOMOBILE-WHEELS. CHARLES O. HOWARD, Columbus, Ohio, assignor to The Phelps Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 3, 1919. Serial No. 328,242. 4 Claims. (Cl. 301—9.)



1. In a demountable wheel, the combination with an inner hub part and an outer hub part, of a plurality of bolts equally spaced from the axis of the united hub parts and securing them together, a positioning device for each of said bolts consisting of a spring, and a hub cap having means thereon for locking the springs.

1,376,337. AEROFOIL. MAURICE FRANCIS HUXLEY, Hendon, London, England. Filed Aug. 8, 1919. Serial No. 316,090. 3 Claims. (Cl. 244—12.)



1. An aerofoil having an initial section designed for the purpose of giving a high lift/drift ratio and provided with a hinged nose and a hinged rear flap, forming separate rigid elements, controlling means for moving said nose and flap upwardly and downwardly together, for the purpose of varying the angles of entry and trail simultaneously, and additional controlling means for further deflecting said rear flap upwardly and downwardly for the purpose of lateral control, substantially as hereinbefore set forth.

1,376,338. FRUIT GAGER AND GATHERER. CORNELIUS B. HYSOM, Santa Cruz, Calif. Filed Aug. 9, 1920. Serial No. 402,116. 9 Claims. (Cl. 56—340.)

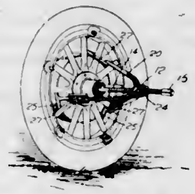


3. In a fruit gaging and gathering device, a wire loop member including a main passage and gaging loops of different sizes, said member also including a socket for securing a reach-pole thereto, said socket being formed by a helical extension of the piece of wire forming said main passage and gaging loops, and cutting means associated with said wire loop member.

1,376,339. BEARING METAL. JAMES G. KELLY, ALBERT L. PRINGLE, and HOLMES HALL, Sedalia, Mo. Filed May 7, 1920. Serial No. 379,642. 2 Claims. (Cl. 75—1.)

1. A bearing metal composed of tin, lead, zinc, and aluminum, substantially in the proportions of one part of aluminum, slightly more than one part of zinc, two parts of lead and four parts of tin.

1,376,340. WHEEL-PULLER. ABRAHAM B. KLAY, Beaverdam, Ohio. Filed May 19, 1920. Serial No. 382,547. 6 Claims. (Cl. 29—85.)

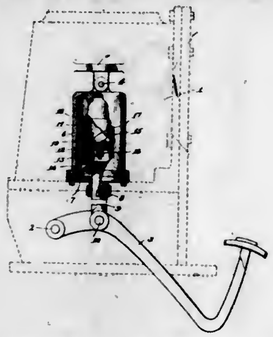


1. A device for removing wheels comprising T-shaped elements for engaging the spokes of the wheel, each of said elements having a plurality of link sections, pivoted levers each having a hook-shaped end adapted to engage one of said hook sections, means for locking said hook-shaped ends in engagement with said links and mechanism for exerting a tensile force on said levers.

1,376,341. CLUTCH-CONTROLLING MECHANISM. JULIUS G. KOPPEL, Akron, Ohio. Filed May 24, 1920. Serial No. 383,744. 2 Claims. (Cl. 188—97.)

1. In a clutch controlling mechanism, the combination with the spring-pressed clutch, and its releasing lever, of a fluid containing casing, a cylinder within said casing provided with a constantly open small relief port and with an intake passage, a valve normally closing said intake passage, and a piston reciprocable in said cylinder and

connected to be operated by said releasing lever, said cylinder being provided with a supplemental relief port



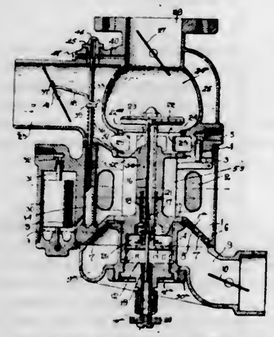
adapted to be opened as said piston approaches its innermost limit of movement therein for quickly releasing said clutch.

1,376,342. RENEWABLE ELECTRIC FUSE. FRANK C. LA MAR and PETER J. HOPKINS, Pittsburgh, Pa. Filed Aug. 16, 1918, Serial No. 250,173. Renewed Mar. 10, 1921. Serial No. 451,330. 2 Claims. (Cl. 200—132.)



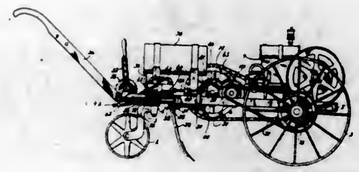
1. A renewable electric fuse, comprising a tubular casing of insulating material, having notches in one of its ends, a ferrule fitted upon the notched end thereof and provided with inwardly projecting ears passing through said notches, screws fixed in said ears and projecting beyond the end of the casing, a fuse element and terminals to which it is connected for supporting the fuse element in the casing, said terminals having cross-bars fixed therein, one of said cross-bars provided at its ends with openings adapted to engage the screws projecting from said ears, and end cap fitted upon the end of the casing over said ferrule and provided with openings for the passage of said screws, nuts screwed upon the projecting ends of said screws for locking the parts in place, and means for securing the cross-bar of the other terminal in the end of the casing at the opposite end of the fuse.

1,376,343. CARBURETER. ELDEN P. LAMB, Camden, Me., assignor of eleven-twentieths to John Bird, Camden, Me. Filed June 7, 1918. Serial No. 238,690. 11 Claims. (Cl. 261—18.)



1. A carbureter having a fuel reservoir, a mixing chamber, an air inlet for the mixing chamber, a fuel port opening into the mixing chamber, a choke valve for controlling the quantity of air admitted to the mixing chamber, a fuel duct having one end adapted to be submerged in the fuel of the fuel reservoir, and a connection between the choke valve and said duct constructed and arranged to establish communication between the fuel in the fuel reservoir and the mixing chamber in response to movement of the choke valve toward closing position, and to cut off said communication in response to movement of the choke valve toward open position.

1,376,344. CULTIVATOR. EARLD H. LAMIELL, Greenwich, Ohio. Filed Oct. 6, 1919. Serial No. 328,711. 3 Claims. (Cl. 97—42.)



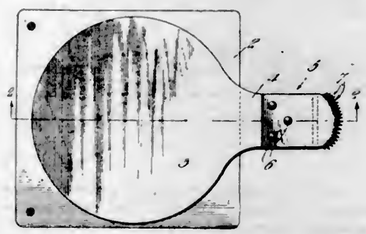
1. In combination with a wheeled frame of the character described, a cultivator pivotally mounted thereon, pivoted casters, and means between the cultivator and casters for holding the cultivator in proper alinement when the wheeled frame is turner toward either side.

1,376,345. DRY-DOCK. PETER S. LAWTON, New Orleans, La. Filed Feb. 7, 1919. Serial No. 275,594. 3 Claims. (Cl. 61—64.)



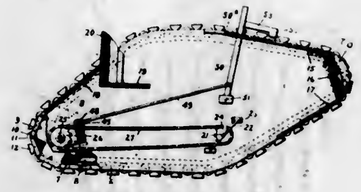
1. In a dry dock having a channel to receive ships by flotation, the combination with a repair platform extending from one side margin of the channel parallel thereto, of building platforms extending parallel to the channel from the remaining side margin of said channel and the inland side of the repair platform respectively.

1,376,346. CULINARY IMPLEMENT. FELIX M. LOCHER, Visalia, Calif. Filed Aug. 9, 1920. Serial No. 402,190. 2 Claims. (Cl. 146—15.)



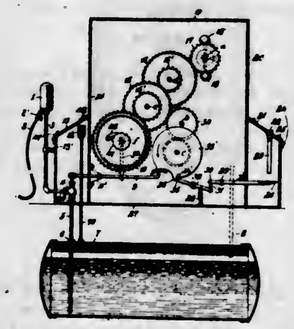
1. A cocoanut shredder comprising a support, and a substantially rectangular metal plate secured to the upper face thereof and extending beyond one end, the outer edge of this plate being curved transversely, bent upwardly, and serrated to provide a plurality of cutting teeth.

1,376,347. TOY TANK. HENRY G. MCCOMB, New York, N. Y. Filed Aug. 21, 1919. Serial No. 318,898. 14 Claims. (Cl. 208—42.)



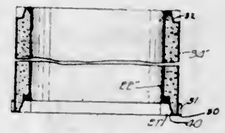
1. In an apparatus of the character described, the combination of a body of the general contour of a tank or "caterpillar" tractor, as used in warfare or agriculture, a seat therein, endless tread chains on said body having parts adapted to engage the surface over which the device is propelled, shaft means adapted to be driven by an operator on said seat, and clutch means under the control of the operator for connecting said shaft means to either one or both said tread chains whereby the apparatus may be steered by clutching and unclutching the tread chains.

1,376,348. LIQUID-DISPENSING APPARATUS. EMIL B. MILLER, Schulenburg, Tex. Filed Oct. 7, 1919. Serial No. 329,143. 1 Claim. (Cl. 221—99.)



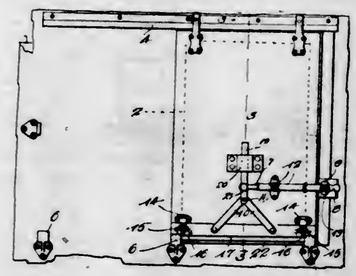
In a coin actuating apparatus, the combination of a liquid reservoir, a conduit extending into the reservoir, a valve arranged in the upper end of the conduit, a conduit extending at right-angles from the valve and then upward, an auxiliary reservoir secured to the upper end of the last-named conduit, a casing arranged around the valve, a stem secured to the valve head, a lever secured to the stem and entering the casing and having a bent end opposite the end secured to the stem, a spring actuated disk having a notch that normally receives the bent end to preclude downward movement of the lever that is secured to the stem; a second notch provided in the disk, a short arm fulcrumed in the casing and having a bent end that normally rests in the last named notch and a comparatively long arm secured to the short arm whereby on downward movement of the long arm the notch of the short arm will be displaced from the notch of the disk to permit rotary motion of said disk.

1,376,349. MEANS FOR FORMING CONCRETE-PIPE SECTIONS. JOSEPH E. MOODY, Chicago, Ill. Filed July 21, 1919. Serial No. 312,363. 9 Claims. (Cl. 25—126.)



8. Means for forming concrete pipe sections comprising a form having rings formed of different diameters, some of said rings comprising sections removable transversely of said form.

1,376,350. CAR-DOOR FASTENING AND RELEASING DEVICE. MARTIN J. NEUMANN and JOSEPH C. MATHER, Oshkosh, Wis. Filed June 1, 1920. Serial No. 385,804. 2 Claims. (Cl. 20—22.)

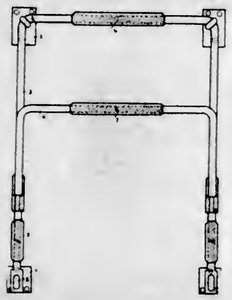


2. The combination with a body having a doorway and a door slidably mounted and having swinging movement toward and away from the body, of a door guide carried by the body beneath the door and having an upstanding head extension positioned in spaced relation to the outer face of the door when the door is in a vertical position, a securing bar extending longitudinally of the lower end portion of the door and slidably mounted for vertical sliding movement, the bar having its lower edge portion beveled from its outer face to provide a cam face for engaging the upstanding head of the door guide and forcing the door into tight engagement with the body, an actuating lever pivotally mounted on said door and comprising a hasp, a keeper on said body to which said hasp is adapted to be releasably secured, and operative connections between said lever and said bar comprising a pair of links secured to the respective ends of said bar whereby on operation of said lever vertical sliding movement is imparted to said bar.

1,376,351. FASTENING DEVICE FOR AWNINGS. OSKAR ÖSTRÖM, Herserud, Lidingö, Sweden. Filed Aug. 5, 1920. Serial No. 401,512. 2 Claims. (Cl. 156—43.)

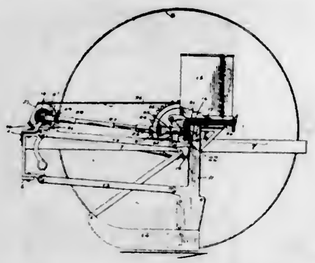
2. An awning fastener comprising an inverted U-shaped clamp the arms of which are extensible and provided with adjusting means and also provided with slots near their lower ends, downturned attaching hooks engaged in said slots, upturned attaching hooks engaged in the angles between the intermediate portion and the arms of said clamp,

and a second inverted U-shaped clamp having its arms pivotally connected at their lower ends to the arms of said



first named clamp, each of said clamps being longitudinally extensible and having adjusting means.

1,376,352. SEED-DISPENSER-DRIVING MECHANISM FOR CORN-PLANTERS. ERNEST W. PAULSON, Sioux City, Iowa, assignor to Perfection Corn Planter Manufacturing Company, Sioux City, Iowa, a Corporation of South Dakota. Filed Jan. 20, 1919. Serial No. 272,199. 2 Claims. (Cl. 111—37.)

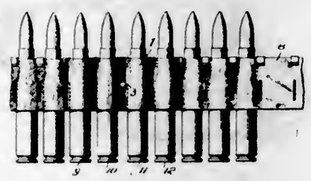


1. In a corn planter a main frame, a plurality of planting mechanisms supported thereby to oscillate vertically with respect to each other and the main frame, and each including an upright seed chute, a seed dispenser thereabove having an opening communicating with the chute, a bevel gear rotatable between the dispenser and chute, and having openings positioned to pass in registration with said first opening, to control the seeds admitted to the chute, bearings on the chutes, spindles rotatable therein, bevel gears on the rear ends of the spindles intermeshed with said first bevel gears, a transverse rotatably mounted shaft on the main frame, yokes having their arms pivoted on said shaft, longitudinally disposed extensible shafts having their front end portions journaled in the shanks of the yokes, bevel gears on said shaft, bevel gears on the said extensible shafts driven by said latter bevel gears, universal joints between said extensible shafts and spindles, and means for rotating said transverse shaft.

1,376,353. PROCESS OF MAKING PAPER, FIBER-BOARD, AND SIMILAR MATERIALS. JAMES C. PEABODY, Boston, Mass. Filed Oct. 23, 1918. Serial No. 259,413. 11 Claims. (Cl. 92—21.)

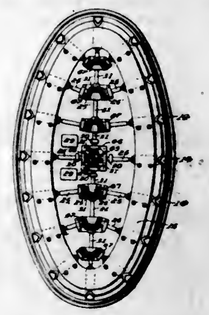
1. The process of making paper which cousists in introducing an added material to a mass of fibers suspended in water in a preliminary container to form a stock of a predetermined standard of concentration with reference to the added material, and forming the paper by means of a machine in which the fiber stock is further diluted but is maintained at substantially the same standard of concentration of added material.

1,376,354. CARTRIDGE-BELT CLAMP. JOHN S. PEOPLES, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Nov. 16, 1918. Serial No. 262,891. 10 Claims. (Cl. 89—35.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A cartridge clamp adapted to secure the last cartridge in one cartridge belt and the first cartridge of another belt, said clamp comprising strips being bent to form substantially circular openings, and the ends of said strips being spaced with relation to each other to accommodate portions of said belts.

1,376,355. VAULT AND SAFE DOOR. EDWARD H. PHIPPS, Philadelphia, Pa. Filed May 15, 1918. Serial No. 234,786. 8 Claims. (Cl. 109—3.)

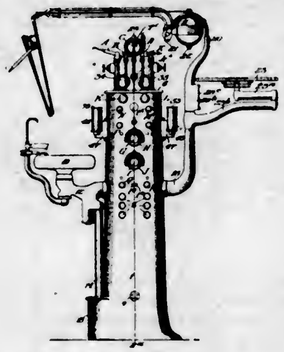


1. In a safe, vault and the like, provided with a door, the combination of a locking means comprising a locking bolt mounted on said door, a bolt socket member in which said bolt is adapted to move, a locking ring provided with a beveled surface mounted on said safe or vault adjacent said bolt socket member, and across which the end of said bolt moves, said bolt provided at its end with a beveled surface corresponding to and adapted to contact with the beveled surface on said locking ring, said bolt socket member provided with a beveled surface, said bolt also provided with a second beveled surface adapted to contact the beveled surface on said bolt socket member whereby the bolt in its movement to locking position may be wedged into locking position in said socket and against said locking ring.

1,376,356. UNITARY DENTAL APPARATUS. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Sept. 5, 1917. Serial No. 189,825. 15 Claims. (Cl. 32—5).

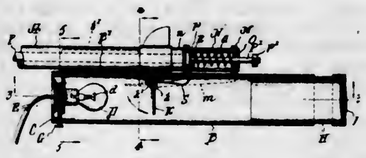
1. An assembled dental apparatus, comprising a hollow column, a plurality of mouth instruments located above the column each having an electric device, separate cord circuits for said devices looped within the column and

having means for yieldingly retracting them, a voltage control device mounted within the column having circuit



connections with said cords, and operating means for said voltage control device extending exteriorly of the column below the mouth instruments.

1,376,357. APPARATUS FOR TRAINING TROOPS IN THE POINTING OF GUNS. OLNEY PLACE, U. S. Army. Filed Oct. 9, 1919. Serial No. 329,554. 14 Claims. (Cl. 124—15.5.)



1. Apparatus for use in training in the pointing of guns, comprising a tube, and means for connecting the same to the gun, an electric lamp mounted in said tube near one end thereof, a lens mounted near the opposite end of said tube, a shutter normally interposed between said lamp and said lens, and means for quickly moving said shutter incident to the normal action of operating the firing mechanism of the piece.

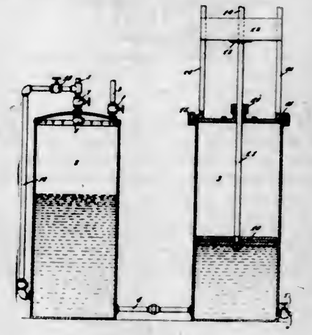
1,376,358. HAIR-TREATING DEVICE. ZIVA POPIN, New York, N. Y. Filed May 17, 1919. Serial No. 297,767. 3 Claims. (Cl. 132—36.)



1. A new article of manufacture, comprising a strip of fabric of oblong form having superimposed thereon other similarly formed strips of fabric which are sewed thereto, said second strips of fabric terminating short of the ends of the first named strips of fabric, said strips being impregnated with a hair treating substance.

1,376,359. APPARATUS FOR STORAGE OF COMPRESSED AIR. PATRICK HENRY QUIGLEY, Winnett, Mont. Filed Mar. 29, 1919. Serial No. 286,207. 1 Claim. (Cl. 230—25.)

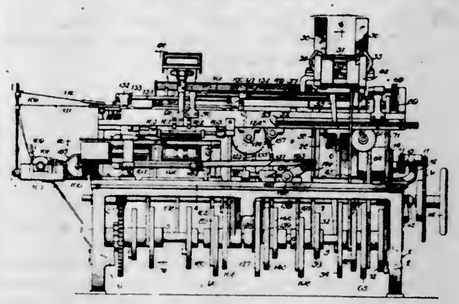
In apparatus of the class described the combination with a tank and guides, of a weight container slidable on the guides, a rod extending downwardly therefrom and into the tank, a piston connected to the rod, a valved water outlet extending from the lower portion of the tank, a second tank, means for maintaining communication between the lower portions of the two tanks, means for



directing air under pressure into the upper portion of the second tank thereby to expel water from said second tank and into the lower portion of the first tank to elevate the piston and the weight holding container, and means for directing air into the second tank and upwardly through the liquid contents thereof thereby to cool said contents.

1,376,360. [WITHDRAWN.]

1,376,361. BOX-MAKING MACHINE. HERBERT J. SAUVAGE, Chicago, Ill., assignor to A. D. Shoup Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 6, 1920. Serial No. 401,732. 40 Claims. (Cl. 93—43.)

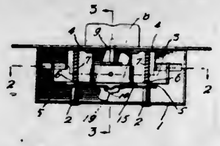


1. In a machine of the character described, the combination of an arbor adapted to be advanced into successive positions, means for applying a folded blank to said arbor in one position thereof, means for feeding a sheet of covering paper into the path of said arbor, and means for applying said sheet to said blank in the movement of said arbor from one to another of said positions.

1,376,362. BAG-LOCK. CLARENCE E. SMITH, Naugatuck, Conn., assignor to Worcester Metal Goods Company, Waterbury, Conn., a Corporation of Massachusetts. Filed Feb. 24, 1921. Serial No. 447,471. 5 Claims. (Cl. 70—2.)

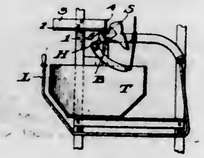
4. In a bag lock, the combination of a casing, two parallel guide-posts therein having shoulders, a bolt having two upper and two lower sliding engagements with said posts guiding said bolt thereon, lower engagements extending below said shoulders, springs surrounding said

posts between said shoulders and said upper engagements, a key-actuated dog pivoted to said bolt between the planes of said upper and lower engagements and provided with a



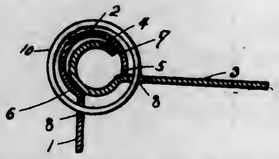
downward extension, said casing having an abutment which is in line with said extension when said dog is in one position and is out of alinement therewith when said dog is in its other position, and a detent for said dog.

1,376,363. LOADING DEVICE FOR SHOE-DIPPING MACHINES. JOHN HENRY WALL, Bristol, R. I. Filed Feb. 10, 1920. Serial No. 357,627. 8 Claims. (Cl. 91—46.)



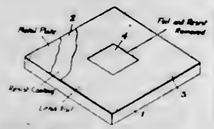
1. In combination with a shoe dipping mechanism including a head having an upwardly facing slot and horizontal tracks above the head having vertical side flanges and having vertical rear end parts bent inwardly from the side flanges to form end stops, the stops being spaced from the rear ends of the tracks to form outlets, which latter are in register with the slot of the head.

1,376,364. STOVEPIPE-JOINT. JAMES WATSON, Marinette, Wis. Filed Feb. 20, 1920. Serial No. 360,266. 3 Claims. (Cl. 126—275.)



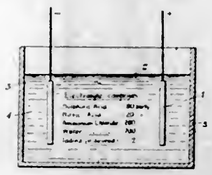
3. A joint comprising first and second members provided with trough-shaped beads, the bead of one member being hingedly received within the bead of the other member, the said members having openings; and an annular securing device surrounding the beads and received in the openings, the securing device constituting means for limiting relative longitudinal movement between the beads.

1,376,365. PROCESS OF PREPARING STENCIL-PLATES, DIE-PLATES, AND THE LIKE. GOTTHOLD E. WERTHEIMER, New York, N. Y. Filed Dec. 24, 1917. Serial No. 208,558. 22 Claims. (Cl. 204—1.)



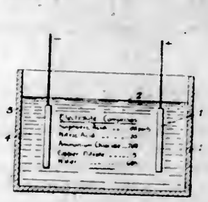
1. A process of the character described, which consists in coating a metallic anode with a coating of lead foil, removing a portion or portions of said coating of predetermined extent and configuration to expose the metal of the anode therethrough, immersing the anode in an electrolytic solution together with a cathode, and removing metal from said exposed portion or portions by causing electric current flow from the anode through said exposed portion or portions and through the solution to the cathode.

1,376,366. SOLUTION OR BATH FOR USE IN ELECTRICALLY PREPARING STENCIL-PLATES, DIE-PLATES, AND THE LIKE. GOTTHOLD E. WERTHEIMER, New York, N. Y. Filed Dec. 24, 1917. Serial No. 208,559. 7 Claims. (Cl. 204—1.)



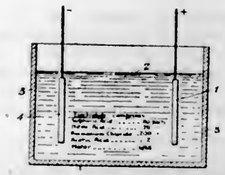
1. A solution for use in the electrolytic treatment of metallic plates or blocks, prepared by mixing together sulfuric acid, nitric acid, ammonium chlorid and water.

1,376,367. SOLUTION OR BATH FOR USE IN ELECTRICALLY PREPARING STENCIL-PLATES, DIE-PLATES, AND THE LIKE. GOTTHOLD E. WERTHEIMER, Astoria, N. Y. Filed May 16, 1918. Serial No. 235,012. 2 Claims. (Cl. 204—1.)



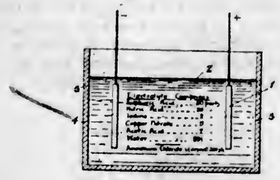
1. A solution for use in the electrolytic treatment of metallic plates or blocks, prepared by mixing together sulfuric acid, nitric acid, ammonium chlorid and water, with a small proportion of copper nitrate.

1,376,368. SOLUTION OR BATH FOR USE IN ELECTRICALLY PREPARING STENCIL-PLATES, DIE-PLATES, AND THE LIKE. GOTTHOLD E. WERTHEIMER, Astoria, N. Y. Filed May 16, 1918. Serial No. 235,013. 2 Claims. (Cl. 204—1.)



1. A solution for use in the electrolytic treatment of metallic plates or blocks, prepared by mixing together sulfuric acid, nitric acid, ammonium chlorid and water, with a small proportion of acetic acid.

1,376,369. SOLUTION OR BATH FOR USE IN ELECTRICALLY PREPARING STENCIL-PLATES, DIE-PLATES, AND THE LIKE. GOTTHOLD E. WERTHEIMER, Astoria, N. Y. Filed May 16, 1918. Serial No. 235,014. 5 Claims. (Cl. 204—1.)



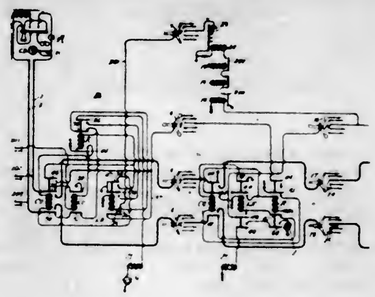
1. A solution for use in the electrolytic treatment of metallic plates or blocks, prepared by mixing together sulfuric acid, nitric acid and water, and small proportions of iodin, copper nitrate and acetic acid.

1,376,370. CARRIER. ARTHUR L. WILLIAMS, Waterbury, Conn., assignor to The Waterbury Brass Goods Corporation, Waterbury, Conn., a Corporation of Connecticut. Filed May 7, 1920. Serial No. 379,435. 4 Claims. (Cl. 113—113.)



1. In a carrier for machines of the character referred to, a reciprocating frame, pairs of rigid fingers pivoted thereto having co-acting faces, springs for actuating said fingers, and means for adjusting the faces of said fingers longitudinally relatively to said frame and securing them rigidly in place against longitudinal movement when so adjusted.

1,376,371. AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1916. Serial No. 123,267. 40 Claims. (Cl. 179—18.)



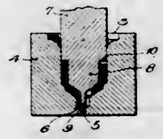
1. A telephone system including groups of primary switches, secondary switches accessible to said primary switches and divided into groups, said primary and secondary switches being provided with contact makers adapted to remain in their antecedent progressive positions, a group of first selector switches for each group of secondary switches, and means for preventing any primary switch from connecting to an idle secondary switch in a group where all the first selector switches are busy.

1,376,372. SOFT-COLLAR HOLDER. EARLE N. FONTNEAU, Attleboro, Mass. Filed Aug. 12, 1920. Serial No. 403,166. 4 Claims. (Cl. 24—73.)



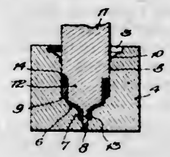
1. A soft collar holder composed of a pair of relatively wide strips having their inner ends interconnected and slidable for adjustment and having their outer ends twisted and inclined to form wide button shanks, and button heads soldered to the outer free end edges of the strips.

1,376,373. ART OF EXTRUDING COLLAPSIBLE TUBES. WILLIAM C. HUNTOON, Providence, R. I. Filed June 10, 1919. Serial No. 303,180. 4 Claims. (Cl. 207—10.)



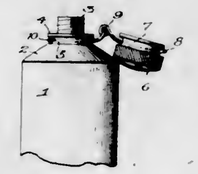
1. The art of extruding collapsible tubes, consisting in placing a centrally apertured disk in a die, inserting a plunger to draw the blank down into the die to thereby form an inverted blank comprising a cylindrical side wall and a top wall, and then exerting pressure on the top wall to force the same into the central aperture in a substantially radial direction and then axially to extrude a neck therefrom by thinning out the top wall and leaving the side wall of original thickness.

1,376,374. ART OF DRAWING COLLAPSIBLE TUBES. WILLIAM C. HUNTOON, Providence, R. I. Filed July 24, 1919. Serial No. 313,024. 4 Claims. (Cl. 207—10.)



1. The art of drawing formed blanks from the flat material consisting in extruding the completed top and discharge nozzle in their finished state from the central portion of the material by forcing said central portion first radially inwardly and then axially, and turning the remainder of the flat blank up in the form of a cylinder from which the sides of the flexible tube may subsequently be extruded.

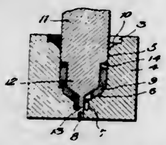
1,376,375. COLLAPSIBLE TUBE. WILLIAM C. HUNTOON, Providence, R. I. Filed July 24, 1919. Serial No. 313,025. 1 Claim. (Cl. 221—60.)



In a collapsible tube having a threaded neck, a relatively thin metal ring integral with the neck and extending outwardly from the threads and spaced above the

upper end closing wall of the tube and forming a groove with said end closing wall, a cap threaded over the neck, a bail encircling the cap, and a bail hingedly connected to the first named bail and received in said groove, the upper face of the ring forming a seat for the rotatable cap so as to seal the tube neck against the ingress of air.

1,376,376. ART OF EXTRUDING COLLAPSIBLE TUBES. WILLIAM C. HUNTOON, Providence, R. I. Filed May 8, 1920. Serial No. 379,758. 4 Claims. (Cl. 207—10.)



1. The art of extruding collapsible tubes from flat stock, consisting in first forming the top, screw threading the nozzle of the top, attaching the cap to the nozzle, and finally extruding the collapsible body of the tube.

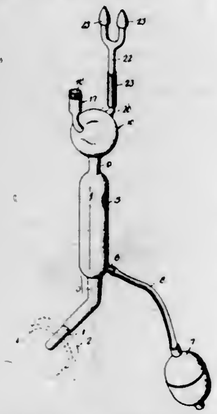
1,376,377. AUTOMOBILE-MIRROR. CHARLES MEE, Rochester, N. Y., assignor of three-tenths to Frank Kelper, Rochester, N. Y. Filed Dec. 8, 1920. Serial No. 429,263. 19 Claims. (Cl. 45—97.)



2. A mirror having two sections hinged together end to end, trunnion bearings for the outer ends of said sections, means for rocking said mirrors on said trunnion bearings.

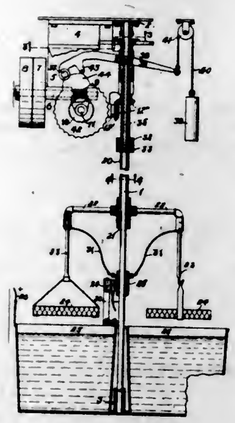
17. In a mirror, a hinge having a swinging plate and a fixed plate, a screw connected by its threads to the swinging plate, said screw having a head engaged below the stationary plate by which it is held against longitudinal movement, a mirror attached to the swinging plate and swinging therewith.

1,376,378. ELECTROMEDICAL APPARATUS. WILLIAM H. MEYENBERG, Lemont, Ill., assignor to J. J. Bleadon, Chicago, Ill. Filed Oct. 29, 1920. Serial No. 420,379. 12 Claims. (Cl. 128—190.)



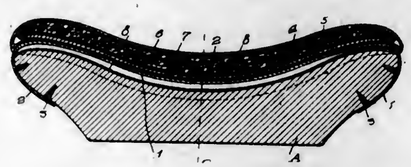
1. In an electro-medical apparatus, the combination of a vacuum tube, a shell surrounding said tube and forming an air space, a vessel communicating with said air space and adapted to contain a quantity of liquid, and a valve intermediate said vessel and air space for preventing the flow of liquid into said space from said vessel.

1,376,379. SILVERWARE CLEANING AND WASHING MACHINE. GEORGE H. NORTH, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed May 17, 1920. Serial No. 381,839. 16 Claims. (Cl. 204—7.)



1. In a machine for cleaning silverware, a vertically movable support having a ware-carrying arm on its lower end, a lever having a fixed fulcrum and rotatably connected to the support for raising and lowering the latter, means acting upon the lever to raise and lower the support, and means for intermittently rotating the support.

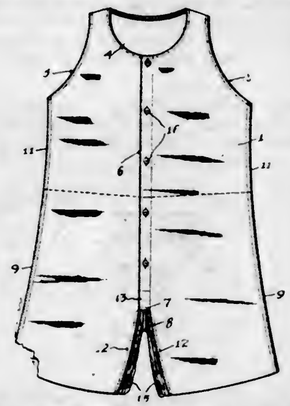
1,376,380. ARMREST. BENJAMIN FRANKLIN PEASE, Cincinnati, Ohio, assignor to The Ohio Truss Co., Cincinnati, Ohio. Filed May 8, 1920. Serial No. 379,913. 4 Claims. (Cl. 135—52.)



4. The combination with a crutch top, of an arm rest secured thereon and including a resilient strip mounted for limited spreading movement, a pad on said strip, a flexible covering extending over the pad and having its edges inturned between said strip and the crutch top, and means for fastening said edges together to hold them normally spaced from the resilient strip, said edges being supported by the crutch top.

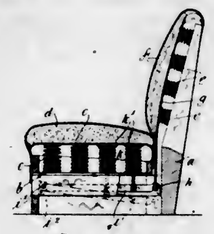
1,376,381. UNDERGARMENT. CHARLES R. WATSON, New York, N. Y.; Sallie Abell Watson executrix of said Charles R. Watson, deceased. Filed Feb. 7, 1920. Serial No. 356,825. 5 Claims. (Cl. 2—144.)

1. A combination garment formed of woven fabric throughout its entire front and approximately half of its back, and having approximately the lower half of its back formed of knitted material, said garment being narrow at the top and very wide at the bottom and increasing in width gradually from top to bottom, and having neck,



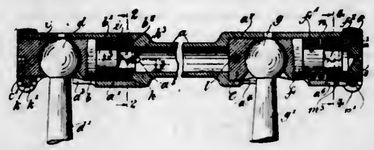
arm and leg openings and only one opening in the body thereof beginning at the crotch and terminating at the neck opening in the front.

1,376,382. CUSHIONED SEAT. MERRILL C. HORINE, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 27, 1920. Serial No. 433,134. 4 Claims. (Cl. 155—53.)



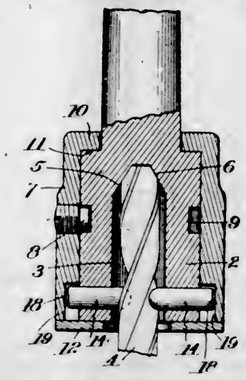
1. A seat comprising a bottom cushion, a back cushion independent thereof and pivoted arms mounted under the bottom cushion and engaged operatively thereby, and means to connect said arms with the back cushion to impress the movements of the bottom cushion on the back cushion.

1,376,383. DRAG-LINK. CASCIOUS H. DE LA MONTE, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 10, 1919. Serial No. 322,933. 5 Claims. (Cl. 287—90.)



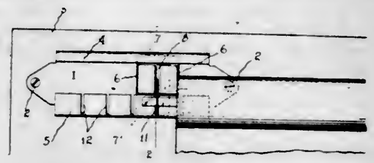
1. In combination with a drag link and arm operatively engaged therewith, a sleeve at one end of the drag link into which the arm extends, a block of less diameter than the sleeve slidably mounted in the sleeve and engaging the arm, a guide plate independent of the sleeve and block and mounted in the sleeve, means to engage the block with the plate to hold the two against relative rotation while permitting relative sliding movement, and means to hold the plate against rotation in the sleeve.

1,376,384. DRILL-CHUCK. MARSELIUS J. LOGAN, Springfield, Va., assignor, by direct and mesne assignments, to Wayne Tool Manufacturing Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1920. Serial No. 358,787. 1 Claim. (Cl. 279—71.)



A chuck for broken drills, having a shank provided with an enlarged cylindrical head forming an annular shoulder at its juncture with the shank, there being an axial socket in said head to receive a drill, said socket having its inner end tapered to center a broken drill therein, a rotary collar fitted around said cylindrical head to bear thereon, a flange on said collar to engage said annular shoulder of the head to prevent outward axial movement of the collar on said head, clamping members mounted to slide radially in the head and adapted to engage in the flutes of a broken drill, said collar also having cam ways for actuating the clamping members, said cam ways opening on the outer end of the collar, a plate secured to said outer end of the collar and overlapping the outer end of the head for preventing inward axial movement of the collar on said head, there being a bore reaching from the outer end of each clamping member obliquely therethrough and into the head, springs in said bores for automatically retracting the clamping members when the latter are released from the pressure of the cam ways, and adjustable plugs in the outer ends of said bores for tensioning said springs.

1,376,385. COMBINED WINDOW SHADE AND CURTAIN FIXTURE. WILLIAM C. J. MILLER, Philadelphia, Pa. Filed Dec. 23, 1919. Serial No. 346,890. Renewed Dec. 22, 1920. Serial No. 432,598. 5 Claims. (Cl. 156—24.)

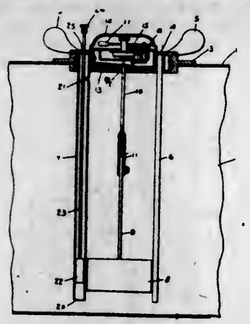


5. A window fixture comprising a strip of rigid material for attachment to a window casing, said strip provided with upper and lower channels, a socket member adjustable within said channels, a shade roller hanger and a curtain pole bracket removably carried by said socket member and means in one of said channels to co-act with said hanger in locking the socket member in an adjusted position.

1,376,386. GAS-TANK ALARM. WALTER E. BEYER, Indianapolis, Ind. Filed Dec. 15, 1919. Serial No. 344,876. 4 Claims. (Cl. 116—111.)

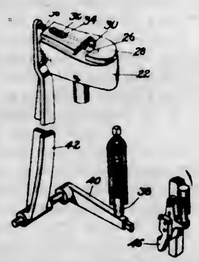
2. An alarm comprising a cap, a float for controlling the operation of the alarm, guides on said cap for guid-

ing said float, one of said guides being hollow, a float therein, a stem carried thereby, the upper end of said



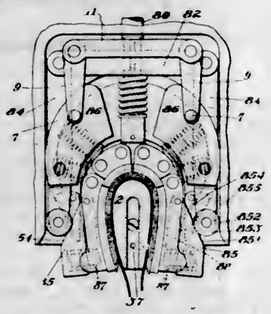
stem having a threaded portion adapted to be screwed into said cap.

1,376,387. METHOD OF MAKING SHOES. MATTHIAS BROCK, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 6, 1918. Serial No. 232,917. 8 Claims. (Cl. 12—142.)



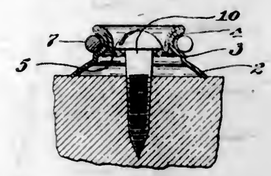
3. That improvement in methods of preparing shoes to be sewed around the end which consists in positioning the end portion of upper materials around a shoe form, and molding the margin of said materials between and in contact with rigid molding instrumentalities to produce a flange upstanding at a definite angle with relation to the tread face of the form around the end of the form and located a predetermined distance inwardly from the edge of said tread face.

1,376,388. SHAPING-MACHINE FOR SHOES. MATTHIAS BROCK, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 21, 1918. Serial No. 235,814. 43 Claims. (Cl. 12—97.)



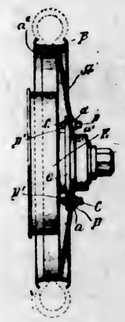
41. In a machine of the class described, the combination with a shoe end embracing band, of wedge members yieldingly connected respectively to the opposite sides of said band, operating means movable lengthwise of the shoe in wedging engagement with said members for closing the band on the shoe, and additional means connected to the band and arranged to be operated by the reverse movement of said operating means to open the band.

1,376,389. SNAP-FASTENER. GEORGE A. HOLMES, Newton Center, Mass., assignor to Fred Joy, Winchester, Mass. Filed May 7, 1920. Serial No. 379,443. 2 Claims. (Cl. 24—215.)



1. A snap fastener consisting of a socket member and a stud member composed of a main portion having a base flange and a hollow shank provided with an annular spring recess surrounding the same and an inwardly projecting attaching flange within the hollow shank, combined with a split ring spring in said spring recess, having its outer circumference normally projecting beyond the circumference of said shank substantially as described.

1,376,390. DEMOUNTABLE WHEEL. ANDRÉ JULES MICHELIN, Paris, France, assignor to Michelin & Cie., Clermont-Ferrand, France, a Corporation of France. Filed May 21, 1919. Serial No. 298,644. Renewed June 3, 1920. Serial No. 386,325. 6 Claims. (Cl. 301—63.)



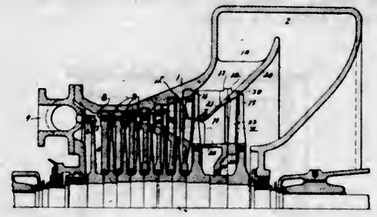
1. In a wheel, the combination with a hub provided with a flange thereon, of an annular dished web plate provided at its inner periphery with a hollow annular rib adapted to register with said flange, the outer wall of said rib being provided with concave sockets, screw-threaded fastening bolts passing through said flange and said sockets, and nuts having convex bosses fitting in said sockets and engaging the screw threads on said bolts, substantially as described.

REISSUES.

15,092. STEAM-TURBINE. KARL BAUMANN, Urmston, England, assignor to Metropolitan-Vickers Electrical Company, Limited, a Company organized under the laws of Great Britain. Filed Jan. 20, 1921. Serial No. 438,743. Original No. 1,302,282, dated Apr. 29, 1919, Serial No. 105,409, filed June 23, 1916. 48 Claims. (Cl. 253—69.)

1. In a turbine, the combination of a plurality of successively arranged stages having the motive fluid passing

therethrough in approximately the same direction including rows of moving blades and means to increase the lead-



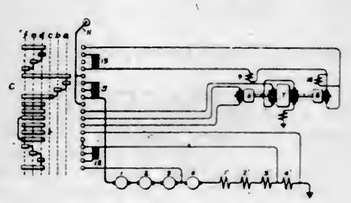
ing blade area including means to discharge steam from a plurality of said rows of moving blades directly to the exhaust.

15,093. ANGULAR-SOCKET WRENCH. GEORGE R. FULLENWIDER, Fairfield, Mont. Filed Dec. 20, 1919. Serial No. 346,378. Original No. 1,310,473, dated July 22, 1919. Serial No. 253,430, filed Sept. 10, 1918. 22 Claims. (Cl. 81—177)



13. The combination with a wrench including a rotatable member, of a socket member having a polygonal socket and an internal peripheral groove, a resilient clamping ring retained by said groove, and an implement having a complementary polygonal portion and a grooved extension to coact respectively with said socket member and clamping ring.

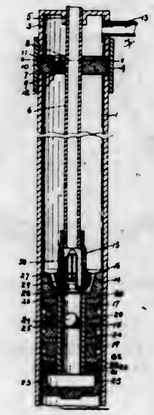
15,094. REGENERATIVE BRAKING. GEORGE H. HILL, deceased, Schenectady, N. Y., by General Electric Company, a Corporation of New York, assignee. Filed Dec. 15, 1919. Serial No. 345,031. Original No. 1,281,959, dated Oct. 15, 1918, Serial No. 120,667, filed Sept. 18, 1916. 32 Claims. (Cl. 172—179.)



3. In a system of regenerative control, the combination of a plurality of similar dynamo electric machines, one of said machines being connected to excite another so as to cause the other to deliver energy to a supply circuit, and a resistor traversed by the current delivered to the circuit for varying the value of the energy thus delivered.

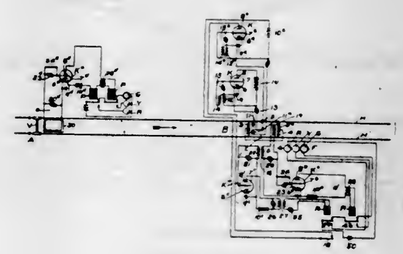
15,095. PUMP. GRANVILLE ALLISON HUMASON, Houston, Tex., assignor of one-half to William E. Langley, Houston, Tex. Filed Aug. 7, 1920. Serial No. 402,015. Original No. 1,325,565, dated Dec. 23, 1919, Serial No. 330,060, filed Oct. 11, 1919. 10 Claims. (Cl. 103—79.)

1. In a pump, a working barrel, a piston reciprocable therein, a hollow sucker rod on said piston, a valve controlled diaphragm above said piston, said piston having means to draw a flushing fluid downwardly from the sur-



face and discharge it upwardly through said sucker rod by the operation of said piston.

15,096. RAILWAY SIGNALING. LLOYD V. LEWIS, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 448,224. Original No. 1,365,329, dated Jan. 11, 1921, Serial No. 121,378, filed Sept. 21, 1916. 24 Claims. (Cl. 246—37.)



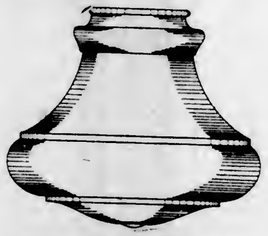
21. In combination, a section of railway track provided with a track circuit, a signal for said section, and an electron tube controlled by said track circuit for governing said signal and comprising a heated filament, a grid and a plate.

15,097. NON-SLIPPING PAVING COMPOSITION. PATRICK F. SOLAN and HERBERT STANTON BALLIET, New York, N. Y. Filed Aug. 26, 1918. Serial No. 251,577. Original No. 1,193,938, dated Aug. 8, 1916, Serial No. 14,759, filed Mar. 16, 1915. 4 Claims. (Cl. 106—25.)

1. A new composition of matter composed of hard, sharp grit, sand, cement, an abrasive and a liquid, well mixed together in substantially the proportions set forth, and allowed to set.

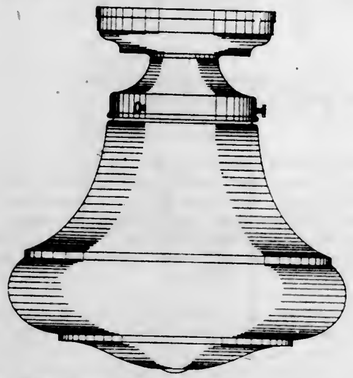
DESIGNS.

57,562. LIGHTING-FIXTURE URN. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 13, 1920. Serial No. 410,015. Term of patent 14 years.



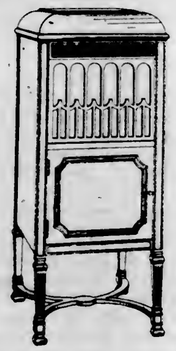
The ornamental design for a lighting-fixture urn, as shown.

57,563. LIGHTING-FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 20, 1920. Serial No. 411,676. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

57,564. PHONOGRAPH-CABINET. RAIMONDO C. AIMONE, New Rochelle, N. Y., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 18, 1920. Serial No. 431,781. Term of patent 14 years.



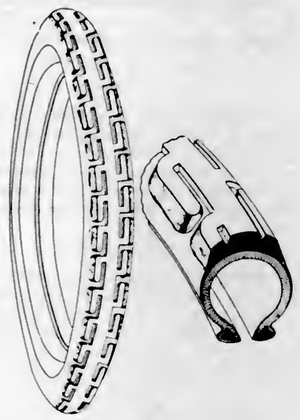
The ornamental design for a phonograph cabinet as shown.

57,565. PHONOGRAPH-CABINET. RAIMONDO C. AIMONE, New Rochelle, N. Y., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 18, 1920. Serial No. 431,782. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

57,566. ELASTIC VEHICLE-TIRE. JOHN M. ALDERFER, Akron, Ohio. Filed Sept. 18, 1919. Serial No. 324,704. Term of patent 14 years.



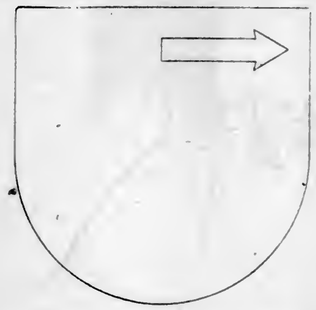
The ornamental design for an elastic vehicle tire as shown.

57,567. VACUUM-INSULATED JUG AND CASING THEREFOR. GEORGE P. ALTENBERG, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Sept. 8, 1919. Serial No. 322,587. Term of patent 14 years.



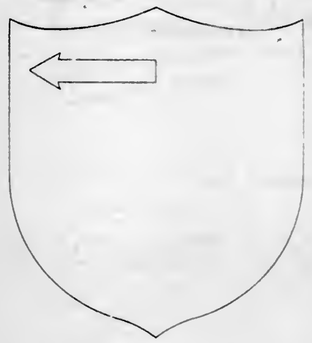
The ornamental design for a vacuum insulated jug and casing therefor, substantially as shown.

57,568. ROAD-MARKER. THOMAS C. ANGERSTEIN, Chicago, Ill. Filed Aug. 19, 1920. Serial No. 404,688. Term of patent 14 years.



The ornamental design for a road marker, as shown.

57,569. ROAD-GUIDE. THOMAS C. ANGERSTEIN, Chicago, Ill. Filed Aug. 19, 1920. Serial No. 404,689. Term of patent 7 years.



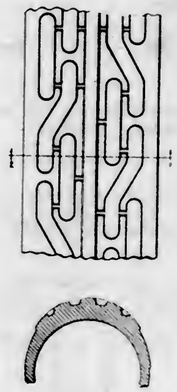
The ornamental design for a road guide, as shown.

57,570. GLASS GOBLET OR SIMILAR ARTICLE OF MANUFACTURE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Sept. 30, 1920. Serial No. 413,929. Term of patent 14 years.



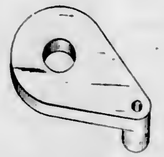
The ornamental design for a glass goblet or other similar article of manufacture, as shown.

57,571. TIRE. ARTHUR BALTHAZAR, Chicopee Falls, and MYRON R. SHAW, Springfield, Mass., assignors to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Sept. 28, 1920. Serial No. 413,412. Term of patent 14 years.



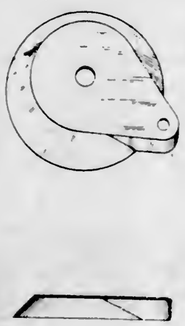
The ornamental design for a tire as shown.

57,572. MOISTURE-TANK FOR A BROODER-HEATER. MARY CHASE BARON, Hampden Meadows, R. I. Filed Aug. 26, 1920. Serial No. 406,238. Term of patent 14 years.



The ornamental design for a moisture tank for a brooder heater, as shown.

57,573. BROODER-HOOD. MARY CHASE BARON, Hampden Meadows, R. I. Filed Aug. 26, 1920. Serial No 406,239. Term of patent 14 years.



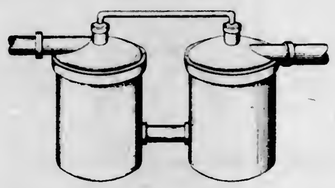
The ornamental design for a brooder hood, as shown

57,574. LIGHT ATTACHMENT FOR SOUND-REPRODUCING MACHINES. GEORGE E. BERNECKER, Milwaukee, Wis. Filed Aug. 18, 1920. Serial No. 404,429. Term of patent 14 years.



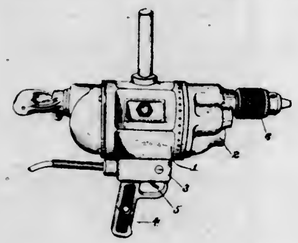
The ornamental design for a light attachment for sound reproducing machines, as shown.

57,575. SEWAGE APPARATUS. LOUIS PERKINS BERRY, Jr., Memphis, Tenn. Filed Apr. 9, 1920. Serial No. 372,677. Term of patent 14 years.



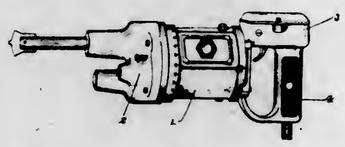
The ornamental design for sewage apparatus as shown.

57,576. PORTABLE ELECTRIC TOOL. SAMUEL DUNCAN BLACK and ALONZO G. DECKER, Towson, Md., assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Filed May 17, 1920. Serial No. 382,170. Term of patent 14 years.



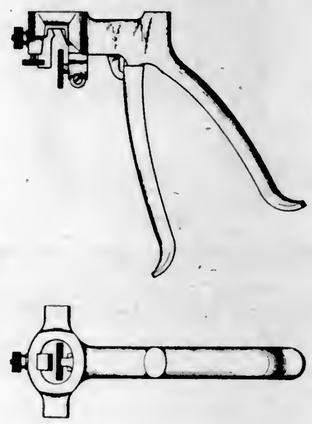
The ornamental design for a portable electric tool, substantially as shown and described.

57,577. PORTABLE ELECTRIC VALVE-GRINDER. SAMUEL DUNCAN BLACK and ALONZO G. DECKER, Towson, Md., assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Filed May 17, 1920. Serial No. 382,171. Term of patent 14 years.



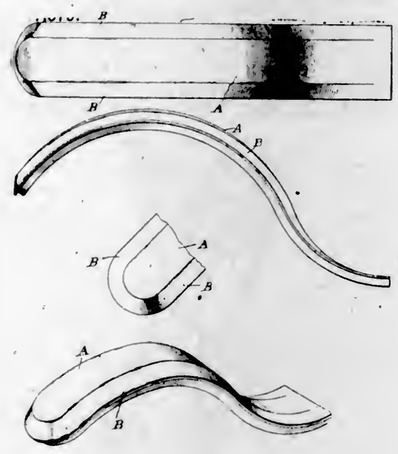
The ornamental design for a portable electric valve grinder, substantially as shown and described.

57,578. SAW-SET. CHRISTIAN BODMER, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 22, 1920. Serial No. 375,902. Term of patent 14 years.



The ornamental design for a saw set, as shown.

57,579. FENDER. FRED E. BRADFIELD, Davenport, Iowa. Filed Oct. 20, 1919. Serial No. 332,115. Term of patent 7 years.



The ornamental design for a fender substantially as shown and described.

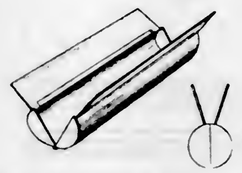
57,580. BUTTERMILK-CROCK. DAVID O. BRANT, Owensmouth, Calif. Filed June 18, 1919. Serial No. 305,185. Term of patent 7 years.



The ornamental design for a buttermilk crock as shown.

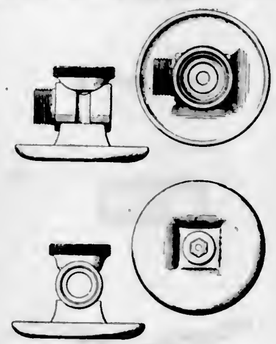
57,581. CIGARETTE-FORMING DEVICE. CHARLES S. BRANCH, Hammond, Ind. Filed Aug. 11, 1920. Serial No. 402,912. Term of patent 14 years.





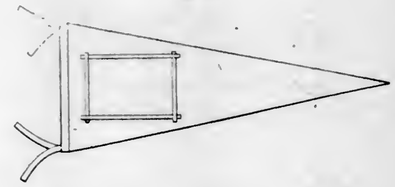
The ornamental design for a cigarette forming device as shown.

57,582. SPRINKLER-BODY. ADOLPH K. BRAUER, Los Angeles, Calif.; Serena Dorathea Brauer, executrix of said Adolph K. Brauer, deceased, assignor to Serena Dorathea Brauer, Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 291,750. Term of patent 14 years.



The ornamental design for a sprinkler body substantially as shown.

57,583. PENNANT. ELINOR C. BRIGGS, Pawhuska, Okla. Filed Oct. 8, 1917. Serial No. 195,464. Term of patent 3½ years.



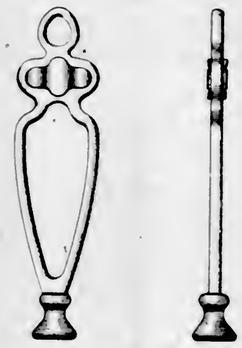
The ornamental design for a pennant, as shown.

57,584. TOOTHBRUSH. ARTHUR A. CAMPBELL, Santa Monica, Calif. Filed Mar. 17, 1919. Serial No. 283,277. Term of patent 14 years.



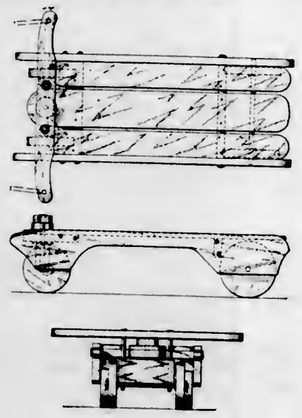
The ornamental design for a toothbrush, as shown.

57,585. LOOP FOR LIGHTING-FIXTURES. FRED E. CHAMBERS, Coldwater, Mich., assignor to Champion Brass Works, Coldwater, Mich., a Corporation of Michigan. Filed Sept. 2, 1920. Serial No. 407,811. Term of patent 3½ years.



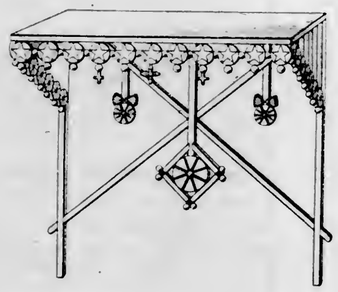
The ornamental design for a loop for lighting fixtures, as shown.

57,586. WHEELED VEHICLE. CLIFFORD C. CHURCH, Needham, Mass. Filed Aug. 19, 1920. Serial No. 404,686. Term of patent 14 years.



The ornamental design for a wheeled vehicle as shown.

57,587. SHELF. JOHN CORDES, Douglas, N. D. Filed June 26, 1920. Serial No. 392,105. Term of patent 14 years.



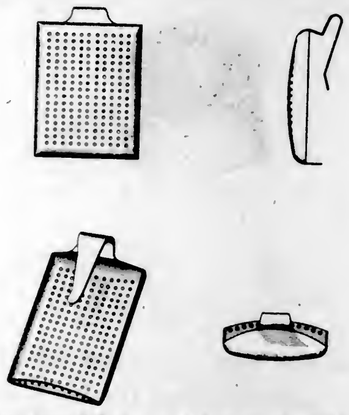
The ornamental design for a shelf as shown.

57,588. COMBINATION TUBE CONTAINER FOR FRUIT SYRUP, FLAVORING EXTRACTS, AND FRUIT ACIDS. STUART L. CRAWFORD, Rochester, N. Y. Filed Oct. 20, 1919. Serial No. 332,090. Term of patent 7 years.



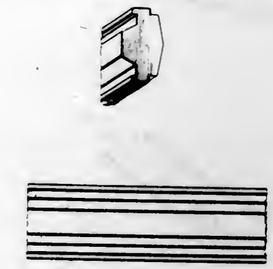
The ornamental design for a combination tube container for fruit syrup, flavoring extracts, and fruit acids, as shown.

57,589. STRAINER. LOUIS DANIELS, New York, N. Y. Filed Aug. 10, 1920. Serial No. 402,707. Term of patent 7 years.



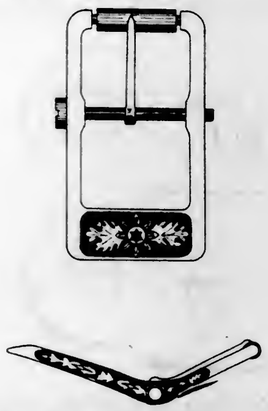
The ornamental design for a strainer, as shown.

57,590. BAR FOR HOLDING PLATE-GLASS STORE-FRONTS. GEORGE W. DAVIS, Lincoln, Nebr. Filed Nov. 3, 1919. Serial No. 335,554. Term of patent 14 years.



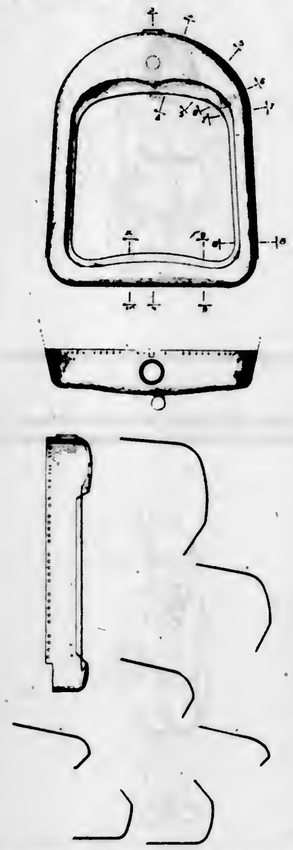
The ornamental design for a bar for holding plate glass store fronts, as shown.

57,591. REPAIR-BUCKLE. WALTER E. DEMPSEY, Craig, Nebr. Filed Sept. 13, 1920. Serial No. 410,017. Term of patent 3½ years.



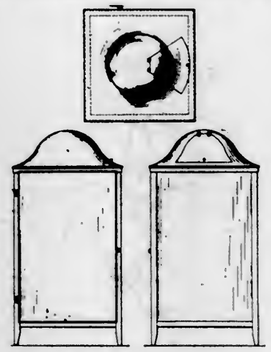
The ornamental design for a repair buckle, as shown.

57,592. AUTOMOBILE-RADIATOR SHELL OR HOOD. EDGARD C. DE SMET, St. Cloud, Minn., assignor to Pan Motor Company, St. Cloud, Minn., a Corporation of Delaware. Filed Dec. 5, 1919. Serial No. 342,855. Term of patent 7 years.



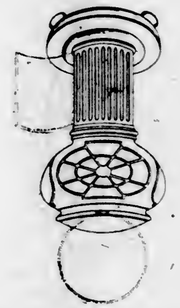
The ornamental design for an automobile radiator shell or hood, as shown and described.

57,593. CASING FOR STREET-RECEPTACLES. FRANKLIN F. DICKERMAN, Philadelphia, Pa. Filed July 10, 1920. Serial No. 395,409. Term of patent 7 years.



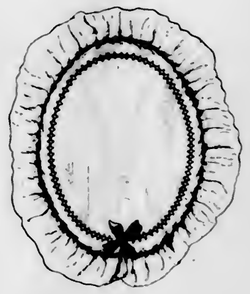
The ornamental design for a casing for street receptacles, as shown.

57,594. GRAPHOPHONE. CHARLES DITTMAR, Cincinnati, Ohio. Filed Sept. 22, 1920. Serial No. 412,104. Term of patent 3½ years.



The ornamental design for a graphophone, as shown.

57,595. HAT-LINING. ALEXANDER DOMAN, New York, N. Y., assignor of one-half to NATHAN M. ROSEN, New York, N. Y. Filed Jan. 3, 1921. Serial No. 434,814. Term of patent 14 years.



The ornamental design for a hat-lining as shown.

57,596. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,089. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,597. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,090. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,598. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,091. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,599. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,092. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,600. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,093. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,601. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,094. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,602. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,095. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,603. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,096. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,604. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,097. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,605. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,098. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,606. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,099. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,607. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,100. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,608. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,101. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,609. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,102. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,610. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,103. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,611. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,104. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,612. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,105. Term of patent 14 years.



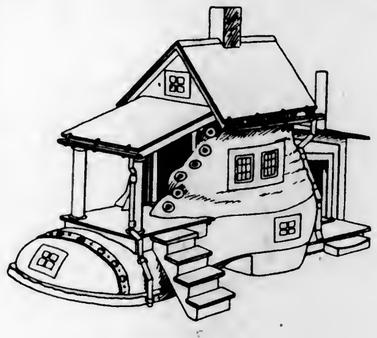
The ornamental design for a doll, as shown.

57,613. DOLL. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,106. Term of patent 14 years.



The ornamental design for a doll, as shown.

57,614. DOLL-HOUSE. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,107. Term of patent 14 years.



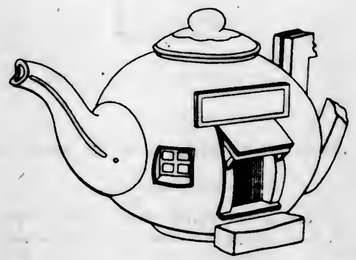
The ornamental design for a doll house, as shown.

57,615. DOLL-HOUSE. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,108. Term of patent 14 years.



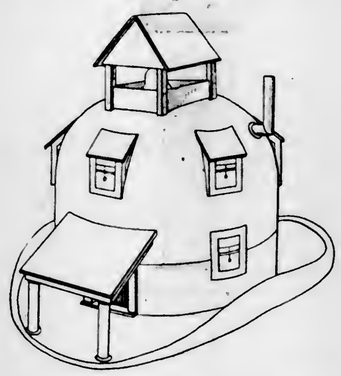
The ornamental design for a doll house, as shown.

57,616. DOLL-HOUSE. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,109. Term of patent 14 years.



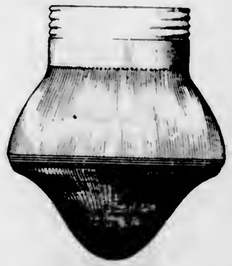
The ornamental design for a doll house, as shown.

57,617. DOLL-HOUSE. WILLIAM DONAHEY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,110. Term of patent 14 years.



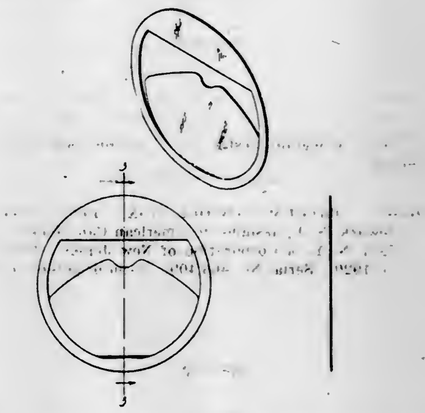
The ornamental design for a doll house, as shown.

57,618. PRISMATIC GLASS GLOBE. WILLIAM A. DORRY, Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Sept. 20, 1920. Serial No. 411,671. Term of patent 14 years.



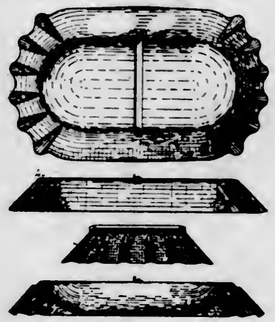
The ornamental design for a prismatic glass globe, as shown.

57,619. ANTIGLARE DEVICE FOR AUTOMOBILE-HEADLIGHTS. HERBERT R. DRURY, Willoughby, Ohio. Filed Sept. 7, 1920. Serial No. 408,792. Term of patent 7 years.



The ornamental design for an antiglare device for automobile headlights as shown.

57,620. FEED-TROUGH. ALBERT N. EATON, Omaha, Nebr. Filed Sept. 18, 1920. Serial No. 411,328. Term of patent 14 years.



The ornamental design for a feed trough, as shown.

57,621. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,408. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

57,622. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,409. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

57,623. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,410. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

57,624. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 16, 1920. Serial No. 403,959. Term of patent 14 years.



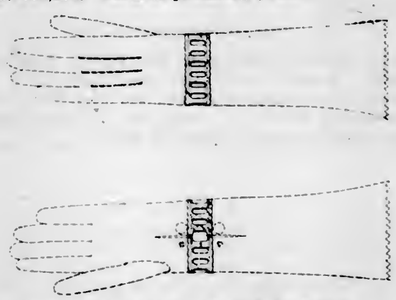
The ornamental design for a talcum powder box, as shown.

57,625. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 23, 1920. Serial No. 412,398. Term of patent 14 years.



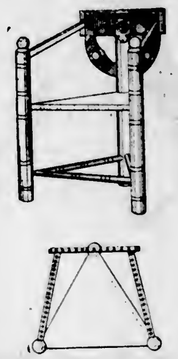
The ornamental design for a talcum powder box, as shown.

57,626. GLOVE. HARRY EISENSTEIN, New York, N. Y., assignor to The Montrose Glove, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 31, 1920. Serial No. 434,375. Term of patent 3½ years.



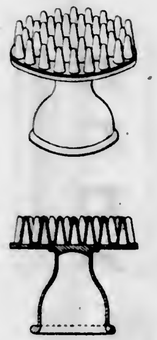
The ornamental design for a glove as shown.

57,627. CHAIR. GUSTAV A. ERIKSON, Chicago, Ill. Filed June 9, 1920. Serial No. 387,771. Term of patent 7 years.



The ornamental design for a chair as shown.

57,628. BEARD-SOFTENER. CHARLES S. FINNEY, Chicago, Ill. Filed Aug. 1, 1919. Serial No. 314,768. Term of patent 3½ years.



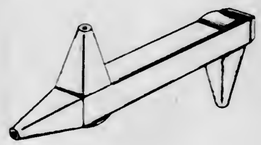
The ornamental design for a beard softener, as shown.

57,629. BUTTON. JACOB FOX, New York, N. Y., assignor to Thaltheimer Brothers, New York, N. Y., a Copartnership composed of Lena Klein and Harry Jonas, East Orange, N. J., and William J. Klein, South Orange, N. J. Filed Oct. 7, 1920. Serial No. 415,460. Term of patent 3½ years.



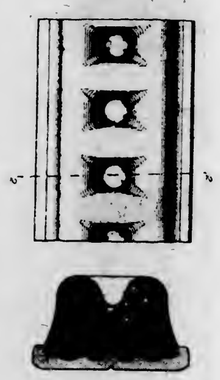
The ornamental design for a button as shown.

57,630. NAIL-SET. BENJAMIN W. FRAMPTON, Cleveland, Ohio. Filed Aug. 30, 1920. Serial No. 407,055. Term of patent 14 years.



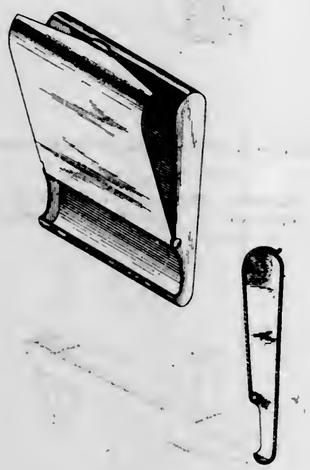
The ornamental design for a nail set, as shown.

57,631. NON-SKID TREAD FOR AUTOMOBILE-TIRES. ELUE O. FRITCH, Belmont, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed May 22, 1920. Serial No. 383,575. Term of patent 14 years.



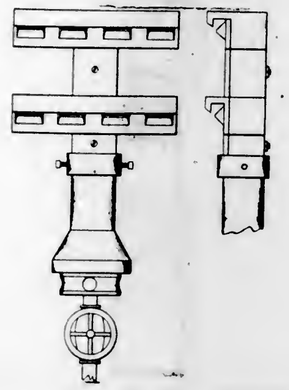
The ornamental design for a non-skid tread for automobile tires as shown.

57,632. MATCH-RECEPTACLE. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Sept. 17, 1920. Serial No. 410,993. Term of patent 14 years.



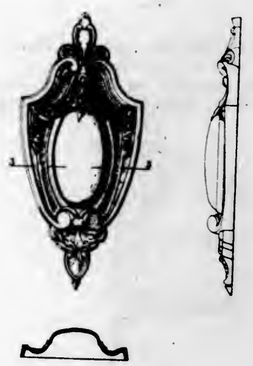
The ornamental design for a match receptacle, as shown.

57,633. GAS-BURNER FOR WATER-HEATERS. LEO V. GELDER, Oakland, Calif. Filed July 19, 1920. Serial No. 397,514. Term of patent 7 years.



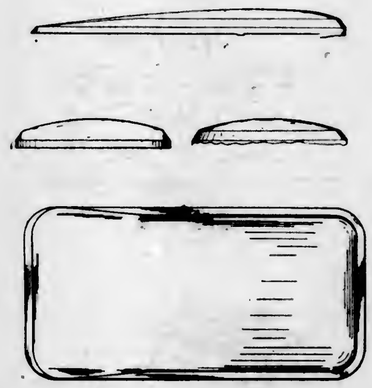
The ornamental design for a gas burner for water heaters, as shown.

57,634. WALL-PLATE FOR MOUNTING ELECTRIC ARMS. JOSEPH GIAMMARINO, New York, N. Y., assignor to Owen Walsh M'f'g. Co., New York, N. Y., a Corporation of New York. Filed Sept. 20, 1920. Serial No. 411,668. Term of patent 3½ years.



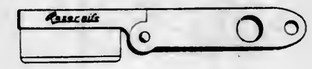
The ornamental design for a wall plate for mounting electric arms, as shown.

57,635. AUTOMOBILE-TOP. LEO GILLIG and CHESTER GILLIG, San Francisco, Calif. Filed Oct. 8, 1919. Serial No. 329,372. Term of patent 7 years.



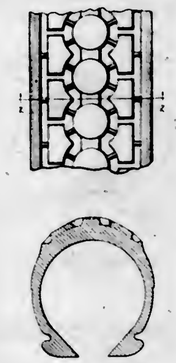
The new and ornamental design for an automobile top substantially as shown.

57,636. RAZOR-KNIFE. JULES P. GITS, Chicago, Ill. Filed Dec. 22, 1920. Serial No. 432,631. Term of patent 14 years.



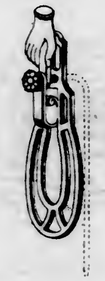
The ornamental design for a razor knife as shown.

57,637. TIRE. RICHARD P. GOURLEY, Springfield, and HAROLD P. PARTENHEIMER, Chicopee Falls, Mass., assignors to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Sept. 28, 1920. Serial No. 413,410. Term of patent 14 years.



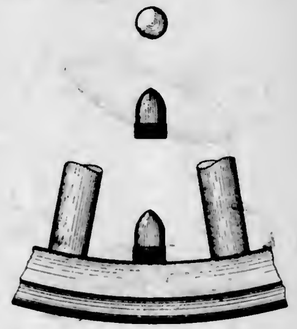
The ornamental design for a tire as shown.

57,638. SCARFPIN OR SIMILAR ARTICLE OF JEWELRY. ROBERT J. GREEN, St. Louis, Mo. Filed Oct. 30, 1920. Serial No. 420,822. Term of patent 7 years.



The ornamental design for a scarfpin or similar article of jewelry as shown.

57,639. CAP FOR AIR-VALVES. PATRICK J. GRIFFIN, Boston, Mass. Filed Feb. 4, 1921. Serial No. 442,550. Term of patent 7 years.



The ornamental design for a cap for air valve as shown.

57,640. PARKING-LIGHT FOR AUTOMOBILES. ANGUS R. GROSS, Baltimore, Md. Filed Oct. 19, 1920. Serial No. 418,110. Term of patent 14 years.



The ornamental design for a parking light for automobiles, substantially as shown.

57,641. WRISTBAND-CLASP. FREDERICK G. GRUEN, Cincinnati, Ohio, assignor to The D. Gruen Sons & Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 20, 1920. Serial No. 418,333. Term of patent 14 years.



The ornamental design for a wrist-band clasp as shown.

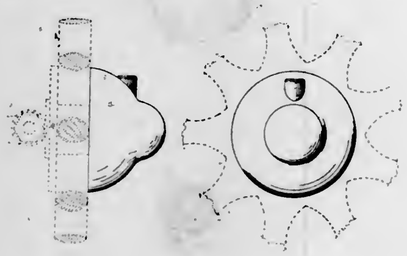
57,642. BATHING-CAP. GEORGE K. GUINZBURG, New York, N. Y., assignor to I. B. Kleinert Rubber Company, a Corporation of New York. Filed July 3, 1920. Serial No. 393,979. Term of patent 14 years.





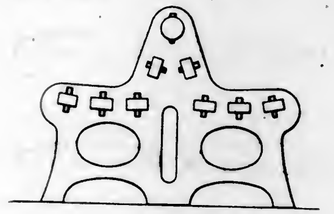
The ornamental design for a bathing cap, as shown.

57,643. AUTOMOBILE-WHEEL-HUB CAP. RAYMOND M. GUY, Winfield, Kans., assignor to Guy Auto Hub Lock Company, Winfield, Kans., a Corporation. Filed Feb. 24, 1920. Serial No. 361,006. Term of patent 7 years.



The ornamental design for an automobile wheel hub cap, as shown.

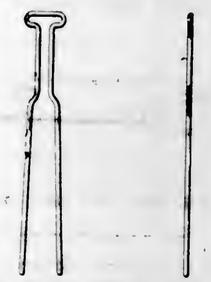
57,644. DOUBLE BENCH. LEO G. HAASE, Pasadena, Calif. Filed Oct. 13, 1919. Serial No. 330,492. Term of patent 14 years.





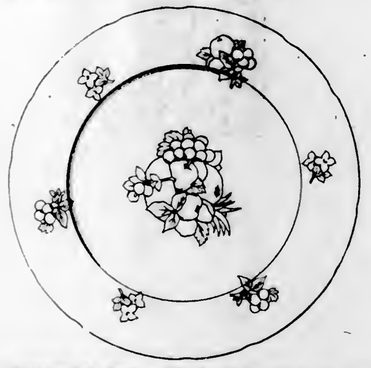
The ornamental design for a double bench as shown.

57,645. HAIRPIN. GEORGE H. HAKE, St. Louis, Mo.; Anna Hake administratrix of said George H. Hake, deceased. Filed July 29, 1918. Serial No. 247,344. Term of patent 14 years.



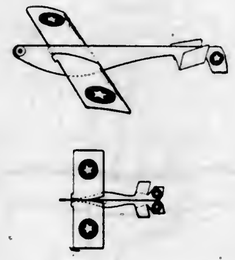
The ornamental design for a hairpin, as shown.

57,646. PLATE OR SIMILAR ARTICLE. ARNOLD FREDERICK HANCOCK, Stoke-upon-Trent, England, assignor to Edward B. Dickinson, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 29, 1920. Serial No. 413,624. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

57,647. TOY PAPER AEROPLANE. BLAINE H. HARRIS, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed June 3, 1920. Serial No. 386,362. Term of patent 7 years.



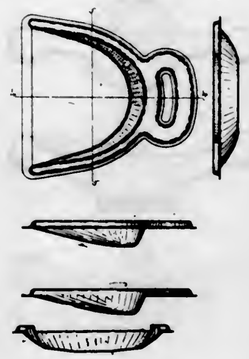
The ornamental design for a toy paper aeroplane as shown.

57,648. AUTOMOBILE TAIL OR SIGNAL LIGHT. WILLIAM HENDRY, Tacoma, Wash. Filed May 29, 1920. Serial No. 385,372. Term of patent 14 years.



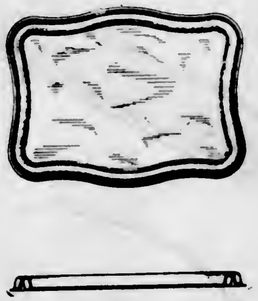
The ornamental design for an automobile tail or signal light, as shown.

57,649. SINK-SCRAPER. WILLIAM J. HINES, Hartford, Conn., assignor to The Fuller Brush Company, a Corporation of Connecticut. Filed Sept. 11, 1920. Serial No. 409,713. Term of patent 14 years.



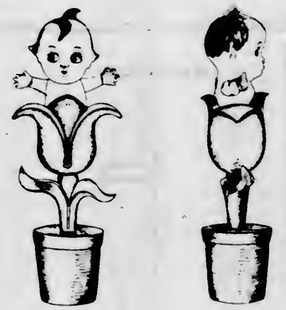
The ornamental design for a sink scraper, as shown.

57,650. TRAY. WILLIAM J. HINES, Hartford, Conn., assignor to The Fuller Brush Company, a Corporation of Connecticut. Filed Oct. 18, 1920. Serial No. 417,853. Term of patent 14 years.



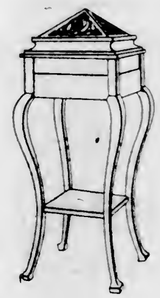
The ornamental design for a tray, as shown.

57,651. STATUETTE, SCULPTURE, OR ARTICLE OF SIMILAR NATURE. EMIL HOENIG, New York, N. Y. Filed Oct. 29, 1920. Serial No. 420,575. Term of patent 3½ years.



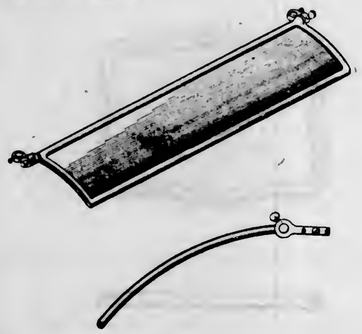
The ornamental design for a statuette, sculpture, or article of similar nature, as shown.

57,652. PHONOGRAPH-CABINET. WILLIAM B. HOLLINGSHEAD, Mount Vernon, N. Y. Filed Jan. 23, 1920. Serial No. 353,577. Term of patent 3½ years.



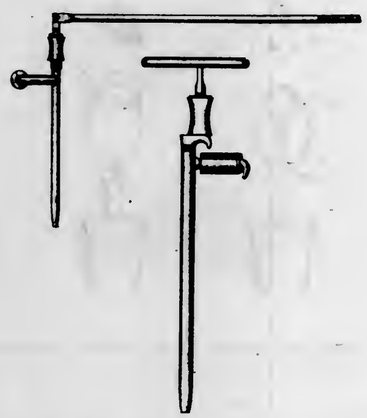
The ornamental design for a phonograph cabinet illustrated in the drawing.

57,653. SUNSHADE AND VISOR FOR VEHICLE-WINDSHIELDS. GEORGE A. HOLSBERG, San Francisco, Calif. Filed Feb. 3, 1921. Serial No. 442,298. Term of patent 3½ years.



The ornamental design for a sunshade and visor for vehicle windshields, as shown.

57,654. TIRE-PLACER. CHARLES A. HORNBURG, Waco, Tex. Filed Feb. 13, 1920. Serial No. 358,401. Term of patent 3½ years.



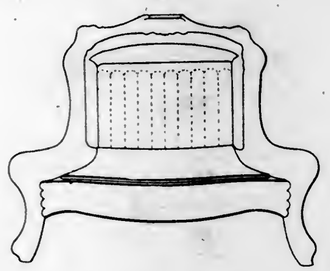
The ornamental design for a tire placer, as shown.

57,655. ATTACHMENT-PLUG RECEPTACLE. HARVEY HUBBELL, Bridgeport, Conn. Filed Oct. 14, 1920. Serial No. 417,052. Term of patent 14 years.



The ornamental design for an attachment plug receptacle, substantially as shown.

57,656. GAS-STOVE. ALFRED H. HUMPHREY, New York, N. Y. Filed Oct. 18, 1920. Serial No. 417,850. Term of patent 14 years.



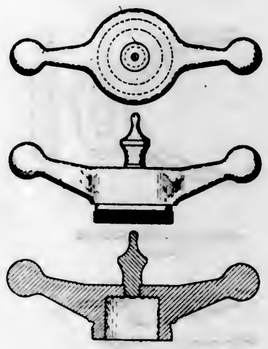
The ornamental design for a gas stove as shown.

57,657. FINGER-RING. JACOB A. JACOBS, St. Louis, Mo., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 8, 1920. Serial No. 429,291. Term of patent 14 years.



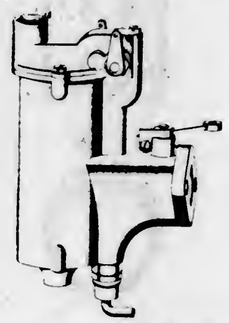
The ornamental design for a finger ring as shown.

57,658. RADIATOR-CAP. SAMUEL JAFFE, Richmond, Ind. Filed Feb. 15, 1921. Serial No. 445,264. Term of patent 14 years.



The ornamental design for a radiator cap, as shown.

57,659. CARBURETER BODY OR CASING. CHARLES E. JOHNSON, Denver, Colo., assignor of one-third to William A. Johnson and one-third to Simon Bitterman, Denver, Colo. Filed May 12, 1919. Serial No. 296,702. Term of patent 14 years.



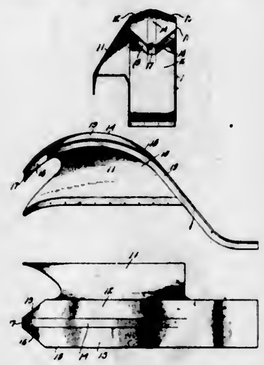
The ornamental design for a carbureter body or casing as shown.

57,660. COLLAR-HOLDER. WILLIS EUGENE KENNISON, Providence, R. I. Filed Oct. 25, 1920. Serial No. 419,541. Term of patent 14 years.



The ornamental design for a collar holder, as shown.

57,661. AUTOMOBILE-FENDER. WILLIAM A. KING, Memphis, Tenn. Filed July 9, 1920. Serial No. 395,169. Term of patent 14 years.



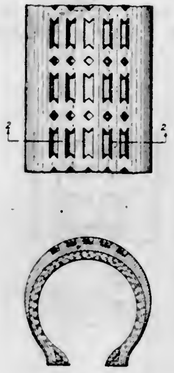
The new original and ornamental design for an automobile fender as shown and described.

57,662. COMBINATION-TOOL. RALPH ELLIS KINGSTON and FRANK W. WOODARD, Rouses Point, N. Y. Filed July 7, 1920. Serial No. 394,594. Term of patent 14 years.



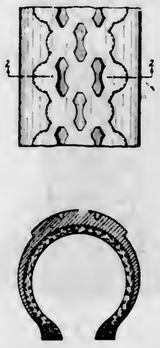
The ornamental design for a combination tool, as shown.

57,663. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,087. Term of patent 14 years.



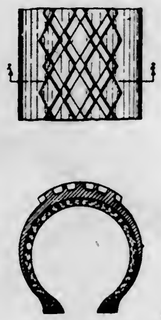
The ornamental design for a tire, as shown.

57,664. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,088. Term of patent 14 years.



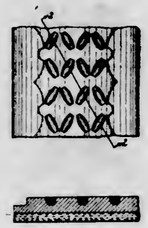
The ornamental design for a tire, as shown.

57,665. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,089. Term of patent 14 years.



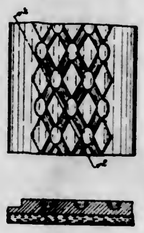
The ornamental design for a tire, as shown.

57,666. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,090. Term of patent 14 years.



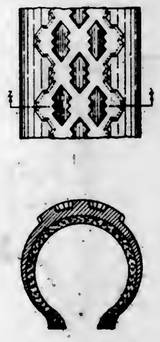
The ornamental design for a tire, as shown.

57,667. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,091. Term of patent 14 years.



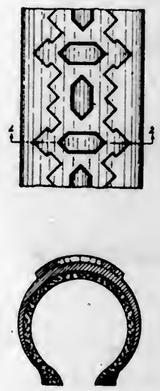
The ornamental design for a tire, as shown.

57,668. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,092. Term of patent 14 years.



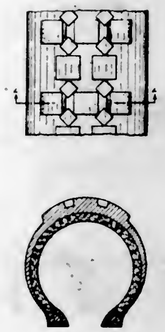
The ornamental design for a tire, as shown.

57,669. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,093. Term of patent 14 years.



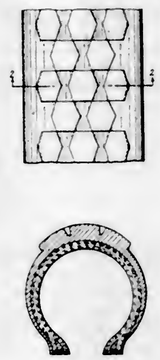
The ornamental design for a tire, as shown.

57,670. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,094. Term of patent 14 years.



The ornamental design for a tire, as shown.

57,671. TIRE. JOHN P. KIRCH, Pittsburgh, Pa. Filed June 26, 1920. Serial No. 392,095. Term of patent 14 years.



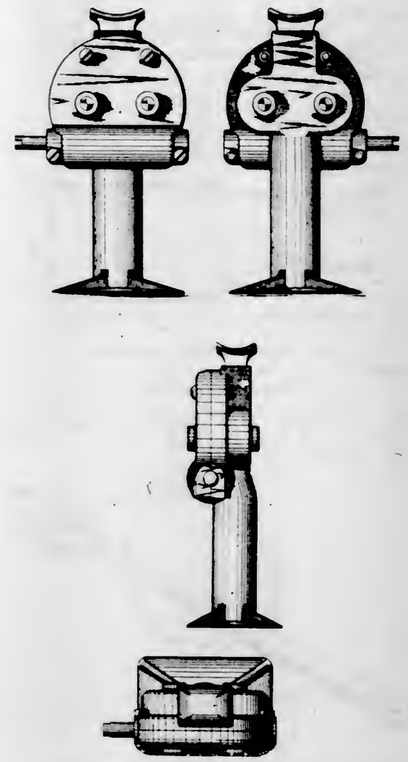
The ornamental design for a tire, as shown.

57,672. SURFACE OF A BOTTLE. ARTHUR J. KNOWLES, Chattanooga, Tenn. Filed Sept. 3, 1920. Serial No. 408,032. Term of patent 14 years.



The ornamental design for the surface of a bottle, as shown.

57,673. LIFTING-JACK. JOHN C. KOPF, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 27, 1920. Serial No. 399,409. Term of patent 14 years.



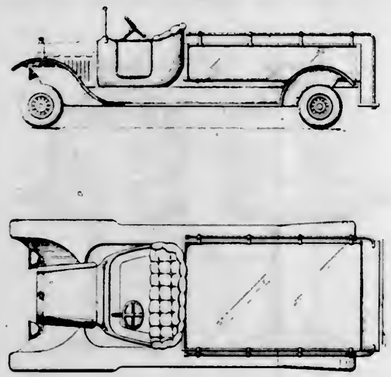
The ornamental design for a lifting jack, as shown.

57,674. ARM FOR LIGHTING-FIXTURES. STEPHEN KOSTSZEWSKI, New York, N. Y., assignor to Robert Findlay Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1920. Serial No. 410,348. Term of patent 7 years.



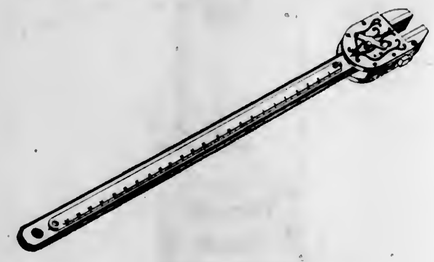
The ornamental design for an arm for lighting fixtures, as shown.

57,675. AUTOMOBILE SERVICE-CAR. MORTON T. KRESTELLER, San Francisco, Calif. Filed Nov. 22, 1920. Serial No. 425,914. Term of patent 7 years.



The ornamental design for an automobile service car, as shown.

57,676. WRENCH. JOHN KROPACZ, Calgary, Alberta, Canada. Filed Oct. 30, 1920. Serial No. 420,823. Term of patent 7 years.



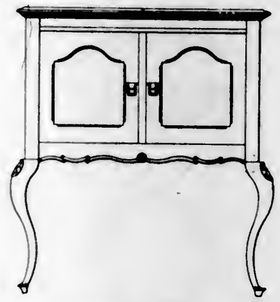
The ornamental design for a wrench, as shown.

57,677. AUTOMOBILE-RADIATOR CAP. JOHN W. LAKE, Dallas, and JAMES R. CHESNUT, Fort Worth, Tex. Filed Sept. 7, 1920. Serial No. 408,787. Term of patent 7 years.



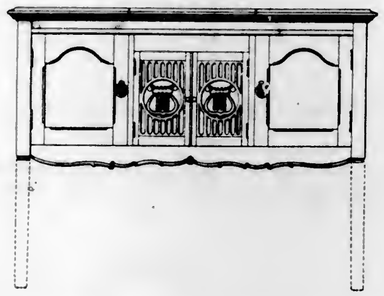
The ornamental design for an automobile radiator cap as shown.

57,678. PHONOGRAPH-CABINET OR SIMILAR ARTICLE. ARTHUR FOTY LA PIERRE, St. Louis, Mo. Filed Nov. 8, 1919. Serial No. 336,754. Term of patent 3½ years.



The ornamental design for a phonograph cabinet or similar article, as shown.

57,679. PHONOGRAPH-CABINET OR SIMILAR ARTICLE. ARTHUR FOTY LA PIERRE, St. Louis, Mo. Filed Nov. 8, 1919. Serial No. 336,755. Term of patent 3½ years.



The ornamental design for a phonograph cabinet or similar article, as shown.

57,680. CABINET-PHONOGRAPH. WALTER LANE, Holland, Mich., assignor to Bush & Lane Piano Company, a Corporation of Illinois. Filed Oct. 28, 1918. Serial No. 260,076. Term of patent 14 years.



The ornamental design for a cabinet phonograph, as shown.

57,681. WEDDING-RING. MYER H. LEBOLT, Chicago, Ill., assignor to Lebolt & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 26, 1920. Serial No. 426,653. Term of patent 14 years.



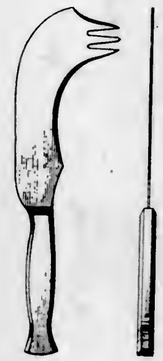
The ornamental design for a wedding ring, as shown

57,682. SHOCK-ABSORBER. OSCAR E. LEIGHTON, Allston, Mass., assignor to Ralph M. Lovejoy, Boston, Mass. Filed Dec. 15, 1920. Serial No. 430,984. Term of patent 14 years.



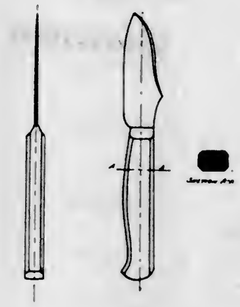
An ornamental design for a shock absorber, as shown.

57,683. COMBINATION KNIFE AND FORK. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Mar. 5, 1920. Serial No. 363,574. Term of patent 14 years.



The ornamental design for a combination knife and fork, as shown.

57,684. CANNING-KNIFE. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,964. Term of patent 14 years.



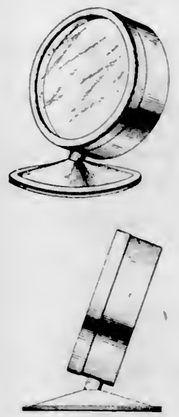
The ornamental design for a canning knife, as shown.

57,685. PUFF FOR APPLYING POWDER AND LIQUID PREPARATIONS. FREDERICK LOBL, Middleboro, Mass. Filed Sept. 29, 1920. Serial No. 413,627. Term of patent 14 years.



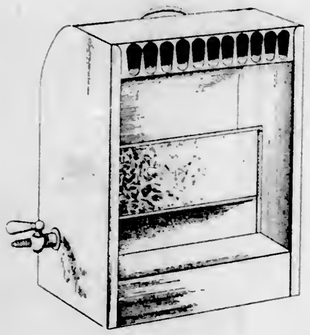
The ornamental design for a puff for applying powder and liquid preparations, as shown.

57,686. DESK-THERMOMETER. SAMUEL C. LORD, Milton, Mass., assignor to Standard Thermometer Company, Portland, Me., a Corporation of Maine. Filed Nov. 23, 1920. Serial No. 426,090. Term of patent 14 years.



The ornamental design for a desk thermometer, as shown.

57,687. PORTABLE GAS-HEATER. LEON P. LOWE, San Francisco, Calif. Filed Aug. 23, 1920. Serial No. 405,518. Term of patent 14 years.



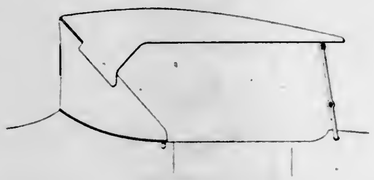
The ornamental design for a portable gas heater, as shown.

57,688. COMBINED OIL-STOVE AND LAMP-FRAME. ANTOINETTE E. K. LUKASZEWSKA, Buffalo, N. Y. Filed July 30, 1920. Serial No. 400,243. Term of patent 14 years.



The ornamental design for a combined oil stove and lamp frame, as shown.

57,689. TOP FOR MOTOR-VEHICLES. GEORGE E. MADISON, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 10, 1919. Serial No. 343,926. Term of patent 14 years.



The ornamental design for a top for motor vehicles, as shown.

57,690. ARM FOR LIGHTING-FIXTURES. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Morreau Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 20, 1920. Serial No. 411,663. Term of patent 7 years.



The ornamental design for an arm for lighting fixtures, as shown.

57,691. ARM FOR LIGHTING-FIXTURES. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Morreau Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 20, 1920. Serial No. 411,664. Term of patent 7 years



The ornamental design for an arm for lighting fixtures, as shown.

57,692. LIGHTING-FIXTURE. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Morreau Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 20, 1920. Serial No. 411,665. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

57,693. LIGHTING-FIXTURE. FREDERICK K. MAERZ, Cleveland, Ohio, assignor to The Morreau Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 20, 1920. Serial No. 411,666. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

57,694. COLLAR-HOLDER. RALPH K. MAKER and FRED S. MAKER, Providence, R. I. Filed Sept. 15, 1920. Serial No. 410,568. Term of patent 14 years.



The ornamental design for a collar holder, as shown.

57,695. BOTTLE. RUTH J. MAURER, La Crosse, Wis. Filed Apr. 2, 1920. Serial No. 370,879. Term of patent 7 years.



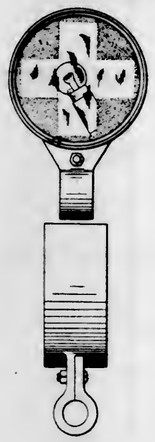
The ornamental design for a bottle, as shown.

57,696. JAR. RUTH J. MAURER, La Crosse, Wis. Filed Apr. 2, 1920. Serial No. 370,880. Term of patent 7 years.



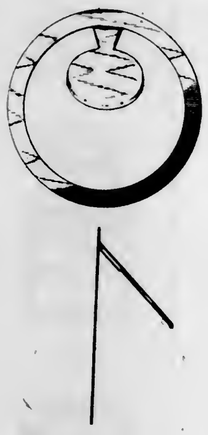
The ornamental design for a jar, as shown.

57,697. PHYSICIAN'S TRAFFIC-SIGNAL. JESSE B. MCAFEE, ELLERY D. BENTON, and MILTON K. DAVIS, Dallas, Tex. Filed Oct. 11, 1920. Serial No. 416,328. Term of patent 3½ years.



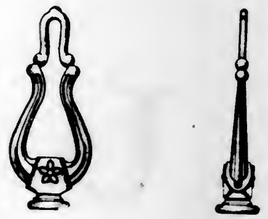
The design for a physician's traffic signal as shown.

57,698. HEADLIGHT-DIMMER. ULYSSES S. MCCORMICK, Buffalo, N. Y., assignor of one-fourth to Cyrus L. Barber, Buffalo, N. Y. Filed Oct. 25, 1920. Serial No. 419,529. Term of patent 7 years.



The ornamental design for a headlight dimmer, as shown.

57,699. LOOP FOR LIGHTING-FIXTURES. GLENN E. MCFADDEN, Lincoln, Nebr., assignor to Champion Brass Works, Coldwater, Mich., a Corporation of Michigan. Filed Sept. 2, 1920. Serial No. 407,813. Term of patent 3½ years.



The ornamental design for a loop for lighting fixtures, as shown.

57,700. DESK-STAND FOR HAND-TELEPHONES. ERNEST S. MCLARN, Glenwood Landing, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1920. Serial No. 402,908. Term of patent 14 years.



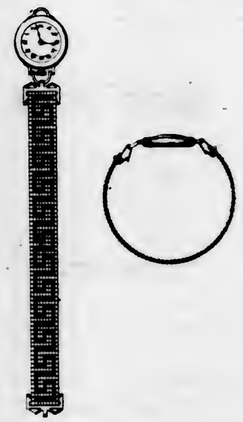
The ornamental design for a desk stand for hand telephones, as shown.

57,701. DESK-STAND FOR HAND-TELEPHONES. ERNEST S. MCLARN, Glenwood Landing, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1920. Serial No. 402,909. Term of patent 14 years.



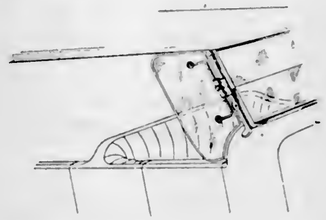
The ornamental design for a desk stand for hand telephones, as shown.

57,702. BRACELET. EDWARD H. MILLER, New York, N. Y. Filed Oct. 11, 1920. Serial No. 416,321. Term of patent 7 years.



The ornamental design for a bracelet as shown.

57,703. WINDSHIELD. JOHN A. MILLER, Los Angeles, Calif. Filed June 15, 1920. Serial No. 389,245. Term of patent 7 years.



The ornamental design for a windshield as shown.

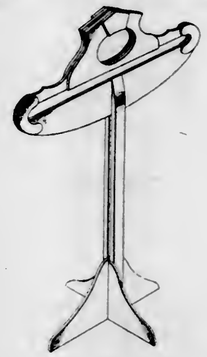
57,704. CLASS PIN OR EMBLEM. JOHN CLIFFORD MILLER, Cincinnati, Ohio. Filed June 8, 1920. Serial No. 387,466. Term of patent 14 years.





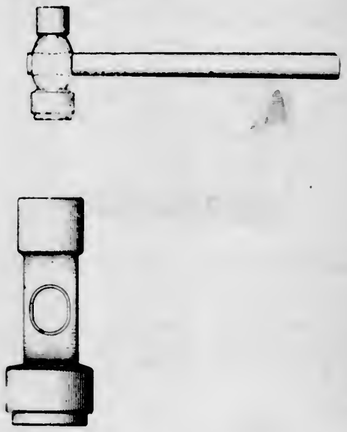
The ornamental design for a class pin or emblem, as shown and described.

57,705. DISPLAY-STAND. MORRIS MARCUS MILLS, San Antonio, Tex. Filed Oct. 11, 1920. Serial No. 416,320. Term of patent 14 years.



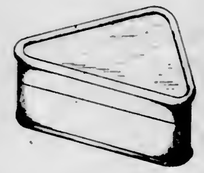
The ornamental design for a display stand as shown.

57,706. CUSHION-HAMMER. WALTER MOORHOUSE, West New York, N. J. Filed May 7, 1920. Serial No. 379,684. Term of patent 7 years.



The ornamental design for a cushion hammer, as shown.

57,707. JAR OR SIMILAR CONTAINER. JAMES C. MORRISON, Highland Park, Mich., assignor to Nyal Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 16, 1919. Serial No. 290,615. Term of patent 14 years.



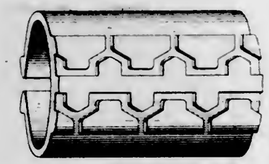
The ornamental design for a jar or similar container, substantially as shown.

57,708. AUTOMOBILE-SIGNAL. EARNEST E. MULLVAIN, Berkeley, Calif., assignor to Edward C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and Van A. Shafer, trustees for National Auto Signal Company. Filed Oct. 2, 1919. Serial No. 328,070. Term of patent 14 years.



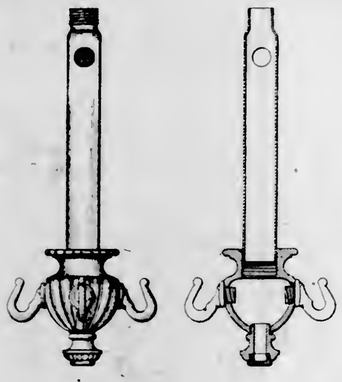
The ornamental design for an automobile signal substantially as shown.

57,709. VEHICLE-TIRE. EMIL H. NAHM, Cleveland, Ohio, assignor to The Ideal Tire and Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 16, 1920. Serial No. 403,954. Term of patent 3½ years.



The ornamental design for a vehicle tire as shown.

57,710. COMBINED CHANDELIER STEM AND DISTRIBUTER. BARNET NEWLAND, New York, N. Y. Filed May 10, 1920. Serial No. 380,425. Term of patent 7 years.



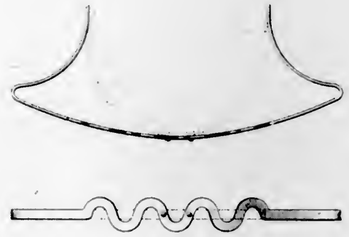
The ornamental design for a combined chandelier stem and distributer, as shown.

57,711. COLLAR-HOLDER. ALFRED J. NEWTON, Providence, R. I. Filed Oct. 18, 1920. Serial No. 417,844. Term of patent 3½ years.



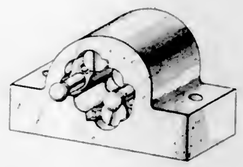
The ornamental design for a collar holder, as shown.

57,712. BUMPER-BAR. RICHARD T. NEWTON, New York, N. Y. Filed Jan. 24, 1921. Serial No. 439,700. Term of patent 14 years.



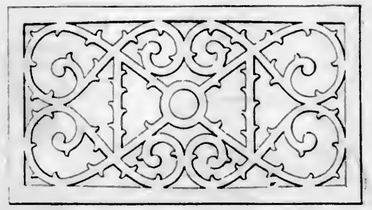
The ornamental design for a bumper bar, as shown.

57,713. PLUG-CONTACT DEVICE. WALTER E. NOURSE, Boston, Mass., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 21, 1920. Serial No. 405,203. Term of patent 14 years.



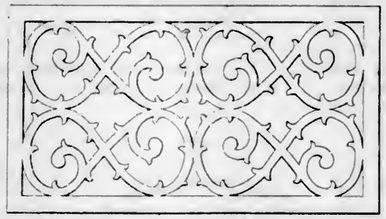
The ornamental design for a plug contact device as shown.

57,714. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Oct. 25, 1920. Serial No. 419,526. Term of patent 3½ years.



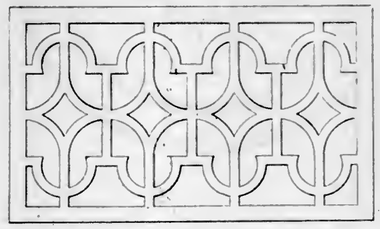
The ornamental design for a grille for talking-machines, as shown.

57,715. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Oct. 25, 1920. Serial No. 419,527. Term of patent 3½ years.



The ornamental design for a grille for talking-machines, as shown.

57,716. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Jan. 17, 1921. Serial No. 438,008. Term of patent 3½ years.



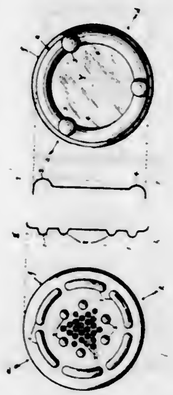
The ornamental design for a grille for talking machines, as shown.

57,717. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Jan. 17, 1921. Serial No. 438,009. Term of patent 3½ years.



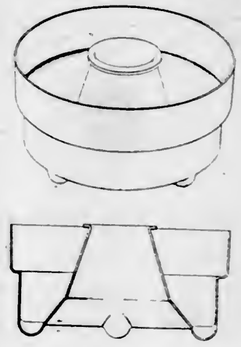
The ornamental design for a grille for talking-machines, as shown.

57,718. HOUSING FOR PHONETIC INSTRUMENTS. HERMAN G. PAPE, New York, N. Y. Filed Apr. 27, 1920. Serial No. 377,125. Term of patent 14 years.



The ornamental design for a housing for phonetic instruments as illustrated and described.

57,719. DISH OR SIMILAR RECEPTACLE. FREDERICK PFEIFFER, Sr., Brooklyn, N. Y. Filed Oct. 7, 1920. Serial No. 415,458. Term of patent 14 years.



The ornamental design for a dish or similar receptacle, substantially as shown.

57,720. SUNDAE-CUP HOLDER. HUGO PICK, Chicago, Ill., assignor to Albert Pick and Company, Chicago, Ill., a Corporation of Illinois. Filed June 28, 1919. Serial No. 307,486. Term of patent 3½ years.



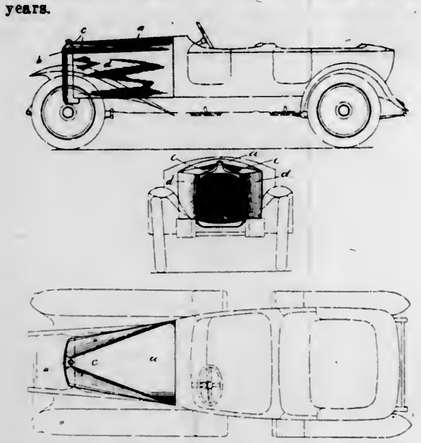
The ornamental design for a sundae cup holder, as shown.

57,721. SOFT-COLLAR FASTENER. SOLOMON PLUMMER, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 416,326. Term of patent 7 years.



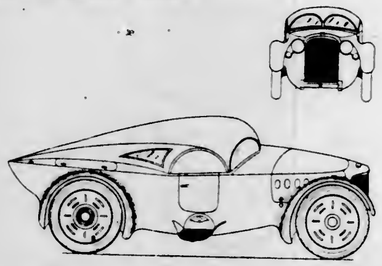
The ornamental design for a soft collar fastener, as shown.

57,722. COMBINED AUTOMOBILE HOOD AND RADIATOR. LAURENCE H. POMEROY, Cleveland, Ohio. Filed Apr. 9, 1920. Serial No. 372,680. Term of patent 14 years.



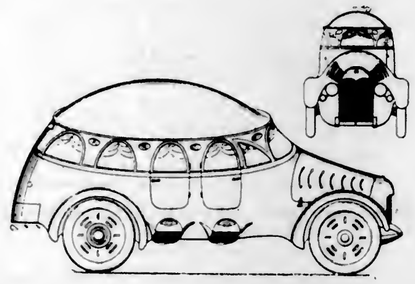
The ornamental design for a combined automobile hood and radiator, as shown.

57,723. AUTOMOBILE-BODY. ERNEST RAPATTONI, Los Angeles, Calif. Filed Aug. 23, 1920. Serial No. 405,558. Term of patent 7 years.



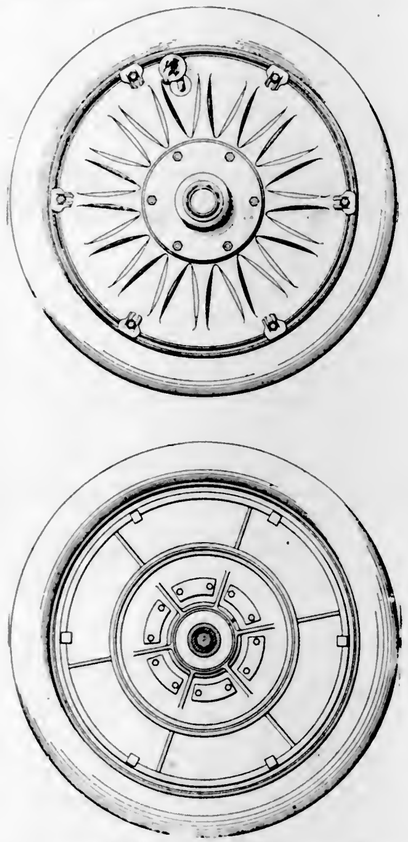
The ornamental design for an automobile body, as shown.

57,724. AUTOMOBILE-BODY. ERNEST RAPATTONI, Los Angeles, Calif. Filed Aug. 23, 1920. Serial No. 405,560. Term of patent 7 years.



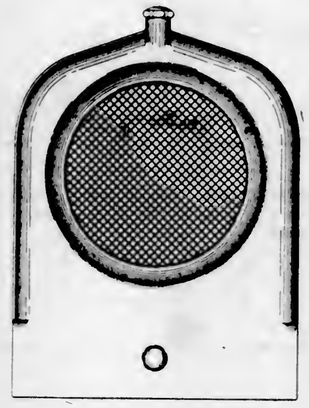
The ornamental design for an automobile body, as shown.

57,725. WHEEL. FRANÇOIS RICHARD, Cleveland, Ohio. Filed June 19, 1920. Serial No. 390,265. Term of patent 7 years.



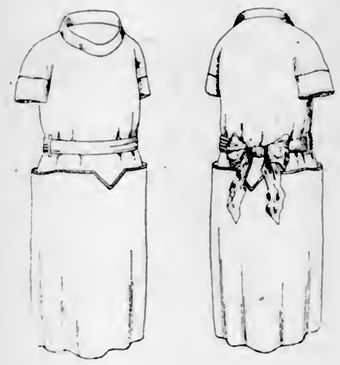
The ornamental design for a wheel as shown.

57,726. AUTOMOBILE-RADIATOR. FRANÇOIS RICHARD, Cleveland, Ohio. Filed July 24, 1920. Serial No. 398,817. Term of patent 7 years.



The ornamental design for an automobile radiator as shown.

57,727. DRESS OR FROCK. SYLVIA SUIBLEY ROBERTSON, Clear Lake, Iowa. Filed Aug. 23, 1920. Serial No. 405,514. Term of patent 14 years.



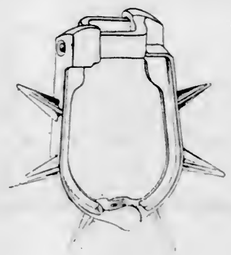
The ornamental design for a dress or frock as shown.

57,728. RING. MORRIS ROSSEIN, Brooklyn, N. Y. Filed Sept. 20, 1920. Serial No. 411,670. Term of patent 14 years.



The ornamental design for a ring, as shown.

57,729. AUTOMOBILE-WHEEL LOCK. ALBERT W. SAEGESSER, Granite City, Ill. Filed Sept. 17, 1920. Serial No. 410,994. Term of patent 14 years.



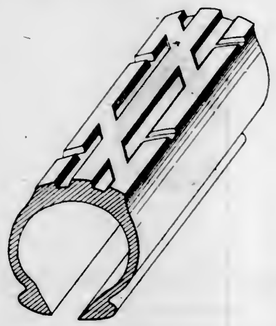
The ornamental design for an automobile wheel lock as shown.

57,730. BASKET. EUGENE SALAZAR, San Francisco, Calif. Filed Aug. 9, 1920. Serial No. 402,443. Term of patent 3½ years.



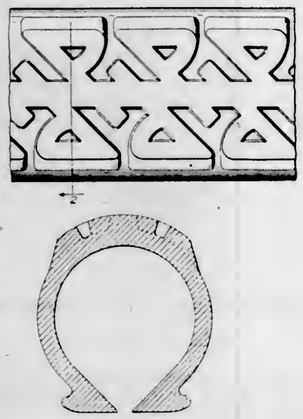
The ornamental design for a basket, as shown.

57,731. TIRE. EDWARD YOCKEY, Milwaukee, Wis. Filed Mar. 31, 1920. Serial No. 370,344. Term of patent 7 years.



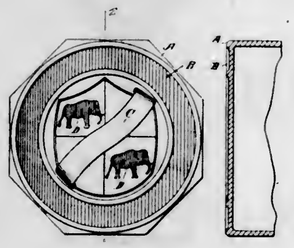
The ornamental design for a tire as shown.

57,732. ELASTIC VEHICLE-TIRE. FLOYD E. SHANNON, Akron, Ohio. Filed Jan. 2, 1920. Serial No. 349,062. Term of patent 14 years.



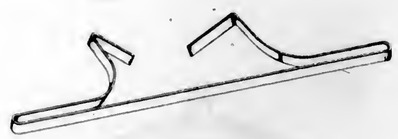
The ornamental design for an elastic vehicle tire as shown.

57,733. HUB-CAP OR SIMILAR ARTICLE. J ED SHERIFF, Mount Vernon, N. Y. Filed Aug. 5, 1920. Serial No. 401,518. Term of patent 7 years.



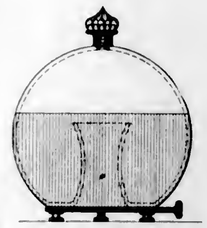
The ornamental design for hub caps or similar article, as shown.

57,734. BUMPER. JOHN W. SIMMONS, Cleveland, Ohio. Filed Oct. 8, 1920. Serial No. 415,703. Term of patent 14 years.



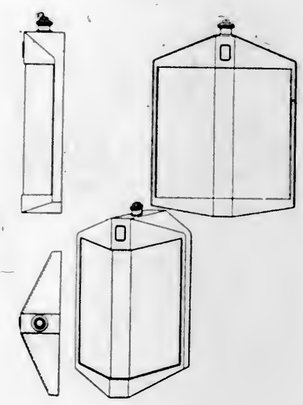
The ornamental design for a bumper as shown.

57,735. FLYCATCHER. GEORGE SINCOLE, Detroit, Mich. Filed July 13, 1920. Serial No. 396,027. Term of patent 7 years.



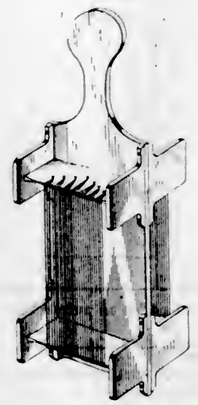
The ornamental design for a fly catcher, as shown.

57,736. AUTOMOBILE-RADIATOR. MAURICE HIPPOLYTE LOUIS SIZAIRE, Park Royal, London, England. Filed Apr. 13, 1920. Serial No. 373,559. Term of patent 14 years.



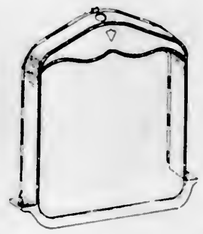
The ornamental design for an automobile radiator as shown.

57,737. COMB-CLEANING DEVICE. LOUIS SPAK, Polar, Wis. Filed June 7, 1920. Serial No. 387,193. Term of patent 7 years.



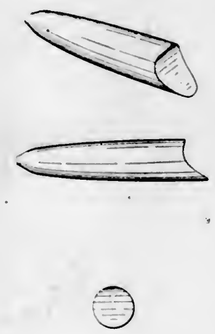
The ornamental design for a comb cleaning device, as shown.

57,738. RADIATOR-SHELL. WILLIAM SPARKS, Jackson, Mich. Filed Dec. 1, 1920. Serial No. 427,631. Term of patent 14 years.



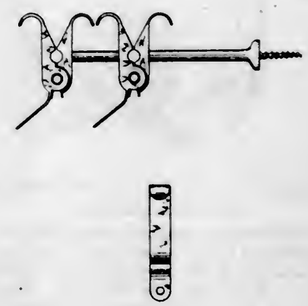
The ornamental design for a radiator shell as shown.

57,739. FISH-BAIT BODY. WILLIAM A. STOLLEY, Dowagiac, Mich. Filed Dec. 5, 1919. Serial No. 342,844. Term of patent 14 years.



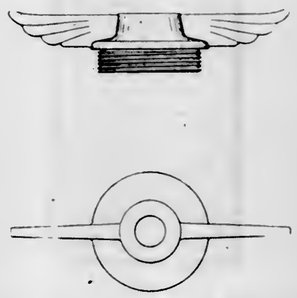
The ornamental design for a fish bait body, as shown.

57,740. CURTAIN-ROD HOLDER. LOUIS G. STRNAD, Chicago, Ill. Filed Aug. 11, 1920. Serial No. 402,907. Term of patent 7 years.



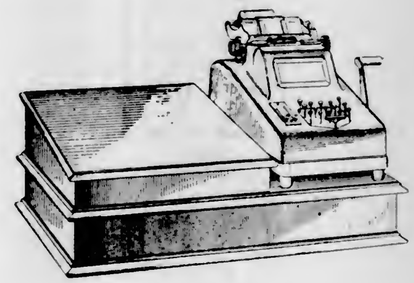
The ornamental design for a curtain rod holder as shown.

57,741. RADIATOR-CAP. HARRY C. STUTZ, Indianapolis, Ind. Filed Oct. 9, 1920. Serial No. 415,919. Term of patent 14 years.



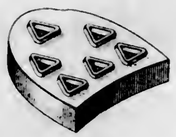
The ornamental design for a radiator cap, as shown.

57,742. CASH-REGISTER. OSCAR J. SUNDSTRAND, Rockford, Ill., assignor to Rockford Milling Machine Company, a Corporation of Illinois. Filed Dec. 11, 1920. Serial No. 430,057. Term of patent 14 years.



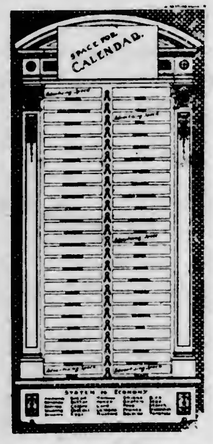
The ornamental design for a cash register, as shown.

57,743. BOOT OR SHOE HEEL. HOWARD G. SWARR, Lancaster, Pa., assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 16, 1920. Serial No. 389,504. Term of patent 14 years.



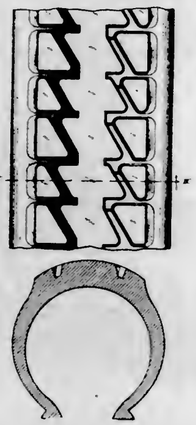
The ornamental design for a boot or shoe heel, as shown.

57,744. COMBINED KITCHEN-REMINDER AND ADVERTISING-CHART. ELMER E. SWIHART, Seattle, Wash., assignor of one-third to Louis Svarz and two-thirds to C. H. Woodis, Seattle, Wash. Filed Sept. 7, 1920. Serial No. 408,789. Term of patent 14 years.



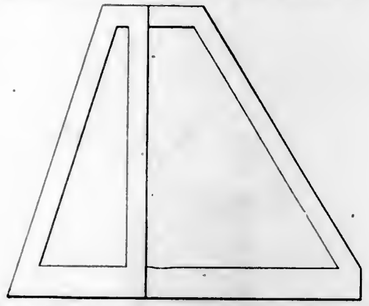
The ornamental design for a combined kitchen reminder and advertising chart, as shown.

57,745. TIRE-TREAD. ALVA C. TERRELL, Kansas City, Mo. Filed Oct. 11, 1920. Serial No. 416,322. Term of patent 14 years.



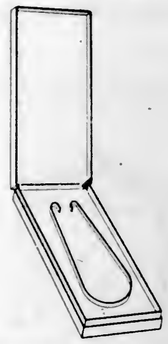
The ornamental design for a tire tread, as shown.

57,746. AUTOMOBILE SIDE CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed July 16, 1920. Serial No. 396,844. Term of patent 14 years.



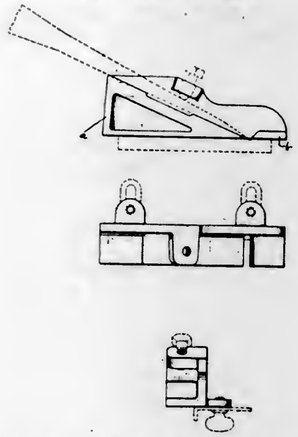
The ornamental design for an automobile side curtain, as shown.

57,747. DISPLAY-BOX FOR BEAD NECKLACES. OSCAR WM. TRILSCH, Whitestone, N. Y. Filed Mar. 20, 1919. Serial No. 283,940. Term of patent 7 years.



The ornamental design for a display box for bead necklaces, as shown.

57,748. PLANE BLOCK FOR CHISELS. ANDREW TURNBULL, New Britain, Conn. Filed June 6, 1919. Serial No. 302,357. Term of patent 3½ years.



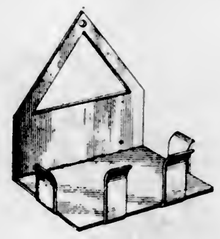
The ornamental design for a plane block for chisels as shown.

57,749. TAILOR'S SHEARS. ERIK ANDREW WACKT, Sycamore, Ill. Filed Oct. 9, 1919. Serial No. 329,618. Term of patent 7 years.



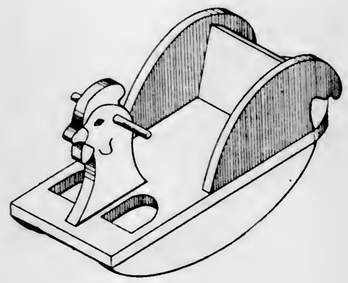
The ornamental design for tailors' shears, as shown.

57,750. MATCH-BOX HOLDER. CHARLES G. WATSON, Alma, Mich. Filed Nov. 4, 1919. Serial No. 335,744. Term of patent 3½ years.



The ornamental design for a match box holder as shown.

57,751. ROCKING-HORSE. JESSE H. WEBB, Rochester, N. Y. Filed Nov. 1, 1919. Serial No. 335,212. Term of patent 7 years.



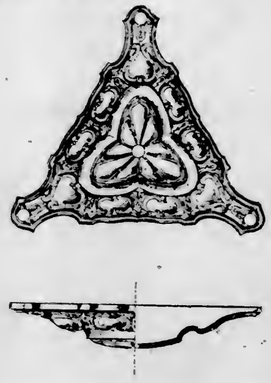
The ornamental design for a rocking horse as shown.

57,752. NAME-PLATE. GARDNER M. WEBBER, Stoneham, Mass. Filed June 22, 1918. Serial No. 241,445. Term of patent 7 years.



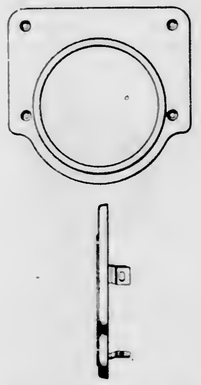
The ornamental design for a name plate, as shown.

57,753. PLATE FOR LIGHTING-FIXTURES. GOTTFRIED WESTPHAL, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 30, 1918. Serial No. 231,755. Term of patent 3½ years.



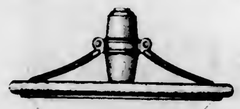
The ornamental design for a plate for lighting fixtures, as shown.

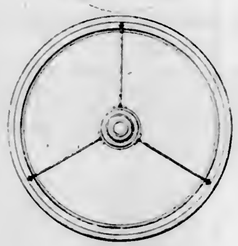
57,754. INSTRUMENT-MOUNT FOR AN AUTOMOBILE INSTRUMENT-BOARD. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 2, 1920. Serial No. 349,061. Term of patent 14 years.



The ornamental design for an instrument mount for an automobile instrument board as shown.

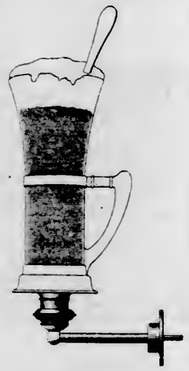
57,755. LIGHTING-FIXTURE-BOWL SUPPORT. HERMAN V. WILLMAN, Maywood, Ill. Filed Sept. 2, 1920. Serial No. 407,814. Term of patent 7 years.





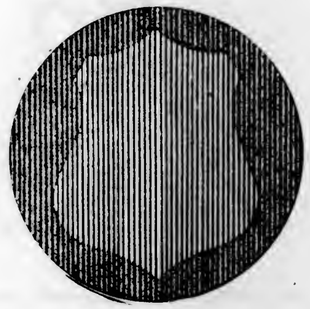
The ornamental design for a lighting fixture bowl support, as shown.

57,756. SIGN. FREDERICK W. WILSON, New York, N. Y. Filed July 1, 1920. Serial No. 393,422. Term of patent 14 years.



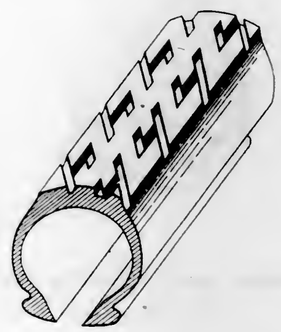
The ornamental design for a sign, as shown.

57,757. LENS FOR HEADLIGHTS. CARROL R. WOOTEN, Dallas, Tex., assignor to Daylite Lens Company, a Copartnership composed of Albert E. Doss, Carrol R. Wooten, and Eugene A. Ogletree, Dallas, Tex. Filed Dec. 22, 1919. Serial No. 346,799. Term of patent 3½ years.



The ornamental design for a lens for headlights as shown.

57,758. TIRE. EDWARD YOCKEY, Milwaukee, Wis. Filed Mar. 31, 1920. Serial No. 370,343. Term of patent 7 years.



The ornamental design for a tire as shown.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 26, 1921.

[PUBLISHED MAY 3, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 114,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAY-JUERGENS CO., Cincinnati, Ohio. Filed Dec. 26, 1918.



No exclusive claim being made to the words "Jolly Good" except in the connection shown in the drawing.

Particular description of goods.—Syrups.

Claims use since Dec. 18, 1918.

Ser. No. 118,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED KEISER, Scranton, Pa. Filed May 16, 1919.



No claim being made for the words "Healthful, Nutritious, Sweet, White, Rich, Bread, Scranton, Pa." apart from the mark shown in the drawing.

Particular description of goods.—Bread.

Claims use since 1898.

Ser. No. 121,163. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE VICTOR BREWING COMPANY, Jeannette, Pa. Filed July 31, 1919.

Victor

Particular description of goods.—Beer.

Claims use since July 1, 1908.

Ser. No. 121,420. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAN BERNARDINO CANNING CO., San Bernardino, Calif. Filed Aug. 8, 1919.

ARROW MOUNT

Particular description of goods.—Canned Vegetables—Namely, Canned Tomatoes with Purée from Trimmings—and Canned Fruits—Namely, Canned Apricots.

Claims use since May 1, 1919.

Ser. No. 123,555. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OGDEN WHOLESALE DRUG CO., Ogden, Utah. Filed Oct. 8, 1919.

CREAMINOID

Particular description of goods.—Preparations Used in the Manufacture of Ice-Cream.

Claims use since 1907.

Ser. No. 123,995. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOHN T. MCMAHON, Kansas City, Mo. Filed Oct. 20, 1919.

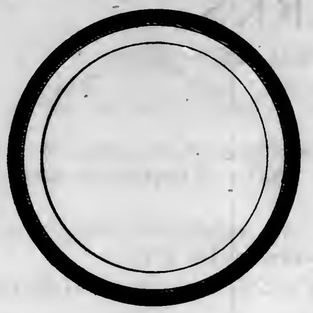


No claim being made to the representation of the tire or tubing apart from the arrangement shown on the drawing in association with the hands holding the ends of the inner tubing.

Particular description of goods.—Solid, Resilient Inner Tubing for Use in Automobile-Tires.

Claims use since May 27, 1919.

Ser. No. 126,107. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio. Filed Dec. 16, 1919.



The trade-mark consists in a black or substantially black central or peripheral band upon the outer surface of the tire-body, gray or white side walls, and an arbitrarily-placed band of red between the black and gray surfaces at one or both sides of the tire. The red band or bands are usually narrower than the black and gray areas, although the width of the red bands may vary considerably.

Particular description of goods.—Tires.

Claims use since Nov. 28, 1918.

Ser. No. 126,401. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. D. VAN CLEAVE, Joplin, Mo. Filed Dec. 23, 1919.

DID IT

Particular description of goods.—A Mouth-Wash for Use in Curing the Tobacco Habit.

Claims use since December, 1915.

Ser. No. 126,471. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. E. HYDE, Campbell, Calif. Filed Dec. 26, 1919.

SUN-TINT

The lining in the drawing is for shading purposes only.

Particular description of goods.—Canned and Preserved Fruits.

Claims use since about December, 1916.

Ser. No. 127,075. (CLASS 39. CLOTHING.) BRUMMEL & MENDELSOHN, New York, N. Y. Filed Jan. 13, 1920.



The four substantially triangular areas are lined for gold, indicating a gold coloration, and the remainder of the mark is lined for red, indicating a red coloration.

Particular description of goods.—Ladies', Men's, and Children's Hose, Ladies' and Children's Vests, Ladies' Pants; Ladies', Men's, and Boys' Knitted Union-Suits; Men's and Boys' Knitted Shirts, Men's and Boys' Knitted Drawers, Bathing-Suits.

Claims use since January, 1895.

Ser. No. 127,095. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MANTROSE CORPORATION, New York, N. Y. Filed Jan. 13, 1920.

AL-KO-LAK

Particular description of goods.—Prepared Shellac Substitute.

Claims use since July, 1919.

Ser. No. 127,136. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MALT-DIASTASE COMPANY, New York, N. Y. Filed Jan. 14, 1920.

M. D's

Particular description of goods.—Non-Alcoholic Liquid, Semiliquid, and Concentrated Malt Extracts.

Claims use since Nov. 26, 1910.

Ser. No. 127,422. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. BOSISTO & Co. PROPRIETARY LIMITED, Melbourne, Victoria, Australia. Filed Jan. 21, 1920.



Particular description of goods.—Eucalyptus-Oil.

Claims use since Jan. 1, 1870.

Ser. No. 127,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BLENDINOL CO., Worcester, Mass. Filed Jan. 22, 1920.

Blendinol

Particular description of goods.—Toilet Waters, Perfumes, Tooth-Paste, Toilet and Face Powder, Face-Creams, Toilet Lotions, Hair-Tonic, Shampoo Liquid, Rouge, Lip-Sticks.

Claims use since Nov. 1, 1919.

Ser. No. 127,687. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HILL, CLARKE & Co. OF CHICAGO, Chicago, Ill. Filed Jan. 28, 1920.



The lining expressing the color red.

Particular description of goods.—Metal-Working Machinery and Tools Consisting of Automatic Machines, Bending-Machines, Bolt and Nut Machinery, Boring-Machines, Drilling-Machines, Broaching-Machines, Buffing-Machines, Centering-Machines, Chucking-Machines, Forging-Machines, Gear-Cutting Machines, Power-Hammers, Hobbing-Machines, Hydraulic Machines, Lathes, Key-Seaters, Milling-Machines, Planers, Shapers, Pressing and Forming Machines, Rolling-Machines, Screw-Machines; Shearing, Punching, and Stamping Machines; Slotters, Tapping-Machines, Threading-Machines, Turret-Machines, and Welding-Machines, and Parts of Said Machines and Tools.

Claims use since April, 1916.

Ser. No. 127,754. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DINOU BROTHERS, Chicago, Ill. Filed Jan. 30, 1920.

Marigold Chocolates

No claim is made to the word "Chocolates" apart from the mark as shown in the drawing.

Particular description of goods.—Chocolate Candies.

Claims use since Jan. 6, 1920.

Ser. No. 127,759. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON & SONS MANUFACTURING CHEMISTS LIMITED, London, England. Filed Jan. 30, 1920.



No claim being made to the words "Trade Mark" shown on the drawing.

Particular description of goods.—Photographic Developers in Solutions, Powders, Crystals, and Tablets; Photographic Tonings in Solutions, Powders, Crystals, and Tablets; Photographic Intensifiers in Solutions, Powders, Crystals, and Tablets; Photographic Reducers in Solutions, Powders, Crystals, and Tablets; Photographic Fixing, Photographic Varnishes, Photographic Flash-Powders, Photo-Tints; Photographic Sundry Solutions—Namely, Formaldehyde Solution, Glycin Liquid, Hardener, Hypo-Killer, Restrainer, Waxing Solution, Optical Black, Plate-Backing, Spotting Medium; Photographic Chemicals—Acid, Pyrogallic; Amidol, Johnson's; Collodions; Glycin, Johnson's; Gold Chlorid, Gold Chlorid with Sodium, Hydrokinone; Metol, Johnson's; Ortol, Potassium Chloroplatinite, Silver Nitrate, Surgeons' Caustic Points, Litmus and other Test-Books.

Claims use since 1855.

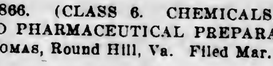
Ser. No. 128,763. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DEARBORN EQUIPMENT CO., Kalamazoo, Mich. Filed Feb. 24, 1920.

DEARBORN

Particular description of goods.—Axle-Stands, Motor-Stands, Connecting-Rod-Aligning Devices, Bench-Clamps, Piston-Vises, Bushing-Drivers, Ball-Race Tools, Transmission-Drum Clamps, Bending-Irons, Surface Plates, Lifting Devices, Straightening-Presses, Arbor-Presses, Reamers, Burning-in Machines, Running-in Machines, Wheel-Pullers, and Bench-Legs.

Claims use since Nov. 22, 1919.

Ser. No. 128,985. (CLASS 37. PAPER AND STATIONERY.) RAPHAEL SIMS, Pennsboro, W. Va. Filed Feb. 27, 1920.



Particular description of goods.—Bills of Exchange.

Claims use since Feb. 10, 1920.

Ser. No. 129,476. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & Co., Chicago, Ill. Filed Mar. 9, 1920.

DIANA



Particular description of goods.—Coats, Capes, Sets, Scarfs, Muffs, Hats, and Caps of Fur.

Claims use since Oct. 8, 1919.

Ser. No. 129,558. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO Co., New York, N. Y. Filed Mar. 11, 1920.

BLACK DOG



Particular description of goods.—Leaf-Tobacco.

Claims use since Jan. 2, 1920.

Ser. No. 129,866. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. DAVIS THOMAS, Round Hill, Va. Filed Mar. 17, 1920.

MEADOW BROOK



Particular description of goods.—A Preparation for the Elimination of Worms in Cattle.

Claims use since 1909.

Ser. No. 130,101. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE F. KEMPEN, Ardmore, Pa. Filed Mar. 23, 1920.



The lines of the drawing are not indicative of color, but are used for shading purposes only.

Particular description of goods.—Ice-Cream, Frozen Dainties, Cake, and Pastry Delicacies.

Claims use since Nov. 1, 1919.

Ser. No. 130,252. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES T. WHITTIER, New York, N. Y. Filed Mar. 26, 1920.

ROYAL

Particular description of goods.—Puddings and Pie-Fillings.

Claims use since Mar. 24, 1920.

Ser. No. 130,329. (CLASS 39. CLOTHING.) ISAACS & KUBRIN, New York, N. Y. Filed Mar. 29, 1920.

Pondbree

Particular description of goods.—Men's Suits in Two and Three Piece Garments.

Claims use since Mar. 18, 1920.

Ser. No. 130,802. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK W. CLARK, Los Angeles, Calif. Filed Apr. 8, 1920.

NODOR
SOCIETY'S FRIEND

Particular description of goods.—Foot Powder and Deodorant.

Claims use since Feb. 20, 1920.

Ser. No. 132,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & Co., Shanghai, China. Filed May 24, 1920.

TC
SC

Particular description of goods.—Dyes in the Form of Indigo Paste.

Claims use since July 1, 1919.

Ser. No. 132,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & Co., Shanghai, China. Filed May 24, 1920.



No claim being made to the words "Indigo Paste 20%" apart from the mark shown in the drawing.

Particular description of goods.—Dyes in the Form of Indigo Paste.

Claims use since July 1, 1919.

Ser. No. 132,891. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & Co., Shanghai, China. Filed May 24, 1920.



The Chinese characters appearing on the drawing being translated in English "Autumn Moon on a Still Lake."

Particular description of goods.—Dyes.

Claims use since July 1, 1919.

Ser. No. 132,892. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & Co., Shanghai, China. Filed May 24, 1920.



The Chinese characters appearing on the drawing being translated in English "The Matrimonial Ceremony of Rats."

Particular description of goods.—Dyes.

Claims use since July 1, 1919.

Ser. No. 132,893. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & Co., Shanghai, China. Filed May 24, 1920.



The Chinese characters appearing on the drawing being translated in English "Chariot of Gee Ling."

Particular description of goods.—Dyes.

Claims use since July 1, 1919.

Ser. No. 132,894. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & Co., Shanghai, China. Filed May 24, 1920.



Particular description of goods.—Dyes.

Claims use since July 1, 1919.

Ser. No. 133,560. (CLASS 15. OILS AND GREASES.) SOUTHERN OIL CORPORATION, Kansas City, Mo. Filed June 10, 1920.

DIXIE

Particular description of goods.—Gasolene and Lubricating-Oils.

Claims use since Mar. 15, 1920.

Ser. No. 134,595. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HIGLEY AND MORTENSEN, San Francisco, Calif. Filed July 6, 1920.

FRISCO

Particular description of goods.—Musical Instruments—Namely, Horns, Drums, Whistles, Mufflers, and Cymbals.

Claims use since Mar. 20, 1920.

Ser. No. 135,201. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed July 20, 1920.

Del Monte

Particular description of goods.—Grape-Juice, Pineapple-Juice, and Loganberry-Juice.

Claims use since 1914.

Ser. No. 135,629. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WILLS MANUFACTURING CO., Scranton, Pa. Filed July 30, 1920.



All wording of which label is disclaimed except the words "Tee-Vo" and "Wills Manufacturing Company."

Particular description of goods.—Bitter Stomach-Tonic.

Claims use since Mar. 24, 1920.

Ser. No. 135,722. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES HENRY JERRIM, Bromsgrove, England. Filed Aug. 2, 1920.

FIXIE

Particular description of goods.—Machine-Vises, Chucks, Bench-Vises, and Work-Holding Fixtures for Drilling, Sawing, Planing, Cutting, Milling, Turning, and Screw-Cutting Machine Tools.

Claims use since Dec. 7, 1918.

Ser. No. 135,784. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLORIA ICE CREAM COMPANY, Stockton, Calif. Filed Aug. 4, 1920.

Gloria

Particular description of goods.—Ice-Cream, Water-Ices, and Sherbets.

Claims use since Apr. 27, 1917.

Ser. No. 135,894. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH H. LEE, Elmira Heights, N. Y. Filed Aug. 7, 1920.

Indian Medicine Man



Chief Black Cloud's Medicine

No claim being made to the word "Medicine" aside from the mark shown.

Particular description of goods.—Medicine for Coughs, Bronchitis, Consumption, Colds, and Diseases of the Throat and Lungs.

Claims use since about July 1, 1910.

Ser. No. 136,009. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) TURMAC TURKISH MACEDONIAN TOBACCO COMPANY, Arnhem, Netherlands. Filed Aug. 11, 1920.



Consists of a monogram formed by the letters "T U R M A C," partially surrounded by two circles of different radii, opening where the peripheries touch.

Particular description of goods.—Cigarette-Papers and Mouthpieces for Cigarettes and Cigars Not Made of Precious Metal.

Claims use since Apr. 29, 1920.

Ser. No. 136,108. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. M. & F. WALDO, New York, N. Y. Filed Aug. 13, 1920.

KOLOYDO

Particular description of goods.—A Pigment Having a Combination of Purposes.

Claims use since Apr. 25, 1920.

Ser. No. 136,189. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DURYEA MANUFACTURING CO., Bayonne, N. J. Filed Aug. 17, 1920.



No registration rights being claimed for the words "Commercial," "Turpentine," and "Bayonne, N. J., U. S. A." apart from the mark shown in the drawing.

Particular description of goods.—Paints and Painters' Materials.

Claims use since Apr. 3, 1919.

Ser. No. 136,232. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ERBOGRAPH COMPANY, New York, N. Y. Filed Aug. 18, 1920.

ERBOGRAPH

Particular description of goods.—Photographic Machinery—viz., Printers, Polishers, Film-Splicers, and Developing-Machines; Cameras, and Motion-Picture Films.

Claims use since May 15, 1915.

Ser. No. 136,393. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BECH, VAN SICLEN & CO. INC., San Francisco, Calif. Filed Aug. 24, 1920.



Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Canned Milk, and Wheat-Flour.

Claims use since Mar. 1, 1920.

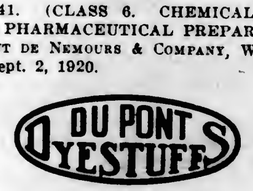
Ser. No. 136,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLOMBIA ALKOLOID CO., Houston, Tex. Filed Aug. 30, 1920.



Particular description of goods.—Quinin.

Claims use since July 23, 1919.

Ser. No. 136,741. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Sept. 2, 1920.



No claim is made to the registration of the word "Dyestuffs" as a registered trade-mark apart from the mark shown in the drawing.

Particular description of goods.—Dyestuffs.

Claims use since April, 1918.

Ser. No. 136,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN M. THAYER, Boston, Mass. Filed Sept. 7, 1920.

PARANOL

Particular description of goods.—Anilin Dyes, a Coal-Tar Product in Powder Form.

Claims use since Jan. 11, 1900.

Ser. No. 136,954. (CLASS 39. CLOTHING.) H. K. REGAR & SONS, Bridgeport, Pa. Filed Sept. 8, 1920.



No claim being made to the words "Knit" and "Hosiery."

Particular description of goods.—Men's, Women's, and Infants' Hosiery.

Claims use since June 1, 1920.

Ser. No. 136,991. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MIDGET NOVELTY CO. INC., New York, N. Y. Filed Sept. 9, 1920.

LITTLE
MARVEL

Particular description of goods.—Toy Carpet-Sweepers.

Claims use since about Aug. 20, 1920.

Ser. No. 136,992. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MIDGET NOVELTY CO. INC., New York, N. Y. Filed Sept. 9, 1920.

The Midget

Particular description of goods.—Toy Carpet-Sweepers.

Claims use since about Aug. 20, 1920.

Ser. No. 137,116. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GEORGE W. ENO RUBBER COMPANY, Los Angeles, Calif. Filed Sept. 13, 1920.

INSO

Particular description of goods.—Rubber-Coated-Fabric Inner Tires for Relining Pneumatic-Tire Casings.

Claims use since Aug. 1, 1920.

Ser. No. 137,117. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GEORGE W. ENO RUBBER COMPANY, Los Angeles, Calif. Filed Sept. 13, 1920.

EXSO

Particular description of goods.—Retreads for Attachment to the Outer Surfaces of Worn Pneumatic-Tire Casings.

Claims use since Aug. 1, 1920.

Ser. No. 137,179. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. S. PIERCE CO., Boston Mass. Filed Sept. 14, 1920.

ELIM

Particular description of goods.—Preparation to Prevent Perspiration.

Claims use since the 1st day of September, 1920.

Ser. No. 137,346. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. M. & F. WALDO, New York, N. Y. Filed Sept. 18, 1920.

PIGMENT ACCELERATOR No. 23

The words "Pigment Accelerator" being disclaimed apart from the expression "No. 23" as shown.

Particular description of goods.—A Chemical Used in the Manufacture of Rubber.

Claims use since July 20, 1920.

Ser. No. 137,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. M. & F. WALDO, New York, N. Y. Filed Sept. 18, 1920.

SAPOFOR

Particular description of goods.—A Pigment Having a Combination of Purposes.

Claims use since July 20, 1920.

Ser. No. 137,442. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Sept. 22, 1920.



Particular description of goods.—Corsets and Brassières.

Claims use since Sept. 1, 1919.

Ser. No. 137,505. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STOCK REMEDIES CO., Atlanta, Ga. Filed Sept. 22, 1920.



Particular description of goods.—A Tonic for Hogs and Chickens.

Claims use since May 15, 1920.

Ser. No. 137,541. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Sept. 23, 1920.

NOBRAC

Particular description of goods.—Chemical Carbon-Removers.

Claims use since in or about December, 1896.

Ser. No. 137,597. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Sept. 24, 1920.

CORONA

Particular description of goods.—Fibrous Gold for Filling Teeth.
Claims use since about January, 1909.

Ser. No. 137,621. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WALTER S. LORING, Plymouth, Mass. Filed Sept. 25, 1920.

KNIROL

Particular description of goods.—Parlor Game Played with a Board and Small Pieces or Men Movable Over Same.
Claims use since Sept. 21, 1920.

Ser. No. 137,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FERDINAND C. SCHUSSLER, Newark, N. J. Filed Oct. 1, 1920.



Particular description of goods.—A Liquid Preparation for Treating Gasolene, Kerosene, Benzol, Distillate, &c., for the Purpose of Producing More Power in Motors Using Above Fuels.
Claims use since Sept. 17, 1920.

Ser. No. 137,908. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. P. BABCOCK COMPANY, New York, N. Y. Filed Oct. 5, 1920.



Particular description of goods.—Talcum Powder, Face-Powder, Toilet Extract, Toilet Water, Rouge, Sachet, Bath-Salts, Tooth-Powder, and Perspiration-Powder.
Claims use since 1900.

Ser. No. 137,932. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA MARGARET GEBHARDT, Los Angeles, Calif. Filed Oct. 5, 1920.



Particular description of goods.—Ointment for the Treatment of Piles.
Claims use since about July 15, 1920.

Ser. No. 138,024. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE ANONYME PARFUMERIE SAVONNERIE GILOT, Paris, France. Filed Oct. 6, 1920.

BRISE D'ORIENT

Particular description of goods.—Perfumery, Facial Paints, Dentifrices, and Coloring-Tinctures.
Claims use since July 10, 1913.

Ser. No. 138,076. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ALFRED T. HESPE, New York, N. Y. Filed Oct. 7, 1920.

HESCO

Consists of the word "Hesco."
Particular description of goods.—Thermometers, Hydrometers, and Hygrometers.
Claims use since June 1, 1920.

Ser. No. 138,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN M. KAPPUS, Cleveland, Ohio. Filed Oct. 11, 1920.



Particular description of goods.—Laxative Tablets.
Claims use since Aug. 15, 1920.

Ser. No. 138,259. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RALPH B. MESSINGER, San Diego, Calif. Filed Oct. 13, 1920.



Particular description of goods.—Preparation Adapted to be Applied to Surfaces, Such as Show-Windows, Windshields, Spectacle-Lenses, &c., to Prevent the Deposit of Vapor or Moisture Thereon.
Claims use since July 1, 1920.

Ser. No. 138,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. JAE WARD, Lincoln, Nebr. Filed Oct. 13, 1920.



The words "Mustard Oil" as shown in the drawing are disclaimed apart from the mark shown.
Particular description of goods.—An Ointment for Rheumatism, Stiff Necks, Sore Throat, Sprains, Tonsillitis, Sore Muscles, Croup, Bruises, Lumbago, Neuralgia, Bronchitis, and other Such Ailments.
Claims use since Feb. 1, 1920.

Ser. No. 138,273. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AIR REDUCTION COMPANY, INCORPORATED, New York, N. Y. Filed Oct. 14, 1920.

AIRCO

Particular description of goods.—Oxygen, Acetylene, and Nitrogen.
Claims use since Mar. 30, 1917.

Ser. No. 138,300. (CLASS 39. CLOTHING.) THE OHIO SUSPENDER COMPANY, Mansfield, Ohio. Filed Oct. 14, 1920.

DIXIE

Particular description of goods.—Suspenders, Garters, Armbands, and Belts for Personal Wear.
Claims use since 1910.

Ser. No. 138,422. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ISAIAH C. ZACHARY, Wichita, Kans. Filed Oct. 16, 1920.

ZACHARY'S
ZIPP

Particular description of goods.—Polish for Automobile-Bodies.
Claims use since on or about Aug. 10, 1920.

Ser. No. 138,456. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. S. ROSENTHAL COMPANY, New York, N. Y. Filed Oct. 18, 1920.



Particular description of goods.—All-Silk Crepe Piece Goods.
Claims use since Sept. 1, 1920.

Ser. No. 138,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRODS (NORTH AMERICA) LTD., New York, N. Y. Filed Oct. 20, 1920.



The trade-mark consists of a globe upon which the words "Harrods Serve the World" are inscribed and surmounted by a winged female figure holding a horn of plenty. Any exclusive right of the use of the words "Serve the World" appearing on the drawing is hereby disclaimed.
Particular description of goods.—Hair-Tonic.
Claims use since Mar. 1, 1920.

Ser. No. 138,566. (CLASS 39. CLOTHING.) HARRODS (NORTH AMERICA) LTD., New York, N. Y. Filed Oct. 20, 1920.



The drawing is lined for blue. Any exclusive right of the use of the words "Harrods Ltd., Sole Makers, Brompton, Rd., London, S. W." and "Harrods Serve the World" is hereby disclaimed.
Particular description of goods.—Men's Overcoats.
Claims use since Mar. 1, 1920.

Ser. No. 138,614. (CLASS 43. FOODS AND INGREDIENTS OF FOODS.) SUSSMAN WORMSER & Co., San Francisco, Calif. Filed Oct. 20, 1920.

S and W

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Canned Clams, Canned Oysters, Olives, Fruit Marmalades, Tomato Sauce, Table-Syrup, Vinegar, Olive-Oil, Tomato Catsup, Coffee, Tea, Spices, Pickles, Honey, Almonds and Raisins, Fruit Jelly, Fruit Jam, Bird-Seed, Dried Fruits, Breakfast Cereals, and Dried Vegetables.
Claims use since 1896.

Ser. No. 138,649. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL RING TRAVELER CO., Providence, R. I. Filed Oct. 21, 1920.



Applicant disclaims exclusive right to the expression "Prov. R. I., U. S. A." apart from the mark shown in the drawing.
Particular description of goods.—Ring-Travelers.
Claims use since 1880.

Ser. No. 138,686. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NOXON CHEMICAL PRODUCTS CO., Newark, N. J. Filed Oct. 22, 1920.



The drawing is lined for green.
Particular description of goods.—Metal-Polish.
Claims use since Oct. 3, 1912.

Ser. No. 138,748. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. ELIZABETH V. W. BLAKE, Wilmington, Del. Filed Oct. 25, 1920.

OT-VAL GROVE

Particular description of goods.—Hair-Tonic, Face-Cream, Hair-Grower, Talcum Powder, Hair-Gloss, Skin-Balm, and Scalp-Balm.
Claims use since April, 1919.

Ser. No. 138,816. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH A. MURPHY, Youngstown, Ohio. Filed Oct. 26, 1920.



Any rights to the words "The Original" and "Hair" appearing on the drawing are disclaimed.
Particular description of goods.—Hair-Tonics.
Claims use since Oct. 1, 1920.

Ser. No. 138,931. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TEXAS WAGON WORKS, INC., Houston, Tex. Filed Oct. 28, 1920.

TEXAS TRAILERS
THE TEXAS WAGON WORKS HOUSTON TEXAS

The words "Houston" and "Texas" are disclaimed apart from the mark shown in the accompanying drawing. The words "Texas" and "Trailers" are disclaimed except in the form and combination shown.
Particular description of goods.—Trailers.
Claims use since about Mar. 30, 1920.

Ser. No. 138,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ABBOTT LABORATORIES, Chicago, Ill. Filed Oct. 30, 1920.

STERILAC

Particular description of goods.—Chemical Sterilizer, Deodorizer, and Cleanser.
Claims use since about Oct. 5, 1920.

Ser. No. 139,231. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES F. SULLIVAN, Camden, N. J. Filed Nov. 5, 1920.



The words "Face Powder" appearing upon the drawing are disclaimed apart from the mark as shown.
Particular description of goods.—Face-Powder.
Claims use since Aug. 15, 1920.

Ser. No. 139,232. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES F. SULLIVAN, Camden, N. J. Filed Nov. 5, 1920.



The words "Tooth Paste" appearing on the drawing are disclaimed apart from the mark as shown.
Particular description of goods.—Tooth-Paste.
Claims use since Aug. 15, 1920.

Ser. No. 139,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. S. WILLIAMS, Ellisville, Miss. Filed Nov. 6, 1920.

Comedent

Particular description of goods.—Preparation for Use in the Treatment of Pyorrhea.
Claims use since Oct. 20, 1920.

Ser. No. 139,661. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ARGUS ENTERPRISES, INC., Cleveland, Ohio. Filed Nov. 15, 1920.

ARGUS

Particular description of goods.—Screens for Use with Picture-Projecting Apparatus.
Claims use since Oct. 1, 1918.

Ser. No. 139,700. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Nov. 15, 1920.

MYGRONE

Particular description of goods.—Medicinal Tablets for Headache, Influenza, Asthma, and Acute Rheumatism.
Claims use since Sept. 1, 1920.

Ser. No. 139,710. (CLASS 39. CLOTHING.) GROSS & WEISS, INC., New York, N. Y. Filed Nov. 16, 1920.



Particular description of goods.—Waists and Blouses.
Claims use since about 1898.

Ser. No. 139,749. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NA-HOM LABORATORY, Poughkeepsie, N. Y. Filed Nov. 17, 1920.

ATHENE

Particular description of goods.—A Capsule-Contained Medicinal Preparation for the Relief of Headache, Neuralgia, Toothache, Rheumatism, Sciatica, Lumbago, Influenza, Grippe, Colds, and Kindred Ailments.
Claims use since about Nov. 1, 1918.

Ser. No. 139,753. (CLASS 39. CLOTHING.) REGATTA MANUFACTURING CO., INC., Baltimore, Md. Filed Nov. 17, 1920.

Regatta

Particular description of goods.—Woven Cotton-Fabric Underwear for Male Wear—Namely, Union-Suits, Shirts, and Drawers.
Claims use since about the month of August, 1909.

Ser. No. 139,783. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTORIA A. BIOLECK, Colorado Springs, Colo. Filed Nov. 18, 1920.



Kubah.

Particular description of goods.—Medicine for Deafness.
Claims use since about Aug. 8, 1920.

Ser. No. 139,794. (CLASS 39. CLOTHING.) FRENCH AMERICAN IMPORT CO., Boston, Mass. Filed Nov. 18, 1920.

"FRENCH AMERICAN"



Particular description of goods.—Hand-Embroidered Underwear.
Claims use since Jan. 1, 1910.

Ser. No. 139,814. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTON, ROGERS & HUNTER, INC., Seattle, Wash. Filed Nov. 18, 1920.

HAIRBAK

Particular description of goods.—Hair Restorer, Shampoo, and Tonic.
Claims use since Oct. 16, 1920.

Ser. No. 139,816. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARK DRUG COMPANY, New York, N. Y. Filed Nov. 18, 1920.

VENIDA

Particular description of goods.—Cold-Creams, Peroxid Creams, Honey and Almond Creams, Face-Powders, Perfumes, and Tooth-Pastes.
Claims use since Nov. 2, 1920.

Ser. No. 139,865. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MADAME STELLA MCALLISTER, Philadelphia, Pa. Filed Nov. 19, 1920.

Lightning

Particular description of goods.—Preparation for Stimulating the Growth of Hair.
Claims use since Sept. 8, 1920.

Ser. No. 139,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE HARRIS, Calgary, Alberta, Canada. Filed Nov. 20, 1920.



The picture being that of the applicant, George Harris.
Particular description of goods.—A Liquid Medicinal Preparation Made from Herbs for the Treatment of Coughs, Asthma, Bronchitis, and All Pulmonary Troubles and a Liquid Medicinal Preparation Made from Herbs for the Treatment of Rheumatism, Sciatica, Lumbago, Constipation, Asthma, Catarrh, Stomach Troubles, Heart Troubles, Lung Trouble, Nervousness, Neuritis, Arthritis, Fevers, Skin Diseases, Boils, Piles, Children's Troubles.
Claims use since Sept. 8, 1920.

Ser. No. 139,903. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOCO PETROLEUM COMPANY, New York, N. Y. Filed Nov. 20, 1920.



Particular description of goods.—Petroleum Jelly.
Claims use since November, 1919.

Ser. No. 139,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUTHFAR RAHMAN, Chicago, Ill. Filed Nov. 20, 1920.

RAHMAN'S HINDU BEAUTY

Particular description of goods.—A Hair-Dressing.
Claims use since Oct. 1, 1917.

Ser. No. 139,972. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK C. IRISH, New York, N. Y. Filed Nov. 22, 1920.



Particular description of goods.—Nail-Polish.
Claims use since Sept. 1, 1912.

Ser. No. 139,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL HEINRICH WEBER, Calumet, Okla. Filed Nov. 22, 1920.



Particular description of goods.—Poultry Medicine for Blind Staggers, Limberneck, and Catalepsy or Sleeping-Sickness.
Claims use since Sept. 17, 1919.

Ser. No. 140,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. P. BABCOCK COMPANY, New York, N. Y. Filed Nov. 23, 1920.

ROMANCE

Particular description of goods.—Talcum-Powder.
Claims use since Nov. 5, 1920.

Ser. No. 140,033. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM D. HOLLAND, Chicago, Ill. Filed Nov. 23, 1920.

HOLLANDS STOP-A-KOL

Particular description of goods.—A Medicinal Preparation Used as a Remedy for Coughs and Colds.
Claims use since Oct. 30, 1920.

Ser. No. 140,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DRUGGISTS WHOLESALE SUPPLY CORPORATION, San Francisco, Calif. Filed Nov. 24, 1920.

Payko

Particular description of goods.—Tincture Rhubarb, Aromatic; Tincture Cinnamon, Spirits Lavender, Spirits Spearmint; Spirits Ammonia, Aromatic; Spirits Cardamom, Comp.; Spirits Juniper, Spirits Peppermint; Spirits Orange, Compound; Sweet Spirits Niter, Tincture Rhubarb, Spirits Camphor; Spirits Vanillin, Compound; Spirit Ammonia, Anisated; Tincture Vanilla, Tincture Sweet-Orange Peel, Essence Ginger, Wine of Pepsin, Malt Concentrate, Terpin Hydrate, for Medicinal Purposes.
Claims use since Sept. 1, 1920.

Ser. No. 140,147. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN MIGUEL MEDICINE CO., Los Angeles, Calif. Filed Nov. 24, 1920.

"MEXIFICO"

Particular description of goods.—Blood-Purifier.
Claims use since July 17, 1920.

Ser. No. 140,279. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

MARINE

Particular description of goods.—Cotton Duck in the Piece.
Claims use since 1918.

Ser. No. 140,321. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

LEADER

Particular description of goods.—Bedspreads.
Claims use since 1901.

Ser. No. 140,427. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOWEN PRODUCTS CORPORATION, Auburn, N. Y. Filed Nov. 30, 1920.



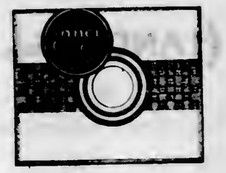
Particular description of goods.—Oiling Devices—Namely, Oil-Cups and Grease-Cups.
Claims use since June, 1908.

Ser. No. 140,542. (CLASS 39. CLOTHING.) THE QUEEN CITY TURN SHOE COMPANY, Cincinnati, Ohio. Filed Dec. 2, 1920.

INCY OMFORTS

Particular description of goods.—Shoes Made of Leather, Rubber, Fabric, and Combinations of Such Materials.
Claims use since Nov. 29, 1920.

Ser. No. 140,653. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) INNER CIRCLE CORPORATION, Baltimore, Md., and New York, N. Y. Filed Dec. 6, 1920.



It consists of an outer circle of red, with a smaller circle of red within, the space within the smaller circle being cut out, leaving a hole, through which the contents of a bottle may be seen when the label on which the trade mark is printed, is affixed to the bottle. To the left and partially above the first outer and inner circle, but partially superimposed thereon, is a second outer circle of blue, with a smaller circle of yellow within it, the space within the inner circle being solid blue, with the words "Inner Circle" printed thereon. To both left and right of the first outer and inner circle is a series of small squares arranged in checkerboard design, alternating blue and yellow.
Particular description of goods.—Malt Beverage.
Claims use since Oct. 1, 1920.

Ser. No. 140,674. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Dec. 6, 1920.

TRU-ARCH

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.
Claims use since Mar. 16, 1920.

Ser. No. 140,675. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Dec. 6, 1920.

ARCH DEVELOPER

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.
Claims use since Apr. 29, 1920.

Ser. No. 140,676. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Dec. 6, 1920.

ARCH COMBINATION

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.
Claims use since Apr. 23, 1920.

Ser. No. 140,696. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) TRAUB MANUFACTURING COMPANY, Detroit, Mich. Filed Dec. 6, 1920.

ORANGE BLOSSOM

Particular description of goods.—Finger-Rings.
Claims use since September, 1915.

Ser. No. 140,730. (CLASS 39. CLOTHING.) THE KNOBB-SCHLAUDT WHOLESALE CO., Hutchinson, Kans. Filed Dec. 7, 1920.

HANDY-ALL

Particular description of goods. — Workingmen's Clothes—Namely, Overalls, Jumpers, Coats, Trousers, and Shirts.
Claims use since Sept. 1, 1920.

Ser. No. 140,932. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ECONOMY HOIST AND BODY COMPANY, New York, N. Y. Filed Dec. 11, 1920.

ECONOMY

Particular description of goods.—Automobile-Bodies.
Claims use since Jan. 1, 1919.

Ser. No. 140,953. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed Dec. 11, 1920.



KNOT-A-KNIT

Particular description of goods.—Ladies' and Misses' Silk Shirtwaists, Suits, Skirts and Dresses, Petticoats, Nightgowns, and Underwear Made of Textile Fabrics—Namely, Drawers, Union-Suits, Bloomers, Corset-Covers, Chemises, Brassières, and Bodices.
Claims use since August, 1920.

Ser. No. 140,989. (CLASS 37. PAPER AND STATIONERY.) CURWIN'S ACCOUNTANCY CO., South Bend, Ind. Filed Dec. 13, 1920.



No claim is made to the exclusive use of the words "Curwin's" and "Trade Mark" apart from mark shown in the drawing.
Particular description of goods.—Accounting-Forms.
Claims use since Dec. 1, 1920.

Ser. No. 140,994. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GREEN MOUNTAIN VIOLIN Corporation, Stowe, Vt. Filed Dec. 13, 1920.

Artcraft

Particular description of goods.—Violins.
Claims use since June 1, 1920.

Ser. No. 141,036. (CLASS 39. CLOTHING.) ROBINSON STRAUS & CO., St. Paul, Minn. Filed Dec. 13, 1920. Under ten-year proviso.

Monogram

Particular description of goods.—Hats for Women, Misses, and Children, and Hat-Frames.
Claims use since Jan. 1, 1884.

Ser. No. 141,037. (CLASS 39. CLOTHING.) ROBINSON STRAUS & CO., St. Paul, Minn. Filed Dec. 13, 1920. Under ten-year proviso.



Particular description of goods.—Hats for Women, Misses, and Children, and Hat-Frames.
Claims use since about Jan. 1, 1884.

Ser. No. 141,070. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KIBBE BROTHERS COMPANY, Springfield, Mass. Filed Dec. 14, 1920.

WHIRLS

Particular description of goods.—Candy.
Claims use since Oct. 2, 1912.

Ser. No. 141,135. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. T. SLOCOMB CO., Providence, R. I. Filed Dec. 15, 1920. Under ten-year proviso.

SLOCOMB

Particular description of goods.—Micrometer-Calipers.
Claims use since 1891.

Ser. No. 141,235. (CLASS 39. CLOTHING.) MAASS & KEMPER, INCORPORATED, Baltimore, Md. Filed Dec. 17, 1920.

MERSER MAASS & KEMPER

Particular description of goods.—Baby-Bibs and Baby-Yokes, Girdles and Belts; Ladies' Neckwear—Namely, Collars, Ties, Windsor Ties, Middy-Ties; Children's, Misses' and Ladies' Underwear of Silk, Cotton, or Silk and Cotton Fabrics; Brassières, Camisoles, Nightgowns, and Bloomers; Boudoir-Caps, and Head-Scarfs of Wool, Silk, Silk and Wool, Cotton and Wool, and Artificial Silk.
Claims use since Oct. 22, 1920.

Ser. No. 141,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN KOTSOVETES, Indianapolis, Ind. Filed Dec. 20, 1920.



Particular description of goods.—Candy and Chocolate-Bars.
Claims use since Dec. 1, 1920.

Ser. No. 141,338. (CLASS 43. THREAD AND YARN.) TYNAN THROWING CO., Paterson, N. J. Filed Dec. 20, 1920.

SUPERORGANZINE

Particular description of goods.—Thrown Silk.
Claims use since Nov. 3, 1920.

Ser. No. 141,365. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Dec. 21, 1920.

BeauMonde

Particular description of goods.—Silk Goods in the Piece.
Claims use since August, 1920.

Ser. No. 141,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE F. S. AINSA COMPANY, INC., El Paso, Tex. Filed Dec. 24, 1920.

PRINCE ALBERT



The picture in the drawing being fanciful.
Particular description of goods.—Coffee.
Claims use since Aug. 6, 1920.

Ser. No. 141,500. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Dec. 24, 1920.

MINORA

Particular description of goods.—Biscuit.
Claims use since as early as Dec. 17, 1920.

Ser. No. 141,519. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Dec. 27, 1920.



Particular description of goods.—A Cleaning and Scouring Preparation in Finely-Divided Form for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, Culinary and Like Articles.
Claims use since February, 1908.

Ser. No. 141,545. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BREYER ICE CREAM COMPANY, Philadelphia, Pa. Filed Dec. 27, 1920.

Chock-o-nut

Particular description of goods.—Ice-Cream.
Claims use since Oct. 25, 1920.

Ser. No. 141,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. M. SPENCER SONS CO., Cincinnati, Ohio. Filed Dec. 28, 1920.

Bess

Particular description of goods.—Jellies, Fruit Preserves, Jams, and Sweet Pickles.
Claims use since Sept. 3, 1914.

Ser. No. 141,669. (CLASS 39. CLOTHING.) THE DUTTENHOFER-STEVENS CO., Cincinnati, Ohio. Filed Dec. 30, 1920.

VAL'S FUTKORSET

Particular description of goods.—Women's High and Low Shoes of Leather and Cloth.
Claims use since Aug. 5, 1920.

Ser. No. 141,692. (CLASS 39. CLOTHING.) CHARLES E. SHEDAKER & SONS, Philadelphia, Pa. Filed Dec. 30, 1920.

MERCER

Particular description of goods.—Men's One and Two Piece Athletic Underwear.
Claims use since Feb. 10, 1919.

Ser. No. 141,772. (CLASS 39. CLOTHING.) THE FAMOUS, Braddock, Pa. Filed Jan. 3, 1921.

La Verne

Particular description of goods.—Corsets, Brassières, and Ladies' and Misses' Undergarments.
Claims use since Jan. 1, 1908.

Ser. No. 141,779. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HURTY-PECK & COMPANY, Indianapolis, Ind. Filed Jan. 3, 1921.

Grape Whip

The word "Grape" is hereby disclaimed apart from the mark as shown.
Particular description of goods.—A Non-Alcoholic, Malt-less Beverage Sold as a Soft Drink and Syrup for Manufacturing Said Beverage.
Claims use since February, 1908.

Ser. No. 141,817. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WADE H. WESTMORELAND, Indianapolis, Ind. Filed Jan. 3, 1921.

YAP

Particular description of goods.—Cleaning and Washing Powder.
Claims use since Dec. 1, 1920.

Ser. No. 141,818. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WADE H. WESTMORELAND, Indianapolis, Ind. Filed Jan. 3, 1921.



Particular description of goods.—Cleaning and Washing Powder.
Claims use since Dec. 1, 1920.

Ser. No. 141,839. (CLASS 39. CLOTHING.) JUNGMANN-LANDECKER GARMENT CO., St. Louis, Mo. Filed Jan. 4, 1921.

RITFIT

Particular description of goods.—Girls', Misses', and Ladies' Dresses, Middy-Blouses, Skirts, and Bloomers.
Claims use since Oct. 11, 1920.

Ser. No. 141,846. (CLASS 39. CLOTHING.) A. V. VICTORIUS & COMPANY INC., New York, N. Y. Filed Jan. 4, 1921.

HARDI-HOSE

No claim being made to the word "Hose" apart from the mark shown.
Particular description of goods.—Knitted, Netted, and Textile Fabrics.
Claims use since Nov. 4, 1920.

Ser. No. 141,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRA WHITE, Schenectady, N. Y. Filed Jan. 4, 1921.



Particular description of goods.—A Medicine for Scours.
Claims use since Nov. 1, 1919.

Ser. No. 141,853. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Jan. 5, 1921.

FRECKLES

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Dec. 21, 1920.

Ser. No. 141,854. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Jan. 5, 1921.

Twinkle Toes

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Dec. 21, 1920.

Ser. No. 141,875. (CLASS 39. CLOTHING.) F. A. PATRICK & CO., Duluth, Minn. Filed Jan. 5, 1921.

Northland

Particular description of goods.—Aprons, Bath-Robes, Blouses, Booties, Rubber Boots, Leather Boots, Cloth Capes, Fur Capes, Cloth Capes Lined with Fur, Rubber Caps, Leather Caps, Fur Caps, Cloth Caps, Caps of Oiled Fabric, Caps of Waterproof Fabric, Rubber Coats, Leather Coats, Fur Coats, Fabric Coats, Fur-Lined Coats, Coats of Oiled Fabric, Coats of Waterproof Material; Men's, Women's, and Children's Drawers of Either Textile Fabric or Knitted Fabric; Dresses, Gowns; Men's, Women's, and Children's Hats of Either Straw, Felt, Cloth, Beaver, or Rubber; Rubber Hoods, Fabric Hoods, Straw Hoods; Hosiery of Either Silk, Wool, Cotton, or Mercerized Fabric; Insoles, Fabric Jackets, Fur Jackets, Leather Jackets, Jumpers, Mufflers; Leggings of Either Leather, Canvas, or Cloth; Moccasins of Either Leather, Canvas, or Cloth; Hand-Muffs of Either Fabric or Fur, Ear-Muffs of Either Fabric or Fur, Nightgowns, Overalls; Overshoes of Either Rubber, Cloth, or Both Rubber and Cloth; Pajamas, Pantaloons, Rubber Raincoats, Raincoats of Cravenette Material, Fur Robes, Fabric Robes; Sandals of Either Rubber, Leather, or Canvas; Slippers of Either Cloth, Leather, or Canvas; Dress Outer Shirts, Negligée Outer Shirts, Work Outer Shirts, Outer Skirts, Sweaters, Feather Toques, Fabric Toques, Fabric Ulsters, Fur Ulsters, Fur-Lined Ulsters; Men's, Women's, and Children's Undershirts of Either Knitted or Textile Fabric, Outer Vests, Undervests, Shirtwaists, Underwaists, Waistcoats, Trousers of Oiled Fabric, Leather Trousers, Rubber Trousers, Trousers of Waterproof Material, Fabric Cloaks, Fur Cloaks, Fur-Lined Cloaks; Gloves of Either Rubber, Leather, or Fabric; Overcoats of Either Rubber, Leather, or Fabric; Men's, Women's, and Children's Knitted Underwear Made up of Either One Garment or More Than One Garment; Outer Suits for Men, Women, and Children; Men's, Women's, and Children's Undersuits of Either Knitted or Textile Fabric, and Children's Romper-Suits.
Claims use since Jan. 1, 1912.

Ser. No. 141,884. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STEVENS-DURYEA, INC., Chicopee, Mass. Filed Jan. 5, 1921.

STEVENS DURYEA

Particular description of goods.—Automobiles.
Claims use since Jan. 1, 1910.

Ser. No. 141,891. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN DESATYPE CO., New York, N. Y. Filed Jan. 6, 1921.

DESATYPE

Consisting of the word "Desatype."
Particular description of goods.—Photographic Typewriters.
Claims use since Mar. 24, 1919.

Ser. No. 141,895. (CLASS 39. CLOTHING. GEORGE BORGFELDT & Co., New York, N. Y. Filed Jan. 6, 1921.

CELEBRATE

Particular description of goods.—Quilted Vests, Robes, Kimonos; Ladies' Waists, Skirts, Underwear, and Lingerie, as Follows: Nightgowns, Envelop-Chemises, Corset-Covers, Drawers, and Step-Ins.
Claims use since about October, 1918.

Ser. No. 141,919. (CLASS 39. CLOTHING.) CHARLES MUNTER, New York, N. Y. Filed Jan. 6, 1921.

BREATHEMORE

Particular description of goods.—Corsets, Waist-Corsets, Brassières, Abdominal Belts and Supports, Shoulder-Braces, Combined Abdominal Supports and Shoulder-Braces, and Undergarments.
Claims use since Oct. 15, 1919.

Ser. No. 141,941. (CLASS 39. CLOTHING.) BOB & BASKIND, New York, N. Y. Filed Jan. 7, 1921.

BOBCAT

Consisting of the word "Bobcat."
Particular description of goods.—Men's Flannel Shirts, Men's Work-Shirts, and Men's Dress-Shirts.
Claims use since 1917.

Ser. No. 141,956. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PATTERSON CANDY CO. LIMITED, Toronto, Ontario, Canada. Filed Jan. 7, 1921.



Patterkriss

Particular description of goods.—Chocolates and Candy.
Claims use since January, 1913.

Ser. No. 142,015. (CLASS 37. PAPER AND STATIONERY.) GROVETON PAPER COMPANY, INC., Groveton, N. H. Filed Jan. 10, 1921.

Dello Bond

No claim being made to the exclusive right to use the words "Bond," "Quality," "Paper," and "Service" apart from other features of the mark.

Particular description of goods.—Paper for Writing, Typewriting, Printing, and Lithographing.

Claims use since Feb. 16, 1914.

Ser. No. 142,029. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES H. PUGH LIMITED, Birmingham, England. Filed Jan. 10, 1921.

SENSPRAY

Particular description of goods.—Carbureters, Being Parts of Internal-Combustion Engines.

Claims use since the year 1911.

Ser. No. 142,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLING & COMPANY, Indianapolis, Ind. Filed Jan. 11, 1921.

Plee-Zing

Particular description of goods.—Old-Fashioned Taffy-Candy.

Claims use since September, 1919.

Ser. No. 142,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. GASTUN & COMPANY INC., New York, N. Y. Filed Jan. 11, 1921.

INKOA

Particular description of goods.—Salad-Oil Pressed from Corn.

Claims use since July 1, 1920.

Ser. No. 142,090. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed Jan. 11, 1921.

STERLING

For the purposes of this registration, without relinquishing our common-law rights, we disclaim the exclusive use of the word "Sterling" except in association with the mark as shown.

Particular description of goods.—Garden-Seed.

Claims use since January, 1898.

Ser. No. 142,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARRENSBURG CANNING COMPANY, Warrensburg, Ill. Filed Jan. 11, 1921.

AT'S A BOY

Particular description of goods.—Canned Corn.

Claims use since Nov. 1, 1920.

Ser. No. 142,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULER CHOCOLATE FACTORY, Winona, Minn. Filed Jan. 11, 1921.

Paramount

Particular description of goods.—Chocolate Candy.

Claims use since 1913.

Ser. No. 142,104. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULER CHOCOLATE FACTORY, Winona, Minn. Filed Jan. 11, 1921.

PARK SQUARE

Particular description of goods.—Chocolate Candy.

Claims use since July, 1920.

Ser. No. 142,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOODENUF MILLING & FEED CO., Minneapolis, Minn. Filed Jan. 12, 1921.

Midlets

The mark consists of the word "Midlets."

Particular description of goods.—Stock and Poultry Food.

Claims use since Dec. 31, 1920.

Ser. No. 142,143. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOODENUF MILLING & FEED CO., Minneapolis, Minn. Filed Jan. 12, 1921.

Shortlings

The mark consists of the word "Shortlings."

Particular description of goods.—Stock and Poultry Food.

Claims use since Dec. 31, 1920.

Ser. No. 142,172. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HARRY I. SHIRE, Detroit, Mich. Filed Jan. 12, 1921.

STARTOMETER

Particular description of goods.—Electrical Ammeters.

Claims use since Sept. 7, 1920.

Ser. No. 142,370. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTON MILLING COMPANY, Lansing, Mich. Filed Jan. 17, 1921.

SEARCHLIGHT

Particular description of goods.—Cereal Foods Commonly Known as Breakfast Cereals.

Claims use since July, 1914.

Ser. No. 142,387. (CLASS 12. CONSTRUCTION MATERIALS.) THE EMERSON CAREY FIBRE PRODUCTS COMPANY, Hutchinson, Kans. Filed Jan. 18, 1921.

ATLAS BOARD

No claim is made to the word "Board" or to the representation of the goods apart from the mark shown on the drawing.

Particular description of goods.—Wall-Board and Building-Paper.

Claims use since on about Dec. 1, 1920.

Ser. No. 142,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIBERTY MACCHERONI MFG. CO., Buffalo, N. Y. Filed Jan. 20, 1921.

LIBERTY

Particular description of goods.—Macaroni and Vermicelli.

Claims use since July 1, 1905.

Ser. No. 142,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEASE & DWYER CO., Memphis, Tenn. Filed Jan. 20, 1921.

PILOT

Particular description of goods.—Dairy Feed Composed of Unbolted Cornmeal, Alfalfa-Meal, Wheat-Bran, Cotton-Seed Meal, and Molasses.

Claims use since January, 1914.

Ser. No. 142,569. (CLASS 37. PAPER AND STATIONERY.) FREDERICK A. RIDLEY, New York, N. Y. Filed Jan. 21, 1921.

FOUNDATION

Particular description of goods.—Paper for General Printing and Writing Purposes and Mailing-Envelops.

Claims use since Nov. 28, 1916.

Ser. No. 142,570. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed Jan. 21, 1921.

CRANBERILADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Dec. 16, 1920.

Ser. No. 142,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed Jan. 21, 1921.

PINEAPLADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Dec. 18, 1920.

Ser. No. 142,573. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed Jan. 21, 1921.

WELCHLADE

Particular description of goods.—Jam, Jelly, Fruit Preserves, and Conserves.

Claims use since Dec. 16, 1920.

Ser. No. 142,575. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN NUT AND SEED OIL CORPORATION, New York, N. Y. Filed Jan. 22, 1921.

ANSOC

Particular description of goods.—Vegetable and Edible Oils.

Claims use since May 1, 1920.

Ser. No. 142,616. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDER GALLERANI COMPANY, Pittsburgh, Pa. Filed Jan. 22, 1921.

WHEAT-BOWS

Particular description of goods.—Macaroni.

Claims use since Jan. 15, 1921.

Ser. No. 142,617. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDER GALLERANI COMPANY, Pittsburgh, Pa. Filed Jan. 22, 1921.

WHEAT-BUDS

Particular description of goods.—Macaroni.
Claims use since Jan. 15, 1921.

Ser. No. 142,619. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HANOVIA CHEMICAL AND MANUFACTURING COMPANY, Newark, N. J. Filed Jan. 22, 1921.

KALOSAT

Particular description of goods.—Camera-Lenses.
Claims use since Dec. 1, 1920.

Ser. No. 142,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAPLE LEAF SWEETS CANDY COMPANY, Chicago, Ill. Filed Jan. 22, 1921.



Particular description of goods.—Candies.
Claims use since November, 1913.

Ser. No. 142,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARDONA, MOREY AND CRAIG, New York, N. Y. Filed Jan. 25, 1921.



Particular description of goods.—Coffee.
Claims use since Jan. 14, 1921.

Ser. No. 142,747. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COMMERCIAL EXCELITE CO., INC., Baltimore, Md. Filed Jan. 25, 1921.

Excelite

Particular description of goods.—Electric-Lighting Fixtures.
Claims use since June 14, 1920.

Ser. No. 142,790. (CLASS 12. CONSTRUCTION MATERIALS.) C. B. HEWITT & BROTHERS, INC., New York, N. Y. Filed Jan. 26, 1921.

ORONOKO

Particular description of goods.—Roofing-Paper.
Claims use since the early part of 1903.

Ser. No. 142,831. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ENG-SKELL COMPANY, INC., San Francisco, Calif. Filed Jan. 27, 1921.

Van-Verola

Particular description of goods.—A Flavoring Compound for Use in Syrups, Candies, Confectionery, and Bakery Goods.
Claims use since January, 1912.

Ser. No. 142,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ENG-SKELL COMPANY, INC., San Francisco, Calif. Filed Jan. 27, 1921.

Lilly Fluff

Particular description of goods.—Stabilizing or Smoothing Powder for Ice-Creams, Sherbets, and Ices.
Claims use since Jan. 1, 1912.

Ser. No. 142,861. (CLASS 37. PAPER AND STATIONERY.) SCOTT PAPER COMPANY, Chester, Pa. Filed Jan. 27, 1921.

Thirsty Fibre

No claim being made to the word "Fibre" apart from the mark as shown in the drawing.
Particular description of goods.—Paper Towels and Paper Napkins.
Claims use since Nov. 22, 1920.

Ser. No. 142,867. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ANCHOR STOVE & RANGE CO., New Albany, Ind. Filed Jan. 28, 1921.



No claim being made to the words "Stoves and Ranges" apart from the mark shown.
Particular description of goods.—Wood, Gas, and Oil Stoves and Ranges.
Claims use since 1882.

Ser. No. 142,929. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS H. FONTAINE, Worcester, Mass. Filed Jan. 29, 1921.

GRIA

Particular description of goods.—Insecticides.
Claims use since Apr. 1, 1915.

Ser. No. 142,962. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DUODISK STEEL WHEEL CORPORATION, Los Angeles, Calif. Filed Jan. 31, 1921.

DUODISK

Particular description of goods.—Vehicle-Wheels.
Claims use since Oct. 1, 1920.

Ser. No. 142,981. (CLASS 21. (ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHARLES E. LUEURG, Philadelphia, Pa. Filed Jan. 31, 1921.

"J-E"

Particular description of goods.—Storage Batteries.
Claims use since Aug. 24, 1920.

Ser. No. 143,020. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 31, 1921.

CORCO

Particular description of goods.—Sheet-Metal Culverts, Flood-Gates, and Lead Gas Connections.
Claims use since about June 15, 1914, on culverts; since about Nov. 15, 1914, on flood-gates, and since Jan. 1, 1921, on lead gas connections.

Ser. No. 143,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN H. ZETZSCHE, New York, N. Y. Filed Jan. 31, 1921.



Particular description of goods.—Mayonnaise.
Claims use since Dec. 1, 1920.

Ser. No. 143,145. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SYMMS-BROWNELL MFG. CO., Sioux Falls, S. D. Filed Feb. 3, 1921.



Particular description of goods.—Spark-Plugs.
Claims use since about Mar. 1, 1918.

Ser. No. 143,204. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CABLE-DRAPER BAKING COMPANY, Detroit, Mich. Filed Feb. 5, 1921.

GREEN SEAL

Particular description of goods.—Bread.
Claims use since Jan. 3, 1921.

Ser. No. 143,416. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Feb. 10, 1921.

Toasty Top

Particular description of goods.—Bread.
Claims use since Jan. 17, 1921.

Ser. No. 143,417. (CLASS 37. PAPER AND STATIONERY.) J. J. WHITE PAPER CO., Canton, Mass. Filed Feb. 10, 1921.

PACKRITE

Consists of the fanciful word "Packrite."
Particular description of goods.—Waterproof Papers.
Claims use since Mar. 9, 1920.

Ser. No. 143,436. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANNIBAL MILLING CO., Hannibal, Mo. Filed Feb. 11, 1921.

HOUSEKEEPERS DELIGHT

Particular description of goods.—Wheat-Flour.
Claims use since 1890.

Ser. No. 143,483. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COMMERCIAL RADIO CO. OF AMERICA, Providence, R. I. Filed Feb. 12, 1921.

DUO-LATERAL

Particular description of goods.—Electric Coils.
Claims use since January, 1920.

Ser. No. 143,556. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Mo. Filed Feb. 14, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since the fall of 1914.

Ser. No. 143,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 14, 1921.

Split Silk

Particular description of goods.—Wheat-Flour.
Claims use since the fall of 1908.

Ser. No. 143,558. (CLASS 46. (FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 14, 1921.

GARNET

Particular description of goods.—Wheat-Flour.
Claims use since the fall of 1906.

Ser. No. 143,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 14, 1921.

TIBLOW'S BEST

Particular description of goods.—Wheat-Flour.
Claims use since Mar. 1, 1918.

Ser. No. 143,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 14, 1921.

CELIA

Particular description of goods.—Wheat-Flour.
Claims use since the fall of 1906.

Ser. No. 143,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 14, 1921.

ISMERTA

Particular description of goods.—Wheat-Flour.
Claims use since the fall of 1914.

Ser. No. 143,571. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. H. PARSONS CHEMICAL COMPANY, Chicago, Ill. Filed Feb. 14, 1921.

SCOOT

Particular description of goods.—Household and General Cleaning Compound in Powder Form.
Claims use since Jan. 20, 1921.

Ser. No. 143,576. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOFENTOWL MFG. CO., Los Angeles, Calif. Filed Feb. 14, 1921.

The Bunk

Particular description of goods.—Soap Paste.
Claims use since Jan. 22, 1921.

Ser. No. 143,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAER BAKING CO., Oakland and San Francisco, Calif. Filed Feb. 15, 1921.



Particular description of goods.—Foodstuffs—Namely, Cake.
Claims use since Nov. 15, 1920.

Ser. No. 143,622. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. WILKINS CO., Chicago, Ill. Filed Feb. 15, 1921.

Yum-Yum

Particular description of goods.—Oleomargarin.
Claims use since Jan. 14, 1921.

Ser. No. 143,646. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed Feb. 16, 1921.

CASTOLAY

Particular description of goods.—Soap.
Claims use since Jan. 27, 1921.

Ser. No. 143,657. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOSES ROSENTHAL, Oakland, Calif. Filed Feb. 16, 1921.

FRUITICLAIRE

Particular description of goods.—Cake.
Claims use since Jan. 10, 1921.

Ser. No. 143,689. (CLASS 33. GLASSWARE.) FLEXO LENS PROTECTOR COMPANY, Camden, N. J. Filed Feb. 17, 1921.

FLEXO

Particular description of goods.—Glass Lens for Headlights.
Claims use since Oct. 1, 1919.

Ser. No. 143,734. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BROWN COMPANY INC., Philadelphia, Pa. Filed Feb. 18, 1921.

CAPITAL

Particular description of goods.—Poultry Food Made From Meat and Bone Scraps.
Claims use since 1910.

Ser. No. 143,737. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEATRICE CREAMERY COMPANY, Chicago, Ill., and Topeka, Kans. Filed Feb. 18, 1921.

Parksdale

Particular description of goods.—Oleomargarin.
Claims use since May 1, 1903.

Ser. No. 143,747. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPE COUNTY MILLING COMPANY, Jackson, Mo. Filed Feb. 18, 1921.

White Water

Particular description of goods.—Self-Rising Flour.
Claims use since July, 1918.

Ser. No. 143,852. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CRAWFORD MANUFACTURING CO., INC., Richmond, Va. Filed Feb. 21, 1921.

CRAWFORD

Particular description of goods.—Tire-Covers.
Claims use since November, 1919.

Ser. No. 143,981. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HENRY F. COCKILL & SONS LIMITED, Whitcliffe, Cleckheaton, England. Filed Feb. 24, 1921.

CLECKTA

Particular description of goods.—Leather and Balata Belting.
Claims use since Apr. 1, 1919.

Ser. No. 144,131. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CUPPLES COMPANY MANUFACTURERS, St. Louis, Mo Filed Feb. 28, 1921.

F-S

Particular description of goods.—Rubber Tires.
Claims use since Jan. 15, 1921.

Ser. No. 144,166. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED & GLOBE RUBBER COMPANY, Trenton, N. J. Filed Feb. 28, 1921.



Particular description of goods.—Brake-Linings.
Claims use since Jan. 10, 1918.

Ser. No. 144,171. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLOY METAL STAMPING & SPECIALTY COMPANY, Philadelphia, Pa. Filed Mar. 1, 1921.

E-Z-ON

Particular description of goods.—Ground-Clamp for Electric Conductors.
Claims use since on or about Nov. 1, 1920.

Ser. No. 144,202. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. T. ROBERTSON CO., Hartford, Conn. Filed Mar. 1, 1921. Under ten-year proviso.

ROBERTSON'S

Particular description of goods.—Soaps.
Claims use since 1885.

Ser. No. 144,248. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Mar. 2, 1921.

SODATE

Particular description of goods.—Soap.
Claims use since Feb. 16, 1921.

Ser. No. 144,342. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE M-R COMPANY, Lincoln, Nebr. Filed Mar. 5, 1921.

K-L

Particular description of goods.—Timers and Commutators.
Claims use since Oct. 1, 1919.

Ser. No. 144,351. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RENOVATOL COMPANY, INC., Philadelphia, Pa. Filed Mar. 5, 1921.

RENOVATOL

Particular description of goods.—A Preparation for Taking Oil, Grease, and Water Out of Leather and Woven Power-Transmission Belts and for Cleaning Any Kind of Dirt, Gum, Lints, or Dust from Leather or Woven Power-Transmission Belts.
Claims use since Feb. 3, 1921.

Ser. No. 144,427. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WABASH VALLEY ELECTRIC CO., Clinton, Ind. Filed Mar. 7, 1921.



Particular description of goods.—Electrical Ranges and Electrical Washing-Machines.
Claims use since Sept. 17, 1917.

Ser. No. 144,582. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MAGIC KLENO MANUFACTURING CO., Kansas City, Mo. Filed Mar. 10, 1921.



Particular description of goods.—A Paste Preparation Having Detergent and Healing Properties.
Claims use since about Dec. 15, 1920.

Ser. No. 144,723. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) INDUSTRIAL CONTROLLER COMPANY, Milwaukee, Wis. Filed Mar. 14, 1921.

I-C

Particular description of goods.—Electrical-Motor Starters and Controllers.
Claims use since May, 1914.

Ser. No. 144,739. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WILLIAM L. PHILLIPS, Brockton, Mass. Filed Mar. 14, 1921.



No exclusive right is claimed to the words "Duplex Spark Plug" or to the representation of a spark-plug apart from the mark shown in the drawing.
Particular description of goods.—Spark-Plugs.
Claims use since Mar. 10, 1921.

Ser. No. 144,764. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Mar. 15, 1921.

Sunbeam

Particular description of goods.—Electric Flatirons.
Claims use since Mar. 1, 1921.

Ser. No. 144,789. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SILICA PRODUCTS COMPANY, San Francisco, Calif. Filed Mar. 15, 1921.

NATURAL

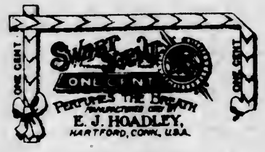
Particular description of goods.—Preparation for Cleaning and Polishing Tile, Porcelain, Marble, Metal, &c.
Claims use since Mar. 5, 1921.

Ser. No. 144,943. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SIMPLEX ELECTRIC HEATING CO., Boston, Mass. Filed Mar. 18, 1921.

SUNBOWL

Particular description of goods.—Electric Heating-Radiators.
Claims use since Aug. 7, 1919.

Ser. No. 145,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD J. HOADLEY, Hartford, Conn. Filed Mar. 28, 1921. Under ten-year proviso.



Particular description of goods.—Breath-Perfume Lozenges.
Claims use since Feb. 1, 1885.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

APRIL 26, 1921.

141,466. TRIMMINGS FOR RAILWAY-CARS—VIZ., BRAKE-HANDLES AND UNCOUPLING-HANDLES. THE ADAMS & WESTLAKE COMPANY, Chicago, Ill.
Filed June 2, 1919. Serial No. 119,093. PUBLISHED DECEMBER 7, 1920.

141,467. PULVERIZING MACHINERY OF THE BEATER TYPE AND PARTS THEREOF. THE AERO PULVERIZER COMPANY, Portland, Me., and New York, N. Y.
Filed January 7, 1920. Serial No. 126,891. PUBLISHED DECEMBER 28, 1920.

141,468. CANNED FRUITS. J. C. AINSLEY PACKING CO., Campbell, Calif.
Filed October 5, 1920. Serial No. 137,904. PUBLISHED DECEMBER 28, 1920.

141,469. OXYACETYLENE WELDING AND CUTTING APPARATUS. AIR REDUCTION COMPANY, INCORPORATED, New York, N. Y.
Filed October 14, 1920. Serial No. 138,272. PUBLISHED DECEMBER 28, 1920.

141,470. OVERALLS AND TROUSERS. ALTOONA OVERALL FACTORY, Altoona, Pa.
Filed August 16, 1920. Serial No. 136,142. PUBLISHED DECEMBER 7, 1920.

141,471. CANDY. AMBROSIA CHOCOLATE CREAM CO., Chicago, Ill.
Filed October 13, 1920. Serial No. 138,249. PUBLISHED DECEMBER 28, 1920.

141,472. CANDY. AMBROSIA CHOCOLATE CREAM CO., Chicago, Ill.
Filed October 13, 1920. Serial No. 138,250. PUBLISHED DECEMBER 28, 1920.

141,473. NON-ALCOHOLIC BEVERAGE OF MALT AND HOPS. AMERICAN BEVERAGES CO., Canandaigua, N. Y.
Filed February 12, 1917. Serial No. 101,315. PUBLISHED FEBRUARY 24, 1920.

141,474. CHEWING-GUM. AMERICAN CHICLE COMPANY, New York, N. Y.
Filed September 30, 1920. Serial No. 137,754. PUBLISHED DECEMBER 28, 1920.

141,475. TICKING. AMERICAN IMPORTING CO., New York, N. Y.
Filed March 11, 1920. Serial No. 129,529. PUBLISHED JUNE 8, 1920.

141,476. SPARK-PLUGS. AMERICAN MANUFACTURING COMPANY, Evansville, Ind.
Filed August 5, 1920. Serial No. 135,796. PUBLISHED DECEMBER 7, 1920.

141,477. CERTAIN NAMED FOODS. AMERICAN STORES COMPANY, Philadelphia, Pa.
Filed November 22, 1917. Serial No. 107,518. PUBLISHED DECEMBER 28, 1920.

141,478. CANNED FRUITS. A. O. ANDERSEN & CO., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,531. PUBLISHED DECEMBER 28, 1920.

141,479. CANNED FRUITS. A. O. ANDERSEN & CO., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,532. PUBLISHED DECEMBER 28, 1920.

141,480. CANNED FRUITS. A. O. ANDERSEN & CO., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,534. PUBLISHED DECEMBER 28, 1920.

141,481. WIRE FENCING. BROOKE ANDERSON, Chicago, Ill., assignor to Red Top Steel Post Company, Chicago, Ill., a Corporation of Illinois.
Filed May 17, 1920. Serial No. 132,498. PUBLISHED DECEMBER 28, 1920.

141,482. SYNTHETIC-INDIGO PASTE. ANDERSEN, MEYER & CO., LIMITED, New York, N. Y., and Shanghai, China.
Filed June 18, 1920. Serial No. 133,864. PUBLISHED DECEMBER 28, 1920.

141,483. MALT-SYRUP FOR FOOD PURPOSES. AUGUSTA ICE & BEVERAGE COMPANY, Augusta, Ga.
Filed September 30, 1920. Serial No. 137,756. PUBLISHED DECEMBER 7, 1920.

141,484. FRESH FRUITS. L. G. BACHAN, Watsonville, Calif.
Filed September 18, 1920. Serial No. 137,303. PUBLISHED DECEMBER 28, 1920.

141,485. COFFEE. JUNIUS H. BAILEY, Macon, Ga.
Filed September 18, 1920. Serial No. 137,302. PUBLISHED DECEMBER 7, 1920.

141,486. OLEOMARGARIN. THE BALTIMORE BUTTERINE CO., Baltimore, Md.
Filed September 20, 1920. Serial No. 137,359. PUBLISHED DECEMBER 7, 1920.

141,487. OLEOMARGARIN. THE BALTIMORE BUTTERINE CO., Baltimore, Md.
Filed September 29, 1920. Serial No. 137,724. PUBLISHED DECEMBER 7, 1920.

141,488. CANNED FRUITS AND CANNED VEGETABLES. BAYSIDE CANNING CO., Alviso, Calif.
Filed September 15, 1920. Serial No. 137,194. PUBLISHED DECEMBER 7, 1920.

141,489. CANNED FRUITS AND CANNED VEGETABLES. BAYSIDE CANNING CO., Alviso, Calif.
Filed September 15, 1920. Serial No. 137,195. PUBLISHED DECEMBER 28, 1920.

141,490. CREAM POWDER, PERFUMES, FACE-POWDER, SKIN-PAINT, AND COLD-CREAM. BEAUTE VIVA CO., Bandana, Ky.
Filed July 25, 1919. Serial No. 120,907. PUBLISHED DECEMBER 14, 1920.

141,491. CANDY. THE BELLE MEAD SWEETSMAKERS, Trenton, N. J.
Filed September 16, 1920. Serial No. 137,253. PUBLISHED DECEMBER 28, 1920.

141,492. TALKING-MACHINE NEEDLES. BLACKMAN TALKING MACHINE CO., INC., New York, N. Y.
Filed December 13, 1919. Serial No. 125,938. PUBLISHED DECEMBER 28, 1920.

141,493. OLIVE-OIL. BLUMAUER-FRANK DRUG COMPANY, Portland, Oreg.
Filed March 30, 1920. Serial No. 130,360. PUBLISHED DECEMBER 14, 1920.

141,494. WHOLE-WHEAT FLOUR, GRAHAM-FLOUR RYEMEAL, RYE-FLOUR, WHITE AND YELLOW CORNMEAL. MAX R. BOETGER, Davenport, Iowa.
Filed October 5, 1920. Serial No. 137,911. PUBLISHED DECEMBER 7, 1920.

141,495. CERTAIN NAMED FOODS. THE BON I. LOOK STORES COMPANY, Denver, Colo.
Filed July 21, 1920. Serial No. 135,230. PUBLISHED DECEMBER 28, 1920.

141,496. TOWELING. BOOTT MILLS, Lowell, Mass.
Filed April 8, 1920. Serial No. 130,799½. PUBLISHED DECEMBER 14, 1920.

141,497. WHEAT-BRAN CEREAL. THE BRANGESTA COMPANY, Sacramento, Calif.
Filed May 13, 1920. Serial No. 132,378. PUBLISHED DECEMBER 28, 1920.

141,498. SOAPS, CLEANING, SCOURING, AND POLISHING WADS, PADS, ROLLS, AND CLOTHS OF ABRADANT NATURE. BRILLO MANUFACTURING COMPANY, New York, N. Y.
Filed October 6, 1920. Serial No. 137,998. PUBLISHED DECEMBER 21, 1920.

141,499. CLEANING, SCOURING, AND POLISHING WADS, PADS, ROLLS, AND CLOTHS OF ABRADANT NATURE. BRILLO MANUFACTURING COMPANY, New York, N. Y.
Filed October 6, 1920. Serial No. 138,000. PUBLISHED DECEMBER 21, 1920.

141,500. CYCLE-SADDLES, (LEATHER.) J. B. BROOKS & COMPANY, LIMITED, Birmingham, England.
Filed September 9, 1920. Serial No. 136,965. PUBLISHED DECEMBER 28, 1920.

141,501. ELECTRIC FUSES AND CUT-OUTS. BUSSMANN MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 20, 1920. Serial No. 138,535. PUBLISHED DECEMBER 28, 1920.

141,502. MEDICINAL OIL USED FOR INTERNAL LUBRICATION AND AS A LAXATIVE. HARRY CABITT, Boston, Mass.
Filed April 19, 1920. Serial No. 131,311. PUBLISHED DECEMBER 21, 1920.

141,503. CERTAIN NON-ALCOHOLIC BEVERAGES. CAIRO FOOD PRODUCTS COMPANY, Cairo, Ill.
Filed February 7, 1920. Serial No. 128,078. PUBLISHED DECEMBER 14, 1920.

141,504. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif.
Filed September 15, 1920. Serial No. 137,201. PUBLISHED DECEMBER 7, 1920.

141,505. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif.
Filed September 15, 1920. Serial No. 137,205. PUBLISHED DECEMBER 7, 1920.

141,506. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif.
Filed September 15, 1920. Serial No. 137,209. PUBLISHED DECEMBER 7, 1920.

141,507. CERTAIN NAMED FOODS. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed November 24, 1917. Serial No. 107,586. PUBLISHED DECEMBER 28, 1920.

141,508. CANDIES. THE CANDY COMPANY OF AMERICA, Washington, D. C.
Filed October 28, 1920. Serial No. 138,897. PUBLISHED FEBRUARY 8, 1921.

141,509. WHEAT-FLOUR. CAPE COUNTY MILLING COMPANY, Jackson, Mo.
Filed August 9, 1920. Serial No. 135,915. PUBLISHED DECEMBER 7, 1920.

141,510. DRY BATTERIES. THE CARBON PRODUCTS COMPANY, Lancaster, Ohio.
Filed August 10, 1920. Serial No. 135,960. PUBLISHED DECEMBER 7, 1920.

141,511. RUBBER TIRES, TUBES, INNER LINERS, AND BLOW-OUT PATCHES. C. C. C. FIRE HOSE CO., Canton, Mass.
Filed September 7, 1920. Serial No. 136,871. PUBLISHED DECEMBER 7, 1920.

141,512. WHEAT-FLOUR. CENTENNIAL MILL COMPANY, Seattle, Wash.
Filed September 30, 1920. Serial No. 137,763. PUBLISHED JANUARY 11, 1921.

141,513. ELECTRIC-ARC LAMPS. CHARLES P. CHAMBERLAIN, Los Angeles, Calif.
Filed September 13, 1920. Serial No. 137,110. PUBLISHED DECEMBER 7, 1920.

141,514. SILK OR PART SILK WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed August 14, 1920. Serial No. 136,116. PUBLISHED DECEMBER 7, 1920.

141,515. ELECTRICAL WIRES AND CABLES. CHICAGO INSULATED WIRE & MFG. CO., Sycamore, Ill.
Filed October 20, 1920. Serial No. 138,546. PUBLISHED DECEMBER 7, 1920.

141,516. LAXATIVE PILLS. JOHN DIXON CHIPLEY, Moorefield, W. Va.
Filed January 26, 1920. Serial No. 127,571. PUBLISHED JANUARY 11, 1921.

141,517. MEDICINAL PREPARATIONS—NAMELY, MEDICATED PETROLEUM JELLIES AND OINTMENTS. WILLIAM CHUBBUCK, Rockaway Beach, N. Y.
Filed May 3 1920. Serial No. 131,944. PUBLISHED DECEMBER 28, 1920.

141,518. MARL LIME FOR ACID-SOIL TREATMENT. CLAREMONT MARL PRODUCTS COMPANY, INC., Claremont, Va.
Filed May 1, 1920. Serial No. 131,900. PUBLISHED JANUARY 18, 1921.

141,519. HONEY. CLOVERLAND APIARIES CO., Wausau, Wis.
Filed May 3, 1920. Serial No. 131,945. PUBLISHED DECEMBER 28, 1920.

141,520. PHONOGRAPHS. COLE & DUNAS MUSIC CO., Chicago, Ill.
Filed August 6, 1920. Serial No. 135,838. PUBLISHED DECEMBER 7, 1920.

141,521. MEDICINAL TONICS. COLEMAN AND COMPANY, LIMITED, Norwich, England.
Filed March 15, 1920. Serial No. 129,699. PUBLISHED DECEMBER 28, 1920.

141,522. WHEAT-FLOUR. COLLINS FLOUR MILLS, Pendleton, Oreg.
Filed September 23, 1920. Serial No. 137,516. PUBLISHED DECEMBER 7, 1920.

141,523. TIRE-CHAINS. THE COLUMBUS MCKINNON CHAIN COMPANY, Columbus, Ohio.
Filed October 27, 1920. Serial No. 138,848. PUBLISHED DECEMBER 28, 1920.

141,524. CHILDREN'S WASH, SILK, AND WOOL DRESSES. COOPER COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed August 24, 1920. Serial No. 136,397. PUBLISHED DECEMBER 7, 1920.

141,525. CEREAL EXTRACTS FOR USE IN THE MANUFACTURE OF BREAD. THE CORBY COMPANY, Langdon, D. C., assignor to The Fleischmann Company, a Corporation of Ohio.
Filed July 10, 1916. Serial No. 96,458. PUBLISHED DECEMBER 14, 1920.

141,526. MOTORS AND GENERATORS, BOTH ALTERNATING AND DIRECT, AND CERTAIN NAMED STARTERS. CROCKER-WHEELER COMPANY, Ampere, N. J.
Filed October 25, 1920. Serial No. 138,755. PUBLISHED DECEMBER 28, 1920.

141,527. MOTORS AND GENERATORS, BOTH ALTERNATING AND DIRECT, AND CERTAIN NAMED STARTERS. CROCKER-WHEELER COMPANY, Ampere, N. J.
Filed October 25, 1920. Serial No. 138,754. PUBLISHED DECEMBER 28, 1920.

141,528. LADIES', GIRLS', AND LITTLE-MISSES' DRESSES. CROWN, INC., New York, N. Y.
Filed August 21, 1920. Serial No. 136,323. PUBLISHED DECEMBER 7, 1920.

141,529. LIQUID POLISH FOR FURNITURE AND AUTOMOBILE-BODIES. WILLIAM H. DAMON, Chicago, Ill.
Filed July 21, 1920. Serial No. 135,236. PUBLISHED DECEMBER 14, 1920.

141,530. AXLE STANDS, BABBITTING OUTFITS, BURNING-IN MACHINES, ARBORS, MOTOR-STANDS, MOTOR-VISES, PISTON-VISES, AND DOLLY-JACKS. DANIELSON TOOL COMPANY, Wausau, Wis.
Filed August 26, 1920. Serial No. 136,511. PUBLISHED NOVEMBER 2, 1920.

141,531. LEATHER SHOES. H. E. DAVIS CO., Freeport, Me.
Filed August 16, 1920. Serial No. 136,152. PUBLISHED DECEMBER 7, 1920.

141,532. ELECTRICAL INSULATING MATERIAL. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa.
Filed September 22, 1920. Serial No. 137,447. PUBLISHED DECEMBER 7, 1920.

141,533. HAND-OPERATED ROTARY FANS. SIMON DICK, Paris, France.
Filed April 22, 1920. Serial No. 131,468. PUBLISHED DECEMBER 28, 1920.

141,534. CHEWING-GUM. DON M. DICKINSON, JR., Detroit, Mich.
Filed September 20, 1920. Serial No. 137,365. PUBLISHED DECEMBER 7, 1920.

141,535. FEEDER FOR HOGS. DIXIE MILLS, Adams, Tenn.
Filed May 8, 1920. Serial No. 132,172. PUBLISHED DECEMBER 7, 1920.

141,536. HIGH-STRAIN GALVANIZED WIRE. JOHN DUNN, SON & CO., New York, N. Y.
Filed September 8, 1920. Serial No. 136,937. PUBLISHED JANUARY 11, 1921.

141,537. HIGH-STRAIN GALVANIZED WIRE. JOHN DUNN, SON & CO., New York, N. Y.
Filed September 8, 1920. Serial No. 136,938. PUBLISHED JANUARY 11, 1921.

141,538. LEAD-PENCILS. EAGLE PENCIL COMPANY, New York, N. Y.
Filed November 5, 1920. Serial No. 139,201. PUBLISHED DECEMBER 7, 1920.

141,539. LEAD-PENCILS. EAGLE PENCIL COMPANY, New York, N. Y.
Filed November 5, 1920. Serial No. 139,202. PUBLISHED DECEMBER 7, 1920.

141,540. ELECTRIC INCUBATORS. ELECTRIC CONTROLLER CO., Indianapolis, Ind.
Filed May 10, 1920. Serial No. 132,233. PUBLISHED DECEMBER 7, 1920.

141,541. SALVE FOR MASSAGING PARALYZED LIMBS. NATHAN ELOVITZ, Chicago, Ill.
Filed April 26, 1920. Serial No. 131,629. PUBLISHED DECEMBER 28, 1920.

141,542. ELECTRIC HEATERS ADAPTED FOR HEATING HAND-TOOLS. EDWIN L. EMERSON, Boston, Mass.
Filed September 24, 1920. Serial No. 137,573. PUBLISHED DECEMBER 7, 1920.

141,543. ADDING-MACHINES. ERIE CALCULATOR CO., Erie, Pa.
Filed October 30, 1920. Serial No. 138,982. PUBLISHED DECEMBER 28, 1920.

141,544. CANNED FISH. C. M. EVERITT & J. P. TODD, INC., Seattle, Wash.
Filed October 5, 1920. Serial No. 137,923. PUBLISHED DECEMBER 28, 1920.

141,545. SHOES AND BOOTS MADE OF LEATHER, RUBBER, CANVAS, FABRIC, AND OF COMBINATIONS. THE EXCELSIOR SHOE COMPANY, Portsmouth, Ohio.
Filed February 28, 1920. Serial No. 129,007. PUBLISHED DECEMBER 14, 1920.

141,546. COTTON YARNS. THE FINE COTTON SPINNERS & DOUBLERS' ASSOCIATION, LD., Manchester, England.
Filed July 14, 1919. Serial No. 120,528. PUBLISHED DECEMBER 14, 1920.

141,547. HAIR-NETS. EMANUEL FINEBURG, New York, N. Y.
Filed August 13, 1920. Serial No. 136,076. PUBLISHED DECEMBER 7, 1920.

141,548. LUBRICATING OILS AND GREASES. FISKE BROTHERS REFINING CO., New York, N. Y.
Filed August 12, 1920. Serial No. 136,028. PUBLISHED DECEMBER 7, 1920.

141,549. MAGNESITE COMPOSITION IN POWDERED FORM FOR MAKING PLASTIC BUILDING MATERIALS. FLEXOTILE FLOOR COMPANY, Rockford, Ill.
Filed March 8, 1920. Serial No. 129,378. PUBLISHED DECEMBER 28, 1920.

141,550. EXTRACTS FOR FOOD-FLAVORING PURPOSES. FOOTE & JENKS, Jackson, Mich.
Filed December 8, 1919. Serial No. 125,694. PUBLISHED DECEMBER 14, 1920.

141,551. FRESH FRUITS. FOWLER GRAPE GROWERS ASSOCIATION, Fowler, Calif.
Filed September 15, 1920. Serial No. 137,220. PUBLISHED DECEMBER 7, 1920.

141,552. TRACTORS. THE FRANKLIN TRACTOR COMPANY, Middletown, Ohio.
Filed February 28, 1920. Serial No. 129,009. PUBLISHED DECEMBER 28, 1920.

141,553. INSECT-POWDER. THE FRANK TEA & SPICE CO., Cincinnati, Ohio.
Filed July 12, 1920. Serial No. 134,816. PUBLISHED DECEMBER 14, 1920.

141,554. CANDY. GEORGE H. FRITZ & SONS, Newark, N. J.
Filed October 5, 1920. Serial No. 137,924. PUBLISHED DECEMBER 28, 1920.

141,555. SILK HAIR-NETS. FULD, TRAUBE & CO., INC., New York, N. Y.
Filed August 13, 1920. Serial No. 136,075. PUBLISHED DECEMBER 7, 1920.

141,556. CERTAIN NAMED ELECTRICAL APPARATUS. THE P. A. GEIER COMPANY, Cleveland, Ohio.
Filed May 29, 1920. Serial No. 133,089. PUBLISHED DECEMBER 28, 1920.

141,557. CRUDE PETROLEUM AND ITS REFINED PRODUCTS—TO WIT, KEROSENE, GASOLENE, AND LUBRICANTS. THE GENERAL OIL COMPANY, Houston, Tex.
Filed November 14, 1919. Serial No. 124,895. PUBLISHED DECEMBER 14, 1920.

141,558. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed January 15, 1919. Serial No. 115,202. PUBLISHED DECEMBER 14, 1920.

141,559. GINGER-ALE, A NON-ALCOHOLIC, MALTLESS, NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK. SIGMUND L. GOLDMAN, Chicago, Ill.
Filed October 11, 1919. Serial No. 123,691. PUBLISHED DECEMBER 14, 1920.

141,560. WOOLENS, WORSTEDS, CHEVIOTS, SERGES, AND BROADCLOTHS SOLD IN THE PIECE. NAT. GINSBURG & BRO., New York, N. Y.
Filed January 29, 1920. Serial No. 127,719. PUBLISHED DECEMBER 14, 1920.

141,561. BRACELETS, BROOCHES, AND FINGER-RINGS OF PRECIOUS METAL. THE GOLDMAN-KOLBER CO. INC., New York, N. Y.
Filed July 16, 1920. Serial No. 135,041. PUBLISHED DECEMBER 14, 1920.

141,562. WATERPROOF BOOTS HAVING LEATHER TOPS AND KNIT WOOL GAITERS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed August 20, 1920. Serial No. 136,292. PUBLISHED DECEMBER 7, 1920.

141,563. CANDY. GRAMERCY CHOCOLATE COMPANY, INC., New York, N. Y.
Filed September 16, 1919. Serial No. 122,771. PUBLISHED DECEMBER 14, 1920.

141,564. CANNED FISH. GREAT WESTERN PACKING CO., San Francisco, Calif.
Filed October 5, 1920. Serial No. 137,928. PUBLISHED DECEMBER 28, 1920.

141,565. OLIVE-OIL. GRECIAN IMPORTING & TRADING CO. INC., New York, N. Y.
Filed August 27, 1920. Serial No. 136,551. PUBLISHED DECEMBER 7, 1920.

141,566. CAKES, COOKIES, AND FRIED CAKES. GRENNAN CAKE CORPORATION, Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn., and Chicago, Ill.
Filed October 4, 1920. Serial No. 137,878. PUBLISHED DECEMBER 7, 1920.

141,567. FLOWER, VEGETABLE, AND FIELD SEEDS. GRISWOLD SEED & NURSERY CO., Lincoln, Nebr.
Filed February 5, 1920. Serial No. 128,002. PUBLISHED DECEMBER 14, 1920.

141,568. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, COFFEE, AND SPICES. GUYER & CALKINS CO., Freeport, Ill.
Filed October 20, 1920. Serial No. 138,558. PUBLISHED DECEMBER 28, 1920.

141,569. SHELLED AND UNSHELLED NUTS IN THEIR NATURAL STATE. HABICHT AND COMPANY, New York, N. Y.
Filed August 23, 1919. Serial No. 121,936. PUBLISHED DECEMBER 14, 1920.

141,570. CANTALOUPS. HALF MOON FRUIT & PRODUCE CO., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,567. PUBLISHED DECEMBER 28, 1920.

141,571. CANDY. NATHANIEL C. HALL, Old Lyme, Conn.
Filed September 20, 1920. Serial No. 137,375. PUBLISHED DECEMBER 7, 1920.

141,572. MEDICINE USED IN THE TREATMENT OF INFLUENZA, COLDS, AND GRIP. HILLMAN DRUG CO., Mart, Tex.
Filed July 12, 1920. Serial No. 134,820. PUBLISHED DECEMBER 14, 1920.

141,573. BUILDING-TILE MADE OF CLAY PRODUCTS. THE HOLLOW BUILDING TILE ASSOCIATION, Chicago, Ill.
Filed March 11, 1920. Serial No. 129,548. PUBLISHED DECEMBER 28, 1920.

141,574. COTTON GOODS IN THE PIECE. T. HOLT HAYWOOD, New York, N. Y.
Filed August 9, 1920. Serial No. 135,926. PUBLISHED DECEMBER 7, 1920.

141,575. SWEET CHOCOLATE, CHOCOLATE-BARS, MILK-CHOCOLATES, NUT-BARS, FRUIT AND NUT BARS, VANILLA SWEET CHOCOLATE. HOOTON CHOCOLATE COMPANY, Newark, N. J.
Filed September 3, 1920. Serial No. 136,799. PUBLISHED DECEMBER 7, 1920.

141,576. AUTOMOBILE-WHISTLES, ADAPTERS FOR ATTACHING WHISTLES TO AUTOMOBILE-CYLINDERS. INTERSTATE TOOL AND MFG. CO., St. Louis, Mo.
Filed September 20, 1920. Serial No. 137,378. PUBLISHED DECEMBER 28, 1920.

141,577. INSECTICIDES AND GERMICIDES. INTERSTATE CHEMICAL COMPANY, Jersey City, N. J.
Filed July 21, 1920. Serial No. 135,248. PUBLISHED DECEMBER 14, 1920.

141,578. INSECTICIDES AND GERMICIDES. INTERSTATE CHEMICAL COMPANY, Jersey City, N. J.
Filed July 21, 1920. Serial No. 135,247. PUBLISHED DECEMBER 14, 1920.

141,579. ANALGESIC AND STIMULATING ANTISEPTIC OINTMENT FOR INFLAMMATORY CONGESTION AND RHEUMATIC ACHES AND PAINS. JOSEPH E. JACOBSON, Jacksonville, Fla.
Filed February 16, 1920. Serial No. 128,441. PUBLISHED DECEMBER 28, 1920.

141,580. CHOCOLATE-COATED CANDIES. KATHERINE JANIECE, Los Angeles, Calif.
Filed September 30, 1920. Serial No. 137,779. PUBLISHED DECEMBER 7, 1920.

141,581. CANNED VEGETABLES, CANNED FRUITS, COFFEE, AND SPICES. THE JETT & WOOD MERCANTILE COMPANY, Wichita, Kans.
Filed October 20, 1920. Serial No. 138,573. PUBLISHED DECEMBER 28, 1920.

141,582. BOILER COMPOUND, DISINFECTANT, AND ANTIFREEZE SOLUTION. THE JEWETT & SOWERS OIL CO., Chicago, Ill.
Filed April 26, 1920. Serial No. 131,637. PUBLISHED DECEMBER 28, 1920.

141,583. HAMS, BACON, BACON-BELLIES, SHOULDERS, DRIED BEEF, TONGUES, LARD, PORK, PORK TENDERLOINS, PIGS' FEET, SAUSAGE, AND MEAT-LOAF. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio.
Filed January 14, 1920. Serial No. 127,131. PUBLISHED OCTOBER 5, 1920.

141,584. CERTAIN NAMED SEALING PASTE. KEY BOILER EQUIPMENT COMPANY, St. Louis, Mo.
Filed March 5, 1920. Serial No. 129,262. PUBLISHED DECEMBER 28, 1920.

141,585. CREAM DESIGNED FOR USE IN THE TREATMENT OF FRECKLES. ELMER E. KIRKLAND, Jr., Binghamton, N. Y.
Filed June 4, 1920. Serial No. 133,260. PUBLISHED DECEMBER 28, 1920.

141,586. COATS, PANTS, AND OVERALLS. KLIMAX OVERALL COMPANY, Winder, Ga.
Filed August 16, 1920. Serial No. 136,160. PUBLISHED DECEMBER 7, 1920.

141,587. STARTING FLUID FOR AUTOMOBILES AND OTHER INTERNAL-COMBUSTION ENGINES. ARTHUR A. KOCH, Detroit, Mich.
Filed April 16, 1920. Serial No. 131,221. PUBLISHED DECEMBER 28, 1920.

141,588. WATCH-CRYSTALS. KONISHI KOTAKUDO & CO., New York, N. Y.
Filed January 3, 1920. Serial No. 126,774. PUBLISHED DECEMBER 28, 1920.

141,589. NON-ALCOHOLIC, MALTLESS CARBONATED BEVERAGES, AND SYRUPS FOR THE MANUFACTURE OF THE SAME. KOOL KOLA CO., Oklahoma, Okla.
Filed February 1, 1918. Serial No. 108,747. PUBLISHED MARCH 23, 1920.

141,590. CERTAIN ARTICLES OF CLOTHING. LACK MANUFACTURING COMPANY, New York, N. Y.
Filed November 25, 1919. Serial No. 125,290. PUBLISHED DECEMBER 14, 1920.

141,591. WHEAT-FLOUR. THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo.
Filed June 7, 1920. Serial No. 133,362. PUBLISHED DECEMBER 28, 1920.

141,592. WORSTED, WOOLEN, SILK, AND SILK AND WOOL MIXED YARNS. JAMES LEES AND SONS COMPANY, Bridgeport, Pa.
Filed August 4, 1920. Serial No. 135,788. PUBLISHED DECEMBER 7, 1920.

141,593. COFFEE. THE LEVERING COFFEE CO., Baltimore, Md.
Filed September 15, 1920. Serial No. 137,229. PUBLISHED DECEMBER 7, 1920.

141,594. NON-ALCOHOLIC MALT BEVERAGE CONTAINING NOT EXCEEDING ONE-HALF ONE PER CENT. ALCOHOL, BY VOLUME. LEXINGTON BREWING COMPANY, Lexington, Ky.
Filed July 17, 1920. Serial No. 135,104. PUBLISHED DECEMBER 14, 1920.

141,595. LEATHER. LOPES EXPORT COMPANY, New York, N. Y., assignor to Lopes Export Company, Incorporated, New York, N. Y., a Corporation of New York.
Filed June 13, 1919. Serial No. 119,568. PUBLISHED DECEMBER 14, 1920.

141,596. CAKES, CRACKERS, AND BISCUITS. LOOSE WILES BISCUIT COMPANY, Long Island City, N. Y.
Filed September 13, 1920. Serial No. 137,132. PUBLISHED DECEMBER 7, 1920.

141,597. SPARK-PLUG INSULATORS. LYDON MANUFACTURING CO., Chicago, Ill.
Filed August 25, 1920. Serial No. 136,475. PUBLISHED DECEMBER 7, 1920.

141,598. PETTICOATS. JOHN J. MCLOUGHLIN, Philadelphia, Pa.
Filed August 14, 1920. Serial No. 136,124. PUBLISHED DECEMBER 7, 1920.

141,599. WATCHCASES. ROBERT J. MACHER, New York, N. Y.
Filed February 6, 1920. Serial No. 128,046. PUBLISHED DECEMBER 28, 1920.

141,600. ALL-WOOL BLANKETS. R. H. MACY & CO., INC., New York, N. Y.
Filed August 13, 1920. Serial No. 136,083. PUBLISHED DECEMBER 7, 1920.

141,601. LEATHER, FABRIC, OR RUBBER BELTS FOR SUPPORTING OUTER GARMENTS. THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio.
Filed July 23, 1920. Serial No. 135,336. PUBLISHED AUGUST 24, 1920.

141,602. NOVOCAIN TABLETS, NOVOCAIN AND EPINEPHRIN TABLETS. MARTIN CHEMICAL COMPANY, Pittsburgh, Pa.
Filed February 26, 1920. Serial No. 128,931. PUBLISHED DECEMBER 14, 1920.

141,603. WOOD-STAIN OR FLOOR-DRESSING. MARTIN VARNISH COMPANY, Chicago, Ill.
Filed August 5, 1920. Serial No. 135,818. PUBLISHED DECEMBER 7, 1920.

141,604. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed October 1, 1920. Serial No. 137,815. PUBLISHED DECEMBER 28, 1920.

141,605. CERTAIN NAMED PACKING. MASSASOIT MANUFACTURING CO., Fall River, Mass.
Filed March 4, 1920. Serial No. 129,221. PUBLISHED SEPTEMBER 14, 1920.

141,606. HATS AND CAPS FOR MEN AND BOYS. MAX RAPPAPORT, Los Angeles, Calif.
Filed February 6, 1920. Serial No. 128,048. PUBLISHED DECEMBER 14, 1920.

141,607. AUTOMOBILES. MAXWELL MOTOR COMPANY, INCORPORATED, Detroit, Mich.
Filed September 10, 1920. Serial No. 137,038. PUBLISHED DECEMBER 7, 1920.

141,608. ALKALINE RHUBARB COMPOUND USED IN VARIOUS INTESTINAL AND STOMACHIC DISORDERS AND AS A TONIC. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,489. PUBLISHED DECEMBER 14, 1920.

141,609. PLUG-VALVES. THE MERRILL COMPANY, San Francisco, Calif.
Filed October 2, 1920. Serial No. 137,845. PUBLISHED DECEMBER 28, 1920.

141,610. CHOCOLATE CANDY. THE METRO CHOCOLATE CO. INC., Brooklyn, N. Y.
Filed May 12, 1920. Serial No. 132,360. PUBLISHED DECEMBER 7, 1920.

141,611. WHEAT-FLOUR. MIDLAND CEREAL PRODUCTS CO., Denver, Colo.
Filed October 5, 1920. Serial No. 137,948. PUBLISHED DECEMBER 7, 1920.

141,612. WHEAT-FLOUR. THE MILLERS MILLING COMPANY, Enid, Okla.
Filed August 9, 1920. Serial No. 135,938. PUBLISHED DECEMBER 7, 1920.

141,613. CANDY. MILLS CANDY COMPANY, Milwaukee, Wis.
Filed September 16, 1920. Serial No. 137,266. PUBLISHED DECEMBER 7, 1920.

141,614. PHONOGRAPHS. GEORGE MITCHELL, New York, N. Y.
Filed September 7, 1920. Serial No. 136,904. PUBLISHED DECEMBER 7, 1920.

141,615. ASPHALT ROOFING. MOHEGAN WALL BOARD & ROOFING CORPORATION, New York, N. Y.
Filed September 2, 1920. Serial No. 136,761. PUBLISHED DECEMBER 28, 1920.

141,616. ASPHALT ROOFING. MOHEGAN WALL BOARD & ROOFING CORPORATION, New York, N. Y.
Filed September 2, 1920. Serial No. 136,762. PUBLISHED DECEMBER 28, 1920.

141,617. VULCANIZING-PATCHES FOR AUTOMOBILE TIRES AND INNER TUBES. VIRGIL V. MOORE, Cordele, Ga.
Filed May 8, 1920. Serial No. 132,189. PUBLISHED DECEMBER 7, 1920.

141,618. LADIES', MISSES', AND CHILDREN'S DRESSES. MORRIS & COMPANY, INCORPORATED, Baltimore, Md.
Filed December 18, 1919. Serial No. 126,225. PUBLISHED DECEMBER 14, 1920.

141,619. FRONT-WHEEL SPINDLES FOR FORD AUTOMOBILES. MOTOR SPINDLE CORPORATION, Detroit, Mich.
Filed August 27, 1920. Serial No. 136,567. PUBLISHED DECEMBER 7, 1920.

141,620. CANNED FRUITS AND CANNED VEGETABLES. THOMAS J. MYER & CO., Baltimore, Md.
Filed September 20, 1920. Serial No. 137,385. PUBLISHED DECEMBER 7, 1920.

141,621. TONIC FOR THE BLOOD AND APPETITE. WYLIE T. NASH, Denver, Colo.
Filed September 8, 1920. Serial No. 136,950. PUBLISHED DECEMBER 28, 1920.

141,622. BELT-HOOKS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed June 18, 1920. Serial No. 133,886. PUBLISHED DECEMBER 28, 1920.

141,623. HAIR-NETS AND VEILS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed August 9, 1920. Serial No. 135,939. PUBLISHED DECEMBER 7, 1920.

141,624. HAIR-NETS AND VEILS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed August 9, 1920. Serial No. 135,941. PUBLISHED DECEMBER 7, 1920.

141,625. BEAMS, STUDDING, AND JOISTS OF METAL. NORTHWESTERN EXPANDED METAL COMPANY, Chicago, Ill.
Filed December 10, 1919. Serial No. 125,796. PUBLISHED DECEMBER 28, 1920.

141,626. EVAPORATED APPLES. NORTHWEST EVAPORATING COMPANY, Cashmere, Wash.
Filed October 9, 1920. Serial No. 138,132. PUBLISHED DECEMBER 28, 1920.

141,627. LEATHER BELTING. W. S. NOTT COMPANY, Minneapolis, Minn.
Filed October 16, 1919. Serial No. 123,861. PUBLISHED DECEMBER 7, 1920.

141,628. BARYTES, (SULFATE OF BARIUM,) AND CALCIUM CARBONATE. THE NULSEN CORPORATION, MANUFACTURERS, St. Louis, Mo.
Filed October 9, 1920. Serial No. 138,133. PUBLISHED DECEMBER 28, 1920.

141,629. LINIMENT FOR CERTAIN NAMED PURPOSES. HARRY D. OLDHAM, Urbana, Ill.
Filed May 24, 1919. Serial No. 118,891. PUBLISHED DECEMBER 28, 1920.

141,630. POPCORN CONFECTION. O-PEE-CHEE GUM CO., LIMITED, London, Ontario, Canada.
Filed September 19, 1919. Serial No. 122,909. PUBLISHED DECEMBER 14, 1920.

141,631. DEODORANT SALVE. FRED. M. OSHIMO, Portland, Oreg.
Filed June 14, 1920. Serial No. 133,676. PUBLISHED DECEMBER 28, 1920.

141,632. RAWHIDE LACE-LEATHER. PAGE BELTING COMPANY, Concord, N. H.
Filed October 27, 1920. Serial No. 138,873. PUBLISHED DECEMBER 28, 1920.

141,633. CERTAIN SAND-BLAST AND ALLIED EQUIPMENT AND FOUNDRY EQUIPMENT AND SUPPLIES. PANGBORN CORPORATION, Hagerstown, Md.
Filed May 15, 1920. Serial No. 132,483. PUBLISHED DECEMBER 28, 1920.

141,634. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. PATERSON BREWING & MALTING COMPANY, Paterson, N. J.
Filed November 8, 1918. Serial No. 114,105. PUBLISHED DECEMBER 9, 1919.

141,635. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. PATERSON BREWING & MALTING COMPANY, Paterson, N. J.
Filed November 13, 1918. Serial No. 114,154. PUBLISHED DECEMBER 9, 1919.

141,636. LIQUID METAL-POLISH. PATTON PAINT COMPANY, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania.
Filed February 14, 1920. Serial No. 128,405. PUBLISHED JULY 27, 1920.

141,637. SHAMPOOS. JULIUS PAULY, INCORPORATED, New York, N. Y.
Filed May 15, 1920. Serial No. 132,471. PUBLISHED DECEMBER 28, 1920.

141,638. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. PELS-JONES, New York, N. Y.
Filed April 7, 1920. Serial No. 130,772. PUBLISHED DECEMBER 28, 1920.

141,639. CANDY. STAVROS F. PETERSON, New York, N. Y.
Filed December 2, 1919. Serial No. 125,511. PUBLISHED DECEMBER 28, 1920.

141,640. PREPARATION FOR THE TREATMENT OF BLIND STAGGERS IN HORSES, HOGS, AND OTHER ANIMALS. RICHARD C. PHILPOT, Bennington, Okla.
Filed May 14, 1920. Serial No. 132,446. PUBLISHED DECEMBER 28, 1920.

141,641. MEDICINE FOR THE TREATMENT OF SCROFULA AND SKIN AFFECTIONS. MARGARET POLLARD, Toronto, Ontario, Canada.
Filed May 10, 1920. Serial No. 132,262. PUBLISHED DECEMBER 28, 1920.

141,642. NERVE MEDICINE OR PREPARATION. MARGARET POLLARD, Toronto, Ontario, Canada.
Filed May 10, 1920. Serial No. 132,263. PUBLISHED DECEMBER 28, 1920.

141,643. LUBRICATING-OILS. PUENTE OIL COMPANY, Los Angeles, Calif.
Filed May 11, 1920. Serial No. 132,318. PUBLISHED DECEMBER 7, 1920.

141,644. PATENT-LEATHER. RADEL LEATHER MANUFACTURING CO., Newark, N. J.
Filed April 9, 1920. Serial No. 130,918. PUBLISHED DECEMBER 28, 1920.

141,645. PNEUMATIC TIRES AND INTERLINERS COMPOSED OF RUBBER OR RUBBERIZED FABRIC AND RUBBER. RAY TIRE & RUBBER COMPANY, Chicago, Ill.
Filed February 2, 1920. Serial No. 127,868. PUBLISHED DECEMBER 14, 1920.

141,646. REFINED ELATERITE USED AS A PAINT. GEORGE R. RAYMOND, Salt Lake City, Utah.
Filed March 12, 1920. Serial No. 129,604. PUBLISHED DECEMBER 14, 1920.

141,647. MEDICINAL PREPARATION FOR INJECTION INTO THE VEINS TO COMBAT ALL FORMS OF TUBERCULOSIS. J. ROBERT, Paris, France.
Filed June 4, 1920. Serial No. 133,282. PUBLISHED DECEMBER 28, 1920.

141,648. HYDRATED LIME. ROCKLAND AND ROCKPORT LIME CORPORATION, Rockland, Me.
Filed March 12, 1920. Serial No. 129,608. PUBLISHED DECEMBER 28, 1920.

141,649. COFFEE. ADAM ROTH GROCERY COMPANY, St. Louis, Mo.
Filed October 20, 1920. Serial No. 138,597. PUBLISHED DECEMBER 28, 1920.

141,650. GARTERS AND HOSE-SUPPORTERS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,654. PUBLISHED DECEMBER 28, 1920.

141,651. [WITHDRAWN.]

141,652. [WITHDRAWN.]

141,653. [WITHDRAWN.]

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141,655. [WITHDRAWN.]

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141,665. CREEPERS, ROMPERS, AND BOYS' SUITS. RUST & THOMPSON, Malden, Mass.
Filed August 12, 1920. Serial No. 136,037. PUBLISHED DECEMBER 7, 1920.

141,666. HAIR-NETS. ROBBINS & SCHWARTZ, New York, N. Y.
Filed January 30, 1920. Serial No. 127,772. PUBLISHED DECEMBER 14, 1920.

141,667. GOLD ALLOY. ARNOLD SCHROETTER & CO., New York, N. Y.
Filed October 21, 1920. Serial No. 138,654. PUBLISHED DECEMBER 28, 1920.

141,668. CANDIES. SCHWABACHER BROS. & CO. INC., Seattle, Wash.
Filed October 26, 1920. Serial No. 138,828. PUBLISHED DECEMBER 28, 1920.

141,669. CONFECTIONER'S PRODUCT USED FOR ICE-CREAM SYRUP-TOPPINGS. SENNEFF-HERR CO., Sterling, Ill.
Filed August 21, 1920. Serial No. 136,340. PUBLISHED DECEMBER 7, 1920.

141,670. WOOL YARN. SEARS, ROEBUCK & COMPANY, Chicago, Ill.
Filed July 15, 1920. Serial No. 135,028. PUBLISHED DECEMBER 14, 1920.

141,671. CANNED VEGETABLES. THE SEARS AND NICHOLS CANNING CO., Chillicothe, Ohio.
Filed July 29, 1920. Serial No. 135,577. PUBLISHED DECEMBER 14, 1920.

141,672. CANNED VEGETABLES. THE SEARS AND NICHOLS CANNING CO., Chillicothe, Ohio.
Filed July 29, 1920. Serial No. 135,583. PUBLISHED DECEMBER 14, 1920.

141,673. FRUIT-JAR RINGS. SERVUS GROCERY PRODUCTS CORPORATION, New York, N. Y.
Filed September 9, 1920. Serial No. 137,002. PUBLISHED DECEMBER 7, 1920.

141,674. PHONOGRAPH-RECORDS. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed September 24, 1920. Serial No. 137,593. PUBLISHED DECEMBER 7, 1920.

141,675. OLEOMARGARIN. THE SHEDD CREAMERY CO., Detroit, Mich.
Filed September 13, 1920. Serial No. 137,153. PUBLISHED DECEMBER 7, 1920.

141,676. POPCORN CONFECTION. RALPH S. SHERRATT, St. Louis, Mo.
Filed September 20, 1920. Serial No. 137,395. PUBLISHED DECEMBER 7, 1920.

141,677. CHOCOLATE AND HARD CANDIES. THE SHOOT CHOCOLATE COMPANY, Cleveland, Ohio.
Filed October 8, 1920. Serial No. 138,109. PUBLISHED DECEMBER 28, 1920.

141,678. COTTON GOODS IN THE PIECE. WM. SIMPSON, SONS & CO., Philadelphia, Pa.
Filed August 13, 1920. Serial No. 136,095. PUBLISHED DECEMBER 7, 1920.

141,679. TABLE-SYRUP. SMITH-DAVIS COMPANY, INC., New Orleans, La.
Filed October 23, 1920. Serial No. 138,734. PUBLISHED DECEMBER 28, 1920.

141,680. LIVE CHICKS. THE SMITH STANDARD COMPANY, Cleveland, Ohio.
Filed August 26, 1920. Serial No. 136,535. PUBLISHED DECEMBER 7, 1920.

141,681. POULTRY FEEDS. E. G. SMYTH CO., St. Louis, Mo.
Filed August 24, 1920. Serial No. 136,434. PUBLISHED DECEMBER 7, 1920.

141,682. CLOTH SHAVING-TOWELS. SOAK-EM SHAVING TOWEL COMPANY, Oakland, Calif.
Filed July 19, 1920. Serial No. 135,177. PUBLISHED DECEMBER 14, 1920.

141,683. CERTAIN ARTICLES OF CLOTHING. SOCIÉTÉ ANONYME TISSAGE ET BONNETERIE DE TROYES, Troyes, France.
Filed July 18, 1919. Serial No. 120,681. PUBLISHED DECEMBER 14, 1920.

141,684. SILK HOSIERY-YARN. SOUTHERN EXPORT CORPORATION, New York, N. Y.
Filed September 9, 1920. Serial No. 1,370,021. PUBLISHED DECEMBER 7, 1920.

141,685. KNITTED FABRICS OF WOOL. SPECIALTY KNIT GOODS MANUFACTURING CO., Brooklyn, N. Y.
Filed January 21, 1920. Serial No. 127,451. PUBLISHED JUNE 1, 1920.

141,686. CRAYONS. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed October 23, 1920. Serial No. 138,732. PUBLISHED DECEMBER 28, 1920.

141,687. PIANOS. STEINWAY & SONS, New York, N. Y.
Filed September 23, 1920. Serial No. 137,544. PUBLISHED DECEMBER 7, 1920.

141,688. CORSETS. STERN BROTHERS, New York, N. Y.
Filed August 11, 1920. Serial No. 136,004. PUBLISHED DECEMBER 7, 1920.

141,689. SEMI-INDIRECT ELECTRIC LIGHTING FIXTURES. STRANSKY MFG. CO. INC., New York, N. Y.
Filed September 20, 1920. Serial No. 137,440. PUBLISHED DECEMBER 7, 1920.

141,690. AUTOMOBILES, MOTOR-TRUCKS, AND TRAILERS. THE STUDEBAKER CORPORATION, South Bend, Ind., and Detroit, Mich.
Filed September 4, 1920. Serial No. 136,853. PUBLISHED DECEMBER 7, 1920.

141,691. FRUIT CONFECTIONS OF VARIOUS FLAVORS. ARVI A. SUVI, New York, N. Y.
Filed September 18, 1920. Serial No. 137,340. PUBLISHED DECEMBER 7, 1920.

141,692. SHADE-CLOTH. TALBERT-WHITMORE COMPANY, Los Angeles, Calif.
Filed October 6, 1919. Serial No. 123,504. PUBLISHED DECEMBER 14, 1920.

141,693. PHONOGRAPH RECORD-DISKS. TALKING PHOTO CORPORATION, New York, N. Y.
Filed August 9, 1920. Serial No. 135,956. PUBLISHED DECEMBER 7, 1920.

141,694. CERTAIN NAMED CONSTRUCTION MATERIALS. TERRASIT INDUSTRIE G. M. B. H., Berlin-Halensee, Germany.
Filed May 3, 1920. Serial No. 131,993. PUBLISHED DECEMBER 28, 1920.

141,695. CANNED FISH. THLINKET PACKING CORPORATION, Portland, Oreg.
Filed August 24, 1920. Serial No. 136,444. PUBLISHED DECEMBER 7, 1920.

141,696. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,007. PUBLISHED DECEMBER 7, 1920.

141,697. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,008. PUBLISHED DECEMBER 7, 1920.

141,698. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,009. PUBLISHED DECEMBER 7, 1920.

141,699. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,011. PUBLISHED DECEMBER 7, 1920.

141,700. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,012. PUBLISHED DECEMBER 7, 1920.

141,701. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,013. PUBLISHED DECEMBER 7, 1920.

141,702. DERIVATIVES OF CRUDE PETROLEUM—NAMELY, LUBRICATING-OILS, GASOLENE, MINERAL WAX, LUBRICATING-GREASE, AND KEROSENE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed September 9, 1920. Serial No. 137,014. PUBLISHED DECEMBER 7, 1920.

141,703. RED AND WHITE WINES AND SWEETENED WINES. SHINJIRO TORII, Osaka, Japan.
Filed October 8, 1919. Serial No. 123,678. PUBLISHED DECEMBER 14, 1920.

141,704. CERTAIN NAMED TOILET AND MEDICINAL PREPARATION. ULTRA REFINED CRUDE PRODUCTS COMPANY, Chicago, Ill.
Filed July 31, 1920. Serial No. 135,674. PUBLISHED DECEMBER 28, 1920.

141,705. EDIBLE VEGETABLE OIL. UNITED VEGETABLE OIL REFINERY, INC., New York and Brooklyn, N. Y.
Filed October 5, 1920. Serial No. 137,976. PUBLISHED DECEMBER 28, 1820.

141,706. CANDY. UNITED RETAIL CANDY STORES, INC., New York, N. Y.
Filed September 21, 1920. Serial No. 137,433. PUBLISHED DECEMBER 7, 1920.

141,707. CANDY. UNITED RETAIL CANDY STORES, INC., New York, N. Y.
Filed September 27, 1920. Serial No. 137,687. PUBLISHED DECEMBER 7, 1920.

141,708. CANDY. VAL. BLATZ JR. CANDY CO., Milwaukee, Wis.
Filed October 7, 1920. Serial No. 138,075. PUBLISHED DECEMBER 28, 1920.

141,709. PISTON-RINGS. VICTORY HAMMERED PISTON RING COMPANY, Newark, N. J.
Filed January 10, 1920. Serial No. 127,021. PUBLISHED JULY 20, 1920.

141,710. CANDY. VOGAN CANDY COMPANY, Portland, Oreg.
Filed October 5, 1920. Serial No. 137,981. PUBLISHED DECEMBER 28, 1920.

141,711. CERTAIN NAMED PIECE GOODS, HANDKERCHIEFS, TABLE-CLOTHS, COUNTERPANES, AND QUILTS. JOHN HENRY WALKER, Ravensthorpe, near Dewsbury, England.
Filed April 28, 1919. Serial No. 117,961. PUBLISHED DECEMBER 14, 1920.

141,712. CERTAIN NAMED PIECE GOODS, HANDKERCHIEFS, TABLE-CLOTHS, COUNTERPANES, AND QUILTS. JOHN HENRY WALKER, Ravensthorpe, near Dewsbury, England.
Filed April 28, 1919. Serial No. 117,963. PUBLISHED DECEMBER 14, 1920.

141,713. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed June 5, 1920. Serial No. 133,342. PUBLISHED DECEMBER 28, 1920.

141,714. CERTAIN NAMED PAPER. WAYAGAMACK PULP & PAPER CO., LIMITED, Three Rivers, Quebec, Canada.
Filed October 3, 1919. Serial No. 123,410. PUBLISHED DECEMBER 28, 1920.

141,715. TALKING-MACHINES AND TALKING-MACHINE CABINETS. JACOB H. WEBER, Brooklyn, N. Y.
Filed March 3, 1920. Serial No. 129,200. PUBLISHED DECEMBER 28, 1920.

141,716. CERTAIN NAMED MEDICINAL PREPARATIONS. MICHAEL WEINSHENKER, Baltimore, Md.
Filed October 2, 1919. Serial No. 123,382. PUBLISHED DECEMBER 14, 1920.

141,717. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. WESTERN DRY GOODS CO., Seattle, Wash.
Filed August 24, 1920. Serial No. 136,451. PUBLISHED DECEMBER 7, 1920.

141,718. CANNED TUNA FISH. WHITE STAR CANNING CO., East San Pedro, Calif.
Filed October 20, 1920. Serial No. 138,615. PUBLISHED DECEMBER 28, 1920.

141,719. FLASHLIGHTS AND PARTS THEREOF. WILLIAMSON ELECTRIC COMPANY, INC., Brooklyn, N. Y.
Filed October 25, 1920. Serial No. 138,799. PUBLISHED DECEMBER 7, 1920.

141,720. TOILET-PAPER, PAPER NAPKINS, AND PAPER TOWELS. WORTENDYKE MANUFACTURING CO., Richmond, Va.
Filed October 29, 1920. Serial No. 138,969. PUBLISHED DECEMBER 28, 1920.

141,721. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. ANDREW ALPHONS WUEST, Cincinnati, Ohio.
Filed August 24, 1920. Serial No. 136,452. PUBLISHED DECEMBER 7, 1920.

141,722. CANOE, ROWBOATS, YACHTS, SKIFFS, AND DINGIES. ADOLPHE YELLE, Hull, Quebec, Canada.
Filed August 6, 1920. Serial No. 135,880. PUBLISHED DECEMBER 7, 1920.

141,821. SHOE-LACES. M. M. RHODES & SONS CO., Taunton, Mass.
Filed April 15, 1919. Serial No. 117,504. PUBLISHED SEPTEMBER 16, 1919.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

APRIL 26, 1921.

141,723. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALLEN COMPANY, New Bedford, Mass. Filed Nov. 24, 1920. Serial No. 140,086.

NEW BEDFORD, MASS. ALLEN COMPANY.

Particular description of goods.—Section-Beams, Section-Beam Heads, Loom-Beams, Loom-Beam Heads, Warp-Rolls, and Mill Supplies Consisting of Mechanics' Benches, Cloth-Trimmers' Benches, Fixers' Benches, and Picker Sticks.
Claims use since on or about Nov. 1, 1918.

141,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMBROSIA CHOCOLATE CREAM CO., Chicago, Ill. Filed Oct. 13, 1920. Serial No. 138,248.

BELVOIR

Particular description of goods.—Candy.
Claims use since September, 1913.

141,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARKADIA MEDICINE COMPANY, New York, N. Y. Filed June 10, 1920. Serial No. 133,512.

CERA-DENTO

Particular description of goods.—A Medicinal Preparation for the Treatment of Toothache.
Claims use since June 20, 1919.

141,726. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE ARLINGTON MANUFACTURING COMPANY, Canton, Ohio. Filed June 25, 1917. Serial No. 104,662.

RICHTONE

Particular description of goods.—Ready-Mixed Paints for Plastered Walls and Ceilings.
Claims use since October, 1910.

141,727. (CLASS 37. PAPER AND STATIONERY.) ASHBY PRINTING COMPANY, Erie, Pa. Filed Oct. 28, 1920. Serial No. 138,892.

MONONGAHELA BOND

Particular description of goods.—Paper Suitable for Use in Printing and Writing.
Claims use since 1910.

141,728. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AUBURN IGNITION MFG. CO., Richmond, Ind. Filed Jan. 3, 1921. Serial No. 141,740.

AUBURN

Particular description of goods.—Spark-Plugs.
Claims use since 1910.

141,729. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AVAILABLE TRUCK COMPANY, Chicago, Ill. Filed July 10, 1920. Serial No. 134,768.

Available Trucks

Particular description of goods.—Automobile-Trucks.
Claims use since May 1, 1920.

141,730. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE BAER & WILDE COMPANY, Attleboro, Mass. Filed Jan. 22, 1921. Serial No. 142,584.



Particular description of goods.—Cuff-Buttons.
Claims use since January, 1914.

141,731. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) F. J. BATES, Asheville, N. C. Filed June 18, 1919. Serial No. 119,731.

ALMETL

Particular description of goods.—Solder.
Claims use since May 14, 1919.

141,732. (CLASS 39. CLOTHING.) BAY STATE CORSET COMPANY, Springfield, Mass. Filed Nov. 8, 1920. Serial No. 139,345.

EVER-STA

Particular description of goods.—Articles for Women's Dress—Namely, Corsets.
Claims use since Nov. 15, 1910.

141,733. (CLASS 39. CLOTHING.) THE BEACON FALLS RUBBER SHOE CO., Beacon Falls, Conn. Filed Dec. 2, 1919. Serial No. 125,487.

ARCHEASE

Particular description of goods.—Canvas Rubber-Soled Shoes.
Claims use since Nov. 17, 1919.

141,734. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRAME DRUG COMPANY, INC., Northwilkesboro, N. C. Filed Dec. 15, 1920. Serial No. 140,982.

Pine-Mentha

Particular description of goods.—A Remedy for Colds, Coughs; Bronchial, Spasmodic Croup; Winter-Colds, and All Diseases of the Air-Passages.
Claims use since about September, 1918.

141,735. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CAMPBELL ELECTRIC CO., Lynn, Mass. Filed June 10, 1920. Serial No. 133,520.

TRADE MARK
Clinx

Particular description of goods.—X-Ray Tables and Parts Thereof.
Claims use since Feb. 9, 1920.

141,736. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHAMBERLAIN-HABER CHEMICAL CO., Cleveland, Ohio. Filed Dec. 5, 1919. Serial No. 125,605.

NIP-ON

Particular description of goods.—Insect-Destroying Composition.
Claims use since on or about Oct. 1, 1912.

141,737. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed Dec. 7, 1920. Serial No. 140,710.

CHICAGO

Particular description of goods.—Pneumatic Riveters, Chucks, Flue-Cutters, Water-Lift Valves, Automatic Oilers, Sand-Hammers, Bench-Rammers, Valveless Hand-Drills, Rock-Drill Mountings and Appurtenances, Column Mine-Hoists, Coal-Drills, Auxiliary-Valve Drills and Mountings, Rotating Hand-Drills, Air-Feed Sand-Sifters, Pipe-Bending Machines, Rock-Drills, Tripods, Screw-Columns, Quarry-Bars, Steam-Driven Compressors, Pneumatic Compressors, Stoping-Drills, Dust-Allayer Water-Sprays, Slogger-Drills, Gattling Drills, Stopers, Sinkers, Geared Hoists, and Pneumatic Hammers.
Claims use since June, 1907.

141,738. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND PNEUMATIC TOOL COMPANY, Cleveland, Ohio. Filed June 28, 1920. Serial No. 134,300.

CLEVELAND

Particular description of goods.—Pneumatic Tools and Compressed-Air Machinery, Consisting of Pneumatic Hammers, Pneumatic Drills, Rock-Drills, Sand-Rammers, Pneumatic Holder-Ons, Pneumatic Grinders, Rivet-Sets Used with Pneumatic Riveting-Hammers, Manifolds, Hose-Clamp Tools, Rock-Drill-Sharpening Machines, Chisels Used with Pneumatic Chipping-Hammers, Blow-Guns, Angle-Gears Consisting of Attachments for Pneumatic Drills.
Claims use since about 1901.

141,739. (CLASS 11. INKS AND INKING MATERIALS.) THE COLUMBIA CARBON COMPANY, Dayton, Ohio. Filed Sept. 28, 1920. Serial No. 137,752.

MINERAL WAX

Particular description of goods.—Carbon-Sheets for Duplicating or Transferring Impressions.
Claims use since about Mar. 1, 1906.

141,740. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CRANE COMPANY, Chicago, Ill. Filed June 14, 1918. Serial No. 111,563.

STA-TITE

Particular description of goods.—Steam-Blower Valves.
Claims use since Apr. 1, 1918.

141,741. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J. Filed Oct. 16, 1920. Serial No. 138,376.

NAPOLITAN

Particular description of goods.—A Flux for Welding Sheet-Aluminum.
Claims use since August, 1918.

141,742. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) EARLY FOUNDRY CO., Dickson City, Pa. Filed Jan. 5, 1921. Serial No. 141,859.

DICKSON

Particular description of goods.—Coal-Ranges, Coal and Gas Combination Ranges, and Coal and Wood Heating-Stoves.
Claims use since Sept. 1, 1909.

141,743. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ERICSSON MANUFACTURING COMPANY, Tonawanda, N. Y. Filed Dec. 23, 1920. Serial No. 141,457.

THE BERLING MAGNETO

Particular description of goods.—Magnetos.
Claims use since about Dec. 28, 1912.

141,744. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLEXIBLE STEEL LACING COMPANY, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 141,255.

FLEXIBLE

Particular description of goods.—Hinged Belt-Fasteners.
Claims use since 1907.

141,745. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FLORENCE MANUFACTURING COMPANY, Northampton, Mass. Filed June 26, 1920. Serial No. 134,248.

Nevershed

Particular description of goods.—Lather-Brushes.
Claims use since 1907.

141,746. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOSEPH J. FREADRICH, St. Louis, Mo. Filed Sept. 8, 1919. Serial No. 122,427.

CENTERBACK

Particular description of goods.—Leather Belting.
Claims use since December, 1907.

141,747. (CLASS 15. OILS AND GREASES.) GENERAL NAVAL STORES CO., New York, N. Y. Filed June 3, 1920. Serial No. 133,210.

G.N.S. PINE OIL No. 4

Particular description of goods.—Pine-Oil Used in the Flotation Process of Mineral Separation.
Claims use since June 23, 1915.

141,748. (CLASS 15. OILS AND GREASES.) GENERAL NAVAL STORES CO., New York, N. Y. Filed June 3, 1920. Serial No. 133,211.

G.N.S. PINE OIL No. 5

Particular description of goods.—Steam-Distilled Pine-Oil Used in the Flotation Process of Mineral Separation.
Claims use since May 10, 1915.

141,749. (CLASS 15. OILS AND GREASES.) GENERAL NAVAL STORES CO., New York, N. Y. Filed June 3, 1920. Serial No. 133,212.

G.N.S. PINE TAR OIL No. 8

Particular description of goods.—Pine-Tar Oil Used in the Flotation Process of Mineral Separation.
Claims use since Nov. 30, 1915.

141,750. (CLASS 15. OILS AND GREASES.) GENERAL NAVAL STORES CO., New York, N. Y. Filed June 3, 1920. Serial No. 133,213.

G.N.S. HARDWOOD OIL No. 17

Particular description of goods.—Hard-Wood Oil Used in the Flotation Process of Mineral Separation.
Claims use since Apr. 28, 1916.

141,751. (CLASS 15. OILS AND GREASES.) GENERAL NAVAL STORES CO., New York, N. Y. Filed June 3, 1920. Serial No. 133,214.

G.N.S. FLOTATION OIL No. 22

Particular description of goods.—Flotation-Oil Used in the Flotation Process of Mineral Separation.
Claims use since Sept. 28, 1915.

141,752. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GOODMAN MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 15, 1920. Serial No. 139,668.

GOODMAN

Particular description of goods.—Coal-Cutting Machines and Coal and Ore Conveying Machinery.
Claims use since Jan. 1, 1901.

141,753. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. O. W. GREEN & Dr. L. O. GREEN, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 139,030.

DR. GREEN'S ANTISEPTIC OINTMENT

Particular description of goods.—Antiseptic Ointment.
Claims use since the 1st day of October, 1919.

141,754. (CLASS 39. CLOTHING.) ELENORE GROSSMAN, New York, N. Y. Filed Nov. 16, 1920. Serial No. 139,709.

Grossman

Particular description of goods.—Ladies' Wearing-Apparel—Namely, Gowns, Blouses, Negligées, Sweaters, Petticoats, Scarfs, and Sport-Clothes.
Claims use since Nov. 6, 1919.

141,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORDONVILLE MILLING COMPANY, Gordonville, Mo. Filed Jan. 8, 1921. Serial No. 141,973.

OUR SPECIAL

Particular description of goods.—Wheat-Flour.
Claims use since December, 1910.

141,756. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARLEY-DAVIDSON MOTOR CO., Milwaukee, Wis. Filed July 24, 1920. Serial No. 135,368.

HARLEY-DAVIDSON

The trade-mark consists of the words "Harley-Davidson."
Particular description of goods.—Air-Drying Enamel, Striping-Enamel, Liquid Shellac, and White Transparent Copal Varnish.
Claims use since Dec. 1, 1911.

141,757. (CLASS 39. CLOTHING.) HARLEY-DAVIDSON MOTOR CO., Milwaukee, Wis. Filed July 24, 1920. Serial No. 135,371.

HARLEY-DAVIDSON

Particular description of goods.—Leather Gloves, Mittens, Riding-Suits, Sweaters, Jerseys, Negligée Shirts, Caps, Helmets, Sweater-Coats, and Jackets.
Claims use since Dec. 15, 1915.

141,758. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HENKEL-CLAUSS CO., Fremont, Ohio. Filed June 25, 1920. Serial No. 134,189.

HENKEL

Particular description of goods.—Hand Implements for Cutting, Carving, Paring, Trimming, Shearing, &c.
Claims use since 1905.

141,759. (CLASS 37. PAPER AND STATIONERY.) C. HOWARD HUNT PEN COMPANY, Camden, N. J. Filed Jan. 4, 1921. Serial No. 141,836.

ROUND POINTED

Particular description of goods.—Metallic Pen-Points.
Claims use since on or about June 26, 1901.

141,760. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 14, 1920. Serial No. 127,124.

PLYMOUTH

Particular description of goods.—Cocoa.
Claims use since 1917.

141,761. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Jan. 14, 1920. Serial No. 127,126.

SUPERIOR

Particular description of goods.—Cocoa.
Claims use since 1901.

141,762. (CLASS 39. CLOTHING.) IVY CORSET COMPANY, Worcester, Mass. Filed Apr. 13, 1917. Serial No. 102,945.

IVY CORSET SHOP

Particular description of goods.—Corsets.
Claims use since Feb. 12, 1917.

141,763. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JUSTRITE MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 1, 1920. Serial No. 140,498.

JUSTRITE

Particular description of goods.—Oil-Cups and Oil-Feeding Devices.
Claims use since Mar. 15, 1919.

141,764. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAMSON & GOODNOW MANUFACTURING COMPANY, Shelburne Falls, Mass. Filed Oct. 23, 1920. Serial No. 138,719.

FRANKLIN CUTLERY CO.

Particular description of goods.—Butcher-Knives, Sticking-Knives, and Putty-Knives.
Claims use since June, 1885.

141,765. (CLASS 39. CLOTHING.) LAX & BURGHEIMER CORP., New York, N. Y. Filed Nov. 13, 1920. Serial No. 139,619.

Hudson Mills

Particular description of goods.—Hosiery and Knitted Underwear in One and Two Piece Garments for Men, Women, and Children.
Claims use since Dec. 30, 1902.

141,766. (CLASS 39. CLOTHING.) LEBEIS HOSIERY COMPANY, Chippewa Falls, Wis. Filed May 17, 1920. Serial No. 132,542.

Evenknit

Particular description of goods.—Hosiery.
Claims use since Dec. 10, 1919.

141,767. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUMEN BEARING COMPANY, Buffalo, N. Y. Filed Dec. 20, 1920. Serial No. 141,315.

MACHINEBRONZE

Particular description of goods.—Cored and Solid Bronze Bars.
Claims use since 1913.

141,768. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MCCORD MANUFACTURING COMPANY, INC., Detroit, Mich. Filed Nov. 9, 1920. Serial No. 139,408.

Mc CORD

Particular description of goods.—Force Feed Lubricators.
Claims use since the early part of 1905.

141,769. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MCCORD MANUFACTURING COMPANY, INC., Detroit, Mich. Filed Nov. 9, 1920. Serial No. 139,410.

McCord

Particular description of goods.—Metal-Shim Stock.
Claims use since June 1, 1919.

141,770. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MCQUAY NORRIS MFG. CO., St. Louis, Mo. Filed Nov. 17, 1920. Serial No. 139,746.

LEAK-PROOF

Particular description of goods.—Engine, Automobile, Piston, and Compressor Rings Made of Metal.
Claims use since December, 1910.

141,771. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MANASSEH LEVY, New York, N. Y. Filed June 5, 1920. Serial No. 133,319.

JEANNERET

Particular description of goods.—Small Imported Watches.
Claims use since on or about Jan. 1, 1914.

141,772. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MARION STEAM SHOVEL CO., Marion, Ohio. Filed July 28, 1920. Serial No. 135,515.

MARION

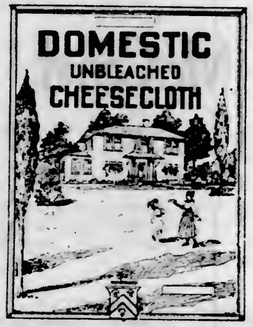
Particular description of goods.—Steam-Shovels, Gasolene-Shovels, Dipper-Dredges, Hydraulic Dredges, Elevator-Dredges, Railroad-Ditches, Drag-Line Excavators, Orange-Peel Excavators, Clam-Shell Excavators, Trench-Digging Machines, Ballast-Unloaders, and Log-Loaders.
Claims use since Jan. 1, 1902.

141,773. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Aug. 16, 1920. Serial No. 136,164.

WEARWELL

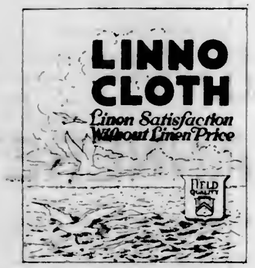
Particular description of goods.—Sheets, Pillow-Cases, Bolster-Cases, Sheeting and Pillow-Casing, Pillow-Tubing, Bedspreads, Comforters, and Mattress-Protectors.
Claims use since January, 1900.

141,774. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,259.



Particular description of goods.—Cheese-Cloth in the Piece.
Claims use since April, 1916.

141,775. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,264.



Particular description of goods.—Shrunk-Finish and Linen-Finish Sheeting.
Claims use since April, 1918.

141,776. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARSHALL OIL COMPANY OF IOWA, Marshalltown, Iowa. Filed Oct. 30, 1920. Serial No. 138,994.

TUNGSTEN

Particular description of goods.—Spark-Plugs.
Claims use since January, 1913.

141,777. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILAN FRANCIS PRATT, Rochester, N. Y. Filed Nov. 6, 1920. Serial No. 139,300.



Particular description of goods.—Proprietary Medicine for the Nerves and Blood.
Claims use since Dec. 1, 1918.

141,778. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MILLBROOK WOOLEN MILLS, New York, N. Y. Filed Dec. 22, 1920. Serial No. 141,428.

RUSSIAN DUVETYN

Particular description of goods.—Woolen and Cotton Piece Goods.
Claims use since Nov. 15, 1914.

141,779. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MILLBROOK WOOLEN MILLS, New York, N. Y. Filed Dec. 22, 1920. Serial No. 141,429.

ORKNEY ISLAND CHINCHILLA

Particular description of goods.—Woolen and Cotton Piece Goods.
Claims use since Jan. 9, 1912.

141,780. (CLASS 39. CLOTHING.) SOLOMON S. MILLER, Reading, Pa. Filed Nov. 27, 1920. Serial No. 140,338.

MILLER

Particular description of goods.—Ladies', Misses', and Children's Hosiery.
Claims use since July, 1913.

141,781. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MILLS & GIBB CORP., New York, N. Y. Filed Oct. 5, 1920. Serial No. 137,951.

Lyklinen

Particular description of goods.—Cotton Piece Goods.
Claims use since 1916.

141,782. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. MILES MEDICAL COMPANY, Elkhart, Ind. Filed June 19, 1920. Serial No. 133,929.

NERVINE

Particular description of goods.—A Remedy for the Treatment of the Blood, Heart, Brain, and Nervous System.
Claims use since 1893.

141,783. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Jan. 14, 1920. Serial No. 127,144.

YUCATAN

Particular description of goods.—Leather.
Claims use since 1914.

141,784. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 142,983.

NICKEL

Particular description of goods.—Babbitt Metal.
Claims use since during the year 1885.

141,785. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 142,984.

ARMATURE

Particular description of goods.—Babbitt Metal.
Claims use since 1900.

141,786. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 142,986.

IMPROVED

Particular description of goods.—Babbitt Metal.
Claims use since 1900.

141,787. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MORE-JONES BRASS & METAL COMPANY, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 142,987.

EXTRA

Particular description of goods.—Babbitt Metal.
Claims use since during the year 1900.

141,788. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 139,592.

THE VOGUE

Particular description of goods.—Hair-Nets.
Claims use since Nov. 1, 1918.

141,789. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NEWARK VARNISH WORKS, Newark, N. J. Filed Sept. 26, 1918. Serial No. 113,430.



Particular description of goods.—Varnish.
Claims use since August, 1918.

141,790. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NEWMAN TIRE & RUBBER CO. INC., New York, N. Y. Filed May 16, 1919. Serial No. 118,570.

Gold Medal

Particular description of goods.—Rubber Tires and Tubes.
Claims use since May 1, 1919.

141,791. (CLASS 15. OILS AND GREASES.) NEW YORK & NEW JERSEY LUBRICANT CO., New York, N. Y. Filed Dec. 6, 1920. Serial No. 140,669.

NON-FLUID OIL

Particular description of goods.—Lubricating Oils, Greases, and Compounds.
Claims use since 1896.

141,792. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NICHTHAUSER & LEVY, Brooklyn, N. Y. Filed Feb. 24, 1920. Serial No. 128,853.

SIFTWELL

Particular description of goods.—Ash-Sifters.
Claims use since about Feb. 1, 1905.

141,793. (CLASS 39. CLOTHING.) NOTASEME HOSIERY COMPANY, Philadelphia, Pa. Filed Dec. 1, 1920. Serial No. 140,501.

NOTASEME

Particular description of goods.—Hosiery.
Claims use since about Oct. 1, 1907.

141,794. (CLASS 43. THREAD AND YARN.) F. A. PATRICK & CO., Duluth, Minn. Filed Jan. 5, 1921. Serial No. 141,881.

Patrick
DULUTH

Particular description of goods.—Embroidery Cotton, Silk, and Linen, Sewing-Silks, Knitting and Crotchet Yarn, Silk, Cotton, and Linen Thread.
Claims use since Apr. 2, 1910.

141,795. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE PEERLESS BREAD MACHINE COMPANY, Sidney, Ohio. Filed Aug. 16, 1920. Serial No. 136,165.

THE PEERLESS MFD. BY THE PEERLESS BREAD MACHINE CO.

Particular description of goods.—Flour-Milling and Bakers' Machinery, Specifically Flour-Sifters, Dough-Mixers, Loaf-Molders, Dough-Proofers, and Cake-Mixers.
Claims use since July 1, 1917.

141,796. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. C. PENN, INCORPORATED, Newark, N. J., and New York, N. Y., assignor to The Greist Manufacturing Company, a Corporation of Connecticut. Filed Nov. 30, 1920. Serial No. 140,470.

PENN

Particular description of goods.—Razors and Razor-Blades.
Claims use since Aug. 15, 1914.

141,797. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. C. PENN, INCORPORATED, Newark, N. J., and New York, N. Y., assignor to The Greist Manufacturing Company, a Corporation of Connecticut. Filed Nov. 30, 1920. Serial No. 140,471.

PENN
DOUBLE BEVEL BLADES

Particular description of goods.—Razor-blades.
Claims use since Oct. 15, 1918.

141,798. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSIAH H. CROCKER, Cambridge, Mass. Filed Dec. 3, 1920. Serial No. 140,573.

WAX

Particular description of goods.—Stove-Polishes.
Claims use since Dec. 1, 1918.

141,799. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRATT FOOD CO., Philadelphia, Pa. Filed Nov. 5, 1920. Serial No. 139,219.

Pratts

Particular description of goods.—Foods for Horses, Cattle, Hogs, Sheep, Dogs, and All Live Stock, Also Chickens, Ducks, Turkeys, Geese, Pigeons, and the like, Including the Following Preparations: Buttermilk Baby-Chick Food, Dog-Biscuits, Calf-Meal, Milk-Egg Mash, Buttermilk Growing-Mash.
Claims use since the year 1906.

141,800. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif. Filed Jan. 5, 1921. Serial No. 141,871.

SANTA CLARA

Particular description of goods.—Canned Apricots, Pears, Peaches, Cherries, Plums, Grapes, Blackberries, Tomatoes, and Asparagus.
Claims use since June 28, 1909.

141,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif. Filed Jan. 5, 1921. Serial No. 141,872.

LA GRANGE

Particular description of goods.—Canned Apricots, Pears, Peaches, Cherries, Plums, Grapes, Tomatoes, and Asparagus.
Claims use since about Nov. 2, 1908.

141,802. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) J. E. RHOADS & SONS, Philadelphia, Pa., and Wilmington, Del. Filed Jan. 31, 1921. Serial No. 143,014.

WATERSHED
RHOADS

Particular description of goods.—Flat Leather Belting.
Claims use since Oct. 2, 1907.

141,803. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed May 25, 1917. Serial No. 104,083.

SIMPLEX

Particular description of goods.—Blouses, Flannel and Work Shirts, Men's and Boys' Overalls, Pants, Jackets, and One-Piece Working-Garments, and Women's One-Piece and Two-Piece Overalls.
Claims use since May 15, 1917.

141,804. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) RUSTLESS RULE CO. INC., Buffalo, N. Y. Filed Dec. 23, 1920. Serial No. 141,468.

THE "RUSTLESS" RULE

Particular description of goods.—Rules.
Claims use since about Nov. 1, 1911.

141,805. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE F. SCHLESINGER, New York, N. Y. Filed May 13, 1919. Serial No. 118,454.

SUCROL

Particular description of goods.—Aromatized Castor-Oil.
Claims use since Jan. 1, 1915.

141,806. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE SERVICE RECORDER COMPANY, Cleveland, Ohio. Filed Jan. 8, 1921. Serial No. 141,998.

THE SERVIS RECORDER

Particular description of goods.—Instruments for Recording the Periods of Operation and of Rest of Machinery and Vehicles.
Claims use since about June 1, 1912.

141,807. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 15, 1920. Serial No. 138,354.

SIMMONS

Particular description of goods.—Paint-Brushes, Varnish-Brushes, Scrub-Brushes, Whitewash-Brushes, Stucco-Brushes, Window-Brushes, Paper-Hangers' Brushes, Plasterers' Brushes, Calcimine-Brushes, Paste-Brushes, Glue-Brushes, Cotton Mops.
Claims use since Dec. 9, 1915.

141,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SKINNER MANUFACTURING COMPANY, Omaha, Nebr. Filed Dec. 7, 1920. Serial No. 140,754.

SKINNER'S

Particular description of goods.—Spaghetti, Cut Spaghetti, Macaroni, Cut Macaroni, Vermicelli, Twisted Vermicelli, and Egg-Noodles.
Claims use since 1911.

141,809. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SMITH, HOGG & CO., New York, N. Y. Filed Sept. 28, 1920. Serial No. 137,716.

CASCO

Particular description of goods.—Cotton Goods in the Piece.
Claims use since June 1, 1910.

141,810. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE STARR PIANO COMPANY, Richmond, Ind. Filed Jan. 29, 1921. Serial No. 142,942.

Starr

Particular description of goods.—Phonographs and Records for Phonographs.
Claims use since Jan. 1, 1907.

141,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. LOUIS INDEPENDENT PACKING COMPANY, St. Louis, Mo. Filed July 8, 1920. Serial No. 134,729.

JUNIATA

Particular description of goods.—Oleomargarin.
Claims use since Feb. 1, 1919.

141,812. (CLASS 39. CLOTHING.) TAUNTON RUBBER CO. INC., Taunton, Mass. Filed June 5, 1920. Serial No. 133,336.

COLUMBIA

Particular description of goods.—Rubber Heels.
Claims use since Jan. 20, 1920.

141,813. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Jan. 10, 1921. Serial No. 142,051.

Taylor

Particular description of goods. — Thermometers, Barometers, Compasses, Hydrometers, Hygrometers, Anemometers, and Urinalysis Instruments.
Claims use since February, 1912.

141,814. (CLASS 2. RECEPTACLES.) E. C. TECKTONIUS MANUFACTURING COMPANY, Racine, Wis. Filed Sept. 30, 1920. Serial No. 137,792.

TECKTONIUS

E.C. TECKTONIUS MANUFACTURING CO. ECTMCo RACINE, WIS., U.S.A.

Silo.

Particular description of goods.—Silos.
Claims use since about June 11, 1915.

141,815. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM TOLAND, Greenville, S. C. Filed Oct. 9, 1920. Serial No. 138,149.

Toland's King of Smallpox

Particular description of goods.—A Medicine Used in the Treatment of Smallpox.
Claims use since Feb. 24, 1914.

141,816. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WARWICK NOVELTIES INC., Pawtucket, R. I. Filed Jan. 26, 1921. Serial No. 142,820.

WARWICK

Particular description of goods.—Jewelry for Personal Adornment—Namely, Collar-Pins and Scarf-Pins Which are Made of or Plated with Precious Metal.
Claims use since November, 1919.

141,817. (CLASS 39. CLOTHING.) WEINGARTEN BROS., Inc., New York, N. Y. Filed Nov. 27, 1920. Serial No. 140,362.

Stylish Stout

Particular description of goods.—Corsets, Brassières, and Corset-Covers.
Claims use since May, 1917.

141,818. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE J. G. WILSON CORPORATION, Norfolk, Va. Filed June 27, 1919. Serial No. 120,021.

DIFFUSELITE

Particular description of goods.—Louver or Venetian Blinds.
Claims use since January, 1919.

141,819. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE WOODWIND COMPANY, New York, N. Y. Filed Dec. 29, 1920. Serial No. 141,657.

"STEEL EBONITE"

Particular description of goods.—Mouthpieces for Clarinets and Saxophones.
Claims use since about July, 1910.

141,820. (CLASS 39. CLOTHING.) WYMAN PARTRIDGE & Co., Minneapolis, Minn. Filed Nov. 22, 1920. Serial No. 140,003.

NEWPORT

Particular description of goods.—Men's, Women's, and Children's Silk, Cotton, and Wool Hosiery and Men's, Women's, and Children's Silk and Leather Gloves.
Claims use since on or about Aug. 15, 1907.

TRADE-MARK REGISTRATIONS CANCELED.

115,264. ELECTRIC SEARCHLIGHTS. WILLIAMS M'FG. Co., Santa Ana, Calif.
Registered January 30, 1917. Canceled March 2, 1921.

116,386. A PREPARATION FOR STIMULATING THE GROWTH OF EYEBROWS AND EYELASHES. THOMAS L. WILLIAMS, Chicago, Ill.
Registered April 24, 1917. Canceled March 2, 1921.

119,456. OLEOMARGARIN. THE A. H. KUHLEMANN COMPANY, Baltimore, Md.
Registered November 20, 1917. Canceled February 19, 1921.

124,441. ARTIFICIAL LEATHER. L. C. CHASE & COMPANY, Boston, Mass.
Registered February 18, 1919. Canceled March 5, 1921.

127,982. HAIR-NETS. POIRIER AND LINDEMAN CO., New York, N. Y.
Registered December 16, 1919. Canceled March 2, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE HACKETT, SMITH, AND SOUTHALL.

Decided April 25, 1921.

1. PATENTS—EXTENSION OF RIGHTS OF PRIORITY—NOLAN ACT CONSTRUED.
The rights of priority provided by section 1 of the act of March 3, 1921, will be extended up to the extreme limits set therein in favor of citizens of the United States and citizens or subjects of foreign countries which extend rights of priority to the limits set in the Berne Convention or to the limits set by Great Britain in ratifying that Convention.

2. SAME—EXTENSIONS OF TIME FOR PAYING FEES—NOLAN ACT CONSTRUED.
Since under section 2 of the act of March 3, 1921, no extensions may confer privileges on the citizens or subjects of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States, fees past due must be paid or actions required to be done in the past must be performed at such time, on or before March 3, 1922, that the period between the due date and the date when such fee is actually paid or action is actually taken is not longer than the maximum period allowed by the laws of such foreign country to citizens of the United States for similar actions.

3. SAME—NOLAN ACT—PROOF OF FOREIGN LAW—PROOF NOT NECESSARY IN EACH APPLICATION.
For purposes of administration of the Nolan Act, (act of March 3, 1921,) as it applies to foreign applicants, the privileges conferred on citizens of the United States by the laws of a foreign country may be proved by the affidavit of an expert in such law or by a statement from the competent authorities of that country. When the law is once proved, it will be sufficient for all applications filed by citizens or subjects of that country.

4. SAME—SAME—PROOF OF BRITISH LAWS AND PRACTICE INSUFFICIENT.
Proof of the laws and practice of Great Britain alleged to meet the conditions of the Nolan Act as to reciprocity examined and found insufficient.

ON PETITION.

Mr. H. R. Kerslake for the applicants.

ROBERTSON, *Commissioner:*

This case is before me on a petition from the Examiner's action refusing to allow the application because it was patented in Great Britain on an application filed more than a year prior to the filing of the application in this country.

Relief from the bar of applicant's British patent must be found, if at all, in section 1 of the act of March 3, 1921.

As pointed out in the case of *ex parte Rechnitzner*, (285 O. G., 572,) the benefits of the act of March 3, 1921, are to be accorded to citizens or subjects of foreign countries which grant substantially reciprocal privileges to citizens of the United States. The benefits of the act thus being made conditional, it is necessary to inquire whether the conditions are fulfilled by the British laws and practice. The petitioner has offered proof tending to establish this fact. Before discussing the sufficiency of the proof it is important to determine to what point or points the proof must extend.

Section 1 of the act provides—

that the rights of priority provided by section 4887 of the Revised Statutes, for the filing of applications for patent for inventions and designs, which rights had not expired on the 1st day of August, 1914, or which rights have arisen since the 1st day of August, 1914, shall be, and the same are hereby, extended until the expiration of a period of six months from the passage of this act in favor of the citizens of the United States or citizens or subjects of all countries which have extended, or which now extend, or which within said period of six months shall extend substantially reciprocal privileges to citizens of the United States, and such extension shall apply to applications upon which patents have been granted, as well as to applications now pending or filed within the period herein. * * *

This section extends the rights of priority provided by section 4887 of the Revised Statutes from one year in the case of patents for inventions and four months in the case of designs, which rights had not expired on August 1, 1914, or have arisen since that date, until September 3, 1921, conditional upon the existence of substantially reciprocal privileges. The privilege contemplated by this section is the privilege of filing within the extended time limits without losing the benefits of priority based upon the first filed application. Upon the information now at hand I am of the opinion that a substantially reciprocal privilege would be found in a foreign law which extended these rights of priority from the date fixed by this section up to the limits set in the Berne Convention or up to the limits set by the reservation made by Great Britain in ratifying that Convention. Hence, unless and until further important information comes to hand, I am prepared to extend the provisions of this section to the extreme limits of time set forth therein upon proof that a foreign law extends rights of priority to the limits stated above.

Section 2 of the act provides—

that the time now fixed by law for the payment of any fee or for the taking of any action with respect to an appli-

cation for patent, which time had not expired on August 1, 1914, or which commenced after August 1, 1914, is hereby extended until the expiration of one year from the passage of this act, without the payment of extension fees or other penalty in favor of the citizens or subjects of countries which have extended, now extend, or shall extend during a period of one year from the passage of this act substantially reciprocal privileges to citizens of the United States, provided that no extension herein shall confer such privileges on the citizens or subjects of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States, but nothing in this act shall give any right to reopen interference proceedings where final hearing before the Examiner of Interferences has taken place.

This section applies only to pending applications and contemplates, for the most part, the payment of final fees, the taking of appeals, the renewal of forfeited applications, and the revival of abandoned cases. As to this section a different rule must be adopted from that indicated above in the discussion of section 1, since the proviso clause restricts the extension which may be granted, so that no extension of time may be permitted for a longer term than is permitted by the foreign laws for similar actions. Under this section it will be permissible for a citizen or subject of a foreign country on or before March 3, 1922, to pay any fee or take any action, which fee should have been paid or which action should have been taken on or since August 1, 1914, provided the fee is paid or the action taken on such date that the period between the due date and the date when such fee was actually paid or the required action was actually taken (see *ex parte Rechnitzner, supra*) is not greater than the maximum period of extension afforded by the foreign law, provided the condition as to substantially reciprocal privileges present in this section, as well as in section 1, is satisfied. By this section it was intended to save all rights in foreign applications which otherwise would have been lost by failure to act at the time fixed by law. Since no taxes are due on patents under the American law, nor is working required, nor any other act necessary to be done to keep them in full force for the term for which they were granted, and since the provisions of section 2 provide for all pending applications, so that they may now go to allowance and patent, it will be seen that the law furnishes complete relief from disabilities arising out of the war. It is further observed that the law does not require any showing whatever that failure to file an application or failure to pay a fee or take an action was due to causes arising out of the war.

The proofs offered by petitioner that Great Britain grants to citizens of the United States substantially reciprocal privileges consist of a copy of the Patents, Designs, and Trade-Marks (Temporary) Rules of 1914 and a copy of a notice relative to the International Convention signed at Berne on June 30, 1920, together with an affidavit of the manager of the Washington office of a British firm of patent agents.

Petitioner calls attention to Rule 3 of the temporary rules, 1914, which reads as follows:

3. The comptroller may also at any time during the continuance of these rules extend the time prescribed by the Patents and Designs Act, 1907, or the Trade Marks Act, 1905, or any rules made thereunder, for doing any act or filing any document, upon such terms and subject to such conditions as he may think fit in the following cases, namely:—

(a) Where it is shown to his satisfaction that the applicant, patentee, or proprietor, as the case may be, was prevented from doing the said act, or filing the said document, by reason of active service or enforced absence from this country, or any other circumstances arising from the present state of war, which, in the opinion of the comptroller, would justify such extension:

(b) Where the doing of any act would, by reason of the circumstances arising from the present state of war, be prejudicial or injurious to the rights or interests of any applicant, patentee or proprietor as aforesaid.

There is nothing in this rule relating to an extension of the rights of priority. It may be that other provisions of the British law might be found after search, which, taken with Rule 3, would appear to warrant the extension of such priority rights; but my conclusion upon such matter might be quite contrary to some existing administrative or judicial ruling by the competent British authorities. Besides, these rules apparently do not themselves extend the time, but only provide that the comptroller may do so, and no evidence has been submitted, except as hereinafter indicated, to show to what extent the comptroller has acted in this regard. A search through foreign laws in order to arrive at a conclusion upon the existence of reciprocity is believed to be too uncertain to be relied upon entirely, if a better method can be found.

Furthermore, paragraph (a) of the rule in question seems to restrict the relief provided therein to cases in which the act required by the law could not have been performed because of circumstances arising out of the war, which is not required under the American act, as above pointed out. Under such a provision it would be desirable to know how it had been applied to applications filed by citizens of the United States.

The notice relative to the International Convention of Berne apparently merely directs attention to an act providing for an extension of the temporary rules, so far as it relates to an extension of time, until the 10th day of January, 1921, and since the rule or practice which it is designed to modify is not itself clear, as above pointed out, it is of no assistance.

The affidavit tabulates four applications filed by citizens of the United States in Great Britain more than a year after the filing of the application in the United States, upon two of which, it is averred, British patents have been granted after the granting of the patent in this country, and it is averred that other instances might be given. The facts stated are of some evidential value as to the reciprocal provisions of the British law and practice, but do not constitute satisfactory proof. These two patents may have been granted upon a showing that it was impossible to file the applications on an earlier date, or they may have even been granted by mistake or oversight.

It should not be inferred from the objections made above to the sufficiency of proof that this Office will assume an illiberal attitude as to what are reciprocal privileges or as to the proof thereof; but in view of the fact that the grant of a United

States patent raises a *prima facie* presumption that all prerequisites of the law have been complied with and as the condition of reciprocity is regarded as a prerequisite to the grant better proof should be offered than is presented in this petition.

In order that proof of the laws of a country by one applicant may serve for all other applications filed by the citizens or subjects of that country, of which notice will be given in the OFFICIAL GAZETTE, thereby relieving applicants of unnecessary burdens, it is desirable that in submitting proof of the reciprocal provisions of any foreign law all essential matters be dealt with—the character of defaults which are relieved and the extreme periods of time over which defaults will be relieved—so that an applicant will not prove the law in so far only as it fits his case, leaving it to another applicant to prove so much more as is necessary to bring his case within its provisions. For this reason I have set out above what, at this time, appears to be the proper construction of the law, the things to which it applies, the character of the defaults which are relieved, and the time limits over which it is operative. To summarize in this respect:

(1) Section 1 of the American act extends the rights of priority, which rights had not expired on August 1, 1914, or which have arisen since August 1, 1914, until September 3, 1921.

(2) Section 2 permits a citizen of a foreign country at any time prior to March 3, 1922, to pay any fee or take any action due on or since August 1, 1914, provided the period between the due date and the date when the fee is actually paid or the date when the required action is actually performed is not greater than the maximum period which has been allowed or is now allowed by the foreign country for similar action.

(3) Patents which have been granted run throughout the term of grant, since there is no provision in the American laws whereby they lapse or become abandoned for failure to pay taxes, to work, or for any other reason.

To further emphasize and epitomize the provisions of the American act of March 3, 1921, it may be stated that it is my opinion that no patent heretofore granted is invalid or will become invalid by failure to take any action, since under the American law no action of any kind is necessary to keep the patent in full force, and that the act under discussion makes provision to remedy any default with respect to pending applications of foreign citizens or subjects occurring since the beginning of the war, dependent upon the existence of reciprocity by such foreign country.

Proof of a foreign law may be made by the affidavit of one qualified to know the patent laws of that country. His qualifications may be shown by averments as to his familiarity with the foreign law, by practice before the foreign courts, by practice before the foreign patent office, by study of the law, and by teaching the law. Preferably, in an affidavit intended to prove a foreign law, affiant should quote the law relating to the extension of rights of priority and the law dealing with the revival of lapsed patents or applications or furnish copies of such laws and point out the applicable sections thereof, and he should state what the practice has been and now is with respect to preserving the rights of citizens of the United States along the lines stated above in discussing the provisions of the American act, and the extreme limits of the extensions granted should be specified. Of course it is not expected that every detail of a foreign law will be treated; but what is desired is accurate information with regard to the outstanding features which it is understood were intended to be taken care of by the peace treaty of Versailles, particularly by articles 307 and 308—*i. e.*, the revival of patents lapsed because of failure to pay taxes or to work or for other reasons and extensions of time in connection with applications for patent whereby the inventions were or are protected from defaults arising since the beginning of the war.

It scarcely need be said that a statement by the competent authorities of a foreign Government upon the points indicated would be considered as highly satisfactory in lieu of the testimony of an expert.

The only point decided herein is that the petition does not furnish sufficient proof of the laws of Great Britain to warrant the relief prayed for. This opinion goes far beyond this, as it seemed necessary to do, in order to enable persons whose interests are involved to make any headway in the protection thereof and in order also to enable this Office to administer the law with promptness and without undue friction. The danger is recognized of placing an interpretation on the law before all its phases have been revealed and fully discussed by clashing interests, and hence the views above expressed are not to be taken as absolutely binding, but may be modified in the light of further information. For the present, however, they will furnish a guide to the proceedings in this Office.

The petition is denied.

[Copies of this decision, together with the law on the succeeding page, may be obtained for five cents each by addressing the "Commissioner of Patents, Washington, D. C."]

EXTENSION OF TIME FOR FILING APPLICATIONS FOR LETTERS PATENT, FOR TAKING ACTIONS WITH RESPECT THERETO, FOR THE REVIVING AND REINSTATEMENT OF APPLICATIONS, AND FOR OTHER PURPOSES.

[H. R. 15662.]

An act to extend temporarily the time for filing applications for Letters Patent, for taking actions in the United States Patent Office with respect thereto, for the reviving and reinstatement of applications for Letters Patent, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the rights of priority provided by section 4887 of the Revised Statutes, for the filing of applications for patent for inventions and designs, which rights had not expired on the 1st day of August, 1914, or which rights have arisen since the 1st day of August, 1914, shall be, and the same are hereby, extended until the expiration of a period of six months from the passage of this act in favor of the citizens of the United States or citizens or subjects of all countries which have extended, or which now extend, or which within said period of six months shall extend substantially reciprocal privileges to citizens of the United States, and such extension shall apply to applications upon which patents have been granted, as well as to applications now pending or filed within the period herein: *Provided*, That such extension shall in no way furnish a basis of claim against the Government of the United States: *Provided further*, That such extension shall in no way affect the right of any citizen of the United States, who, before the passage of this act, was *bona fide* in possession of any rights in patents or applications for patent conflicting with rights in patents granted or validated by reason of such extension, to exercise such rights by itself or himself personally, or by such agents, or licensees, as derived their rights from it, or him, before the passage of this act, and such persons shall not be amenable to any action for infringement of any patent granted or validated by reason of such extension.

A patent shall not be refused on an application coming within the provisions of this act, nor shall a patent granted on such application be held invalid by reason of the invention having been patented or described in any printed publication or in public use or on sale in the United States prior to the filing of the application, unless such patent or publication or such public use or sale was prior to the filing of the foreign application upon which the right of priority is based.

SEC. 2. That the time now fixed by law for the payment of any fee or for the taking of any action with respect to an application for patent, which time had not expired on August 1, 1914, or which commenced after August 1, 1914, is hereby extended until the expiration of one year from the passage of this act, without the payment of extension fees or other penalty in favor of the citizens or subjects of countries which have extended, now extend, or shall extend during a period of one year from the passage of this act substantially reciprocal privileges to citizens of the United States, provided that no extension herein shall confer such privileges on the citizens or subjects of a foreign country for a longer term than the term during which such privileges are conferred by such foreign country on the citizens of the United States, but nothing in this act shall give any right to reopen interference proceedings where final hearing before the Examiner of Interferences has taken place.

SEC. 3. That no patent granted or validated by reason of the extensions provided for in sections 1 and 2 of this act shall abridge or otherwise affect the right of any citizen of the United States, or his agent or agents, or his successor in business, to continue any manufacture, use, or sale commenced before the passage of this act by such citizen, nor shall the continued manufacture, use, or sale by such citizen, or the use or sale of the devices resulting from such manufacture or use constitute an infringement.

SEC. 4. That all applications for patent filed since August 1, 1914, and prior to June 15, 1920, which were executed by an agent of the applicant, and in which a petition, specification, and oath, signed by the inventor, or his executor or administrator, had been filed or shall have been filed within a period of one year from the passage of this act, and the patents granted on such applications, shall have the same force and effect as if the papers signed by the inventor, or his executor or administrator, had been filed on the date on which the papers signed by the agent were filed.

SEC. 5. That all applications for patent filed since August 1, 1914, in which the oath was executed before or authenticated by a consular officer, or other representative qualified to administer oaths, of a Government acting in the interests of the Government of the United States, shall have the same force and effect as if said oath had been executed by the applicant before a consular officer of the United States.

SEC. 6. That where an invention was made by a person while serving abroad, during the war, with the forces of the United States, civil or military, the inventor thereof shall be entitled, in interference and other proceedings arising in connection with such invention, to the same rights of priority with respect of such invention as if the same had been made in the United States, and where an application became abandoned or forfeited, during the time the applicant was serving with the forces of the United States, by reason of his failure to take action or pay a fee within the time now required by law, such action may be taken, or the fee paid, within six months from the passage of this act.

SEC. 7. That no claim shall be made or action brought in respect of the use since August 1, 1914, up to the passsage of this act, by the Government of the United States, or by any persons acting on behalf of, or under contract with, or with the assent of the Government of the United States or of Governments or their representatives associated with the United States, under any patent rights owned in whole or in part since August 1, 1914, by an alien enemy, nor in respect of the use of any process during such period, or the sale, offering for sale, or use, at any time, of any products, articles, or apparatus whatsoever manufactured during such period to which such patent rights applied.

SEC. 8. That nothing in this act shall affect any act done by virtue of the special measures taken during the war under legislative, executive, or administrative authority of the United States in regard to the rights of an enemy, or ally of an enemy, as defined by the Trading with the Enemy Act of October 6, 1917, in patents for inventions and designs.

Approved, March 3, 1921.

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF APRIL, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abel, Joseph, Washington, D. C. Photographic-printing machine. No. 1,375,662; Apr. 26; v. 285; p. 577.
Ablgt, Arthur F., Indianapolis, Ind. Molding-machine. No. 1,376,129; Apr. 26; v. 285; p. 665.
Abts, William H., Belden, Nebr. Animal-controlled feeder. No. 1,375,622; Apr. 19; v. 285; p. 526.
Acme Card System Company. (See MacDonagh, Frank L. assignor.)
Acme Lock Stitch Sewing Machine Company. (See Myers, Charles E., assignor.)
Adams, Elliot Q., Berkeley, Calif., and H. L. Haller, Cincinnati, Ohio. Photosensitizing dye of the iso-cyanin type. No. 1,374,871; Apr. 12; v. 285; p. 330.
Adams, Elliot Q., Berkeley, Calif., and H. L. Haller, Cincinnati, Ohio. Photosensitizing dye effective for infrared radiation. No. 1,374,872; Apr. 12; v. 285; p. 330.
Adams, Eugene B., Ironton, Ohio. Vending-machine. No. 1,373,582; Apr. 5; v. 285; p. 39.
Adams, Frank A., assignor to Shur Products, Inc., Rochester, N. Y. Cigar-lighting device. No. 1,373,583; Apr. 5; v. 285; p. 40.
Adams, Lloyd C. (See Adams, Sherman R. and L. C.)
Adams, Sherman R. and L. C., Long Beach, Calif. Grindstone. No. 1,375,343; Apr. 19; v. 285; p. 483.
Adams & Westlake Company, The. (See Krohn, Nels, assignor.)
Addressograph Company. (See Duncan, Joseph S., assignor.)
Adkins, Thomas E., Canton, Ohio. Grease-cup. No. 1,373,991; Apr. 5; v. 285; p. 120.
Aeromarine Plane & Motor Company. (See Zimmermann, Paul G., assignor.)
Aiken, Frank, Elkins Park, assignor to Atwater Kent Manufacturing Works, Philadelphia, Pa. Electric ignition apparatus. No. 1,375,884; Apr. 26; v. 285; p. 618.
Ainsworth, William A., Utica, N. Y. Cleaning knitted or like fabrics. No. 1,375,663; Apr. 26; v. 285; p. 577.
Airey, Walter E., and J. Pomfret, Manchester, England. Umbrella. No. 1,373,642; Apr. 5; v. 285; p. 51.
Aitken, Leonard, assignor to Lawrence Duck Company, Lawrence, Mass. Automatic weft-replenishing loom. No. 1,375,885; Apr. 26; v. 285; p. 618.
Aitken, Leonard, assignor to Lawrence Duck Company, Lawrence, Mass. Weft-replenishing loom. No. 1,375,886; Apr. 26; v. 285; p. 618.
Akemann, Walther, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus for naval guns. No. 1,373,793; Apr. 5; v. 285; p. 80.
Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for the electrical long-distance control of the valve-gear of a hydraulic gun-pointing gear. No. 1,375,269; Apr. 19; v. 285; p. 468.
Akemann, Walther, Essen, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Long-distance signal and control system. No. 1,375,437; Apr. 19, v. 285; p. 501.
Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Long-distance control and signal device. No. 1,375,438; Apr. 19; v. 285; p. 501.
Aktiebolaget Ingenlörsfirma Fritz Egnell. (See Rodbe, Olof, assignor.)
Aktiebolaget Laurin & Perkel. (See Öhrström, Vilhelm assignor.)
Aktiebolaget Ljungstrom Angturbin. (See Ljungström, Fredrik, assignor.)
Albig, William O. (See Currie, Otis C., assignor.)
Albin Dreschsel Sohne. (See Drechsel, Emil A., assignor.)
Albrecht, Theodore A. L. (See Wandersee, J. F., Peretto, and Albrecht.)
Albrecht, Theodore, Royal Oak, R. Peretto, Farmington, and J. F. Wandersee, assignors to Ford Motor Company of Delaware, Highland Park, Mich. Metal alloy. No. 1,376,062; Apr. 26; v. 285; p. 652.
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hitch for tractors. No. 1,374,271; Apr. 12; v. 285; p. 214.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radio-receiving system. No. 1,373,931; Apr. 5; v. 285; p. 108.
Alexanderson, Ernst F. W., assignor to General Electric Company, Schenectady, N. Y. System of electrical distribution. No. 1,375,991; Apr. 26; v. 285; p. 638.
Alexanderson, Ernst F. W., assignor to General Electric Company, Schenectady, N. Y. Radio-receiving system. No. 1,375,992; Apr. 26; v. 285; p. 638.
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,374,798; Apr. 12; v. 285; p. 315.
Allan, Alonzo H., Leicester, England. Toy dancing figure. No. 1,373,932; Apr. 5; v. 285; p. 108.
Allen, Charles, El Paso, Tex. Thickener, (sewage type.) No. 1,374,134; Apr. 5; v. 285; p. 146.
Allen, Charles, El Paso, Tex. Automatic separator and evaporator. No. 1,374,135; Apr. 5; v. 285; p. 146.
Allen, Charles, El Paso, Tex. Feed-spout barrier. No. 1,374,625; Apr. 12; v. 285; p. 282.
Allen, Charles, El Paso, Tex. Automatic sand-trap. No. 1,374,626; Apr. 12; v. 285; p. 283.
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,373,852; Apr. 5; v. 285; p. 92.
Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Vehicle-top support. No. 1,374,627; Apr. 12; v. 285; p. 283.
Allen, Ebenezer W. (See Heiby, C. G. Burkam, Lindquist, Riggin, Allen, and Law.)
Allen, Edward A., and H. I. Allen, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,373,394; Apr. 5; v. 285; p. 3.
Allen, H. A., & Company. (See Metcalf, Alpha H., assignor.)
Allen, Herbert I. (See Allen, Edward A. and H. I.)
Allen, Herbert I., and K. R. Fox, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,374,976; Apr. 19; v. 285; p. 412.
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Allen, S. L., & Co. (See Bowen, James M., assignor.)
Allen, S. L., & Co. (See Mader, Joseph, assignor.)
Allis-Chalmers Manufacturing Company. (See Atkins, Charles, assignor.)
Allis-Chalmers Manufacturing Company. (See Blankenhorn, George S., assignor.)
Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allis-Chalmers Manufacturing Company. (See Trout, William H., assignor.)
Allsop & Allsop. (See Allsopp, Thomas, assignor.)
Allsopp, Thomas, Newark, N. J., assignor to Allsop & Allsop, Inc. Chain adapted as link-bracelet and the like. No. 1,373,395; Apr. 5; v. 285; p. 3.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,374,709; Apr. 12; v. 285; p. 208.
Allsteel Ridewell Tire and Rubber Company, The. (See Huelter, Andrew, assignor.)
Almy, William F. (See Perkins, Daniel B., assignor.)
Altwegg, Jean, and D. Ebin, Lyon, assignors to Societe Chimique Des Usines Du Rhone, (anciennement Gilliard P. Monnet et Cartier.) Paris, France. Preparation of twice-substituted 2-4-diketo-tetrahydro-oxazols. No. 1,375,949; Apr. 26; v. 285; p. 631.
Alvarado Mining and Milling Company. (See Hirt, Jules H., assignor.)
Amann, George W., Jr., Little Black, Wis. Electric motor. No. 1,374,171; Apr. 12; v. 285; p. 195.
Ambrose, Jennings G., San Diego, Calif. Airship. No. 1,373,697; Apr. 5; v. 285; p. 61.
Ambruster, Cornelius. (See Smith, E. W., Galloway, and Ambruster.)
Ambursen, Nils F., Pittsburgh, Pa. Hanger for concrete construction. No. 1,374,894; Apr. 19; v. 285; p. 397.
American Bank Note Company. (See Marquardt, Frank C., assignor.)
American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang E., assignor.)
American Brake Shoe & Foundry Company, The. (See Jones, Harry, assignor.)
American Brake Shoe & Foundry Company, The. (See Thompson, James S., assignor.)
American Can Company. (See Fleischer, Paul W., assignor
American Can Company. (See Foss, Fred G., assignor.)
American Car and Foundry Company. (See Kitt, Frederick T., assignor.)

American Chain Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
American Cigar Company. (See Schneider, Anthony, assignor.)
American Cyanamid Company. (See Washburn, Frank S., assignor.)
American Electric Company. (See Kideney, William W., assignor.)
American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)
American Floor Surfacing Machine Company, The. (See Wolfe, Harry H., assignor.)
American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)
American Lacing Hook Co. (See Rhodes Austin D., assignor.)
American Laundry Machinery Company, The. (See Link, George N., assignor.)
American Laundry Machinery Company, The. (See Lyon, Robert V., assignor.) (Reissue.)
American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)
American Laundry Machinery Company, The. (See Snow, Arthur E., assignor.)
American Laundry Machinery Company. (See Waream, C. E., and Link, assignors.)
American Machinery Co. (See Lundin, Trued B., assignor.)
American Optical Company. (See Arnold, Arthur A., assignor.)
American Optical Company. (See Boutelle, William H., assignor.)
American Smelting and Refining Company. (See Howard, William H., assignor.)
American Standard Tool Company. (See Wiard, Frederick, assignor.)
American Steel Foundries. (See Jones, Ap Trevor, assignor.)
American Steel Foundries. (See Trowbridge, William S., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
American Steel & Wire Company of New Jersey. (See Phelps, Frederick S., assignor.)
American Telephone and Telegraph Company. (See Englund, Carl R., assignor.)
American Telephone and Telegraph Company. (See Hitchcock, Harry W., assignor.)
American Telephone and Telegraph Company. (See Martin, William H., assignor.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
American Tool Works Company, The. (See Sosa, Augustus M., assignor.)
American Type Founders Company. (See Marder, Clarence C., assignor.)
American Well Works, The. (See Kerr, Charles V., assignor.)
Ames, Apollos P., Tacoma, Wash. Fountain-syringe. No. 1,374,799; Apr. 12; v. 285; p. 316.
Ames, Shirley L., New York, N. Y. Citrus-juice powder. No. 1,373,933; Apr. 5; v. 285; p. 108.
Amici, Domenico, Woodland, Calif. Aeroplane. No. 1,373,934; Apr. 5; v. 285; p. 108.
Amonsen, George H. (See Amonsen Gilbert and G. H.)
Amonsen, Gilbert and G. H., Minneapolis, Minn. Front-axle device. No. 1,375,439; Apr. 19; v. 285; p. 501.
Amos, Frank M., assignor to Wheeling Tile Company, Wheeling, W. Va. Insulator. No. 1,376,307; Apr. 26; v. 285; p. 699.
Andersen, Anders P. (See Jensen, O. P., and Andersen.)
Anderson, August W. (See Olson, Olof W., assignor.)
Anderson, Fred H., Camden, N. J. Combined rake and fork. No. 1,374,800; Apr. 12; v. 285; p. 316.
Anderson, James A., Chickasha, Okla. Portable motor. No. 1,375,270; Apr. 19; v. 285; p. 469.
Anderson, K. E. (See Shull, Elbert W., assignor.)
Anderson, Per A., New York, N. Y. Air-valve for carburetors. No. 1,376,063; Apr. 26; v. 285; p. 652.
Anderson, Wilhelmine, West New York, N. J. Convertible trunk. No. 1,374,346; Apr. 12; v. 285; p. 228.
Anderson, William G., Seattle, Wash. Garden hoe and weeder. No. 1,374,051; Apr. 5; v. 285; p. 130.
Anderson, William J., Duluth, Minn. Meat-grinder. No. 1,375,766; Apr. 26; v. 285; p. 595.
Andes, Myrtle A., Huntington, W. Va. Utensil-handle guard. No. 1 375,271; Apr. 19; v. 285; p. 469.
Andren, Birger T. (See Smith, R. S., Andren, and Miller.)
Andrew, Frederick W., assignor to Elsemann Magneto Corporation, Brooklyn, N. Y. Magneto for gas-engines. No. 1,374,542; Apr. 12; v. 285; p. 266.
Andrews, Bernard R., Braintree, Mass. Drying apparatus. No. 1,373,396; Apr. 5; v. 285; p. 3.
Andrews, L. Maude, Seattle, Wash. Pocket for corsets. No. 1,374,172; Apr. 12; v. 285; p. 195.
Andrews, Lawrence J., Falk, Idaho. Trap. No. 1,376,308; Apr. 26; v. 285; p. 699.
Andrews, Marcus P., Petersburg, Va. Brickmaking apparatus. No. 1,374,173; Apr. 12; v. 285; p. 195.
Andrews, O. B., Company. (See Davis, John N., assignor.)
Angier, Edward H. (See Wheildon, William M., assignor.)
Angus, Donald J., assignor to Esterline & Angus, Indianapolis, Ind. Gas-generator. No. 1,373,477; Apr. 5; v. 285; p. 19.
Angus, William A. R., Winnipeg, Manitoba, Canada. Repair-clamp. No. 1,374,174; Apr. 12; v. 285; p. 195.
Anker, James J., Verona, Pa. Phonograph attachment. No. 1,374,483; Apr. 12; v. 285; p. 255.
Ansley, George W., Long Beach, Calif. Wrench. No. 1,375,546; Apr. 19; v. 285; p. 521.
Antanaviczius, Wincas, Brooklyn, N. Y. Tape-needle. No. 1,374,710; Apr. 12; v. 285; p. 299.
Anthony, Marcus O., assignor of one-half to A. Kimball Company, New York, N. Y. Grenade. No. 1,375 440; Apr. 19; v. 285; p. 502.
Anthony, Thomas L., Lincoln, Nebr. Steering-gear connection for motor-vehicles. No. 1,375,887; Apr. 26; v. 285; p. 618.
Antley, William J., Yonges Island, S. C. Current-motor. No. 1,374,801; Apr. 12; v. 285; p. 316.
Appleby, Edwin, Chicago, Ill. Electric furnace. No. 1,374,802; Apr. 12; v. 285; p. 316.
Apfeld, Bernard V., Spokane, Wash. Wrench. No. 1,375,071; Apr. 19; v. 285; p. 431.
Apsley Rubber Company. (See Dunbar, Ernest W., assignor.)
Arato, Achille, assignor to Ferruccio Botta, Turin, Italy. Steering-gear for trailers. No. 1,374,175; Apr. 12; v. 285; p. 195.
Arata, John B. (See Gamble, John A., assignor.)
Arbuckle, Samuel F. (See De Martin, C. L., Matteoli, and Arbuckle.)
Ard, Ligon B., New York, N. Y. Treating shale and like material. No. 1,373,698; Apr. 5; v. 285; p. 61.
Ard, Ligon B., New York, N. Y. Apparatus for treating shale and like material. No. 1,373,699; Apr. 5; v. 285; p. 62.
Ariura, Murajl, Tokyo, Japan. Apparatus for refloating sunken vessels. No. 1,373,643; Apr. 5; v. 285; p. 51.
Armor, James C., Pittsfield, Mass., assignor to General Electric Company. Arc-welding composition. No. 1,374,711; Apr. 12; v. 285; p. 299.
Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,375,344; Apr. 19; v. 285; p. 483.
Armstrong, Joseph M., Alexandria, Va. Shutter-frame. No. 1,373,584; Apr. 5; v. 285; p. 40.
Armstrong, Percy A. E., New York, N. Y. Roller-bearing. No. 1,376,309; Apr. 26; v. 285; p. 699.
Armstrong, Percy A. E., Watervliet, N. Y. Roller-bearing. No. 1,376,310; Apr. 26; v. 285; p. 699.
Armstrong, Percy A. E., Loudonville, N. Y. Combined thrust and journal roller-bearing. No. 1,376,311; Apr. 26; v. 285; p. 700.
Armstrong, Robert F., La Cygne, Kans. Artificial hand. No. 1,375,809; Apr. 26; v. 285; p. 603.
Armstrong, William W. (See Davenport, Isaac L., assignor.)
Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,374,896; Apr. 19; v. 285; p. 397.
Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Power-modulator for radiotransmission. No. 1,375,481; Apr. 19; v. 285; p. 509.
Arntz, Joseph P., Canal Fulton, Ohio. Window-bracket No. 1,373,397; Apr. 5; v. 285; p. 3.
Arntz, Theodore W. (See Werner, O. P., and Arntz.)
Arragg, George M., Lawrence, Mass. Stop-motion. No. 1,374,417; Apr. 12; v. 285; p. 242.
Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Gas-check. No. 1,376,130; Apr. 26; v. 285; p. 665.
Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)
Ashland Products Company, The. (See Willour, Le Roy, assignor.)
Ashlund, Erik A., Waukegan, Ill. Overshoe-applicator. No. 1,374,544; Apr. 12; v. 285; p. 266.
Ashtabula Bow Socket Company, The. (See Allen, Charles R., assignor.)
Ashworth, Asa, Salamanca, N. Y. Apparatus for dyeing tops, yarn, &c. No. 1,374,543; Apr. 12; v. 285; p. 266.
Ashworth, Asa, Salamanca, N. Y. Apparatus for dyeing tops, yarn, &c. No. 1,374,628; Apr. 12; v. 285; p. 283.
Asquith, Stead A., Waterloo, Iowa. Air-hose support. No. 1,374,803; Apr. 12; v. 285; p. 316.
Associated Engineering and Supply Company. (See Down, Sidney G., assignor.)
Ast, Fritz L., Los Angeles, Calif. Flatiron. No. 1,376,242; Apr. 26; v. 285; p. 686.
Atkins, Charles, Cincinnati, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and means for assembling core laminations. No. 1,375,072; Apr. 19; v. 285; p. 431.
Atlantic Refining Company. (See Johansen, Ernest M., assignor.)
Atlas Powder Company. (See Carlsson, O., and Thall, assignors.)
Atwater Kent Manufacturing Works. (See Aiken, Frank, assignor.)
Auert, Nicholas A., assignor to C. H. Lehbank, Longmont, Colo. Safety-lamp. No. 1,376,243; Apr. 26; v. 285; p. 686.

Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Lubricating and packing device for shafts. No. 1,374,895; Apr. 19; v. 285; p. 397.
Austin, Bascum O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and apparatus. No. 1,374,545; Apr. 12; v. 285; p. 267.
Austin, Henry S., Philadelphia, Pa. Hot-air generator. No. 1,375,664; Apr. 26; v. 285; p. 577.
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Automatic Gun Control Company. (See Farrell, Stephen A., assignor.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Averill, Earl A., Mount Vernon, assignor to Locomotive Feed Water Heater Company, New York, N. Y. Fluid-pressure-delivery mechanism for locomotive-feed-water-heater systems. No. 1,376,064; Apr. 26; v. 285; p. 653.
Averill, Willard C., Jr., Houston, Tex. Distilling hydrocarbons. No. 1,375,245; Apr. 19; v. 285; p. 464.
Avery, William C., Honolulu, Hawaii. Paper-feeding apparatus for typewriters. No. 1,373,700; Apr. 5; v. 285; p. 62.
Ayres, Clinton L. (See McNeely, Carl, assignor.)
Ayres, Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,376,244; Apr. 26; v. 285; p. 687.
Babcock, Leland A., assignor to Sprague Canning Machinery Company, Chicago, Ill. Cutting device for fruit-disintegrating machines. No. 1,373,398; Apr. 5; v. 285; p. 3.
Babcock & Wilcox Company, The. (See Sneddon, James P., assignor.)
Babel, Henry C., Buffalo, N. Y. Wheel-rim. No. 1,374,272; Apr. 12; v. 285; p. 214.
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing catalyzers. No. 1,375,345; Apr. 19; v. 285; p. 483.
Bacon Bros. Company, The. (See Gillian, Herman A., assignor.)
Bacon, Raymond F., and H. S. Davis, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Treatment of mined sulfur. No. 1,374,897; Apr. 19; v. 285; p. 397.
Bacon, Raymond F., and H. S. Davis, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Treatment of mined sulfur. No. 1,374,898; Apr. 19; v. 285; p. 397.
Badeker, John, assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr. Metallic rod-packing. No. 1,376,131; Apr. 26; v. 285; p. 666.
Badenhausen, John P., Philadelphia, Pa. Boiler. No. 1,374,484; Apr. 12; v. 285; p. 255.
Badgley, Charles A. (See Jones, Llewellyn R., assignor.)
Baer, Edward G., assignor to The Will-Burt Company, Orrville, Ohio. Bracket. No. 1,375,888; Apr. 26; v. 285; p. 619.
Bailey, Edwin W. M., Amesbury, Mass. Window-glass channel. No. 1,374,629; Apr. 12; v. 285; p. 283.
Bailey, Ervin G., Newton Highlands, Mass., assignor to Bailey Meter Company. Pressure-relation gage. (Reissue.) No. 15,079; Apr. 12; v. 285; p. 334.
Bailey, Ervin G., Newton Highlands, Mass., assignor to Bailey Meter Company. Obtaining a ready comparison of factors in a power producing or using apparatus. (Reissue.) No. 15,080; Apr. 12; v. 285; p. 334.
Bailey, George B., Linton, Ind. Electric train-stop. No. 1,376,245; Apr. 26; v. 285; p. 687.
Bailey Meter Company. (See Bailey, Ervin G., assignor.) (Reissue.)
Bailey, Theodorus S., Berkeley, Calif. Vessel-filling apparatus. No. 1,373,935; Apr. 5; v. 285; p. 100.
Bally, Thaddeus F., and P. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Melting-furnace. No. 1,373,787; Apr. 5; v. 285; p. 78.
Baird, Benjamin F., Hollidaysburg, Pa. Tool. No. 1,375,547; Apr. 19; v. 285; p. 522.
Baird, Dudley, Berkeley, Calif., assignor to General Chemical Company, New York, N. Y. Metallurgical furnace. No. 1,375,346; Apr. 19; v. 285; p. 483.
Baker & Company. (See Van Allen, George L., assignor.)
Baker, David B., Hoquiam, Wash. Auto-jack and power plant. No. 1,373,585; Apr. 5; v. 285; p. 40.
Baker, Franklin, Jr., Philadelphia, Pa. Removing cocoa-nut-shells. No. 1,374,899; Apr. 19; v. 285; p. 397.
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Steam-condensing apparatus. No. 1,375,272; Apr. 19; v. 285; p. 469.
Baker, Henry F. (See Smith, Harold J., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Peoples, John S., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Swan, John H., assignor.)
Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)
Baker, William E., assignor to Wonder Trap Co., Inc., Waco, Tex. Wire fabric. No. 1,375,810; Apr. 26; v. 285; p. 603.
Bakovitch, Joseph, Herminie, Pa. Rail-joint and fastener therefor. No. 1,374,804; Apr. 12; v. 285; p. 317.
Balch, Samuel W., Montclair, N. J. Hand-setting mechanism for time-pieces. No. 1,375,347; Apr. 19; v. 285; p. 484.
Balch, Samuel W., Montclair, N. J. Hand-setting mechanism for timepieces. No. 1,375,348; Apr. 19; v. 285; p. 484.
Baldi, Giovanni, Chicago, Ill. Extension-table. No. 1,376,246; Apr. 26; v. 285; p. 687.
Baldus, Paul C., Milwaukee, Wis. Forming wrench-sockets. No. 1,375,767; Apr. 26; v. 285; p. 595.
Baldwin, Jesse, assignor to B. C. Case, Detroit, Mich. Carbureter. No. 1,373,644; Apr. 5; v. 285; p. 51.
Balfour, Arthur. (See MacGregor, P., and Balfour.)
Ball Brothers Glass Manufacturing Company. (See Wadsworth, Frank L. O., assignor.)
Ball, Henry P., Brooklyn, assignor to S. Sternau & Co., Inc., New York, N. Y. Grid or grill. No. 1,373,788; Apr. 5; v. 285; p. 79.
Ball, John E., Council Bluffs, Iowa. Signal. No. 1,373,936; Apr. 5; v. 285; p. 109.
Ballin, Joseph, Dubuque, Iowa. Hobbyhorse. No. 1,376,132; Apr. 26; v. 285; p. 666.
Ballou, Harold G., Los Angeles, Calif. Process of and mold for rebuilding tires. No. 1,374,805; Apr. 12; v. 285; p. 317.
Ballou, John M. (See Balzer, V. W., and Ballou.)
Ballou, John McK. (See Balzer, V. W., and Ballou.)
Baltensweiler, Adolf. (See Mayer, H., Schlatter, and Baltensweiler.)
Baltzley, Oren F., Hagerstown, Md. Feeding mechanism No. 1,375,889; Apr. 26; v. 285; p. 619.
Balzer, Vernon W., and J. M. Ballou, assignors to Western Aircraft Corporation, Inc., Los Angeles, Calif. Internal-combustion engine. No. 1,375,651; Apr. 19; v. 285; p. 541.
Balzer, Vernon W., and J. M. Ballou, assignors to Western Aircraft Corporation, Los Angeles, Calif. Internal-combustion engine. No. 1,376,133; Apr. 26; v. 285; p. 666.
Bancroft, Erwin P., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting mechanism. No. 1,374,630; Apr. 12; v. 285; p. 283.
Bandoly, Erich A. M., Chicago, Ill. Anchoring device. No. 1,373,645; Apr. 5; v. 285; p. 51.
Bang, Enevold, Minneapolis, Minn. Door-check. No. 1,373,646; Apr. 5; v. 285; p. 51.
Banks, William O. (See Barnard, A. C., and Banks.)
Barratta, Angelo. (See Barchiesi, Aurello, assignor.)
Baratta, Angelo, *et al.* (See Barchiesi, Aurello, assignor.)
Barbour, Wolsey R., Terre Haute, Ind. Cleat for tractor-wheels. No. 1,375,665; Apr. 26; v. 285; p. 577.
Barchiesi, Aurello, assignor of one-fifth to A. Baratta, Jersey City, N. J., one-fifth to G. Squarcialupi, and one-fifth to L. L. Bolline, New York, N. Y. Automatic valve-closer. No. 1,374,273; Apr. 12; v. 285; p. 214.
Barchiesi, Aurello, assignor of one-half to A. Baratta, Jersey City, N. J. Automatic valve-closer. No. 1,375,073; Apr. 19; v. 285; p. 431.
Barchiesi, Aurello, assignor of one-fifth to A. Baratta, Jersey City, N. J., one-fifth to G. Squarcialupi and one-fifth to L. L. Bolline, New York, N. Y. Double automatic valve-closer. No. 1,375,074; Apr. 19; v. 285; p. 432.
Barger, Walter R., Benkelman, Nebr. Weaner. No. 1,375,031; Apr. 19; v. 285; p. 422.
Barker, Wendell A., Elkhart, Ind. Revolving-jaw chuck. No. 1,373,789; Apr. 5; v. 285; p. 79.
Barnard, Alexander C., and W. O. Banks, Oakland, assignors of one-third to H. B. Tooker, San Francisco, Calif. Filing device. No. 1,375,650; Apr. 19; v. 285; p. 541.
Barnes, John J., Henry, Ill. Conductor for disposing of fumes arising from cooking utensils. No. 1,375,548; Apr. 19; v. 285; p. 522.
Barnes, Lionel M., Paget West, Bermuda. Fruit-picker. No. 1,374,176; Apr. 12; v. 285; p. 196.
Barnes, Orange P., Chicago, Ill., assignor, by mesne assignments, to National Motor Control Co. Armor for ignition systems. No. 1,375,549; Apr. 19; v. 285; p. 522.
Barnes, William O., Leominster, Mass. Machine for grinding formed cutters. No. 1,373,586; Apr. 5; v. 285; p. 40.
Barnes, William O., Leominster, Mass. Machine for grinding formed cutters. No. 1,373,587; Apr. 5; v. 285; p. 40.
Barney, Philip, Dollard, Manitoba, Canada. Animal-poke. No. 1,373,701; Apr. 5; v. 285; p. 62.
Barnickel, William S., St. Louis, Mo. Pumping apparatus. No. 1,375,200; Apr. 19; v. 285; p. 456.
Baron, Charles S., Tiffin, Ohio. Liquid-container provided with removable hinged top. No. 1,375,993; Apr. 26; v. 285; p 639.
Barr, Hugh M., Pensacola, Fla. Retort. No. 1,373,702; Apr. 5; v. 285; p. 62.
Barra, Arturo, Manila, Philippine Islands. Copra-cooker. No. 1,374,873; Apr. 12; v. 285; p. 330.
Barraclough, Arthur, assignor to W. & T. Avery Limited, Birmingham, England. Scale for automatically weighing granular or like substances. No. 1,374,977; Apr. 19; v. 285; p. 412.
Barrell, Charles S., Boston, Mass. Tire-chain. No. 1,374,347; Apr. 12; v. 285; p. 228.

Barrell, Charles S., Boston, Mass. Swivel-turn buckle device. No. 1,374,348; Apr. 12; v. 285; p. 228.
Barrett Company, The. (See Downs, Charles R., assignor.)
Barrett Company, The. (See Weiss, J. M., and Downs, assignors.)
Barrett, James, Murdock, Minn. Sprayer attachment. No. 1,374,274; Apr. 12; v. 285; p. 214.
Barrett, Rollin J., and G. E. Bean, Mitchellville Iowa. Overhead valve attachment for Ford motors. No. 1,375,246; Apr. 19; v. 285; p. 464.
Barron, Frederick W., Winnipeg, Manitoba, Canada. Combination holder and lifter. No. 1,373,703; Apr. 5; v. 285; p. 62.
Barry, Joseph F., New York, N. Y. Orthopedic appliance. No. 1,374,177; Apr. 12; v. 285; p. 196.
Bartels, Amandus, Harburg-ou-the-Elbe, Germany. Apparatus for the manufacture of horn-like masses from casein. No. 1,375,623; Apr. 19; v. 285; p. 536.
Bartels, Amandus, Harburg-on-the-Elbe, Germany. Apparatus for the manufacture of transparent horn-like casein masses. No. 1,375,624; Apr. 19; v. 285; p. 536.
Bartholdy, Max, assignor to Fried. Krupp Aktiengesellschaft, Essen, Germany. Sighting device for ordnance. No. 1,373,937; Apr. 5; v. 285; p. 109.
Bartlett, Edward C. H., Cleveland Ohio. Blower. No. 1,375,482; Apr. 19; v. 285; p. 509.
Bartsch, Paul, Washington, D. C. Wood protection. No. 1,374,806; Apr. 12; v. 285; p. 317.
Barwick, James W., Pinepark, Ga. Automobile-lock. No. 1,375,994; Apr. 26; v. 285; p. 639.
Bass, John, Bois-Colombes, France. Grinding of antifriction-rollers. No. 1,375,890; Apr. 26; v. 285; p. 619.
Bassett, May, Des Moines, Iowa. Steamer device for millinery-work. No. 1,373,938; Apr. 5; v. 285; p. 109.
Bassler, Edwin M., Milwaukee, Wis. Process and apparatus for drying materials. No. 1,374,874; Apr. 12; v. 285; p. 330.
Bastian, August H., Hillsdale, Oreg. Raker-gage for crosscut-saws. No. 1,376,065; Apr. 26; v. 285; p. 653.
Batchelder, Asa F., assignor to General Electric Company, Schenectady, N. Y. Self-propelled motor-car. No. 1,379,995; Apr. 26; v. 285; p. 639.
Batchelder, Frank R. (See Jennings, Victor H., assignor.)
Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Cartridge-carrier. No. 1,374,712; Apr. 12; v. 285; p. 299.
Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Woven pocketed carrier. No. 1,375,442; Apr. 19; v. 285; p. 502.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-tying tool. No. 1,373,939; Apr. 5; v. 285; p. 109.
Bates, Lindon W., Mount Lebanon, N. Y. Producing gas. No. 1,373,704; Apr. 5; v. 285; p. 63.
Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No 1,375,811; Apr. 26; v. 285; p. 603.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Baude, Joseph R., Chicago, Ill. Antiskid device. No. 1,375,201; Apr. 19; v. 285; p. 456.
Baudin, Marie L. E., Besancon, France. Extraction of values from highly-dilute solutions. No. 1,375,441; Apr. 19; v. 285; p. 502.
Bauer & Black. (See Sharp, William H., assignor.)
Bauer, Carl E., Hammond, Ind. Drawbar-yoke. No. 1,375,768; Apr. 26; v. 285; p. 595.
Bauer, George P., Miami, Aria. Traction-mat. No. 1,375,666; Apr. 26; v. 285; p. 577.
Baumann, Gottfried P., Chicago, and R. A. Fink, Oak Park, Ill. Loose-leaf binder. No. 1,375,607; Apr. 26; v. 285; p. 578.
Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,375,075; Apr. 19; v. 285; p. 432.
Baumann, Karl, Urmston, England, assignor to Westinghouse Electric & Manufacturing Co. Radial-flow steam-turbine. No. 1,375,076; Apr. 19; v. 285; p. 432.
Baumann, Karl, Urmston, England, assignor to Metropolitan-Vickers Electrical Company, Limited. Steam-turbine. (Reissue.) No. 15,092; Apr. 26; v. 285; p. 714.
Baume, Frank J., Mulhouse, Alsace-Lorraine. Shuttle-mover. No. 1,373,705; Apr. 5; v. 285; p. 63.
Baumgartl, Leroy, Chicago, Ill. Automobile-bumper. No. 1,374,978; Apr. 19; v. 285; p. 412.
Bayor, John J., Cleveland, Ohio. Dirigible headlight. No. 1,373,706; Apr. 5; v. 285; p. 63.
Bayerische Motoren Werke, Aktiengesellschaft. (See Friz, Max, assignor.)
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotating construction for percussive tools. No. 1,375,443; Apr. 19; v. 285; p. 502.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotating device for percussive tools. No. 1,375,444; Apr. 19; v. 285; p. 502.
Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve for drills. No. 1,373,353; Apr. 5; v. 285; p. 92.
Beach, Charles P., Littleton, N. H. Arbor-press. No. 1,373,588; Apr. 5; v. 285; p. 41.
Bean, George E. (See Barrett, R. J., and Bean.)
Bean, Leon L., Freeport, Me. Tongue and top reinforcement for shoes. No. 1,378,309; Apr. 5; v. 285; p. 4.
Beard, Marguerite E., Westhoff, Tex. Typewriter-desk. No. 1,376,312; Apr. 26; v. 285; p. 700.
Bearden, Hugh F., Atlanta, Ga. Nozzle. No. 1,376,134; Apr. 26; v. 285; p. 666.
Beaty, Wilbur L., South Butte, Mont. Angler's cabinet-vise. No. 1,374,807; Apr. 12; v. 285; p. 317.
Beaty, Wilbur L., South Butte, Mont. Hand-grip for fishing-rods. No. 1,375,668; Apr. 26; v. 285; p. 578.
Beazley, William R., Jacksonville, Fla. Electrode-holder. No. 1,376,185; Apr. 26; v. 285; p. 675.
Beck, Adolf. (See Pistor, G., Beielstein, and Beck.)
Beck, Heinrich, assignor to General Electric Company, Schenectady, N. Y. Method of and apparatus for preventing injury of searchlight-mirrors. No. 1,375,696; Apr. 26; v. 285; p. 639.
Becker, Harry A., San Francisco, Calif. Door-bolt. No. 1,374,275; Apr. 12; v. 285; p. 214.
Becker, John B., New York, N. Y. Power-transmission device. No. 1,373,790; Apr. 5; v. 285; p. 79.
Becker, John H., Bloomington, Ill. Ice-creeper. No. 1,374,418; Apr. 12; v. 285; p. 242.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort-oven. No. 1,374,546; Apr. 12; v. 285; p. 267.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,376,483; Apr. 19; v. 285; p. 509.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,484; Apr. 19; v. 285; p. 509.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,485; Apr. 19; v. 285; p. 510.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven-charging car. No. 1,376,313; Apr. 26; v. 285; p. 700.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven smoke-discharging means. No. 1,376,314 Apr. 26; v. 285; p. 700.
Beckman, Raymond W., Indianapolis, Ind. Vehicle spring suspension. No. 1,373,940; Apr. 5; v. 285; p. 110.
Beecher, Milton F., assignor to Norton Company, Worcester, Mass. Translucid antislipping-tile. No. 1,374,136; Apr. 5; v. 285; p. 147.
Beeghley, Francis W., U. S. Navy. Copy-holder. No. 1,374,056; Apr. 5; v. 285; p. 131.
Beemer, Frank, assignor to Vulcan Motor Devices Company, Philadelphia, Pa. Change-speed gearing. No. 1,373,547; Apr. 5; v. 285; p. 33.
Behrens, Walter A., Brooklyn, N. Y. Mechanical movement for electric switches, &c. No. 1,375,247; Apr. 19; v. 285; p. 464.
Beielstein, Albert. (See Pistor, G., Beielstein, and Beck.)
Beiber Trunk & Bag Company, The. (See Grube, George F., assignor.)
Belinski, Nicholas D., New York, N. Y. Electrical vaporizer and burner. No. 1,375,646; Apr. 19; v. 285; p. 541.
Bell, James, *et al.* (See Lindsay, John, assignor.)
Bell, James H., Philadelphia, assignor to The Wyoming Shovel Works, Wyoming, Pa. Reinforcing or stay bolt for tool-handles. No. 1,374,713; Apr. 12; v. 285; p. 299.
Bell, Walter A., New York, N. Y. Dark-room lantern. No. 1,374,714; Apr. 12; v. 285; p 299.
Bellair, Edward, assignor to Dupaul, Young Optical Co., Southbridge, Mass. Ophthalmic mounting and making same. No. 1,374,178; Apr. 12; v. 285; p. 196.
Bellingham, John. (See Burrell, W. C., and Bellingham.)
Bellringer, Sidney M., Baltimore, Md., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa. Drill tang and socket. No. 1,374,031; Apr. 12; v. 285; p. 284.
Bender, Berlin, Washington, D. C. Hose-nozzle. No. 1,375,891; Apr. 26; v. 285; p. 619.
Benedict, Hershel A., East Orange, and E. M. Moller, Jersey City, N. J. Combined electric and pneumatic system for cars and the like. No. 1,373,400; Apr. 5; v. 284; p. 4.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,374,340; Apr. 12; v. 285; p. 228.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Conductor-gripping device. No. 1,376,066; Apr. 26; v. 285; p. 653.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lighting device for automobiles. No. 1,376,067; Apr. 26; v. 285; p. 653.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combination cap and socket. No. 1,376,068; Apr. 26; v. 285; p. 654.
Benjamin, Samuel M., New York, N. Y. Display device. No. 1,373,992; Apr. 5; v. 285; p. 120.
Benmayor, Leon. (See Habib, V., and Banmayor.)
Benner, Arthur L., Elgin, Ill. Armored tread for tires. No. 1,375,349; Apr. 19; v. 285; p. 484.
Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Depolarising battery-electrode and making same. No. 1 375,647; Apr. 19; v. 285; p. 541.
Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Dry cell. No. 1,375,202; Apr. 19; v. 285; p. 466.

Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,378,707; Apr. 5; v. 285; p. 63.
Benson Electric Company. (See Silvernale, William N., assignor.)
Benson, Melvin B., Superior, Wis. Telemotor. No. 1,374,179; Apr. 12; v. 285; p. 196.
Benson, Melvin B., Superior, Wis. Telemotor. No. 1,374,180; Apr. 12; v. 285; p. 196.
Benson, Ralph W. (See Lacerda, Harry A., assignor.)
Benyei, John, Cleveland, Ohio. Curtain-rod and shade-roller support. No. 1,373,401; Apr. 5; v. 285; p. 4.
Bens, Max, South Chicago, Ill. Vehicle-wheel. No. 1,375,203; Apr. 19; v. 285; p. 456.
Benzer Corporation, The. (See Benzer, Louis and H., assignors.)
Benzer, Henry. (See Benzer, Louis and H.)
Benzer, Louis and H., assignors to The Benzer Corporation, Brooklyn, N. Y. Lens for headlights. No. 1,374,900; Apr. 19; v. 285; p. 308.
Berecky, William, and G. Munteanu, New York, N. Y. Soft-collar holder. No. 1,374,485; Apr. 12; v. 285; p. 255.
Berg, Albert G., Indianapolis, Ind. Colander. No. 1,375,812; Apr. 26; v. 285; p. 603.
Bergen, Martin H., assignor to National Biscuit Company, New York, N. Y. Wafer-baking apparatus. No. 1,374,419; Apr. 12; v. 285; p. 243.
Bergen Point Iron Works. (See Smith, Augustus, assignor.)
Berger, Adolf, Philadelphia, Pa. Broom. No. 1,375,813; Apr. 26; v. 285; p. 604.
Berggreen, Andrew P., St. Paul, Minn. Toy. No. 1,374,420; Apr. 12; v. 285; p. 243.
Berkeley Light Corporation. (See Wood, William G., assignor.)
Berlin, Solomon, Philadelphia, Pa. Necktie-holder. No. 1,373,941; Apr. 5; v. 285; p. 110.
Bernay, Henri, assignor to The Thurston-Bernay Co., San Francisco, Calif. File-handle. No. 1,374,715; Apr. 12; v. 285; p. 299.
Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,375,997; Apr. 26; v. 285; p. 639.
Bernstein, Alex, Chicago, Ill. Neckband for shirts. No. 1,375,350; Apr. 19; v. 285; p. 484.
Berry, Charles W., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Refractory brick. No. 1,373,854; Apr. 5; v. 285; p. 92.
Best, William, Kansas City, Mo. Separator for storage batteries. No. 1,375,550; Apr. 19; v. 285; p. 522.
Betcher, Chester E., Minneapolis, Minn. Smoke and gas burning firebox. No. 1,373,478; Apr. 5; v. 285; p. 19.
Betcher, Chester E., Minneapolis, Minn. Smoke and gas burning firebox. No. 1,373,479; Apr. 5; v. 285; p. 20.
Bethke, John P., assignor of one-half to L. Schlesinger, Milwaukee, Wis. Sensitive-material-marking device. No. 1,374,875; Apr. 12; v. 285; p. 331.
Bethke, John P., assignor of one-half to L. Schlesinger, Milwaukee, Wis. Autographic camera. No. 1,375,815; Apr. 26; v. 285; p. 604.
Bethke, John P., assignor of one-half to L. Schlesinger, Milwaukee, Wis. Making markings on sensitized material. No. 1,375,814; Apr. 26; v. 285; p. 604.
Bethke, John P., Milwaukee, Wis. Autographic camera. No. 1,375,816; Apr. 26; v. 285; p. 604.
Bethlehem Shipbuilding Corporation. (See Ronald, Samuel D., assignor.)
Bethune, Charles W., Buffalo, N. Y. Suction-pump. No. 1,374,808; Apr. 12; v. 285; p. 317.
Bettenburg, Nichlaus C., (See Harman, G., Cannon, and Bettenburg.)
Betulander, Gotthilf A., Södertörns Villastad and N. G. Palmgren, Stockholm, Sweden, assignors to The Relay Automatic Telephone Company, Limited, Strand, London, England. Call-distributing arrangement for telephone plants. No. 1,375,351; Apr. 19; v. 285; p. 484.
Bewley, Claude G., Spokane, Wash., assignor to Spokane Concrete Flower Pot Machine Co. Inc. Method and apparatus of forming concrete pots. No. 1,375,950; Apr. 26; v. 285; p. 631.
Bexell, Carl V., *et al.* (See Boe, Edd, assignor.)
Beyer, Walter E., Indianapolis, Ind. Gas-tank alarm. No. 1,376,386; Apr. 26; v. 285; p. 713.
Biasotti, John, New York, N. Y. Machine for drying feathers. No. 1,374,809; Apr. 12; v. 285; p. 317.
Bierer, Ralph W., Binghamton, N. Y. Box for the toe portions of boots and shoes. No. 1,373,855; Apr. 5; v. 285; p. 92.
Bijur, Joseph, New York, N. Y., assignor to Bijur Motor Appliance Company, Hoboken, N. J. Electrical apparatus for motor-vehicles. No. 1,375,998; Apr. 26; v. 285; p. 639.
Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
Bijur Motor Appliance Company. (See Marcus, Charles, assignor.)
Bilger, Harry E., Monmouth, Ill. Collapsible form for concrete constructions. No. 1,373,548; Apr. 5; v. 285; p. 33.
Billington, John E., Broadheath, assignor to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,373,942; Apr. 5; v. 285; p. 110.
Bindschedler, Emile, Philadelphia, Pa. The recovery of alcohol and ether from admixture with air. No. 1,376,069; Apr. 26; v. 285; p. 654.
Bingaman, Frank, Parkersburg, W. Va. Electrum attachment for pianos. No. 1,374,979; Apr. 19; v. 285; p. 412.
Bingham, Harvey N., Weyburn, Saskatchewan, Canada. Traction-drive. No. 1,375,273; Apr. 19; v. 285; p. 469.
Binkowitz, Birdye. (See Lincecum, Lucullus G., assignor.)
Bird, John. (See Lamb, Elden P., assignor.)
Bird, Reginald W. (See Clapp, Albert L., assignor.)
Birkenmaier, Theodore, St. Louis, Mo. Controlling mechanism for laundry-machines. No. 1,374,810; Apr. 12; v. 285; p. 318.
Bishop, Minnie R., Chicago, Ill. Safety device for bathtubs. No. 1,376,247; Apr. 26; v. 285; p. 687.
Bishopsgate General Trading Company Limited. (See Phillips, John W., assignor.)
Black, David C., Alloa, Scotland, assignor to Parsons Marine Steam Turbine Company Limited, Wallsend-on-Tyne, England. Ship-propulsion installations. No. 1,374,486; Apr. 12; v. 285; p. 255.
Black, John Q., Nashville, Tenn. Truck for motor-driven vehicles. No. 1,375,892; Apr. 26; v. 285; p. 619.
Blaine, Joseph R., assignor to Michle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-register detector. No. 1,374,137; Apr. 5; v. 285; p. 147.
Blair, J. C., Company. (See McSheehy, Bartholomew E., assignor.)
Blake, Charles C., Brookline, Mass. Shank-lasting machine. No. 1,373,402; Apr. 5; v. 285; p. 4.
Blake, Charles C., Brookline, Mass. Vamp-trimming machine. No. 1,373,403; Apr. 5; v. 285; p. 4.
Blake, Charles C., Brookline, Mass. Sole-rounding machine. No. 1,373,404; Apr. 5; v. 285; p. 4.
Blake, Charles C., Brookline, Mass. Welt-shoe. No. 1,375,999; Apr. 26; v. 285; p. 640.
Blakely, William W., and F. W. Knott, Detroit, Mich.; said Knott assignor to said Blakely. Wheel-anchoring device. No. 1,376,186; Apr. 26; v. 285; p. 675.
Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle. No. 1,375,352; Apr. 19; v. 285; p. 485.
Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,375,353; Apr. 19; v. 285; p. 485.
Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle for anhydrous pigments. No. 1,375,354; Apr. 19; v. 285; p. 485.
Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,375,355; Apr. 19; v. 285; p. 485.
Blanchard, George L., Pomona, Calif. Orchard-heater; No. 1,373,647; Apr. 5; v. 285; p. 52.
Blandin, Frederick F., assignor to Racine Phonograph Company, Racine, Wis. Tone-chamber. No. 1,373,943; Apr. 5; v. 285; p. 110.
Blankenborn George S., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Cooling system. No. 1,374,901; Apr. 19; v. 285; p. 298.
Blanks, Albert, assignor to The Nugget Polish Co. Ltd., London, England. Means for facilitating the opening of tins. No. 1,375,551; Apr. 19; v. 285; p. 522.
Blasser, Ernest, Allston, assignor of one-half to G. I. Clayton, Boston, Mass. Ice-cream freezer. No. 1,374,350; Apr. 12; v. 285; p. 229.
Blaw-Knox Company. (See Venable, William M., assignor.)
Bleackacek, John K., Bloomer, Wis. Window-fastener. No. 1,375,769; Apr. 26; v. 285; p. 595.
Bleadon, J. J. (See Meyenberg, William H., assignor.)
Bliss, Herbert R., Niagara Falls, N. Y. Shipping-case. No. 1,375,127; Apr. 19; v. 285; p. 441.
Blocker, Bolling L., Chattanooga, Tenn. Rocking seat for children. No. 1,374,902; Apr. 12; v. 285; p. 398.
Blodgett, William G., Los Angeles, Calif. Well-drilling tool. No. 1,375,817; Apr. 26; v. 285; p. 604.
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Seasoning steel articles. No. 1,373,589; Apr. 5; v. 285; p. 41.
Blood, Orville M., Chicago, Ill. Combined collar-button and tie-slip. No. 1,374,351; Apr. 12; v. 285; p. 229.
Bloom, Harry, M. Gerber, and J. Piterman, assignors to Bloom, Gerber, and Piterman, Chicago, Ill. Article of furniture. No. 1,374,716; Apr. 12; v. 285; p. 300.
Bloomstein, Max, Nashville, Tenn. Shoe-shining device. No. 1,375,625; Apr. 19; v. 285; p. 536.
Bloxsom, John J., and E. E. Myers, Brookville, Pa. Glass-drawing apparatus. No. 1,375,818; Apr. 26; v. 285; p. 605.
Blue, John, Laurinburg, N. C. Planter. No. 1,374,632; Apr. 12; v. 285; p. 284.
Blume, George F., Philadelphia, Pa. Motor-support. No. 1,373,708; Apr. 5; v. 285; p. 63.
Blumenberg, Henry, Jr., Barstow, assignor to J. H. Blumenberg, Huntington Park, Calif. Primer for internal combustion engines. No. 1,375,820; Apr. 26; v. 285; p. 605.
Blumenberg, Henry, Jr., Oro Grande, Calif. Process and apparatus for the electrolytic generation of arsin, phosphin, and stibin. No. 1,375,819; Apr. 26; v. 285; p. 605.
Blumenberg, John H. (See Blumenberg, Henry, Jr., assignor.)
Bocchetti, William, Brooklyn, N. Y. Silver-solder. No. 1,375,552; Apr. 19; v. 285; p. 522

Bode, Charles O., New York, N. Y. Dough forming and cutting machine. No. 1,373,791; Apr. 5; v. 285; p. 79.
Bodell & Co. (See Hineline, Edson S., assignor.)
Bodmer, Gottfried, Künsnacht, near Zurich, assignor to H. Meier, Villmergen, Aargau, Switzerland. Coupling for tension members. No. 1,373,590; Apr. 5; v. 285; p. 41.
Boe, Edd, assignor of one-third to E. A. Halseth and one-third to C. V. Bexell, Clearbrook, Minn. Knife. No. 1,373,993; Apr. 5; v. 285; p. 120.
Boegershausen, John, *et al.* (See Gregory, William F., assignor.)
Boehck, William E., assignor to Revolvator Company, Jersey City, N. J. Elevator safety apparatus. No. 1,373,944; Apr. 5; v. 285; p. 110.
Boesch, Harry L., Washington, D. C., assignor to Government of the United States, represented by the Secretary of the Navy. Torpedo. No. 1,375,821; Apr. 26; v. 285; p. 605.
Boesel, Aloysius G. (See Bosworth, C. M., and Boesel.)
Boggio, Giusto, Royalton, Ill. Mine-door-operating mechanism. No. 1,376,248; Apr. 26; v. 285; p. 687.
Bogre, Michael, Detroit, Mich. Washing-machine. No. 1,373,792; Apr. 5; v. 285; p. 79.
Bohlman, Huldreich A., Milwaukee, Wis. Power-driven shoe-shine brush. No. 1,374,181; Apr. 12; v. 285; p. 197.
Bohnenblust, Arnold, Riley, Kans. Straw-feeder. No. 1,375,204; Apr. 19; v. 285; p. 456.
Boiler, Edward V., West Side, Iowa. Liquid-gage. No. 1,375,274; Apr. 19; v. 285; p. 469.
Boles, Wiley E., Indianapolis, Ind. Casing for automobile signal-lights. No. 1,373,945; Apr. 5; v. 285; p. 111.
Bolline, Louis L., *et al.* (See Barchiesi, Aurelio, assignor.)
Bolton, George W., Dallas, Tex. Metallic mold for concrete walls. No. 1,374,717; Apr. 12; v. 285; p. 300.
Bond, Charles L., Philadelphia, Pa. Automatic weighing-machine. No. 1,374,876; Apr. 12; v. 285; p. 331.
Bonnet, Antoine H. T., *et al.* (See Cambay, Charles A., assignor.)
Bonniwell, Thomas J., Chicago, Ill. Stripping mechanism for wringer-rolls. No. 1,375,356; Apr. 19; v. 285; p. 485.
Bonroe, Frank A., Webster Groves, Mo. Belt-shifting device. No. 1,374,811; Apr. 12; v. 285; p. 318.
Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Railway-car-wall construction. No. 1,374,421; Apr. 12; v. 285; p. 243.
Boone, Daniel M., Harrisburg, Tex. Tire-tool. No. 1,376,070; Apr. 26; v. 285; p. 654.
Booth Electric Furnace Co., The. (See Booth, W. K., and Morris, assignors.)
Booth Electric Furnace Co., The. (See Booth, William K., assignor.)
Booth, T. F., Co. (See Mullins, Fred J., assignor.)
Booth, William K., assignor to The Booth Electric Furnace Co., Chicago, Ill. Furnace. No. 1,376,071; Apr. 26; v. 285; p. 654.
Booth, William K., and W. L. Morris, assignors to The Booth Electric Furnace Co., Chicago, Ill. Electric furnace. No. 1,376,072; Apr. 26; v. 285; p. 654.
Booty, Stanley S. (See Slack, Harry F., assignor.)
Borcherdt, Frederick H., Oak Park, Ill. Infant food. No. 1,375,893; Apr. 26; v. 285; p. 620.
Borcherdt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Froth-breaking device. No. 1,376,073; Apr. 26; v. 285; p. 655.
Borgeson, Charles A., San Francisco, Calif. Coupling. No. 1,375,822; Apr. 26; v. 285; p. 605.
Borland, Walter S., Saskatoon, Saskatchewan, Canada. Window attachment. No. 1,373,709; Apr. 5; v. 285; p. 63.
Bornhaupt, Florence, assignor to M. Levy, New York, N. Y. Reversible powder-puff. No. 1,374,903; Apr. 19; v. 285; p. 308.
Borst, Andrew J., Jr., Buffalo, N. Y. Vehicle. No. 1,374,352; Apr. 12; v. 285; p. 229.
Borstad, Gilbert, Starbuck, Minn. Harrow with cleaning attachment. No. 1,373,946; Apr. 5; v. 285; p. 111.
Borzykowski, Benno, Cleveland, Ohio. The production and simultaneous conversion of articles obtained from solutions into their ultimate forms. No. 1,375,823; Apr. 26; v. 285; p. 606.
Borzykowski, Benno, Paris, France. Production and simultaneous conversion of articles obtained from solutions into the ultimate forms. No. 1,375,824; Apr. 26; v. 285; p. 606.
Bosch, Pompein, Elgin, Ill. Boring-machine. No. 1,373,856; Apr. 5; v. 285; p. 92.
Bosch, Pompein, Elgin, Ill. Engine-cylinder-burnishing tool. No. 1,373,857; Apr. 5; v. 285; p. 93.
Bossart, Hans, Los Angeles, Calif. Aeroplane. No. 1,376,000; Apr. 26; v. 285; p. 640.
Bossert, Charles P., Milwaukee, Wis. Dispensing-valve. No. 1,374,980; Apr. 19; v. 285; p. 413.
Bosworth, Cyrus M., Lakewood, and A. G. Boesel, Cleveland Heights, Ohio. Electric water-heater. No. 1,375,357; Apr. 19; v. 285; p. 485.
Botta, Ferruccio. (See Arato, Achille, assignor.)
Bottomley, Arthur L., assignor to F. H. Sadler Company, Attleboro, Mass. Soft-collar holder. No. 1,374,276; Apr. 12; v. 285; p. 214.
Bouchardon, Victor J. F., Lyon, France. Generator of high-frequency oscillations for wireless telegraphy. No. 1,373,710; Apr. 5; v. 285; p. 64.
Boughton, Marcus D., Jefferson, N. Y. Delivery mechanism. No. 1,374,981; Apr. 19; v. 285; p. 413.
Bourne, Alexander P., Barrington, R. I. Pneumatic spring. No. 1,373,711; Apr. 5; v. 285; p. 64.
Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Trial-frame. No. 1,375,669; Apr. 26; v. 285; p. 578.
Bowen, James M., Cape May Court-House, N. J., assignor to S. L. Allen & Co., Inc. Agricultural implement. No. 1,373,868; Apr. 5; v. 285; p. 93.
Bowen, William E., East Orange, N. J. Garter-clasp. No. 1,375,770; Apr. 26; v. 285; p. 595.
Bowie, Annie M., Washington, D. C. Safety-holder for sparklers and the like. No. 1,374,812; Apr. 12; v. 285; p. 318.
Bowman, Newton K., Canton, Ohio. Automatic mine-door. No. 1,374,547; Apr. 12; v. 285; p. 267.
Bowser, L. D. (See Dooley, William D., assignor.)
Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicator for automobiles. No. 1,373,859; Apr. 5; v. 285; p. 93.
Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicating device for internal-combustion engines. No. 1,373,860; Apr. 5; v. 285; p. 94.
Boyd, Littleton A., Illiopolis, Ill. Combined stepladder and extension-ladder. No. 1,374,548; Apr. 12; v. 285; p. 267.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Commodity-cabinet. No. 1,374,549; Apr. 12; v. 285; p. 268.
Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
Boyer, Harry O., Proberta, Calif. Lubricator. No. 1,375,648; Apr. 19; v. 285; p. 541.
Boyer, Roy L., Madison, Wis. Belt-buckle. No. 1,375,894; Apr. 26; v. 285; p. 620.
Boyle, Frederick J. (See Siegel, F. W., Boyle, and Sipp.)
Boyle, John E., Waterbury, Conn. Corner-stand. No. 1,374,633; Apr. 12; v. 285; p. 284.
Boyle, John T. (See Hunt, David, assignor.)
Boyle, Willis J., Sr., *et al.* (See Stephens, Samuel F., assignor.)
Boynton, George W., Watertown, Mass. Apron for automobiles. No. 1,374,353; Apr. 12; v. 285; p. 229.
Boynton, George W., Watertown, Mass. Holder for automobile-licenses. No. 1,374,182; Apr. 12; v. 285; p. 195.
Bradford, Wallace K., Los Angeles, Calif. Self-adjusting caster. No. 1,373,648; Apr. 5; v. 285; p. 52.
Bradham, C. D., *et al.* (See Comstock, Francis M., assignor.)
Bradt, Harold J., Pontiac, Mich. Mold structure. No. 1,375,771; Apr. 26; v. 285; p. 596.
Brady, John B., Somerset, Md. Memorandum device. No. 1,373,591; Apr. 5; v. 285; p. 41.
Bragg, Gilbert A., Thomson, Nev., assignor, by mesne assignments, to Texas Gulf Sulphur Company, Bay City, Tex. Recovery of sulfur from its ores. No. 1,374,422; Apr. 12; v. 285; p. 242.
Brainerd, Kenneth, Rochester, N. Y. Fan. No. 1,373,480; Apr. 5; v. 285; p. 20.
Branagan, John J., McKees Rocks, Pa. Rail-clamp. No. 1,373,592; Apr. 5; v. 285; p. 41.
Branch, Charles S., Hammond, Ind. Cigarette-forming device. No. 1,376,074; Apr. 26; v. 285; p. 655.
Branch, Harry C. (See Leece, B. M., and Branch.)
Brand, George P., New York, N. Y. Action for pneumatic musical instruments. No. 1,373,593; Apr. 5; v. 285; p. 41.
Brasseur, Charles L. A., Orange, N. J. Half-tone screen. No. 1,374,813; Apr. 12; v. 285; p. 318.
Braun, Carl F., San Francisco, Calif. Heat-exchanger. No. 1,376,135; Apr. 26; v. 285; p. 666.
Brauner, Pincus, and E. Metzner, New York, N. Y. Abrasive roller. No. 1,374,052; Apr. 5; v. 285; p. 131.
Brawner, Henry N., Jr., Washington, D. C. Door-latch. No. 1,374,053; Apr. 5; v. 285; p. 131.
Brazeau, Pierre, Racine, Wis. Locking-rail for automobiles. No. 1,375,553; Apr. 19; v. 285; p. 523.
Breese, Robert P., New York, N. Y. Toy tank-car. No. 1,373,649; Apr. 5; v. 285; p. 52.
Bremer, Edwin H., Freeport, Ill. Grain-loader. No. 1,374,423; Apr. 12; v. 285; p. 243.
Breneman, William P., and H. G. Rowell, Auburn, Me. Mop-holder. No. 1,374,814; Apr. 12; v. 285; p. 318.
Breul, Richard A., Bridgeport, Conn. Miter-square. No. 1,374,815; Apr. 12; v. 285; p. 319.
Breul, Richard A., Bridgeport, Conn. Miter-square. No. 1,374,816; Apr. 12; v. 285; p. 319.
Brettner, Rudolf, Newark, N. J. Cuff-link. No. 1,376,075; Apr. 26; v. 285; p. 655.
Breuning, Eugen O., Hoboken, N. J. Controlling device for phonographs. No. 1,373,994; Apr. 5; v. 285; p. 121.
Brewington, Philip J., Temple, Tex. Animal-trap. No. 1,373,594; Apr. 5; v. 285; p. 42.
Bridge, Alexander C., Lachine, Quebec, Canada. Spring lock-washer. No. 1,374,054; Apr. 5; v. 285; p. 131.
Bridges, Earl F., and C. K. Ward, Lincoln, Nebr. Water-check for ditches. No. 1,374,817; Apr. 12; v. 285; p. 319.

Bridges, Josiah S., Chicago, Ill. Dental impression-tray. No. 1,374,183; Apr. 12; v. 285; p. 197.
Bridges, Lewis B., Brooklyn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,375,358; Apr. 19; v. 285; p. 485.
Bridges, Wiley B., Texarkana, Ark. Roller-bearing car-wheel. No. 1,375,554; Apr. 19; v. 285; p. 623.
Bridgwater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,375,772; Apr. 26; v. 285; p. 596.
Bridwell, Douglass V. (See Price, C. C., and Bridwell.)
Briggs & Stratton Company. (See Smith, Reuben S., assignor.)
Bright, Martin C., Indianapolis, Ind. Fuel-control system for explosion-engines. No. 1,374,983; Apr. 19; v. 285; p. 413.
Briles, Larkin, Lake City, assignor to J. E. Leonard, Davis Creek, Calif. Wrench. No. 1,373,861; Apr. 5; v. 285; p. 94.
Brinkman, Adolph. (See Brinkman, Carl F. and A.)
Brinkman, Carl F. and A., Milwaukee, Wis. Automatic jack for vehicles. No. 1,373,549; Apr. 5; v. 285; p. 33.
British Dyestuffs Corporation Limited. (See Perkin, Arthur G., assignor.)
British Westinghouse Electric and Manufacturing Company Limited, The. (See Baumann, Karl, assignor.)
Britton, Ernest C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,374,184; Apr. 12; v. 285; p. 197.
Brizendine, Samuel T., Kansas City, Mo. Double-acting pump and operating mechanism. No. 1,376,315; Apr. 26; v. 285; p. 700.
Brock, Frank P. (See Redman, L. V., Weith, and Brock.)
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Toe-softening machine. No. 1,373,481; Apr. 5; v. 285; p. 20.
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,373,482; Apr. 5; v. 285; p. 20.
Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. End-lasting. No. 1,373,483; Apr. 5; v. 285; p. 21.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,376,387; Apr. 26; v. 285; p. 714.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shaping-machine for shoes. No. 1,376,388; Apr. 26; v. 285; p. 714.
Brockmeyer, Charles F., Bennett, Iowa. Whole-wheat food product. No. 1,374,185; Apr. 12; v. 285; p. 197.
Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of artificial viscose silk. No. 1,374,718; Apr. 12; v. 285; p. 300.
Brook, John O., Curban, New South Wales, Australia. Power-driven stripper or header-harvester. No. 1,374,424; Apr. 12; v. 285; p. 243.
Brooks, Clayton A., Girard, Pa. Electrically-actuated track-trip. No. 1,373,595; Apr. 5; v. 285; p. 42.
Brooks, Herbert, assignor to Petters Limited, Yeovil, England. Means for reversing internal-combustion engines. No. 1,373,484; Apr. 5; v. 285; p. 21.
Brown, A. G., Boveri & Cie. (See Güttinger, Heinrich, assignor.)
Brown, Augustus F., Havre de Grace, Md. Metallic railway-tie. No. 1,373,947; Apr. 5; v. 285; p. 111.
Brown, Charles L., Robinson, Kans. Box-forming machine. No. 1,375,275; Apr. 19; v. 285; p. 470.
Brown, Charles R., Minneapolis, assignor of one-half to W. Stowell, St. Paul, Minn. Attachment for platen printing-presses. No. 1,376,187; Apr. 26; v. 285; p. 675.
Brown Company. (See Parker, Howard, assignor.)
Brown, David F., Boundbrook, N. J. Airship. No. 1,374,487; Apr. 12; v. 285; p. 256.
Brown, Frank A., Indianapolis, Ind., assignor to G. & J. Tire Company. Curing and shaping articles of rubberized fabric. No. 1,373,405; Apr. 5; v. 285; p. 5.
Brown, J. D. (See Hohnsbeen, George H., assignor.)
Brown & Sharpe Manufacturing Company. (See Howard, Clarence J., assignor.)
Brown, Tom. (See Hasty, John B., assignor.)
Brown, William E., Ashtabula, assignor of one-half to W. C. Harvey, Akron, and one-half to B. Perrin, Geneva, Ohio. Automatic fluid-regulating device. No. 1,375,555; Apr. 19; v. 285; p. 523.
Brown, William H. E., *et al.* (See Lindsay, John, assignor.)
Brown, William M., E. B. Entwisle, and H. C. Stiff, Johnstown, Pa. Switch-arm. No. 1,373,406; Apr. 5; v. 285; p. 5.
Brown, William S. (See Davis, C. W., and Brown.)
Browne, Warren L., Vallejo, Calif. Sandpaper-drum. No. 1,374,425; Apr. 12; v. 285; p. 244.
Brownlee, Roy H., Pittsburgh, Pa. Lubricating-oil. No. 1,374,277; Apr. 12; v. 285; p. 215.
Brulngton, George H., Albuquerque, N. Mex. Match-safe and combined dispensing and striking mechanism therefor. No. 1,374,354; Apr. 12; v. 285; p. 229.
Bruner, Joseph V., David City, assignor to E. L. Spatz, Bruno, Nebr. Clutch operating and holding device. No. 1,375,895; Apr. 26; v. 285; p. 620.
Bryan, George H. (See Bullock, E. W., Earl, and Bryan.)
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Bryant, Joseph D., Appleby, Tex. Railway-tie. No. 1,375,773; Apr. 26; v. 285; p. 596.
Buchsbaum, Herbert J., Chicago, Ill. Belt-buckle. No. 1,375,774; Apr. 26; v. 285; p. 596.
Buckeye Iron and Brass Works. (See Eickman, Elmer H., assignor.)
Buckeye Steel Castings Company. (See Whitridge, John C., assignor.)
Bucklin, Lorenzo O., trustee. (See Dock, Herman, assignor.)
Buckman & Pritchard. (See Buckman, H. H., and Pritchard, assignors.)
Buckmnn, Henry H., Jacksonville, Fla., and G. A. Pritchard, New York, N. Y., assignors to Buckman & Pritchard Inc., Jacksonville, Fla. Highly-refractory article and producing the same. No. 1,375,077; Apr. 19; v. 285; p. 432.
Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Thrust-bearing. No. 1,375,359; Apr. 19; v. 285; p. 485.
Bucyrus Company. (See Wilkie, E. J., Stevens, and Lehman, assignors.)
Bucyrus Machine and Tool Co. (See Crum, Hollis B., assignor.)
Buda Company, The. (See Dyer, Walter C., assignor.)
Budlong, Frank M., San Jose, Calif. Deep-well pump. No. 1,373,712; Apr. 5; v. 285; p. 64.
Budzinsky, Tanas, New York, N. Y. Combination-faucet. No. 1,375,205; Apr. 19; v. 285; p. 457.
Buechel, Carl, New Glarus, Wis. Scaffold-bracket. No. 1,375,078; Apr. 19; v. 285; p. 432.
Buechler, John R., Akron, Ohio. Patch for pneumatic tires. No. 1,375,825; Apr. 26; v. 285; p. 606.
Buehler, John J., Alliance, Ohio. Potato-bagging device. No. 1,376,249; Apr. 26; v. 285; p. 687.
Buell, Charles H., assignor to Variety Manufacturing Company, Chicago, Ill. Automatic fire-shutter. No. 1,373,076; Apr. 26; v. 285; p. 655.
Buente, Charles F., Avalon, Pa. Jarring-machine. No. 1,373,948; Apr. 5; v. 285; p. 111.
Buffalo Metal Goods Company. (See Emerson, William F., assignor.)
Bufton, Frank H. (See Ott, H. N., and Bufton.)
Bugg, Owen T., Poughkeepsie, N. Y., assignor, by mesne assignments, to Canvas Inner Tube Company. Inner tube for tires. No. 1,373,485; Apr. 5; v. 285; p. 21.
Bullock, Arthur R., Lakewood, Ohio. Electrical system and control therefor. No. 1,375,486; Apr. 19; v. 285; p. 510.
Bullock, Edward W., S. H. Earl and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Brace for gear-cutting machines. No. 1,373,407; Apr. 5; v. 285; p. 6.
Bumpass, Leonard E., Dallas, Tex. Means for protecting vaults. No. 1,374,055; Apr. 5; v. 285; p. 131.
Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,375,128; Apr. 19; v. 285; p. 442.
Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,375,670; Apr. 26; v. 285; p. 578.
Buonocore, Roberto, and F. Capaldo, Naples, Italy. Explosion-motor. No. 1,373,862; Apr. 5; v. 285; p. 94.
Burch, Julius G., Bartlesville, Okla. Device for cutting wire cable. No. 1,374,278; Apr. 12; v. 285; p. 215.
Burgess Battery Company. (See Maisel, Lorenz, assignor.)
Burgess, George F. (See Burgess, John W. and G. F.)
Burgess, John W. and G. F., Kansas City, Mo. Inner tire-cushion. No. 1,375,032; Apr. 19; v. 285; p. 423.
Burgess, William S., Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation. Pontoon-mounting for hydroaeroplanes. No. 1,373,408; Apr. 5; v. 285; p. 5.
Burkam, John. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Burke, Charles A. (See Palmer, Herbert R., assignor.)
Burke, Clarence B., Plymouth Meeting, Pa. Draft-controlling device for heaters. No. 1,375,248; Apr. 19; v. 285; p. 464.
Burke, Wilbur B., Cleveland, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio. Apparatus for vulcanizing rubber. No. 1,375,360; Apr. 19; v. 285; p. 486.
Burkhardt, Daniel D. (See Gregory, William S., assignor.)
Burkhardt, Herman, Rueschlikon, Switzerland. Fountain drawing-pen. No. 1,374,426; Apr. 12; v. 285; p. 244.
Burkholder, Melvin H. (See Detwiler, F. J., and Burkholder.)
Burkholder, Oscar E., San Francisco, Calif. Securing-pin. No. 1,373,596; Apr. 5; v. 285; p. 42.
Burleson, Ben N. (See Williamson, Daniel E., assignor.)
Burner, William L., assignor to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Truck-coupling. No. 1,375,775; Apr. 26; v. 285; p. 596.
Burnett, Charles E., Wolcott, N. Y. Vehicle-body support. No. 1,375,556; Apr. 19; v. 285; p. 523.
Burns, John E., Flushing, N. Y. Casting-machine. No. 1,373,794; Apr. 5; v. 285; p. 80.
Burrell, William C., Kankakee, Ill., and J. Bellingham, assignors to said Bellingham and W. B. Chennells, Masterton, New Zealand. Block-press. No. 1,374,818; Apr. 12; v. 285; p. 319.
Burris, George V., Courtland, Calif. Signal. No. 1,374,427; Apr. 12; v. 285; p. 244.

Busch-Sulzer Bros.-Diesel Engine Company. (See Hefti, Wilhelm, assignor.)

Busick, Paul M., Memphis, Tenn. Booth. No. 1,375,557; Apr. 19; v. 285; p. 523.

Butler, John S., and S. G. Green, U. S. Army. Bipod. No. 1,375,487; Apr. 19; v. 285; p. 510.

Butner, William R., Yerington, Nev. Ratchet-chain block. No. 1,375,558; Apr. 19; v. 285; p. 523.

Butterworth, Samuel, Newton, Mass. Collar-button. No. 1,374,355; Apr. 12; v. 285; p. 229.

Buys, Henry D., Emmett, Idaho. Toy catapult. No. 1,376,776; Apr. 26; v. 285; p. 596.

Buzzaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Coin-controlled locker-lock. No. 1,373,863; Apr. 5; v. 285; p. 94.

Byer, John H., Orrtanna, Pa. Shears. No. 1,374,819; Apr. 12; v. 285; p. 319.

Byerlein, Arthur A., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Adjustable motor-mount. No. 1,373,795; Apr. 5; v. 285; p. 80.

Byrns, Garrett, and H. Sanche, Rainy River, Ontario, Canada. Saw-set. No. 1,374,279; Apr. 12; v. 285; p. 215.

Cadillac Washing Machine Co. (See Payne, H. D., De Clerque, and Sloberg, assignors.)

Cadwallader, Harry, Jr., Philadelphia, Pa. Machine-clamp. No. 1,376,077; Apr. 26; v. 285; p. 655.

Calta, James W., Platte, S. D. Engine-piston. No. 1,373,714; Apr. 5; v. 285; p. 65.

Cambay, Charles A., assignor to A. H. T. Bonnet and J. T. F. Conti, Paris, France. Change-speed device. No. 1,373,715; Apr. 5; v. 285; p. 65.

Camel Company. (See Downing, Ira S., assignor.)

Cameron, Duncan, Edinburgh, Scotland. Fountain and other reservoir pen. No. 1,375,559; Apr. 19; v. 285; p. 523.

Cameron, William J., Chicago, Ill. Retractor. No. 1,374,984; Apr. 19; v. 285; p. 413.

Cammen, Leon, New York, N. Y. Casting metal tubing. No. 1,375,826; Apr. 26; v. 285; p. 606.

Camp, Curtis B., *et al.*, trustees. (See Chandler, Milford G., assignor.)

Camp, Luther S., Rockmart, Ga. Collapsible truck-top. No. 1,376,250; Apr. 26; v. 285; p. 688.

Campagnie D'Applications Mecaniques. (See Rouanet, Louis.)

Campbell, David N. E., Baltimore, Md. Germicide-brush. No. 1,375,560; Apr. 19; v. 285; p. 524.

Campbell, Harry E. (See Elliott, Irving H., assignor.)

Campbell, Nera H. (See Holmes, D. R., and Campbell.)

Campbell, Sterling H., St. Louis, Mo. Brake-rod jaw. No. 1,375,361; Apr. 19; v. 285; p. 486.

Cannon, George B., Jr. (See Howard, F. W. and Cannon.)

Cannon, Thomas E. (See Herman, G., Cannon, and Bettenburg.)

Canvas Inner Tube Company. (See Bugg, Owen T., assignor.)

Capaldo, Francesco. (See Buonocore, R., and Capeldo.)

Capstain Glass Company. (See Kucera, Peter, assignor.)

Car Fastener Company. (See Carr, Fred S., assignor.)

Carborundum Company, The. (See Hartmann, Miner L., assignor.)

Card, George G., assignor to The Columbus Climax Rubber Company, Columbus, Ohio. Tire-tube. No. 1,374,634; Apr. 12; v. 285; p. 284.

Cardone, P., G. Fumagalli, and C. Surico, New York, N. Y. Dough-cutting machine. No. 1,373,796; Apr. 5; v. 285; p. 80.

Carey, John J., Brooklyn, N. Y. Automatic valve for gas-cocks and the like. No. 1,375,362; Apr. 19; v. 285; p. 486.

Carey, William P., New Orleans, La. Rat-guard. No. 1,373,597; Apr. 5; v. 285; p. 42.

Carillon, Lewis G., Barberton, Ohio. Tire construction. No. 1,374,904; Apr. 19; v. 285; p. 208.

Carlin, William J., Vallejo, Calif. Screwdriver attachment. No. 1,374,057; Apr. 5; v. 285; p. 132.

Carlotti, Joseph J., New York, N. Y. Therapeutic apparatus. No. 1,375,652; Apr. 19; v. 285; p. 542.

Carlson, Alder G., Moose Lake, Minn. Flytrap. No. 1,373,650; Apr. 5; v. 285; p. 52.

Carlson, Arnold G., Paterson, N. J. Automatic peening apparatus for piston-rings. No. 1,374,877; Apr. 12; v. 285; p. 331.

Carlson, Axel A. (See Rabezzana, Hector, assignor.)

Carlson, Charles J., Helena, Mont. Sawing-machine. No. 1,373,864; Apr. 5; v. 285; p. 94.

Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Pressed-steel ball crank-handle. No. 1,374,186; Apr. 12; v. 285; p. 197.

Carlson, Leroy, Hancock, Minn. Hoe-cleaner. No. 1,373,486; Apr. 5; v. 285; p. 21.

Carlsson, Olof, and E. Thall, Stockholm, Sweden, assignors to Atlas Powder Company, Wilmington, Del. Reducing the viscosity of viscous solutions of nitrocellulose and other esters. No. 1,375,208; Apr. 19; v. 285; p. 457.

Carlstrom, Knut S., assignor of one-half to J. H. Stndholme, Waltham, Mass. Recoil-pawl. No. 1,376,078; Apr. 26; v. 285; p. 655.

Carman, Frank V., Oakland, Calif. Rail-joint-adjusting device. No. 1,373,598; Apr. 5; v. 285; p. 42.

Caron, Paul L. M., Paris, France. Manufacture of reinforced or ordinary concrete pipes by centrifugal force. No. 1,375,206; Apr. 19; v. 285; p. 457.

Carpenter, Charles U., Dayton, Ohio. Sheet-metal structure. No. 1,373,865; Apr. 5; v. 285; p. 95.

Carpenter, Grant, Eldred Pa. Sidehill-plow. No. 1,375,626; Apr. 19; v. 285; p. 536.

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,376,001; Apr. 26; v. 285; p. 640.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,376,002; Apr. 26; v. 285; p. 640.

Carr, John J., Yonkers, N. Y. Ticket-case. No. 1,373,797; Apr. 5; v. 285; p. 81.

Carrey Rotary Engine Company. (See Carrey, John O., assignor.)

Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Packing pistons. No. 1,375,207; Apr. 19; v. 285; p. 457.

Carrie, James, Newark, N. J., assignor to W. D. Sawyer, Milwaukee, Wis. Grinding and polishing machine. No. 1,375,129; Apr. 19; v. 285; p. 442.

Carrolina Automatic Machinery Company. (See Martin, J. A., and Lee, assignors.)

Carson, Essie C., administratrix. (See Carson, Renick H.)

Carson, George J., Worcester, Mass. Centering-machine. No. 1,375,896; Apr. 26; v. 285; p. 620.

Carson, Livina P., administratrix. (See Carson, Walter W.)

Carson, Renick H., deceased, Kansas City, Mo., E. C. Carson, administratrix. Fluid transmission and clutch mechanism. No. 1,374,985; Apr. 19; v. 285; p. 413.

Carson, Walter W., deceased; L. P. Carson, administratrix, Tipton, Ind. Back-stop attachment for straw-stackers. No. 1,376,251; Apr. 26; v. 285; p. 688.

Carter, Frederick E., Yuma, Colo. Truck. No. 1,374,986; Apr. 19; v. 285; p. 414.

Carter, Julius P., *et al.* (See Sawtelle, Edmund M., assignor.)

Carter, Ralph B., Company. (See Carter, Ralph B., assignor.)

Carter, Ralph B., Haworth, N. J., assignor to Ralph B. Carter Company, New York, N. Y. Pump. No. 1,374,156; Apr. 5; v. 285; p. 150.

Cartier, Joseph, and C. Delcourt, Fall River, Mass.; said Delcourt assignor, by mesne assignments, of all his right to J. E. Rochette, Norwich, Conn. Loom-check. (Reissue.) No. 15,081; Apr. 12; v. 285; p. 335.

Cartwright, Hattie H. (See Ray, William L., assignor.)

Cartzdafner, Roy E., Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y. Dump-car. No. 1,375,561; Apr. 19; v. 285; p. 524.

Cartzdafner, Roy E., Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y. Shock-absorber for dump-cars. No. 1,375,563; Apr. 19; v. 285; p. 524.

Cartzdafner, Roy E., Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y. Dump-car. No. 1,375,564; Apr. 19; v. 285; p. 524.

Cartzdafner, Roy E., and H. A. Ketcham, Passaic, N. J., assignors, by mesne assignments, to Magor Car Corporation, Valve mechanism. No. 1,375,562; Apr. 19; v. 285; p. 524.

Cary, Frederick S., and G. E. Russell, Wilmington, Calif. Liquid-dispensing device. No. 1,375,363; Apr. 19; v. 285; p. 486.

Case, B. C. (See Baldwin, Jesse, assignor.)

Casey, Thomas. (See Koski, A. W., and Casey.)

Casey, William J., A. Haanes, Detroit, Mich. Hollow-walled receptacle. No. 1,374,905; Apr. 19; v. 285; p. 398.

Caspar, Charles H., Philadelphia, Pa. Aircraft. No. 1,373,409; Apr. 5; v. 285; p. 5.

Cass, Freeman, Brooklyn, assignor to Mitchell-Bissell Co., New York, N. Y. Thread-guide. No. 1,373,487; Apr. 5; v. 285; p. 21.

Castelle, James. (See Regen, O., and Castelle.)

Caterson, Edward. (See Loons, J. E., and Robinson, assignors.)

Cazel, Cassius E., and J. W. Le Craw, Cincinnati, Ohio. Brush. No. 1,374,820; Apr. 12; v. 285; p. 320.

Central Oil & Gas Stove Co. (See White, Fred E., assignor.)

Central Scientific Company. (See de Khotinsky, Achilles, assignor.)

Cerf, Lester, Brooklyn, N. Y. Heel-fastener. No. 1,375,671; Apr. 26; v. 285; v. 578.

Chadbourne, Vaughn R., Beaumont, Tex. Oil-burner. No. 1,376,252; Apr. 26; v. 285; p. 688.

Chadderdon, Ellis H., Cambridge, Nebr. Wheel attachment. No. 1,374,428; Apr. 12; v. 285; p. 244.

Chadderdon, Ellis H., Cambridge, Nebr. Attachment for tractor-wheels. No. 1,374,429; Apr. 12; v. 285; p. 244.

Chamberlin, Guy B., Van Nuys, assignor of one-half to J. L. Hall, Hynes, Calif. Bean-harvester. No. 1,375,565; Apr. 19; v. 285; p. 525.

Chamberlin, Lewis A., De Soto, Mo. Heel-fastening device. No. 1,375,897; Apr. 26; v. 285; p. 620.

Champagne, Thomas. (See Macisaac, A. H., and Champagne.)

Champion, Albert, and A. Schmidt, assignors to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,375,079; Apr. 19; v. 285; p. 432.

Champion Ignition Company. (See Champion, A., and Schmidt, assignors.)

Champlin, Charles A., Hope, Ark. Valve. No. 1,375,566; Apr. 19; v. 285; p. 525.

Chandler, Charles H., Newport, R. I. Plating. No. 1,373,488; Apr. 5; v. 285; p. 22.

Chandler, Milford G., Chicago, assignor, by mesne assignments, to L. A. Williams, Evanston, and C. B. Camp, Chicago, Ill., trustees. Carbureter. No. 1,373,550; Apr. 5; v. 285; p. 33.

Chaney, Reuben, Fort Worth, Tex. Valve-lifter. No. 1,375,627; Apr. 19; v. 285; p. 537.

Chappell, Howard F., New York, N. Y. Drying finely-divided materials. No. 1,375,080; Apr. 19; v. 285; p. 433.

Charles, Edward S., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Lever mechanism for clutches. No. 1,373,410; Apr. 5; v. 285; p. 6.

Chase Companies, The. (See Recker, Adolph C., assignor.)

Chase, Elroy A., Northfield, Vt. Chuck. No. 1,375,777; Apr. 26; v. 285; p. 597.

Chatain, Henri G., assignor to General Electric Company, Erie, Pa. Combustion-chamber. No. 1,376,003; Apr. 26; v. 285; p. 640.

Chattstrom, E. Anders, Davenport, Iowa. Ditching-machine. No. 1,374,488; Apr. 12; v. 285; p. 256.

Chauncey, Albert B., Revere, Mass. Tie. No. 1,373,949; Apr. 5; v. 285; p. 111.

Chefer, John, Chester, Pa. Telephone-mouthpiece. No. 1,375,209; Apr. 19; v. 285; p. 457.

Chemical Fuel Company of America. (See Stevens, Elbridge W., assignor.)

Chemische Fabrik Griesheim-Elektron. (See Pistor, G., Beleisten, and Beck, assignors.)

Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-driven compressor. No. 1,374,906; Apr. 19; v. 285; p. 399.

Chennells, William B. (See Burrell, W. C., and Bellingham, assignors.)

Cherba, George, Jeddo, Pa. Stone-picker. No. 1,374,480; Apr. 12; v. 285; p. 256.

Chevalier, Mary F., Baldwin Park, Calif. Bath-spray. No. 1,374,430; Apr. 12; v. 285; p. 245.

Chicago Machine & Motor Mfg. Co. (See Pearson, Carl F., assignor.)

Chicago Standard Metallic Packing Company. (See Badeker, John, assignor.)

Childers, Thomas, Zeigler, Ill. Self-latching gate. No. 1,374,878; Apr. 12; v. 285; p. 331.

Chilowsky, Constantin, Paris, France. Projectile. No. 1,376,316; Apr. 26; v. 285; p. 701.

Chisholm, Daniel G., Seattle, Wash. Heating device for internal-combustion engines. No. 1,374,280; Apr. 12; v. 285; p. 215.

Chmielowski, Peter W., Chicago, Ill. Table. No. 1,375,488; Apr. 19; v. 285; p. 510.

Chrisman, Charles S., West Chester, Pa. Chamber-head. No. 1,374,490; Apr. 12; v. 285; p. 256.

Christensen, Nils, Boston, Mass. Headpiece for metallic piccolos. No. 1,376,004; Apr. 26; v. 285; p. 641.

Christianson, Louis J. (See Schopf, M. F., and Christianson.)

Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governor for steam-engines. No. 1,373,866; Apr. 5; v. 285; p. 95.

Christopherson, Leo S., Spokane, Wash. Roller-bearing. No. 1,374,987; Apr. 19; v. 285; p. 414.

Chrysander, John A., New York, N. Y. Calendar. No. 1,375,567; Apr. 19; v. 285; p. 525.

Chmurski, Anton J., assignor of one-half to Frank Regis, Milwaukee, Wis. Fare-box. No. 1,373,798; Apr. 5; v. 285; p. 81.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,374,058; Apr. 5; v. 285; p. 132.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,374,059; Apr. 5; v. 285; p. 132.

Churley, John C., Rankin, Pa. Skid. No. 1,374,550; Apr. 12; v. 285; p. 268.

Chute, Rainsford K., Everett, Mass. Ladder-clamp. No. 1,374,060; Apr. 5; v. 285; p. 132.

Cigila, Ernest F., and L. F. Pelletier, New York, N. Y., assignors, by mesne assignments, to E. & E. Carburetor Company, Inc. Carbureter. No. 1,375,898; Apr. 26; v. 285; p. 620.

Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)

Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)

City Machine & Tool Works. (See Nockol, Frederick C., assignor.)

Clapier, Albert G., Chambon-Fengerolles, France. Automatically-operating mechanical handling apparatus. No. 1,376,317; Apr. 26; v. 285; p. 701.

Clapp, Albert L., Marblehead, assignor to R. W. Bird, Framingham, Mass. Roofing-felt. No. 1,374,187; Apr. 12; v. 285; p. 197.

Clapp, Herbert L., deceased, Checotah, Okla., M. A. Clapp, administrator. Auxiliary car-step. No. 1,373,995; Apr. 5; v. 285; p. 121.

Clapp, Myrtle A., administrator. (See Clapp, Herbert L.)

Clark, Alfred C., assignor of one-half to J. Scott, Philadelphia, Pa. Elevator. No. 1,376,253; Apr. 26; v. 285; p. 688.

Clark, Bertha, Brooklyn, N. Y. Figure toy. No. 1,374,821; Apr. 12; v. 285; p. 320.

Clark, Charles H., Dormont, Pa. Controlling-valve. No. 1,373,599; Apr. 5; v. 285; p. 43.

Clarke, Charles W. E., Brookline, Mass. Soot-cleaning apparatus. No. 1,374,551; Apr. 12; v. 285; p. 268.

Clark, Charlie N., assignor to A. V. Olson, Minneapolis, Minn. Spark-plug. No. 1,374,431; Apr. 12; v. 285; p. 245.

Clark, Robert G., assignor to A. Johnson, Brooklyn, N. Y. Receptacle cap or closure applying apparatus. No. 1,375,564; Apr. 19; v. 285; p. 486.

Clark, Warren F., assignor to The Steam Electric Products Company, Cleveland, Ohio. Controlling device. No. 1,373,411; Apr. 5; v. 285; p. 6.

Clark, Walter L., Boone, Iowa. Straight-edge. No. 1,375,649; Apr. 19; v. 285; p. 541.

Clark, Warren F., assignor to The Steam-Electric Products Company, Cleveland, Ohio. Generator unit. No. 1,375,305; Apr. 19; v. 285; p. 487.

Clarke, Harry D. (See Zuhars, B. C., and Clarke.)

Clausen, H. P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,374,188; Apr. 12; v. 285; p. 198.

Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,375,276; Apr. 19; v. 285; p. 470.

Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,375,277; Apr. 19; v. 285; p. 470.

Clay, Wellington S., Hutchinson, Minn. Fire-alarm-bell actuator. No. 1,374,432; Apr. 12; v. 285; p. 245.

Clayton, George I. (See Blasses, Ernest, assignor.)

Clayton & Lambert Manufacturing Company. (See Lambert, Charles R., assignor.)

Clayton, William, Liverpool, and G. Nodder, Wallasey, England. Cooler. No. 1,375,210; Apr. 19; v. 285; p. 457.

Clayton, William S., Vancouver, British Columbia, Canada. Incline-indicator. No. 1,375,278; Apr. 19; v. 285; p. 470.

Clearwater, Earl C., Los Angeles, Calif. Sanitary ice-cream-cone protector. No. 1,375,778; Apr. 26; v. 285; p. 597.

Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting alloy. No. 1,375,081; Apr. 19; v. 285; p. 433.

Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,375,082; Apr. 19; v. 285; p. 433.

Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,375,083; Apr. 19; v. 285; p. 433.

Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting alloy. No. 1,375,672; Apr. 26; v. 285; p. 578.

Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting article and making same. No. 1,375,673; Apr. 26; v. 285; p. 578.

Cleveland, Arthur J. and C. L., Salina, Kans. Automatic cut-off for gasolene-engines. No. 1,374,635; Apr. 12; v. 285; p. 284.

Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)

Cleveland, Cecil L. (See Cleveland, Arthur J. and C. L.)

Clews, Charles E., Paeroa, assignor of three-sixths to P. N. Kingswell, Auckland, New Zealand. Lifting-jack and hauler. No. 1,376,136; Apr. 26; v. 285; p. 666.

C. L. I. Manufacturing Company, Limited, The. (See Watson, Ernest A., assignor.)

Climax Cabinet Company. (See Miller, Fred W., assignor.)

Clore, Franklin H., Livingston, Tex. Well-drilling tool. No. 1,373,996; Apr. 5; v. 285; p. 121.

Clough, Ora R., Ladysmith, Wis. Pencil-pointer. No. 1,376,254; Apr. 26; v. 285; p. 688.

Clouser, Harry E., and E. R. Thornton, assignors of one-fifth to N. Harrison, Stockton, Calif. Reinforced concrete construction. No. 1,374,356; Apr. 12; v. 285; p. 230.

Clover, Alphonso M., assignor to Parke Davis & Company, Detroit, Mich. Manufacturing glandular extractive product. No. 1,373,551; Apr. 5; v. 285; p. 34.

Clow, Robert, Kansas City, Kans. Plumber's clean-out. No. 1,374,189; Apr. 12; v. 285; p. 198.

Clugg, Florence T., Spencer, Wis. Washing-machine. No. 1,376,255; Apr. 26; v. 285; p. 689.

Clum, Ira E., Lima, Ohio. Tamping-tool. No. 1,376,137; Apr. 26; v. 285; p. 667.

Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for treating hydrocarbons. No. 1,374,357; Apr. 12; v. 285; p. 230.

Coates, John E. (See Williams, Harry M., assignor.)

Cobb, Lawrence, Richmond, Va. Filling-machine. No. 1,375,674; Apr. 26; v. 285; p. 579.

Cocheu, Henry G., New York, N. Y. Holder for hacksaw-blades. No. 1,374,822; Apr. 12; v. 285; p. 320.

Cochran, Charles R., Vale, Oreg. Nut-lock. No. 1,373,489; Apr. 5; v. 285; p. 22.

Codd, Ambrose W., Spokane, Wash. Reserve supply-tank. No. 1,374,433; Apr. 12; v. 285; p. 245.

Cofrode, Parker, Johnstown, Pa. Automobile-driver's armrest. No. 1,374,907; Apr. 19; v. 285; p. 399.

Cohane, Sylvester T., Hartford, Conn. Forceps. No. 1,376,005; Apr. 26; v. 285; p. 641.

Cohen, Antoinette A., Birmingham, Mich. Trolley-retriever. No. 1,375,034; Apr. 19; v. 285; p. 424.

Coia, James, Ravenna, Ohio. Time-controlled mechanism for graphophones. No. 1,375,279; Apr. 19; v. 285; p. 471.

Colburn, Jay C., Webster City, Iowa. Direction indicator or signal for motor-vehicles and the like. No. 1,375,628; Apr. 19; v. 285; p. 537.

Colby, Clarence L., Omaha, Nebr. Hatchway-door-operating mechanism. No. 1,375,827; Apr. 26; v. 285; p. 606.

Colby, Ernest L., Pueblo, Colo. Spark-plug. No. 1,374,281; Apr. 12; v. 285; p. 215.

Cole, Charles A. (See Kepley, E. K., and Cole.)

Cole, David, Morenci, Ariz., assignor to Minerals Separation North American Corporation, New York, N. Y. Apparatus for separating or concentrating ores. No. 1,375,211; Apr. 19; v. 285; p. 458.

Coleburn, William J., Beaufort, N. C. Valve for irrigation projects. No. 1,374,358; Apr. 12; v. 285; p. 230.

Coleman, Arthur B., Gosnells, near Perth, Western Australia, Australia. Shovel, spade, and the like. No. 1,374,061; Apr. 5; v. 285; p. 132.

Coleman, Edward J., Scranton, Pa. Safety device for screens. No. 1,375,828; Apr. 26; v. 285; p. 607.

Cogin, Augustus R., New York, N. Y. Inking-roller. No. 1,375,629; Apr. 19; v. 285; p. 537.

Colley, Thomas R., Blasdell, N. Y. Rolls for hot-rolling sheet metal. No. 1,373,950; Apr. 5; v. 285; p. 112.

Collins, Arthur L., Santa Cruz, Calif. Flow-indicating device. No. 1,374,359; Apr. 12; v. 285; p. 230.

Collins, Caleb G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Treating ore. No. 1,374,434; Apr. 12; v. 285; p. 245.

Collins, James F., Swissvale borough, Pa. Protective mechanism. No. 1,374,636; Apr. 12; v. 285; p. 285.

Collins, William T., deceased; J. W. De Milly, administrator, Tallahassee, Fla. Perforating and cutting device for multigraphs. No. 1,374,062; Apr. 5; v. 285; p. 132.

Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling method and system. No. 1,375,675; Apr. 26; v. 285; p. 579.

Columbia Carburetor Company. (See Murphy, Clifford T., assignor.)

Columbia Fastener Company. (See Neukirchen, Peter, assignor.)

Columbus Climax Rubber Company, The. (See Card, George G., assignor.)

Combustion Engineering Corporation. (See Wagoner, Judson E., assignor.)

Comment, Paul, Mulhouse, France. Manufacture of zinc sulfid. No. 1,374,435; Apr. 12; v. 285; p. 246.

Commonwealth Brass Corporation. (See Kellum, Charles S., assignor.)

Compagnie Generale de Travaux d'Eclairage et de Force (Anciens Etablissements Clemaçon.) (See Vernet, François E. B., assignor.)

Computing Cheese Cutter Company. (See Glassco, Robert C., assignor.)

Comstock, Francis M., assignor to W. S. Howell and C. D. Bradham, Newbern, N. C. Tobacco-looper. No. 1,376,318; Apr. 26; v. 285; p. 701.

Conder, Charles M., and G. T. Vivian, Camborne, England. Crushing-mill of the roller and ring type. No. 1,374,823; Apr. 12; v. 285; p. 320.

Conley, John M., Stockton, Calif. Revolving self-dumping leveler. No. 1,373,799; Apr. 5; v. 285; p. 81.

Conlon, Walter J., Chicago, Ill. Clothes-wringer. No. 1,375,130; Apr. 19; v. 285; p. 442.

Connecticut Aircraft Company. (See Smith, Charles F., assignor.)

Connecticut Telephone & Electric Co., The. (See Donle, Harold P., assignor.)

Conner, Albert W., Falls City, Nebr. Key-ring. No. 1,373,867; Apr. 5; v. 285; p. 95.

Conte, Atilio, Buenos Aires, Argentina. Lock. No. 1,376,256; Apr. 26; v. 285; p. 689.

Conti, James T. F., *et al.* (See Cambay, Charles A., assignor.)

Continental Machinery Co. (See Howell, Claude F., assignor.)

Conway, Frank, Schenectady, N. Y. Combined primer and humidifier for automobile-engines. No. 1,374,436; Apr. 12; v. 285; p. 246.

Cook, Adelbert F., and Lloyd R. Reed, assignors to The W. B. Marvin Manufacturing Company, Urbana, Ohio. Button-setting machine. No. 1,374,360; Apr. 12; v. 285; p. 230.

Cook, George R., assignor of one-half to A. O. Turner and one-half to J. B. F. Dial, Carrollton, Ga. Road scraping, grading, and ditching machine. No. 1,374,824; Apr. 12; v. 285; p. 320.

Cook, James A., East Bridgewater, Mass. Street-traffic-signal. No. 1,375,280; Apr. 19; v. 285; p. 471.

Cook, Stanley S. (See Parsons, C. A., Stanley, and Douglass.)

Cook, Thomas R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,376,257; Apr. 26; v. 285; p. 689.

Cooke, Maurice B., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blow-case. No. 1,376,188; Apr. 26; v. 285; p. 676.

Cookson, William S., Taiping, Perak, Straits Settlements, assignor to L. M. Smith, Maunawai, Honolulu, Hawaii. Concentrated cocoanut-milk and making same. No. 1,374,879; Apr. 12; v. 285; p. 331.

Cookson, William S., Taiping, Perak, Straits Settlements, assignor to L. M. Smith, Maunawai, Honolulu, Hawaii. Cocoanut food product. No. 1,374,880; Apr. 12; v. 285; p. 332.

Coombs, James W., assignor of one-half to T. H. Major, Seattle, Wash. Gate-hinge. No. 1,374,437; Apr. 12; v. 285; p. 246.

Cooper, Elisha H., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,374,988; Apr. 19; v. 285; p. 414.

Cooper, Frank. (See Hill, G. C., and Cooper.)

Cooper, Howard. (See Van Vleck, P., and Cooper.)

Cooper, Lemuel T., Philadelphia, Pa. Piston-ring. No. 1,376,079; Apr. 26; v. 285; p. 656.

Cope, Charles G., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Auxiliary gripper. No. 1,373,868; Apr. 5; v. 285; p. 95.

Cope, Frank T. (See Baily, T. F., and Cope.)

Copeland, James P., Vinemont, assignor of one-half to W. L. Guthrie, Cullman, Ala. Fertilizer-depositor. No. 1,374,881; Apr. 12; v. 285; p. 332.

Corbett, George W., assignor to N. A. Nelson and C. O. Wastun, Sioux Falls, S. D. Concrete-column form. No. 1,374,063; Apr. 5; v. 285; p. 133.

Corfield, Herbert, Duncan, British Columbia, Canada. Accelerator connection. No. 1,373,600; Apr. 5; v. 285; p. 43.

Corlis, Wilson S., Mount Vernon, N. Y. Sanitary milk-drip catch-basin. No. 1,374,825; Apr. 12; v. 285; p. 321.

Cornish, Sidney E., Berkeley, assignor of one-half to H. H. Plummer, San Francisco, Calif. Drying-kiln. No. 1,376,319; Apr. 26; v. 285; p. 701.

Corona Typewriter Company. (See Armstrong, Frank H., assignor.)

Corona Typewriter Company. (See Bridges, L. B., assignor.)

Corporation said: Etablissements Jacob Holtzer. (See Vergniaud, Louis, assignor.)

Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,375,676; Apr. 26; v. 285; p. 579.

Costmeter Company. (See Quigley, John T., assignor.)

Cotton, Lee J., De Quincy, La. Safety switch lever and lock. No. 1,375,035; Apr. 19; v. 285; p. 424.

Coughlin, Francis R. (See Davis, Frank H., assignor.)

Coulombe, Joseph C., Dracut, Mass. Suction-augmenting device for vacuum feeding systems. No. 1,374,491; Apr. 12; v. 285; p. 256.

Coulson, Arthur R., San Quentin, Calif. Composition of dried modified cultured milk powder to be used in cooking and baking human foods. No. 1,374,138; Apr. 5; v. 285; p. 147.

Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pickling process. No. 1,374,552; Apr. 12; v. 285; p. 268.

Cox, Clare C., and G. W. Lentz, Indianapolis, Ind.; said Cox assignor of one-tenth to said Lentz. Storage-battery indicating device. No. 1,373,951; Apr. 5; v. 285; p. 112.

Cox, Claude E., Detroit, Mich. Liquid-level gage. No. 1,375,131; Apr. 19; v. 285; p. 442.

Cox, Claude E., Detroit, Mich. Liquid-level gage. No. 1,375,132; Apr. 19; v. 285; p. 442.

Cox, Dillard H., Seaside, Oreg. Logging-hook. No. 1,376,258; Apr. 26; v. 285; p. 689.

Cox, John L., San Diego, Calif. Towel-table. No. 1,374,361; Apr. 12; v. 285; p. 231.

Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Electric heating element and making the same. No. 1,375,084; Apr. 19; v. 285; p. 433.

Craig, James, and C. C. Thomson, Butler, Pa. Nut and bolt assembling machine. No. 1,375,829; Apr. 26; v. 285; p. 607.

Craig, Richard M., San Antonio, Tex. Advertising-sign. No. 1,374,282; Apr. 12; v. 285; p. 216.

Crane, Adam L., Fort Mill, S. C. Cement tie and rail-fastener. No. 1,373,601; Apr. 5; v. 285; p. 43.

Cranston, Albert E., Spokane, Wash. Knotter. No. 1,374,283; Apr. 12; v. 285; p. 216.

Cranston, Albert E., Spokane, Wash. Binding-machine. No. 1,376,006; Apr. 26; v. 285; p. 641.

Crass, George H., assignor of one-half to J. Sabin, Ithaca, N. Y. Auto-wheel. No. 1,375,830; Apr. 26; v. 285; p. 607.

Craver, Augustus E., Cliffside, N. J. Adhesive waterproofing and sizing composition. No. 1,373,412; Apr. 5; v. 285; p. 6.

Crawford, A. O., Co. (See Scotcher, Charles A., assignor.)

Crawford, William E., Devils Lake, N. D. Wheel. No. 1,376,259; Apr. 26; v. 285; p. 689.

Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,374,826; Apr. 12; v. 285; p. 321.

Crippen, Arthur J., Rochester, N. Y., assignor to Crippen Record File Corporation. Disk-record cabinet. No. 1,375,085; Apr. 19; v. 285; p. 433.

Crippen Record File Corporation. (See Crippen, Arthur J., assignor.)

Crist, John F., Cleveland, Ohio. Toy. No. 1,375,677; Apr. 26; v. 285; p. 579.

Criswell, Walter H., Merlin, Oreg. Combined bumper and locking device. No. 1,376,189; Apr. 26; v. 285; p. 676.

Crocker, Ernest B., Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Stop-pin for gage-dials. No. 1,374,438; Apr. 12; v. 285; p. 246.

Crocker, Ernest B., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Pressure-gage. No. 1,375,366; Apr. 19; v. 285; p. 487.

Crogan, Charles W., Bangor, Me. Drum-handle for tape-line reels. No. 1,375,630; Apr. 19; v. 285; p. 537.

Crompton & Knowles Loom Works. (See Regan, John, assignor.)

Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)

Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)

Crone, Leonard S., New York, N. Y. Hinge. No. 1,375,212; Apr. 19; v. 285; p. 458.

Cronin, John J., Dallas, Tex. Ice-carrier. No. 1,375,213; Apr. 19; v. 285; p. 458.

Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Rope-clamp. No. 1,373,800; Apr. 5; v. 285; p. 81.

Crosby, Phillip A., Alton, R. R. Matthews, Wood River, Ill., and R. B. High, Oakland, Calif., assignors to Roxana Petroleum Company of Oklahoma, St. Louis, Mo. Fire-extinguishing composition. No. 1,375,779; Apr. 26; v. 285; p. 597.

Crossley, Elijah R., Chicago, Ill. Apparatus for use in surgical operations on the eye. No. 1,375,445; Apr. 19; v. 285; p. 502.

Crowe, Joseph N., Washington, D. C., assignor to C. C. Williams, trustee, acting chief of ordnance, U. S. Army. Rifle-grenade. No. 1,376,320; Apr. 26; v. 285; p. 702.

Crozet, François, Condrieu, France. Embroidery. No. 1,375,951; Apr. 26; v. 285; p. 631.

Crozier, Alfred O., New York, N. Y. Making faced cementitious products. No. 1,376,321; Apr. 26; v. 285; p. 702.

Cru Patents Corporation. (See Wenderhold, William, assignor.)

Cruise, James P., Carpenter, Miss. Cotton-picker. No. 1,374,827; Apr. 12; v. 285; p. 321.

Crum, Hollis B., assignor to Bucyrus Machine and Tool Co., Bucyrus, Ohio. Hydraulic steering-gear. No. 1,375,678; Apr. 26; v. 285; p. 579.

Cullen, Harry S., assignor of one-half to G. L. Fulton, Wellington, New Zealand. Food preparation and making same. No. 1,373,651; Apr. 5; v. 285; p. 52.

Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Armature insulation. No. 1,375,133; Apr. 19; v. 285; p. 442.

Culp, Jay S., Cleveland, assignor to The Reliance Wheel Co., Youngstown, Ohio. Pressed-steel wheel. No. 1,375,899; Apr. 26; v. 285; p. 621.

Culp, Jay S., Cleveland, assignor to The Reliance Wheel Co., Youngstown, Ohio. Pressed-steel vehicle-wheel. No. 1,375,900; Apr. 26; v. 285; p. 621.

Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,375,281; Apr. 19; v. 285; p. 471.

Cunniff, Edward A., New Bedford, and J. V. Cunniff, Fall River, assignors to J. K. Lanning, Boston, Mass. Replenishing-loom. No. 1,375,036; Apr. 19; v. 285; p. 424.

Cunniff, John V. (See Cunniff, Edward A. and J. V.)

Cunniff, John V., assignor of one-half to Patten Bros., Inc., Fall River, Mass. Winding-machine. No. 1,375,568; Apr. 19; v. 285; p. 525.

Cunningham, James, St. Louis, Mo., assignor to Demountable Spring Tire Company, New York, N. Y. Resilient wheel. No. 1,373,652; Apr. 5; v. 285; p. 52.

Cuomo, Angelo, Astoria, N. Y. Milk-bottle top. No. 1,374,719; Apr. 12; v. 285; p. 300.

Curran, Edward T., Detroit, Mich. Airplane-radiator. No. 1,374,190; Apr. 12; v. 285; p. 198.

Curran, Louis J., and G. F. Donnelly, South Meriden, Conn. Electrically-controlled weighing-scale. No. 1,376,138; Apr. 26; v. 285; p. 667.

Currie, Otis C., Detroit, assignor to W. O. Albig, Adrian, Mich. Feeding device for sheets, envelops, and the like. No. 1,373,869; Apr. 5; v. 285; p. 95.

Curtis, George V., West Springfield, Mass. Clip. No. 1,374,882; Apr. 12; v. 285; p. 332.

Curtiss Aeroplane and Motor Corporation. (See Burgess, William S., assignor.)

Curtiss Aeroplane and Motor Corporation. (See Kirkman, Charles B., assignor.)

Cushman, Everett B., assignor to The Piersen Manufacturing Company, Topeka, Kans. Automatic oil-feed. No. 1,375,748; Apr. 26; v. 285; p. 592.

Cusick, Hyland L., Pittsburgh, Pa. Combination-holder. No. 1,375,569; Apr. 19; v. 285; p. 526.

Cutler-Hammer Mfg. Co., The. (See Dicks, Henry, assignor.)

Cutler-Hammer Mfg. Co., The. (See Hadaway, William S., Jr., assignor.)

Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)

Cutshaw, Howard M., Greeneville, Tenn. Typewriter-eraser. No. 1,376,322; Apr. 26; v. 285; p. 702.

Cyclemotor Corporation. (See Evans, Leigh R., assignor.)

Dahlke, Rudolph. (See Pfahl, Robert, assignor.)

Dale, Charles O., assignor of one-half to A. Peterson, Seattle, Wash. Log-bunk. No. 1,374,284; Apr. 12; v. 285; p. 216.

Dalton, Charles. (See Dalton, John T. and C.)

Dalton, John T. and C., Berry Brow, near Huddersfield, England. Clutch for the engagement and disengagement of shafts. No. 1,376,007; Apr. 26; v. 285; p. 641.

Danciewicz, Antoni, and W. R. Whitaker, Ludington, Mich. Combination furniture. No. 1,375,570; Apr. 19; v. 285; p. 526.

Danckwardt, Paul, Denver, Colo. Production of gasolene from crude oil. No. 1,373,653; Apr. 5; v. 285; p. 52.

Danckwardt, Paul, Denver, Colo. The production of hydrocarbons of low boiling-points from hydrocarbons of high boiling-points. No. 1,373,654; Apr. 5; v. 285; p. 53.

Daniel, C., Huntington Park, and Edward A. Juhnke, Los Angeles, Calif. Safety device for preventing motor-cars from overturning. No. 1,373,655; Apr. 5; v. 285; p. 53.

Danielson, Gottfried, Weehawken, N. J. Musical instrument. No. 1,375,952; Apr. 26; v. 285; p. 631.

Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer-tank. No. 1,374,553; Apr. 12; v. 285; p. 268.

Danner, Emil C., Westmont borough, Pa. Heating-furnace. No. 1,375,679; Apr. 26; v. 285; p. 580.

Darby, William F., Jacksonville, Mo. Locking device. No. 1,374,554; Apr. 12; v. 285; p. 268.

Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Expansible core and mold therefor. No. 1,375,214; Apr. 19; v. 285; p. 458.

Dasenbrock, Ferdinand F., Teutopolis, Ill. Draft mechanism. No. 1,376,008; Apr. 26; v. 285; p. 641.

Dautrey, Andrew L., Chicago, Ill. Perforating-machine. No. 1,375,680; Apr. 26; v. 285; p. 380.

Davenport, Alpha L., and A. J. James, Vancouver, British Columbia, Canada. Door-locking device. No. 1,374,908; Apr. 19; v. 285; p. 399.

Davenport, Isaac L., assignor of one-half to W. W. Armstrong, Camden, N. J. Talking-machine stop. No. 1,376,261; Apr. 26; v. 285; p. 690.

Davey, John. (See Hansen, Thomas H., assignor.)

Davey, John F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fasteners. No. 1,373,490; Apr. 5; v. 285; p. 22.

Davidson, Lester, Fisher, Ill. Railway-crossing gate. No. 1,374,828; Apr. 12; v. 285; p. 321.

Davidson, Sydney J. W., Auckland, New Zealand. Gas ring or burner. No. 1,375,572; Apr. 19; v. 285; p. 526.

Davies, Rhys, Fort Wayne, Ind. Electric regulator. No. 1,374,285; Apr. 12; v. 285; p. 216.

Davis, Albert L., Norwalk, Ohio. Vault-lock. No. 1,375,134; Apr. 19; v. 285; p. 443.

Davis, Alva G., Center, Ky. Radius-rod brace. No. 1,374,829; Apr. 12; v. 285; p. 321.

Davis, Arthur, Livingston, Ill. Tractor. No. 1,375,571; Apr. 19; v. 285; p. 526.

Davis Automatic Equipment Corporation. (See Buzzaird, Raleigh B., assignor.)

Davis, Charles W., Edgeworth, and W. S. Brown, assignors to Standard Underground Cable Company, Pittsburgh, Pa. Filling porous material with liquid. No. 1,374,362; Apr. 12; v. 285; p. 231.

Davis, David J., Seymour, Conn. Line-casting device. No. 1,376,260; Apr. 26; v. 285; p. 690.

Davis, De Leon, Richmond, Va., assignor to Unity Tire & Mfg. Co. Tire. No. 1,374,637; Apr. 12; v. 285; p. 285.

Davis, Ernest F., Elmira, N. Y., assignor to F. J. Lesh and C. G. Wood, Muncie, Ind. Steering-wheel mounting. No. 1,374,830; Apr. 12; v. 285; p. 321.

Davis, Frank H., assignor of one-half to F. R. Coughlin, New York, N. Y. Fusible adherent and making the same. No. 1,374,492; Apr. 12; v. 285; p. 257.

Davis, George H., and C. H. Mitchell, West Orange, N. J.; said Mitchell assignor to said Davis. Press for moldable compounds. No. 1,375,831; Apr. 26; v. 285; p. 607.

Davis, George H. E., Lynn, Mass. Drawing apparatus. No. 1,374,363; Apr. 12; v. 285; p. 231.

Davis, Harold S. (See Bacon, R. F., and Davis.)

Davis, John N., Three Rivers, Mich., assignor to O. B. Andrews Company, Chattanooga, Tenn. Folding box. No. 1,375,489; Apr. 19; v. 285; p. 510.

Davis, Patrick H., New York, N. Y., assignor to The Hamilton-Low Company, Jersey City, N. J. Valve. No. 1,375,215; Apr. 19; v. 285; p. 458.

Davis, Robert A. (See Dunston, J. H., and Davis.)

Davis, Thomas A., Grandview, Wash. Tail-holder. No. 1,374,364; Apr. 12; v. 285; p. 231.

Davis-Watkins Dairymen's Manufacturing Company. (See Peacock, Edward M., assignor.)

Davison, Hugh, New York, N. Y. Car-fender. No. 1,375,446; Apr. 19; v. 285; p. 503.

Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)

Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Detector-signal. No. 1,375,367; Apr. 19; v. 285; p. 487.

Day, Joseph P., Milburn, N. J. Advertising-chart. No. 1,374,365; Apr. 12; v. 285; p. 231.

Day, William L., Williamsport, Pa. Lifting-jack. No. 1,374,831; Apr. 12; v. 285; p. 322.

Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)

Dayton Engineering Laboratories Company, The. (See Schwarz, Elmer H., assignor.)

Deam, Henry D., Benton Harbor, Mich. Tongs. No. 1,376,323; Apr. 26; v. 285; p. 702.

Dean, Merrell A., assignor to Williams Patent Crusher & Pulveriser Co., St. Louis, Mo. Material-separator. No. 1,376,190; Apr. 26; v. 285; p. 676.

Dean, Robert A., Tyler, Tex. Pump-actuating mechanism. No. 1,375,135; Apr. 19; v. 285; p. 443.

Debaecker, Georges H. L., Sasde-Gand, Netherlands, assignor to Société Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Circy, Paris, France. Apparatus for lifting and transporting glass and other plane-surface articles. No. 1,373,997; Apr. 5; v. 285; p. 121.

De Bats, Jean H. L., Zellenople, assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Making graphite crucible. No. 1,374,909; Apr. 19; v. 285; p. 399.

De Bats, Jean H. L., Zellenople, assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Making clay and graphite crucibles. No. 1,374,910; Apr. 19; v. 285; p. 399.

De Baun, Earl A., Minneapolis, Minn. Vehicle wheel and tire. No. 1,375,832; Apr. 26; v. 285; p. 607.

De Bergue & Company, Limited. (See Shaw, Richard, assignor.)

De Cew, Charles A., and W. F. Hirst, Cedar Rapids Iowa. Hand-power-driven band-saw. No. 1,374,638; Apr. 12; v. 285; p. 285.

De Cicilani, Antony, Los Angeles, Calif. Concrete-block-making machine. No. 1,375,953; Apr. 26; v. 285; p. 631.

Deckebach, Henry E., Cincinnati, Ohio. Mashing process. No. 1,374,191; Apr. 12; v. 285; p. 198.

Decker, Lemuel B., Kenogami, Quebec, Canada. Stuff-regulator. No. 1,374,286; Apr. 12; v. 285; p. 216.

De Clerque, Alvin W. (See Payne, H. D., De Clerque, and Sjoberg.)

Deems Edward M., Forest Hills, N. Y., and L. W. Willis, Hoboken, N. J., assignors to Eastern Signal & Supply Company, Inc., New York, N. Y. Battery. No. 1,373,801; Apr. 5; v. 285; p. 82.

Deems, Edward M., Forest Hills, N. Y., and L. W. Willis, Montville, N. J., assignors to Eastern Signal & Supply Company, Inc., New York, N. Y. Battery. No. 1,373,802; Apr. 5; v. 285; p. 82.

De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone and Telegraph Company. Means for amplifying currents. No. 1,375,447; Apr. 19; v. 285; p. 503.

De Forest Radio Telephone and Telegraph Company. (See de Forest, Lee, assignor.)

De Guardia-Calmètes, Paul, Cayeux-sur-Mer, France. Apparatus for the transformation of reeds into woven fabrics suitable for the manufacture of ceiling lath-work, baskets, receptacles, and the like. No. 1,373,721; Apr. 5; v. 285; p. 66.

De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Thermosensitive circuit-controller. No. 1,375,780; Apr. 26; v. 285; p. 597.

De La Barre, Alfred J., Minneapolis, Minn. Device for securing demountable wheels. No. 1,375,037; Apr. 19; v. 285; p. 424.

De La Monte, Cascious H., assignor to International Motor Company, New York, N. Y. Drag-link. No. 1,376,383; Apr. 26; v. 285; p. 713.

Delas, Albert, Paris, France, assignor to Delas Condenser Corporation, New York, N. Y. Steam-ejector. No. 1,374,990; Apr. 19; v. 285; p. 414.

Delas Condenser Corporation. (See Delas, Albert, assignor.)

Delaunay, Jules E. (See Dimitri, G. L., and Delaunay.)

De Laval Separator Company, The. (See Hall, Selden H., assignor.)

Delcourt, Charles. (See Cartier, J., and Delcourt.) (Reissue.)

De Long, George R., Harriman, Pa. Nut. No. 1,375,781; Apr. 26; v. 285; p. 597.

De Long, George R., Harriman, Pa. Nut. No. 1,375,782; Apr. 26; v. 285; p. 597.

Del Porto, Rinaldo, Vallejo, Calif. Drill extension. No. 1,376,139; Apr. 26; v. 285; p. 667.

De Martin, Charles L., W. M. Matteoli, Connersville, and S. F. Arbuckle, Indianapolis, assignors, by mesne assignments, to United States Automotive Corporation, Connersville, Ind. Lamp construction. No. 1,376,191; Apr. 26; v. 285; p. 676.

De Milly, John W., administrator. (See Collins, William T.)

Deming, William L., Salem, Ohio. Cash-recording device. No. 1,375,490; Apr. 19; v. 285; p. 511.

De Mooy Electric Co., The. (See De Mooy, Charles W., assignor.)

De Mooy, Charles W., assignor to The De Mooy Electric Co., Cleveland, Ohio. High-frequency machine. No. 1,376,080; Apr. 26; v. 285; p. 656.

De Mooy, Charles W., assignor to The De Mooy Electric Co., Cleveland, Ohio. High-frequency generator of the transformer type. No. 1,376,081; Apr. 26; v. 285; p. 656.

Demountable Spring Tire Company. (See Cunningham, James, assignor.)

Demuth, Alfred M., assignor to J. A. Kelly, Chicago, Ill. Individual work-holder attachment for slicing-machines. No. 1,373,952; Apr. 5; v. 285; p. 112.

Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Pipe or hose coupling. No. 1,375,136; Apr. 19; v. 285; p. 443.

Dennin, Edward A., Troy, N. Y. Brush. No. 1,375,681; Apr. 26; v. 285; p. 580.

Dennis, Little D., Philadelphia, Pa. Chair attachment. No. 1,375,573; Apr. 19; v. 285; p. 526.

Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Lister-plow. No. 1,373,413; Apr. 5; v. 285; p. 6.

Dennis, William J., Chicago, Ill. Squeegee. No. 1,375,682; Apr. 26; v. 285; p. 580.

Dennisa, George L. T., London, England. Revolving chess-board and the like. No. 1,374,139; Apr. 5; v. 285; p. 147.

Denny, Columbus F., Wilson, N. C. Reel for eyeglass-chains. No. 1,376,262; Apr. 26; v. 285; p. 690.

De Procoudine-Gorsky, Serge, Grandstad, Konnerud, near Drammen, Norway. Photographic camera for taking up part-negatives for naturally-colored pictures. No. 1,375,175; Apr. 19; v. 285; p. 451.

Derr, Charles E., assignor to Packard Motor Car Company, Detroit, Mich. Machine for cutting teeth. No. 1,374,064; Apr. 5; v. 285; p. 133.

Des Moineaux, Alfred V., Denver, Colo. Milk-bottle carrier. No. 1,375,783; Apr. 26; v. 285; p. 598.

Desobry, Charles W., Indianapolis, Ind. Apparatus for heating and cooling liquids. No. 1,373,953; Apr. 5; v. 285; p. 112.

Detachable Plow Share Edge Manufacturing Company. (See Nordquist, Peter A., assignor.)

Detwiler, Frank J., and M. H. Burkholder, Parkersburg, W. Va. Picture-projector. No. 1,373,491; Apr. 5; v. 285; p. 22.

Dial, James B. F., *et al.* (See Cook, George R., assignor.)

Diana, Alexander, San Francisco, Calif. Wheel-protector. No. 1,374,065; Apr. 5; v. 285; p. 133.

Dick, Samuel M., assignor to International Dry Milk Company, Minneapolis, Minn. Dehydrated milk and producing the same. No. 1,374,555; Apr. 12; v. 285; p. 269.

Dickerson, George W., assignor to The North Electric Manufacturing Company, Galion, Ohio. Telephone-switch. No. 1,374,366; Apr. 12; v. 285; p. 232.

Dicks, Henry, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,374,639; Apr. 12; v. 285; p. 285.

Diehl, Otto J., *et al.* (See Wrozina, Ignatius, assignor.)

Diener, Frank A. (See Schylander, John F., assignor.)

Dillon, Charles. (See Peets, Clifford S., assignor.)

Dillon, Nelson D., Seattle, Wash. Game. No. 1,373,998; Apr. 5; v. 285; p. 121.

Dimitri, Georges L., and Jules E. Delaunay, Paris, France. Manufacture of refractory and insulating products. No. 1,374,493; Apr. 12; v. 285; p. 257.

Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective system. No. 1,374,192; Apr. 12; v. 285; p. 198.

Dobrowolski, Alfons, Racine, Wis. Auxiliary seat for tricycles. No. 1,374,911; Apr. 19; v. 285; p. 399.

Dock, Herman, Pleasantville, assignor to L. O. Bucklin, trustee, Little Falls, N. Y. Internal-combustion engine. No. 1,374,140; Apr. 5; v. 285; p. 147.

Dodd, Alvin H., Chicago, Ill. Audible signal. No. 1,374,367; Apr. 12; v. 285; p. 232.

Dodd, Henry S., assignor of one-half to J. O'Neill, Toronto, Ontario, Canada. Heater. No. 1,375,137; Apr. 19; v. 285; p. 443.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Welding. No. 1,374,640; Apr. 12; v. 285; p. 286.

Dodds, Redus D., Houston, Tex. Sample-taking device. No. 1,373,492; Apr. 5; v. 285; p. 22.

Dodds, Rowan T. F., Stratford, Ontario, Canada. Preventing explosions. No. 1,376,082; Apr. 26; v. 285; p. 656.

Dodson, George W., Automobile-fender. No. 1,375,574; Apr. 19; v. 285; p. 527.

Doellinger, Louis F., Waterloo, Iowa. Wringer attachment. No. 1,375,784; Apr. 26; v. 285; p. 598.

Doering, George, St. Louis, Mo. High-arch-repair last. No. 1,375,282; Apr. 19; v. 285; p. 471.

Doherty, John, New York, assignor to M. I. Kopple, Far Rockaway, N. Y. Variable-speed device. No. 1,374,439; Apr. 12; v. 285; p. 246.

Domestic Utility Corporation, The. (See Warren, Frank D., assignor.)

Donaldson, Lillian D., New Washington, Ohio. Stock-feeder. No. 1,373,602; Apr. 5; v. 285; p. 43.

Donle, Harold P., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Vacuum-tube base. No. 1,374,832; Apr. 12; v. 285; p. 322.

Donnelly, George F. (See Curran, L. J., and Donnelly.)

Dooley, William D., assignor, by mesne assignments, to L. D. Bowser, Dallas, Tex. Electrically-controlled puller for oil-well casings. No. 1,374,838; Apr. 12; v. 285; p. 322.

Dooley, William D., assignor, by mesne assignments, to L. D. Bowser, Dallas, Tex. Magnetically-operated oil-well fishing-tool. No. 1,374,834; Apr. 12; v. 285; p. 322.

Dornan, James. (See Portham, R. S., and Dornan.)

Dorsey, Henry A., Enterprise, Ala. Stump-pulling and skidder attachment for tractors. No. 1,374,835; Apr. 12; v. 285; p. 322.

D'Orville, Theodore L. R., Sewickley, assignor to Standard Steel Spring Company, Coraopolis, Pa. Machine for making leaf-springs. No. 1,375,038; Apr. 19; v. 285; p. 425.

Dottl, Joseph, and H. G. Hart, Madison, Wis. Support. No. 1,373,716; Apr. 5; v. 285; p. 65.

Dougan, Kennedy, Minneapolis, Minn. Heavy artillery. No. 1,375,491; Apr. 19; v. 285; p. 511.

Douglas, Beverly, Baltimore, Md. Device for supplying heated vapor to internal-combustion engines. No. 1,373,603; Apr. 5; v. 285; p. 43.

Douglas, Louis M. (See Parsons, C. A., Stanley, and Douglas.)

Dover, Oscar A., Gastonia, N. C. Lubricating means for spinning-rings. No. 1,375,833; Apr. 26; v. 285; p. 608.

Dow Chemical Company, The. (See Veazey, William R., assignor.)

Down, Sidney G., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Liquid-fuel-control system. No. 1,375,492; Apr. 19; v. 285; p. 511.

Downey, Millard J., Chicago, Ill. Attachment for billing-machines. No. 1,373,870; Apr. 5; v. 285; p. 96.

Downie, James H., San Antonio, Tex. Truss. No. 1,375,448; Apr. 19; v. 285; p. 503.

Downing, Ira S., Indianapolis, Ind., assignor to Camel Company. Car-door. No. 1,374,494; Apr. 12; v. 285; p. 257.

Downs, Charles R. (See Weiss, J. M., and Downs.)

Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Producing maleic acid. No. 1,374,720; Apr. 12; v. 285; p. 301.

Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Producing anthraquinone. No. 1,374,721; Apr. 12; v. 285; p. 301.

Downs, Charles R., Cliffside, N. Y., assignor to The Barrett Company. Catalytic oxidation of naphthalene. No. 1,374,722; Apr. 12; v. 285; p. 301.

Doyle, Carrie, *et al.* (See Hale, R. J., and Doyle, assignors.)

Doyle, Charles, San Francisco, Calif. Dentifrice-dispensing device. No. 1,375,954; Apr. 26; v. 285; p. 631.

Doyle, James S. (See Hedley, F., and Doyle, assignor.)

Doyle, William T. (See Hale, R. J., and Doyle.)

Drake, A. W., Manufacturing Co. (See Gomber, George W., assignor.)

Drake, Le Roy, Chicago, Ill. Fuse-wire reel. No. 1,374,368; Apr. 12; v. 285; p. 232.

Drange, Carl E., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors of the estate of Walter Scott, deceased. Means for attaching printing-plates to cylinders. No. 1,373,656; Apr. 5; v. 285; p. 53.

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper, Thomas B., Oakland, Calif. Combination table and bed. No. 1,375,449; Apr. 19; v. 285; p. 503.

Dratschke, Hans, Brooklyn, N. Y. Game apparatus. No. 1,374,091; Apr. 19; v. 285; p. 414.

Drechsel, Emil A., assignor to Firm of Albin Drechsel Sohne, Gornsdorf, Germany. Framework knitted fabric. No. 1,375,575; Apr. 19; v. 285; p. 527.

Drew, Harold L., Trinidad, Colo. Medicine-cabinet. No. 1,375,901; Apr. 26; v. 285; p. 621.

Drew, William F., San Francisco, Calif. Selective roller filing-cabinet. No. 1,375,493; Apr. 19; v. 285; p. 511.

Driggers, Henry A. (See Gilbert, John H., assignor.)

Drill, Charles, St. Louis, Mo. Internal-combustion engine. No. 1,375,902; Apr. 26; v. 285; p. 621.

Drowns, Irvin, assignor to The Timken Roller Bearing Company, Canton, Ohio. Tool-holder. No. 1,375,785; Apr. 26; v. 285; p. 598.

Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,374,066; Apr. 5; v. 285; p. 133.

Drucker, Samuel and W. Sieck, Jr., Chicago, Ill. Making catalytic material. No. 1,375,368; Apr. 19; v. 285; p. 487.

Drummond, Alexander C., Ilion, N. Y. Gun-cleaner. No. 1,373,999; Apr. 5; v. 285; p. 121.

Dubee, Adelard J., Glens Falls, N. Y. Sash-tightener. No. 1,374,067; Apr. 5; v. 285; p. 134.

Duca, Luigi, Turin, assignor to Societa Anonima Manifatturs Luigi Duca, Busta Arsizio, Italy. Automatic clutch. No. 1,375,576; Apr. 19; v. 285; p. 527.

Duckworth, John T., assignor to F. M. Rapp, Philadelphia, Pa. Heater. No. 1,374,836; Apr. 12; v. 285; p. 323.

Dudas, Andrew, Homestead, Pa. Life-buoy. No. 1,375,494; Apr. 19; v. 285; p. 511.

Duerst, William B., Pine Lawn, assignor of one-half to F. Wodicka, St. Louis, Mo. Dirigible headlight. No. 1,375,138; Apr. 19; v. 285; p. 444.

Duff Manufacturing Company, The. (See Kopf, John C., assignor.)

Duffy, Thomas I., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,373,954; Apr. 5; v. 285; p. 112.

Du Lac, B., *et al.* (See Auger, Joseph T., assignor.)

Dunbar, Ernest W., assignor to Apsley Rubber Company, Hudson, Mass. Welt-strip and making same. No. 1,375,283; Apr. 19; v. 285; p. 472.

Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,375,683; Apr. 26; v. 285; p. 580.

Duncanson, George, Jr., Jersey City, N. J. Printer's quoin. No. 1,375,495; Apr. 19; v. 285; p. 512.

Dunkelsberg, Louis, Brooklyn, N. Y. Spectacles. No. 1,374,287; Apr. 12; v. 285; p. 216.

Dunkley Company. (See Dunkley, Samuel J., assignor.)

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Peach-pitting tool. No. 1,374,288; Apr. 12; v. 285; p. 217.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Paring and pitting knife. No. 1,374,289; Apr. 12; v. 285; p. 217.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitter-knife. No. 1,374,290; Apr. 12; v. 285; p. 217.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Mixing-tank. No. 1,374,291; Apr. 12; v. 285; p. 217.

Dunlap, Elon, Diamond Springs, Calif. Mount for plows and other tools. No. 1,375,577; Apr. 19; v. 285; p. 527.

Dunn, Alfred J., Birmingham, England. Concrete and like structure. No. 1,375,903; Apr. 26; v. 285; p. 621.

Dunn, Edmund L., assignor of one-third to J. P. Salmon and one-third to E. D. Fitzpatrick, Philadelphia, Pa. Bolt-reclaiming machine. No. 1,374,723; Apr. 12; v. 285; p. 301.

Dunn, Edward L., Worcester, Mass. Chain-carrying attachment for motor-vehicles. No. 1,374,556; Apr. 12; v. 285; p. 269.

Dunn, Louis, Minneapolis, Minn. Syringe attachment. No. 1,373,803; Apr. 5; v. 285; p. 82.

Dunn Manufacturing Company. (See Dunn, William L., assignor.)

Dunn Manufacturing Company. (See McKissick, William H., assignor.)

Dunn, Noble C., Little Rock, Ark. Sand-unloading device. No. 1,374,068; Apr. 5; v. 285; p. 134.

Dunn, William H., Chicago, Ill. Toy aeroplane. No. 1,374,000; Apr. 5; v. 285; p. 121.

Dunn, William L., assignor to Dunn Manufacturing Company, Oxnard, Calif. Well apparatus. No. 1,376,009; Apr. 26; v. 285; p. 642.

Dunstan, John H., and R. A. Davis, Slidell, La. Condenser and separator for wood-impregnating retorts. No. 1,374,069; Apr. 5; v. 285; p. 134.

Dupaul, Young Optical Co. (See Bellair, Edward, assignor.)

Du Pont, E. I. de Nemours & Company. (See Cooke, Maurice B., assignor.)

Du Pont, E. I. de Nemours & Company. (See Jacobs, Charles R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Schuite, Louis, assignor.)

Du Pont, E. I., de Nemours & Company. (See Swint, Wendell R., assignor.)

Durand Steel Locker Company. (See Vance, Walter N., assignor.)

Durhan, George, New York, N. Y. Apparatus for ornamenting lead. No. 1,376,083; Apr. 26; v. 285; p. 656.

Duryea, Oscar. (See Searle, A. H., and Duryea.)

Dutton, Clarence B., New York, N. Y. Apparatus for cleaning stirring-rods. No. 1,373,871; Apr. 5; v. 285; p. 96.

Dye, Garnett J., Dothan, Ala. Radio aerial torpedo. No. 1,376,192; Apr. 26; v. 285; p. 676.

Dye, Glen M., Minneapolis, Minn. Film-clip. No. 1,373,493; Apr. 5; v. 285; p. 23.

Dyer, Harry W., East Orange, N. J. Automobile-bracket. No. 1,375,834; Apr. 26; v. 285; p. 608.

Dyer, Ralph H., Providence, R. I. Apparatus for inverting bottles. No. 1,373,604; Apr. 5; v. 285; p. 44.

Dyer, Walter C., Chicago, Ill., assignor to Buda Company. Elevating mechanism for shop-trucks. No. 1,373,552; Apr. 5; v. 285; p. 34.

Dyer, Walter C., assignor to The Buda Company, Chicago, Ill. Drilling-machine. No. 1,376,084; Apr. 26; v. 285; p. 656.

Dykes, James. Marinette, Wis. Portable crane. No. 1,374,837; Apr. 12; v. 285; p. 323.

E. & E. Carburetor Company. (See Ciglia, E. F., and Pelletier, assignors.)

Eagan, John J., San Francisco, Calif. Concrete ship construction. No. 1,373,804; Apr. 5; v. 285; p. 82.

Eagles, John E., New Westminster, British Columbia, Canada. Automobile-headlight control. No. 1,374,912; Apr. 19; v. 285; p. 400.

Earl, Luther D., Shelby, Ohio. Tool for piercing billets. No. 1,374,369; Apr. 12; v. 285; p. 232.

Earl, Schuyler H. (See Bullock, E. W., Earl, and Bryan.)

East, James L., Denver, Colo. Beet-topper. No. 1,373,872; Apr. 5; v. 285; p. 96.

Eastern Signal & Supply Company. (See Deems, E. M., and Willis, assignors.)

Eastman Kodak Company. (See Sulzer, Albert F., assignor.)

Eastman Machine Company. (See Williams, James E., assignor.)
Eaton, Albert N., Omaha, Nebr. Stock-watering tank. No. 1,375,089; Apr. 19; v. 285; p. 425.
Ebeling, Charles W., Buffalo, N. Y. Synchronized recording and reproducing apparatus for visual and audible actions. No. 1,374,913; Apr. 19; v. 285; p. 400.
Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Can-handling mechanism. No. 1,373,605; Apr. 5; v. 285; p. 44.
Ebin, David. (See Altwegg, J., and Ebin.)
Eckhardt, Chester C., Rochester, N. Y. Primer and humidifer for internal-combustion engines. No. 1,375,496; Apr. 19; v. 285; p. 512.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Eclipse Machine Company. (See Van Ness, Henry E., assignor.)
Eddy, John S., Los Angeles, Calif. Fountain shaving-brush. No. 1,374,724; Apr. 12; v. 285; p. 301.
Edgar, John R., Ava, Ill. Mower-guard. No. 1,374,001; Apr. 5; v. 285; p. 122.
Edson, John T., New York, N. Y. Whirling toy. No. 1,374,002; Apr. 5; v. 285; p. 122.
Edstrom Machinery Company, *et al.* (See Edstrom, Otto E., assignor.)
Edstrom, Otto E., San Francisco, Calif., assignor of one-third to A. B. Olston, Barrington, and two-thirds to Edstrom Machinery Company, Gary Station, Ill. Wrapping-machine. No. 1,375,869; Apr. 19; v. 285; p. 487.
Edward Valve and Manufacturing Company. (See Spreitzer, Lawrence, assignor.)
Edwards, Lorin. (See Van Brunt, C. W., and Edwards.)
Edwards, Louis F., Noble, La. Wire-stretcher. No. 1,374,838; Apr. 12; v. 285; p. 323.
Edwards, Thomas, Milton, Mass. Adhesive cement and making same. No. 1,374,992; Apr. 19; v. 285; p. 415.
Edwards, William A., assignor, by mesne assignments, to W. Reid, Chicago, Ill. Carbureter. No. 1,375,684; Apr. 26; v. 285; p. 580.
Edwards, William H., Grand Rapids, Mich. Covering for books. No. 1,375,040; Apr. 19; v. 285; p. 425.
Eggers, William P., Fond du Lac, Wis. Collapsible window. No. 1,376,193; Apr. 26; v. 285; p. 677.
Ehne, Arthur J. (See Ehne, John, assignor.)
Ehne, John, assignor to A. J. Ehne, Milwaukee, Wis. Lawn-edge trimmer. No. 1,374,641; Apr. 12; v. 285; p. 286.
Eickman, Elmer H., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Valve. No. 1,375,497; Apr. 19; v. 285; p. 512.
Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
Eldredge, Elmer E., Sidney, N. Y. Sterilizing cheese. No. 1,374,141; Apr. 5; v. 285; p. 148.
Eldridge, Leonard L., Dallas, Tex. Building construction. No. 1,375,955; Apr. 26; v. 285; p. 632.
Electric Furnace Company, The. (See Baily, T. F., and Cope, assignors.)
Electric Service Supplies Company. (See Lewis, H. G., and Mayer, assignors.)
Electric Vulcanizing Rubber Company, The. (See Burke, Wilber B., assignor.)
Electrical Engineering Equipment Company. (See Jacobs, Ernest H., assignor.)
Electron Chemical Company. (See Allen, H. I., and Fox, assignors.)
Electron Chemical Company. (See Allen, Edward A. and H. I., assignors.)
Elevator Company of America. (See Schakel, Jacob D., assignor.)
Elias, Amsih J., New York, N. Y. Dolly-bar. No. 1,373,606; Apr. 5; v. 285; p. 44.
Elin, Nathaniel. (See Reich, Valdemar F., assignor.)
Elledge, Robert B., Tampa, Fla. Desk. No. 1,374,070; Apr. 5; v. 285; p. 134.
Ellings, Soren A., New York, N. Y. Deviascope. No. 1,374,142; Apr. 5; v. 285; p. 148.
Elliott, Edison R., Champaign, Ill. Crank-shaft-lapping tool. No. 1,375,284; Apr. 19; v. 285; p. 472.
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott, Irving H., New York, assignor to H. E. Campbell, Mount Vernon, N. Y. Metal window-frame. No. 1,375,139; Apr. 19; v. 285; p. 444.
Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Steel car construction. No. 1,375,786; Apr. 26; v. 285; p. 598.
Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Steel car construction. No. 1,375,787; Apr. 26; v. 285; p. 599.
Ellis, Carleton, and A. A. Wells, Montclair, N. J., assignors, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Reclaiming dry batteries. No. 1,374,003; Apr. 5; v. 285; p. 122.
Ellis, James, London, England. Collapsible crate, box, and the like. No. 1,374,993; Apr. 19; v. 285; p. 415.
Ellis, Harry E., Leesburg, Fla. Pulp-bleaching apparatus. No. 1,375,285; Apr. 19; v. 285; p. 472.
Elphinstone, Alexander C., West Orange, N. J. Adjustable flagstaff-holder No. 1,373,414; Apr. 5; v. 285; p. 6.
Embree, Herbert, Hamilton, Ontario, Canada. Mantle-sewing machine. No. 1,376,324; Apr. 26; v. 285; p. 702.
Emerson-Brantingham Company. (See Waterman, L. E., Traphagen, and Waterman, assignors.)
Emerson, Victor L., Philadelphia, Pa. Muffler for exhaust-pipes. No. 1,376,263; Apr. 26; v. 285; p. 690.
Emerson, William F., assignor to Buffalo Metal Goods Company, Buffalo, N. Y. Grease-cup. No. 1,373,805; Apr. 5; v. 285; p. 82.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Ship propulsion. No. 1,373,873; Apr. 5; v. 285; p. 96.
Engel, Frank, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dash-pot. No. 1,374,914; Apr. 19; v. 285; p. 400.
Engh, Fred A., Johnstown, Pa. Fluid-pressure motor. No. 1,373,415; Apr. 5; v. 285; p. 7.
Englert, Peter, Lock Haven, Pa. Adjustable shade-roller. No. 1,374,839; Apr. 12; v. 285; p. 323.
English, Fred S., New London, Conn. Printing-press. No. 1,375,450; Apr. 19; v. 285; p. 503.
Englund, Carl R., East Orange, N. J., assignor to American Telephone and Telegraph Company. Radiotelephony. (Reissue.) No. 15,089; Apr. 19; v. 285; p. 544.
Engstrand, Gunnar C., Brooklyn, N. Y. Floating dry-dock. No. 1,376,325; Apr. 26; v. 285; p. 703.
Engstrom, Carl O., Sacramento, Calif. Safety-razor. No. 1,373,874; Apr. 5; v. 285; p. 97.
Enlund, Henning, Syracuse, N. Y. Reamer. No. 1,373,717; Apr. 5; v. 285; p. 65.
Ennis, Amelia J., Columbus, Ga. Sadiron-holder for fireplaces. No. 1,374,004; Apr. 5; v. 285; p. 122.
Ensign, Roy F., Pasadena, Calif. Means for and method of igniting fuel. No. 1,376,194; Apr. 26; v. 285; p. 677.
Entwisle, Edward B. (See Brown, W. M., Entwisle, and Stiff.)
Epple, Herbert J. (See Studebaker, W. M., and Epple.)
Epps, Clinton C., Bristow, Okla. Locking device for vehicles. No. 1,376,085; Apr. 26; v. 285; p. 657.
Erickson, Edward, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe-bottoms. No. 1,373,533; Apr. 5; v. 285; p. 34.
Erickson, Erik G., Baker, Oreg. Window-counterbalance. No. 1,373,955; Apr. 5; v. 285; p. 113.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Substation telephone set. No. 1,373,607; Apr. 5; v. 285; p. 44.
Ericson, George W., Galesburg, Ill. Marker. No. 1,375,685; Apr. 26; v. 285; p. 581.
Erie Metal Products Company. (See Grubman, Leo J., assignor.)
Ervin, Charles L., Los Angeles, Calif. Wave or tide motor. No. 1,376,140; Apr. 26; v. 285; p. 667.
Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,374,557; Apr. 12; v. 285; p. 269.
Espenhahn, Edward V., East Orange, N. J. Recovering cyanogen compounds. (Reissue.) No. 15,090; Apr. 19; v. 285; p. 544.
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Esterline & Angus. (See Angus, Donald J., assignor.)
Etan, Emil E., Bozeman, Mont. Clothes-rack attachment for boilers. No. 1,374,495; Apr. 12; v. 285; p. 257.
Etheridge, David S. (See Graham, Robert C., assignor.)
Etheredge, Francis T. (See Johnson, H. A., and Etheredge, assignors.)
Evans, Humphrey, assignor to Holeproof Hosiery Co., Milwaukee, Wis. Fabric straightening and guiding device. No. 1,375,041; Apr. 19; v. 285; p. 425.
Evans, Ira N., Detroit, Mich. Combined hot-water heating and condensing power system. No. 1,376,326; Apr. 26; v. 285; p. 703.
Evans, Joseph, Buffalo, N. Y. Lock. No. 1,376,141; Apr. 26; v. 285; p. 667.
Evans, Leigh R., assignor to Cyclemotor Corporation, Rochester, N. Y. Saddle. No. 1,373,718; Apr. 5; v. 285; p. 65.
Everett, Edward A., New York, N. Y. Tag and terminal strip. No. 1,373,416; Apr. 5; v. 285; p. 7.
Everett, Howard E., St. Paul, Minn. Safety direction-signal. No. 1,374,725; Apr. 12; v. 285; p. 301.
Everson, William, Alma, Nebr. Aerocycle. No. 1,374,143; Apr. 5; v. 285; p. 148.
Ewart, John W., Mill Hill, England. Water-heater. No. 1,376,142; Apr. 26; v. 285; p. 668.
Ewell, Herbert P., Los Angeles, Calif. Electrochemical gold-separator. No. 1,374,370; Apr. 12; v. 285; p. 232.
F. & M. Novelty Co. (See Marcus, Samuel, assignor.)
Fafnir Bearing Company. (See Cooper, Elisha H., assignor.)
Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
Fafnir Bearing Company, The. (See Sellew, Roland W., assignor.)
Faik, George A., Milwaukee, Wis. Knocked-down or portable structure. No. 1,374,994; Apr. 19; v. 285; p. 415.
Faik, George A., Milwaukee, Wis. Pole for foldable ladder and stretcher structures. No. 1,374,995; Apr. 19; v. 285; p. 415.
Fairchild, Oren J., Pasadena, Calif. Automatic bowling mechanism. No. 1,375,835; Apr. 26; v. 285; p. 608.

Fairman, Milton D. M., South Brownsville, Pa. Automatic cooling system. No. 1,376,086; Apr. 26; v. 285; p. 657.
Falconer, Harry W., Wood county, near Perrysburg, Ohio. Identifying means for automobiles. No. 1,375,370; Apr. 19; v. 285; p. 487.
Fallon, Edward F., Harrisonburg, Va. Rail-spike. No. 1,373,875; Apr. 5; v. 285; p. 97.
Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Suction air-strainer. No. 1,375,498; Apr. 19; v. 285; p. 512.
Farnum, William C., Winchendon, Mass. Gear-cutting machine. No. 1,373,956; Apr. 5; v. 285; p. 113.
Farnum, William C., Winchendon, Mass. Gear-cutting machine. No. 1,373,957; Apr. 5; v. 285; p. 113.
Farnum, William C., Winchendon, Mass. Attachment for cutting teeth of bevel-gears. No. 1,373,958; Apr. 5; v. 285; p. 113.
Farrand, Harry M., Cleveland, Ohio. Freight-car. No. 1,374,292; Apr. 12; v. 285; p. 217.
Farre, William. (See Jakobsson, Karl A., assignor.)
Farrel, Stephen A., Brooklyn, N. Y., assignor to Automatic Gun Control Company. Control means for guns or the like. No. 1,374,144; Apr. 5; v. 285; p. 148.
Farrell, James, Cleveland, Ohio. Making carbonizing compounds. No. 1,374,642; Apr. 12; v. 285; p. 286.
Fasey, William R., Snaresbrook, England. Two-cycle internal-combustion engine. No. 1,374,915; Apr. 19; v. 285; p. 400.
Fasey, William R., Snaresbrook, England. Internal-combustion engine. No. 1,375,140; Apr. 19; v. 285; p. 444.
Faubion, James C., assignor of one-half to L. B. Moore, Hope, Ark. Harrow. No. 1,375,086; Apr. 19; v. 285; p. 433.
Faul, Charles, St. Kilda, and H. Lavers, Surrey Hills, Victoria, Australia, assignors, by mesne assignments, to Minerals Separation North American Corporation. Separation of mixed sulfid ores. No. 1,375,087; Apr. 19; v. 285; p. 434.
Feddersen, Ernest A., and R. F. Schott, San Francisco, Calif. Sheet-feeding device. No. 1,375,042; Apr. 19; v. 285; p. 426.
Federal Machine Products Company, The. (See Green, Lee B., assignor.)
Feist, Sidney E., Brooklyn, N. Y. Apparatus for teaching dancing. No. 1,374,840; Apr. 12; v. 285; p. 324.
Feldt, Henning A. (See Joyce, W. P., and Feldt.)
Felton, August C., La Salle, Ill. Clamp. No. 1,375,686; Apr. 26; v. 285; p. 581.
Fenton, William H. (See Shirek, S., and Fenton.)
Ferguson, E. M., *et al.* (See Auger, Joseph T., assignor.)
Fernandez, Alphonse, Washington, D. C. Window-cleaning device. No. 1,376,195; Apr. 26; v. 285; p. 677.
Fesler, Milton A., assignor to Petroleum Heat and Power Company, Oakland, Calif. Liquid-fuel-burning furnace. No. 1,376,010; Apr. 26; v. 285; p. 642.
Fessenden, Chet C. Derby, Conn. Lathe-dog. No. 1,375,499; Apr. 19; v. 285; p. 512.
Fessenden, Reginald A., Chestnut Hill, Mass. Wireless direction-finder. No. 1,374,293; Apr. 12; v. 285; p. 218.
Fetter, Edward, assignor to The Pneumatic Tube Steam Splicer Company, Baltimore, Md. Vulcanizing apparatus and process. (Reissue.) No. 15,076; Apr. 5; v. 285; p. 153.
Fevola, Rose and A., Brooklyn, N. Y. Radiator. No. 1,375,500; Apr. 19; v. 285; p. 512.
Field, Edward A., & Edward A. Field, Jr., Oak Park, Ill. Internal-combustion engine. No. 1,373,876; Apr. 5; v. 285; p. 97.
Field, Edward A., Jr. (See Field, Edward A., and E. A.)
Fields, Joseph P., Attapulgus, Ga. Peanut-harvesting machine. No. 1,375,578; Apr. 19; v. 285; p. 527.
Fifield, Jasper E., San Diego, Calif. Core for molding hollow walls. No. 1,373,877; Apr. 5; v. 285; p. 97.
Finefrock, John A., Canal Fulton, Ohio. Differential gearing. No. 1,373,657; Apr. 5; v. 285; p. 53.
Fink, Ralph A. (See Baumann, G. P., and Fink.)
Fink, William B., assignor of one-half to G. F. Hullings, New York, N. Y. Washing-machine. No. 1,373,494; Apr. 5; v. 285; p. 23.
Finkelstein, Abraham, Philadelphia, Pa. Pencil-holder. No. 1,374,841; Apr. 12; v. 285; p. 324.
Finlayson, Murdo G., Chicago, Ill. Floor-strip holder. No. 1,375,043; Apr. 19; v. 285; p. 426.
Finnemann, Martin, Kimball, Minn. Portable cooker. No. 1,374,842; Apr. 12; v. 285; p. 324.
Firestone Steel Products Company, The. (See Woodward, Alva W., assignor.)
Fischbach, Many, New York, N. Y. Belt-tightener. No. 1,374,643; Apr. 12; v. 285; p. 286.
Fischer, Ernst G., Washington, D. C. Fine-motion device for surveying and other instruments. No. 1,376,327; Apr. 26; v. 285; p. 703.
Fischer, Howard L., and F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,375,579; Apr. 19; v. 285; p. 527.
Fisher, Ernest F., Essington, Pa. Refrigerating apparatus. No. 1,375,836; Apr. 26; v. 285; p. 608.
Fisher, Richard J. D., Philadelphia, and J. de A. Holt, Mount Airy, Pa. Fountain-brush. No. 1,374,294; Apr. 12; v. 285; p. 218.
Fisher, Seguin, Johannesburg, Transvaal, South Africa. Feed device for rock-drills. No. 1,374,996; Apr. 19; v. 285; p. 416.
Fisher, Thomas, Kearney, N. J. Plate-lifter. No. 1,375,580; Apr. 19; v. 285; p. 527.
Fisher, Virdie L., Fairplain, W. Va. Reel attachment for mowing-machines. No. 1,376,268; Apr. 26; v. 285; p. 601.
FitzGerald, John W., Detroit, Mich. Regulator for electric-lighting systems on motor-vehicles. No. 1,373,806; Apr. 5; v. 285; p. 83.
Fitzpatrick, Edmund D., *et al.* (See Dunn, Edmund L., assignor.)
Flaherty, James E., St. Louis, Mo. Churn-dasher. No. 1,374,843; Apr. 12; v. 285; p. 334.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flatow, John L., Washington, D. C. Game. No. 1,374,844; Apr. 12; v. 285; p. 324.
Fleischer, Paul W., West Hoboken, N. J., assignor to American Can Company, New York, N. Y. Can-feeding mechanism. No. 1,375,371; Apr. 19; v. 285; p. 488.
Fleury, Louis A., Indianapolis, Ind. Pneumatic jack. No. 1,374,295; Apr. 12; v. 285; p. 218.
Fliedner, Helen M., Cleveland, Ohio. Educational furniture toy. No. 1,376,087; Apr. 26; v. 285; p. 657.
Flint, George C., Chicago, Ill. Humidifier for printing-machines or the like. No. 1,374,726; Apr. 12; v. 285; p. 302.
Flood, Joseph J., East Orange, N. J. Binding-post for storage batteries. No. 1,375,654; Apr. 19; v. 285; p. 542.
Florcskul, Gabriel, Toronto, Ontario, Canada. Collapsible chair. No. 1,373,959; Apr. 5; v. 285; p. 113.
Folkush, Martin, Milwaukee, Wis. Noise-maker. No. 1,374,644; Apr. 12; v. 285; p. 286.
Follick, George W., Buffalo N. Y. Combination-lock. No. 1,375,044; Apr. 19; v. 285; p. 426.
Foltz, Le Roy S., Fort Collins, Colo. Burglar and fire alarm. No. 1,373,495; Apr. 5; v. 285; p. 23.
Fontaine, Joseph D., North Attleboro, Mass. Cuff-link. No. 1,375,581; Apr. 19; v. 285; p. 528.
Fontneau, Earle N., Attleboro, Mass. Soft-collar holder. No. 1,376,372; Apr. 26; v. 285; p. 711.
Foote, John B., Oak Park, Ill. Tractor. No. 1,373,608; Apr. 5; v. 285; p. 44.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Platen equipment for typewriting-machines. No. 1,375,749; Apr. 26; v. 285; p. 592.
Forcier, William G., Wollaston, Mass. Ventilator. No. 1,373,960; Apr. 5; v. 285; p. 114.
Ford, Charles C., Point Loma, Calif. Grade-indicator. No. 1,375,141; Apr. 19; v. 285; p. 444.
Ford, Claud J., assignor to S. L. Savidge, Portland, Oreg. Mounting for shock-absorbers. No. 1,374,997; Apr. 19; v. 285; p. 416.
Ford, Henry, Dearborn, Mich. Clutch. No. 1,375,956; Apr. 26; v. 285; p. 632.
Ford Motor Company. (See Wandersee, J. F., Peretto, and Albrecht, assignors.)
Ford Motor Company of Delaware. (See Albrecht, T., Peretto, and Wandersee, assignors.)
Ford, William H. D., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic relay. No. 1,374,193; Apr. 12; v. 285; p. 198.
Forkner, Robert F., Princeton, W. Va., and A. Straightiff, Roanoke, Va. Removable wrist-pin bearing. No. 1,375,142; Apr. 19; v. 285; p. 444.
Forney, Ernest S., Fullerton, Nebr. Stalk-cutting machine. No. 1,375,582; Apr. 19; v. 285; p. 528.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric range. No. 1,374,558; Apr. 12; v. 285; p. 269.
Forsyth, George H., Chicago, Ill. Apparatus for electric welding. No. 1,375,687; Apr. 26; v. 285; p. 581.
Fortescue, Charles L., Pittsburgh, and G. I. Gilchrest, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Insulator. No. 1,374,998; Apr. 19; v. 285; p. 416.
Fortescue, Charles Le G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Induction-motor control. No. 1,374,559; Apr. 12; v. 285; p. 269.
Fortner, Harry F., Clinton, Ind. Paper-trimming means. No. 1,376,264; Apr. 26; v. 285; p. 690.
Fortney, Chauncey O., Bowling Green, Ohio. Lubricator. No. 1,375,143; Apr. 19; v. 285; p. 445.
Forsyth, George H., Harvey, Ill. Disk wheel. No. 1,375,372; Apr. 19; v. 285; p. 488.
Foss, Fred G., Newark, N. J., assignor to American Can Company, New York, N. Y. Drying cans. No. 1,375,373; Apr. 19; v. 285; p. 488.
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster, Charles E., Letchworth, England. Electrical measuring instrument. No. 1,375,837; Apr. 26; v. 285; p. 608.
Foster, Frank M., Washington, D. C. Ignition-switch. No. 1,374,440; Apr. 12; v. 285; p. 246.
Foster, Harry C., assignor to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,373,878; Apr. 5; v. 285; p. 97.
Foster-Johnson Reamer Company. (See Johnson, William B., assignor.)
Foster, Merriam & Company. (See Hinckley, Percy P., assignor.)
Foster-Reinhold Laboratories. (See Reinhold, Otto F., assignor.)

Foster, Wade H., Bad Axe, Mich. Footwear-vulcaniser. No. 1,374,371; Apr. 12; v. 285; p. 233.
Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Sliding-side crib. No. 1,376,328; Apr. 26; v. 285; p. 703.
Four Wheel Drive Auto Co. (See Sorensen, James, assignor.)
Fowler, Elbert, U. S. Army. Trigger and sear mechanism for machine-guns. No. 1,375,451; Apr. 19; v. 285; p. 504.
Fowler, Fannie A., administratrix. (See Fowler, Nathaniel C., Jr.)
Fowler, Nathaniel C., Jr., deceased; F. A. Fowler, Somerville, Mass., administratrix. Composition of sugar and preparing the same. No. 1,374,160; Apr. 5; v. 285; p. 151.
Fowler, William M., Sound Beach, Conn. Dispensing-nozzle for bottling-machines. No. 1,376,088; Apr. 26; v. 285; p. 657.
Fox, Kent R. (See Allen, H. I., and Fox.)
Fraley, John H., Tiffin, Ohio. Oil-cup. No. 1,376,265; Apr. 26; v. 285; p. 691.
Francis, Henry A., Niagara Falls, N. Y. Hook and eye carding device. No. 1,374,071; Apr. 5; v. 285; p. 134.
Franck, Emil J., Philadelphia, Pa. Welt attachment for knitting-machines. No. 1,374,496; Apr. 12; v. 285; p. 257.
Franckaerts, Emile, San Francisco, Calif. Check-hinge. (Reissue.) No. 15,082; Apr. 12; v. 285; p. 335.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. No. 1,376,011; Apr. 26; v. 285; p. 642.
Franklin, E. I., & Co. (See Willis, Warren E., assignor.)
Franklin, Emlen A., Fort Collins, Colo. Tailing-separator. No. 1,374,645; Apr. 12; v. 285; p. 286.
Franks, George, and O. Sproesig, New York, N. Y. Steamer, cleaner, and presser. No. 1,373,879; Apr. 5; v. 285; p. 98.
Frantz, Grover C., Harrisburg, Pa. Kitchen-cabinet. No. 1,375,144; Apr. 19; v. 285; p. 445.
Frecheville, George, London, England. Electrically-operated horn for motor-vehicles. No. 1,373,496; Apr. 5; v. 285; p. 23.
Fredd, Oscar M., Hancock, Mich. Vulcanizer. No. 1,373,807; Apr. 5; v. 285; p. 83.
Fredd, Oscar M., Hancock, Mich. Vulcanizing-mold. No. 1,376,196; Apr. 26; v. 285; p. 677.
Fredrikstad Elektrokemiske Fabriker A/S. (See Langhard, Johann K., assignor.)
Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Mill for cold-rolling skelp. No. 1,374,145; Apr. 5; v. 285; p. 148.
Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Bending skelp. No. 1,374,146; Apr. 5; v. 285; p. 148.
Freeman, Irving M., Fayetteville, Ark. Dustpan. No. 1,376,012; Apr. 26; v. 285; p. 642.
Freer, James S., Rutherford, N. J. Method and apparatus for preparing photoengraving-plates. No. 1,373,658; Apr. 5; v. 285; p. 54.
Fregly, Alphonso F. (See Jerruss, J., and Fregly.)
French Battery & Carbon Co. (See Graves, John, assignor.)
French, Harry F. (See Benner, R. C., and French.)
French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,374,727; Apr. 12; v. 285; p. 302.
Frensdorf, Herman R., Kimberly, Wis. Gun-sight. No. 1,376,080; Apr. 26; v. 285; p. 657.
Fresk, Per A., Robertsfors, Sweden. Barking-machine. No. 1,375,374; Apr. 19; v. 285; p. 488.
Freund, Louis L., Spokane, Wash. Carrier. No. 1,374,372; Apr. 12; v. 285; p. 233.
Fried. Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Haller, Kurth, assignor.)
Fried. Krupp Aktiengesellschaft. (See Sundhaussen, Herman, assignor.)
Friedline, William H., Meyersdale, assignor to Modernola Company, Johnstown, Pa. Cabinet. No. 1,376,266; Apr. 26; v. 285; p. 691.
Frier, Victor H., Wakonda, S. D. Post-puller. No. 1,373,609; Apr. 5; v. 285; p. 44.
Fries, Charles H., Chicago, Ill. Tool. No. 1,375,088; Apr. 19; v. 285; p. 434.
Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Speed-change mechanism. No. 1,375,216; Apr. 19; v. 285; p. 459.
Frischmann, Nicholas, St. Francis, Wis. Cement building. No. 1,375,788; Apr. 26; v. 285; p. 599.
Frist, Archie C., Long Beach, Calif. Motion-picture projection-machine shutter. No. 1,375,375; Apr. 19; v. 285; p. 489.
Friz, Max, Milbertshofen, near Munich, assignor to Bayerische Motoren Werke, Aktiengesellschaft, Munich, Bavaria, Germany. Arrangement for resilient power transmission. No. 1,375,688; Apr. 26; v. 285; p. 581.
Froehlick, Harry T., Philadelphia, Pa., assignor, by mesne assignments, to C. F. Stauffen, Baltimore, Md. Scrap-bunching machine. No. 1,374,441; Apr. 12; v. 285; p. 247.
Frost, Clayton H., Orange, N. J. Engine. No. 1,376,267; Apr. 26; v. 285; p. 691.
Frost, Jules A., Alafia, Fla. Stamp-inking device. No. 1,374,883; Apr. 12; v. 285; p. 332.
Fry, Roy C. (See Tooker, Charles O., assignor.)
Frye, Robert B., Pueblo, Colo. Plant-protector. No. 1,375,588; Apr. 19; v. 285; p. 528.
Fujii, Mitsuzo Mita, Shiba-ku, Tokyo, Japan. Prismatic binocular. No. 1,373,554; Apr. 5; v. 285; p. 34.
Fuld, William. (See Norwood, Harry G., assignor.)
Fuld, William A. (See Norwood, Harry G., assignor.)
Fullenwider, George R., Fairfield, Mont. Angular-socket wrench. (Reissue.) No. 15,093; Apr. 26; v. 285; p. 715.
Fulton, Guy L. (See Cullen, Harry S., assignor.)
Fumagalli, Giacomo. (See Cardone, P., Fumagalli, and Surico.)
Funderburg, Coral V., Yellow Springs, Ohio. Electric burner. No. 1,375,145; Apr. 19; v. 285; p. 445.
Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Blacking-machine. No. 1,373,497; Apr. 5; v. 285; p. 23.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Surface-scouring machine. No. 1,374,194; Apr. 12; v. 285; p. 199.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blacking-machine. No. 1,375,838; Apr. 26; v. 285; p. 609.
Furnari, Luigi, Ravenna, Ohio. Spading-machine. No. 1,374,195; Apr. 12; v. 285; p. 199.
Fynn, Valère A., assignor to Western Electric Manufacturing Company, St. Louis, Mo. Oil-seal for bearings. No. 1,375,376; Apr. 19; v. 285; p. 489.
G. & J. Tire Company. (See Brown, Frank A., assignor.)
Gabel, Herman W., San Francisco, Calif. Polishing-machine. No. 1,375,377; Apr. 19; v. 285; p. 489.
Gaddess, Harry W., Baltimore, Md. Ventilator. No. 1,375,378; Apr. 19; v. 285; p. 489.
Gaff, Thomas T., Washington, D. C. Liquid-fuel-feeding device. No. 1,373,498; Apr. 5; v. 285; p. 23.
Gagné, Augustin, Central Falls, assignor, by mesne assignments, to Hemphill Company, Pawtucket, R. I. Stop-motion and alarm mechanism for knitting-machines. No. 1,375,217; Apr. 19; v. 285; p. 459.
Galbraith, Harriet L., Washington, D. C. Sadiron-stand. No. 1,376,269; Apr. 26; v. 285; p. 692.
Gallagher, John P., Jersey City, N. J., assignor to Victor Equipment Co., Inc. Flush car-door. No. 1,375,689; Apr. 26; v. 285; p. 581.
Gallemore, Wilburn A., South Clinchfield, Va. Reboring-machine. No. 1,375,839; Apr. 26; v. 285; p. 609.
Galloway, Charles D. (See Smith, E. W., Galloway, and Ambruster.)
Gamble, John A., assignor of one-fifth to J. B. Aranta, Chicago, Ill. Caster and the like. No. 1,375,379; Apr. 19; v. 285; p. 489.
Ganster, Joseph A., Philadelphia, Pa. Roller-bearing. No. 1,374,560; Apr. 12; v. 285; p. 270.
Ganzhorn, Philip, Chicago, Ill. Knife. No. 1,375,501; Apr. 19; v. 285; p. 513.
Garbell, Max, assignor to Garbell Typewriter Corporation, Chicago, Ill. Combined paper-feed and finger-releasing mechanism for typewriters. No. 1,374,999; Apr. 19; v. 285; p. 416
Garbell Typewriter Corporation. (See Garbell, Max, assignor.)
Garbutt, Harry L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 1,374,561; Apr. 12; v. 285; p. 270.
Garcillán, Ciriaco, New York, N. Y. Advertising device. No. 1,374,005; Apr. 5; v. 285; p. 122.
Gardner, Alphons G., Los Angeles, Calif. Pressure-bar for piano-strings. No. 1,375,146; Apr. 19; v. 285; p. 445.
Gardner, Henry A., Washington, D. C. Fumigant paint. No. 1,373,499; Apr. 5; v. 285; p. 24.
Gardiner, William, Chicago, Ill., assignor to E. W. Wickey, East Chicago, Ind. Electrolyte for storage batteries. No. 1,374,916; Apr. 19; v. 285; p. 401.
Garnier, Léonce, San Sebastian, Spain. Vacuum-feed tank for internal-combustion engines. No. 1,374,442; Apr. 12; v. 285; p. 247.
Garon, Israel, Duluth, Minn. Textile fabric. No. 1,373,880; Apr. 5; v. 285; p. 98.
Garred, Ulysses V., Lexington, Ky. Memorandum attachment for albums. No. 1,374,646; Apr. 12; v. 285; p. 287.
Garrison, Charles E. (See Hays, E. F., and Garrison.)
Garver, Joseph L. (See Howe, Charles W., assignor.)
Garwood Company. (See Karitzky, John, assignor.)
Gates, Henry C., Cedar Rapids, Iowa. Chocolate-cooling machine. No. 1,375,380; Apr. 19; v. 285; p. 490.
Gates, John F., Corcoran, Calif. Pump control. No. 1,376,270; Apr. 26; v. 285; p. 692.
Gauntt, Walter E., Pine Hill, Ky. Angle-bar for rail-joints. No. 1,374,497; Apr. 12; v. 285; p. 257.
Gedney, Stanley L., Maplewood, N. J. Collar-pin. No. 1,374,006; Apr. 5; v. 285; p. 122.
Gedney, Stanley L., Maplewood, N. J. Collar-fastener. No. 1,374,007; Apr. 5; v. 285; p. 123.
Geer, Glenn L., Elmira, N. Y. Sheet-music turner. No. 1,374,147; Apr. 5; v. 285; p. 149.

Geier, Leo J., St. Henry, Ohio. Elevator. No. 1,374,728; Apr. 12; v. 285; p. 302.
General Ceramics Company. (See Scharl, John, assignor.)
General Chemical Company. (See Baird, Dudley, assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Armor, James C., assignor.)
General Electric Company. (See Batchelder, Asa F., assignor.)
General Electric Company. (See Beck, Heinrich, assignor.)
General Electric Company. (See Chatain, Henri G., assignor.)
General Electric Company. (See Creighton, Elmer E. F., assignor.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Frank, John J., assignor.)
General Electric Company. (See French, Henry G., assignor.)
General Electric Company. (See Hamilton, William S. H., assignor.)
General Electric Company. (See Harrison, Ward, assignor.)
General Electric Company. (See Hill, Charles H., assignor.)
General Electric Company. (See Johannesen, Svend E., assignor.)
General Electric Company. (See Korthals-Altes, Willem C., assignor.)
General Electric Company. (See Loewenstein, Louis C., assignor.)
General Electric Company. (See Long, M. E., and Katzung, assignors.)
General Electric Company. (See McNairy, Jacob W., assignor.)
General Electric Company. (See Pacz, Aladar, assignor.)
General Electric Company. (See Pierce, H. T. and McPhee, assignors.)
General Electric Company. (See Pratt, John B., assignor.)
General Electric Company. (See Pressey, Wilbur A., assignor.)
General Electric Company. (See Samuelson, Frederick, assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Strickland, Royal F., assignor.)
General Electric Company. (See Thompson, Benjamin H., assignor.)
General Electric Company. (See Thompson, Louis W., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Unger, Magnus, assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Electric Company. (See Winter, Fred H., assignor.)
General Electric Company, assignee. (See Hill, George H.) (Reissue.)
General Fireproofing Company, The. (See White, H. E., and Philbin, assignors.)
General Gas Light Company. (See Humphrey, Alfred H., assignor.)
General Motors Company. (See Short, Charles R., assignor.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
General Wire Tie Co. (See Warwick, Rogers M., assignor.)
George, Barnett L., Salt Lake City, Utah. Concentrating ores by flotation. No. 1,375,957; Apr. 26; v. 285; p. 632.
George, Leon W., St. Louis, Mo., assignor to Howe Safety Appliance Company, Granite City, Ill. Finger-guard. No. 1,375,690; Apr. 26; v. 285; p. 582.
Gerber, John L., Pittsburgh, Pa. Die-casting apparatus. No. 1,376,090; Apr. 26; v. 285; p. 658.
Gerber, Max. (See Bloom, H., Gerber, and Piterman.)
Gerdin, Olaf B., Seattle, Wash. Glass-cutter. No. 1,375,958; Apr. 26; v. 285; p. 632.
Gero, Paul E., Manistique, Mich. Detachable traction-tread. No. 1,375,584; Apr. 19; v. 285; p. 528.
Getches, Raymond N., Glen Ridge, and I. Tornberg, Plainfield, N. J. Perfecting multicolor web-press. No. 1,374,196; Apr. 12; v. 285; p. 199.
Gibbs, Charles E., Manhattan, Kans. Timer-brush. No. 1,374,072; Apr. 5; v. 285; p. 135.
Gibbs, John H., West Orange, N. J. Collapsible-tube holder. No. 1,374,845; Apr. 12; v. 285; p. 325.
Gibbs, Walter A., Wilmington, Del. Support for traps. No. 1,375,286; Apr. 19; v. 285; p. 472.
Gibbs, William E., Portland, Oreg. Crosscut-saw gage. No. 1,373,719; Apr. 5; v. 285; p. 65.
Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Sadiron-holder. No. 1,376,197; Apr. 26; v. 285; p. 677.
Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Sadiron-holder. No. 1,376,329; Apr. 26; v. 285; p. 703.
Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Combined rod and ornament. No. 1,376,330; Apr. 26; v. 285; p. 704.
Gibson, Theodore, Tulsa, Okla. Grain-car door. No. 1,374,073; Apr. 5; v. 285; p. 135.
Giddings, Allan M. (See Giddings, Frank R., assignor.)
Giddings, Frank R., Kalamazoo, assignor of one-half to A. M. Giddings, Battle Creek, Mich. Popcorn holder and display cabinet. No. 1,375,502; Apr. 19; v. 285; p. 513.
Gilbert & Barker Manufacturing Company. (See Kunitz, Hannibal A., assignor.)
Gilbert, James L. (See Lamprecht, Carl W., assignor.)
Gilbert, John H., Plant City, assignor of one-half to H. A. Driggers, Mulberry, Fla. Adjustable shade-bracket. No. 1,374,498; Apr. 12; v. 285; p. 258.
Gilbert, Joseph N., Minneapolis, Minn. Machine for discharging projectiles. No. 1,376,013; Apr. 26; v. 285; p. 642.
Gilchrest, George I. (See Forteague, C. L., and Gilchrest.)
Gilchrist, Clarence F., assignor to Willys Corporation, Toledo, Ohio. Dynamo-electric machine and brush-holder device therefor. No. 1,375,658; Apr. 19; v. 285; p. 543.
Gilda, John R., St. Louis, Mo. Nailing-machine. No. 1,373,961; Apr. 5; v. 285; p. 114.
Gilda, John R., assignor of one-half to W. Schield, St. Louis, Mo. Lye-crushing machine. No. 1,375,503; Apr. 19; v. 285; p. 513.
Gilleran, Joseph L., Plainfield, Conn. Temple-roll bracket. No. 1,374,074; Apr. 5; v. 285; p. 135.
Gillespie, Charles, *et al.* (See Kauffman, Sherman, assignor.)
Gillespie, Homer, *et al.* (See Kauffman, Sherman, assignor.)
Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Stylus-bar attachment for phonographs. No. 1,375,750; Apr. 26; v. 285; p. 592.
Gillian, Herman A., assignor to The Bacon Bros. Company, Toledo, Ohio. Glove. No. 1,375,904; Apr. 26; v. 285; p. 622.
Gillice, Michael J., Buffalo, N. Y. Armor for pneumatic tires. No. 1,373,881; Apr. 5; v. 285; p. 98.
Gilman, Willard H., New York, N. Y., and M. H. Loughridge, Bogota, N. J. Mechanical vibrator. No. 1,374,197; Apr. 12; v. 285; p. 199.
Gimingham, Edward A., London, England. Arc incandescent electric lamp. No. 1,374,647; Apr. 12; v. 285; p. 287.
Ginter, James C., Breckenridge, Tex. Grapple. No. 1,376,014; Apr. 26; v. 285; p. 643.
Giordano, Pedro, Buenos Aires, Argentina. Marker. No. 1,374,443; Apr. 12; v. 285; p. 247.
Gish, Daniel B., Washington, D. C. Treating hydrocarbons. No. 1,373,720; Apr. 5; v. 285; p. 65.
Giza, Ignacy, Deep River, Conn. Puzzle. No. 1,374,729; Apr. 12; v. 285; p. 302.
Gjukić, Simo, Columbus, Ohio. Lock. No. 1,375,287; Apr. 19; v. 285; p. 472.
Glamar Machine Company. (See Thompson, Garoid J., assignor.)
Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gromet-setting machine. No. 1,373,500; Apr. 5; v. 285; p. 24.
Glassco, Robert C., assignor of two-thirds to Computing Cheese Cutter Company, Anderson, Ind. Paring device. No. 1,373,882; Apr. 5; v. 285; p. 98.
Gleason Works. (See Bullock, E. W., Earl, and Bryan, assignors.)
Glenn, John C., Erie, Pa. Dewatering mechanism for paper-machine drums. No. 1,374,198; Apr. 12; v. 285; p. 199.
Glenn, Samuel, Seattle, Wash. Truck and tractor attachment for automobiles. No. 1,375,000; Apr. 19; v. 285; p. 416.
Globe Machine & Stamping Co., The. (See Panek, Emil, assignor.)
Gloor, George A. (See Shallor, Frank E., assignor.)
Goddu, George. (See Mackenzie, F. L., and Goddu.)
Goertz, August, & Co.. (See Goertz, Frederick, assignor.)
Goertz, Frederick, Newark, N. J., assignor to August Goertz & Co. Rack device. No. 1,375,840; Apr. 26; v. 285; p. 609.
Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Controller for heating systems. No. 1,373,447; Apr. 5; v. 285; p. 7.
Golden, James M., Los Angeles, Calif. Hair-net holders. No. 1,375,381; Apr. 19; v. 285; p. 490.
Goldie, William, Wilkinsburg, Pa. Combined metallic and concrete floor and ceiling construction. No. 1,375,288; Apr. 19; v. 285; p. 473.
Goldsmith, Byron B., New York, N. Y. Producing condensation products. No. 1,375,959; Apr. 26; v. 285; p. 632.
Goldstein, Albion M., St. Louis, Mo. Combined collar-button and necktie-guiding device. No. 1,373,418; Apr. 5; v. 285; p. 7.
Goldstone, Herman A., New York, N. Y. Buyer's guide. No. 1,376,198; Apr. 26; v. 285; p. 677.

Goltry, Annie, North Platte, Nebr. Hoisting apparatus. No. 1,374,444; Apr. 12; v. 285; p. 247.
Gomber, George W., Conyngham, assignor to A. W. Drake Manufacturing Co., Hazleton, Pa. Cork-extractor. No. 1,375,382; Apr. 19; v. 285; p. 490.
González, José E., Union de Reyes, Cuba. Burner. No. 1,373,610; Apr. 5; v. 285; p. 45.
Good Luck Tire & Rubber Co. (See Stickel, Charles W., assignor.)
Goodlake, Frederick D., West Palm Beach, Fla. Repairing tire-casings. No. 1,374,846; Apr. 12; v. 285; p. 325.
Goodrich, George E., Providence, R. I. Fastener. No. 1,375,693; Apr. 26; v. 285; p. 582.
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective switch. No. 1,375,691; Apr. 26; v. 285; p. 582.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching device. No. 1,375,692; Apr. 26; v. 285; p. 582.
Goodwin, Mary. (See Goodwin, William and M.)
Goodwin, William and M., Peterboro, Ontario, Canada. Valve. No. 1,375,585; Apr. 19; v. 285; p. 528.
Goodyear, Katharine F., administratrix. (See Goodyear, Nelson.)
Goodyear, Nelson, deceased, by K. F. Goodyear, administratrix, New York, N. Y., assignor, by mesne assignments, to The Pneumatic Acetylene Generator Corporation. Acetylene-generator. No. 1,373,419; Apr. 5; v. 285; p. 7.
Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
Goodyear Tire & Rubber Company. (See Harsel, William B., assignor.)
Goodyear Tire & Rubber Company, The. (See Kilborn, Karl B., assignor.)
Goodyear Tire and Rubber Co. (See Nall, Edward, assignor.)
Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)
Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
Gorham Manufacturing Company. (See North, George H., assignor.)
Gosney, Robert E., assignor of one-half to H. C. Traver, Bishop, Calif. Needle-plate holder. No. 1,375,383; Apr. 19; v. 285; p. 490.
Gotsche, Frank, San Francisco, Calif. Combined game and educational device. No. 1,376,199; Apr. 26; v. 285; p. 678.
Gottlieb, Morris, Philadelphia, Pa. Spark-plug. No. 1,374,747; Apr. 12; v. 285; p. 325.
Gouge, Horace E., Bristol, Tenn. Electric steering system. No. 1,376,271; Apr. 26; v. 285; p. 692.
Government of the United States, represented by the Secretary of the Navy. (See Boesch, Harry L., assignor.)
Gowing, Ernest T., assignor of one-half to O. S. Pickard, Evans Mills, N. Y. Horseshoe-calk. No. 1,374,848; Apr. 12; v. 285; p. 325.
Grable, Myrtle, Nahcotta, Wash. Hair-crimper. No. 1,375,504; Apr. 19; v. 285; p. 513.
Grady, Frank M., Butte, Mont. Street-cleaning device. No. 1,375,505; Apr. 19; v. 285; p. 514.
Graff, David L., New York, N. Y., assignor to National Carbon Company, Inc. Portable electric light. No. 1,373,611; Apr. 5; v. 285; p. 45.
Grah, William, Waterville, Ohio. Low-liquid alarm. No. 1,373,420; Apr. 5; v. 285; p. 8.
Graham, Edward M., Chicago, Ill. Pliers. No. 1,373,555; Apr. 5; v. 285; p. 34.
Graham, Frank A., Harbor Springs, Mich. Centerboard. No. 1,374,008; Apr. 5; v. 285; p. 123.
Graham, Joseph A., Alleman, Iowa. Lever-locking device. No. 1,375,289; Apr. 19; v. 285; p. 473.
Graham, Robert C., assignor of one-half to D. S. Etheridge, Chattanooga, Tenn. Receptacle and separator for particles of gold and other precious metals. No. 1,374,075; Apr. 5; v. 285; p. 135.
Graham, Walter A., Salisbury, N. C. Suspension-clamp for cables. No. 1,373,421; Apr. 5; v. 285; p. 8.
Grannis, Arthur W., Waterloo, Iowa. Adjustable implement. No. 1,375,751; Apr. 26; v. 285; p. 592.
Grant, Charles G., *et al.* (See Stephens, Samuel F., assignor.)
Grant, Frank, Westfield, Mass. Holder for shaving-soap sticks. No. 1,374,157; Apr. 5; v. 285; p. 151.
Granz, Joseph, Duluth, Minn. Optical projection apparatus. No. 1,375,089; Apr. 19; v. 285; p. 434.
Grasswick, Carl A., Minneapolis, assignor to Wood-Craft Company, St. Paul, Minn. Circulating-pump. No. 1,374,884; Apr. 12; v. 285; p. 332.
Graves, Fred D., Owego, N. Y. Hose-supporter. No. 1,374,009; Apr. 5; v. 285; p. 123.
Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Pocket hand-lamp. No. 1,375,586; Apr. 19; v. 285; p. 629.
Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Pocket hand-lamp. No. 1,375,587; Apr. 19; v. 285; p. 529.
Gravity Door Hanger Company, The. (See Larson, Andrew F., assignor.)
Gravity Grain Grader Company. (See Stone, John M. and A. L., assignors.)
Gray, Edwin D., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Centrifugal separator. No. 1,375,506; Apr. 19; v. 285; p. 514.
Gray, George C. G., Philadelphia, Pa. Air control for oil-burning furnaces. No. 1,373,501; Apr. 5; v. 285; p. 24.
Gray, William, Rochester, N. Y. Attachment for eave-troughs. No. 1,373,883; Apr. 5; v. 285; p. 98.
Green, Arthur, Coventry, England. Ball-and-socket joint for linkwork. No. 1,375,905; Apr. 26; v. 285; p. 622.
Green, Harry E., Hampton, New Brunswick, Canada. Figure wheeled toy. No. 1,374,296; Apr. 12; v. 285; p. 218.
Green, John R., Girard, Tex. Adjustable luggage-carrier. No. 1,373,502; Apr. 5; v. 285; p. 24.
Green, Lee B., assignor to The Federal Machine Product Company, Cleveland, Ohio. Power-transmitting mechanism. No. 1,373,556; Apr. 5; v. 285; p. 35.
Green, Samuel G. (See Butler, J. S., and Green, assignor.)
Green, Walter R., Chicago, Ill. Bicycle luggage-carrier. No. 1,375,752; Apr. 26; v. 285; p. 592.
Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,375,753; Apr. 26; v. 285; p. 593.
Greenawalt, William E., Denver, Colo. Electrolytic process. No. 1,373,557; Apr. 5; v. 285; p. 35.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,374,445; Apr. 12; v. 285; p. 247.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,374,446; Apr. 12; v. 285; p. 248.
Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,374,447; Apr. 12; v. 285; p. 248.
Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,374,499; Apr. 12; v. 285; p. 258.
Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,374,500; Apr. 12; v. 285; p. 258.
Greenberg, Fred G. (See Scheurer, R. C., and Greenberg.)
Greene, Arthur S., North Milwaukee, Wis. Concrete-mold. No. 1,374,199; Apr. 12; v. 285; p. 200.
Greene, Charles A., New York, N. Y. Sanitary case. No. 1,374,849; Apr. 12; v. 285; p. 325.
Gregory, William F., San Francisco, Calif., assignor of eighty-five per cent. to C. A. Levy, Newark, N. J., five per cent to J. Boegershausen, and ten per cent. to Grace Mosher, San Francisco, Calif. Marking-line. No. 1,373,884; Apr. 5; v. 278; p. 98.
Gregory, William S., assignor of one-third to D. D. Burkhardt, Cincinnati, Ohio. Automatic life and limb saving device for street-cars, automobiles, and other vehicles. No. 1,376,200; Apr. 26; v. 285; p. 678.
Greig, Carlisle N., Chicago, Ill. Advertisement device. No. 1,374,501; Apr. 12; v. 285; p. 258.
Grenier, Henry J., Bridgeport, Conn. Cue-tip holder. No. 1,376,331; Apr. 26; v. 285; p. 704.
Grimditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Making storage-battery plates. No. 1,374,076; Apr. 5; v. 285; p. 135.
Grings, Casper H., Waterloo, Iowa. Motor-vehicle signaling device. No. 1,373,808; Apr. 5; v. 285; p. 83.
Griswold, John W., and H. O. Loebell, Toledo, Ohio. Metallurgical furnace. No. 1,375,754; Apr. 26; v. 285; p. 593.
Grode, Rudolf G., Norwood, R. I. Chain-clasp. No. 1,375,090; Apr. 19; v. 285; p. 434.
Grondahl, Hans H. C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for cutting cords or strands. No. 1,374,200; Apr. 12; v. 285; p. 200.
Gross, John, Carroll, Iowa. Wagon end-gate. No. 1,374,297; Apr. 12; v. 285; p. 218.
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Grover, Albert D., Malden, Mass., assignor, by mesne assignments, to Autosales Corporation. Coin-tester for coin-controlled vending-machines. No. 1,373,422; Apr. 5; v. 285; p. 8.
Grube, George F., Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Drawer-locking device. No. 1,375,249; Apr. 19; v. 285; p. 465.
Grubman, Leo J., assignor to Erie Metal Products Company, Erie, Pa. Clothes-washer. No. 1,374,850; Apr. 12; v. 285; p. 326.
Gruenfeld, Jr., Julius J., Chicago, Ill. Machine for making concrete poles. No. 1,374,730; Apr. 12; v. 285; p. 302.
Gruhl, Irvin W., Los Angeles, Calif. Comedian's suit. No. 1,373,423; Apr. 5; v. 285; p. 8.
Grundmann, Otto, Jersey City, N. J. Swimming device. No. 1,374,077; Apr. 5; v. 285; p. 136.
Grundmann, William, St. Louis, Mo. Patella-splint. No. 1,375,507; Apr. 19; v. 285; p. 514.
Guay, Emery, Spokane, Wash. Saw-set. No. 1,375,147; Apr. 19; v. 285; p. 446.
Guhl, August C., Chicago, Ill. Collapsible can. No. 1,375,384; Apr. 19; v. 285; p. 490.
Guilberson Corporation, The. (See Wilson, Robert A., assignor.)
Guidal, Alfred E., Toronto, Ontario, Canada. Cooking-cabinet. No. 1,375,148; Apr. 19; v. 285; p. 446.

Guillery, René, Paris, France. Testing materials and machines embodying the same. No. 1,375,385; Apr. 19; v. 285; p. 490.
Gullick, Geoffrey M., Highfield, near Wigan, England. Coupling. No. 1,376,332; Apr. 26; v. 285; p. 704.
Gusdorf, Harold M., Indianpolis, Ind. Buffer-check for loom-pickers. No. 1,375,841; Apr. 26; v. 285; p. 609.
Gustafson, Elmer E., Sullivan, Mich. Collapsible funnel. No. 1,373,722; Apr. 5; v. 285; p. 66.
Guth, Edwin F., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lamp-shade. No. 1,374,648; Apr. 12; v. 285; p. 287.
Guthrie, Walter L. (See Copeland, James P., assignor.)
Güttinger, Heinrich, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Apparatus for starting motors, more particularly heat-motors. No. 1,373,558; Apr. 5; v. 285; p. 35.
H-K Toy & Novelty Co., The. (See McDaniel, Walter O., assignor.)
H. M. Manufacturing Company. (See McClintock, Charles N., assignor.)
Haanes, Arnt. (See Casey, W. J., and Haanes.)
Haas, William, Milwaukee, Wis. Ball catcher and thrower. No. 1,375,906; Apr. 26; v. 285; p. 622.
Habib, Vita, and L. Benmayor, Cincinnati, Ohio. Machine for corrugating radiator-plates. No. 1,374,298; Apr. 12; v. 285; p. 210.
Hacking, James T., Pawtucket, R. I. Platen-renewer. No. 1,373,559; Apr. 5; v. 285; p. 36.
Hadaway, William S., Jr., New Rochelle, N. Y. Vapor electric heater. No. 1,373,809; Apr. 5; v. 285; p. 83.
Hadaway, William S., Jr., New Rochelle, N. Y., assignor to The Cutler-Hammer Mfg. Co. Carbureter. No. 1,374,649; Apr. 12; v. 285; p. 287.
Haddad, Constantine M. (See Peters, Shafeh, assignor.)
Hadfield, Robert A., Westminster, England. Cap for armor-piercing projectiles. No. 1,375,452; Apr. 19; v. 285; p. 504.
Hadfield, Robert A., Westminster, England. Manufacture of shovels, spades, and like shoveling or digging devices. No. 1,375,453; Apr. 19; v. 285; p. 504.
Haeger, Paul. (See Haeger, R., Schraner, and Haeger.)
Haeger, Richard, W. Schraner, and P. Haeger, Detroit, Mich. Ice-cream-cutting machine. No. 1,375,842; Apr. 26; v. 285; p. 609.
Hage, Leonell R., Fairfield, Mont. Door-stop. No. 1,374,731; Apr. 12; v. 285; p. 302.
Haggerty, Joseph A., Philadelphia, Pa. Wheel-mounting for motorcycles. No. 1,375,149; Apr. 19; v. 285; p. 446.
Haglund, Gustaf, Falun, Sweden. Separating and refining metals. No. 1,375,631; Apr. 19; v. 285; p. 537.
Haines, Edward P., Philadelphia, Pa., assignor to Patent Appliance Company. Mechanism for operating sectional doors. No. 1,374,502; Apr. 12; v. 285; p. 258.
Haines, Jones & Cadbury. (See Sharp, Joseph W., Jr., assignor.)
Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Feed mechanism. No. 1,375,694; Apr. 26; v. 285; p. 582.
Hale, Robert J., and W. T. Doyle, assignors of 45 per cent. to said Hale, one-tenth to J. A. Wilmore, and F. H. Ryan, and 45 per cent. to C. Doyle, Lexington, Ky. Automobile-lock. No. 1,375,386; Apr. 19; v. 285; p. 491.
Halicki, John, Dunkirk, N. Y. Tree-trimmer. No. 1,375,091; Apr. 19; v. 285; p. 434.
Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,374,562; Apr. 12; v. 285; p. 270.
Hall, Holmes. (See Kelly, J. G., Pringle, and Hall.)
Hall, James D. (See Needham, Edward F., assignor.)
Hall, Jerry L. (See Chamberlin, Guy B., assignor.)
Hall, John A., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Selector. No. 1,374,201; Apr. 12; v. 285; p. 200.
Hall, Richard I. (See Valentine, Rollo H., assignor.)
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Vacuum-pump. No. 1,374,650; Apr. 12; v. 285; p. 287.
Hall, Wesley F. (See Taylor, F. T., and Hall.)
Halladay, Fred G., Appleton, assignor to Safety Truck Brake Co., Waukesha, Wis. Truck-brake. No. 1,375,150; Apr. 19; v. 285; p. 446.
Haller, Herbert L. (See Adams, E. Q., and Haller.)
Haller, Kurth, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pivot-gun. No. 1,373,962; Apr. 5; v. 285; p. 114.
Halseth, Edwin A., *et al.* (See Boe, Edd, assignor.)
Halversen, Hans N., Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill. Sorting-machine. No. 1,375,387; Apr. 19; v. 285; p. 491.
Halvorsen, Birger F., Christiania, Norway. Explosive. No. 1,375,588; Apr. 19; v. 285; p. 529.
Hambuechen, Carl, Belleville, Ill., assignor to National Carbon Company, Inc. Dry cell. No. 1,375,632; Apr. 19; v. 285; p. 538.
Hamilton, Harry D., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail. No. 1,375,633; Apr. 19; v. 285; p. 538.
Hamilton, John F., Minidoka, Idaho. Milk-can cover. No. No. 1,374,732; Apr. 12; v. 285; p. 303.
Hamilton-Low Company, The. (See Davis, Patrick H., assignor.)
Hamilton, Robert J., Browning, Mont. Wreck-preventing apparatus for ships. No. 1,375,151; Apr. 19; v. 285; p. 447.
Hamilton, Rush E., Geyserville, Calif., assignor to Hamilton Tractor Company. Traction wheel. (Reissue.) No. 15,077; Apr. 5; v. 285; p. 153.
Hamilton Tractor Company. (See Hamilton, Rush E., assignor.) (Reissue.)
Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Electrical regenerative control apparatus and system. No. 1,376,015; Apr. 26; v. 285; p. 643.
Hammond, John H., Jr. (See Trenor, Albert D., assignor.)
Hamphill Company. (See Gagné, Augustin, assignor.)
Hand, Jay A. (See Kuhn, F., and Hand.)
Handley, William R., Wichita, Kans. Book-holder. No. 1,376,272; Apr. 26; v. 285; p. 692.
Handly, Frank M., Edinburg, Ind. Valve-lifter. No. 1,373,885; Apr. 5; v. 285; p. 99.
Hanigan, John O., Syracuse, N. Y. Supplemental handle for files. No. 1,375,634; Apr. 19; v. 285; p. 538.
Hanison, Nettie. (See Clouser, H. E., and Thornton, assignors.)
Hanks, Marshall W., Mount Vernon, N. Y., assignor to Hankscraft Company. Oven. No. 1,375,695; Apr. 26; v. 285; p. 589.
Hankscraft Company. (See Hanks, Marshall W., assignor.)
Hanley, James B., Philadelphia, Pa. Resilient vehicle-wheel. No. 1,374,651; Apr. 12; v. 285; p. 288.
Hansell, Earl L., Pittsburgh, Pa. Liquid-mixing machine. No. 1,376,273; Apr. 26; v. 285; p. 692.
Hansen, Clifford O., Tiffin, Ohio. Friction-clutch. No. 1,373,810; Apr. 5; v. 285; p. 84.
Hansen, Frank F., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Electrical-resistance alloy. No. 1,375,454; Apr. 19; v. 285; p. 504.
Hansen, Frank F., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Alloy for electrical resistance. No. 1,375,455; Apr. 19; v. 285; p. 504.
Hansen-Halliburton Mfg. Company. (See Hansen, Frank F., assignor.)
Hansen, Thomas H., South Yarra, near Melbourne, Victoria, assignor of one-half to J. Davey, Murrumbeena, Victoria, Australia. Means for securing and sealing packing-cases and the like. No. 1,374,652; Apr. 12; v. 285; p. 288.
Hanson, Earl C., Washington, D. C. Underground loop-antenna. No. 1,373,612; Apr. 5; v. 285; p. 45.
Hanson, Gustaf W., Wichita, Kans. Earth-boring machine. No. 1,375,092; Apr. 19; v. 285; p. 435.
Hanson, Gustaf W., Wichita, Kans. Drilling-tool. No. 1,375,093; Apr. 19; v. 285; p. 435.
Hanszen, Oscar A., Dallas, Tex. Building-slab. No. 1,375,045; Apr. 19; v. 285; p. 426.
Happ, George, Jr., Port Jervis, N. Y. Dough-divider. No. 1,373,811; Apr. 5; v. 285; p. 84.
Haralson, Waldo, Las Animas, Colo. Door-stop. No. 1,375,388; Apr. 19; v. 285; p. 491.
Hardenbergh, Clarence M., *et al.* (See Miller, William G., assignor.)
Harding, Henry O'B., Minneapolis, Minn. Conveyer device for loading flour into cars. No. 1,373,659; Apr. 5; v. 285; p. 54.
Hardy, Arthur M., Bowmanville, Ontario, Canada. Endless belt, strap, and other like article. No. 1,375,046; Apr. 19; v. 285; p. 426.
Hardy, Leonard G., Salt Lake City, Utah. Plant topper and cultivator. No. 1,373,723; Apr. 5; v. 285; p. 66.
Harley-Davidson Motor Co. (See Ziska, Adam, Jr., assignor.)
Harlow, John B., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Railway signaling system. No. 1,373,503; Apr. 5; v. 285; p. 24.
Harman, George H. (See Whitcomb, R., and Harman.)
Harman, George, T. E. Cannon, and N. C. Bettenburg, St. Paul, Minn. Brake-beam fulcrum. No. 1,374,448; Apr. 12; v. 285; p. 248.
Harrah, Philip J., Bloomfield, Ind. Lifting-jack. No. 1,374,653; Apr. 12; v. 285; p. 288.
Harris, Earl R., Greencastle, Ind. Fuel-feed for internal-combustion engines. No. 1,376,201; Apr. 26; v. 285; p. 678.
Harris, Henry K., Westminster, London, England. Electrical transmitting apparatus. No. 1,374,733; Apr. 12; v. 285; p. 803.
Harris, Henry K., Westminster, London, England. Advertising and other device. No. 1,375,508; Apr. 19; v. 285; p. 514.
Harris, Herbert C., Spokane, Wash. Highway construction. No. 1,375,960; Apr. 26; v. 285; p. 632.
Harris, Irvin H., Evanston, Wyo. Heating unit for washing-machines. No. 1,374,202; Apr. 12; v. 285; p. 200.
Harris, William, Jr., St. Louis, Mo. Side frame for car-trucks. No. 1,374,734; Apr. 12; v. 285; p. 803.
Harrison, Simon H., assignor of one-half to S. W. Hartwell, Easton, Pa. Kiln and firebrick therefor. No. 1,374,203; Apr. 12; v. 285; p. 200.
Harrison, Ward, Cleveland, Ohio, assignor to General Electric Company. Lighting-fixture. No. 1,374,654; Apr. 12; v. 285; p. 288.
Harroun, William L., Ellisburg, N. Y. Flush-valve. No. 1,374,655; Apr. 12; v. 285; p. 288.

Harsel, William B., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Tire-machine. No. 1,374,440; Apr. 12; v. 285; p. 248.

Hart, Gilbert J., New Haven, Conn. Rat-guard. No. 1,376,202; Apr. 26; v. 285; p. 678.

Hart, Herbert G. (See Dottl, J., and Hart.)

Hart, Loren D., Dickens, Iowa. Silo and ensilage-feeding structure. No. 1,375,961; Apr. 26; v. 285; p. 632.

Hartmann, Miner L., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory material. No. 1,376,091; Apr. 26; v. 285; p. 658.

Hartmeyer, August, Los Angeles, Calif. Curtain-rod. No. 1,374,563; Apr. 12; v. 285; p. 270.

Hartwell, S. Warren. (See Harrison, Simon H., assignor.)

Hartwig, William J. (See Cullin, Jasper F., assignor.)

Hartzell, Harry F. (See Hartzell, James H. and H. F., assignors.)

Hartzell, James H. and H. F., Lakeland, Fla. Receptacle-support and advertising-exhibitor. No. 1,373,963; Apr. 5; v. 285; p. 114.

Harvey, Edward M., Eugene, Oreg. Lamp-shade. No. 1,374,735; Apr. 12; v. 285; p. 303.

Harvey, William C., *et al.* (See Brown, William E., assignor.)

Harwood, Leon M., Springfield, Mass. Device for applying metallic leaf. No. 1,373,424; Apr. 5; v. 285; p. 8.

Hasburg, John W., Chicago, Ill. Paint-package. No. 1,375,001; Apr. 19; v. 285; p. 417.

Haskell, Walter F., Westbrook, Me. Warp-dycing machine. No. 1,375,389; Apr. 19; v. 285; p. 491.

Haslam & Stretton Limited. (See Jones, John W., assignor.)

Haslam & Stretton Limited. (See Stretton, Theodore, assignor.)

Hastie, Thomas H. (See Rouch, J. A., and Hastie.)

Hastings, Ralph, Ingraham, Ill. Mud-guard. No. 1,374,917; Apr. 19; v. 285; p. 401.

Hastings, Rolland T. R., Highland Park, assignor to Sanitax Brush Company, Chicago, Ill. Brush and making the same. No. 1,375,755; Apr. 26; v. 285; p. 593.

Hasty, John B., San Bernardino, Calif., assignor to T. Brown, Chicago, Ill. Chuck for staybolt. No. 1,375,456; Apr. 19; v. 285; p. 504.

Hathaway, Chester S., Quincy, assignor to J. A. Locke, Boston, Mass. Paint. No. 1,374,161; Apr. 5; v. 285; p. 151.

Hathaway, Chester S., Quincy, assignor to J. A. Locke, Boston, Mass. Making fireproofing material and heat and cold retaining coverings and product thereof. No. 1,374,885; Apr. 12; v. 285; p. 332.

Hatley, Bird, Everson, Wash. Wood-saw. No. 1,374,736; Apr. 12; v. 285; p. 303.

Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)

Hawkins, Jackson D. (See Schramm, H. A., and Hawkins.)

Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Roofing-sheet. No. 1,374,299; Apr. 12; v. 285; p. 219.

Hayes, Paul C. (See Lindquist, Carl J., assignor.)

Hays, Elijah F., and C. E. Garrison, Mount Vernon, Ill. Crank-shaft grinder. No. 1,376,274; Apr. 26; v. 285; p. 693.

Haselett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Storage-battery terminal. No. 1,376,143; Apr. 26; v. 285; p. 668.

Haselett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Storage-battery terminal post. No. 1,376,144; Apr. 26; v. 285; p. 668.

Heafner, Everett E., Lincolnton, N. C. Stop-motion for twister-frames. No. 1,375,290; Apr. 19; v. 285; p. 473.

Heath, Clarence F., Washington, D. C. Letter carrier's desk. No. 1,376,333; Apr. 26; v. 285; p. 704.

Heath, Frank, National City, Calif. Sardine-turning apparatus. No. 1,373,812; Apr. 5; v. 285; p. 84.

Heath, Spencer, Baltimore, Md. Apparatus for machining propeller-blades. No. 1,373,813; Apr. 5; v. 285; p. 84.

Heanue, Martin A., *et al.* (See Wrozina, Ignatius, assignor.)

Heany, John A., New York, N. Y., assignor, by mesne assignments, to Rockbestos Products Corporation. Wire-covering machine. No. 1,375,655; Apr. 19; v. 285; p. 542.

Heaphy, Archibald C., New York, N. Y. Wardrobe attachment for chairs. No. 1,375,047; Apr. 19; v. 285; p. 426.

Heatlie, William C., Beverly, Mass. Envelop-grip and pen or pencil rack. No. 1,375,509; Apr. 19; v. 285; p. 514.

Hebern, Edward H., Oakland, Calif. Direction-signaling device. No. 1,374,450; Apr. 12; v. 285; p. 249.

Hedges, Samuel, Los Angeles, Calif. Flooring. No. 1,374,082; Apr. 5; v. 285; p. 136.

Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Indicator. No. 1,375,962; Apr. 26; v. 285; p. 633.

Hefti, Wilhelm, Wülflingen, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Cylinder-head. No. 1,374,079; Apr. 5; v. 285; p. 136.

Heginger, Marie A., New York, N. Y. Food product. No. 1,376,334; Apr. 26; v. 285; p. 704.

Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Forging or casting with gripping and driving lugs. No. 1,373,724; Apr. 5; v. 285; p. 66.

Heiby, Carl G., C. A. Hill, and D. E. Lindquist, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Method of and die for producing forgings. No. 1,373,726; Apr. 5; v. 285; p. 67.

Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Producing forgings. No. 1,373,725; Apr. 5; v. 285; p. 66.

Heider, Henry J., Carroll, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill. Tractor-plow. No. 1,373,613; Apr. 5; v. 285; p. 45.

Heider, Henry J., Carroll, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill. Tractor-plow. No. 1,375,457; Apr. 19; v. 285; p. 504.

Heil, Edwin, Wichita, Kans. Current-density indicator. No. 1,374,918; Apr. 19; v. 285; p. 401.

Hellems, Leonard M., and G. C. Shafer, McClungs, W. Va. Self-supporting sled-tongue. No. 1,374,148; Apr. 5; v. 285; p. 149.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Recuperative system for alternating-current commutator-motors. No. 1,374,504; Apr. 12; v. 285; p. 270.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current commutator-motor. No. 1,374,565; Apr. 12; v. 285; p. 271.

Hellweg, Henry, Milwaukee, Wis. Automatic valve. No. 1,375,606; Apr. 26; v. 285; p. 583.

Helsabeck, Theodore L., Brandford, Fla. Propeller. No. 1,375,907; Apr. 26; v. 285; p. 622.

Hemington, Edward J., Lakewood, Ohio. Child's vehicle. No. 1,373,814; Apr. 5; v. 285; p. 84.

Henderson, Morris O., Story City, Iowa. Hitch for harvesting machinery. No. 1,375,963; Apr. 26; v. 285; p. 633.

Hendry, William, Tacoma, Wash. Seaman's net-needle. No. 1,374,503; Apr. 12; v. 285; p. 259.

Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,374,566; Apr. 12; v. 285; p. 271.

Henkle, Willis R., Lima, Ohio. Foldable clothesbrush. No. 1,374,010; Apr. 5; v. 285; p. 123.

Hennebaul, Otto J., New York, N. Y. Bicycle. No. 1,374,078; Apr. 5; v. 285; p. 136.

Henry Motor Service Company. (See Patterson, William L., assignor.)

Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Cake-forming and cage-loading mechanism for oil-presses. No. 1,376,275; Apr. 26; v. 285; p. 693.

Henry, René A., Paris, France. Tent or the like. No. 1,374,300; Apr. 12; v. 285; p. 219.

Hentschel, Paul J., Baltimore, Md. Cigar-perforator. No. 1,376,335; Apr. 26; v. 285; p. 705.

Heppes, Otto A., Chicago, Ill. Waterproof covering and making same. No. 1,376,092; Apr. 26; v. 285; p. 658.

Herick, John, Kansas City, Mo. Rule-holder. No. 1,374,373; Apr. 12; v. 285; p. 233.

Hermann, Joseph. (See Wicker, Adelbert R., assignor.)

Hermes, Benjamin P., New York, N. Y. Heat-regulating system. No. 1,375,458; Apr. 19; v. 285; p. 505.

Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Stoker control. No. 1,375,250; Apr. 19; v. 285; p. 465.

Hescock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry & Machine Company. Conveyer-system control. No. 1,375,908; Apr. 26; v. 285; p. 622.

Hesse, Emil C., Chicago, Ill. Velocipede. No. 1,375,459; Apr. 19; v. 285; p. 505.

Heydon, Edward, Indianapolis, Ind. Trolley-wire hanger. No. 1,375,152; Apr. 19; v. 285; p. 447.

Heyman, Isaac I., Irvington, N. J. Clothespin-container. No. 1,374,451; Apr. 12; v. 285; p. 249.

Heys, William E. (See Macpherson, R., and Heys.)

Hibbs, Hattie L., Princeville, Ill. Skirt-marker. No. 1,373,614; Apr. 5; v. 285; p. 45.

Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

Hiebert, Jacob P., assignor to Hillsboro Shocker and Machine Co., Hillsboro, Kans. Grain-sheaf shocker. No. 1,373,727; Apr. 5; v. 285; p. 67.

Higgins, Henry B., Jr., Denver, Colo. Attachment for internal-combustion engines. No. 1,376,276; Apr. 26; v. 285; p. 693.

Higgins, Henry B., Jr., Denver, Colo. Attachment for internal-combustion engines. No. 1,376,277; Apr. 26; v. 285; p. 693.

High, Ralph B. (See Crosby, P. A., Matthews, and High.)

Hill, Charles A. (See Heiby, C. G., Hill, and Lindquist.)

Hill, Charles H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,374,656; Apr. 12; v. 285; p. 289.

Hill, George C., and F. Cooper, Seattle, Wash. Machine for grinding valves. No. 1,374,504; Apr. 12; v. 285; p. 259.

Hill, George H., deceased, Schenectady, N. Y., by General Electric Company, assignee. Regenerative braking. (Reissue.) No. 15,004; Apr. 26; v. 285; p. 715.

Hiller, Stanley, San Francisco, Calif. Separating fruit-pits and their kernels. No. 1,374,657; Apr. 12; v. 285; p. 289.

Hillman, Ernest C., Los Angeles, Calif. Rain and sun shield. No. 1,374,919; Apr. 19; v. 285; p. 401.

Hillsboro Shocker and Machine Co. (See Hiebert, Jacob P., assignor.)

Hilton, Roland C., assignor to Reece-Hilton, Inc., Troy, N. Y. Tire-pump. No. 1,375,843; Apr. 26; v. 285; p. 610.

Himes, Leslie R. (See Himes, Walter P., assignor.)

Himes, Walter P., assignor of one-half to L. R. Himes, New Bethlehem, Pa. Showcase. No. 1,376,203; Apr. 26; v. 285; p. 679.

Hinckley, Percy P., Meriden, Conn., assignor to Foster, Merriam & Company. Piston-ring. No. 1,375,095; Apr. 19; v. 285; p. 436.

Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,374,567; Apr. 12; v. 285; p. 271.

Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Convertible ballast-car. No. 1,374,568; Apr. 12; v. 285; p. 271.

Hineline, Edson S., Apponaug, assignor to Bodell & Co., Providence, R. I. Stop-motion for knitting-machines. No. 1,375,218; Apr. 19; v. 285; p. 459.

Hiniker, Benjamin F., Taft, Calif. Locked-carriage pipe-spider. No. 1,375,964; Apr. 26; v. 285; p. 633.

Hirschenfeld, Joseph, Oak Park, Ill. Horseshoe. No. 1,375,096; Apr. 19; v. 285; p. 436.

Hirst, William F. (See DeCew, C. A., and Hirst.)

Hirt, Jules H., El Paso, Tex., assignor to Alvarado Mining and Milling Company, New York, N. Y. Treatment of ores. No. 1,375,002; Apr. 19; v. 285; p. 417.

Hirt, Louis J., Yonkers, N. Y. Compensating bearing. No. 1,375,697; Apr. 26; v. 285; p. 583.

Hirth, Carl A., Stuttgart, Germany. Nail-brush. No. 1,374,851; Apr. 12; v. 285; p. 326.

Hitchcock, Amos L., Carrabelle, Fla. Trolley-wheel guard. No. 1,376,204; Apr. 26; v. 285; p. 679.

Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,373,504; Apr. 5; v. 285; p. 25.

Hitner, Harry F., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Device for severing glass. No. 1,373,728; Apr. 5; v. 285; p. 67.

Hoadley, Charles A., Louisville, Ky. Amusement device. No. 1,373,425; Apr. 5; v. 285; p. 9.

Hobbs, Elbert R., Castleford, Idaho. Self-cleaning type. No. 1,375,153; Apr. 19; v. 285; p. 447.

Hoe, R., and Co. (See Tornberg, Isidor, assignor.)

Hoegenauer, Haver. (Schwab, B., Schneider, and Hoegenauer.)

Hoehn, Alfred J., New York, N. Y. Clothespin. No. 1,373,729; Apr. 5; v. 285; p. 67.

Hoey, Samuel C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lamp fixture. No. 1,374,569; Apr. 12; v. 285; p. 271.

Hoffman, Roscoe C., Indianapolis, Ind. Disk vehicle-wheel. No. 1,376,205; Apr. 26; v. 285; p. 679.

Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Electric fan. No. 1,374,658; Apr. 12; v. 285; p. 289.

Hokanson, Charles, assignor of one-third to E. Hokanson and one-third to E. Koeppe, Crookston, Minn. Lock snap-hook. No. 1,376,278; Apr. 26; v. 285; p. 693.

Hokanson, Emanuel, *et al.* (See Hokanson, Charles, assignor.)

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Key-lever tension device. No. 1,375,789; Apr. 26; v. 285; p. 599.

Holder, Henry A., Lynn, Mass. Machine for treating hides, skins, and leather. No. 1,373,426; Apr. 5; v. 285; p. 9.

Holeproof Hosiery Co. (See Evans, Humphrey, assignor.)

Holifield, Joseph A., Mobile, Ala. Electric-current generator for arc-circuits. No. 1,374,080; Apr. 5; v. 285; p. 136.

Holland, James J., Philadelphia, Pa. Valvular coupling. No. 1,373,505; Apr. 5; v. 285; p. 25.

Holland, William A., London, Ohio. Fencepost. No. 1,373,560; Apr. 5; v. 285; p. 35.

Hollins, Frederick E., Somerville, Mass. Knockdown burial-casket. No. 1,373,730; Apr. 5; v. 285; p. 67.

Holly, Charles, Weimar, Tex. Digging-machine. No. 1,373,815; Apr. 5; v. 285; p. 85.

Holmes, Arthur, Canton, Ohio. Manifold. No. 1,375,909; Apr. 26; v. 285; p. 623.

Holmes, Arthur, assignor to The Holmes Automobile Company, Canton, Ohio. Manifold. No. 1,375,910; Apr. 26; v. 285; p. 623.

Holmes Automobile Company, The. (See Holmes, Arthur, assignor.)

Holmes, David R., and N. H. Campbell, Hutchinson, Kans. Windmill. No. 1,374,659; Apr. 12; v. 285; p. 289.

Holmes, Ernest H., Point Pleasant, W. Va. Steam-engine valve. No. 1,376,093; Apr. 26; v. 285; p. 658.

Holmes, George A., Newton Center, assignor to F. Joy, Winchester, Mass. Turnbutton-fastener. No. 1,375,756; Apr. 26; v. 285; p. 593.

Holmes, George A., Newton Center, assignor to F. Joy, Winchester, Mass. Snap-fastener. No. 1,376,389; Apr. 26; v. 285; p. 714.

Holmquist, John A., Woodlawn, Pa. Reel. No. 1,375,844; Apr. 26; v. 285; p. 610.

Holt, Isabel de A. (See Fisher, R. J. D., and Holt.)

Holtorp, Wilhelm, Hamburg, Germany. Means for lubricating bearings. No. 1,376,094; Apr. 26; v. 285; p. 658.

Home-Crest Mills Corporation. (See Stairs, James H., assignor.)

Hoodwin, Joseph W., Chicago, Ill. Sales device. No. 1,374,660; Apr. 12; v. 285; p. 289.

Hook, Henry C., assignor, by mesne assignments, to Norton Company, Worcester, Mass. Second-operation chuck. No. 1,374,083; Apr. 5; v. 285; p. 137.

Hopkins, Peter J. (See La Mar, F. C., and Hopkins.)

Hopkinson, Ernest, New York, N. Y. Making motor-vehicle tires. No. 1,374,505; Apr. 12; v. 285; p. 259.

Hopping, Charles O., Long Beach, Calif. Making puncture-closing composition. No. 1,375,510; Apr. 19; v. 285; p. 515.

Hopson, Arthur A., Tiptonville, Tenn. Backband-hook. No. 1,375,911; Apr. 26; v. 285; p. 623.

Horan, Charles, New York, N. Y. Head-protector. No. 1,375,845; Apr. 26; v. 285; p. 610.

Horine, Merrill C., assignor to International Motor Company, New York, N. Y. Cushioned seat. No. 1,376,382; Apr. 26; v. 285; p. 714.

Hornsey, John W., Summit, N. J. Extracting valuable components from raw materials. No. 1,373,731; Apr. 5; v. 285; p. 68.

Horowitz, Barnett, Brooklyn, N. Y. Hat-lining. No. 1,374,737; Apr. 12; v. 285; p. 304.

Horton, Frederick H., Birmingham, England. Brooch. No. 1,375,097; Apr. 19; v. 285; p. 436.

Horwitz, Alexander, New York, N. Y. Sulfonated resin and making the same. No. 1,373,886; Apr. 5; v. 285; p. 99.

Hosack, Harold H., Twickenham, England. Appliance for casting metal ingots into molds. No. 1,375,589; Apr. 19; v. 285; p. 529.

Hoschke, Frederick A., Springfield, Mass. Reproducing instrument and associated mechanism. No. 1,373,732; Apr. 5; v. 285; p. 68.

Hotchkiss, Erastus L., Edinboro, Pa. Extricator-tire for automobiles. No. 1,374,920; Apr. 19; v. 285; p. 401.

Hough, Ruth F., Sierra Madre, Calif. Bonnet. No. 1,375,048; Apr. 19; v. 285; p. 427.

Houser, Orville E., Chillicothe, Ohio. Riveting-machine. No. 1,373,427; Apr. 5; v. 285; p. 9.

Houston, James D., East Aurora, N. Y. Mechanically-waved flag. No. 1,374,921; Apr. 19; v. 285; p. 401.

Howard, Charles O., assignor to The Phelps Manufacturing Company, Columbus, Ohio. Locking means for automobile-wheels. No. 1,376,336; Apr. 26; v. 285; p. 705.

Howard, Clarence J., Manton, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Speed-changing mechanism for metal-working machines. No. 1,373,816; Apr. 5; v. 285; p. 85.

Howard, Frank W., New York, N. Y. Raincoat. No. 1,374,301; Apr. 12; v. 285; p. 219.

Howard, Frank W., New York, and G. B. Cannon, Jr., Brooklyn, N. Y. Combined hat protector and envelop. No. 1,375,511; Apr. 19; v. 285; p. 515.

Howard, John H., Colfax, Wash. Safety tug-hook. No. 1,376,145; Apr. 26; v. 285; p. 668.

Howard, Michael J., Hartford, Conn. Ornamenting sheet-glass. No. 1,375,251; Apr. 19; v. 285; p. 465.

Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Gas-discharge conduit for rotary converters. No. 1,375,965; Apr. 26; v. 285; p. 633.

Howe, Andrew F., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill. Safety-guard for swing-saws. No. 1,375,698; Apr. 26; v. 285; p. 583.

Howe, Charles W., Dayton, and J. L. Garver, Hamilton, Ohio. Scarifying and grading device for tractors. No. 1,373,561; Apr. 5; v. 285; p. 36.

Howe Comb Company, The. (See Shepard, Seth W., assignor.)

Howe, Harry, Stoughton, Wis. Shock-absorbing means for vehicles. No. 1,375,512; Apr. 19; v. 285; p. 515.

Howe, Mortimer A., assignor to Pioneer Bindery and Printing Company, Tacoma, Wash. Bank-check, record-book, and binder. No. 1,376,095; Apr. 26; v. 285; p. 659.

Howe Safety Appliance Company. (See George, Leon W., assignor.)

Howe Safety Appliance Company. (See Howe, Andrew F., assignor.)

Howell, Claude F., Chicago, Ill., assignor, by mesne assignments, to Continental Machinery Co., a Corporation of Delaware. Freezer. No. 1,376,016; Apr. 26; v. 285; p. 643.

Howell, William S., *et al.* (See Comstock, Francis M., assignor.)

Hoyt, Jesse D., Los Angeles, Calif. Table dish-washing device. No. 1,373,506; Apr. 5; v. 285; p. 25.

Hubbell-Fuller Battery Company. (See Hubbell, Harry C., assignor.)

Hubbell, Harry C., Irvington, N. J., assignor to Hubbell-Fuller Battery Company. Storage-battery electrode and making same. No. 1,373,733; Apr. 5; v. 285; p. 68.

Hubbell, Harry C., Irvington, N. J., assignor to Hubbell-Fuller Battery Company. Storage-battery electrode and making same. No. 1,373,734; Apr. 5; v. 285; p. 68.

Hubbert, Francis A., Seattle, Wash. Back for bed-davenports. No. 1,374,661; Apr. 12; v. 285; p. 290.

Hubble, Joe H., assignor to G. McCann and R. L. Ragon, Tekoa, Wash. Device for use in the application of piston-rings to pistons. No. 1,375,291; Apr. 19; v. 285; p. 473.

Hucle, James B., assignor of one-fourth to R. H. Ross, Columbus, Ohio. Garment-supporter. No. 1,374,204; Apr. 12; v. 285; p. 201.

Huddle, John T., Washington, D. C. Combination duplicate or single cane or stick. No. 1,375,912; Apr. 26; v. 285; p. 623.

Hudry, John, Hazleton, Pa. Runner attachment for children's vehicles. No. 1,374,011; Apr. 5; v. 285; p. 123.

Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,374,922; Apr. 19; v. 285; p. 402.

Huelves, Claudio G., Santa Clara, Cuba. Machine for picking and cutting cane-straw and plowing under the same. No. 1,374,149; Apr. 5; v. 285; p. 149.

Huestis, George J., Belleville, Ontario, Canada. Draft appliance for locomotives. No. 1,373,735; Apr. 5; v. 285; p. 68.

Huetter, Andrew, assignor to The Allsteel Ridewell Tire and Rubber Company, Dayton, Ohio. Air-bag for vehicle-tires. No. 1,374,570; Apr. 12; v. 285; p. 272.

Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,375,252; Apr. 19; v. 285; p. 465.

Hughes, John T., Wakenda, Mo. Corn-picker. No. 1,373,428; Apr. 5; v. 285; p. 9.

Hughes Tool Company. (See Humason, Granville A., assignor.)

Hullings, George F. (See Fink, William B., assignor.)

Humason, Granville A., assignor to Hughes Tool Company, Houston, Tex. Reamer. No. 1,375,094; Apr. 19; v. 285; p. 435.

Humason, Granville A., assignor of one-half to W. E. Langley, Houston, Tex. Pump. (Reissue.) No. 15,095; Apr. 26; v. 285; p. 715.

Hummel, Charles F., Roselle Park, N. J. High-pressure valve. No. 1,374,571; Apr. 12; v. 285; p. 272.

Humphrey, Alfred H., New York, N. Y. Finishing metal surfaces. No. 1,373,430; Apr. 5; v. 285; p. 9.

Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-heater. No. 1,373,429; Apr. 5; v. 285; p. 9.

Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-stove. No. 1,373,562; Apr. 5; v. 285; p. 36.

Humphrey, David, Cleveland, Ohio. Apparatus for bottling carbonated liquids. No. 1,373,817; Apr. 5; v. 285; p. 85.

Humphrey, David L., and C. L. Pittman, Avoca, Tex. Reagent for liquid-battery cells. No. 1,375,513; Apr. 19; v. 285; p. 515.

Hunt, C. W., Company. (See Pettit, Charles A., assignor.)

Hunt, David, assignor of one-half to J. T. Boyle, Houston, Tex. Pump. No. 1,374,923; Apr. 19; v. 285; p. 402.

Hunt, Herbert E., Philadelphia, Pa. Storage-battery container. No. 1,374,506; Apr. 12; v. 285; p. 259.

Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,374,205; Apr. 12; v. 285; p. 201.

Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Locking device for ignition systems. No. 1,375,757; Apr. 26; v. 285; p. 593.

Hunter Gas Engine and Development Company. (See Hunter, William J., assignor.)

Hunter, William J., Denver Colo., assignor to The Hunter Gas Engine and Development Company. Engine. No. 1,375,514; Apr. 19; v. 285; p. 515.

Huntoon, William C., Providence R. I. Extruding collapsible tubes. No. 1,376,373; Apr. 26; v. 285; p. 711.

Huntoon, William C., Providence, R. I. Drawing collapsible tubes. No. 1,376,374; Apr. 26; v. 285; p. 711.

Huntoon, William C., Providence, R. I. Collapsible tube. No. 1,376,375; Apr. 26; v. 285; p. 711.

Huntoon, William C., Providence, R. I. Extruding collapsible tubes. No. 1,376,376; Apr. 26; v. 285; p. 712.

Hurd, Nettie M., Chicago, Ill. Hose-supporter. No. 1,374,572; Apr. 12; v. 285; p. 272.

Huributt, Earl W., Lima, Ohio. Bag-holder. No. 1,375,590; Apr. 19; v. 285; p. 529.

Hurst, Hugh F., Richmond, Va. Label printing or stamping machine. No. 1,374,374; Apr. 12; v. 285; p. 233.

Hussman, George J., St. Louis, Mo. Composition for masking the acrid taste of Epsom salt. No. 1,375,154; Apr. 19; v. 285; p. 447.

Hutchins Car Roofing Company. (See Hawksworth, David W., assignor.)

Hutchins, Carl B., Algona, Iowa. Disk-sharpener. No. 1,374,012; Apr. 5; v. 285; p. 123.

Hutchinson, John, Toronto, Ontario, Canada. Stand for bicycles. No. 1,374,452; Apr. 12; v. 285; p. 249.

Hussa, Theodore F., Montclair, N. J. Singeing apparatus. No. 1,374,375; Apr. 12; v. 285; p. 233.

Hussa, Theodore F., Montclair, N. J. Singeing threads. No. 1,374,376; Apr. 12; v. 285; p. 234.

Hutsell Motor Company, The. (See Hutsell, Thomas A., assignor.)

Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Engine construction. No. 1,375,049; Apr. 19; v. 285; p. 427.

Hutter, Franz, New York, N. Y., assignor to The McCall Company. Pattern-envelop. No. 1,375,292; Apr. 19; v. 285; p. 473.

Huxley, Maurice F., Hendon, London, England. Aerofoil. No. 1,376,337; Apr. 26; v. 285; p. 705.

Hyde, Frank, Sioux Falls, S. D. Fastening device. No. 1,373,507; Apr. 5; v. 285; p. 25.

Hydro-Hoist Company. (See Smight, Frank B., assignor.)

Hynes, Dibrell P., Chicago, Ill., assignor to Roseberry Surprise Mining Co., Ltd., Sandon, British Columbia, Canada. Filtration. No. 1,373,887; Apr. 5; v. 285; p. 99.

Hysom, Cornelius B., Santa Cruz, Calif. Fruit gager and gatherer. No. 1,376,338; Apr. 26; v. 285; p. 705.

Iconochrome Company of America. (See John, Robert, assignor.)

Igo, Joseph H., Chicago, Heights, Ill. Jacking attachment for motor-vehicles. No. 1,375,515; Apr. 19; v. 285; p. 515.

Ilg, Max J., Nuremberg, Germany, assignor to Siemens-Schuckert Werke G. M. B. H. Siemensstadt, near Berlin, Germany. Wedge or key for slotted dynamo-electric-machine elements. No. 1,375,699; Apr. 26; v. 285; p. 583.

Illich, Amson G., New York, N. Y. Attachment-hook for safety-belts. No. 1,374,738; Apr. 12; v. 285; p. 304.

Illig, Teinrich, Frankfort-on-the-Main, Germany. Screen. No. 1,375,659; Apr. 19; v. 285; p. 543.

Illinois Watch Case Company. (See Wittman, Edward J., assignor.)

Imhoff, August M., Berne, assignor to Imhoff Motor Co., A. G., Interlaken, Switzerland. Two-stroke internal-combustion engine. No. 1,374,573; Apr. 12; v. 285; p. 272.

Imhoff Motor Co., A. G. (See Imhoff, August M., assignor.)

Indera Mills, The. (See Siewers, Walter L., assignor.)

India Rubber Company. (See Weida, Harry, assignor.)

Indiana Lamp Company. (See Foster, Harry C., assignor.)

Industrial Controller Company. (See Magin, Francis W., assignor.)

Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)

Industrial Products Company (See Shipman, Emanuel F., assignor.)

Ingels, James, Springfield, Ill. Pedal-pin. No. 1,375,003; Apr. 19; v. 285; p. 417.

Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,375,293; Apr. 19; v. 285; p. 474.

Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)

Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)

Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)

Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)

Ingersoll-Rand Company. (See Wilhelm, Russell H., assignor.)

Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)

Ingoldsby, Frank S., Pasadena, Calif., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio. Dump-car. No. 1,375,700; Apr. 26; v. 285; p. 583.

Ingram, Alfred and H., Brooklyn, N. Y. Jar and other receptacle. No. 1,375,004; Apr. 19; v. 285; p. 417.

Ingram, Harry. (See Ingram, Alfred and H.)

Ingram, Joseph A., East Orange, N. J. Piston-ring. No. 1,374,852; Apr. 12; v. 285; p. 326.

Ingram, Joseph D., Amarillo, Tex. Tractor. No. 1,375,790; Apr. 26; v. 285; p. 599.

Ingram, Sleeper T., assignor of thirty per cent. to J. E. Newell, St. Louis, Mo. Tractor rotary plow. No. 1,374,739; Apr. 12; v. 285; p. 304.

Inshaw, George R., Pollockshields, near Glasgow, Scotland. Valvular arrangement of internal-combustion engines. No. 1,374,158; Apr. 5; v. 285; p. 151.

International Cork Company. (See Marsa, Melchor, assignor.)

International Dry Milk Company. (See Dick, Samuel M., assignor.)

International Earth Boring Machine Corporation. (See Moore, William E., assignor.)

International Harvester Company. (See Charles, Edward S., assignor.)

International Harvester Company. (See Dennis, Samuel K., assignor.)

International Motor Company. (See De La Monte, Casclous H., assignor.)

International Motor Company. (See Frins, Maximilian C., assignor.)

International Motor Company. (See Horine, Merrill C., assignor.)

International Motor Company. (See Mullbach, Herman C., assignor.)

International Patent Licensing Corporation. (See Peters, William A., assignor.)

International Tag Co. (See Seaton, Strowbridge B., assignor.)

Iowa Gate Company. (See Stevenson, Charles M., assignor.)

Ireland, Charles L., Fort McPherson, Ga. Electrotherapeutic apparatus. No. 1,373,818; Apr. 5; v. 285; p. 85.

Irwin, William J., Wilkinsburg, Pa. Nozzle control for turbines. (Reissue.) No. 15,084; Apr. 12; v. 285; p. 335.

Isler, John J., Kipling, Mich. Air-spring. No. 1,376,206; Apr. 26; v. 285; p. 679.

Isles, Andrew. (See Miller, J. C., and Isles.)

Iverson, Aaron E., Chatsworth, Calif. Irrigation system. No. 1,373,660; Apr. 5; v. 285; p. 54.

J. J. Disc-Wheel Corporation, The. (See Johnston, John O., assignor.)

Jackson, Alfred A., Denver, Colo. Spark-plug intensifier. No. 1,375,253; Apr. 19; v. 285; p. 465.

Jackson, Perry, Los Angeles, Calif. Luggage-carrier. No. 1,374,013; Apr. 5; v. 285; p. 124.

Jacob, Emil H., Chicago, Ill. Anti-window-rattler. No. 1,374,206; Apr. 12; v. 285; p. 201.

Jacobs, Charles B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of compounds by gas reactions and apparatus therefor. No. 1,376,207; Apr. 26; v. 285; p. 680.

Jacobs, Charles F., Chicago, Ill. Circuit-continuing heating-receptacle. No. 1,373,615; Apr. 5; v. 285; p. 46.

Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch. No. 1,375,155; Apr. 19; v. 285; p. 447.

Jacobs, George A. (See Johnson, C. J., and Jacobs.)

Jacobs, Harry, Lordsburg, N. Mex. Metallic railway-tie. No. 1,376,279; Apr. 26; v. 285; p. 694.

Jacobson, Axel E., Minneapolis, Minn. Grinding-mill. No. 1,374,207; Apr. 12; v. 285; p. 201.

Jaeger, Julius T., Iroquois Falls, Ontario, Canada. Centrifugal pulp-thickener. No. 1,374,377; Apr. 12; v. 285; p. 234.

Jagerspacher, Carl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing on mordants. No. 1,375,701; Apr. 26; v. 285; p. 584.

Jahnke, Otto H., and F. L. Orr, Denver, Colo. Waterhoist. No. 1,373,736; Apr. 5; v. 285; p. 68.

Jakobsson, Karl A., Stockholm, Sweden, assignor to W. Farre, Christiania, Norway. Accordion. No. 1,375,156; Apr. 19; v. 285; p. 447.

Jakubowski, Lucian, Dexter, N. Y. Bird-trap. No. 1,374,014; Apr. 5; v. 285; p. 124.

James, Arthur J. (See Davenport, A. L., and James.)

James, Charles C., New York, and G. C. James, Yonkers, N. Y. Display apparatus. No. 1,375,005; Apr. 19; v. 285; p. 417.

James, George C. (See James, Charles C., and G. C.)

James, George F., and I. E. Smith, New York, N. Y. Attachment for stoves. No. 1,373,737; Apr. 5; v. 285; p. 69.

James, Thomas J., assignor to T. Thompson, Philadelphia, Pa. Armrest. No. 1,376,280; Apr. 26; v. 285; p. 694.

Jamison, Richard H. (See Stotler, F. W., and Jamison.)

Jarvis, Levi, Cedar Rapids, Nebr. Hoe. No. 1,374,740; Apr. 12; v. 285; p. 304.

Jaszewski, Maryan A., Bethlehem, Pa. Automobile-signal. No. 1,373,738; Apr. 5; v. 285; p. 69.

Jeffers, Jesse, Uxbridge, assignor to Whitin Machine Works, Whitinsville, Mass. Builder-motion. No. 1,373,508; Apr. 5; v. 285; p. 25.

Jefferson, Benjamin H., assignor to Lyon & Healy, Chicago, Ill. Pedal device. No. 1,374,892; Apr. 12; v. 285; p. 334.

Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Pedal device for pianos and other purposes. No. 1,374,890; Apr. 12; v. 285; p. 333.

Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Pedal device for pianos and other purposes. No. 1,374,891; Apr. 12; v. 285; p. 333.

Jeffrey Manufacturing Company, The. (See Kienzle, Charles J., assignor.)

Jeffrey Manufacturing Company. (See Levin, Nils D., assignor.)

Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)

Jenkins, Charles D., Boston, Mass. Machine for making briquets. No. 1,376,096; Apr. 26; v. 285; p. 659.

Jenkins, Jay, Beaumont, Calif. Oil-burner. No. 1,375,294; Apr. 19; v. 285; p. 474.

Jenne, Christian J., San Francisco, Calif. Electric-alarm system. No. 1,375,516; Apr. 19; v. 285; p. 516.

Jennett, Robert, Chester, Pa. Change-gear. No. 1,375,846; Apr. 26; v. 285; p. 610.

Jennings, Victor H., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven pocketed carrier. No. 1,373,739; Apr. 5; v. 285; p. 69.

Jensen-Befrlundd, Hans P., Lisbon, Portugal. Torpedo. No. 1,375,157; Apr. 19; v. 285; p. 447.

Jensen, Charles J., North Plainfield, N. J. Protected valve. No. 1,374,741; Apr. 12; v. 285; p. 304.

Jensen, George C., Oakland, Calif. Shifter-lock mechanism. No. 1,373,819; Apr. 5; v. 285; p. 86.

Jensen, Ole P., and A. P. Andersen, Copenhagen, Denmark. Homogenizer for cream and other liquids. No. 1,374,742; Apr. 12; v. 285; p. 305.

Jensen, Soren, Los Angeles, Calif. Pencil-sharpener. No. 1,375,295; Apr. 19; v. 285; p. 474.

Jerruss, Joseph, and A. F. Fregly, Patton, Pa. Safety lock-bolt. No. 1,374,015; Apr. 5; v. 285; p. 124.

Jespersen, Jens, Des Moines, Iowa. Timer-cover device. No. 1,375,390; Apr. 19; v. 285; p. 491.

Jessen, Thomas P., Newark, N. J. Toy. No. 1,376,281; Apr. 26; v. 285; p. 694.

Joerger, Frank, Brooklyn, N. Y. Paintbrush ferrule and making the same. No. 1,375,847; Apr. 26; v. 285; p. 610.

Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Tank for electric apparatus. No. 1,374,662; Apr. 12; v. 285; p. 290.

Johansen, Ernst M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Emulsion and producing it. No. 1,373,661; Apr. 5; v. 285; p. 54.

John, Robert, New York, N. Y., assignor to Iconochrome Company of America, Inc. Photographic reproduction. No. 1,374,853; Apr. 12; v. 285; p. 326.

Johnsen, John, New Brighton, N. Y. Combined jack and clamp. No. 1,376,017; Apr. 26; v. 285; p. 644.

Johnson, Aaron. (See Clark, Robert G., assignor.)

Johnson, Charles A., Clark Fork, Idaho. Saw-set. No. 1,374,743; Apr. 12; v. 285; p. 305.

Johnson, Charles H. and W., Jersey City, N. J. Duplex boiler-gage. No. 1,374,081; Apr. 5; v. 285; p. 136.

Johnson, Charles J., Bloomfield, assignor of one-half to G. A. Johnson, Newark, N. J. Automatic trailer-coupling mechanism. No. 1,373,431; Apr. 5; v. 285; p. 10.

Johnson, Chester F., Detroit, Mich. Carbureter. No. 1,375,006; Apr. 19; v. 285; p. 418.

Johnson, Claes J. and G. A., Chicago, Ill. Hinge. No. 1,375,635; Apr. 19; v. 285; p. 538.

Johnson, Erik, Chicago, Ill. Traveling lawn-sprinkler. No. 1,375,296; Apr. 19; v. 285; p. 474.

Johnson, George L. N., assignor to C. P. Rood, Watsonville, Calif. Gas generator and burner. No. 1,373,616; Apr. 5; v. 285; p. 46.

Johnson, George S., Brainerd, Minn. Suction-box for paper-making machines. No. 1,375,517; Apr. 19; v. 285; p. 516.

Johnson, Gustav A. (See Johnson, Charles J., assignor.)

Johnson, Howard A., and F. T. Etheredge, Norfolk, Va. Door-operating mechanism. No. 1,375,219; Apr. 19; v. 285; p. 459.

Johnson, James P., Cleveland Heights, Ohio. Stud-bolt driver. No. 1,373,617; Apr. 5; v. 285; p. 46.

Johnson, John A., Walcott, N. D. Closure for hay-fork-track openings. No. 1,375,391; Apr. 19; v. 285; p. 492.

Johnson, John E., Elgin, Ill. Lathe. No. 1,374,378; Apr. 12; v. 285; p. 234.

Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Label-picking device. No. 1,376,097; Apr. 26; v. 285; p. 659.

Johnson, Leonard T., Boston, Mass. Scale. No. 1,375,636; Apr. 19; v. 285; p. 538.

Johnson, Louis V., Orange, Tex. Aircraft. No. 1,374,150; Apr. 5; v. 285; p. 149.

Johnson, Stuart P., Washington, D. C. Grenade-thrower. No. 1,374,854; Apr. 12; v. 285; p. 326.

Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Takedown gun. No. 1,373,888; Apr. 5; v. 285; p. 99.

Johnson, William B., Elkhart, Ind., assignor to Foster-Johnson Reamer Company. Adjustable reamer. No. 1,375,460; Apr. 19; v. 285; p. 505.

Johnson, William R. (See Johnson, Charles H. and W. R.)

Johnston, John O., Newark, N. J. Guard for wheels. No. 1,375,392; Apr. 19; v. 285; p. 492.

Johnston, John O., assignor to The J. J. Disc-Wheel Corporation, Newark, N. J. Guard for wheels. No. 1,373,889; Apr. 5; v. 285; p. 99.

Johnstone, George A., Chicago, Ill. High-frequency motor-alternator. No. 1,375,393; Apr. 19; v. 285; p. 492.

Jones, Ap T., assignor to American Steel Foundries, Chicago, Ill. Anchor. No. 1,373,740; Apr. 5; v. 285; p. 69.

Jones, Ap T., assignor to American Steel Foundries, Chicago, Ill. Anchor arrangement. No. 1,373,741; Apr. 5; v. 285; p. 69.

Jones, Ap T., assignor to American Steel Foundries, Chicago, Ill. Anchor mechanism. No. 1,373,742; Apr. 5; v. 285; p. 70.

Jones, Eugene A., Los Angeles, Calif. Collapsible rim for wheels. No. 1,374,574; Apr. 12; v. 285; p. 273.

Jones, Frank, Salt Lake City, Utah. Oil-shale retort. No. 1,373,890; Apr. 5; v. 285; p. 99.

Jones, Harry, Suffern, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Molding brake-shoe inserts. No. 1,375,702; Apr. 26; v. 285; p. 584.

Jones, Henry P., Buffalo, N. Y. Drawing-pad device. No. 1,376,098; Apr. 26; v. 285; p. 659.

Jones, James E. (See Newdick, Norton A., assignor.)

Jones, John W., Haddonfield, N. J. Sash-holding device. No. 1,373,964; Apr. 5; v. 285; p. 115.

Jones, John W., El Reno, Okla. Protecting documents. No. 1,374,208; Apr. 12; v. 285; p. 201.

Jones, John W., Cannock, England, assignor to Haslam & Stretton Limited, Cardiff, Wales. Miner's electric safety-lamp. No. 1,373,820; Apr. 5; v. 285; p. 86.

Jones & Laughlin Steel Company. (See Free, John W., assignor.)

Jones, Leo D., Philadelphia, assignor to The Sharples Specialty Company, West Chester, Pa. Method and mechanism for centrifugally separating substances. No. 1,373,743; Apr. 5; v. 285; p. 70.

Jones, Llewellyn R., assignor of one-fourth to C. A. Badgley, Belleville, Ontario, Canada. Wringer and clamp therefor. No. 1,373,965; Apr. 5; v. 285; p. 115.
Jones, Sidney P., and D. P. Wallace, Waco, Tex. Hair-clipper. No. 1,375,966; Apr. 26; v. 285; p. 634.
Jordan, Charles H., San Antonio, Tex. Hanger for car-doors. No. 1,374,302; Apr. 12; v. 285; p. 219.
Joy, Fred. (See Holmes, George A., assignor.)
Joyce, Walter P., and H. A. Feldt, Kansas City, Mo. Pipe-cutting wheel. No. 1,374,663; Apr. 12; v. 285; p. 290.
Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
Juhnke, Edward A. (See Daniel, C., and Juhnke.)
Jungers, John, Grafton, Wis. Sectional heater. No. 1,374,575; Apr. 12; v. 285; p. 278.
Junkers, Hugo. (See Wagensell, Ludwig, assignor.)
Jurek, Frank J., Buffalo, N. Y. Aeroplane. No. 1,375,297; Apr. 19; v. 285; p. 474.
Juresisin, George, Wilkes-Barre, Pa. Mine-drill. No. 1,374,744; Apr. 12; v. 285; p. 305.
Jurlw, Teodor, East Douglas, Mass. Beehive. No. 1,374,745; Apr. 12; v. 285; p. 305.
Kaempf, Ludwig W., Fort Scott, Kans. Trolley. No. 1,375,591; Apr. 19; v. 285; p. 530.
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Electric heater. (Reissue.) No. 15,085; Apr. 12; v. 285; p. 335.
Kahn, Moritz. (See Ritchie, H. C., and Kahn.)
Kahn, Moses M., San Francisco, and F. J. Silva, Oakland, Calif.; said Silva assignor to M. M. Kahn. Dump-body partition and operating means therefor. No. 1,376,146; Apr. 26; v. 285; p. 668.
Kalbfleisch, George C., Tiffin, Ohio, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Ware-molding apparatus. No. 1,373,891; Apr. 5; v. 285; p. 100.
Kane, Thomas E., Canton, assignor of one-half to A. Sydeman, Boston, Mass. Machine for trimming the overflow from the breast of rubber heels. No. 1,376,018; Apr. 26; v. 285; p. 644.
Karitzky, John. (See Sherwood, D. R., and Karitzky.)
Karitzky, John, Garwood, N. J., assignor to Garwood Company. Toggle. No. 1,374,924; Apr. 19; v. 285; p. 402.
Karitzky, John, Garwood, N. J., assignor to Garwood Company. Toggle. No. 1,374,925; Apr. 19; v. 285; p. 402.
Karitzky, John, Garwood, assignor to H. B. Newhall, Jr., Plainfield, N. J., executor. Spring-toggle. No. 1,374,926; Apr. 19; v. 285; p. 402.
Kashinsky, John, Hoboken, assignor to New Jersey Can Company, Weehawken, N. J. Steam washing-machine. No. 1,375,913; Apr. 26; v. 285; p. 623.
Kaspar, Leopold, Gross-Senitz, Czecho-Slovakia. Machine for shelling and polishing grain and the like. No. 1,375,592; Apr. 19; v. 285; p. 530.
Katzung, George W. (See Long, M. E., and Katzung.)
Kauffman, Sherman, assignor of one-third to C. Gillespie and one-third to H. Gillespie, Brownville, Nebr. Decoy. No. 1,376,282; Apr. 26; v. 285; p. 694.
Kaufman, Jonas J., Pretty Prairie, Kans. Barrel-stand. No. 1,375,593; Apr. 19; v. 285; p. 530.
Kaufman, Max, Brooklyn, N. Y. Lady's handbag. No. 1,376,099; Apr. 26; v. 285; p. 659.
Kautz, Charles W., Jr., Lancaster, Pa. Circuit-restoring relay. No. 1,375,518; Apr. 19; v. 285; p. 516.
Kazda, Peter J., Oklahoma, Okla. Washing-machine. No. 1,375,637; Apr. 19; v. 285; p. 539.
Kearns, William S., Duluth, assignor of one-fourth to H. B. Smith, St. Paul, Minn., and one-half to P. Wertz, Pittsburgh, Pa. Grease-cup for locomotives. No. 1,375,703; Apr. 26; v. 285; p. 584.
Keator, Edward O., Dayton, Ohio. Cable-coupling. No. 1,375,519; Apr. 19; v. 285; p. 516.
Keiper, Frank. (See Mee, Charles, assignor.)
Keith, Herbert J., assignor to Ulfers Manufacturing Company, Freeport, Ill. Lamp-shade holder. No. 1,374,576; Apr. 12; v. 285; p. 278.
Keller, Bruce B., Scranton, Pa. Safety radius-rod. No. 1,374,016; Apr. 5; v. 285; p. 124.
Keller, Fred W. (See Keller, John O., assignor.)
Keller, John O., Cincinnati, Ohio, assignor of one-half to F. W. Keller, Covington, Ky. Egg-tester. No. 1,374,577; Apr. 12; v. 285; p. 273.
Kelley, Solomon J., Binghamton, N. Y. Separator for metal and wood sawdust. No. 1,376,019; Apr. 26; v. 285; p. 644.
Kellum, Charles S., assignor to Commonwealth Brass Corporation, Detroit, Mich. Valve. No. 1,375,967; Apr. 26; v. 285; p. 634.
Kelly, James G., A. L. Pringle and H. Hall, Sedalia, Mo. Bearing metal. No. 1,376,339; Apr. 26; v. 285; p. 705.
Kelly, John A. (See Denmuth, Alfred M., assignor.)
Kelly, John J., Holyoke, Mass. Calendar. No. 1,373,744; Apr. 5; v. 285; p. 70.
Kelly, Thomas, Poulton-Wallasey, England. Ball-caster. No. 1,375,394; Apr. 19; v. 285; p. 492.
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Keltner, Amos L., Eldorado, Kans. Chain-fastener. No. 1,374,579; Apr. 12; v. 285; p. 274.
Kendalite Company. (See Kendall, James P., assignor.)
Kendall, James P., assignor, by mesne assignments, to Kendalite Company, Inc., New York, N. Y. Generating and utilizing hydrocarbon vapors or gases. No. 1,376,100; Apr. 26; v. 285; p. 660.
Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Uniformly-distributing tripper. No. 1,375,704; Apr. 26; v. 285; p. 584.
Kendall, William G., Newark, N. J. Powder-puff. No. 1,374,746; Apr. 12; v. 285; p. 305.
Kendall, William G., Newark, N. J. Rouge-pad. No. 1,375,705; Apr. 26; v. 285; p. 584.
Kennedy, Benjamin H., *et al.* (See Kennedy, Benjamin H., assignor.)
Kennedy, Benjamin H., assignor, by mesne assignments, to B. H. Kennedy and D. M. Kennedy, Rochester, N. Y. Folding crib. No. 1,373,821; Apr. 5; v. 285; p. 86.
Kennedy, Dewey M., *et al.* (See Kennedy, Benjamin H., assignor.)
Kennedy, George C., Waterloo, Iowa. Impermeable reservatory. No. 1,375,758; Apr. 26; v. 285; p. 593.
Kepley, Edward K., Boonton, and C. A. Cole, Jersey City, N. J. Wooden panel. No. 1,374,580; Apr. 12; v. 285; p. 274.
Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,374,664; Apr. 12; v. 285; p. 290.
Ketcham, Horace A. (See Cartxdafner, R. E., and Ketcham.)
Keyser, George H., Akron, Ohio. Mechanical directory. No. 1,373,966; Apr. 5; v. 285; p. 115.
Kideney, William W., assignor to American Electric Company, Chicago, Ill. Operating mechanism for phonographs. No. 1,374,151; Apr. 5; v. 285; p. 149.
Kiel, John. (See Young, Fay J., assignor.)
Kienzle, Charles J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Cutting-chain. No. 1,375,638; Apr. 19; v. 285; p. 539.
Kliborn, Karl B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Interlocking mold. No. 1,375,660; Apr. 19; v. 285; p. 543.
Kilbourne & Jacobs Manufacturing Company, The. (See Burner, William L., assignor.)
Killman Development Co. (See Killman, Thomas A., assignor.)
Killman, Thomas A., assignor to Killman Development Co., Nashville, Tenn. Combined gas and steam system for engines. No. 1,373,509; Apr. 5; v. 285; p. 26.
Kilpatrick, Robert L., Hempstead, Tex. Combined brace and angle-bar for vehicle-bodies. No. 1,373,563; Apr. 5; v. 285; p. 36.
Kimball, A., Company. (See Anthony, Marcus O., assignor.)
Kimbark, Eugene U., Evanston, Ill. Protecting strip for glass-windows or the like. No. 1,375,914; Apr. 26; v. 285; p. 623.
Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Insulated squirrel-cage winding. No. 1,375,007; Apr. 19; v. 285; p. 418.
Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Induction-motor. No. 1,375,461; Apr. 19; v. 285; p. 505.
Kimble Glass Company. (See Halversen, Hans N., assignor.)
Kimbul, Morton S., Oakland, Calif. Liquid-carbonating apparatus. No. 1,373,892; Apr. 5; v. 285; p. 100.
Kimmet, Henry, assignor to The Liberty Manufacturing & Sales Company, Kansas City, Mo. Vehicle-brake. No. 1,375,706; Apr. 26; v. 285; p. 584.
King, Austin E., Cole, S. D. Harrow. No. 1,373,618; Apr. 5; v. 285; p. 46.
King, Joseph M., Detroit, Mich. Exhaust-manifold. No. 1,374,927; Apr. 19; v. 285; p. 402.
King, Louis V., Montreal, Quebec, Canada. Tuning of diaphragms for generating or receiving sound-waves. No. 1,375,707; Apr. 26; v. 285; p. 585.
Kingsley, Francis, New Rochelle, N. Y. Shoe-polishing apparatus. No. 1,373,662; Apr. 5; v. 285; p. 54.
Kingsley, Lee, Syracuse, N. Y. Holder for adhesive binders. No. 1,375,520; Apr. 19; v. 285; p. 516.
Kingsley, Ralph J., New York, N. Y. Electric fuse. No. 1,374,084; Apr. 5; v. 285; p. 137.
Kingswell, Percy N. (See Clews, Charles E., assignor.)
Kinsey, Albert. (See Kinsey, Edison B., and A.)
Kinsey, Edison B. and A., Prairie Depot, Ohio. Door-catch. No. 1,376,101; Apr. 26; v. 285; p. 660.
Kinzel, Augustus B., New York, N. Y. Spark-plug. No. 1,375,098; Apr. 19; v. 285; p. 436.
Klon, Max T., Washington, D. C. Flying-machine. No. 1,375,298; Apr. 19; v. 285; p. 475.
Kirk, Walter I. (See Jefferson, B. H., and Kirk.)
Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Valve-operating mechanism. No. 1,373,432; Apr. 5; v. 285; p. 10.
Kitt, Frederick T., Seattle, Wash., assignor, by mesne assignments, to American Car and Foundry Company, New York, N. Y. Electric rivet-heater. No. 1,374,453; Apr. 12; v. 285; p. 249.
Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Radial drill. No. 1,374,581; Apr. 12; v. 285; p. 274.
Klay, Abraham B., Beaverdam, Ohio. Wheel-puller. No. 1,376,340; Apr. 26; v. 285; p. 705.
Kleckler, Henry, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Control-column. No. 1,373,433; Apr. 5; v. 285; p. 10.
Kleidman, Joseph, New York, N. Y. Paper-feeding machine. No. 1,374,303; Apr. 12; v. 285; p. 219.
Klein, Benjamin, Chicago, Ill. Tool-sharpening gage. No. 1,374,582; Apr. 12; v. 285; p. 274.

Klein, Herbert F., Deerfield, Wis. Hand-truck. No. 1,374,379; Apr. 12; v. 285; p. 234.
Kleine, Harry A., Jersey City Heights, N. J. Vehicle-fender. No. 1,373,822; Apr. 5; v. 285; p. 86.
Klett, Robert E., Ridgefield Park, N. J. Colorimeter. No. 1,375,708; Apr. 26; v. 285; p. 585.
Klingbeil, Gottlieb L. E., Omaha, Nebr. Device for facilitating the lubrication of vehicle-springs. No. 1,374,583; Apr. 12; v. 285; p. 274.
Klock, Frank B., Little Falls, N. Y. Convertible wheel or sleigh vehicle. No. 1,375,008; Apr. 19; v. 285; p. 418.
Kloneck, August J., New York, N. Y. Generating system for electric currents. No. 1,374,170; Apr. 5; v. 285; p. 153.
Klopfenstein, Robert S., assignor to National Lock-In-Tank Company, Wichita, Kans. Fluid-control lock for tanks. No. 1,376,283; Apr. 26; v. 285; p. 694.
Knapp, David R., Pottsville, Pa. Boiler feed-water regulator. No. 1,376,102; Apr. 26; v. 285; p. 660.
Knapp, Glenn A., Hugoton, Kans. Lid-lifter for receptacles. No. 1,374,017; Apr. 5; v. 285; p. 124.
Knecht, Harley C., Akron, Ohio. Apparatus for making rubber products. No. 1,374,584; Apr. 12; v. 285; p. 275.
Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe-soles. No. 1,373,564; Apr. 5; v. 285; p. 36.
Knight, Stanley H., Chicago, Ill. Measuring-faucet. No. 1,374,665; Apr. 12; v. 285; p. 290.
Knott, Frank W. (See Blakely, W. W., and Knott.)
Knowlton, M. D., Company. (See Pearsall, Chester B., assignor.)
Knudsen, Jens P., Kædeby, Denmark. Artificial leg. No. 1,375,299; Apr. 19; v. 285; p. 475.
Koch, George T., and A. L. Stallkamp, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa. Acetylation of hydrocarbons and subsequent recovery of the products of the reaction. No. 1,374,666; Apr. 12; v. 285; p. 290.
Kocher, Rudolph A., San Francisco, Calif. Converting cellulose. No. 1,374,928; Apr. 19; v. 285; p. 403.
Koepke, Fred V., Lamoille, Ill. Photographic-printing apparatus. No. 1,373,893; Apr. 5; v. 285; p. 100.
Koeppe, Emma, *et al.* (See Hokanson, Charles, assignor.)
Kohl, Mike, North Milwaukee, and W. Renner, Milwaukee, Wis.; said Renner assignor to said Kohl. Demountable automobile-rim. No. 1,374,585; Apr. 12; v. 285; p. 275.
Kohn, Frederick, New York, N. Y. Collar-clasp. No. 1,373,619; Apr. 5; v. 285; p. 46.
Kohn, John A., North Fond du Lac, Wis. Clamp. No. 1,376,284; Apr. 26; v. 285; p. 695.
Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,373,894; Apr. 5; v. 285; p. 100.
Koppel, Julius G., Akron, Ohio. Clutch-controlling mechanism. No. 1,376,341; Apr. 26; v. 285; p. 705.
Koppers Company, The. (See Becker, Joseph, assignor.)
Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
Kopple, Morris D. (See Doherty, John, assignor.)
Kortbals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Brush-shifting device for alternating-current motors. No. 1,376,020; Apr. 26; v. 285; p. 644.
Koski, Andrew W., and T. Casey, Fitchburg, Mass. Pin-fastener. No. 1,375,033; Apr. 19; v. 285; p. 423.
Kovacs, Louis, Chicago, Ill. Sliding switch. No. 1,375,300; Apr. 19; v. 285; p. 475.
Kraft, Henry P. (See Schweinert, M. C., and Kraft.)
Kraft, Henry P., Ridgewood, N. J., assignor to A. Schraeder's Son, Incorporated, Brooklyn, N. Y. Gage and pump connection. No. 1,374,578; Apr. 12; v. 285; p. 274.
Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,373,434; Apr. 5; v. 285; p. 10.
Kramer, Andrew A., Kansas City, Mo. Can-rack. No. 1,373,435; Apr. 5; v. 285; p. 11.
Kramer, Eric B., Brooklyn, N. Y. Multicylinder explosive-engine. No. 1,373,510; Apr. 5; v. 285; p. 26.
Kramer, Eric B., Brooklyn, N. Y. Liquid-fuel burner. No. 1,373,511; Apr. 5; v. 285; p. 26.
Kramer, Lee R., Kewanee, Ill. Bottom-protector for wash-boilers and culinary vessels. No. 1,375,158; Apr. 19; v. 285; p. 448.
Kraner, Joseph, Heaton Chapel, England. Apparatus for the treatment of rheumatism, gout, sciatica, neuralgia, and similar ailments. No. 1,375,050; Apr. 19; v. 285; p. 427.
Kristofek, Frank J. (See Fischer, H. L., and Kristofek.)
Križan, Alois, Philadelphia, Pa. Ice-creeper. No. 1,375,254; Apr. 19; v. 285; p. 465.
Krocker, Adolf G., Waco, Tex. Saw-table gage. No. 1,374,159; Apr. 19; v. 285; p. 448.
Krogmann, Frank J., Eureka, Calif. Dispensing can or receptacle. No. 1,376,103; Apr. 26; v. 285; p. 660.
Krohn, Nels, Chicago, Ill., assignor to The Adams & Westlake Company. Brake-handle. No. 1,375,709; Apr. 26; v. 285; p. 585.
Kron, Rudolf, Gersau, Switzerland. Making fibers. No. 1,376,285; Apr. 26; v. 285; p. 695.
Krook, A. Elizabeth. (See Krook, John L. L.)
Krook, John L. L., deceased, Proctor, Vt., by decree of distribution to A. E. Krook. Riveting-machine. No. 1,375,395; Apr. 19; v. 285; p. 492.
Kruger, Harry B. (See Strandera, Julien, assignor.)
Krum, Charles L. and H. L., assignor to Morkrum Company, Chicago, Ill. Telegraph-transmitter. No. 1,374,152; Apr. 5; v. 285; p. 150.
Krum, Howard L. (See Krum, Charles L., and H. L.)
Kuceru, Peter, assignor to Capstan Glass Company, South Connellsville, Pa. Apparatus for assembling cellular forms. No. 1,374,454; Apr. 12; v. 285; p. 249.
Kuehn, Max R. (See Pierce, R. S., and Kuehn.)
Kuehn, Paul, Denver, Colo. Air-pump. No. 1,375,160; Apr. 19; v. 285; p. 448.
Kuehnhold, Otto J., assignor to The Scientific Heater Company, Cleveland, Ohio. Auxiliary heater for furnaces. No. 1,375,848; Apr. 26; v. 285; p. 611.
Kuffel, David C., assignor of one-half to H. D. Williams, Randsburg, Calif. Safety coupling-hook. No. 1,375,301; Apr. 19; v. 285; p. 475.
Kuhhorn, John, New York, N. Y. Return-envelop. No. 1,373,512; Apr. 5; v. 285; p. 26.
Kuhn, Frank and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric cooking-range. No. 1,376,208; Apr. 26; v. 285; p. 680.
Kuhn, Frank and J. A. Hand, assignor to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,376,209; Apr. 26; v. 285; p. 680.
Kunitz, Hannibal A., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Atomizing-burner. No. 1,373,565; Apr. 5; v. 285; p. 36.
Kunitz, Hannibal A., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Burner. No. 1,374,153; Apr. 5; v. 585; p. 150.
Kunkle, Bayard D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system for automobiles. No. 1,374,586; Apr. 12; v. 285; p. 275.
Kuntz, Jake J., Oakville, Iowa. Automobile-fender brace. No. 1,375,594; Apr. 19; v. 285; p. 530.
Kuroishi, Ichiji, Tokyo, Japan. Changeable centrifugal pump. No. 1,374,747; Apr. 12; v. 285; p. 306.
Kuttroff, Adolf. (See Römer, Adolf, assignor.)
Kuttroff Pickhardt & Co. (See Lendle, August, assignor.)
Labor, John C. (See Middleton, Percy R., assignor.)
Lacerda, Harry A., Jersey City, N. J., assignor to R. W. Benson, New York, N. Y. Lubricating-packing. (Reissue.) No. 15,078; Apr. 5; v. 285; p. 154.
Lachance, Joseph, Morgan Hill, Calif. Plowing device. No. 1,376,147; Apr. 26; v. 285; p. 669.
Lackner, Rolph J., New York, N. Y. Vehicle-wheel. No. 1,375,051; Apr. 19; v. 285; p. 427.
Laclede-Christy Clay Products Company. (See Berry, Charles W., assignor.)
Ladd, James B., Ardmore, Pa. Handling bricks. No. 1,373,513; Apr. 5; v. 285; p. 27.
Lafayette, Albert A., Lawrence, Mass. Lug-strap holder. No. 1,376,148; Apr. 26; v. 285; p. 669.
Lake, Simon, Milford, Conn. Casting. No. 1,374,855; Apr. 12; v. 285; p. 326.
Lakewood Engineering Company, The. (See Lockbart, James, assignor.)
La Mar, Frank C., and P. J. Hopkins, Pittsburgh, Pa. Renewable electric fuse. No. 1,376,342; Apr. 26; v. 285; p. 706.
Lamb, David C., Detroit, Mich. Trouble-hunter. No. 1,374,455; Apr. 12; v. 285; p. 250.
Lamb, Elden P., assignor of eleven-twentieths to J. Bird, Camden, Me. Carbureter. No. 1,376,343; Apr. 26; v. 285; p. 706.
Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Firepot. No. 1,374,587; Apr. 12; v. 285; p. 275.
Lambert, Thomas B., Portland, Oreg. Weighing-machine. No. 1,374,456; Apr. 12; v. 285; p. 250.
Lamiell, Earld H., Greenwich, Ohio. Cultivator. No. 1,376,344; Apr. 26; v. 285; p. 706.
Lamontagne, Antoine, Montreal, Quebec, Canada. Blower for ventilating systems. No. 1,375,595; Apr. 19; v. 285; p. 530.
Lamprecht, Carl W., assignor of one-half to J. L. Gilbert, Los Angeles, Calif. Peel-plate for baking. No. 1,373,663; Apr. 5; v. 285; p. 55.
Lancaster Automatic Machine Company. (See Paul, Edward B., assignor.)
Lancaster, Frank W., Philadelphia, Pa. Air-deflecting device for window-frames. No. 1,376,210; Apr. 26; v. 285; p. 680.
Landers, Clyde W., New York, N. Y. Motor and dynamo construction. No. 1,375,161; Apr. 19; v. 285; p. 448.
Landers, William H., assignor of one-half to H. S. Loud, New York, N. Y. Making alkaline sulfid. No. 1,374,209; Apr. 12; v. 285; p. 202.
Lang, John M. (See Rabin, S., and Lang.)
Lang, Josiah W., Floris, Iowa. Egg-handling device. No. 1,374,457; Apr. 12; v. 285; p. 250.
Langbert, Ernst G. E., Stockholm, Sweden. Refrigerating apparatus. No. 1,375,396; Apr. 19; v. 285; p. 493.
Langdon, Nelson M., Mancelona, Mich. Storage-bin. No. 1,376,021; Apr. 26; v. 285; p. 644.

Langhard, Johann K., assignor to Fredrikstad Elektrokemiske Fabriker A/S., Fredrikstad, Norway. Manufacture of perborates. No. 1,375,596; Apr. 19; v. 285; p. 531.
Langley, William E. (See Humason, Granville A., assignor.) (Reissue.)
Langmaid, Samuel P., and L. A. Walton, Seattle, Wash. Spark-trouble locator. No. 1,376,022; Apr. 26; v. 285; p. 645.
Langrock, Joseph H., New York, N. Y. Device for attaching covers to cushions. No. 1,374,210; Apr. 12; v. 285; p. 202.
Lanning, James K. (See Cunniff, Edward A. and J. V., assignors.)
La Paugh, Louie T., assignor of one-fourth to J. W. Shea, and one-fourth to E. C. Shea, Utica, N. Y. Nursing-bottle. No. 1,375,917; Apr. 26; v. 285; p. 624.
La Paugh, Louis T., assignor of one-fourth to J. W. Shea and one-fourth to E. C. Shea, Utica, N. Y. Frame for nursing-bottles. No. 1,374,667; Apr. 12; v. 285; p. 291.
Larson, Andrew F., Portland, Oreg., assignor to The Gravity-Door Hanger Company. Sliding-door hanger. No. 1,375,915; Apr. 26; v. 285; p. 624.
Larson, Andrew F., Portland, Oreg., assignor to The Gravity Door Hanger Company. Sliding-door hanger. No. 1,375,916; Apr. 26; v. 285; p. 624.
Larson, August L., Kellogg, Idaho. Stewart grate construction for sintering-machines. No. 1,373,620; Apr. 5; v. 285; p. 46.
Larson, George, Minneapolis, Minn. Buckle. No. 1,373,745; Apr. 5; v. 285; p. 70.
Larson, Henry I., Milwaukee, Wis. Synchronizer. No. 1,374,929; Apr. 19; v. 285; p. 403.
Larson, Theodore H., Oshkosh, Wis. Vaginal washer. No. 1,374,458; Apr. 12; v. 285; p. 250.
Lasky, Anthony, Bridgeport, Conn. Lock. No. 1,375,521; Apr. 19; v. 285; p. 517.
Lassiter, Columbus K., Richmond, Va., assignor to N. E. Woods, Paterson, N. J. Automatic spacing and punching machine. No. 1,375,302; Apr. 19; v. 285; p. 475.
Latendorf, Charles B., Bayonne, N. J. Clamp. No. 1,375,849; Apr. 26; v. 285; p. 611.
Lattanzio, Giovanni, New York, N. Y. Safety-envelop. No. 1,375,968; Apr. 26; v. 285; p. 634.
Lau, Richard. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Lava Crucible Company of Pittsburgh. (See De Bats, Jean H. L., assignor.)
Lavers, Henry. (See Faul, C., and Lavers.)
Lavezzi, Samuel J., Chicago, Ill. Corner-block for bedsteads. No. 1,375,850; Apr. 26; v. 285; p. 611.
Lawrence Duck Company. (See Aitken, Leonard, assignor.)
Lawrence, George, Adelaide, assignor to W. Usher, Norwood, South Australia, Australia. Butter-cooler. No. 1,375,397; Apr. 19; v. 285; p. 493.
Lawson, Aubrey J., New York, N. Y. Automatic rocking-cradle. No. 1,374,507; Apr. 12; v. 285; p. 259.
Lawton, Peter S., New Orleans, La. Dry-dock. No. 1,376,345; Apr. 26; v. 285; p. 706.
Lazarus, David, New York, N. Y. Adjustable rim. No. 1,374,930; Apr. 19; v. 285; p. 403.
Lea, Charles, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Pattern or color indicating mechanism for chenille or other machines. No. 1,373,514; Apr. 5; v. 285; p. 27.
Le Craw, John W. (See Carel, C. E., and Le Craw.)
Lederer, Carl F., assignor to G. Willard Rich, trustee, Rochester, N. Y. Making animated-cartoon motion-picture films. No. 1,375,918; Apr. 26; v. 285; p. 644.
Ledoux, John W., Swarthmore, Pa. Integrating mechanism. No. 1,374,508; Apr. 12; v. 285; p. 260.
Lee, Robert L. (See Martin, J. A., and Lee.)
Leece, Bennett M. and H. C. Branch, assignors to The Leece-Neville Company, Cleveland, Ohio. Regulator for dynamo-electric machines. No. 1,374,856; Apr. 12; v. 285; p. 326.
Leece-Neville Company, The. (See Leece, B. M., and Branch, assignors.)
Legendre, George E., Bridgeport, Conn. Extracting-tool. No. 1,374,588; Apr. 12; v. 285; p. 275.
Lehbank, Claus H. (See Auert, Nicholas A., assignor.)
Lehman, Bessie A., administratrix. (See Lehman, John H.)
Lehman, John H., deceased, Elkhart, Ind.; B. A. Lehman, administratrix. Traffic-indicator. No. 1,374,380; Apr. 12; v. 285; p. 234.
Lehman, Werner. (See Wilkie, E. J., Stevens, and Lehman.)
Leibowitz, Jack S., Brooklyn, N. Y. Attachment for hat-clipping machines. No. 1,375,597; Apr. 19; v. 285; p. 531.
Leich Electric Company. (See Leich, Oscar M., assignor.)
Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Spark-plug. No. 1,375,851; Apr. 26; v. 285; p. 611.
Leiman, Gustave A., New York, N. Y. Hood of polishing and buffing machines. No. 1,375,303; Apr. 19; v. 285; p. 476.
Leist, Jean L., Brooklyn, N. Y. Composition for repelling insects. No. 1,375,220; Apr. 19; v. 285; p. 459.
Lendle, August, Forest Hills, assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y. Dyeing. No. 1,375,919; Apr. 26; v. 285; p. 624.
Lentz, George W. (See Cox, C. C., and Lentz.)
Leonard, Caswell L., Corinth, Miss. Post-anchor. No. 1,375,398; Apr. 19; v. 285; p. 493.
Leonard, Caswell L., Corinth, Miss. Pastry-board. No. 1,375,399; Apr. 19; v. 285; p. 493.
Leonard, J. E. (See Briles, Larkin, assignor.)
Leonard, Leslie V., Richmond, Victoria, Australia. Electric heater unit. No. 1,373,895; Apr. 5; v. 285; p. 100.
Leonard, Norris C., Baltimore, Md. Sanitary trap. No. 1,375,598; Apr. 19; v. 285; p. 531.
Leah, Fred J., *et al.* (See Davis, Ernest F., assignor.)
Lettenberger, John R., Jr. (See Montgomery, Roscoe C.)
Levan, Clarence E., Berwick, Pa. Spark-arrester. No. 1,375,052; Apr. 19; v. 285; p. 427.
Levett, Alexander, New York, N. Y. Buffing or polishing wheel. No. 1,374,018; Apr. 5; v. 285; p. 124.
Levey, Harold A., New Orleans, La. Treating fatty acids and glycerids thereof. No. 1,374,589; Apr. 12; v. 285; p. 276.
Levin, Nils D., assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Drilling-machine. No. 1,374,590; Apr. 12; v. 285; p. 276.
Levy, Charles A., *et al.* (See Gregory, William F., assignor.)
Levy, Maurice. (See Bornhaupt, Florence, assignor.)
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Bearing for variable-speed transmission mechanism. No. 1,375,053; Apr. 19; v. 285; p. 428.
Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
Lewis, Harry S., Beaver Falls, N. Y. Composite sheet. No. 1,374,931; Apr. 19; v. 285; p. 403.
Lewis, Henry G., and W. S. Mayer, assignors to Electric Service Supplies Company, Philadelphia, Pa. Handhold-hanger. No. 1,373,746; Apr. 5; v. 285; p. 70.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. (Reissue.) No. 15,096; Apr. 26; v. 285; p. 715.
Liberty Manufacturing & Sales Company, The. (See Kimmet, Henry, assignor.)
Lichty, Carroll, Des Moines, Iowa. Hanger for towels and the like. No. 1,374,459; Apr. 12; v. 285; p. 250.
Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,374,591; Apr. 12; v. 285; p. 276.
Liljegren, Gunnar O., Chicago, Ill., assignor to The Viking Corporation, Hastings, Mich. Sprinkler-head. No. 1,376,104; Apr. 26; v. 285; p. 660.
Lilleberg, Charles L., Chicago, Ill. Switching device. No. 1,374,085; Apr. 5; v. 285; p. 137.
Lilleberg, Charles L., Chicago, Ill. Switching device. No. 1,374,086; Apr. 5; v. 285; p. 137.
Lillemoen, William O. (See Streeter, G. J., and Lillemoen.)
Lincecum, Lucullus G., Chicago, Ill., assignor of one-half to B. Binkowitz, Kansas City, Mo. Tractor attachment for automobiles. No. 1,375,791; Apr. 26; v. 285; p. 599.
Lincoln, James F., Cleveland, Ohio. Safety charging device for batteries. No. 1,373,621; Apr. 5; v. 285; p. 47.
Lindemann, William G., assignor to Ozone Company of America, Milwaukee, Wis. Combined faucet and switch. No. 1,375,099; Apr. 19; v. 285; p. 436.
Lindley, George W., Philadelphia, Pa. Cord fabric. No. 1,374,668; Apr. 12; v. 285; p. 291.
Lindquist, Carl J., New York, N. Y., assignor of one-half to P. C. Hayes, Toledo, Ohio. Submarine-destroyer. No. 1,376,105; Apr. 26; v. 285; p. 661.
Lindquist, David E. (See Helby, C. G., Hill, and Lindquist.)
Lindquist, David E., *et al.* (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Lindquist, Erick V., Des Moines, Iowa., assignor to Qupee Hose Supporter Company, Eau Claire, Wis. Hose-supporter. No. 1,375,162; Apr. 19; v. 285; p. 448.
Lindquist, John N., Marquette, Mich. Neck-yoke center. No. 1,375,920; Apr. 26; v. 285; p. 625.
Lindsay, Charles W., Houston, Tex. Single-trigger mechanism for double-barrel guns. No. 1,375,710; Apr. 26; v. 285; p. 585.
Lindsay, Harvey B., Oakland, Calif. Can for liquids. No. 1,374,932; Apr. 19; v. 285; p. 403.
Lindsay, John, assignor of one-third to W. H. E. Brown and one-third to J. Bell, Lurgan, Ireland. Thread-cutting and thread-end-holding device for embroidery sewing-machines. No. 1,373,747; Apr. 5; v. 285; p. 71.
Lindsey, George C., Los Angeles, Calif. Tuning-peg and mounting for musical instruments. No. 1,375,304; Apr. 19; v. 285; p. 476.
Lindsey, Kieffer, Rome, Ga. Gang-plow. No. 1,375,054; Apr. 19; v. 285; p. 428.
Linebarger, Charles E., Chicago, Ill. Thermoscope. No. 1,374,857; Apr. 12; v. 285; p. 327.
Linendoll, Asa E., Norwalk, Ohio. Attaching universal-joint spiders to tubular propeller-shafts. No. 1,375,852; Apr. 26; v. 285; p. 611.
Lingard, John S., Laporte, Ind. Steering-roller for tractors. No. 1,376,286; Apr. 26; v. 285; p. 695.
Link-Belt Company. (See Petersen, John H. D., assignor.)
Link, George N., assignor to The American Laundry Machinery Company, Norwood, Ohio. Work-holder for small presses. No. 1,374,304; Apr. 12; v. 285; p. 220.
Link, George N. (See Waream, C. E., and Link.)

Linotype and Machinery Limited. (See Billington, John E., assignor.)
Ljungström, Fredrik, Brevik, Lidingon, assignor to Aktiebolaget Ljungstrom Angturbin, Stockholm, Sweden. Gear-cutting machine. No. 1,374,460; Apr. 12; v. 285; p. 251.
Ljungström, Fredrik, Brevik, Lidingon, Sweden. Sailboat-rigging. No. 1,375,400; Apr. 19; v. 285; p. 493.
Lloyd, Edwin C. J., Jeannette, Pa. Box and attachment therefor. No. 1,373,622; Apr. 5; v. 285; p. 47.
Locher, Felix M., Visalia, Calif. Culinary implement. No. 1,376,346; Apr. 26; v. 285; p. 706.
Locke, Charles E., Haverhill, Mass. Shoe-rack. No. 1,374,592; Apr. 12; v. 285; p. 276.
Locke, Joseph A. (See Hathaway, Chester S., assignor.)
Lockhart, James, assignor to The Lakewood Engineering Company, Lakewood, Ohio. Locking device for dumping-hoppers. No. 1,375,462; Apr. 19; v. 285; p. 505.
Locomotive Feed Water Heater Company. (See Averill, Earl A., assignor.)
Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
Lodato, Joseph, Ogden, Utah. Ship-salvaging device. No. 1,375,055; Apr. 19; v. 285; p. 428.
Loebell, Henry O. (See Griswold, J. W., and Loebell.)
Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor and the like. No. 1,373,896; Apr. 5; v. 285; p. 101.
Lofquist, John V., St. Paul, Minn. Clothesline holder and tightener. No. 1,373,967; Apr. 5; v. 285; p. 115.
Logan, Marselius J., Springfield, Va., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa. Drill-chuck. No. 1,376,384; Apr. 26; v. 285; p. 713.
Logan, Merritt M., Springfield, Mo. Overalls-bib. No. 1,375,163; Apr. 19; v. 285; p. 449.
Lomax, Harold A., Pittsburgh, Pa. Hardening metal. No. 1,374,509; Apr. 12; v. 285; p. 260.
Lombardi, Frank, New York, N. Y. Washing-machine. No. 1,375,522; Apr. 19; v. 285; p. 517.
Lombi, Louis, North Bergen, N. J. Apparatus for coaling ships and the like. No. 1,373,436; Apr. 5; v. 285; p. 11.
Long, Logan L. (See Sherer, Glen D., assignor.)
Long, Milton E., and G. W. Katzung, Pittsfield, Mass., assignors to General Electric Company. Electric heating device. No. 1,376,023; Apr. 26; v. 285; p. 645.
Lonkert, Edward T. (See Yennett, J., and Lonkert.)
Loomis, Evarts G., Newark, N. J. Universal pipe-joint. No. 1,373,515; Apr. 5; v. 285; p. 27.
Lorraine, David G., Los Angeles, Calif. Gas, oil, and sand separator. No. 1,373,664; Apr. 5; v. 285; p. 55.
Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Key. No. 1,373,897; Apr. 5; v. 285; p. 101.
Loud, Henry S. (See Landers, William H., assignor.)
Louden Machinery Company. (See Neller, Albert H., assignor.)
Lougheed, Victor, San Francisco, Calif. Lid or closure for receptacles. No. 1,373,437; Apr. 5; v. 285; p. 11.
Loughridge, Matthew H. (See Gilman, W. H., and Loughridge.)
Lourim, John, Bay City, Mich. Road-plate for protecting roads. No. 1,375,792; Apr. 26; v. 285; p. 600.
Lowe, Charles A., Denver, Colo. Combined can opener and sanitary sealer. No. 1,374,019; Apr. 5; v. 285; p. 125.
Lowe, Thaddeus, San Marino, Calif. Apparatus for heating orchards. No. 1,375,221; Apr. 19; v. 285; p. 459.
Lower, Nathan M., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Screw conveyer. No. 1,373,748; Apr. 5; v. 285; p. 71.
Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,375,711; Apr. 26; v. 285; p. 585.
Lozon, Fred J., Los Angeles, Calif. Folding camp-table. No. 1,373,665; Apr. 5; v. 285; p. 55.
Lubken, John C. H., Westmont borough, Pa. Connecting rails. No. 1,374,381; Apr. 12; v. 285; p. 234.
Lucas, Herman. (See Schultze, Theodore C., assignor.)
Luddy, Paul W., Brookland, D. C. Serving-bowl. No. 1,375,401; Apr. 19; v. 285; p. 494.
Lund, Charles W., Willows, Calif. Motor-driven street-sweeper. No. 1,374,933; Apr. 19; v. 285; p. 403.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Die. No. 1,374,934; Apr. 19; v. 285; p. 404.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,375,712; Apr. 26; v. 285; p. 585.
Lundin, Trued B., assignor to American Machinery Co., Inc., Philadelphia, Pa. Machine for closing and sealing envelops. No. 1,374,593; Apr. 12; v. 285; p. 276.
Lundstrom, William C., Minneapolis, Minn. Bed for automobiles. No. 1,375,100; Apr. 19; v. 285; p. 436.
Luschen, Henry J., assignor to The United States Malleable Iron Co., Toledo, Ohio. Wheelbarrow reinforcement. No. 1,375,921; Apr. 26; v. 285; p. 625.
Lütolf-Bill, Johanna. (See Lütolf, Otto, assignor.)
Lütolf, Otto, assignor to J. Lütolf-Bill, St. Gallen, Switzerland. Bookbinding. No. 1,374,305; Apr. 12; v. 285; p. 220.
Lutz, William F. J., Chicago, Ill. Drain-fitting. No. 1,375,222; Apr. 19; v. 285; p. 460.
Lycoming Rubber Company. (See Trull, Lyman A., assignor.)
Lyman, Sarah E., Cleveland, Ohio. Collapsible globe. No. 1,375,853; Apr. 26; v. 285; p. 612.
Lyon & Healy. (See Jefferson, B. H., and Kirk, assignors.)
Lyon & Healy. (See Jefferson, Benjamin H., assignor.)
Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
Lyon, Robert V., Buffalo, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Curtain stretcher and drier. (Reissue.) No. 15,086; Apr. 12; v. 285; p. 335.
Lysle, Edmond H., New York, N. Y. Optical apparatus and using the same. No. 1,375,922; Apr. 26; v. 285; p. 625.
Lysle, Edmond H., New York, N. Y. Optical device. No. 1,375,923; Apr. 26; v. 285; p. 625.
McAdam, John V., U. S. Army. Rifle-grenade. No. 1,375,463; Apr. 19; v. 285; p. 506.
McAvoy, Charles F. and D. E., Long Island City, N. Y. Sectional building. No. 1,375,402; Apr. 19; v. 285; p. 494.
McAvoy, Daniel E. (See McAvoy, Charles F. and D. E.)
McBee Binder Co., The. (See McBee, Charles F., assignor.)
McBee, Charles F., Athens, Ohio. Paper-binder. No. 1,374,594; Apr. 12; v. 285; p. 277.
McBee, Charles F., Athens, Ohio., assignor to The McBee Binder Co. Loose-leaf file. No. 1,375,523; Apr. 19; v. 285; p. 517.
McCall Company, The. (See Hutter, Franz, assignor.)
McCallum, George I., Crosby, Pa. Door for box-cars. No. 1,373,516; Apr. 5; v. 285; p. 27.
McCampbell, Roy F., G. H. Scott, and G. Q. Smith, Chicago, Ill. Funeral and burial apparatus. No. 1,375,793; Apr. 26; v. 285; p. 600.
McCann, Grant, *et al.* (See Hubble, Joe H., assignor.)
McCarter, Charles, Decatur, Ill. Pipe and nut wrench. No. 1,374,748; Apr. 12; v. 285; p. 306.
McCarthy, Bartholomew F., Brooklyn, N. Y. Lock. No. 1,374,749; Apr. 12; v. 285; p. 306.
McCaskey Register Company, The. (See Peterson, Fredolf J., assignor.)
McChesney, J. S., & Co. (See Ritter, Charles E., assignor.)
McClellan, Harry H., Dayton, Ohio. Foot-supporter. No. 1,374,669; Apr. 12; v. 285; p. 291.
McClintock, Charles N., assignor to H. M. Manufacturing Company, Elwood, Ind. Rope shipping-halter. No. 1,374,087; Apr. 5; v. 285; p. 138.
McClintock, Ora D., Portland, Oreg. Hair-curler. No. 1,373,968; Apr. 5; v. 285; p. 115.
McClung, Charlie S., Longacre, W. Va. Gambrel. No. 1,373,823; Apr. 5; v. 285; p. 86.
McComb, Henry G., New York, N. Y. Toy tank. No. 1,376,347; Apr. 26; v. 285; p. 707.
McComb, Richard J., Chicago, Ill., assignor to Q & C Company, New York, N. Y. Manufacture of splice-bars for rail-joints. No. 1,373,749; Apr. 5; v. 285; p. 71.
McComb, William M., New York, N. Y. Converting higher-boiling-point hydrocarbon oils into lower-boiling-point hydrocarbon oils. No. 1,374,858; Apr. 12; v. 285; p. 327.
McCrie, May, *et al.* (See McCrie, Queenie, assignor.)
McCrie, Queenie, deceased; W. McCrie, administrator, assignor of one-half to M. McCrie, Sarnia, Ontario, and one-half to W. O. Sheets, Clivale, Alberta, Canada. Fruit-picker. No. 1,373,898; Apr. 5; v. 285; p. 101.
McCrie, William, administrator. (See McCrie, Queenie.)
McDaniel, Walter O., assignor to The H-K Toy & Novelty Co., Indianapolis, Ind. Toy motor-vehicle. No. 1,375,713; Apr. 26; v. 285; p. 586.
McDermott, James M., Springfield, Mass. Auto-transporting device. No. 1,375,403; Apr. 19; v. 285; p. 494.
McDonald, Charles D., Chicago, Ill. Automatic die-press. No. 1,375,924; Apr. 26; v. 285; p. 625.
McDonald, Howard C., Buffalo, N. Y. Towel-holder. No. 1,374,595; Apr. 12; v. 285; p. 277.
McDowell, John, Newark, N. J. Self-locking lifting device. No. 1,373,438; Apr. 5; v. 285; p. 11.
McDowell, John F., Shreveport, La. Fishing-tool. No. 1,374,510; Apr. 12; v. 285; p. 260.
McElroy, Robert L., New York, N. Y. Thermal circuit-closer. No. 1,374,596; Apr. 12; v. 285; p. 277.
McGehee, Abner J., Jackson, Tenn. Gasolene service-tank. No. 1,374,020; Apr. 5; v. 285; p. 125.
McGhee, Jesse M., Estancia, N. Mex. Combined desk, table, and bed. No. 1,375,524; Apr. 19; v. 285; p. 517.
McGill, Daniel F., Portland, Oreg. Automobile-signal. No. 1,374,306; Apr. 12; v. 285; p. 220.
McGogy, Donald H., Portland, Oreg. Automatic temperature-regulator for electrically-heated devices. No. 1,374,935; Apr. 19; v. 285; p. 404.
McGogy, Donald H., Portland, Oreg. Danger-signal for railway-cars. No. 1,374,936; Apr. 19; v. 285; p. 404.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,374,937; Apr. 19; v. 285; p. 404.
McIntyre, Elmer E., Pittsburgh, Pa. Interchangeable hub for motor-vehicles. No. 1,375,223; Apr. 19; v. 285; p. 460.
McKee, Ralph H., New York, N. Y. Extracting oils, fats, and fatty acids. No. 1,376,211; Apr. 26; v. 285; p. 680.
McKenzie, William H., Oakland, Calif. Valve-testing machine. No. 1,373,824; Apr. 5; v. 285; p. 87.
McKeone, John J., Washington, Iowa. Flue-block. No. 1,375,925; Apr. 26; v. 285; p. 626.
McKinnon, Allan, Holyoke, Mass. Lubricating means for trolley-wheels. No. 1,375,525; Apr. 19; v. 285; p. 517.

McKissick, William H., Tulsa, Okla., assignor of one-half to Dunn Manufacturing Company, Oxnard, Calif. Tubing catcher or holder. No. 1,374,307; Apr. 12; v. 285; p. 220.
McLain, Robert M., and W. M. Quick, Huntsville, Ala., assignors to the Quick-McLain Machine Gun Company. Machine-gun. No. 1,375,653; Apr. 19; v. 285; p. 542.
McLaughlin, Frank, Toronto, Ontario, Canada. Fountain lather-brush. No. 1,375,404; Apr. 19; v. 285; p. 494.
McLeod, Hector N., Wellington, New Zealand. Carbonizing apparatus. No. 1,375,714; Apr. 26; v. 285; p. 586.
McMinn, Ezekiel W., Richmond, Va. Tow-bar. No. 1,375,056; Apr. 19; v. 285; p. 428.
McNairy, Jacob W., Lynn, Mass., assignor to General Electric Company. Flow-meter. No. 1,373,899; Apr. 5; v. 285; p. 101.
McNeely, Carl, assignor of one-third to C. L. Ayres, Polk, Nebr. Radiator. No. 1,374,021; Apr. 5; v. 285; p. 125.
McNeil, Chester, assignor to Union Special Machine Company, Chicago, Ill. Concealed-stitched binding for sewed articles. No. 1,374,211; Apr. 12; v. 285; p. 202.
McNeill, William M., assignor of one-half to B. M. Sheffey, Rosiclare, Ill. Soot-blower. No. 1,373,750; Apr. 5; v. 285; p. 71.
McNulty, Daniel H., Jr., assignor of one-half to W. Prentiss, Jr., Chicago, Ill. Coating-machine. No. 1,374,938; Apr. 19; v. 285; p. 404.
McPhee, Angus D. (See Pierce, H. T., and McPhee.)
McPhilliamy, Burton, Vandergrift, Pa. Front hub and spindle construction for automobiles. No. 1,374,597; Apr. 12; v. 285; p. 277.
McRee, Hilliary B., Palmetto, Fla. Gas and oil vending device. No. 1,375,526; Apr. 19; v. 285; p. 518.
McSheehy, Bartholomew E., assignor to J. C. Blair Company, Huntingdon, Pa. Expansible ledger-file. No. 1,375,794; Apr. 26; v. 285; p. 600.
McWane, Charles W. (See Viar, Raymond P., assignor.)
McWane, James B., Birmingham, Ala. Pouring metal in the formation of cast-iron pipes. No. 1,374,750; Apr. 12; v. 285; p. 306.
MacDonagh, Frank L., assignor to Acme Card System Company, Chicago, Ill. Visible index. No. 1,375,464; Apr. 19; v. 285; p. 506.
Macdonald, Angus S., Great Neck Station, N. Y., and H. P. Macdonald, Montclair, N. J., assignor to The Snead & Co. Iron Works, Jersey City, N. J. Method of and apparatus for heat-treating structural members. No. 1,376,106; Apr. 26; v. 285; p. 661.
Macdonald, Harry P. (See Macdonald, Angus S. and H. P.)
Macdonald, Harry P., Montclair, assignor to The Snead & Co. Iron Works, Jersey City, N. J. Flexible joint. No. 1,376,107; Apr. 26; v. 285; p. 661.
MacGregor, Peter, and A. Balfour, Sheffield, England. Steel. No. 1,375,255; Apr. 19; v. 285; p. 466.
MacIsaac, Albert H., and T. Champagne, Toronto, Ontario, Canada. Valve. No. 1,374,308; Apr. 12; v. 285; p. 221.
Mack, Charles D., Cooley, Ariz. Unloading attachment for cars. No. 1,373,623; Apr. 5; v. 285; p. 47.
MacKenzie, Cyrus W., Waverly, Ind. Milk aerator and cooler. No. 1,374,309; Apr. 12; v. 285; p. 221.
Mackenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Channel-opening device for fastening-inserting machines. No. 1,375,795; Apr. 26; v. 285; p. 600.
Mackenzie, Fred L., Beverly, and G. Goddu, Winchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-guide. No. 1,375,796; Apr. 26; v. 285; p. 600.
MacLewee, Carrie H. (See MacLewee, William S., assignor.)
MacLewee, William S., assignor to C. H. MacLewee, Trenton, N. J. Lamp-adjuster. No. 1,375,224; Apr. 19; v. 285; p. 460.
Macpherson, Robert, Brondesbury, and W. E. Heys, Bushey, England. Manufacture of detersive and emulsive agents. No. 1,373,900; Apr. 5; v. 285; p. 102.
Macy, R. H., & Co. (See Von Kersburg, Harry E., assignor.)
Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Agricultural implement. No. 1,375,854; Apr. 26; v. 285; p. 612.
Madrak, Frank, Duryea, Pa. Trolley-wire holder. No. 1,375,599; Apr. 19; v. 285; p. 531.
Madsen, Soren, New York, N. Y. Liquid-vending apparatus and coin-actuated mechanism. No. 1,375,639; Apr. 19; v. 285; p. 579.
Magin, Francis W., assignor to Industrial Controller Company, Milwaukee, Wis. Resistance-box. No. 1,373,825; Apr. 5; v. 285; p. 87.
Magor Car Corporation. See Cartzdafner, Roy E., assignor.)
Magor Car Corporation. (See Cartzdafner, R. E., and Ketcham, assignors.)
Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville, Paris, France. Ignition apparatus for aviation-engines. No. 1,375,256; Apr. 19; v. 285; p. 466.
Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Process and apparatus for making battery-electrodes. No. 1,375,305; Apr. 19; v. 285; p. 476.
Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Battery-electrode. No. 1,375,306; Apr. 19; v. 285; p. 476.
Major, Thomas H. (See Coombs, James W., assignor.)
Malott, Watson H., San Francisco, Calif. Windshield-shade. No. 1,375,164; Apr. 19; v. 285; p. 449.
Manning, Maxwell & Moore. (See Crocker, Ernest B., assignor.)
Manoilovich, Nicholas D. (See Thorne, H., and Manoilovich.)
Mansel, Paul, Charlottenburg, near Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, Germany. Electric clock. No. 1,373,517; Apr. 5; v. 285; p. 27.
Marathon Electric Mfg. Company. (See Kimble, Austin, assignor.)
Marcus, Charles, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Dynamo-electric apparatus. No. 1,373,901; Apr. 5; v. 285; p. 102.
Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Doll's head and eyes therefor. No. 1,373,439; Apr. 5; v. 285; p. 11.
Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Doll's head and eyes therefor. No. 1,373,440; Apr. 5; v. 285; p. 12.
Marder, Clarence C., New York, N. Y., assignor to American Type Founders Company, Jersey City, N. J. Type fractions and use. No. 1,375,307; Apr. 19; v. 285; p. 476.
Marinsky, Davis, New York, N. Y. Protector for the tread members of shoes. No. 1,375,101; Apr. 19; v. 285; p. 437.
Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
Markham, Charles M., Milwaukee, Wis. Concrete salvage jack-head. No. 1,374,598; Apr. 12; v. 285; p. 277.
Marks, Isidore, Dorchester, Mass. Eyes for dolls. No. 1,374,212; Apr. 12; v. 285; p. 202.
Marple, Rollo. (See Wright, William E., assignor.)
Marquardt, Frank C., Brooklyn, assignor to American Bank Note Company, New York, N. Y. Plate-registering mechanism for printing-machines. No. 1,374,859; Apr. 12; v. 285; p. 327.
Marsa, Melchor, New York, assignor to International Cork Company, Brooklyn, N. Y. Cork-cutting machine. No. 1,374,022; Apr. 5; v. 285; p. 125.
Marshall, Guy, Calgary, Alberta, Canada. Seat construction for farming-machines. No. 1,375,225; Apr. 19; v. 285; p. 460.
Marten, George C., Effingham, Ill. Combination-tool. No. 1,374,751; Apr. 12; v. 285; p. 306.
Martin, Hugh E., Madison, Wis. Sanitary flytrap. No. 1,373,441; Apr. 5; v. 285; p. 12.
Martin, Jesse S., Reidsville, N. C. Automobile-wheel attachment. No. 1,374,939; Apr. 19; v. 285; p. 405.
Martin, Junius A., and R. L. Lee; said Lee assignor, by mesne assignments, of his right to Carrolina Automatic Machinery Company, Durham, N. C. Cutting attachment for hosiery-looping machines. No. 1,374,940; Apr. 19; v. 285; p. 405.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,373,624; Apr. 5; v. 285; p. 47.
Martin, Truman J., Allentown, Pa. Auto-hood antirattling device. No. 1,375,257; Apr. 19; v. 285; p. 466.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for testing capacity of electric conductors. No. 1,375,405; Apr. 19; v. 285; p. 495.
Martinek, Stanley A., Amarillo, Tex. Priming-cup. No. 1,373,625; Apr. 5; v. 285; p. 47.
Marvel, Edward W., Philadelphia, Pa. Changeable-combination key-lock. No. 1,374,310; Apr. 12; v. 285; p. 221.
Marvin, W. B., Manufacturing Company, The. (See Cook, A. F., and Reed, assignors.)
Marzak, Frank, assignor of one-half to A. Samokiszczuk, Brooklyn, N. Y. Folding chair. No. 1,374,213; Apr. 12; v. 285; p. 202.
Masser, Jesse R., assignor to Turbine Auto Washer Company, Three Rivers, Mich. Washing and scrubbing brush. No. 1,375,102; Apr. 19; v. 285; p. 437.
Masson, James M., Duluth, Minn. Method of and bath for retting fibrous straw. No. 1,374,941; Apr. 19; v. 285; p. 405.
Mather, Joseph C. (See Neumann, M. J., and Mather.)
Mathes, John A., San Diego, Calif. Educational appliance. No. 1,375,308; Apr. 19; v. 285; p. 477.
Mathot, Rodolphe E., Brussels, Belgium. Fuel-supply regulator for internal-combustion engines. No. 1,373,666; Apr. 5; v. 285; p. 55.
Matsumura, Yoshio, Tokyo, Japan. Diving apparatus. No. 1,375,715; Apr. 26; v. 285; p. 586.
Matteoli, William M. (See De Martin, C. L., Matteoli and Arbuckle.)
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor clamp and support. No. 1,373,751; Apr. 5; v. 285; p. 71.
Matthews, Harry, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for dynamo-electric machines. No. 1,374,511; Apr. 12; v. 285; p. 261.

Matthews, Phillip E., Plainfield, N. J. Automatic pawl-throw for magnetos or the like. No. 1,376,024; Apr. 26; v. 285; p. 645.
Matthews, Ralph R. (See Crosby, P. A., Matthews, and High.)
Maule, Harvey G., Seattle, assignor of one-half to R. A. Pearce, King county, Wash. Safety fire-stop valve. No. 1,373,902; Apr. 5; v. 285; p. 102.
Maxwell, Clarence R., Los Angeles, Calif. Electric Metallic window-curtain. No. 1,374,670; Apr. 12; v. 285; p. 291.
Maxwell, Roy J., Butler, Ind. Hog-feeder. No. 1,375,165; Apr. 19; v. 285; p. 449.
May, Charles, New Britain, Conn. Vending-machine. No. 1,375,226; Apr. 19; v. 285; p. 460.
May, Sellers C., Troy, Ala. Peanut-harvester. No. 1,375,258; Apr. 19; v. 285; p. 466.
Mayer, Carl H., Chicago, Ill. Indicator for player-pianos and similar instruments. No. 1,373,752; Apr. 5; v. 285; p. 71.
Mayer, Heinrich, G. Schlatter, and A. Baltensweiler, assignors to Firm of Adolph Saurer, Arbon, Switzerland. Road-sprinkler. No. 1,376,108; Apr. 26; v. 285; p. 661.
Mayer, Walter S. (See Lewis, H. G., and Mayer.)
Mayhew, Edna, Great Bend, Kans. Bookstand. No. 1,376,212; Apr. 26; v. 285; p. 681.
Mayhew, Edward A., assignor to Union Metal Products Company, Chicago, Ill. Car-door. No. 1,374,461; Apr. 12; v. 285; p. 251.
Maynard, Armond J., Waterbury, Conn. Submarine grapple. No. 1,374,512; Apr. 12; v. 285; p. 261.
Mazuryk, Bartlomiej, Tugaske, Saskatchewan, Canada. Driving mechanism. No. 1,374,214; Apr. 12; v. 285; p. 202.
Mead, Howard H., Quincy, Mich. Steam-trap. No. 1,376,214; Apr. 26; v. 285; p. 681.
Meaker Galvanizing Company. (See Miller, Constantine G., assignor.)
Mee, Charles, assignor of three-tenths to F. Keiper, Rochester, N. Y. Automobile-mirror. No. 1,376,377; Apr. 26; v. 285; p. 712.
Meeker, John A., Potsdam, N. Y. Butter-fat cage. No. 1,375,057; Apr. 19; v. 285; p. 428.
Megquier, Bertelow W., Butte, Mont. Attachment for closed can. No. 1,374,752; Apr. 12; v. 285; p. 307.
Meier, Hans. (See Bodmer, Gottfried, assignor.)
Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Range-indicator. No. 1,373,442; Apr. 5; v. 285; p. 12.
Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Testing-stand for gyroscopes. No. 1,374,162; Apr. 5; v. 285; p. 151.
Melin, Frank O., assignor of one-half to L. H. Peterson, Omaha, Nebr. Vulcanizer. No. 1,376,149; Apr. 26; v. 285; p. 669.
Mellor, Robert W., Girard, Ohio. Air-chill for vehicle-tires. No. 1,374,382; Apr. 12; v. 285; p. 235.
Melvin, Odum T., St. Andrews, Fla. Fishing-net buoy. No. 137,942; Apr. 19; v. 285; p. 405.
Melvin, Odum T., St. Andrews, Fla. Buoy. No. 1,374,943; Apr. 19; v. 285; p. 405.
Melvin, William, Wilmington, Del. Safety mechanism for elevators. No. 1,375,227; Apr. 19; v. 285; p. 461.
Mendenhall, Austin A., Duluth, Minn. Cushioned wheel. No. 1,374,753; Apr. 12; v. 285; p. 307.
Mengel, Charles C., Louisville, Ky. Box-stitching machine. No. 1,373,753; Apr. 5; v. 285; p. 72.
Merideth, Doss A., Prague, Okla. Adjustable vehicle-seat. No. 1,375,058; Apr. 19; v. 285; p. 428.
Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Agitator. No. 1,375,406; Apr. 19; v. 285; p. 495.
Merrell-Soule Company. (See Merrell, Irving S., assignor.)
Messmer, Adolph U., Minneapolis, Minn. Casein glue. No. 1,373,518; Apr. 5; v. 285; p. 28.
Mestre, Harold, San Francisco, Calif. Table-seat. No. 1,375,166; Apr. 19; v. 285; p. 449.
Metalform Construction Corporation. (See Rashkovsky, Samuel, (now, by judicial change of name, Samuel Raskin,) assignor.)
Metcalf, Alpha H., assignor to H. A. Allen & Company, Attleboro, Mass. Soft-collar holder. No. 1,374,311; Apr. 12; v. 285; p. 221.
Metcalf, Alpha H., assignor to H. A. Allen & Company, Attleboro, Mass. Soft-collar holder. No. 1,374,312; Apr. 12; v. 285; p. 221.
Metcalf, George R., *et al.* (See Cox, John W., assignor.)
Metropolitan-Vickers Electrical Company. (See Baumann, Karl, assignor.) (Reissue.)
Metzner, Edward. (See Brauner, P., and Metzner.)
Meyenberg, William H., Lemont, assignor to J. J. Bleadon, Chicago, Ill. Electromedical apparatus. No. 1,376,378; Apr. 26; v. 285; p. 712.
Meyer, Alfred E., Cincinnati, Ohio. Signal system. No. 1,375,059; Apr. 19; v. 285; p. 429.
Meyer, August R. (See Schneider, L. A., and Meyer.)
Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Drawer-locking mechanism for trunks. No. 1,374,383; Apr. 12; v. 285; p. 235.
Meyer, George, Vandyne, Wis. Lightning-rod connector. No. 1,373,519; Apr. 5; v. 285; p. 28.
Meyer, Ralph F., Freeport, Pa. Clay-press. No. 1,373,903; Apr. 5; v. 285; p. 102.
Meyfarth, John L., Brooklyn, N. Y. Coffee-urn. No. 1,376,287; Apr. 26; v. 285; p. 695.
Mezzerl, Giovanni C., Virden, Ill. Reed-protecting device. No. 1,376,213; Apr. 26; v. 285; p. 681.
Michelin, André J., Paris, assignor to Michelin & Cie, Clermont-Ferrand, France. Demountable wheel. No. 1,376,390; Apr. 26; v. 285; p. 714.
Michelin & Cie. (See Michelin, André J., assignor.)
Miclaush, Alexander, Cleveland, Ohio. Oil-stove. No. 1,375,600; Apr. 19; v. 285; p. 531.
Middleton, Percy R., Los Angeles, Calif., assignor of one-half to J. C. Lalor, New York, N. Y. Roasting ores or concentrates. No. 1,376,025; Apr. 26; v. 285; p. 645.
Miegel, Charles W., Jersey City, N. J. Tire-casing. No. 1,375,527; Apr. 19; v. 285; p. 518.
Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
Mikulecky, Vaclav, Verdigre, Nebr. Mud-grip for automobile-wheels. No. 1,375,716; Apr. 26; v. 285; p. 586.
Millard, Charles C., O'Neill, Nebr. Roofing. No. 1,376,215; Apr. 26; v. 285; p. 681.
Miller, Albert F., Kansas City, Kans. Joint-lock. No. 1,376,150; Apr. 26; v. 285; p. 669.
Miller, Albert P., Newcastle, Ind. Clamp-dog. No. 1,376,026; Apr. 26; v. 285; p. 645.
Miller, Constantine G., assignor to Meaker Galvanizing Company, Chicago, Ill. Electrogalvanizing-machine. No. 1,375,309; Apr. 19; v. 285; p. 477.
Miller, Edward F., Blaco, Kans. Straw-distributer for harvester-threshers. No. 1,373,667; Apr. 5; v. 285; p. 55.
Miller, Emil B., Schulenburg, Tex. Liquid-dispensing apparatus. No. 1,376,348; Apr. 26; v. 285; p. 707.
Miller, Ernest W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Valve mechanism. No. 1,376,109; Apr. 26; v. 285; p. 661.
Miller, Frank E., New York, N. Y. Electrical system for producing musical tones. No. 1,376,288; Apr. 26; v. 285; p. 695.
Miller, Frank P., Meadville, Pa. Adjustable hand-reamer. No. 1,374,754; Apr. 12; v. 285; p. 307.
Miller, Fred W., Kenmore, assignor to Climax Cabinet Company, Inc., Buffalo, N. Y. Piano-player-roll container. No. 1,374,462; Apr. 12; v. 285; p. 251.
Miller, Henry. (See Smith, R. S., Audren, and Miller.)
Miller, Jacob H., San Luis Obispo, Calif. Tire-retreading apparatus and retreading tire-casings. No. 1,375,528; Apr. 19; v. 285; p. 518.
Miller, James C., Pittsburgh, and A. Isles, Swissvale, Pa., assignors to The W. R. Miller Company. Gas-producer. No. 1,373,443; Apr. 5; v. 285; p. 12.
Miller, James M., Jersey City, N. J. Valve for controlling the flow of fluids and gases under pressure. No. 1,374,860; Apr. 12; v. 285; p. 327.
Miller, John A., Homewood, Ill. Pleasure-railway structure. No. 1,373,754; Apr. 5; v. 285; p. 72.
Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Circular-knitting machine. No. 1,374,163; Apr. 5; v. 285; p. 151.
Miller, Minnie, administratrix. (See Miller, William G.)
Miller, Minnie, *et al.* (See Miller, William G., assignor.)
Miller, Ralph, Boulder, Colo. Animal-stall. No. 1,373,904; Apr. 5; v. 285; p. 102.
Miller, Royal R., assignor, by mesne assignments, to Miller Traction Tread Company, Chicago, Ill. Tractor-wheel. No. 1,373,905; Apr. 5; v. 285; p. 102.
Miller, Rudolph W., assignor to Orange Contracting & Milling Co., Orange, Calif. Combination lunch-kit and folding table. No. 1,376,027; Apr. 26; v. 285; p. 646.
Miller Saw-Trimmer Company. (See Cope, Charles G., assignor.)
Miller Traction Tread Company. (See Miller, Royal R., assignor.)
Miller, W. R., Company, The. (See Miller, J. C., and Isles, assignors.)
Miller, William C. J., Philadelphia, Pa. Combined window shade and curtain fixture. No. 1,376,386; Apr. 26; v. 285; p. 713.
Miller, William G., deceased, by M. Miller, administratrix, assignor to C. M. Hardenbergh, H. Vilm, P. Pandemvalvy, and M. Miller, Kansas City, Mo. Device for aerating and maturing flour. No. 1,376,110; Apr. 26; v. 285; p. 662.
Miller, William H., Canton, Ohio. Water-bottle. No. 1,374,088; Apr. 5; v. 285; p. 138.
Mills Belt Company. (See Batchelder, Frank R., assignor.)
Mills, Herbert S. (See Sandell, Henry K., assignor.)
Minehart, Irvin U., Coggon, Iowa. Door-catch. No. 1,374,215; Apr. 12; v. 285; p. 203.
Miner, William H. (See O'Connor, John F., assignor.)
Minerals Separation North American Corporation. (See Cole, David, assignor.)
Minerals Separation North American Corporation. (See Faul, C., and Lavers, assignors.)
Minerals Separation North American Corporation. (See Scott, Walter A., assignor.)
Minne, John P., Cosmopolis, Wash. Compound for treatment of smut. No. 1,375,529; Apr. 19; v. 285; p. 518.
Minor, Frank W., Richmond, Va. Reproducer. No. 1,375,407; Apr. 19; v. 285; p. 495.
Minor, Frank W., Richmond, Va. Resonator-dome for reproducers. No. 1,375,408; Apr. 19; v. 285; p. 495.

Mitchel, Charles H. (See Davis, G. H., and Mitchell.)
Mitchell-Bissell Co. (See Cass, Freeman, assignor.)
Mitchell, Eva R., Worcester, Mass. Safety crochet-needle. No. 1,376,151; Apr. 26; v. 285; p. 669.
Mittinger, George E., Youngstown, Ohio. Three-piece metallic shipping-barrel. No. 1,376,216; Apr. 26; v. 285; p. 681.
Miyasaki, Kan, Los Angeles, Calif. Wrapping device. No. 1,375,797; Apr. 26; v. 285; p. 601.
Modernola Company. (See Friedline, William H., assignor.)
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing-machines. No. 1,374,216; Apr. 12; v. 285; p. 203.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Looper-supporting mechanism for sewing-machines. No. 1,375,531; Apr. 19; v. 285; p. 518.
Moffett, Harry, Lincoln, Ill. Wire-fence machine. No. 1,376,217; Apr. 26; v. 285; p. 681.
Mohawk Carpet Mills. (See Lea, Charles, assignor.)
Moine, Selest E., Lubbock, Tex. Vignetting attachment for multiple-exposure cameras. No. 1,373,626; Apr. 5; v. 285; p. 48.
Moline, Charles G., Wyandotte, Mich. Wrench. No. 1,375,530; Apr. 19; v. 285; p. 518.
Moller, Edvard M. (See Benedict, H. A., and Moller.)
Molyneux, George E., Bayonne, N. J. Stopping mechanism for sewing-machines. No. 1,373,755; Apr. 5; v. 285; p. 72.
Monckton, Sawyer Y., San Francisco, Calif. Excavating-machine. No. 1,375,798; Apr. 26; v. 285; p. 601.
Moncrieff, Veon I., Indianapolis, Ind. Internal-combustion engine. No. 1,374,313; Apr. 12; v. 285; p. 221.
Montag, Charles, *et al.* (See Park, George I., assignor.)
Montgomery, Roscoe C., Brooklyn, assignor of one-half to J. R. Lettenberger, Jr., Woodhaven, N. Y. Tire-holder. No. 1,374,089; Apr. 5; v. 285; p. 138.
Moody, Joseph E., Chicago, Ill. Means for forming concrete-pipe sections. No. 1,376,349; Apr. 26; v. 285; p. 707.
Moon, Frank, Oakland, assignor to Moon-Tractor Co., San Francisco, Calif. Tractor-carriage. No. 1,374,384; Apr. 12; v. 285; p. 235.
Moon-Tractor Co. (See Moon, Frank, assignor.)
Moore, Charles R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for converting sound or other vibrations into variations in an electrical circuit. No. 1,375,465; Apr. 19; v. 285; p. 506.
Moore, Ernest V., Montreal, Quebec, Canada. System of handling peat. No. 1,373,627; Apr. 5; v. 285; p. 48.
Moore, George A., Medford, Mass. Sound-box. No. 1,375,409; Apr. 19; v. 285; p. 495.
Moore, James E. A. (See Peck, F. A., and Moore.)
Moore, Lewis B. (See Faubion, James C., assignor.)
Moore, Stuart B., assignor to Texas Concrete Construction Company, Houston, Tex. Floor system. No. 1,376,152; Apr. 26; v. 285; p. 669.
Moore, Van Zandt, M., Cleveland Heights, Ohio. Vehicle-wheel. No. 1,375,717; Apr. 26; v. 285; p. 586.
Moore, Van Zandt, M., Cleveland, Ohio. Vehicle-wheel. No. 1,375,718; Apr. 26; v. 285; p. 587.
Moore, Vernon B., Asheville, N. C. Machine construction. No. 1,374,599; Apr. 12; v. 285; p. 278.
Moore, William, St. Paul, Minn. Insecticide. No. 1,376,153; Apr. 26; v. 285; p. 669.
Moore, William E., Chicago, Ill., assignor, by mesne assignments, to International Earth Boring Machine Corporation. Earth-boring machine. No. 1,375,640; Apr. 19; v. 285; p. 539.
Morant, Noel W., New Orleans, La. Support for protective coverings. No. 1,376,218; Apr. 26; v. 285; p. 682.
Morier, Henri, Killingly, Conn. Fastening device for packages. No. 1,374,023; Apr. 5; v. 285; p. 125.
Morize, Ernest, Boulogne-sur-Seine, France. Propelling device for use on vehicles, marine vessels, or aircraft. No. 1,375,601; Apr. 19; v. 285; p. 531.
Morkrum Company. (See Krum, Charles L. and H. L., assignors.)
Morrill, Ernest L. (See Spenard, Napoleon, assignor.) (Reissue.)
Morris, Joshua M., Rochester, N. Y. Electrical lighting device for cigars and the like. No. 1,376,154; Apr. 26; v. 285; p. 670.
Morris, William L. (See Booth, W. K., and Morris.)
Morrison, George D., Louisville, Ky. Signal and registering mechanism for well-drilling rigs. No. 1,375,410; Apr. 19; v. 285; p. 495.
Morrison, William F., Vallejo, Calif. Rail-clamp. No. 1,375,310; Apr. 19; v. 285; p. 477.
Morse, Robert V., Ithaca, N. Y. Bomb-dropping system. No. 1,374,314; Apr. 12; v. 285; p. 222.
Morton, John R., League City, Tex. Garment-hanger. No. 1,374,024; Apr. 5; v. 285; p. 126.
Morton, Richard D., Compton, Calif. Running-gear for vehicles. No. 1,375,311; Apr. 19; v. 285; p. 477.
Mosher, Grace, *et al.* (See Gregory, William F., assignor.)
Mosher, John A., and W. H. Townsend, Wellington, Ohio. Velocipede. No. 1,374,513; Apr. 12; v. 285; p. 261.
Mossberg, Frank, Company. (See Tuttle, Walter I., assignor.)
Motteau, Antime, Buenos Aires, Argentina. Metallic curtain. No. 1,374,514; Apr. 12; v. 285; p. 261.
Mueller Metals Company. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau, assignors.)
Mueller Metals Company. (See Heiby, C. G., Hill, and Lindquist, assignors.)
Mueller, Paul F., Norfolk, Va., assignor to Norfolk Power Appliance Corporation. Transmission mechanism. No. 1,374,154; Apr. 5; v. 285; p. 150.
Muhlbach, Herman C., assignor to International Motor Company, New York, N. Y. Wheel. No. 1,374,217; Apr. 12; v. 285; p. 203.
Mulford, H. K., Company. (See Pittinger, Paul S., assignor.)
Müller, Enrique, El Paso, Tex. Filtering material. No. 1,375,532; Apr. 19; v. 285; p. 519.
Muller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Machine for and method of milling blanks for cutters. No. 1,376,155; Apr. 26; v. 285; p. 670.
Mullins, Frank M., Havelock, New Brunswick, Canada. Fastener. No. 1,374,025; Apr. 5; v. 285; p. 126.
Mullins, Fred J., Pittsburg, assignor to T. F. Booth Co., San Francisco, Calif. Fish-stringer. No. 1,373,826; Apr. 5; v. 285; p. 87.
Mulvehill, John D., Seattle, Wash. Indicating-signal for automobiles. No. 1,374,944; Apr. 19; v. 285; p. 405.
Munhollon, Frank, Cleveland, Ohio. Brick-kiln. No. 1,375,719; Apr. 26; v. 285; p. 587.
Muñiz, Jesus B., Habana, Cuba. Signaling device for vehicles. No. 1,375,720; Apr. 26; v. 285; p. 587.
Munning-Loeb Company. (See Taylor, F. P., and Hall, assignors.)
Munteanu, George. (See Berecky, W., and Monteanu.)
Munter, Charles, New York, N. Y. Garment and stay therefor. No. 1,376,219; Apr. 26; v. 285; p. 682.
Münz, Friedrich, Stuttgart, Germany. Voltage-regulator for electric dynamos. No. 1,373,520; Apr. 5; v. 285; p. 28.
Murdoch, Wm. C., Jr., *et al.* (See Wann, John T., assignor.)
Murphy, Clifford T., Los Angeles, Calif., assignor to Columbia Carburetor Company. Carbureter. No. 1,376,156; Apr. 26; v. 285; p. 670.
Murphy, Dennis J., Hog Island, Pa. Kerosene-emulsion composition. No. 1,374,755; Apr. 12; v. 285; p. 307.
Murphy Engineering Company. (See Murphy, Peter W., assignor.)
Murphy, P. C., Trunk Company. (See Witbeck, Desford, assignor.)
Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Multiple head and valve housing. No. 1,374,315; Apr. 12; v. 285; p. 222.
Murphy, Walter P. (See Bonsall, Charles D., assignor.)
Murray Company, The. (See Henry, Nelson B., assignor.)
Murray, Ed., Lincoln, Nebr. Controlling subterranean streams. No. 1,374,945; Apr. 19; v. 285; p. 406.
Musgrave, William Z., Atlanta, Ga. Changeable exhibitor. No. 1,374,756; Apr. 12; v. 285; p. 307.
Mussehl, Frank E., Lincoln, Nebr. Daylight egg-candler. No. 1,373,969; Apr. 5; v. 285; p. 116.
Myers, Bert L., Jackson, Mich. Stock-feeding-tank heater. No. 1,375,533; Apr. 19; v. 285; p. 519.
Myers, Charles E., assignor, by mesne assignments, to Acme Lock Stitch Sewing Machine Company, St. Louis, Mo. Stitching-machine. No. 1,375,411; Apr. 19; v. 285; p. 496.
Myers, Elmer E. (See Bloxsom, J. J., and Myers.)
Nadig, Lawrence F., Quakertown, Pa. Vehicle-lift. No. 1,376,157; Apr. 26; v. 285; p. 670.
Nakaisumi, Chihiro, Tokyo, Japan. Rolling stamp. No. 1,374,090; Apr. 5; v. 285; p. 138.
Nall, Edith A., executrix. (See Nall, Edward.)
Nall, Edward, deceased, by E. A. Nall, executrix, assignor to The Goodyear Tire and Rubber Co., Akron, Ohio. Machine for the manufacture of asbestos gaskets. No. 1,374,463; Apr. 12; v. 285; p. 251.
Nall, Frederic W., Cincinnati, Ohio. Roller-skates. No. 1,374,464; Apr. 12; v. 285; p. 251.
Napier, Charles H., Macon, Ga. Catapult. No. 1,374,757; Apr. 12; v. 285; p. 307.
Napier, D., & Son Limited. (See Rowledge, Arthur J., assignor.)
Nash, Palmer, Colfax, N. D. Driving mechanism for speedometers. No. 1,375,009; Apr. 19; v. 285; p. 418.
Nathan, Sylvester M., Fitchburg, Mass. Clip for pens, pencils, and similar instruments. No. 1,374,515; Apr. 12; v. 285; p. 261.
National Acme Company, The. (See Smith, Oscar A., assignor.)
National Biscuit Company. (See Bergen, Martin H., assignor.)
National Carbon Company. (See Benner, R. C., and French, assignors.)
National Carbon Company. (See Ellis, C., and Wells, assignor.)
National Carbon Company. (See Graff, David L., assignor.)
National Carbon Company. (See Hambuechen, Carl, assignor.)
National Carbon Company. (See Haselett, Clarence W., assignor.)
National Carbon Company. (See Vreeland, George V. C., assignor.)

National Life Preserver Company. (See Youngren, O. A., and Watt, assignors.)
National Lock-In-Tank Company. (See Klopfenstein, Robert S., assignor.)
National Machine Company. (See Weatherly, S. M., and Stach, assignors.)
National Motor Control Co. (See Barnes, Orange P., assignor.)
Nebergall, Loran E., Omaha, Nebr. Deep-well-drilling device. No. 1,374,946; Apr. 19; v. 285; p. 406.
Needham, Edward F., Houston, Tex., assignor of one-half to J. D. Hall. Wall construction. No. 1,375,103; Apr. 19; v. 285; p. 437.
Needham, George H., assignor of one-half to G. J. Needham, Newark, N. J. Illuminated license-plate. No. 1,376,220; Apr. 26; v. 285; p. 682.
Needham, George J. (See Needham, George H., assignor.)
Needham, Joseph, New York, N. Y. High-pressure governor-valve. No. 1,373,906; Apr. 5; v. 285; p. 103.
Negromanti, Antonangelo, Milan, Italy. Device for heating by electricity. No. 1,374,091; Apr. 5; v. 285; p. 138.
Neikirk, John O., Lombard, assignor to Rodger Ballast Car Company, Chicago, Ill. Door-operating mechanism. No. 1,374,516; Apr. 12; v. 285; p. 262.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Swill-distributer. No. 1,373,521; Apr. 5; v. 285; p. 28.
Nelson, George G., Turlock, Calif. Body for dumping-trucks. No. 1,373,628; Apr. 5; v. 285; p. 48.
Nelson, Harry H., assignor of one-half to P. A. Nelson, Minneapolis, Minn. Bracket for curtain-poles. No. 1,374,026; Apr. 5; v. 285; p. 126.
Nelson, Henry, Beloit, Wis. Wheel-drive. No. 1,375,259; Apr. 19; v. 285; p. 466.
Nelson, John, and R. Watson, Pasadena, Calif. Combined fence, plant-protector, and insect-destroyer. No. 1,373,827; Apr. 5; v. 285; p. 87.
Nelson, John W., Norwood, Mass. Spark-plug. No. 1,375,926; Apr. 26; v. 285; p. 626.
Nelson, Nels A., *et al.* (See Corbett, George W., assignor.)
Nelson, Peter A. (See Nelson, Harry H., assignor.)
Nenneker, George F., LaPorte, Ind. Tuning attachment for wind musical instruments. No. 1,374,758; Apr. 12; v. 285; p. 308.
Nethercutt, Charles A., Logansport, Ind. Antiskid device for tires. No. 1,375,534; Apr. 19; v. 285; p. 519.
Neukirchen, Peter, assignor to Columbia Fastener Company, Chicago, Ill. Combined dispensing-receptacle and spreader. No. 1,373,566; Apr. 5; v. 285; p. 37.
Neumann, Martin J., and J. C. Mather, Oshkosh, Wis. Car-door fastening and releasing device. No. 1,376,350; Apr. 26; v. 285; p. 707.
Neumann, R., Hardware Co., The. (See Lotz, William A., assignor.)
New Departure Manufacturing Company, The. (See Pagé, Victor W., assignor.)
New Jersey Can Company. (See Kashinsky, John, assignor.)
New Jersey Foundry & Machine Company. (See Hescock, Ethan N., assignor.)
New Jersey Zinc Company, The. (See Borcherdt, Walter O., assignor.)
New, Thomas E., assignor to The Precision Equipment Company, Cincinnati, Ohio. Manicure instrument. No. 1,375,167; Apr. 19; v. 285; p. 449.
Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Conveying mechanism. No. 1,375,060; Apr. 19; v. 285; p. 429.
Newell, Edgar, Irwin, Pa. Band-saw guide. No. 1,374,600; Apr. 12; v. 285; p. 278.
Newell, James E. (See Ingram, Sleeper T., assignor.)
Newell, Robert C., *et al.* (See Wann, John T., assignor.)
Newhall, Henry B., Jr., executor. (See Karitzky, John, assignor.)
Newhall, Henry B., Jr., executor. (See Sherwood, D. R., and Karitzky, assignors.)
Newhall, Henry W., Jr., executor. (See Pleister, Henry W., assignor.)
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-vehicle and driving same. No. 1,374,947; Apr. 19; v. 285; p. 406.
Newton, Leonard V. (See Willis, G. M., and Newton.)
Nicholas, Oley G., Sioux City, Iowa. Concrete-building form. No. 1,373,523; Apr. 5; v. 285; p. 28.
Nichols, Edgar B., Rochester, N. Y. Toy. No. 1,375,721; Apr. 26; v. 285; p. 587.
Nichols, William H., Pittsburgh, Pa. Making chilled rolls. No. 1,374,517; Apr. 12; v. 285; p. 262.
Nicholson, Soterios. (See Souliotis, Kyrinkos, assignor.)
Nicholson, William R., assignor of one-half to C. E. V. Smith, Beaver City, Nebr. Attachment for windmill-operated pumps. No. 1,374,385; Apr. 12; v. 285; p. 235.
Nickol, Frederick C., assignor to City Machine & Tool Works, Dayton, Ohio. Machine for forming armature-coils. No. 1,373,522; Apr. 5; v. 285; p. 28.
Nicol, John, Los Angeles, Calif. Clamp. No. 1,375,312; Apr. 19; v. 285; p. 477.
Nielsen, Marius J., Vesterraaby, Denmark. Feed-roll for grain and seed cleaning machines or the like. No. 1,375,228; Apr. 19; v. 285; p. 461.
Nielsen, Niels D., Elyria, Ohio. Fluid-agitating apparatus. No. 1,375,168; Apr. 19; v. 285; p. 449.
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Nobbs, George H., Quincy, assignor to The Phonoharp Company, East Boston, Mass. Airplane-velocipede. No. 1,373,444; Apr. 5; v. 285; p. 13.
Noble, William P., Detroit, Mich. C. O. D. envelop container. No. 1,374,218; Apr. 12; v. 285; p. 203.
Nodder, Gerald. (See Clayton, W., and Nodder.)
Noddings, Henry S., Springfield, Mass. Sine-bar. No. 1,374,759; Apr. 12; v. 285; p. 308.
Noel, Joseph M., Portage borough, Pa. Repeating phonograph mechanism. No. 1,375,927; Apr. 26; v. 285; p. 626.
Noeske, Elmer O., Milwaukee, Wis. Signal for railway-crossing gates. No. 1,374,027; Apr. 5; v. 285; p. 126.
Nohlen, Carl, Cleburne, Kans. Jetty. No. 1,373,629; Apr. 5; v. 285; p. 48.
Norcross, Elmer C., Pemberton, N. J. Food-chopper. No. 1,374,092; Apr. 5; v. 285; p. 138.
Nordby, Kristoffer J., Lier, Norway. Ditch-digging machine. No. 1,374,093; Apr. 5; v. 285; p. 139.
Nordin, Charles R., Omaha, Nebr. Automobile-lock. No. 1,376,221; Apr. 26; v. 285; p. 682.
Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
Nordquist, Peter A., assignor to Detachable Plow Share Edge Manufacturing Company, Ogden, Utah. Detachable-plow-edge-bending machine. No. 1,374,094; Apr. 5; v. 285; p. 139.
Nordwick, Henry A., assignor of one-half to F. Seppi, Stockton, Calif. Internal-combustion engine. No. 1,374,164; Apr. 5; v. 285; p. 152.
Nordyke & Marmon Company. (See Ziegler, Leslie I., assignor.)
Norfolk Power Appliance Corporation. (See Mueller, Paul F., assignor.)
Norman, Otto D., Spencer, W. Va. Drilling-machine. No. 1,376,028; Apr. 26; v. 285; p. 646.
North Electric Manufacturing Company, The. (See Dickerson, George W., assignor.)
North, George H., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Silverware cleaning and washing machine. No. 1,376,379; Apr. 26; v. 285; p. 712.
North & Judd Manufacturing Company, The. (See Troop, George W., assignor.)
Northrup, Edwin F., Princeton, assignor to Pyrolectric Instrument Co., Trenton, N. J. Electrical measurement. No. 1,374,316; Apr. 12; v. 285; p. 222.
Northrup, Edwin F., Princeton, assignor to Pyrolectric Instrument Co., Trenton, N. J. Electrical measuring apparatus. No. 1,375,010; Apr. 19; v. 285; p. 419.
Norton Company. (See Beecher, Milton F., assignor.)
Norton Company. (See Hook, Henry C., assignor.)
Norton, Fred E., Worcester, Mass. Process and apparatus for the manufacture of carbids and derivatives thereof. No. 1,374,317; Apr. 12; v. 285; p. 222.
Norwood, Harry G., assignor to W. Fuld, Baltimore, Md. Rocking toy. No. 1,373,630; Apr. 5; v. 285; p. 48.
Norwood, Harry G., assignor to W. A. Fuld, Baltimore, Md. Child's vehicle. No. 1,373,631; Apr. 5; v. 285; p. 48.
Nott, Robert J., Victoria, British Columbia, Canada. Boiler. No. 1,376,158; Apr. 26; v. 285; p. 670.
Nottingham, Otis W., Indianapolis, Ind. Heater and cooker. No. 1,373,828; Apr. 5; v. 285; p. 87.
Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machine for attaching strings to envelops and the like. No. 1,375,229; Apr. 19; v. 285; p. 461.
Nugget Polish Co., The. (See Blanks, Albert, assignor.)
Nullett, Harry J., Memphis, Tenn. Salt-vapor cabinet. No. 1,375,602; Apr. 19; v. 285; p. 532.
Nyhus, Martin, Ashland, Wis. Mattress. No. 1,375,061; Apr. 19; v. 285; p. 429.
O. & J. Machine Company, The. (See Johnson, J. E., and Oslund, assignors.)
Oakes Co., The. (See Ricker, Chester S., assignor.)
Oakes, George W., Roseland, N. J. Soil-pulverizer. No. 1,374,465; Apr. 12; v. 285; p. 252.
Obenshain, Kyle D., McKinney, Tex. Oil-burner. No. 1,375,062; Apr. 19; v. 285; p. 429.
Oberg, Gustaf. (See Osterberg, A. E., and Oberg.)
O'Brien, Edward F., Somerville, Mass. Shoe-rack. No. 1,376,111; Apr. 26; v. 285; p. 662.
Ochsner, Jacob, Zurich, Switzerland. Device for the removal of refuse. No. 1,373,756; Apr. 5; v. 285; p. 72.
O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,375,855; Apr. 26; v. 285; p. 612.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,671; Apr. 12; v. 285; p. 291.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,672; Apr. 12; v. 285; p. 292.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Safety device for car-door-operating mechanisms. No. 1,374,673; Apr. 12; v. 285; p. 292.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,674; Apr. 12; v. 285; p. 292.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,675; Apr. 12; v. 285; p. 292.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,374,676; Apr. 12; v. 285; p. 292.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,374,677; Apr. 12; v. 285; p. 293.

O'Connor, Thomas W., Brooklyn, N. Y. Frame. No. 1,376,222; Apr. 26; v. 285; p. 682.

Oda, Peter, Arcanum, Ohio. Threshing-machine. No. 1,374,518; Apr. 12; v. 285; p. 262.

Odhner, Valentin J., Gottenborg, Sweden. Carriage-shifting device for calculators. No. 1,373,524; Apr. 5; v. 285; p. 29.

Ogden, Edward E., Hoquiam, Wash. Berry-box. No. 1,375,722; Apr. 26; v. 285; p. 587.

Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)

Ohio Fuel Supply Company, The. (See Koch, G. T., and Stallkamp, assignors.)

Ohio Match Company, The. (See Parker, Lucian E., assignor.)

Ohio Tractor Company, The. (See Zubars, B. C., and Clarke, assignors.)

Ohio Truss Co., The. (See Pease, Benjamin F., assignor.)

Ohlsson, Johan A., Stockholm, Sweden. Ball or roller bearing. No. 1,375,313; Apr. 19; v. 285; p. 477.

Öhrström, Vilhelm, assignor to Aktiebolaget Laurin & Perkel, Stockholm, Sweden. Permutation-padlock. No. 1,375,603; Apr. 19; v. 285; p. 532.

O'Kane, Walter C., Durham, N. H. Box-holder. No. 1,375,856; Apr. 26; v. 285; p. 612.

Oland, Charley D., Centralia, Ill. Emergency wheel-skid. No. 1,375,063; Apr. 19; v. 285; p. 429.

Olinger, Jacob M., Springfield, Ohio. Electrical collector. No. 1,375,412; Apr. 19; v. 285; p. 496.

Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,375,656; Apr. 19; v. 285; p. 542.

Oliver, Castagnola, Brooklyn, N. Y. Pedimeter. No. 1,375,969; Apr. 26; v. 285; p. 634.

Oller, Andy R., Beaver Dam, Ky. Tractor. No. 1,374,763; Apr. 12; v. 285; p. 309.

Olney, Coralie S., Oakland, Calif. Bas-relief design and making same. No. 1,375,857; Apr. 26; v. 285; p. 612.

Olsen, Fredrich, Washington, D. C. Explosive composition. No. 1,376,029; Apr. 26; v. 285; p. 646.

Olsen, Fredrich, Washington, D. C. Detonating or disruptive explosive. No. 1,376,030; Apr. 26; v. 285; p. 646.

Olsen, Tinius, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Hammer-testing machine. No. 1,375,604; Apr. 19; v. 285; p. 532.

Olson, Anton V. (See Clark, Charlie N., assignor.)

Olson, Cyrus B., assignor to The Oxygenerator Company, Chicago, Ill. Carbon-remover. No. 1,374,519; Apr. 12; v. 285; p. 262.

Olson, John A., Chicago, Ill. Vise. No. 1,375,928; Apr. 26; v. 285; p. 626.

Olson, Olof W., assignor of one-half to A. W. Anderson, New York, N. Y. Leaf-turning device. No. 1,375,723; Apr. 26; v. 285; p. 588.

Olsson, Ellis, Westpoint, Va. Manufacture of sulfate pulp. No. 1,375,759; Apr. 26; v. 285; p. 594.

Olston, Albert B., *et al.* (See Edstrom, Otto E., assignor.)

O'Neil, Rodolph S., London, England. Electrical indicating device. No. 1,374,948; Apr. 19; v. 285; p. 406.

O'Neill, John. (See Dodd, Henry S., assignor.)

Opie, Leslie E., Cedar Rapids, Iowa. Radiator-overflow condenser. No. 1,375,413; Apr. 19; v. 285; p. 496.

Oponiak, Stanley and A. H., Rainttien, Plantaville, Conn. Coupling-hook. No. 1,375,724; Apr. 26; v. 285; p. 588.

Orange Contracting & Milling Co. (See Miller, Rudolph W., assignor.)

Orend, Peter, Cedar Rapids, Iowa. Newspaper-holder. No. 1,376,031; Apr. 26; v. 285; p. 646.

Orr, Francis L. (See Jahnke, O. H., and Orr.)

Ortgier, Walter C., Wichita Falls, Tex. Truck. No. 1,375,535; Apr. 19; v. 285; p. 519.

Osborn, Francis C., Detroit, Mich. Container-spout. No. 1,375,725; Apr. 26; v. 285; p. 588.

Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite transmission system. No. 1,374,219; Apr. 12; v. 285; p. 204.

Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite signaling system. No. 1,374,220; Apr. 12; v. 285; p. 204.

Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite phantom circuit. No. 1,374,221; Apr. 12; v. 285; p. 204.

Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for testing capacity deviations and unbalance of electric conductors. No. 1,375,414; Apr. 19; v. 285; p. 496.

Osborne, Paul J., Hoboken, N. J. Ornamental card and producing the same. No. 1,374,764; Apr. 12; v. 285; p. 309.

Osborne, William, Auburn, Nebr. Gun-magazine attachment. No. 1,374,601; Apr. 12; v. 285; p. 278.

Osgood, George L., Ayer, Mass. Camera-case. No. 1,374,949; Apr. 19; v. 285; p. 406.

Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)

Oslund, Charles H. (See Johnson, J. E., and Oslund.)

Osterberg, Axel E., and G. Oberg, Norway, Mich. Twine-holder. No. 1,373,757; Apr. 5; v. 285; p. 72.

Osterhout, John V., Bridgeport, Conn. Electrode for spark-plugs. No. 1,373,907; Apr. 5; v. 285; p. 103.

Ostrander, Charles W., Winsted, Conn. Adjustable caster. No. 1,375,536; Apr. 19; v. 285; p. 519.

Östrom, Oskar, Hersernud, Lidingö, Sweden. Fastening device for awnings. No. 1,376,351; Apr. 26; v. 285; p. 707.

Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Holding means for opaque objects. No. 1,375,585; Apr. 26; v. 285; p. 612.

Ouzoun-Boghossian, Sissak K., Washington, D. C. Watch-movement case. No. 1,375,661; Apr. 19; v. 285; p. 543.

Overlien, Ole P., Black River Falls, Wis. Double-door-actuating device. No. 1,373,567; Apr. 5; v. 285; p. 37.

Overton, Tyler P., Los Angeles, Calif. Device for manipulating the bones of the feet. No. 1,375,314; Apr. 19; v. 285; p. 478.

Owen, Joseph W., Plymouth, England. Mixer for dough and like plastic substances. No. 1,374,765; Apr. 12; v. 285; p. 309.

Owen, Peter J., San Francisco, Calif. Sand or grain distributer. No. 1,375,799; Apr. 26; v. 285; p. 601.

Owen, Richard B., Washington, D. C. Outboard-motor. No. 1,374,095; Apr. 5; v. 285; p. 139.

Oxygenerator Company, The. (See Olson, Cyrus B., assignor.)

Ozaki, Haruhiko, Yokohama, Japan. Electric incandescent lamp. No. 1,374,766; Apr. 12; v. 285; p. 309.

Ozols, John W., Bridgeport, Conn. Means for autographing sensitive photographic material. No. 1,376,033; Apr. 26; v. 285; p. 646.

Ozone Company of America. (See Lindemann, William G., assignor.)

Packard Motor Car Company. (See Church, Harold D., assignor.)

Packard Motor Car Company. (See Derr, Charles E., assignor.)

Packard Motor Car Company. (See Druar, Frank J., assignor.)

Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Manufacture of steel. No. 1,373,908; Apr. 5; v. 285; p. 103.

Pagé, Victor W., assignor to The New Departure Manufacturing Company, Bristol, Conn. Clutch mechanism. No. 1,376,033; Apr. 26; v. 285; p. 646.

Paine, Cecil E., Bath, Me. Hydraulic power transmission. No. 1,373,568; Apr. 5; v. 285; p. 37.

Paine, Harry W. (See Smith, A. A., and Paine.)

Palmer, Herbert R., Cleveland Heights, assignor of one-half to C. A. Burke, Cleveland, Ohio. Means for protecting battery-anodes. No. 1,376,034; Apr. 26; v. 285; p. 647.

Palmer, William H., Yale, Mich. Culinary implement. No. 1,374,096; Apr. 5; v. 285; p. 139.

Palmer, William H., Montreal, Quebec, Canada. Nut-lock. No. 1,376,159; Apr. 26; v. 285; p. 671.

Palmgren, Nils G. (See Betulander, G. A., and Palmgren.)

Pancoast, William G., and W. J. Grotenhuis, Chicago, Ill., assignors, by mesne assignments, to American Chain Company. Bumper. No. 1,374,893; Apr. 12; v. 285; p. 334.

Pandermalvy, Paul, *et al.* (See Miller, William G., assignor.)

Panek, Emil, assignor to The Globe Machine & Stamping Co., Cleveland, Ohio. Hinge construction. No. 1,374,602; Apr. 12; v. 285; p. 278.

Pannier, Arthur A., Salt Lake City, Utah. Ear-tag. No. 1,376,223; Apr. 26; v. 285; p. 683.

Pantcheff, Sophocles X., Buckhurst Hill, England. Kite. No. 1,375,970; Apr. 26; v. 285; p. 634.

Pappanikolaou, George, Petersburg, Va. Cigarette. No. 1,374,466; Apr. 12; v. 285; p. 252.

Paque, Edward J., assignor to The Poliak Steel Company, Cincinnati, Ohio. Machine for forming metal blanks. No. 1,374,223; Apr. 12; v. 285; p. 204.

Pareira, Aaron M., Marinette, Wis. Water-cooling system for internal-combustion engines. No. 1,373,445; Apr. 5; v. 285; p. 13.

Park, George I., Burlington, Ontario, assignor of one-third to G. Swanwick and one-third to C. Montag, Hamilton, Ontario, Canada. Seat-raising attachment for theater-chairs or the like. No. 1,374,467; Apr. 12; v. 285; p. 252.

Park, James D., Duluth, Minn. Tractor tread-shoe. No. 1,375,315; Apr. 19; v. 285; p. 478.

Parke Davis & Company. (See Clover, Alphonso M., assignor.)

Parker, Howard, assignor to Brown Company, Berlin, N. H. Machine for straightening and sizing tubular bodies made from pulp. No. 1,374,318; Apr. 12; v. 285; p. 222.

Parker, Lee H., Boston, Mass., assignor to Spray Engineering Company, a Corporation of Massachusetts. Spraying water in cooling-ponds. No. 1,376,112; Apr. 26; v. 285; p. 662.

Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Machine for packing matches. No. 1,374,222; Apr. 12; v. 285; p. 204.

Parker, Orrel A., Cleveland, Ohio. Demountable rim. No. 1,376,035; Apr. 26; v. 285; p. 647.

Parks, Wesley H., Bixby, Okla. Combined displaying and dispending device. No. 1,375,169; Apr. 19; v. 285; p. 450.

Parrish, Robert L., The Dalles, Oreg. Toy aeroplane-projectile. No. 1,375,971; Apr. 26; v. 285; p. 635.

Parsons, Charles A., S. S. Cook, and L. M. Douglas, Wallsend, England; said Cook and Douglas assignors to said Parsons. Packing-gland for rotating bodies. No. 1,374,520; Apr. 12; v. 285; p. 262.

Parsons Marine Steam Turbine Company. (See Black, David C., assignor.)

Paszko, John, Tamaroa, Ill. Coal-drill. No. 1,376,224; Apr. 26; v. 285; p. 683.

Patent Appliance Company. (See Haines, Edward P., assignor.)

Patrick, F. A., & Company. (See Witherell, Earl M., assignor.)

Patten Bros. (See Cunniff, John V., assignor.)

Patten, Charles H., Allentown, Pa. Fluid-differential. No. 1,374,603; Apr. 12; v. 285; p. 278.

Patterson, William L., assignor to Henry Motor Service Company, St. Louis, Mo. Apparatus for transporting crippled or damaged automobiles. No. 1,374,224; Apr. 12; v. 285; p. 205.

Patton, Mathias A., Salt Lake City, Utah. Railway. No. 1,375,726; Apr. 26; v. 285; p. 588.

Paul, Edward B., assignor to Lancaster Automatic Machine Company, Lancaster, Pa. Coin-handling apparatus. No. 1,374,468; Apr. 12; v. 285; p. 252.

Paulson, Ernest W., assignor to Perfection Corn Planter Manufacturing Company, Sioux City, Iowa. Seed-dispenser-driving mechanism for corn-planters. No. 1,376,352; Apr. 26; v. 285; p. 708.

Payette, Albert E., and E. Tetrault, Springfield, Mass. Automobile-signal. No. 1,374,861; Apr. 12; v. 285; p. 328.

Payne, Halsey D., A. W. De Clerque, and S. T. Sjoberg, assignors to Cadillac Washing Machine Co., Chicago, Ill. Washing-machine with folding wringer. No. 1,375,170; Apr. 19; v. 285; p. 450.

Payne, William F., Stratford, Ontario, Canada. Oil-burner. No. 1,373,525; Apr. 5; v. 285; p. 29.

Peabody, James C., Boston, Mass. Making paper, fiber board, and similar materials. No. 1,376,353; Apr. 26; v. 285; p. 708.

Peacock, Edward M., assignor to Davis-Watkins Dairymen's Manufacturing Company, Jersey City, N. J. Can-embossing machine. No. 1,374,225; Apr. 12; v. 285; p. 205.

Peacock, Robert A., Delaware City, Del. Cutting-off tool. No. 1,374,226; Apr. 12; v. 285; p. 205.

Pearce, Reginald A. (See Maule, Harvey G., assignor.)

Pearsall, Chester B., assignor to M. D. Knowlton Company, Rochester, N. Y. Scoring-machine. No. 1,373,668; Apr. 5; v. 285; p. 56.

Pearsall, James R., Rochester, N. Y. Box construction. No. 1,376,036; Apr. 26; v. 285; p. 647.

Pearson, Carl F., assignor to Chicago Machine & Motor Mfg. Co., Chicago, Ill. Clutch. No. 1,374,319; Apr. 12; v. 285; p. 223.

Pearson, Walter, Whitman, Mass. Sewing-machine. No. 1,375,415; Apr. 19; v. 285; p. 496.

Pease, Benjamin F., assignor to The Ohio Truss Co., Cincinnati, Ohio. Armrest. No. 1,376,380; Apr. 26; v. 285; p. 712.

Peasley, Erwin, Amherst, Ohio. Roughening or hand abrading tool. No. 1,373,970; Apr. 5; v. 285; p. 116.

Peck, Duncan W., Syracuse, N. Y. Device for cleaning the surface slots of tunnels of underground third-rail systems. No. 1,375,064; Apr. 19; v. 285; p. 430.

Peck, Frank A., and J. E. A. Moore, Cleveland, Ohio. Drawbar. No. 1,374,097; Apr. 5; v. 285; p. 140.

Peck, Wilbur H., Los Angeles, Calif. Method of and machine for centrifugal separation. No. 1,374,098; Apr. 5; v. 285; p. 140.

Pecoraro, Anthony, New York, N. Y. Adjustable dress-form. No. 1,375,316; Apr. 19; v. 285; p. 478.

Peddle, Charles R., Suffern, N. Y., and J. M. Waldron, Highwood, N. J. Switch-operating mechanism. No. 1,375,537; Apr. 19; v. 285; p. 519.

Pedersen, Oscar A., New York, N. Y. Telephone-collection-box apparatus. No. 1,374,760; Apr. 12; v. 285; p. 308.

Peet, Charles S., New York, N. Y. Clamp-bolt. No. 1,374,227; Apr. 12; v. 285; p. 205.

Peets, Clifford S., assignor to C. Dillon, Great Neck Station, N. Y. Alinement device for automobiles. No. 1,374,028; Apr. 5; v. 285; p. 126.

Peirce, William H. (See Van Vleck, P., and Cooper, assignors.)

Pelletier, Louis F. (See Ciglia, E. F., and Pelletier.)

Pelton, Edward T., Chicago, Ill. Making steel. No. 1,376,160; Apr. 26; v. 285; p. 671.

Peltowitz, Edmund, West Orange, N. J. Vaporizer for internal-combustion engines. No. 1,375,011; Apr. 19; v. 285; p. 419.

Pennington, Glover F., Tuscumbia, Ala. Controlling device for headlights. No. 1,376,225; Apr. 26; v. 285; p. 683.

Pennsylvania Salt Manufacturing Company. (See Pugh, Edward J., assignor.)

Peoples, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Machine-gun mount. No. 1,374,862; Apr. 12; v. 285; p. 328.

Peoples, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Cartridge-belt clamp. No. 1,376,354; Apr. 26; v. 285; p. 708.

Pepper, David, Philadelphia, Pa. Electric battery. No. 1,375,012; Apr. 19; v. 285; p. 419.

Pepper, Elisha D., Pickens, Miss. Automatic release. No. 1,376,605; Apr. 19; v. 285; p. 532.

Perdue, William B., Emeryville, Calif. Welding and cutting torch. No. 1,373,829; Apr. 5; v. 285; p. 88.

Peretto, Robert. (See Albrecht, T., Peretto, and Wandersee.)

Peretto, Robert. (See Wandersee, J. F., Peretto, and Albrecht.)

Perfection Corn Planter Manufacturing Company. (See Paulson, Ernest W., assignor.)

Perkin, Arthur G., Leeds, assignor to British Dyestuffs Corporation Limited, Kingsway, London, England. Manufacture of anthranol. No. 1,375,972; Apr. 26; v. 285; p. 635.

Perkins, Daniel B., assignor of one-half to W. F. Almy, Providence, R. I. Mount for safety-razor blades. No. 1,374,228; Apr. 12; v. 285; p. 205.

Perkins, John W. (See Raynaud, Ernest A., assignor.)

Perkins, Laurence M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,374,521; Apr. 12; v. 285; p. 262.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,099; Apr. 5; v. 285; p. 140.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,100; Apr. 5; v. 285; p. 140.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,101; Apr. 5; v. 285; p. 140.

Perlman, Louis H., New York, N. Y. Rim-operating tool. No. 1,374,102; Apr. 5; v. 285; p. 140.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,103; Apr. 5; v. 285; p. 141.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,104; Apr. 5; v. 285; p. 141.

Perlman, Louis H., New York, N. Y. Demountable rim. No. 1,374,105; Apr. 5; v. 285; p. 141.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,106; Apr. 5; v. 285; p. 141.

Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,107; Apr. 5; v. 285; p. 141.

Permalife Storage Battery Co. (See Smith, Malcom O., assignors.)

Perrin, Bertrand, *et al.* (See Brown, William E., assignor.)

Perry, Grover, Chicago, Ill. Marker. No. 1,373,569; Apr. 5; v. 285; p. 37.

Person, John, Netcong, N. J. Gutter for windshields. No. 1,375,104; Apr. 19; v. 285; p. 437.

Peters, Karl R., Philadelphia, Pa. Smoothing-tool. No. 1,374,604; Apr. 12; v. 285; p. 279.

Peters, Shafeh, Paris, assignor of one-half to C. M. Haddad, Tyler, Tex. Condiment-holder. No. 1,375,929; Apr. 26; v. 285; p. 626.

Peters, William A., assignor to International Patent Licensing Corporation, Chicago, Ill. Photographic camera. No. 1,374,678; Apr. 12; v. 285; p. 293.

Petersen, John H. D., assignor to Link-Belt Company, Chicago, Ill. Coal-handling apparatus. No. 1,375,105; Apr. 19; v. 285; p. 437.

Peterson, Aaron, Chicago, Ill. Renewable safety-fuse. No. 1,375,171; Apr. 19; v. 285; p. 450.

Peterson, Axel. (See Dale, Charles O., assignor.)

Peterson, Carl J., Eldridge, N. D. Runner attachment. No. 1,375,727; Apr. 26; v. 285; p. 588.

Peterson, Ferdinand B., New York, N. Y. Wafer-tongs. No. 1,374,522; Apr. 12; v. 285; p. 263.

Peterson, Fredolf J., assignor to The McCaskey Register Company, (Incorporated in 1914,) Alliance, Ohio. Card-holder. No. 1,374,863; Apr. 12; v. 285; p. 328.

Peterson, John M., Dawson, Minn. Forming secondary-battery plates. No. 1,375,317; Apr. 19; v. 285; p. 478.

Peterson, Louis H. (See Melin, Frank O., assignor.)

Peterson, Peter L., Worcester, Mass. Wire connection for strain-insulators. No. 1,374,229; Apr. 12; v. 285; p. 205.

Petroleum Combustion Company, The. (See Wilson, Amyult L., assignor.)

Petroleum Heat and Power Company. (See Fesler, Milton A., assignor.)

Petrovics, Fred J., Chicago, Ill. Temperature-controller. No. 1,374,230; Apr. 12; v. 285; p. 206.

Petters Limited. (See Brooks, Herbert, assignor.)

Pettit, Charles A., St. Louis, Mo., assignor to C. W. Hunt Company, Inc., West New Brighton, N. Y. Rope-coupling. No. 1,374,469; Apr. 12; v. 285; p. 252.

Pettkoske, Cleophas F., Chicago, Ill. Casket-carrier. No. 1,374,320; Apr. 12; v. 285; p. 223.

Petty, Herbert H., Indianapolis, Ind. Combination fish and bait bucket. No. 1,373,830; Apr. 5; v. 285; p. 88.

Peyer, John, Brooklyn, N. Y. Screwdriver. No. 1,375,606; Apr. 19; v. 285; p. 532.

Peyré, Jules, San Francisco, Calif. Vehicle direction-indicator. No. 1,374,605; Apr. 12; v. 285; p. 279.

Pfahl, Robert, Venturia, assignor of one-half to R. Dahlke, Ashley, N. D. Food-boiler. No. 1,374,108; Apr. 5; v. 285; p. 142.

Pfannenstiehl, Harry, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphy. No. 1,374,606; Apr. 12; v. 285; p. 279.

Pfeiffer, Charles, and F. A. Wasson, Milwaukee, Wis. Oil-well washer. No. 1,375,106; Apr. 19; v. 285; p. 438.

Pfeiffer, Frank W., Peekskill, N. Y. Bead-making tool. No. 1,375,318; Apr. 19; v. 285; p. 478.

Phelps, Frederick S., Sausalito, Calif., assignor to The American Steel and Wire Company of New Jersey. Wire rope. No. 1,373,632; Apr. 5; v. 285; p. 49.

Phelps Manufacturing Company, The. (See Howard, Charles O., assignor.)

Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)

Philadelphia Storage Battery Company. (See Grimditch, William H., assignor.)

Phillbin, Henry F. (See White, H. E., and Phillbin.)

Phillips, John W., Verona, N. J. Renewing and repairing worn metal surfaces. No. 1,374,321; Apr. 12; v. 285; p. 223.

Phillips, John W., Hendon, assignor to Bishopsgate General Trading Company Limited, London, England. Gas-engine-starting device. No. 1,375,172; Apr. 19; v. 285; p. 450.

Phillips, Ross M. G., New Haven, assignor to The Phillips Time Switch Co., Shelton, Conn. Timing device. No. 1,375,973; Apr. 26; v. 285; p. 635.

Phillips Time Switch Co., The. (See Phillips, Ross M. G., assignor.)

Phipps, Edward H., Philadelphia, Pa. Vault and safe door. No. 1,376,355; Apr. 26; v. 285; p. 708.

Phonoharp Company, The. (See Nobbs, George H., assignor.)

Piaser, Abraham, Elmhurst, assignor to Rosenwasser Bros. Inc., Astoria, Long Island, N. Y. Safety device for power-presses. No. 1,375,760; Apr. 26; v. 285; p. 594.

Pickard, Oren S. (See Gowing, Ernest T., assignor.)

Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)

Pieper, Oscar H. and A. F., Rochester, N. Y. Unitary dental apparatus. No. 1,376,356; Apr. 26; v. 285; p. 708.

Pierce, Henry T., and A. D. McPhee, Worcester, Mass., assignors to General Electric Company. Insulator-connector. No. 1,375,974; Apr. 26; v. 285; p. 635.

Pierce, Howard M., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Headgear for athletes. No. 1,373,446; Apr. 5; v. 285; p. 13.

Pierce, Robert S., and M. R. Kuehn, Milwaukee, Wis. Steering mechanism for vehicles. No. 1,375,859; Apr. 26; v. 285; p. 613.

Pierle, Henry C., assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Change-of-speed mechanism. No. 1,374,109; Apr. 5; v. 285; p. 142.

Piersen Manufacturing Company, The. (See Cushman, Everett B., assignor.)

Pine, Wilber J., Oshkosh, Wis. Wire fabric. No. 1,376,037; Apr. 26; v. 285; p. 647.

Pinette, Marcel L., Westbrook, Me. Cutter-guard. No. 1,375,013; Apr. 19; v. 285; p. 419.

Pinkney, Bryan D., Newport, Ky. Cover for mixers. No. 1,375,416; Apr. 19; v. 285; p. 497.

Pioneer Bindery and Printing Company. (See Howe, Mortimer A., assignor.)

Pistor, Gustav, Frankfort-on-the-Main, A. Beielstein and A. Beck, Bitterfeld, assignors to the firm of Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Producing ferro-silico-magnesium alloy. No. 1,376,113; Apr. 26; v. 285; p. 662.

Piterman, Joe. (See Bloom, H., Gerber, and Piterman.)

Pitt, William A., Montreal, Quebec, Canada. Train-lighting apparatus. No. 1,374,523; Apr. 12; v. 285; p. 263.

Pittenger, Paul S., assignor to H. K. Mulford Company, Philadelphia, Pa. Hypodermic syringe. No. 1,373,669; Apr. 5; v. 285; p. 56.

Pittevil, Alois G. C., London, England. Welding of different metals to form composite ingots. No. 1,374,110; Apr. 5; v. 285; p. 142.

Pittman, Carl L. (See Humphrey, D. L., and Pittman.)

Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)

Pittsburgh Plate Glass Company. (See Reynolds, Harry A., assignor.)

Pittsburgh Plate Glass Company. (See Showers, Lee, assignor.)

Pittsburgh Plate Glass Company. (See Slingluff, Harry G., assignor.)

Pivot Button Company. (See Rovelli, Angelo C., assignor.)

Place, Olney, U. S. Army. Apparatus for training troops in the pointing of guns. No. 1,376,357; Apr. 26; v. 285; p. 709.

Plaisted, Harold M., assignor of forty-nine one-hundredths to M. F. Williams, St. Louis, Mo. Air-skimmer for belt-pulleys. No. 1,375,173; Apr. 19; v. 285; p. 450.

Plasterer, Purl C., Dayton, Ohio. Making bifocal lenses. No. 1,373,633; Apr. 5; v. 285; p. 49.

Platero, Augusto N., Montevideo, Uruguay. Collapsible holder for sharp-edged blades or instruments. No. 1,373,758; Apr. 5; v. 285; p. 73.

Pleister, Henry W., Westfield, N. J., assignor to H. W. Newhall, Jr., executor. Spring toggle. No. 1,374,950; Apr. 19; v. 285; p. 407.

Plumb, Edwin B., Clawson, Mich. Bedclothes-holding device. No. 1,373,670; Apr. 5; v. 285; p. 56.

Plummer, H. H. (See Cornish, Sidney E., assignor.)

Pneumatic Acetylene Generator Corporation, The. (See Goodyear, Nelson, assignor.)

Pneumatic Tube Steam Splicer Company, The. (See Fetter, Edward, assignor.)

Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,373,447; Apr. 5; v. 285; p. 13.

Pollak Steel Company, The. (See Paque, Edward J., assignor.)

Pomfret, John. (See Airey, W. E., and Pomfret.)

Pomillo, Carlo, Rome, Italy. Monocycle-vehicle. No. 1,374,761; Apr. 12; v. 285; p. 308.

Poole, Arthur F., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,374,762; Apr. 12; v. 285; p. 308.

Poor, Gilbert H., Milwaukee, Wis. Safety liquid-dispensing apparatus. No. 1,376,226; Apr. 26; v. 285; p. 683.

Popham, Herbert G., Toronto, Ontario, Canada. Portable card-plate-printing machine. No. 1,375,800; Apr. 26; v. 285; p. 601.

Popin, Ziva, New York, N. Y. Hair-treating device. No. 1,376,358; Apr. 26; v. 285; p. 709.

Portable Machinery Company. (See Wentz, Jere L., assignor.)

Portham, Roland S., and J. Dornan, London, England. Water-tube boiler and superheater therefor. No. 1,375,174; Apr. 19; v. 285; p. 451.

Porzel, Joseph, Buffalo, N. Y., assignor, by mesne assignments, to Superior Rubber Company, Pittsburgh, Pa. Treating rubber. No. 1,374,231; Apr. 12; v. 285; p. 206.

Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Tailpiece for aeroplanes. No. 1,373,759; Apr. 5; v. 285; p. 73.

Potter, Arthur C., Mission, Tex. Necktie-holder. No. 1,374,322; Apr. 12; v. 285; p. 223.

Powell, John A. (See Rhoads, Howard F., assignor.)

Powell, Thomas F., Retsil, Wash. Aerial toy parachute. (Reissue.) No. 15,091; Apr. 19; v. 285; p. 544.

Powers, Donald J., Dobbs Ferry, N. Y., assignor to The Powers Regulator Company, Chicago, Ill. Fluid-mixer. No. 1,373,634; Apr. 5; v. 285; p. 49.

Powers, Frank T., New York, N. Y. Cooler for photo-mechanical printing-plates. No. 1,373,909; Apr. 5; v. 285; p. 103.

Powers Regulator Company, The. (See Powers, Donald J., assignor.)

Pratt, David S., Pittsburgh, Pa. Fungicide and insecticide and producing the same. No. 1,374,951; Apr. 19; v. 285; p. 407.

Pratt, John B., Schenectady, N. Y., assignor to General Electric Company. Degasifying process. No. 1,374,679; Apr. 12; v. 285; p. 293.

Pratt & Whitney Company. (See Blood, Bryant H., assignor.)

Pratt & Whitney Company. (See Muller, Friederich, assignor.)

Precinauskas, Alexander S., Waukegan, Ill. Game. No. 1,373,448; Apr. 5; v. 285; p. 18.

Precision Equipment Company, The. (See New, Thomas E., assignor.)

Prentiss, William, Jr. (See McNulty, Daniel H., Jr., assignor.)

Pressey, Wilbur A., Boston, Mass., assignor to General Electric Company. System of distribution. No. 1,373,910; Apr. 5; v. 285; p. 103.

Preston, Alston L., Leominster, Mass. Hair ornament. No. 1,374,524; Apr. 12; v. 285; p. 263.

Preston, Grace D., Lakeside, assignor of two-fifths to A. G. Smith, Elyria, Ohio. Fastening device. No. 1,374,680; Apr. 12; v. 285; p. 293.

Price, Charles C., and D. V. Bridwell, Dumas, Ark. Stand for Ford engines. No. 1,373,526; Apr. 5; v. 285; p. 29.

Prickett, William H., Trenton, N. J. Tone-foot for phonographs. No. 1,374,029; Apr. 5; v. 285; p. 126.

Priestley, Thomas J., Jr., Philadelphia, Pa. Device for enhancing the resiliency of vehicle-springs. No. 1,373,527; Apr. 5; v. 285; p. 29.

Pringle, Albert L. (See Kelly, J. G., Pringle, and Hall.)

Printz, Harold E., assignor to Reading Wood Pulley Company, Reading, Pa. Pulley. No. 1,375,607; Apr. 19; v. 285; p. 533.

Pritchard, George A. (See Buckman, H. H., and Pritchard.)

Pritzel, Benjamin C. F., Stillwater, Minn. Plow-releasing device. No. 1,373,971; Apr. 5; v. 285; p. 116.

Process Company, The. (See Coast, John W., Jr., assignor.)

Proctor & Schwartz. (See Ayres, Elwood B., assignor.)

Pugh, Edward J., Trenton, assignor to Pennsylvania Salt Manufacturing Company, Wyandotte, Mich. Making basic zirconium sulfate. No. 1,371,161; Apr. 26; v. 285; p. 671.

Pugh, John D., Harrisburg, Pa. Coal-mining machine. No. 1,374,525; Apr. 12; v. 285; p. 263.

Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Collapsible roofed cot. No. 1,374,386; Apr. 12; v. 285; p. 236.

Purcell, Isaac S., Oak Park, Ill. Folding cot. No. 1,374,387; Apr. 12; v. 285; p. 236.

Putnam, Edward J., Atlanta, Ga. Concrete car construction. No. 1,374,111; Apr. 5; v. 285; p. 142.

Pyrolectric Instrument Co. (See Northrup, Edwin F., assignor.)

Q & C Company. (See McComb, Richard J., assignor.)

Quarfoot, Carl B., Chicago, Ill. Direction-indicator for automobiles. No. 1,374,470; Apr. 12; v. 285; p. 252.

Quattlander, Albert T., Astoria, N. Y. Liquid gloss for polished surfaces. No. 1,376,038; Apr. 26; v. 285; p. 647.

Quick-McLain Machine Gun Company, The. (See McLain, R. M., and Quick, assignors.)

Quick, William M. (See McLain, R. M., and Quick.)

Quigley, John T., assignor to Costmeter Company, Boston, Mass. Perforating-machine. No. 1,373,760; Apr. 5; v. 285; p. 73.

Quigley, Patrick H., Winnett, Mont. Apparatus for storage of compressed air. No. 1,376,359; Apr. 26; v. 285; p. 709.

Qupee Hose Supporter Company. (See Lindquist, Erick V., assignor.)

R. K. Le Blond Machine Tool Company, The. (See Pierle, Henry C., assignor.)

Rabezzana, Hector, assignor of one-half to A. A. Carlson, Flint, Mich. Washing-machine. No. 1,376,227; Apr. 26; v. 285; p. 684.

Rabin, Samuel, New York, and J. M. Lang, Yonkers, N. Y. Beater and mixer. No. 1,373,761; Apr. 5; v. 285; p. 73.

Rachwal, Piotr S., Depew, N. Y. Railway-tie. No. 1,373,831; Apr. 5; v. 285; p. 88.

Racine Phonograph Company. (See Blandin, Frederick F., assignor.)

Radium Luminous Material Corporation. (See Willis, Paul M., assignor.)

Rae, Frank B., Cleveland, Ohio. Electric-motor generator for starting and lighting gasolene-automobiles. No. 1,375,319; Apr. 19; v. 285; p. 478.

Rafsky, Harold R., Lawrence, Mass. Coated paper. No. 1,374,112; Apr. 5; v. 285; p. 142.

Ragon, Robert L., *et al.* (See Hubble, Joe H., assignor.)

Ragsdale, Charles R., St. Louis, Mo. Six-stream distributing attachment for soda-water draft-arms. No. 1,374,767; Apr. 12; v. 285; p. 309.

Ragsdale, Earl J. W., U. S. Army, assignor to Secretary of War, trustee for Government of United States of America. Impact-fuse. No. 1,375,466; Apr. 19; v. 285; p. 506.

Rail Joint Company, The. (See Thomson, William P., assignor.)

Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Distributing apparatus. No. 1,375,728; Apr. 26; v. 285; p. 588.

Rainftien, August H. (See Oponiak, S., and Rainftien.)

Raker, Michael. (See Watchorn, H. L. J., Roberts, and Raker.)

Rally, Pierre A., Tucson, Ariz. Automobile-polish. No. 1,376,228; Apr. 26; v. 285; p. 684.

Ralston, Oliver C., Niagara Falls, N. Y. Treating brass-scrap. No. 1,375,930; Apr. 26; v. 285; p. 625.

Rammelsberg, Karl, Cassel, Germany. Recording-stylus. No. 1,373,635; Apr. 5; v. 285; p. 49.

Randel, Frank L., New York, N. Y. Sulfated oil. No. 1,374,607; Apr. 12; v. 285; p. 279.

Raney, James L., Cleveland, Ohio. Vehicle-wheel lock. No. 1,376,114; Apr. 26; v. 285; p. 662.

Rapp, Frederick M. (See Duckworth, John T., assignor.)

Rashkovsky, Samuel, (now by judicial change of name Samuel Raskin,) assignor to Metalform Construction Corporation, St. Louis, Mo. Adjustable form for concrete structures. No. 1,374,864; Apr. 12; v. 285; p. 329.

Rasmussen, Andrew, Jr. (See Rasmussen, Andrew, Sr., and A., Jr.)

Rasmussen, Andrew, Sr., and A., Jr., Ridgway, Colo. Advertising device. No. 1,375,260; Apr. 19; v. 285; p. 467.

Rasmussen, Andrew, Sr., and A., Jr., Ridgway, Colo. Advertising device. No. 1,375,261; Apr. 19; v. 285; p. 467.

Rasmussen, Martin, Racine, Wis. Eyeleting-machine. No. 1,373,671; Apr. 5; v. 285; p. 56.

Rateau, Auguste C. E., Paris, France. Pertaining to internal-combustion aircraft-motors. No. 1,375,931; Apr. 26; v. 285; p. 627.

Rathburn, Emory L., Chicago, Ill. Fluid-pressure-control system. No. 1,374,323; Apr. 12; v. 285; p. 223.

Ratkovic, Frank X., Etna, Pa. Wire-cutter. No. 1,373,762; Apr. 5; v. 285; p. 74.

Ray, Albert D., Cleveland, Ohio. Oil-hole closure. No. 1,374,886; Apr. 12; v. 285; p. 332.

Ray, William L., assignor to H. H. Cartwright, Oregon, Ill. Combination-tool. No. 1,374,681; Apr. 12; v. 285; p. 293.

Bayburn, Kitty, St. Louis, Mo. Washing-machine. No 1,375,107; Apr. 19; v. 285; p. 438.

Raymond, Harry. (See Stommel, Hugo, assignor.)

Raynaud, Ernest A., assignor of one-half to J. W. Perkins, San Diego, Calif. Tire-spreader. No. 1,375,065; Apr. 19; v. 285; p. 430.

Raynor, Benjamin A., Muskogee, Okla. Resilient and demountable wheel-rim. No. 1,374,113; Apr. 5; v. 285; p. 142.

Reading Wood Pulley Company. (See Printz, Harold E., assignor.)

Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Corrugated dry-battery cup. No. 1,374,168; Apr. 5; v. 285; p. 152.

Record, Adam F., Kokomo, Ind. Attachment for pencils or pens. No. 1,376,115; Apr. 26; v. 285; p. 663.

Redding, Frank F., New York, N. Y. Starting-crank for motors. No. 1,374,114; Apr. 5; v. 285; p. 143.

Redding, Roy F., Evansville, Ind. Metal bed construction. No. 1,373,763; Apr. 5; v. 285; p. 74.

Redfield, John A., Houston, Tex. Mouthpiece for clarinets. No. 1,375,467; Apr. 19; v. 285; p. 506.

Redman, Lawrence V., Evanston, A. J. Weith, and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Producing a phenolic condensation product. No. 1,374,526; Apr. 12; v. 285; p. 264.

Redmanol Chemical Products Company. (See Redman, L. V., Weith and Brock, assignors.)

Reece-Hilton Inc. (See Hilton, Roland C., assignor.)

Reed, Charles H., San Francisco, Calif. Fingering attachment for stringed instruments. No. 1,374,388; Apr. 12; v. 285; p. 236.

Reed, Clarence E., Houston, Tex. Grapple for oil-wells and the like. No. 1,375,320; Apr. 19; v. 285; p. 478.

Reed, Hastings C., Cedarville, Ohio. Portable blower. No. 1,374,232; Apr. 12; v. 285; p. 206.

Reed, Lloyd R. (See Cook, A. F., and Reed.)

Reed Manufacturing Company. (See Wright, Ross P., assignor.)

Rees, Herbert C., San Antonio, Tex. Forming tubes. No. 1,375,108; Apr. 19; v. 285; p. 438.

Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp-stop-motion frame. No. 1,375,729; Apr. 26; v. 285; p. 589.

Regen, Oscar, and J. Castelle, New York, N. Y. Calendar and card hanging device. No. 1,376,116; Apr. 26; v. 285; p. 663.

Regis, Frank. (See Chmurski, Anton J., assignor.)

Reich, Valdemar F., Pittsburgh, Pa., assignor to N. Elin, Newark, N. J. Double-acting elastic shackle. No. 1,373,449; Apr. 5; v. 285; p. 13.

Reichenbach, George T., Chicago, Ill. Can. No. 1,374,389; Apr. 12; v. 285; p. 236.

Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,374,682; Apr. 12; v. 285; p. 294.

Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,374,683; Apr. 12; v. 285; p. 294.

Reid, William. (See Edwards, William A., assignor.)

Reinbold, Alexander. (See Reinbold, Phillip, A., and A.)

Reinbold, Arthur. (See Reinbold, Phillip, A., and A.)

Reinbold, Phillip, A., and A., Blumfield township, Saginaw county, Mich. Pea-vine-harvesting machine. No. 1,373,832; Apr. 5; v. 285; p. 88.

Reinhold, Otto F., Maplewood, assignor, by mesne assignments, to Foster-Reinhold Laboratories, Newark, N. J. Composition of matter. No. 1,374,233; Apr. 12; v. 285; p. 206.

Reinke, Gustave A., Stockton, Calif. Raker-gage. No. 1,373,636; Apr. 5; v. 285; p. 49.

Reitan, Lorentz O., Haugesund, Norway. Fan for beds. No. 1,376,289; Apr. 26; v. 285; p. 696.

Relay Automatic Telephone Company, Limited, The. (See Betulander, G. A., and Palmgren, assignors.)

Reliance Wheel Co., The. (See Culp, Jay S., assignor.)

Remington Accounting Machine Corporation. (See Poole, Arthur F., assignor.)

Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Means and method for supplying liquid fuel to explosive-motors. No. 1,373,911; Apr. 5; v. 285; p. 103.

Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Means for supplying liquid fuel to explosive-motors. No. 1,373,912; Apr. 5; v. 285; p. 104.

Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Means for supplying liquid fuel to explosive-motors. No. 1,373,913; Apr. 5; v. 285; p. 104.

Remington Manufacturing Company. (See Remington, Joseph P., assignor.)

Remington Typewriter Company. (See Bridgwater, Herbert E., assignor.)

Remington Typewriter Company. (See Seib, George A., assignor.)

Remington Typewriter Company. (See Woodward, Oscar, assignor.)

Remsnider, George, Belleville, Ill. Feed-carriage for stencil-machines. No. 1,374,234; Apr. 12; v. 285; p. 206.

Renner, William. (See Kohl, M., and Renner, assignor.)

Reno, Jesse W., New York, N. Y. Device for raising sunken vessels. No. 1,373,672; Apr. 5; v. 285; p. 56.

Rentz, George M., Wells, Minn. Phonograph. No. 1,375,730; Apr. 26; v. 285; p. 589.

Repert, Walter B., Dunkirk, N. Y. Chiropractic table. No. 1,376,229; Apr. 26; v. 285; p. 684.

Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method and apparatus for treating selvage. No. 1,375,468; Apr. 19; v. 285; p. 506.

Restrepo, Apolinar, Medellin, Colombia. Copy-holder. No. 1,375,731; Apr. 26; v. 285; p. 589.

Revolvator Company. (See Boebck, William E., assignor.)

Reynard, John, Omaha, Nebr. Traffic-signal. No. 1,374,471; Apr. 12; v. 285; p. 253.

Reynolds, Edward T., Chico, Calif. Traveling bleaching-frame. No. 1,376,290; Apr. 26; v. 285; p. 696.

Reynolds, Harry A., Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Machine for rolling plate-glass. No. 1,375,014; Apr. 19; v. 285; p. 420.

Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,375,230; Apr. 19; v. 285; p. 461.

Reynolds, Reginald, Riverside, Conn. Thread package or holder. No. 1,375,015; Apr. 19; v. 285; p. 420.

Resnor, George F., Mercer, Pa. Metal punching and bending machine. No. 1,374,324; Apr. 12; v. 285; p. 223.

Rhoades, Alonzo E., Hopedale, Mass., assignor to Draper Corporation. Friction-reducer for loom-shafts. No. 1,374,325; Apr. 12; v. 285; p. 324.

Rhoads, Howard F., Winston-Salem, N. C., assignor of one-third to John A. Powell, Middletown, Ohio. Insect attracting and exterminating device. No. 1,375,016; Apr. 19; v. 285; p. 420.

Rhodes, Austin D., Waltham, Mass., assignor to American Lacing Hook Co. Gage for positioning sheet material. No. 1,375,641; Apr. 19; v. 285; p. 540.

Riblet, Byron C. (See Riblet, Royal N., assignor.)

Riblet, Royal N., assignor of one-half to B. C. Riblet, Spokane, Wash. Reversible switch-rail. No. 1,373,637; Apr. 5; v. 285; p. 50.

Rice, Felix E., and W. A. Rush, Northampton, England. Insole for boots and shoes. No. 1,374,630; Apr. 5; v. 285; p. 127.

Rice, Oliver M., Birmingham, Ala. Demountable-automobile-rim tool. No. 1,374,031; Apr. 5; v. 285; p. 127.

Rich, G. Willard, trustee. (See Lederer, Carl F., assignor.)

Richard, Elie, Quebec, Quebec, Canada. Leather-press. No. 1,375,469; Apr. 19; v. 285; p. 507.

Richards, Edwin L., Los Angeles, Calif. Necklace. No. 1,375,176; Apr. 19; v. 285; p. 451.

Richards, Gordon E., Toronto, Ontario, Canada. X-ray photographing appliance. No. 1,374,285; Apr. 12; v. 285; p. 206.

Richards, William E., Toledo, Ohio. Trolley-line support. No. 1,373,972; Apr. 5; v. 285; p. 116.

Richardson, Emma C., Ridgefield Park, N. J. Toy. No. 1,375,606; Apr. 19; v. 285; p. 553.

Richardson, George L. and W. E., Chicago, Ill. Dispenser. No. 1,373,973; Apr. 5; v. 285; p. 116.

Richardson, Robert N., Los Angeles, Calif. Sleeping-compartment. No. 1,375,417; Apr. 19; v. 285; p. 497.

Richardson, Walter E. (See Richardson, George L. and W. E.)

Richardson, William W., London, England. Apparatus for classifying and concentrating minerals, ores, and the like, also applicable to the requirements of mineral-dredging. No. 1,374,472; Apr. 12; v. 285; p. 258.

Richter, Gustaf F., Brooklyn, N. Y. Tonsil-remover. No. 1,375,177; Apr. 19; v. 285; p. 451.

Richter, Gustav F., Brooklyn, N. Y. Tonsil-remover. No. 1,375,178; Apr. 19; v. 285; p. 451.

Ricker, Chester S., assignor to The Oakes Co., Indianapolis, Ind. Bearing. No. 1,373,974; Apr. 5; v. 285; p. 117.

Riddle, Arthur J., Erie, Pa. Foldable sink-rack. No. 1,373,975; Apr. 5; v. 285; p. 117.

Rideal, Eric K., London, and H. S. Taylor, St. Helens, England. Purification of hydrogen. No. 1,375,982; Apr. 26; v. 285; p. 627.

Rideal, Eric K., and H. S. Taylor, London, England. Apparatus and process for gas analysis. No. 1,375,933; Apr. 26; v. 285; p. 627.

Ridgley, Aldas S., Boston, Mass. Bonnet-fastener. No. 1,376,039; Apr. 26; v. 285; p. 647.

Rieck, John C., Buffalo, N. Y. Burglar-alarm. No. 1,374,664; Apr. 12; v. 285; p. 294.

Riggin, Fred L. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)

Rigsby, Virgil, Hemphill, Tex. Magneto-contact. No. 1,376,162; Apr. 26; v. 285; p. 671.

Ritchie, Harry C., Liverpool, and M. Kahn, London, England. Reinforced concrete construction of ships, floating docks, pontoons, and the like. No. 1,375,179; Apr. 19; v. 285; p. 452.

Rittenour, Frederick H., Annapolis, Md. Speedometer for automobiles. No. 1,375,761; Apr. 26; v. 285; p. 594.

Ritter, Charles E., assignor, by mesne assignments, to J. S. McChesney & Co., Chicago, Ill. Hose-clamp. No. 1,373,673; Apr. 5; v. 285; p. 57.

Ritz, Robert R., Milwaukee, Wis. Combined container and liquid-spreader. No. 1,374,236; Apr. 12; v. 285; p. 207.

Roach, Caleb, Toronto, Ontario, Canada. Shears. No. 1,373,636; Apr. 5; v. 285; p. 50.

Roach, William H., Lindsay, Calif. Convertible can-opener. No. 1,374,032; Apr. 5; v. 285; p. 127.

Robeberry Surprise Mining Co. (See Hynes, Dibrell P., assignor.)

Roberts, Frank A., Chicago, Ill. Button. No. 1,373,976; Apr. 5; v. 285; p. 117.

Roberts, George H. (See Watchorn, H. L. J., Roberts, and Baker.)

Roberts, Joseph T., Shelbyville, Ky. Spring device for automobiles. No. 1,376,040; Apr. 26; v. 285; p. 648.

Roberts Manufacturing Co. (See Roberts, Ralph E., assignor.)

Roberts, Park D. (See Roberts, Webster M. and P. D.)

Roberts, Ralph R., assignor to Roberts Manufacturing Co., Lockport, N. Y. Apparatus for dressing grindstones. No. 1,373,633; Apr. 5; v. 285; p. 88.

Roberts, Webster M. and P. D., St. Joseph, Mo. Apparatus for making ice cream cones. No. 1,376,609; Apr. 19; v. 285; p. 583.

Roberts, William E., Portland, Oreg. Sectional furniture. No. 1,373,528; Apr. 5; v. 285; p. 29.

Robertson, Elmer D. B., *et al.* (See Umphrey, Henry, assignor.)

Robertson, Gilbert, Vancouver, British Columbia, Canada. Artificial trolling-bait. No. 1,376,230; Apr. 26; v. 285; p. 684.

Robinson, Archie D., Westfield, Mass. Waste-paper bag. No. 1,373,450; Apr. 5; v. 285; p. 14.

Robinson, Harry. (See Soons, J. E., and Robinson.)

Robinson, Leslie V., New York, N. Y. Dental impression-tray. No. 1,376,163; Apr. 26; v. 285; p. 671.

Rochette, Joseph E. (See Cartier, J., and Delcourt, assignors.) (Reissue.)

Rock Island Plow Company. (See Heider, Henry J., assignor.)

Rockbestos Products Corporation. (See Heany, John A., assignor.)

Rockey, Clarence H., Chicago, Ill. Indirect-light-bowl holder. No. 1,375,180; Apr. 19; v. 285; p. 452.

Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)

Rode, George W., Jr., Brooklyn, N. Y. Vehicle-tire. No. 1,374,390; Apr. 12; v. 285; p. 236.

Rodger Ballast Car Company. (See Hindahl, David, assignor.)

Rodger Ballast Car Company. (See Neikirk, John O., assignor.)

Rodger, John M., Chicago, Ill. Power-operated churn. No. 1,373,674; Apr. 5; v. 285; p. 57.

Rodhe, Olof, assignor to Aktiebolaget Ingeniörsfirma Frits Egnell, Stockholm, Sweden. Apparatus for analyzing gas. No. 1,374,391; Apr. 12; v. 285; p. 237.

Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Air-gun. No. 1,373,451; Apr. 5; v. 285; p. 14.

Roe, James P., Pottstown, Pa. Oscillating puddling-furnace. No. 1,375,181; Apr. 19; v. 285; p. 452.

Roemer, Jacob F., Waukegan, Ill. Tension-table. No. 1,374,115; Apr. 5; v. 285; p. 143.

Rogers, Edwin M., New York, N. Y. Air-lift apparatus. No. 1,374,952; Apr. 19; v. 285; p. 407.

Rogers, John F., Dayton, Ohio. Tire-turning tool. No. 1,373,834; Apr. 5; v. 285; p. 89.

Rogne, Elmer J. (See Skott, C., and Rogne.)

Rogne, Martin J. (See Skott, C., and Rogne.)

Rohn, Earl C. (See Strong, E. G., and Rohn.)

Rolkerr, Retlow, Oakland, Calif. Fluid-compressor. No. 1,376,291; Apr. 26; v. 285; p. 696.

Rollin, Eugene H., Indianapolis, Ind. Fluid-gage for automobiles. No. 1,376,164; Apr. 26; v. 285; p. 671.

Römer, Adolf, Stuttgart, Germany, assignor, by mesne assignments, to A. Kuttroff, New York, N. Y. Manufacture of substances precipitating glue. No. 1,375,975; Apr. 26; v. 285; p. 635.

Römer, Adolf, Stuttgart, Germany, assignor to A. Kuttroff, New York, N. Y. Manufacture of substances precipitating glue. No. 1,375,976; Apr. 26; v. 285; p. 635.

Ronald, Samuel D., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Angle-bending machine. No. 1,375,934; Apr. 26; v. 285; p. 627.

Roney, John H., trustee. (See Schmidt, Augustus F., assignor.)

Rood, C. P. (See Johnson, George L. N., assignor.)

Rooney, Patrick J., New Rochelle, N. Y. Power-transmission appliance for pumps and compressors. No. 1,373,764; Apr. 5; v. 285; p. 74.

Roosa, Frank A., Orange township, Blackhawk county, Iowa, assignor of one-half to J. L. Zeidler, St. Joseph, Mo. Machine for forming hollow concrete blocks. No. 1,374,392; Apr. 12; v. 285; p. 237.

Rorabeck, Floyd F., Azusa, Calif. Lock. No. 1,374,393; Apr. 12; v. 285; p. 237.

Rose, William T., Waterloo, Iowa. Power-actuated safety-razor. No. 1,374,608; Apr. 12; v. 285; p. 279.

Rosebush, Waldo E., Spokane, Wash. Magazine for hand-firearms. No. 1,375,322; Apr. 19; v. 285; p. 479.

Rosebush, Waldo E., Spokane, Wash. Firearm. No. 1,376,165; Apr. 26; v. 285; p. 672.

Rosenberg, Benjamin, Brooklyn, N. Y. Receptacle for display. No. 1,374,953; Apr. 19; v. 285; p. 407.

Rosenberg, Morris, Brooklyn, N. Y. Obstruction-alarm. No. 1,376,166; Apr. 26; v. 285; p. 672.

Rosenman, Leo, Newark, N. J. Fastener-strip or fly for garments. No. 1,373,452; Apr. 5; v. 285; p. 14.

Rosenthal, Arthur, Grand Rapids, Mich., and M. G., Cincinnati, Ohio, assignors to The Tag Sewing Machine Company, Grand Rapids, Mich. Sewing-machine. No. 1,374,326; Apr. 12; v. 285; p. 224.

Rosenthal, Morris G. (See Rosenthal, Arthur and M. G.)

Rosenwasser Bros. (See Plaser, Abraham, assignor.)

Rosner, Rudolf, Chicago, Ill. Electric gas-generator. No. 1,374,237; Apr. 12; v. 285; p. 207.

Ross, Allen R., Seattle, Wash. Electric cooking-stove. No. 1,375,801; Apr. 26; v. 285; p. 601.

Ross, Oscar A., New York, N. Y. Combined automobile fender and radiator-protector. No. 1,374,394; Apr. 12; v. 285; p. 237.

Ross, Russell H. (See Huckle, James B., assignor.)

Rossiter, Jay A., and C. C. Saner, Houston, Tex. Concrete-building mold. No. 1,375,109; Apr. 19; v. 285; p. 438.

Rotary Rod Weeder and Manufacturing Company. (See Van Patten, L. C., and Wolfe, assignors.)

Rotermund, William F., Seattle, Wash. Quick-adjusting wrench. No. 1,373,529; Apr. 5; v. 285; p. 30.

Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Pulley construction. No. 1,373,675; Apr. 5; v. 285; p. 57.

Rouch, John A. and T. H. Hastie, Tulsa, Okla. Window-lock. No. 1,373,977; Apr. 5; v. 285; p. 117.

Rounds, Fred, Los Angeles, Calif. Mop-holder. No. 1,375,321; Apr. 19; v. 285; p. 479.

Rovelli, Angelo C., assignor to Pivot Button Company, Inc., Philadelphia, Pa. Pin-on button. No. 1,375,231; Apr. 19; v. 285; p. 463.

Rowe, Jesse G., Jr., Davis, Calif. Auger and driver. No. 1,375,066; Apr. 19; v. 285; p. 430.

Rowe, William N., Hilling, Minn. Section-carrier for steam-shovels. No. 1,374,527; Apr. 12; v. 285; p. 264.

Rowell, Herbert G. (See Breneman, W. P., and Rowell.)

Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Cylinder of internal-combustion engines. No. 1,375,110; Apr. 19; v. 285; p. 438.

Rowley, James F., Chicago, Ill. Artificial limb. No. 1,375,860; Apr. 26; v. 285; p. 613.

Rozana Petroleum Company of Oklahoma. (See Crosby, P. A., Matthews, and High, assignors.)

Royle, Vernon, Paterson, N. J. Dimensioning gage for linotype-slug cutters. No. 1,375,323; Apr. 19; v. 285; p. 479.

Ruhlman, John S., Trenton, N. J. Repair outfit for music-rolls. No. 1,373,978; Apr. 5; v. 285; p. 118.

Ruppert, Radid, Westminster, Md. Cutting implement. No. 1,374,768; Apr. 12; v. 285; p. 309.

Rush, Allan C., Los Angeles, Calif. Breakwater and pier and making the same. No. 1,375,232; Apr. 19; v. 285; p. 462.

Rush, William A. (See Rice, F. E., and Rush.)

Russell, George E. (See Cary, F. S., and Russell.)

Russell, John K., Waterloo, N. Y. Machine for cleaning blackboard-erasers. No. 1,375,642; Apr. 19; v. 285; p. 540.

Russell, John M., San Francisco, Calif. Amusement device. No. 1,373,765; Apr. 5; v. 285; p. 74.

Russell, William H., New Haven, Conn. Combination dustpan and broom. No. 1,375,017; Apr. 19; v. 285; p. 420.

Ruthven, Alfred L., assignor to Simplex Train Control Company, Inc., Rochester, N. Y. Electromagnetic train-control and danger-indicating means and recording means. No. 1,374,954; Apr. 19; v. 285; p. 408.

Ryals, Dudley R., Richmond, Va. Telegraph-pole. No. 1,373,979; Apr. 5; v. 285; p. 118.

Ryan, Fred H., *et al.* (See Hale, R. J., and Doyle, assignors.)

Ryon, Edward A., assignor to F. W. Siemens, Wellsboro, Pa. Glass-grinding machine. No. 1,373,835; Apr. 5; v. 285; p. 89.

Ryon, Edward A., assignor to F. W. Siemens, Wellsboro, Pa. Glass-grinding machine. No. 1,373,836; Apr. 5; v. 285; p. 89.

Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-placer. No. 1,375,732; Apr. 26; v. 285; p. 589.

Sabin, John. (See Crass, George H., assignor.)

Sadler, F. H. Company. (See Bottomley, Arthur L., assignor.)

Safety Nut & Bolt Company, The. (See Stevenson, Ralph D., assignor.)

Safety Truck Brake Co. (See Halladay, Fred G., assignor.)

Salerno, Anthony G., Chicago, Ill. Collar. No. 1,375,182; Apr. 19; v. 285; p. 452.

Salmon, James P., *et al.* (See Dunn, Edmund L., assignor.)

Samokiscznk, Anton. (See Marzak, Frank, assignor.)

Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Apparatus for condensing steam and heating feed-water. No. 1,375,977; Apr. 26; v. 285; p. 635.

Samuelson, Julius S., Duluth, Minn. Liquid-vending machine. No. 1,373,914; Apr. 5; v. 285; p. 104.

Sanche, Henri. (See Byrns, G., and Sanche.)

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Brush-holder. No. 1,376,041; Apr. 26; v. 285; p. 648.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Tone-arm construction. No. 1,376,042; Apr. 26; v. 285; p. 648.

Sandor, Ferdinand, Theresa, Saskatchewan, Canada. Flower-pot. No. 1,376,117; Apr. 26; v. 285; p. 663.

Saner, Curtis C. (See Rossiter, J. A., and Saner.)

Sanford, Joseph R., Salisbury, Conn. Auto-top window-frame. No. 1,375,733; Apr. 26; v. 285; p. 589.

Sanitax Brush Company. (See Hastings, Rolland T. R., assignor.)

Sargent & Company. (See Sargent, Edward R., assignor.)

Sargent & Company. (See Shaw, John H., assignor.)

Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,374,327; Apr. 12; v. 285; p. 224.

Sather, Oscar C., Minneapolis, Minn. Paintbrush carrying and preserving case. No. 1,373,766; Apr. 5; v. 285; p. 74.

Saunders, Mary E., Philadelphia, Pa. Load-binder for vehicles. No. 1,375,183; Apr. 19; v. 285; p. 452.

Saurer, firm of Adolph. (See Mayer, H., Schlatter, and Baltensweiler, assignors.)

Sauvage, Herbert J., assignor to A. D. Shoup Company, Chicago, Ill. Box-making machine. No. 1,376,361; Apr. 26; v. 285; p. 709.

Sauze, Eugene, St. Etienne, Frances. Artificial leg. No. 1,376,292; Apr. 26; v. 285; p. 696.

Savidge, S. L. (See Ford, Claud J., assignor.)

Savino, Camillo, New York, N. Y. Motor. No. 1,375,018; Apr. 19; v. 285; p. 420.

Savy, Emile, Paris, France. Machine for cooling chocolate and other materials. No. 1,375,734; Apr. 26; v. 285; p. 589.

Sawtelle, Edmund M., Englewood, N. J., assignor to J. P. Carter, Greenwich, Conn., and R. L. Squibb, Lawrenceburg, Ind. Wood distillation. No. 1,374,887; Apr. 12; v. 285; p. 333.

Sawyer, Charles A., Jr., Newton, Mass. Leather-working machine. No. 1,375,935; Apr. 26; v. 285; p. 628.

Sawyer, William D. (See Carrie, James, assignor.)

Sayo, Kotaro, San Francisco, Calif. Roll-film-turning device. No. 1,375,324; Apr. 19; v. 285; p. 479.

Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Device for trolley-conductors. No. 1,374,528; Apr. 12; v. 285; p. 264.

Schaefer, William H., New York, N. Y. Inhaler. No. 1,375,325; Apr. 19; v. 285; p. 479.

Schafer, Louis, St. Louis, Mo. Burial-receptacle. No. 1,373,915; Apr. 5; v. 285; p. 105.

Schakel, Jacob D., assignor to Elevator Company of America, Chicago, Ill. Self-oiling bearing for elevator-machines. No. 1,373,570; Apr. 5; v. 285; p. 37.

Schaller, Elisle, *et al.* (See Schaller, William F., assignor.)

Schaller, Irma H., *et al.* (See Schaller, William F., assignor.)

Schaller, William F., assignor of one-third to E. Schaller and one-third to I. H. Schaller, San Francisco, Calif. Drier. No. 1,373,767; Apr. 5; v. 285; p. 75.

Scharfhausen, William, Spencer, Idaho. Stove-lid. No. 1,375,978; Apr. 26; v. 285; p. 636.

Scharl, John, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J. Making articles of quartz glass. No. 1,375,657; Apr. 19; v. 285; p. 542.

Schat, Ane P., Utrecht, Netherlands. Collapsible lifeboat-chock. No. 1,373,768; Apr. 5; v. 285; p. 75.

Schell, Dayton I., Jackson, Mich. Clothesline-pole. No. 1,374,609; Apr. 12; v. 285; p. 279.

Schenk, Ella M., administratrix. (See Schenk, John M.)

Schenk, John M., deceased, by E. M. Schenk, administratrix, assignor to E. M. Schenk, Waterloo, Iowa. Concrete building-block. No. 1,374,955; Apr. 19; v. 285; p. 408.

Scheurer, Robert C., West Hoboken, and F. G. Greenberg, Union Hill, N. J. Attachment for cycloramic-scenery battens. No. 1,375,538; Apr. 19; v. 285; p. 520.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Detachable tire for tractor-wheels. No. 1,373,530; Apr. 5; v. 285; p. 30.

Schicke, Josef F., trustee. (See Schicke, Josef F., assignor.)

Schicke, Josef F., assignor to J. F. Schicke, trustee, St. Louis, Mo. Combination-lock. No. 1,374,769; Apr. 12; v. 285; p. 310.

Schield, Wm. (See Gilda, John R., assignor.)

Schlatter, Gustav. (See Mayer, H., Schlatter, and Baltensweiler.)

Schlemmer, George, New York, N. Y. Filing-case for talking-machine records. No. 1,376,118; Apr. 26; v. 285; p. 663.

Schlesinger, Louis. (See Bethke, John P., assignor.)

Schmidt, Albert. (See Champion, A., and Schmidt.)

Schmidt, Augustus F., assignor to J. H. Roney, trustee, Pittsburgh, Pa. Mechanism for controlling the admission of air and gasolene to explosive-engines. No. 1,375,610; Apr. 19; v. 285; p. 573.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade-mounting. No. 1,375,111; Apr. 19; v. 285; p. 438.

Schmidt, John, New York, N. Y. Valve-cap. No. 1,374,395; Apr. 12; v. 285; p. 237.

Schmidt, John, New York, N. Y. Valve-cap. No. 1,374,396; Apr. 12; v. 285; p. 238.

Schneider, Anthony, Whippany, N. J., assignor to American Cigar Company, New York, N. Y. End-opening carton. No. 1,374,956; Apr. 19; v. 285; p. 408.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Wheeled axle for gun-carriages and other vehicles suspended on springs. No. 1,374,238; Apr. 12; v. 285; p. 207.

Schneider, Jean J. M. A. E., Paris, France. Apparatus for regulating the effective surface of the radiators of aeroplane-engines. No. 1,374,610; Apr. 12; v. 285; p. 280.

Schneider, Lawrence A., and A. R. Meyer, Springfield, Minn. Cow-halter. No. 1,375,184; Apr. 19; v. 285; p. 453.

Schneider, Richard. (See Schwab, B., Schneider, and Hoengenauer.)

Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Robe-holder for automobiles. No. 1,375,611; Apr. 19; v. 285; p. 633.

Schopf, Michael F., and L. J. Christianson, Chicago, Ill. Antiskid device. No. 1,375,735; Apr. 26; v. 285; p. 589.

Schorr, Robert, San Francisco, Calif. Direct-driven deep-well pump. No. 1,374,116; Apr. 5; v. 285; p. 143.
Schott, Rudolf F. (See Feddersen, E. A., and Schott.)
Schraeder's, A., Son. (See Kraft, Henry P., assignor.)
Schramm, Henry A., and J. D. Hawkins, San Antonio, Tex. Memorandum-calendar. No. 1,374,239; Apr. 12; v. 285; p. 207.
Schraner, William. (See Haeger, R. Schraner, and Haeger.)
Schrepfer, Hugo, West Hoboken, N. J. Novelty. No. 1,376,167; Apr. 26; v. 285; p. 672.
Schroeder, David H., Slater, Iowa. Lamp-burner. No. 1,375,936; Apr. 26; v. 285; p. 628.
Schroeder, Otto F., Santa Ana, Calif. Audible signal for pneumatic tires. No. 1,373,453; Apr. 5; v. 285; p. 14.
Schroeder, William A., Seattle, Wash. Controllable headlight-screen. (Reissue.) No. 15,088; Apr. 12; v. 285; p. 336.
Schroeder, William A., Seattle, Wash. Dimming device for headlights. No. 1,375,418; Apr. 19; v. 285; p. 497.
Schror, George L. (See Schror, Theodore H. and G. L.)
Schror, Theodore H. and G. L., Avon, N. Y. Game. No. 1,375,262; Apr. 19; v. 285; p. 467.
Schuler, Harry L., Bloomington, Ill. Attachment for steering mechanism of motor-driven vehicles. No. 1,375,419; Apr. 19; v. 285; p. 497.
Schulte, Louis, Pittsburgh, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Renovating polishing-plates. No. 1,373,837; Apr. 5; v. 285; p. 89.
Schultz, Charles, New York, N. Y. Holder for disk records. No. 1,374,240; Apr. 12; v. 285; p. 207.
Schultze, Theodore C., assignor to H. Lucas, Grand Rapids, Mich. Fruit-picker. No. 1,373,531; Apr. 5; v. 285; p. 30.
Schumacher, Joseph E., Los Angeles, Calif. Collapsible and expansible shelter. No. 1,375,420; Apr. 19; v. 285; p. 497.
Schussler, John H., Chicago, Ill. Auxiliary track for printing-presses. No. 1,373,454; Apr. 5; v. 285; p. 14.
Schwab, Bruno, Schneider, Richard, and Hoegenauer, Haver, San Antonio, Tex. Cotton-chopper. No. 1,374,474; Apr. 12; v. 285; p. 253.
Schwagermann, William, Yonkers, N. Y., assignor to Ward Leonard Electric Company. Rheostat. No. 1,374,241; Apr. 12; v. 285; p. 208.
Schwartz, William R., Independence, N. D. Plow attachment. No. 1,374,033; Apr. 5; v. 285; p. 127.
Schwarz, Charles L., Philadelphia, Pa. Copying-lathe. No. 1,375,326; Apr. 19; v. 285; p. 480.
Schwarz, Elmer H., Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,375,736; Apr. 26; v. 285; p. 590.
Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Ignition-timing mechanism. No. 1,375,263; Apr. 19; v. 285; p. 467.
Schweinert, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Inflating-coupling. No. 1,374,397; Apr. 12; v. 285; p. 238.
Schweizer-Cailiaux, Jean F., Vincennes, France. Hat-protector. No. 1,373,713; Apr. 5; v. 285; p. 64.
Schylander, John F., assignor of one-half to F. A. Diener, Chicago, Ill. Automobile-lock. No. 1,375,737; Apr. 26; v. 285; p. 590.
Scientific Heater Company, The. (See Kuenhold, Otto J.)
Scoppola, Giorgio, Rome, Italy. Plug-socket. No. 1,374,838; Apr. 5; v. 285; p. 89.
Scotcher, Charles A., Braintree Highlands, assignor to The A. O. Crawford Co. Inc., South Weymouth, Mass. Collapsible box. No. 1,374,473; Apr. 12; v. 285; p. 253.
Scott, David J., *et al.*, executors. (See Drange, Carl E., assignor.)
Scott, George H. (See McCampbell, R. F., Scott, and Smith.)
Scott, Isabella, *et al.*, executors. (See Drange, Carl E., assignor.)
Scott, James E., Louisville, Ky. Railway-brake. No. 1,374,034; Apr. 5; v. 285; p. 127.
Scott, Jennie, St. Paul, Minn. Protecting-shield for use in baking pastry. No. 1,375,539; Apr. 19; v. 285; p. 520.
Scott, Joe. (See Clark, Alfred C., assignor.)
Scott, Nathaniel G., New Orleans, La. Pile-driver. No. 1,375,738; Apr. 26; v. 285; p. 590.
Scott-Paine, Hubert, Southampton, England. Tail-plane and the like for aircraft. No. 1,375,421; Apr. 19; v. 285; p. 498.
Scott, Robert W., Babylon, N. Y., assignor to Scott & Williams, Incorporated. Yarn feeding and severing mechanism for knitting-machines. No. 1,373,676; Apr. 5; v. 285; p. 57.
Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Knitting reinforced fabrics. No. 1,373,769; Apr. 5; v. 285; p. 75.
Scott, Robert W., New York, N. Y., assignor, by mesne assignments, to Scott & Williams, Incorporated. Mechanism for knitting reinforced fabrics. No. 1,373,770; Apr. 5; v. 285; p. 75.
Scott, Walter A., Chicago, Ill., assignor to Mineral Separation North American Corporation. Ore-concentration process. No. 1,375,233; Apr. 19; v. 285; p. 462.
Scott & Williams. (See Scott, Robert W., assignor.)
Scrivani, Benedickt, Camden, N. J. Harmony-box for talking-machines. No. 1,373,677; Apr. 5; v. 285; p. 57.
Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube apparatus. No. 1,375,739; Apr. 26; v. 285; p. 590.
Searle, Alexander H., and O. Duryea, Brooklyn, N. Y. Apparatus for forming bucket-bodies. No. 1,375,937; Apr. 26; v. 285; p. 628.
Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,112; Apr. 19; v. 285; p. 439.
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Drill-table mechanism. No. 1,376,168; Apr. 26; v. 285; p. 672.
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Supporting and clamping mechanism for drilling-machines. No. 1,376,169; Apr. 26; v. 285; p. 672.
Seaton, Benjamin C., Nashville, Tenn. Pneumatic tire. No. 1,374,957; Apr. 19; v. 285; p. 408.
Seaton, Strowbridge B., assignor to International Tag Co., Chicago, Ill. Shipping-tag. No. 1,373,916; Apr. 5; v. 285; p. 105.
Secretary of War, trustee. (See Ragsdale, Earl J. W., assignor.)
Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Forming apparatus. No. 1,375,802; Apr. 26; v. 285; p. 602.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,375,113; Apr. 19; v. 285; p. 439.
Seifert, John W., Houston, Tex. Washing-machine. No. 1,373,917; Apr. 5; v. 285; p. 105.
Seifert, John W., Houston, Tex. Washing-machine. No. 1,374,958; Apr. 19; v. 285; p. 408.
Seiter, Albert J., Prospect, Ohio. Roller-tractor. No. 1,375,185; Apr. 19; v. 285; p. 453.
Sekula, Andrew, Washington, Pa. Toy gun. No. 1,374,242; Apr. 12; v. 285; p. 208.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,019; Apr. 19; v. 285; p. 420.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Manufacturing ball-bearings. No. 1,375,020; Apr. 19; v. 285; p. 421.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,021; Apr. 19; v. 285; p. 421.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,022; Apr. 19; v. 285; p. 421.
Semple, William G., North Tonawanda, N. Y. Ironing-board. No. 1,374,398; Apr. 12; v. 285; p. 238.
Seppi, Frank. (See Nordwick, Henry A., assignor.)
Seurin, Pierre, Paris, France. Device for controlling from a distance the windows of motor-cars and other vehicles. No. 1,375,612; Apr. 19; v. 285; p. 534.
Shackleton, Alfred, Chicago, Ill. Variable-speed power-transmission device. No. 1,375,327; Apr. 19; v. 285; p. 480.
Shafer, Gilbert C. (See Hellems, L. M., and Shafer, assignors.)
Shallor, Frank E., assignor to G. A. Gloor, Detroit, Mich. Chuck or holder. No. 1,374,399; Apr. 12; v. 285; p. 238.
Shamblen, Lester B., assignor of one-half to United Alfalfa Company, Omaha, Nebr. Bag-holder. No. 1,373,830; Apr. 5; v. 285; p. 89.
Shamm, Montague H. C., Wodonga, Victoria, Australia. Mechanical control of sails. No. 1,376,170; Apr. 26; v. 285; p. 673.
Sharkoff, Eugene F., Washington, D. C. Shoe-holding device. No. 1,373,771; Apr. 5; v. 285; p. 75.
Sharp, Joseph W., Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury Incorporated. Bath-trap. No. 1,375,023; Apr. 19; v. 285; p. 421.
Sharp, William H., assignor to Bauer & Black, Chicago, Ill. Surgical swab. No. 1,375,861; Apr. 26; v. 285; p. 613.
Sharples, David T., West Chester, Pa. Flexible spindle-coupling. No. 1,373,772; Apr. 5; v. 285; p. 75.
Sharples, Philip T., and Davids, Pa. Resolving emulsions. No. 1,373,773; Apr. 5; v. 285; p. 76.
Sharples Specialty Company, The. (See Jones, Leo D., assignor.)
Shaughnessy, Ambrose J., Islip, N. Y. Combined mud-guard and motor-cooler. No. 1,374,475; Apr. 12; v. 285; p. 253.
Shaw, Harry L., Lorain, Ohio. Adjustable watch-dial. No. 1,375,470; Apr. 19; v. 285; p. 507.
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock for gear-shift levers. No. 1,374,169; Apr. 5; v. 285; p. 153.
Shaw, Richard, assignor to De Bergue & Company Limited, Manchester, Lancaster, England. Spacing mechanism. No. 1,376,293; Apr. 26; v. 285; p. 696.
Shea, Elizabeth C., *et al.* (See La Paugh, Louie T., assignor.)
Shea, Joseph W., *et al.* (See La Paugh, Louie T., assignor.)
Sheeley, James C., Pasadena, Calif. Collapsible concrete-form. No. 1,375,328; Apr. 19; v. 285; p. 480.
Sheets, William O., *et al.* (See McCrie, Queenie, assignor.)
Sheffey, Billie M. (See McNeill, William M., assignor.)

Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,375,802; Apr. 26; v. 285; p. 613.
Shelton, Joseph A., Henderson, Ky. Trolley construction for barbers' electrical equipment. No. 1,374,117; Apr. 5; v. 285; p. 143.
Shepard, Seth W., Leominster, Mass., assignor to The Howe Comb Company. Fastening device for ladies' handbags or vanity-cases. No. 1,375,114; Apr. 19; v. 285; p. 439.
Sheppard, Creedy C., Bridgeport, Conn., assignor to United States Ordnance Company of Washington, D. C. Rifle-grenade. No. 1,376,119; Apr. 26; v. 285; p. 663.
Sherer, Glen D., assignor of two-fifths to L. L. Long, Connell, Wash. Air-filtering device. No. 1,375,422; Apr. 19; v. 285; p. 498.
Sherman, Arthur G., Detroit, Mich. Bottle-stopper. No. 1,375,471; Apr. 19; v. 285; p. 507.
Sherwood, Carey, Lowell, Mass. Adjustable shaft-hanger. No. 1,374,865; Apr. 12; v. 285; p. 329.
Sherwood, Charles F., Los Angeles, Calif. Shaft-bearing. No. 1,376,043; Apr. 26; v. 285; p. 648.
Sherwood, Daniel R., Plainfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., Plainfield, N. J. Spring-toggle. No. 1,374,959; Apr. 19; v. 285; p. 408.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,374,611; Apr. 12; v. 285; p. 280.
Shine, John, Houston, Tex. Attachment for internal-combustion motors. No. 1,376,294; Apr. 26; v. 285; p. 697.
Shinn, Mary C., Seattle, Wash. Rotary surface-brush. No. 1,374,476; Apr. 12; v. 285; p. 254.
Shipman, Emanuel F., Philadelphia, Pa., assignor to Industrial Products Company. Collapsible tool-bag for linemen. No. 1,374,960; Apr. 19; v. 285; p. 409.
Shirek, Siegfried, and W. H. Fenton, Portland, Oreg. Combination automobile-bed. No. 1,374,400; Apr. 12; v. 285; p. 238.
Shively, Frank J., Canton, Ohio. Door-iron. No. 1,374,774; Apr. 5; v. 285; p. 76.
Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Producing fertilizer. No. 1,375,115; Apr. 19; v. 285; p. 439.
Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Production of aluminum chlorid. No. 1,375,116. Apr. 19; v. 285; p. 439.
Shoemaker, Charles P., Wilkes-Barre, Pa. Reel-fly rack. No. 1,375,613; Apr. 19; v. 285; p. 534.
Shoff, Emma I., East Prospect, Pa. Clasp. No. 1,375,329; Apr. 19; v. 285; p. 480.
Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,375,067; Apr. 19; v. 285; p. 430.
Shoup, A. D., Company. (See Sauvage, Herbert J., assignor.)
Showers, Lee, Charleroi, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Finishing glass. No. 1,373,532; Apr. 5; v. 285; p. 30.
Shryock, G. Henry. (See Solomon, Randolph, assignor.)
Shull, Elbert W., assignor of one-half to K. E. Anderson, Cowley, Wyo. Carbon-producing apparatus. No. 1,375,234; Apr. 19; v. 285; p. 462.
Shults, Maude, St. Johnsville, N. Y. Laundry-tub. No. 1,373,980; Apr. 5; v. 285; p. 118.
Shumsky, Solmon, Brooklyn, N. Y. Sofa-bedstead. No. 1,374,961; Apr. 19; v. 285; p. 409.
Shur Products, Inc. (See Adams, Frank A., assignor.)
Sibley, Irving A., Jr., Chicago, Ill. Bracket for vehicles. No. 1,376,044; Apr. 26; v. 285; p. 648.
Sibson, Walter W. (See Allsop, T., and Sibson.)
Sicard, Hugh C., Buffalo, N. Y. Production of low-carbon ferrozirconium. No. 1,374,037; Apr. 5; v. 285; p. 128.
Sicard, Hugh C., Buffalo, N. Y. Producing zirconium steel. No. 1,374,038; Apr. 5; v. 285; p. 128.
Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing low-carbon ferrotitanium. No. 1,374,035; Apr. 5; v. 285; p. 127.
Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing low-carbon ferrotitanium. No. 1,374,036; Apr. 5; v. 285; p. 128.
Sieck, William, Jr. (See Drucker, S., and Sieck.)
Siegel, Frederick W., Newark, F. J. Boyle, Harrison, and J. M. Sipp, Newark, N. J. Rotatable dice. No. 1,374,243; Apr. 12; v. 285; p. 208.
Siemens & Halske, Aktiengesellschaft. (See Mansel, Paul, assignor.)
Siemens, Fred W. (See Ryon, Edward A., assignor.)
Siemens Schuckert Werke G. m. b. H. (See Ilg, Max J., assignor.)
Siemer, Martin, New York, N. Y. Lock. No. 1,373,678; Apr. 5; v. 285; p. 58.
Siewers, Walter L., assignor to The Indera Mills, Winston-Salem, N. C. Knit garment. No. 1,374,155; Apr. 5; v. 285; p. 150.
Silkworth, Amos P. (See Silkworth, Charles E., and A. P.)
Silkworth, Charles E., and A. P., Atlantic City, N. J. Game. No. 1,373,679; Apr. 5; v. 285; p. 58.
Silvernale, William N., Kawkawlin, Mich., assignor to Benson Electric Company. Valve. No. 1,374,244; Apr. 12; v. 285; p. 208.
Silva, Franklyn J. (See Kahn, M. M., and Silva.)
Silver Manufacturing Company, The. (See Haldeman, James C., assignor.)
Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Connector-plug. No. 1,374,529; Apr. 12; v. 285; p. 264.
Simmons, Leo, Washington, D. C. Guard for protection against boldup-robbers and the like. No. 1,374,770; Apr. 12; v. 285; p. 310.
Simplex Train Control Company. (See Ruthven, Alfred L., assignor.)
Simpson, Herbert J., Norton-on-Tees, England. Mechanical starter for internal-combustion engines. No. 1,375,472; Apr. 19; v. 285; p. 507.
Sincak, George, Bridgeport, Conn. Combined window and transom. No. 1,375,186; Apr. 19; v. 285; p. 453.
Sipp, John M. (See Siegel, F. W., Boyle, and Sipp.)
Sisson, Eugene, Hudson, N. Y. Button-sewing machine. No. 1,375,235; Apr. 19; v. 285; p. 462.
Sjoberg, Sidney T. (See Payne, H. D., De Clerque, and Sjoberg.)
Skinder, Joseph K., Kenosha, Wis. Vise. No. 1,375,236; Apr. 19; v. 285; p. 462.
Skinner, Lewis B., Denver, Colo. Feeding apparatus. No. 1,375,643; Apr. 19; v. 285; p. 540.
Skoglund, Joseph A., St. Paul, Minn. Brush. No. 1,373,455; Apr. 5; v. 285; p. 15.
Skott, Christian, M. J. Rogne, and E. J. Rogne, Milwaukee, Wis. Power-driven post-hole excavator. No. 1,376,045; Apr. 26; v. 285; p. 648.
Slack, Harry F., Hove, assignor to S. S. Booty, Ealing, London, England. Box or receptacle for face-powder. No. 1,375,938; Apr. 26; v. 285; p. 628.
Slagle, Eugene H., Ennis, Tex. Carbon-removing tool. No. 1,374,530; Apr. 12; v. 285; p. 264.
Slater, Fred M. (See Bayles, L. C., and Slater.)
Slemmer, Frank G., Centerville, Md. Priming device. No. 1,374,401; Apr. 12; v. 285; p. 239.
Slinger, William J., St. Louis, Mo. Automobile heating device. No. 1,375,939; Apr. 26; v. 285; p. 629.
Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Process and apparatus for severing sheet-glass. No. 1,373,533; Apr. 5; v. 284; p. 30.
Smidth, F. L., & Co. (See Vogel-Jørgensen, Mikael, assignor.)
Smight, Frank B., assignor, by mesne assignments, to Hydro-Hoist Company, Milwaukee, Wis. Hydro-hoist. No. 1,374,888; Apr. 12; v. 285; p. 333.
Smith, A. O., Corporation. (See Smith, George M., assignor.)
Smith, Albert W., and W. R. Venzey, Cleveland, Ohio. Manufacture of metallic sodium. No. 1,375,330; Apr. 19; v. 285; p. 480.
Smith, Allen, Jr., San Diego, Calif. Oil-can. No. 1,373,534; Apr. 5; v. 285; p. 30.
Smith, Allen, Jr., San Diego, Calif. Oil-can. No. 1,373,535; Apr. 5; v. 285; p. 31.
Smith, Arthur A., and H. W. Paine, Eagle Grove, Iowa. Tire-chain lock and elastic take-up. No. 1,374,771; Apr. 12; v. 285; p. 310.
Smith, Arthur D., Arkansas City, Kans. Apparatus for distilling petroleum-oils. No. 1,374,402; Apr. 12; v. 285; p. 239.
Smith, Arthur G. (See Preston, Grace D., assignor.)
Smith, Augustus, Roselle, assignor to Bergen Point Iron Works, Bayonne, N. J. Ordnance. No. 1,376,231; Apr. 26; v. 285; p. 684.
Smith, Bernard P., St. Louis, Mo. Adjustable drain and trap for refrigerators. No. 1,375,423; Apr. 19; v. 285; p. 498.
Smith, Blaine H., and J. C. Warner, Tonkawa, Okla. Cranking device for internal-combustion engines. No. 1,375,117; Apr. 19; v. 285; p. 440.
Smith, C. E. Y. (See Nicholson, William R., assignor.)
Smith, Charles E., The Dalles, Oreg. Feed-indicating apparatus for baling-presses. No. 1,374,245; Apr. 12; v. 285; p. 208.
Smith, Charles F., assignor to Connecticut Aircraft Company, New Haven, Conn. Kite, captive or observation balloon. No. 1,376,121; Apr. 26; v. 285; p. 664.
Smith, Charles W., Chicago, Ill. Combined water-wheel and dam. No. 1,373,456; Apr. 5; v. 285; p. 15.
Smith, Charles W., Chambersburg, Ill. Reversible-disk attachment for corn-plows. No. 1,376,232; Apr. 26; v. 285; p. 684.
Smith, Clarence E., Naugatuck, assignor to Worcester Metal Goods Company, Waterbury, Conn. Bag-lock. No. 1,376,362; Apr. 26; v. 285; p. 709.
Smith, Clyde L., and E. S. Webster, South Bend, Ind. Belt-vulcanizing mold. No. 1,375,473; Apr. 19; v. 285; p. 507.
Smith, E. W., Philadelphia, C. D. Galloway, and C. Ambruster, Roslyn, Pa. Storage-battery plate or electrode. No. 1,374,477; Apr. 12; v. 285; p. 255.
Smith, Finis, Georgetown, Ill. Cutting-chain. No. 1,376,120; Apr. 26; v. 285; p. 663.
Smith-Foote Co. (See Smith, Walter B., assignor.)
Smith, Frank W., Kalamazoo, Mich. Antislip device for vehicle-wheels. No. 1,374,328; Apr. 12; v. 285; p. 224.
Smith, Fred M., Taft, Calif. Wrench. No. 1,376,295; Apr. 26; v. 285; p. 697.
Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,375,424; Apr. 19; v. 285; p. 498.

Smith, George H., Newport, R. I. Baby-carriage. No. 1,375,614; Apr. 19; v. 285; p. 531.
Smith, George M., Cleveland, Ohio. Tractor. No. 1,373,981; Apr. 5; v. 285; p. 118.
Smith, George M., Canton, Ohio, assignor to A. O. Smith Corporation, Milwaukee, Wis. Drawing-press. No. 1,373,571; Apr. 5; v. 285; p. 38.
Smith, George Q. (See McCampbell, R. F. Scott, and Smith.)
Smith, Godfrey L., Newport News, Va. Curing cement. No. 1,374,403; Apr. 12; v. 285; p. 239.
Smith, Harold J., assignor of one-half to H. F. Baker, Chicago, Ill. Music-roll-stenciling machine. No. 1,375,331; Apr. 19; v. 285; p. 481.
Smith, Harvey G., Los Angeles, Calif. Windshield. No. 1,373,840; Apr. 5; v. 285; p. 90.
Smith, Henry, Hamtramck, Mich. Polishing-brush. No. 1,374,772; Apr. 12; v. 285; p. 310.
Smith, Henry M., Ottumwa, Iowa. Gage and level. No. 1,373,982; Apr. 5; v. 285; p. 118.
Smith, Hugh B., *et al.* (See Kearns, William S., assignor.)
Smith, Ivan E. (See James, G. F., and Smith.)
Smith, Jesse D., Holton, Ind. Pulverizer. No. 1,375,425; Apr. 19; v. 285; p. 498.
Smith, John A., Washington, D. C. Electric signal for automobiles and other vehicles. No. 1,375,540; Apr. 19; v. 285; p. 520.
Smith, Lulu M. (See Cookson, William S., assignor.)
Smith, Malcom O., Indianapolis, Ind., assignor to Permalife Storage Battery Co., Poughkeepsie, N. Y. Storage battery. No. 1,376,171; Apr. 26; v. 285; p. 673.
Smith, Manning J., Philadelphia, Pa. Power-transmission belt. No. 1,373,457; Apr. 5; v. 285; p. 15.
Smith, Nathan, New York, N. Y. Marking materials. No. 1,374,329; Apr. 12; v. 285; p. 225.
Smith, O. A., Corporation. (See Smith, R. S., Andren, and Miller, assignors.)
Smith, Oscar A., assignor to The National Acme Company, Cleveland, Ohio. Rotary milling and slotting machine. No. 1,374,962; Apr. 19; v. 285; p. 409.
Smith, Reuben S., assignor to Briggs & Stratton Company, Milwaukee, Wis. Motor-wheel for bicycles. No. 1,373,918; Apr. 5; v. 285; p. 105.
Smith, Reuben S., B. T. Andren and H. Miller, Milwaukee, Wis.; said Andren and said Miller assignors to A. O. Smith Corporation, Milwaukee, Wis. Drawing-press. No. 1,373,572; Apr. 5; v. 285; p. 38.
Smith, Sam R., Los Angeles, Calif. Collapsible bed structure. No. 1,374,531; Apr. 12; v. 285; p. 264.
Smith, Taylor J., Union City, Ga. Cotton-picker. No. 1,373,983; Apr. 5; v. 285; p. 118.
Smith, Thomas A., Ashley, Pa. Window-lock. No. 1,374,773; Apr. 12; v. 285; p. 310.
Smith, Walter B., assignor to Smith-Foote Co., Sioux City, Iowa. Motor-cranking device. No. 1,375,940; Apr. 26; v. 285; p. 629.
Smithe, F. L., Machine Company. (See Novick, Abraham, assignor.)
Snead & Co. Iron Works, The. (See Macdonald, Angus S. and H. P., assignors.)
Snead & Co., Iron Works, The. (See Macdonald, Harry P., assignor.)
Sneddon, James P., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Extrusion-press for the manufacture of steel tubes. No. 1,375,426; Apr. 19; v. 285; p. 499.
Snelling, Walter O., Allentown, Pa. Photo-electric apparatus. No. 1,375,474; Apr. 19; v. 285; p. 508.
Snelling, Walter O., Allentown, Pa. Vulcanized-oil product. No. 1,376,172; Apr. 26; v. 285; p. 673.
Snelling, Walter O., Allentown, Pa. Vulcanized-oil products. No. 1,376,173; Apr. 26; v. 285; p. 673.
Snelling, Walter O., Allentown, Pa. Vulcanized-oil product. No. 1,376,174; Apr. 26; v. 285; p. 673.
Snow, Arthur E., assignor to The American Laundry Machinery Company, Norwood, Ohio. Puff-iron. No. 1,376,045; Apr. 26; v. 285; p. 649.
Snow, Charles S. H., Hampstead, London, England. Nut-lock. No. 1,376,296; Apr. 26; v. 285; p. 697.
Snow, Ernest W., Rochester, N. Y. Fuse. No. 1,374,246; Apr. 12; v. 285; p. 209.
Snow, Isaac, Lawrence, Mass. Shuttle. No. 1,375,187; Apr. 19; v. 285; p. 453.
Societa Anonima Manifattura Luigi Duca. (See Duca, Luigi, assignor.)
Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Channy & Circy. (See Debaecker, Georges H. L., assignor.)
Societe Chimique Des Usines Du Rhone anciennement Gilliard P. Monnet et Cartier). See Altwegg, J. and Ebin, assignors.)
Societe Des Moteurs Salmson (Systeme Canton-Unne.) (See Postel-Vinay, Pierre J. R. assignor.)
Societe Les Petits Fils De Francois De Wendel Et Cie. (See Weber, Guillaume, assignor.)
Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)
Society of Chemical Industry in Basle. (See Jagerspacher, Carl, assignor.)
Soldani, Girolamo, Spencer, Mass. Tire-shield. No. 1,373,984; Apr. 5; v. 285; p. 119.
Soldani, Girolamo, Spencer, Mass. Combined tire-armor and antiskid device. No. 1,373,985; Apr. 5; v. 285; p. 119.
Soldani, Girolamo, Spencer, Mass. Ice-cream-cone dispenser. No. 1,373,986; Apr. 5; v. 285; p. 119.
Solomon, Randolph, Alexandria, assignor of one-half to G. Henry Shryock, Herndon, Va. Packingless valve. No. 1,374,774; Apr. 12; v. 285; p. 311.
Soncini, Cesare, Pont St. Martin, Italy. Electric furnace. No. 1,375,615; Apr. 19; v. 285; p. 534.
Songey, Elmo, Asheville, N. C. Window-fastener. No. 1,376,122; Apr. 26; v. 285; p. 664.
Soons, James E., New York, and H. Robinson, Brooklyn, assignors of one-half to E. Caterson, Woodlawn, New York, N. Y. Automatic arc-regulator. No. 1,374,404; Apr. 12; v. 285; p. 239.
Sorenson, James, assignor to Four Wheel Drive Auto Co., Clintonville, Wis. Treating steel and iron parts. No. 1,373,573; Apr. 5; v. 285; p. 38.
Sosa, Augustus M., assignor to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,375,024; Apr. 19; v. 285; p. 422.
Souliotis, Kyriakos, assignor of one-half to S. Nicholson, Washington, D. C. Life-saving suit. No. 1,375,803; Apr. 26; v. 285; p. 602.
South, Joseph W., Memphis, Tenn. Safety device for picture-projecting apparatus. No. 1,376,297; Apr. 26; v. 285; p. 697.
Southgate, George T., New York, N. Y. Electric fixation of gases. No. 1,373,639; Apr. 5; v. 285; p. 50.
Spalding, A. G., & Bros. (See Pierce, Howard M., assignor.)
Spatz, Edward L. (See Bruner, Joseph V., assignor.)
Spenard, Napoleon, assignor of one-half to Ernest L. Morrill, Biddeford, Me. Loom-shuttle. (Reissue.) No. 15,087; Apr. 12; v. 285; p. 336.
Spencer Lens Co. (See Ott, H. N., and Bufton, assignors.)
Spencer, Louis R., Hartford, Conn. Apparatus for gaging engine-pistons. No. 1,375,237; Apr. 19; v. 285; p. 462.
Spencer, Samuel A., Salt Lake City, Utah. Adjustable flue extension. No. 1,374,866; Apr. 12; v. 285; p. 329.
Sperry Gyroscope Company, The. (See Meitner, Elemer, assignor.)
Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
Spillman, William J., Washington, D. C. Perpetual calendar. No. 1,374,532; Apr. 12; v. 285; p. 265.
Spinasse, Arthur E., Mount Vernon, Ohio. Glass-tank. No. 1,375,941; Apr. 26; v. 285; p. 629.
Spitzer, Jacob, New York, N. Y., assignor to Universal Mercerizing & Dyeing Co., Inc. Mercerizing-machine. No. 1,374,118; Apr. 5; v. 285; p. 143.
Splitdorf Electrical Company. (See Sullivan, Maurice P., assignor.)
Spokane Concrete Flower Pot Machine Co. (See Bewley, Claude G., assignor.)
Sprague Canning Machinery Company. (See Babcock, Leland A., assignor.)
Spray Engineering Company. (See Parker, Lee H., assignor.)
Spreitzer, Larence, Hammond, Ind., assignor to Edward Valve and Manufacturing Company, Chicago, Ill. Diehead. No. 1,376,047; Apr. 26; v. 285; p. 649.
Sproessig, Oscar. (See Franks, G., and Sproessig.)
Squarcialupi, Giovanni, *et al.* (See Barchiesi, Aurelio, assignor.)
Squibb, Robert L., *et al.* (See Sawtelle, Edmund M., assignor.)
St. Louis Brass Manufacturing Company. (See Guth, Edwin F., assignor.)
Stach, Howard J. (See Weatherly, S. M., and Stach.)
Stafford, Leo K., Detroit, Mich., assignor to The Stafford Roller-Bearing Car Truck Corporation, Carlstadt, N. J. Roller-bearing for railway-trucks. No. 1,374,775; Apr. 12; v. 285; p. 311.
Stafford Roller-Bearing Car Truck Corporation, The. (See Stafford, Leo K., assignor.)
Stairs, James H., assignor to Home-Crest Mills Corporation, Philadelphia, Pa. Driving mechanism for looms. No. 1,375,942; Apr. 26; v. 285; p. 629.
Stallkamp, Albert L. (See Koch, G. T., and Stallkamp.)
Stannaland, John L., Monitrie, Ga. Cane-mill. No. 1,373,680; Apr. 5; v. 285; p. 58.
Standard Oil Company of California. (See Gray, Edwin D., assignor.)
Standard Sanitary Manufacturing Company. (See Kalbfleisch, George C., assignor.)
Standard Steel Spring Company. (See d'Orville, Theodore L. R., assignor.)
Standard Textile Products Company, The. (See Thompson, Herbert S., assignor.)
Standard Underground Cable Company. (See Davis, C. W., and Brown, assignors.)
Standish, Charles F., Greene, N. Y. Fruit-jar opener. No. 1,374,612; Apr. 12; v. 285; p. 280.
Stanley, Sidney, Springfield, Mass. Drainer. No. 1,374,776; Apr. 12; v. 285; p. 311.
Stanton, John T., Seattle, Wash. Electrical appliance. No. 1,375,863; Apr. 26; v. 285; p. 613.
Stanton, Patrick J., Lundale, W. Va. Self-operating mine-door for locomotives. No. 1,374,478; Apr. 12; v. 285; p. 255.
Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,375,118; Apr. 19; v. 285; p. 440.
Stauffen, Charles F. (See Froehlick, Harry T., assignor.)

Steam Electric Products Company, The. (See Clark, Warren F., assignor.)
Steele, Edwin G. (See Sutton, H. M., and Steele.)
Steele, Walter L. (See Sutton, H. M., and Steele.)
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,373,919; Apr. 5; v. 285; p. 105.
Steiner, Bernhard, New York, N. Y. Press-stud. No. 1,376,298; Apr. 26; v. 285; p. 697.
Steiner, Fred W. (See Walton, Frank A., assignor.)
Steiner, Philip H., San Francisco, Calif. Self-aliining piston-valve. No. 1,374,405; Apr. 12; v. 285; p. 239.
Steinkamp, George F., Cincinnati, Ohio. Bath-chair. No. 1,374,685; Apr. 12; v. 285; p. 294.
Steinke, Lawrence L., Farmington, Ill. Barrel-cart. No. 1,374,406; Apr. 12; v. 285; p. 240.
Steinmeyer, William F. (See Wright, Jefferson G., assignor.)
Stenberg, Anders G., Galveston, Tex. Dredge-pump. No. 1,374,533; Apr. 12; v. 285; p. 265.
Stephen, David G., Monrovia, Calif. Tow-rope and hitch. No. 1,375,119; Apr. 19; v. 285; p. 440.
Stephens-Adamson Mfg. Co. (See Kendall, Myron A., assignor.)
Stephens, Clyde, Rosendale, Mo. Pneumatic jack and pump. No. 1,375,332; Apr. 19; v. 285; p. 481.
Stephens, Samuel F., assignor of one-third to W. J. Boyle, Sr., and one-third to C. G. Grant, Los Angeles, Calif. Apparatus for refining oils. No. 1,375,427; Apr. 19; v. 285; p. 499.
Stern, John, New York, N. Y. Garter-support. No. 1,375,188; Apr. 19; v. 285; p. 453.
Sternau, S., & Co. (See Bell, Henry P., assignor.)
Stevens, C. Amory. (See Collins, Caleb C., assignor.)
Stevens, Elbridge W., Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky. Catalysis. No. 1,374,119; Apr. 5; v. 285; p. 144.
Stevens, Isaac, assignor to Yawman and Erbe Mfg. Co., Rochester, N. Y. Furniture-model. No. 1,374,247; Apr. 12; v. 285; p. 209.
Stevens, Neal H., Katalla, Alaska. Cigarette holder and mouthpiece. No. 1,374,686; Apr. 12; v. 285; p. 294.
Stevens, Paul S. (See Wilkie, E. J., Stevens, and Lebman.)
Stevens, Sylvester G., Duluth, Minn. Door-operating device for hopper-cars. No. 1,374,248; Apr. 12; v. 285; p. 209.
Stevenson, Arthur G., Rochester, N. Y. Brush. No. 1,374,330; Apr. 12; v. 285; p. 225.
Stevenson, Charles M., Rockford, Ill., assignor to Iowa Gate Company, Cedar Falls, Iowa. Stall construction. No. 1,373,458; Apr. 5; v. 285; p. 15.
Stevenson, Ralph D., assignor to The Safety Nut & Bolt Company, Cleveland, Ohio. Turnbuckle. No. 1,374,963; Apr. 19; v. 285; p. 409.
Stewart, Charles P., Manila, Philippine Islands. Decorticating-machine. No. 1,374,407; Apr. 12; v. 285; p. 240.
Stewart-Warner Speedometer Corporation. (See Duffy, Thomas L., assignor.)
Stewart-Warner Speedometer Corp. (See Whittington, Frederick G., assignor.)
Stickel, Charles W., Rochester, assignor to Good Luck Tire & Rubber Co., Buffalo, N. Y. Tire-molding apparatus. No. 1,376,123; Apr. 26; v. 285; p. 664.
Stiff, Henry C. (See Brown, W. M., Entwisle, and Stiff.)
Stillwell, Stephen A., Lebanon, Ohio. Advertising novelty. No. 1,374,687; Apr. 12; v. 285; p. 294.
Stines, Fred, Newton, Iowa. Saw-guard. No. 1,374,331; Apr. 12; v. 285; p. 225.
Stirling, Clarence C., Hartford, Conn. Rheostat. No. 1,374,332; Apr. 12; v. 285; p. 225.
Stirton, James W., Detroit, Mich. Gas-engine manifold. No. 1,373,459; Apr. 5; v. 285; p. 15.
Stokes, Henry C., Sumter, S. C. Attachment-lever for brake staves and wheels. No. 1,375,238; Apr. 19; v. 285; p. 463.
Stokes, Henry C., Sumter, S. C. Railway journal-box. No. 1,375,239; Apr. 19; v. 285; p. 463.
Stommel, Hugo, assignor of one-half to H. Raymond, Metuchen, N. J. Pneumatic-tire nipple. No. 1,376,048; Apr. 26; v. 285; p. 649.
Stone, Avon L. (See Stone, John M. and A. L.)
Stone, John M. and A. L., assignors to Gravity Grain Grader Company, Stockton, Calif. Rotary screen. No. 1,373,841; Apr. 5; v. 285; p. 90.
Stoner, Elmer E., Stroudsburg, Pa. Ice-cutting machine. No. 1,374,777; Apr. 12; v. 285; p. 311.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,374,534; Apr. 12; v. 285; p. 265.
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,374,535; Apr. 12; v. 285; p. 265.
Stork, Franklin B., Rockland, Ill. Traction-wheel. No. 1,373,536; Apr. 5; v. 285; p. 31.
Storle, Ole O., Tacoma, Wash. Automatic stop for gramophones. No. 1,375,120; Apr. 19; v. 285; p. 440.
Storle, Ole O., Tacoma, Wash. Automatic stop for sound-reproducing machines. No. 1,375,864; Apr. 26; v. 285; p. 614.
Stotler, Frank W. and R. H. Jamison, Wilkinsburg, Pa. Nursery-nest. No. 1,374,333; Apr. 12; v. 285; p. 225.
Stovall, Columbus D., Lexington, Ky. Alloy. No. 1,375,804; Apr. 26; v. 285; p. 602.
Stowell, Willard. (See Brown, Charles R., assignor.)
Strahn, Frederick, Lawrence, Kans. Car-seal. No. 1,375,025; Apr. 19; v. 285; p. 422.
Straightiff, Alexander. (See Forkner, R. F., and Straightiff.)
Stranders, Julien, Brooklyn, assignor to H. B. Kruger, New York, N. Y. Display-stand. No. 1,375,026; Apr. 19; v. 285; p. 422.
Straub, Joseph, Rossville, Ga. Flower-box. No. 1,375,333; Apr. 19; v. 285; p. 481.
Streeter, Guy J., and W. O. Lillemoen, Monroe, Wash. Automobile-signal. No. 1,374,964; Apr. 19; v. 285; p. 409.
Stretch, William G., Washington, D. C. Robe-clamp. No. 1,376,049; Apr. 26; v. 285; p. 650.
Stretton, Theodore, assignor to Hasiam & Stretton Limited, Cardiff, Wales. Miner's electric safety lamp. No. 1,373,842; Apr. 5; v. 285; p. 90.
Strickland, Royal F., Cleveland, Ohio, assignor to General Electric Company. Mounting for incandescent lamps. No. 1,373,920; Apr. 5; v. 285; p. 105.
Striker, Clarence C. (See Striker, Robert C. and C. C.)
Striker, Robert C. and C. C., New York, N. Y. Clothes-hanger. No. 1,373,460; Apr. 5; v. 285; p. 15.
Stringfellow, Bruce W., Culpeper, Va. Aquatic vehicle. No. 1,373,681; Apr. 5; v. 285; p. 58.
Strobino, Gaston, Paterson, N. J. Phonograph-reproducer. No. 1,374,479; Apr. 12; v. 285; p. 254.
Stromberg, Fritz O., Los Angeles, Calif. Poultry-run. No. 1,374,120; Apr. 5; v. 285; p. 144.
Strome, Orrin R., Pleasant Dale, Saskatchewan, Canada. Clutch and change-speed mechanism. No. 1,374,039; Apr. 5; v. 285; p. 128.
Stromwall, Oscar A., Foreston, Minn. Combination milking stool and pail-holder. No. 1,376,050; Apr. 26; v. 285; p. 650.
Strong, Ernest G., and E. C. Rohn, assignors to The Timken Roller Bearing Company, Canton, Ohio. Machine for closing cages of roller-bearings. No. 1,375,334; Apr. 19; v. 285; p. 481.
Stuart, John L., Oakland, assignor to Stuart Machine Co., San Francisco, Calif. Die for setting gromets and eyelets. No. 1,373,461; Apr. 5; v. 285; p. 16.
Stuart, John L., Oakland, assignor to Stuart Machine Co., San Francisco, Calif. Gromet making and setting machine. No. 1,373,462; Apr. 5; v. 285; p. 16.
Stuart Machine Co. (See Stuart, John L., assignor.)
Studebaker, Walter M., and H. J. Epple, Erie, Pa. Separator for storage batteries. No. 1,375,740; Apr. 26; v. 285; p. 590.
Studholme, Joseph H. (See Carlstrom, Knut S., assignor.)
Stuebling, William, Jr., Cincinnati, Ohio. Platform. No. 1,374,613; Apr. 12; v. 285; p. 280.
Stultz, George H., Winterset, Iowa. Breeding-crate. No. 1,373,921; Apr. 5; v. 285; p. 106.
Sturgeon, Thomas R., New York, N. Y. Speed-change device. No. 1,374,614; Apr. 12; v. 285; p. 280.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Condensing apparatus. No. 1,373,463; Apr. 5; v. 285; p. 16.
Sulak, Anton G., Seattle, Wash. Toothbrush receptacle and holder. No. 1,375,865; Apr. 26; v. 285; p. 614.
Sullivan, Dennis L., Streator, Ill. Chain. No. 1,376,299; Apr. 26; v. 285; p. 698.
Sullivan, Frank, Cusick, Wash. Irrigation-regulator. No. 1,375,240; Apr. 19; v. 285; p. 463.
Sullivan Machinery Company. (See Oliphant, John, assignor.)
Sullivan, Maurice P., Torrington, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Spark-plug. No. 1,373,682; Apr. 5; v. 285; p. 58.
Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Stencil-sheet and making it. No. 1,375,866; Apr. 26; v. 285; p. 614.
Sumbling, William H., Toronto, Ontario, Canada. Mounting means for grinding-wheels. No. 1,374,334; Apr. 12; v. 285; p. 225.
Summers, Frank E., Memphis, Mo. Transmitter. No. 1,374,688; Apr. 12; v. 285; p. 295.
Sundberg, Carl H., Chicago, Ill. Vegetable-masher. No. 1,373,843; Apr. 5; v. 285; p. 90.
Sundermann, George H., Jr., New York, N. Y. Mop-head. No. 1,376,175; Apr. 26; v. 285; p. 673.
Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Apparatus for drying metal strips. No. 1,374,335; Apr. 12; v. 285; p. 226.
Sundh Engineering and Machine Company. (See Sundh, August, assignor.)
Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus particularly intended for naval guns. No. 1,375,264; Apr. 19; v. 285; p. 467.
Superheater Company, The. (See True, Charles H., assignor.)
Superior Rubber Company. (See Porzel, Joseph, assignor.)
Superior Tool Company, The. (See Williams, Harry W., assignor.)
Surbaugh, John S., Vincennes, Ind. Handle and blade connection. No. 1,374,336; Apr. 12; v. 285; p. 226.
Surico, Carmine. (See Cardone, P., Fumagalli, and Surico.)

Sutton, Henry M., W. L. Steele, and E. G. Steele, Dallas, Tex. Process of and apparatus for progressive electrostatic separation of comminuted material. No. 1,375,741; Apr. 26; v. 285; p. 591.
Svebilius, Henry M., Evanston, Ill. Plier-type wrench. No. 1,373,683; Apr. 5; v. 285; p. 59.
Swan, John H., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Combination all-ways impact and time fuse. No. 1,374,121; Apr. 5; v. 285; p. 144.
Swan, Lawrence L., East Liverpool, Ohio. Door-fastener. No. 1,376,233; Apr. 26; v. 285; p. 684.
Swaney, Jess, Seattle, Wash. Ship-raising apparatus. No. 1,373,574; Apr. 5; v. 285; p. 38.
Swanson, Swan F., Pueblo, Colo. Steam-boiler. No. 1,375,616; Apr. 19; v. 285; p. 534.
Swanwick, George, *et al.* (See Park, George I., assignor.)
Swartz, Fred M., Providence, R. I. Clasp. No. 1,374,337; Apr. 12; v. 285; p. 226.
Swartzbaugh, Charles E., Toledo, Ohio. Food-conveyer. No. 1,375,121; Apr. 19; v. 285; p. 440.
Sweet, Howard M., Detroit, Mich. Plow. No. 1,373,537; Apr. 5; v. 285; p. 31.
Swint, Wendell R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. High explosive and making same. No. 1,373,844; Apr. 5; v. 285; p. 90.
Sydeman, Abraham. (See Kane, Thomas E., assignor.)
Syverson, Lena J., Ironton, Minn. Laundry-strainer. No. 1,374,338; Apr. 12; v. 285; p. 226.
Taber, Rock G., Dallas, Tex. Pipe-coating machine. No. 1,375,979; Apr. 26; v. 285; p. 636.
Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
Taft, Walter, Wilmington, N. C. Helicopter. No. 1,373,775; Apr. 5; v. 285; p. 76.
Tag Sewing Machine Company, The. (See Rosenthal, Arthur and M. G., assignors.)
Talty, James J., Harriman, Pa. Bolt. No. 1,374,615; Apr. 12; v. 285; p. 281.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Potential-regulating system. No. 1,374,165; Apr. 5; v. 285; p. 152.
Tanski, Stanly, East Vandergrift, Pa. Mousetrap. No. 1,375,980; Apr. 26; v. 285; p. 636.
Tarjan, Andor, Vienna, Austria. Lock. No. 1,374,616; Apr. 12; v. 285; p. 281.
Tate, Alfred O., New York, N. Y. Dyeing and waterproofing. No. 1,374,122; Apr. 5; v. 285; p. 144.
Tate, Alfred O., New York, N. Y. Apparatus for treating light and similar rays. No. 1,374,965; Apr. 19; v. 285; p. 410.
Tatum, John J., Baltimore, Md. Safety-hanger for brake rods. No. 1,373,575; Apr. 5; v. 285; p. 38.
Taylor, Albert H., Grand Forks, N. D. Simultaneous transmission or reception of speech and signals. No. 1,376,051; Apr. 26; v. 285; p. 650.
Taylor, Floyd T., and W. F. Hall, assignors to Munning-Loeb Company, Matawan, N. J. Cylinder for electroplating apparatus and the like. No. 1,376,052; Apr. 26; v. 285; p. 650.
Taylor, Hugh S. (See Rideal, E. K., and Taylor.)
Taylor, James A., Waco, Ky. Eyeglass-holder. No. 1,376,234; Apr. 26; v. 285; p. 685.
Taylor, John, Brooklyn, N. Y. Bolt and its installation. No. 1,373,640; Apr. 5; v. 285; p. 50.
Taylor, John, Salt Lake City, Utah. Coal-dust furnace. No. 1,373,776; Apr. 5; v. 285; p. 76.
Teall, Russell F., Toledo, Ohio, assignor to C. J. Willis, Ann Arbor, Mich. Toaster. No. 1,375,122; Apr. 19; v. 285; p. 440.
Tentobed Company. (See Purcell, Isaac S., assignor.)
Terry, James A., Pocahontas, Iowa. Portable cabinet-lavatory. No. 1,374,778; Apr. 12; v. 285; p. 311.
Tetrault, Eusebe. (See Payette, A. E., and Tetrault.)
Texas Concrete Construction Company. (See Moore, Stuart B., assignor.)
Texas Gulf Sulphur Company. (See Bacon, R. F., and Davis, assignors.)
Texas Gulf Sulphur Company. (See Bragg, Gilbert A., assignor.)
Thackston, Ralph F., Anderson, S. C. Rocker-shaft bearing. No. 1,374,779; Apr. 12; v. 285; p. 312.
Thall, Edvig. (See Carlsson, O., and Thall.)
Tharalson, Taly C., Jamestown, N. D. Trace-carrier. No. 1,375,068; Apr. 19; v. 285; p. 430.
Thomas & Buckley Hoisting Co. (See Vittorio, Luxa C., assignor.)
Thomas, Edgar, Jarrow-on-Tyne, England. Billet-manipulator for rolling-mills. No. 1,376,300; Apr. 26; v. 285; p. 698.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Panel-board fitting. No. 1,374,123; Apr. 5; v. 285; p. 144.
Thomas, Horace T., Lansing, Mich. Window for automobiles. No. 1,374,249; Apr. 12; v. 285; p. 209.
Thomas, Percy H., Upper Montclair, N. J. Electric insulator. No. 1,373,576; Apr. 5; v. 285; p. 38.
Thompson, Benjamin H., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,375,981; Apr. 26; v. 285; p. 636.
Thompson, Earl, New York, N. Y. Desk-chair. No. 1,375,867; Apr. 26; v. 285; p. 614.
Thompson, Earl, New York, N. Y. Chair. No. 1,375,868; Apr. 26; v. 285; p. 614.
Thompson, Ernest S., Detroit, Mich. Disk-record-replaying device. No. 1,376,177; Apr. 26; v. 285; p. 673.
Thompson, Frank H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-pulling machine. No. 1,374,250; Apr. 12; v. 285; p. 209.
Thompson, Garold J., Clarksburg, W. Va., assignor to Glamar Machine Company. Machine for making spherical articles. No. 1,374,966; Apr. 19; v. 285; p. 410.
Thompson, George, Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Distributing-switch. No. 1,375,762; Apr. 26; v. 285; p. 594.
Thompson, Harry G., Cleveland, Ohio. Handle. No. 1,374,251; Apr. 12; v. 285; p. 209.
Thompson, Herbert S., Peekskill, N. Y., assignor to The Standard Textile Products Company, Youngstown, Ohio. Convertible and portable top. No. 1,375,027; Apr. 19; v. 285; p. 422.
Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,373,538; Apr. 5; v. 285; p. 31.
Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,373,539; Apr. 5; v. 285; p. 31.
Thompson, Lewis I., Portland, Oreg. Vehicle-spring. No. 1,374,780; Apr. 12; v. 285; p. 312.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Means for preventing voltage fluctuations in distributing-circuits. No. 1,373,922; Apr. 5; v. 285; p. 106.
Thompson, Ross E., Deming, N. Mex. Condenser. No. 1,374,781; Apr. 12; v. 285; p. 312.
Thompson, Thomas. (See James, Thomas J., assignor.)
Thomson, Charles C. (See Craig, J., and Thomson.)
Thomson Electric Welding Company. (See Woofter, Herbert A., assignor.)
Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Condenser. No. 1,375,982; Apr. 26; v. 285; p. 636.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric switching device. No. 1,375,983; Apr. 26; v. 285; p. 636.
Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Construction for rail-joints. No. 1,374,782; Apr. 12; v. 285; p. 312.
Thorne, Harold, New York, and N. D. Manoilovich, Astoria, N. Y.; said Manoilovich assignor to said Thorne. Anti-skid device for automobiles, &c. No. 1,374,252; Apr. 12; v. 285; p. 210.
Thornton, Edgar R. (See Clouser, H. E., and Thornton.)
Thurston-Bernay Co., The. (See Bernay, Henri, assignor.)
Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Door-interlock. No. 1,374,339; Apr. 12; v. 285; p. 226.
Thurston, Fred W. (See Bernay, Henri, assignor.)
Tiencken, John H., Charleston, S. C. Sash-lock. No. 1,374,783; Apr. 12; v. 285; p. 312.
Tillson, Edwin D., Evanston, Ill. Lighting device. No. 1,373,845; Apr. 5; v. 285; p. 90.
Timberlake, Daniel T., assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo. Motor-truck steering-gear. No. 1,373,777; Apr. 5; v. 285; p. 77.
Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Timken Roller Bearing Company, The. (See Drowns, Irvin, assignor.)
Timken Roller Bearing Company, The. (See Strong, E. G., and Rohn, assignors.)
Tinius Olsen Testing Machine Company. (See Olsen, Tinius, assignor.)
Titcomb, George E., Brooklyn, N. Y. Apparatus for freight transference. No. 1,373,464; Apr. 5; v. 285; p. 17.
Tjæransen, Nils J., Christiansund, Norway. Combined skirt and sporting-trousers. No. 1,374,040; Apr. 5; v. 285; p. 128.
Tobin, Harry D., Empire, Mich. Removable horseshoe. No. 1,375,428; Apr. 19; v. 285; p. 499.
Tobin, James H., Erie, Pa. Automobile-bumper. No. 1,376,301; Apr. 26; v. 285; p. 698.
Tobin, Kenneth J., Chicago, Ill. Sliding-door hanger. No. 1,373,684; Apr. 5; v. 285; p. 59.
Todt, Frederick G., Philadelphia, Pa. Sand-discharging device. No. 1,375,541; Apr. 19; v. 285; p. 520.
Toepfer, Fred, Victoria, Kans. Unloading device for header-boxes. No. 1,373,987; Apr. 5; v. 285; p. 119.
Toledo Machine & Tool Company, The. (See Byerlein, Arthur A., assignor.)
Tollagsen, Olaf, St. Louis, Mo. Steam-cooking device. No. 1,375,028; Apr. 19; v. 285; p. 422.
Tompkins, Ernest E., Philadelphia, Pa. Bushing. No. 1,373,778; Apr. 5; v. 285; p. 77.
Tonguett, Howard A., assignor of one-half to J. H. Uncapher, Marion, Ohio. Curtain-pole bracket. No. 1,375,617; Apr. 19; v. 285; p. 535.
Tooker, Charles O., assignor of one-half to R. C. Fry, Richmond, Ind. Ratchet socket-wrench. No. 1,373,779; Apr. 5; v. 285; p. 77.
Tooker, Harry B. (See Barnard, A. C., and Banks, assignors.)

Tornberg, Isidor, assignor to R. Hoe and Co., New York, N. Y. Offset-preventing mechanism for printing-machines. No. 1,374,253; Apr. 12; v. 285; p. 210.
Tornberg, Isidor. (See Getches, R. M., and Tornberg.)
Torrence, Charles A., Winnipeg, Manitoba, Canada. Grain-cleaner. No. 1,373,685; Apr. 5; v. 285; p. 59.
Torrey, Anthony P., North Glenside, Pa. Air-conditioning process and apparatus. No. 1,374,689; Apr. 12; v. 285; p. 295.
Torricellas, Guy, San Diego, Calif. Vehicle direction-indicator. No. 1,376,176; Apr. 26; v. 285; p. 673.
Towe, Edward, assignor to F. J. Weider, Rochester, N. Y. Percolator. No. 1,374,166; Apr. 5; v. 285; p. 152.
Towers, Augustus R., Richmond, Va. Book-filler. No. 1,375,742; Apr. 26; v. 285; p. 591.
Townsend, W. H. (See Mosher, J. A., and Townsend.)
Townsend, William S., Washington, D. C. Dispensing-tank. No. 1,373,686; Apr. 5; v. 285; p. 59.
Traphagen, Harry R. (See Waterman, L. E., Traphagen, and Waterman.)
Traphagen, Maxwell E., Brooklyn, N. Y. Shoe-lace. No. 1,373,687; Apr. 5; v. 285; p. 59.
Traum, John, Coshocton, Ohio. Vulcanizing equipment for vulcanizing casings for pneumatic-tire tubes. No. 1,375,542; Apr. 19; v. 285; p. 521.
Traver, Henry C. (See Gosney, Robert E., assignor.)
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Battery-charging system. No. 1,374,690; Apr. 12; v. 285; p. 295.
Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. System for the control of dirigible devices from a distance. No. 1,374,124; Apr. 5; v. 285; p. 144.
Trew, Arthur S., Portland, Oreg. Card-distributing machine. No. 1,375,241; Apr. 19; v. 285; p. 463.
Trimmer, Jesse, Traverse City, Mich. Tractor. No. 1,374,784; Apr. 12; v. 285; p. 313.
Trogner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Building tires. No. 1,374,408; Apr. 12; v. 285; p. 240.
Troop, George W., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,374,691; Apr. 12; v. 285; p. 295.
Troph, Emil, Madrid, Nebr. Window-screen fastener. No. 1,376,235; Apr. 26; v. 285; p. 685.
Trout, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Band-mill. No. 1,374,967; Apr. 19; v. 285; p. 410.
Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Draft-arm. No. 1,373,780; Apr. 5; v. 285; p. 77.
Truc, Charles H., Hammond, Ind., assignor to The Superheater Company, New York, N. Y. Double-tube return-bend. No. 1,373,465; Apr. 5; v. 285; p. 17.
Trueman, Walter B., Mattoon, Ill. Gate. No. 1,374,785; Apr. 12; v. 285; p. 313.
Trull, Lyman A., Williamsport, Pa., assignor to Lycoming Rubber Company. Vulcanized boot and shoe. No. 1,374,480; Apr. 12; v. 285; p. 254.
Trullench, Antonio N., Lucena, Philippine Islands. Tool. No. 1,375,984; Apr. 26; v. 285; p. 635.
Trump, Elno H., Barberton, Ohio. Tire-mold. No. 1,375,548; Apr. 19; v. 285; p. 521.
Tucker, Joseph T., Match, Tenn. Safety stock device. No. 1,375,189; Apr. 19; v. 285; p. 454.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,374,041; Apr. 5; v. 285; p. 128.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,374,042; Apr. 5; v. 285; p. 128.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,374,043; Apr. 5; v. 285; p. 129.
Turbine Auto Washer Company. (See Masser, Jesse R., assignor.)
Turgeon, Joseph A., Providence, R. I. Tool-handle. No. 1,375,069; Apr. 19; v. 285; p. 431.
Turner, Alonzo O., *et al.* (See Cook, George R., assignor.)
Turner, Ernest, Urmston, near Manchester, England. Automatic gas and like regulator. No. 1,375,265; Apr. 19; v. 285; p. 468.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,375,743; Apr. 26; v. 285; p. 591.
Turton, Alfred, Brooklyn, N. Y. Reinforced sheathing. No. 1,374,254; Apr. 12; v. 285; p. 210.
Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Beam construction. No. 1,375,644; Apr. 19; v. 285; p. 540.
Twelt, John A., Appleton, Minn. Spark-arrester. No. 1,373,466; Apr. 5; v. 285; p. 17.
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
U. S. Light & Heat Corporation. (See Engel, Frank, assignor.)
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
Ulfers, Ira, Freeport, Ill. Antiskidding device for tires. No. 1,374,692; Apr. 12; v. 285; p. 295.
Ulfers Manufacturing Company. (See Keith, Herbert J., assignor.)
Ullrich, Irving T., Wolcott, N. Y. Agricultural implement. No. 1,376,236; Apr. 26; v. 285; p. 685.
Umeda, Torakichi, Tennoji-Mura, Japan. Envelop-machine. No. 1,375,618; Apr. 19; v. 285; p. 535.
Umphrey, Harry D., *et al.* (See Umphrey, Henry, assignor.)
Umphrey, Henry, assignor of one-third to E. D. B. Robertson and one-third to H. D. Umphrey, Carleton Place, Ontario, Canada. Shade and curtain holder. No. 1,375,805; Apr. 26; v. 285; p. 602.
Uncapher, Justice H. (See Tonguett, Howard A., assignor.)
Unckrich, Clarence F., Galion, Ohio. Door-lock for open-end vaults. No. 1,375,645; Apr. 19; v. 285; p. 540.
Underwood Computing Machine Company. (See Waldheim, John, assignor.)
Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Electrical system of power transmission. No. 1,373,923; Apr. 5; v. 285; p. 106.
Union Metals Products Company. (See Mayhew, E. A., assignor.)
Union Special Machine Company. (See McNeil, Chester, assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.) (Reissue.)
United Alfalfa Company. (See Shamblen, Lester B., assignor.)
United Banking & Savings Company, trustee, The. (See Wight, James M., assignor.)
United Shoe Machinery Corporation. (See Brock, Matthias.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Davey, John F., assignor.)
United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Hamilton, Harry D., assignor.)
United Shoe Machinery Corporation. (See Hudson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Mackenzie, F. L., and Goddu, assignor.)
United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United Shoe Machinery Corporation. (See Thompson, Frank H., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Automotive Corporation. (See De Martin, C. L., Matteoli, and Arbuckle, assignors.)
United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)
United States Ordnance Company. (See Asbury, Dorsey F., assignor.)
United States Ordnance Company. (See Sheppard, Creedy C., assignor.)
United States Malleable Iron Co., The. (See Luschen, Henry J., assignor.)
Unity Tire & Mfg. Co. (See Davis, De Leon, assignor.)
Universal Mercerizing & Dyeing Co. (See Spitzer, Jacob, assignor.)
Universal Motor Truck and Traction Engine Company. (See Timberlake, Daniel T., assignor.)
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Airship. No. 1,375,242; Apr. 19; v. 285; p. 463.
Usher, William. (See Lawrence, George, assignor.)
Vail, Robert W., New York, N. Y. Burglar-alarm system. No. 1,374,255; Apr. 12; v. 285; p. 210.
Valeggia, Andrew, London, England. Pencil-holder. No. 1,375,029; Apr. 19; v. 285; p. 423.
Valentine, Rollo H., assignor of one-half to R. I. Hall, Clinton, Ill. Tufting device. No. 1,374,409; Apr. 12; v. 285; p. 240.
Valeur, Einar J., New York, N. Y. Steering mechanism for vehicles. No. 1,374,044; Apr. 5; v. 285; p. 129.
Vallens, Eugene, New York, N. Y. Cigar-package. No. 1,373,577; Apr. 5; v. 285; p. 39.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,475; Apr. 19; v. 285; p. 508.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,476; Apr. 19; v. 285; p. 508.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,477; Apr. 19; v. 285; p. 508.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,478; Apr. 19; v. 285; p. 508.
Van Allen, George L., Prince Bay, New York, assignor to Baker & Company, Inc. Package for dental solder and the like. No. 1,375,479; Apr. 19; v. 285; p. 509.

Van Asperen, Cornelis H., Toronto, Ontario, Canada. Aerial lifting device. No. 1,374,256; Apr. 12; v. 285; p. 210.

Van Brunt, Cyrus W., and L. Edwards, Durand, Wis. Extension-perch for springs. No. 1,374,617; Apr. 12; v. 285; p. 281.

Van Camp, Gordon, Drayton, N. D. Tire-valve device. No. 1,375,429; Apr. 19; v. 285; p. 499.

Van Ness, Henry E., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,375,870; Apr. 26; v. 285; p. 615.

Van Patten, Louis C., and J. B. Wolfe, assignors to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,375,871; Apr. 26; v. 285; p. 615.

Van Raalte, Arthur, assignor to Van Raalte Company, Inc., New York, N. Y. Glove. No. 1,374,257; Apr. 12; v. 285; p. 211.

Van Raalte Company. (See Van Raalte, Arthur, assignor.)

Van Poelvoorde, Pieter J., Weltevreden, Batavia, Dutch East Indies. Hydraulic ship's armor. No. 1,375,335; Apr. 19; v. 285; p. 481.

Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Controller for electric motors. No. 1,373,846; Apr. 5; v. 285; p. 99.

Van Vleck, Peirce, and H. Cooper, assignors to W. H. Peirce, Baltimore, Md. Compressor. No. 1,373,924; Apr. 5; v. 285; p. 106.

Van Wye, Garry P., New York, N. Y. Oil-stove. No. 1,373,540; Apr. 5; v. 285; p. 31.

Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Metal shelving. No. 1,375,869; Apr. 26; v. 285; p. 615.

Vardell, Arthur A., deceased, Dallas, Tex.; H. G. Vardell, executrix. Mechanism for removing useful fiber from seeds. No. 1,375,985; Apr. 26; v. 285; p. 637.

Vardell, Arthur A., deceased, H. G. Vardell, executrix, Dallas, Tex. Mechanism for removing useful fiber from seeds. No. 1,375,986; Apr. 26; v. 285; p. 637.

Vardell, Highland G., executrix. (See Vardell, Arthur A.)

Varian, Howard M., Detroit, Mich. Boiler-tube cleaner. No. 1,375,123; Apr. 19; v. 285; p. 441.

Variety Manufacturing Company. (See Buell, Charles H., assignor.)

Varley, Thomas W., New York, N. Y. Electric pyrometer. No. 1,375,872; Apr. 26; v. 285; p. 615.

Vasselon, Marius, St. Etienne, France. Gas-radiator. No. 1,375,987; Apr. 26; v. 285; p. 637.

Vaudreuil, Edward J., Eau Claire, Wis. Apparatus for blanching or cooking vegetables. No. 1,374,340; Apr. 12; v. 285; p. 226.

Vaudreuil, Edward J., Eau Claire, Wis. Blanching or cooking vegetables. No. 1,374,341; Apr. 12; v. 285; p. 227.

Vaughn, Samuel C., Charlotte, N. C. Exhibiting device. No. 1,375,619; Apr. 19; v. 285; p. 535.

Veazey, William R. (See Smith, A. W., and Veazey.)

Veazey, William R., Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Treating light-metal alloys. No. 1,374,968; Apr. 19; v. 285; p. 410.

Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Cableway-carriage mechanism. No. 1,373,541; Apr. 5; v. 285; p. 32.

Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating mechanism. No. 1,376,053; Apr. 26; v. 285; p. 650.

Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Hoisting-derrick. No. 1,376,054; Apr. 26; v. 285; p. 651.

Vergniaud, Louis, Paris, France, assignor to Corporation said: Etablissements Jacob Holtzer. Process and apparatus for drying crucibles. No. 1,373,688; Apr. 5; v. 285; p. 60.

Vernet, François E. B., assignor to Compagnie Generale de Travaux d'Eclairage et de Force (Anciens Etablissements Clémançon,) Paris, France. Electric heater having heating fabrics. No. 1,374,693; Apr. 12; v. 285; p. 296.

Vezie, Melbourne E., Cement, Okla. Burner. No. 1,374,045; Apr. 5; v. 285; p. 129.

Viar, Raymond P., assignor of one-half to Charles W. McWane, Lynchburg, Va. Core-forming device. No. 1,373,578; Apr. 5; v. 285; p. 39.

Victor Equipment Co. (See Gallagher, John P., assignor.)

Viking Corporation, The. (See Liljegren, Gunnar, assignor.)

Vilm, Henry, *et al.* (See Miller, William G., assignor.)

Vitrac, Maurice, Paris, France. Mark-buoy for seaways. No. 1,376,055; Apr. 26; v. 285; p. 651.

Vittorio, Luxa C., Emerson, N. J., assignor to Thomas & Buckley Hoisting Co., New York, N. Y. Brake for electric-motor-operated hoists. No. 1,374,258; Apr. 12; v. 285; p. 211.

Vittorio, Luxa C., Emerson, N. J., assignor to Thomas & Buckley Hoisting Co., New York, N. Y. Brake for electric-motor-operated hoists. No. 1,374,259; Apr. 12; v. 285; p. 211.

Vivian, Godfrey T. (See Conder, C. M., and Vivian.)

Viviano, Philip, St. Louis, Mo. Carbureter. No. 1,373,542; Apr. 5; v. 285; p. 32.

Vogel-Jørgensen, Mikael, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Ball-mill for crushing ores. No. 1,374,410; Apr. 12; v. 285; p. 240.

Von Kersburg, Harry E., assignor to R. H. Macy & Co., Inc., New York, N. Y. Safety attachment for stop-watches. No. 1,373,467; Apr. 5; v. 285; p. 17.

Von Post, Thom M. U., Stäket, Sweden. Furnace system for dry distillation. No. 1,375,948; Apr. 26; v. 285; p. 620.

Von Post, Thom M. U., Stäket, Sweden. Carbonising-furnace. No. 1,375,944; Apr. 26; v. 285; p. 630.

Voss, Charles H., Hypoluxle, Fla. Lighting system for motor-vehicles. No. 1,376,237; Apr. 26; v. 285; p. 685.

Vrbic, Theodore, Chicago, Ill. Combination clothes hanger and stretcher. No. 1,374,260; Apr. 12; v. 285; p. 211.

Vreeland, George V. C., East Orange, N. J., assignor to National Carbon Company, Inc. Flashlight. No. 1,374,411; Apr. 12; v. 285; p. 241.

Vulcan Motor Devices Company. (See Beemer, Frank, assignor.)

W. & T. Avery Limited. (See Barraclough, Arthur, assignor.)

Wade, Stanley M., Oakland, Calif. Grouser. No. 1,374,481; Apr. 12; v. 285; p. 254.

Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary boring-drill. No. 1,374,867; Apr. 12; v. 285; p. 320.

Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,375,336; Apr. 19; v. 285; p. 481.

Wagensell, Ludwig, Aachen, Germany, assignor to H. Junkers, Aachen, Germany. Radiator. No. 1,376,178; Apr. 26; v. 285; p. 674.

Wagner, Charles, Minneapolis, Minn. Display-rack. No. 1,373,781; Apr. 5; v. 285; p. 77.

Wagner, Rudolph, Jersey City, N. J. Chair. No. 1,375,337; Apr. 19; v. 285; p. 482.

Wagoner, Judson E., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker-furnace. No. 1,374,125; Apr. 5; v. 285; p. 144.

Wahl, Manfred, Philadelphia, Pa. Cooling apparatus. No. 1,373,468; Apr. 5; v. 285; p. 17.

Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Structure for trolley-wire fittings. No. 1,374,537; Apr. 12; v. 285; p. 265.

Wait, Harry R., Buffalo, N. Y. Device for removing the closure-boards of grain-car doors. No. 1,376,124; Apr. 26; v. 285; p. 664.

Waite, George, Bexhill-on-Sea, England. Gas cooking-stove and like heater. No. 1,374,046; Apr. 5; v. 285; p. 129.

Waite, Harry F., New York, N. Y. Stereoscope for X-ray plates. No. 1,373,847; Apr. 5; v. 285; p. 91.

Waite, Harry F., New York, N. Y. Device for keeping cooling-water at desirable temperatures. No. 1,373,848; Apr. 5; v. 285; p. 91.

Waldes, Jindřich, Prague, Bohemia. Button. No. 1,375,873; Apr. 26; v. 285; p. 616.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,374,969; Apr. 19; v. 285; p. 410.

Waldron, James M. (See Peddle, C. R., and Waldron.)

Walker, Alfred J. N., Liverpool, England. Manufacture of printing-plates or surfaces for printing from. No. 1,375,874; Apr. 26; v. 285; p. 616.

Walker, Charles B., Moseley, England. Screw-propeller. No. 1,374,786; Apr. 12; v. 285; p. 313.

Walker, Charles B., Moseley, England. Screw-propeller. No. 1,374,787; Apr. 12; v. 285; p. 313.

Walker, Clarence G., Bramwell, W. Va. Attachment for coal-conveyers. No. 1,375,988; Apr. 26; v. 285; p. 637.

Walker, Clarence H., Larchmont, N. Y. Commutator. No. 1,375,945; Apr. 26; v. 285; p. 630.

Walker, Clarence J., Conneaut Lake, Pa. Medicine-measuring device. No. 1,375,430; Apr. 19; v. 285; p. 499.

Walker, Edward E., *et al.* (See Cox, John W., assignor.)

Walker, Ira B., Etna Mills, Calif. Signaling device. No. 1,375,806; Apr. 26; v. 285; p. 602.

Walker, Stanley, Kings Lynn, England. Indicating apparatus. No. 1,374,788; Apr. 12; v. 285; p. 313.

Walker Wells Company. (See Wells, George W., assignor.)

Wall, John H., Bristol, R. I. Loading device for shoe-dipping machines. No. 1,376,363; Apr. 26; v. 285; p. 710.

Wallace, Charles R., Baltimore, Md. License-tag holder. No. 1,375,875; Apr. 26; v. 285; p. 616.

Wallace, David P. (See Jones, S. P., and Wallace.)

Waller, Alfred E., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company. Resistance device. No. 1,373,689; Apr. 5; v. 285; p. 60.

Waller, Charles W., Chicago, Ill. Necktie. No. 1,375,190; Apr. 19; v. 285; p. 454.

Wallick, John S., Lancaster, Pa. Newspaper-holder. No. 1,373,988; Apr. 5; v. 285; p. 119.

Walsh, Timothy, Philadelphia, Pa. Clutch. No. 1,375,191; Apr. 19; v. 285; p. 454.

Walter, Horace E., Richmond, Va. Handbag-handle. No. 1,374,126; Apr. 5; v. 285; p. 145.

Walton, Frank A., Portland, Oreg., assignor of one-half to F. W. Steiner, Sparks, Nev. Automatic train-stop. No. 1,374,342; Apr. 12; v. 285; p. 227.

Walton, Leonard A. (See Langmaid, S. P., and Walton.)

Waltrowicz, Johann E., Gerang, Victoria, Australia. Windmill-control mechanism for tank-supply. No. 1,373,543; Apr. 5; v. 285; p. 32.

Wanders, Hans H., Brookline, Mass. Metal-working machine. No. 1,373,690; Apr. 5; v. 285; p. 60.

Wandersee, John F. (See Albrecht, T., Peretto, and Wandersee.)

Wandersee, John F., Highland Park, R. Peretto, Detroit, and T. A. L. Albrecht, Royal Oak, assignors to Ford Motor Company, Detroit, Mich. Metal alloy. No. 1,376,058; Apr. 26; v. 285; p. 651.

Wann, John T., Berkeley, assignor, by mesne assignments, to R. C. Newell and W. C. Murdoch, Jr., San Francisco, Calif. Evaporator. No. 1,375,431; Apr. 19; v. 285; p. 500.

Ward, Chester K. (See Bridges, E. F., and Ward.)

Ward Leonard Electric Company. (See Schwagermann, William, assignor.)

Ward Leonard Electric Company. (See Waller, Alfred E., assignor.)

Warder, Walter J., Jr., Chicago, Ill. Brush-holder. No. 1,375,124; Apr. 19; v. 285; p. 441.

Ware, Joseph L., Minneapolis, Minn. Vise. No. 1,375,876; Apr. 26; v. 285; p. 616.

Waream, C. E., and G. N. Link, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Pressing-machine. No. 1,374,261; Apr. 12; v. 285; p. 211.

Warner, Edgar T., St. Michaels, Md. Ignition. No. 1,376,057; Apr. 26; v. 285; p. 651.

Warner, John C. (See Smith, B. H., and Warner.)

Warner, William D., Columbus, Ohio. Carbureter control. No. 1,373,469; Apr. 5; v. 285; p. 17.

Warren, Frank D., assignor to The Domestic Utility Corporation, Colorado Springs, Colo. Paring-knife. No. 1,374,167; Apr. 5; v. 285; p. 152.

Warwick, Rogers M., assignor to General Wire Tie Co., Chicago, Ill. Bag-tying machine. No. 1,373,470; Apr. 5; v. 285; p. 18.

Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Sintering phosphatic materials. No. 1,373,471; Apr. 5; v. 285; p. 18.

Wasserlein, Froes Company. (See Wasserlein, Victor E., assignor.)

Wasserlein, Victor E., New York, N. Y., assignor to Wasserlein, Froes Company, Inc. Fuel-control valve for carbureters. No. 1,374,262; Apr. 12; v. 285; p. 212.

Wasson, Frank A. (See Pfeiffer, C., and Wasson.)

Wastun, Cornelius O., *et al.* (See Corbett, George W., assignor.)

Watchorn, Harry L. J., G. H. Roberts, and M. Raker, Coutts, Alberta, Canada. Safety attachment to tractors. No. 1,373,691; Apr. 5; v. 285; p. 60.

Waterbury Brass Goods Corporation, The. (See Williams, Arthur L., assignor.)

Waterman, Howard L. (See Waterman, L. E., Traphagen, and Waterman.)

Waterman, L. E., H. R. Traphagen, and H. L. Waterman, assignors to Emerson-Brantingham Company, Rockford, Ill. Running-gear for motor-vehicles. No. 1,374,412; Apr. 12; v. 285; p. 412.

Watkins, Laurence F., and G. W. Wilton, Wellington, New Zealand. Bottle-stopper. No. 1,375,030; Apr. 19; v. 285; p. 423.

Watrous, Martin D., Ansonia, Conn. Trolley-pole. No. 1,374,047; Apr. 5; v. 285; p. 130.

Watson, Charles R., deceased, New York, N. Y. S. A. Watson, executrix. Undergarment. No. 1,376,381; Apr. 26; v. 285; p. 712.

Watson, Ernest A., Coventry, assignor to The C. L. I. Manufacturing Company, Limited, Birmingham, England. Dynamo. No. 1,375,192; Apr. 19; v. 285; p. 454.

Watson, James, Marinette, Wis. Stovepipe-joint. No. 1,376,364; Apr. 26; v. 285; p. 710.

Watson, Oliver E., Dayton, Ohio. Reinforcing means for automobile radius-rods. No. 1,376,058; Apr. 26; v. 285; p. 651.

Watson, Robert. (See Nelson, J., and Watson.)

Watson, Sallie A., executrix. (See Watson, Charles R.)

Watson, William U., Chicago, Ill. Grease-gun. No. 1,374,263; Apr. 12; v. 285; p. 212.

Watt, James A. (See Youngren, O. A., and Watt.)

Watts, Albert E., Montreal, Quebec, Canada. Piston-inserting device. No. 1,375,744; Apr. 26; v. 285; p. 591.

Watts, Albert E., Dorval, Quebec, Canada. Spark-plug. No. 1,375,807; Apr. 26; v. 285; p. 602.

Wayne Tool Manufacturing Company. (See Bellringer, Sidney M., assignor.)

Wayne Tool Manufacturing Company. (See Logan, Marcellus J., assignor.)

Weatherly, Sidney M., and H. J. Stach, Hartford; said Stach assignor of his right to National Machine Company, Hartford, Conn. Electric embossing-plate heater. No. 1,375,544; Apr. 19; v. 285; p. 521.

Webb, William H., Randalstown, Ireland. Controlling device for power-transmission clutches. No. 1,374,413; Apr. 12; v. 285; p. 241.

Webber, Alfred, Portsmouth, England. Tobacco-pipe and cigar and cigarette holder. No. 1,373,849; Apr. 5; v. 285; p. 91.

Weber, George W., Watertown, Wis. Hairpin. No. 1,374,264; Apr. 12; v. 285; p. 212.

Weber, Guillaume, Hayange, assignor to Societe Les Petits Fils De Francois De Wendel Et Cie., Paris, France. Explosive. No. 1,375,243; Apr. 19; v. 285; p. 464.

Weber, Tobias, Los Angeles, Calif. Coupling. No. 1,375,266; Apr. 19; v. 285; p. 468.

Webster, Emmett S. (See Smith, C. L., and Webster, assignor.)

Webster, George P., Seattle, Wash. Valve-spring-compressing clamp. No. 1,374,694; Apr. 12; v. 285; p. 296.

Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Apparatus for calibrating rollers for antifriction roller-bearings. No. 1,374,127; Apr. 5; v. 285; p. 145.

Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-bearing. No. 1,375,877; Apr. 26; v. 285; p. 616.

Weida, Harry, Highland Park, N. J., assignor to India Rubber Company. Molded rubber article. No. 1,373,472; Apr. 5; v. 285; p. 18.

Welder, Frederick J. (See Towe, Edward, assignor.)

Weil, Louis S., Glenrose, Ohio. Wire-spoke wheel. No. 1,375,267; Apr. 19; v. 285; p. 468.

Weimar, William, Appleton, Wis. Treating fibrous materials. No. 1,375,125; Apr. 19; v. 285; p. 441.

Weiss, Henry, New York, N. Y. Electromedical brush. No. 1,374,414; Apr. 12; v. 285; p. 241.

Weiss, John M., New York, N. Y., and C. B. Downs, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of fluorene. No. 1,374,695; Apr. 12; v. 285; p. 296.

Weith, Archie J. (See Redman, L. V., Weith, and Brock.)

Weller, George L., Elyria, Ohio. Drinking device. No. 1,376,059; Apr. 26; v. 285; p. 652.

Wells, Alfred A. (See Ellis, C., and Wells.)

Wells, George W., assignor to Walker Wells Company, Amesbury, Mass. Cowl-ventilator for motor-vehicles. No. 1,374,696; Apr. 12; v. 285; p. 296.

Wells, Horace N., Hoboken, N. J. Paint. No. 1,374,128; Apr. 5; v. 285; p. 145.

Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Film-expanding pressure-guide. No. 1,373,926; Apr. 5; v. 285; p. 107.

Wendtland, William, New York, N. Y. Artificial eye. No. 1,373,579; Apr. 5; v. 285; p. 39.

Wentz, Jere L., Passaic, assignor to Portable Machinery Company, Inc., Clifton, N. J. Device for positioning apparatus and the like. No. 1,376,125; Apr. 26; v. 285; p. 665.

Wenzelmann, Gustave, Galesburg, Ill. Tractor-fender. No. 1,375,193; Apr. 19; v. 285; p. 454.

Wermes, Frank, Waterloo, Iowa. Adjustable tool-holder. No. 1,373,926; Apr. 5; v. 285; p. 107.

Werndll, Heinrich, Zurich, Switzerland. Exercising apparatus. No. 1,374,697; Apr. 12; v. 285; p. 296.

Werner, Alfred G., Omaha, Nebr. Electric heater. No. 1,375,194; Apr. 19; v. 285; p. 455.

Werner, Otto P., and T. W. Arnt, Milwaukee, Wis. Beater. No. 1,375,338; Apr. 19; v. 285; p. 482.

Wertheimer, Gotthold E., New York, N. Y. Preparing stencil-plates, die-plates, and the like. No. 1,376,865; Apr. 26; v. 285; p. 710.

Wertheimer, Gotthold E., New York, N. Y. Solution or bath for use in electrically preparing stencil-plates, die-plates, and the like. No. 1,376,366; Apr. 26; v. 285; p. 710.

Wertheimer, Gotthold E., Astoria, N. Y. Solution or bath for electrically preparing stencil-plates, die-plates, and the like. No. 1,376,367; Apr. 26; v. 285; p. 710.

Wertheimer, Gotthold E., Astoria, N. Y. Solution or bath for use in electrically preparing stencil-plates, die-plates, and the like. No. 1,376,368; Apr. 26; v. 285; p. 710.

Wertheimer, Gotthold E., Astoria, N. Y. Solution or bath for use in electrically preparing stencil-plates, die-plates, and the like. No. 1,376,369; Apr. 26; v. 285; p. 711.

Werts, David E., Olympia, Wash. Locking device. No. 1,374,048; Apr. 5; v. 285; p. 130.

Wertz, Peter, *et al.* (See Kearns, William S., assignor.)

Wessoleck, Augustus W., New Britain, Conn. Windshield-cleaner. No. 1,375,878; Apr. 26; v. 285; p. 617.

West, Charles, London, England. Fastening device. No. 1,373,782; Apr. 5; v. 285; p. 77.

West, Walter A., Elkhorn, Wis. Can-jacket. No. 1,375,480; Apr. 19; v. 285; p. 509.

Western Aircraft Corporation. (See Balzer, V. W., and Ballou, assignors.)

Western Electric Company. (See Arnold, Harold D., assignor.)

Western Electric Company. (See Bancroft, Erwin P., assignor.)

Western Electric Company. (See Britton, Ernest C., assignor.)

Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)

Western Electric Company. (See Colpitts, Edwin H., assignor.)

Western Electric Company. (See Cummings, George C., assignor.)

Western Electric Company. (See Dixon, Amos F., assignor.)

Western Electric Company. See Ford, William H. D., assignor.)

Western Electric Company. (See Goodrum, Charles L., assignor.)

Western Electric Company. (See Grondahl, Hans H. C., assignor.)

Western Electric Company. (See Hall, John A., assignor.)

Western Electric Company. (See Harlow, John B., assignor.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See Moore, Charles P., assignor.)
Western Electric Company. (See Pfannenstiehl, Harry, assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Rainey, Paul M., assignor.)
Western Electric Company. (See Reynolds, John N., assignor.)
Western Electric Company. (See Scriven, Edward O., assignor.)
Western Electric Company. (See Thompson, George, assignor.)
Western Electric Company. (See White, Charles, assignor.)
Western Electric Manufacturing Company. (See Tynn, Valère A., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Co. (See Baumann, Karl, assignor.)
Westinghouse Electric and Manufacturing Company. (See Coulson, John, assignor.)
Westinghouse Electric and Manufacturing Company. (See Dann, Walter M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, C. L., and Gilchrest, assignors.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Garbutt, Harry L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hall, Arthur J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hoey, Samuel C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kunkle, Bayard D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Matthews, Harry, assignor.)
Westinghouse Electric & Manufacturing Company. (See Perkins, Laurence M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)
Weyand, Edith V. C., New York, N. Y. Garment material. No. 1,374,970; Apr. 19; v. 285; p. 411.
Weydell, Frank O., Chicago, Ill. Drawing-board table. No. 1,373,473; Apr. 5; v. 285; p. 18.
Whatley, George W., Clovis, N. Mex. Clevis. No. 1,373,692; Apr. 5; v. 285; p. 60.
Wheary, George H., Racine, Wis. Automobile trunk-holder. No. 1,374,618; Apr. 12; v. 285; p. 281.
Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Collapsible container. No. 1,375,070; Apr. 19; v. 285; p. 431.
Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
Wheeler, William I., Scottsville, Ill. Transmission mechanism for automobiles. No. 1,374,265; Apr. 12; v. 285; p. 212.
Wheeling Tile Company. (See Amos, Frank M., assignor.)
Whitaker, William R. (See Danciewicz, A., and Whitaker.)
Whitcomb, Russell, Elizabeth, and G. H. Harman, Glen Ridge, N. J. Powder-puff. No. 1,376,179; Apr. 26; v. 285; p. 674.
White, Alfred H., Ann Arbor, Mich. Destructively decomposing liquids of high organic content and product of such process. No. 1,374,889; Apr. 12; v. 285; p. 333.
White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Generating system. No. 1,374,266; Apr. 12; v. 285; p. 212.
White, Charles H., Hanford, Calif. Railway-crossing. No. 1,374,415; Apr. 12; v. 285; p. 242.
White, Charles J., Leesville, La. Tractor. No. 1,374,049; Apr. 5; v. 285; p. 130.
White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Kindler-holder. No. 1,374,619; Apr. 12; v. 285; p. 281.
White, Gilbert E., Des Moines, Iowa. Fluid-pressure feeding mechanism. No. 1,374,789; Apr. 12; v. 285; p. 314.
White, Herbert E., and H. F. Philbin, assignors to The General Fireproofing Company, Youngstown, Ohio. Metal furniture construction. No. 1,374,868; Apr. 12; v. 285; p. 329.
White, Herbert P., Philadelphia, Pa. Safety-switch. No. 1,375,946; Apr. 26; v. 285; p. 630.
Whitehead, George R., New York, N. Y. Diamond-polishing machine. No. 1,374,267; Apr. 12; v. 285; p. 213.
Whitin Machine Works. (See Jeffers, Jesse, assignor.)
Whitmore, Gage, Casper, Wyo. Tank. No. 1,374,790; Apr. 12; v. 285; p. 314.
Whitney, Charles L., Conneaut, Ohio. Method of and apparatus for treating leather. No. 1,376,238; Apr. 26; v. 285; p. 685.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Safety-guard and leveling device. No. 1,373,544; Apr. 5; v. 285; p. 32.
Whitney, Rolvin S., Lewiston, Me. Bumper for motor-cars. No. 1,375,244; Apr. 19; v. 285; p. 464.
Whitridge, John C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck. No. 1,374,620; Apr. 12; v. 285; p. 281.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corp., Chicago, Ill. Lamp-supporting device. No. 1,374,268; Apr. 12; v. 285; p. 213.
Wiard, Frederick, assignor to American Standard Tool Company, Detroit, Mich. Lock for cutting-tool pilots. No. 1,375,339; Apr. 19; v. 285; p. 482.
Wicker, Adelbert R., Denver, Colo., assignor, by mesne assignments, to J. Hermann, Cincinnati, Ohio. Lock-controlled fuel-feed for carbureters. No. 1,374,621; Apr. 12; v. 285; p. 282.
Wickersham, Elmer E., Stockton, Calif. Treating liquid fuel. No. 1,376,180; Apr. 26; v. 285; p. 674.
Wickley, Edward W. (See Gardiner, William, assignor.)
Wicks, Arthur H., Woodstock, Ill. Anode. No. 1,373,693; Apr. 5; v. 285; p. 61.
Wiegman, Floyd A., Sioux City, Iowa. Pocket check-protector. No. 1,373,545; Apr. 5; v. 285; p. 32.
Wiener, David, New York, N. Y. Doll. No. 1,374,343; Apr. 12; v. 285; p. 227.
Wiener, David, New York, N. Y. Lingerie-clasp. No. 1,374,971; Apr. 19; v. 285; p. 411.
Wight, James M., Lakewood, assignor, by mesne assignments, to The United Banking & Savings Company, trustee, Cleveland, Ohio. Electrical recording or indicating apparatus for boilers. No. 1,373,474; Apr. 5; v. 285; p. 19.
Wikle, Hugh H., Chicago, Ill. Brush and manufacturing the same. No. 1,375,879; Apr. 26; v. 285; p. 617.
Wikstrom, Edward, Lowell, Mass. Grass-trimmer. No. 1,375,195; Apr. 19; v. 285; p. 455.
Wilbur, Joseph H., Winthrop, Mass. Twin-spring arch-supporter. No. 1,375,432; Apr. 19; v. 285; p. 500.
Wilde, John A., Indianapolis, Ind. Churning, beating, or mixing apparatus. No. 1,374,701; Apr. 12; v. 285; p. 297.
Wilde, Poul, Strömmen, near Randers, Denmark. Plant for warming and moistening the soil-surface. No. 1,374,416; Apr. 12; v. 285; p. 242.
Wilhelm, Rupsell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Tool-retainer for hammer-drills. No. 1,375,433; Apr. 19; v. 285; p. 500.
Wilhoit, Walter W., Louisville, Ky. Trap. No. 1,375,196; Apr. 19; v. 285; p. 455.
Wilkie, Edwin J., P. S. Stevens, and W. Lehman, assignors to Bucyrus Company, South Milwaukee, Wis. Dipper-tripping mechanism. No. 1,376,181; Apr. 26; v. 285; p. 674.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Apparatus for testing gear-wheels. No. 1,374,698; Apr. 12; v. 285; p. 296.
Willard Storage Battery Company. (See Cook, Thomas R., assignor.)
Willard, Theodore A., Cleveland, Ohio. Forming storage-battery separators. No. 1,375,763; Apr. 26; v. 285; p. 594.
Will-Burt Company, The. (See Baer, Edward G., assignor.)
Willett, Elsie, Alberton, Mont. Hand-grasp. No. 1,376,126; Apr. 26; v. 285; p. 665.
Willetts, Paul G., Fairmont, W. Va. Refractory insulation. No. 1,374,538; Apr. 12; v. 285; p. 265.
Williams, Arthur L., assignor to The Waterbury Brass Goods Corporation, Waterbury, Conn. Carrier. No. 1,376,370; Apr. 26; v. 285; p. 711.
Williams, C. C., trustee, Acting Chief of Ordnance. (See Crowe, Joseph N., assignor.)
Williams, Clarence D., Mountain Park, Okla. Headlight for vehicles. No. 1,374,344; Apr. 12; v. 285; p. 227.
Williams, Frank E., Alhambra, Calif. Shade-roller. No. 1,373,641; Apr. 5; v. 285; p. 50.
Williams, H. D. (See Kuffel, David C., assignor.)
Williams, Harry M., assignor of one-half to J. E. Coates, Little Rock, Ark. Signaling device. No. 1,376,127; Apr. 26; v. 285; p. 665.
Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Dispensing-machine. No. 1,375,947; Apr. 26; v. 285; p. 530.
Williams, James E., Chicago, Ill., assignor to Eastman Machine Company, Buffalo, N. Y. Cloth-cutting machine. No. 1,375,989; Apr. 26; v. 285; p. 638.
Williams, Joseph H., North Kansas City, Mo. Feed-grinding machine. No. 1,374,699; Apr. 12; v. 285; p. 297.

Williams, Lynn A., *et al.*, trustees. (See Chandler, Milford G., assignor.)
Williams, Milton F. (See Plaisted, Harold M., assignor.)
Williams, Oscar C., Indianapolis, Ind. Safety-razor. No. 1,376,182; Apr. 26; v. 285; p. 674.
Williams Patent Crusher & Pulverizer Co. (See Dean, Merrell A., assignor.)
Williamson, Daniel E., assignor of one-half to B. N. Burleson, Gates, Tenn. Bottom for soap-boxes. No. 1,376,239; Apr. 26; v. 285; p. 686.
Willis, Charlotte J. (See Teall, Russell F., assignor.)
Willis, George M., Chicago, Ill., and L. V. Newton, New York, N. Y., assignors to G. M. Willis, Chicago, Ill. Mounting for tanks and the like. No. 1,374,972; Apr. 19; v. 285; p. 411.
Willis, Le Roy W. (See Deems, E. M., and Willis.)
Willis, Paul M., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Self-luminous writing and reading device. No. 1,373,783; Apr. 5; v. 285; p. 78.
Willis, Warren E., assignor to E. I. Franklin & Co., North Attleboro, Mass. Buckle. No. 1,375,880; Apr. 26; v. 285; p. 617.
Willour, Le Roy, assignor to The Ashland Products Company, Ashland, Ohio. Lifting-jack. No. 1,373,475; Apr. 5; v. 285; p. 19.
Willwerscheid, Theodor R., St. Paul, Minn. Painting-machine. No. 1,375,126; Apr. 19; v. 285; p. 441.
Willys Corporation. (See Gilchrist, Clarence F., assignor.)
Wilmore, James A., *et al.* (See Hale, R. J., and Doyle, assignors.)
Wilms, Lee W. V., Chicago, Ill. Plantar-arch metatarsal foot-support. No. 1,375,340; Apr. 19; v. 285; p. 482.
Wilson, Charles L., Manette, Wash. Bucket-elevator. No. 1,375,881; Apr. 26; v. 285; p. 617.
Wilson, Amyuit L., assignor to The Petroleum Combustion Company, Elizabeth, N. J. Bureau for fluid fuel. No. 1,375,948; Apr. 26; v. 285; p. 630.
Wilson, Fred D., Moline, Ill. Tractor. No. 1,375,882; Apr. 26; v. 285; p. 617.
Wilson, Hiram, Mondovi, Wis. Flexible metal joint. No. 1,374,129; Apr. 5; v. 285; p. 145.
Wilson, James E., Eldorado, Ill. Slide-rail holder. No. 1,376,128; Apr. 26; v. 285; p. 665.
Wilson, Maurice E., Perry, Ohio. Flytrap. No. 1,374,539; Apr. 12; v. 285; p. 266.
Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Well-tubing catcher. No. 1,374,540; Apr. 12; v. 285; p. 266.
Wilson, Ross D., Kokomo, Ind. Motor-stand. No. 1,373,927; Apr. 5; v. 285; p. 107.
Wilson, Thomas N., Clarinda, Iowa. Aeroplane structure. No. 1,374,700; Apr. 12; v. 285; p. 297.
Wilson, Thomas R., Driggs, Idaho. Stove-door. No. 1,375,620; Apr. 19; v. 285; p. 635.
Wilson, Walter C., Johnson City, Tenn. Bookcase and magazine-holder. No. 1,374,269; Apr. 12; v. 285; p. 213.
Wilton, George W. (See Watkins, L. F., and Wilton, assignors.)
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
Winkler, Carl, Berne, Switzerland. Sheet-delivery for printing-machines. No. 1,374,791; Apr. 12; v. 285; p. 314.
Winkler, Carl, Berne, Switzerland. Sheet feeding. No. 1,376,183; Apr. 26; v. 285; p. 675.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,374,869; Apr. 12; v. 285; p. 329.
Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulator for electric generators. No. 1,373,928; Apr. 5; v. 285; p. 107.
Winton, Alexander, Lakewood, Ohio. Valve structure for internal-combustion motors. No. 1,376,060; Apr. 26; v. 285; p. 652.
Wisnipolsky, Ike, Brooklyn, N. Y. Marking device. No. 1,374,482; Apr. 12; v. 285; p. 255.
Wisdom, James N., Elma, Wash. Roller thrust-bearing for friction-drums. No. 1,373,929; Apr. 5; v. 285; p. 108.
Witbeck, Desford, assignor to P. C. Murphy Trunk Company, St. Louis, Mo. Skirt-hanger. No. 1,375,808; Apr. 26; v. 285; p. 603.
Witham, Homer S., Jacksonville, Fla. Trunk-strap and fastener therefor. No. 1,376,240; Apr. 26; v. 285; p. 686.
Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Drying-form. No. 1,373,694; Apr. 5; v. 285; p. 61.
Witte, Theodore, Makoti, N. D. Guard-finger and finger-bar. No. 1,374,973; Apr. 19; v. 285; p. 411.
Wittenmyer, Arthur L., Kirkland, Wash. Hot-plate lifter. No. 1,375,268; Apr. 19; v. 285; p. 468.
Wittman, Edward J., assignor to Illinois Watch Case Company, Elgin, Ill. Watch-bow fastener. No. 1,375,434; Apr. 19; v. 285; p. 500.
Wizner, Edward K., Milwaukee, Wis. Automatic lighting device for talking-machines. No. 1,375,341; Apr. 19; v. 285; p. 482.
Wodicka, Felix. (See Duerst, William B., assignor.)
Woisard, Edgar E. D., Pittston, Pa. Dental appliance. No. 1,374,792; Apr. 12; v. 285; p. 314.
Wojcik, John, Chicago, Ill. Lock. No. 1,374,793; Apr. 12; v. 285; p. 315.
Wolf, Jacob J., Jr., New Orleans, La. Camera. No. 1,374,794; Apr. 12; v. 285; p. 315.
Wolfe, Harry H., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Tension means for floor-surfacing machines. No. 1,374,345; Apr. 12; v. 285; p. 228.
Wolfe, Joel B. (See Van Patten, L. C., and Wolfe.)
Wolfe, Rowland H., Chicago, Ill. Can-opener. No. 1,374,702; Apr. 12; v. 285; p. 297.
Wonder Trap Co. (See Baker, William E., assignor.)
Wood, Clarence G., *et al.* (See Davis, Ernest F., assignor.)
Woodard, William E., Lima, Ohio. Geared locomotive. No. 1,376,061; Apr. 26; v. 285; p. 652.
Wood-Craft Company. (See Granswick, Carl A., assignor.)
Wood, John W., Covington, Tenn. Hoe. No. 1,374,795; Apr. 12; v. 285; p. 315.
Wood, Leonard E., Valleyfield, Quebec, Canada. Armature-winding machine. No. 1,375,745; Apr. 26; v. 285; p. 591.
Wood, William G., Berkeley, assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight-mounting. No. 1,374,622; Apr. 12; v. 285; p. 282.
Woodbury, John E., Worcester, Mass. Sheet-feeding machine. No. 1,374,130; Apr. 5; v. 285; p. 145.
Woodbury, John E., Worcester, Mass. Automatic delivery for die-presses. No. 1,374,131; Apr. 5; v. 285; p. 146.
Woodcock, Willard J., Brooklyn, N. Y. Advance and retard fuel-oil pump. No. 1,375,746; Apr. 26; v. 285; p. 591.
Woodland, Bert L., Muskegon, Mich. Piston construction. No. 1,373,989; Apr. 5; v. 285; p. 120.
Woods, Charles S., Indianapolis, Ind. Window-ventilator. No. 1,376,184; Apr. 26; v. 285; p. 675.
Woods, Norman E. (See Lassiter, Columbus K., assignor.)
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward, Alva W., assignor to The Firestone Steel Products Company, Akron, Ohio. Demountable rim. No. 1,375,435; Apr. 19; v. 285; p. 500.
Woodward, Frederick S., Richmond Hill, N. Y. Electrolytic process. No. 1,374,541; Apr. 12; v. 285; p. 266.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,375,764; Apr. 26; v. 285; p. 594.
Woofter, Herbert A., Swampscott, assignor to Thomson Electric Welding Company, Boston, Mass. Transformer secondary connection for electrical metal-working apparatus. No. 1,375,765; Apr. 26; v. 285; p. 595.
Wooldridge, John B., Kansas City, Mo. Well-drilling device. No. 1,376,302; Apr. 26; v. 285; p. 698.
Woolson, Marie, Chicago, Ill. Folding warbrobe. No. 1,375,883; Apr. 26; v. 285; p. 617.
Worcester Metal Goods Company. (See Smith, Clarence E., assignor.)
Worth Bros. (See Worth, John S., assignor.)
Worth Brothers Corporation. (See Worth, John S., assignor.)
Worth, John S., Coatesville, assignor to Worth Brothers Corporation, Claymont, Del. Rolling-mill. No. 1,373,850; Apr. 5; v. 285; p. 91.
Worth, John S., assignor to Worth Bros. Coatesville, Pa. Continuous heating-furnace. No. 1,374,132; Apr. 5; v. 285; p. 146.
Wright, Carl J., Toledo, Ohio. Gas-furnace. No. 1,374,796; Apr. 12; v. 285; p. 315.
Wright, Hamilton M., Jr., New Rochelle, N. Y. Gas-engine cut-out muffler. No. 1,375,621; Apr. 19; v. 285; p. 535.
Wright, Jefferson G., Connell, assignor of one-third to W. F. Steinmeyer, Eltopia, Wash. Bridle-bit. No. 1,375,197; Apr. 19; v. 285; p. 455.
Wright, Joseph E., Lankershim, Calif. Dispenser for fruit-jars and the like. No. 1,373,695; Apr. 5; v. 285; p. 61.
Wright, Robert L., Los Angeles, Calif. Projectile. No. 1,374,703; Apr. 12; v. 285; p. 298.
Wright, Robert L., Los Angeles, Calif. Shell and projectile. No. 1,374,704; Apr. 12; v. 285; p. 298.
Wright, Robert L., Los Angeles, Calif. Projectile. No. 1,374,705; Apr. 12; v. 285; p. 298.
Wright, Robert L., Los Angeles, Calif. Projectile and bomb combined. No. 1,374,706; Apr. 12; v. 285; p. 298.
Wright, Robert L., Los Angeles, Calif. Shell and projectile. No. 1,374,707; Apr. 12; v. 285; p. 298.
Wright, Ross P., assignor to Reed Manufacturing Company, Erie, Pa. Collar-ironing machine. No. 1,373,580; Apr. 5; v. 285; p. 39.
Wright, William E., assignor of one-half to R. Marple, Charlotte, Mich. Gas-burner attachment. No. 1,376,241; Apr. 26; v. 285; p. 686.
Wrozina, Ignatius, assignor of one-third to O. J. Diehl and one-third to M. A. Heanue, Bridgeport, Conn. Making piano-hammers. No. 1,374,974; Apr. 19; v. 285; p. 411.
Wulf, John W., San Juan, Porto Rico. Fuse-plug. No. 1,373,696; Apr. 5; v. 285; p. 61.
Wurst, Earl H., Elyria, Ohio. Tapping and raveling apparatus for steel-furnaces and the like. No. 1,373,581; Apr. 5; v. 285; p. 39.
Wyatt, Clarence G., Camden, N. J. Mixing-machine. No. 1,373,784; Apr. 5; v. 285; p. 78.
Wyoming Shovel Works, The. (See Bell, James H., assignor.)

Yale & Towne Manufacturing Company, The. (See Schoell, Reinhold, assignor.)
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,376,371; Apr. 26; v. 285; p. 711.
Yarnall, James M., Yonkers, N. Y. Egg-carton. No. 1,374,050; Apr. 5; v. 285; p. 130.
Yater, James M., Nowata, Okla. Cutting-tool. No. 1,375,342; Apr. 19; v. 285; p. 483.
Yates, George, Cleveland, Ohio. Traction-motor. No. 1,374,708; Apr. 12; v. 285; p. 298.
Yates, George, Chicago, Ill. Wheel. No. 1,375,545; Apr. 19; v. 285; p. 521.
Yawman and Erbe Mfg. Co. (See Stevens, Isaac, assignor.)
Yennett, John, and E. T. Lonkert, Atlanta, Ga. Reel. No. 1,376,303; Apr. 26; v. 285; p. 698.
Yoder, David A. (See Eberly, Sylvester, assignor.)
Yorgensen, Paul L. L., Hartford, Conn. Toy pistol. No. 1,375,990; Apr. 26; v. 285; p. 638.
Young, Fay J., assignor of one-half to J. Kiel, Wayland, N. Y. Accelerating device for motor-cars. No. 1,375,436; Apr. 19; v. 285; p. 501.
Youngren, Oscar A., and J. A. Watt, assignors to National Life Preserver Company, New York, N. Y. Life-preserver. No. 1,374,623; Apr. 12; v. 285; p. 282.
Zaborsky, Daniel, Chicago, Ill. Spring-motor for bicycle. No. 1,374,797; Apr. 12; v. 285; p. 315.
Zaiden, David, New York, N. Y. Mechanical eye. No. 1,373,785; Apr. 5; v. 285; p. 78.
Zaiden, David, New York, N. Y. Mechanical motor. No. 1,373,786; Apr. 5; v. 285; p. 78.
Zegien, Casimir, Cleveland, Ohio. Wire-fabric armor-plate. No. 1,376,304; Apr. 26; v. 285; p. 699.
Zeidler, John L. (See Roosa, Frank A., assignor.)
Zeidler, William A., New York, N. Y. Collar-packaging machine. No. 1,374,975; Apr. 19; v. 285; p. 411.
Zeigler, Michael, Bay City, Mich. Automobile-radiator cover. No. 1,375,198; Apr. 19; v. 285; p. 455.
Ziegler, John, San Diego, Calif. Aeroplane. No. 1,376,305; Apr. 26; v. 285; p. 699.
Ziegler, John, San Diego, Calif. Aeroplane. No. 1,376,306; Apr. 26; v. 285; p. 699.
Ziegler, Leslie I., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Eccentric-shaft mounting. No. 1,373,930; Apr. 5; v. 285; p. 108.
Zigray, Martin, Chicago, Ill. Rivet-gage. No. 1,375,747; Apr. 26; v. 285; p. 591.
Zimmerle, Benjamin W., Sutton, Nebr. Penholder. No. 1,374,870; Apr. 12; v. 285; p. 330.
Zimmermann, Paul G., Keyport, N. J., assignor to Aeromarine Plane & Motor Company, New York, N. Y. Aeroplane control. No. 1,375,199; Apr. 19; v. 285; p. 455.
Ziska, Adam, Jr., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Mudguard. No. 1,373,990; Apr. 5; v. 285; p. 120.
Zolleis, John G., Newark, N. J. Valve-handle. No. 1,373,476; Apr. 5; v. 285; p. 19.
Zottoli, Anthony M., Quincy, Mass. Method of and apparatus for making building-blocks. No. 1,374,270; Apr. 12; v. 285; p. 213.
Zucker, Gottlieb F., Chicago, Ill. Engine-support clamp. No. 1,373,546; Apr. 5; v. 285; p. 33.
Zuhars, Benjamin C., and H. D. Clarke, assignors to The Ohio Tractor Company, Columbus, Ohio. Wheel-hub. No. 1,374,133; Apr. 5; v. 285; p. 146.
Zumwalt, Alva E., Caney, Kans. Making and repairing piston-rods. No. 1,374,624; Apr. 12; v. 285; p. 282.
Zyskowski, Stanislaw, Wilkes-Barre, Pa. Closure-fastener for ash-sifters. No. 1,373,851; Apr. 5; v. 285; p. 92.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. No. 57,562; Apr. 26; v. 285; p. 716.
Adam, Harry C., St. Louis, Mo. Lighting-fixture. No. 57,563; Apr. 26; v. 285; p. 716.
Almone, Raimondo C., New Rochelle, N. Y., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-cabinet. Nos. 57,564–65; Apr. 26; v. 285; p. 716.
Alderfer, John M., Akron, Ohio. Elastic vehicle-tire. No. 57,566; Apr. 26; v. 285; p. 716.
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Vacuum-insulated jug and casing therefor. No. 57,567; Apr. 26; v. 285; p. 716.
American Can Company. (See Eberhart, Felix, assignor.)
American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)
American La France Fire Engine Co. (See Knoblock, James W., assignor.)
Angerstein, Thomas C., Chicago, Ill. Road-guide. No. 57,569; Apr. 26; v. 285; p. 717.
Angerstein, Thomas C., Chicago, Ill. Road-marker. No. 57,568; Apr. 26; v. 285; p. 717.
Armstrong Cork Company. (See Swarr, Howard G., assignor.)
Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article of manufacture. No. 57,570; Apr. 26; v. 285; p. 717.
Balliet, Herbert S. (See Solan, P. F., and Balliet.) (Reissue.)
Balliett, Carl J., assignor to Foster-Milburn Company, Buffalo, N. Y. Plaque or thermometer-support. No. 57,460; Apr. 5; v. 285; p. 154.
Balthazar, Arthur, Chicopee Falls, and M. R. Shaw, Springfield, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 57,751; Apr. 26; v. 285; p. 717.
Barber, Cyrus L. (See McCormick, Ulysses S., assignor.)
Baron, Mary C., Hampden Meadows, R. I. Moisture-tank for a brooder-heater. No. 57,572; Apr. 26; v. 285; p. 717.
Baron, Mary C., Hampden Meadows, R. I. Brooder-hood. No. 57,573; Apr. 26; v. 285; p. 717.
Baum, Hugo, New York, N. Y. Doll. No. 57,489; Apr. 12; v. 285; p. 336.
Belden, Russell D., Marion, Ohio. Tire-casing. Nos. 57,490–1; Apr. 12; v. 285; pp. 336–7.
Benton, Ellery D. (See McAfee, J. B., Benton, and Davis.)
Bernecker, George E., Milwaukee, Wis. Light attachment for sound-reproducing machines. No. 57,574; Apr. 26; v. 285; p. 718.
Berry, Louis P., Jr., Memphis, Tenn. Sewage apparatus. No. 57,575; Apr. 26; v. 285; p. 718.
Bitterman Simon *et al.* (See Johnson, Charles E., assignor.)
Blabon, George W., Company, The. (See Cartwright, Frank, assignor.)
Black, Samuel D., and A. G. Decker, Towson, assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Portable electric tool. No. 57,576; Apr. 26; v. 285; p. 718.
Black, Samuel D., and A. G. Decker, Towson, assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Portable electric valve-grinder. No. 57,577; Apr. 26; v. 285; p. 718.
Bodmer, Christian, assignor to The Stanley Works, New Britain, Conn. Saw-set. No. 57,578; Apr. 26; v. 285; p. 718.
Bradfield, Fred E., Davenport, Iowa. Fender. No. 57,579; Apr. 26; v. 285; p. 718.
Branch, Charles S., Hammond, Ind. Cigarette-forming device. No. 57,581; Apr. 26; v. 285; p. 719.
Brant, David O., Owensmouth, Calif. Buttermilk-crock. No. 57,580; Apr. 26; v. 285; p. 719.
Brauer, Adolph K., deceased, S. D. Brauer, executrix, assignor to S. D. Brauer, Los Angeles, Calif. Sprinkler-body. No. 57,582; Apr. 26; v. 285; p. 719.
Brauer, Serena D., executrix. (See Brauer, Adolph K.)
Brewster, Frank H., assignor to Madison Tire & Rubber Co., Inc., Buffalo, N. Y. Tire-casing. No. 57,461; Apr. 5; v. 285; p. 154.
Brewster, Louise H., Lexington, Mass. Woven fabric or similar article. No. 57,492; Apr. 12; v. 285; p. 337.
Briggs, Elinor C., Pawhuska, Okla. Pennant. No. 57,583; Apr. 26; v. 285; p. 719.
Brown & Bigelow. (See Harris, Blaine H., assignor.)
Brown, Henry B., assignor to Taylor Instrument Companies, Rochester, N. Y. Pyrometer. No. 57,493; Apr. 12; v. 285; p. 337.
Bryant Electric Company. (See Nourse, Walter E., assignor.)
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,494; Apr. 12; v. 285; p. 337.
Bush & Lane Piano Company. (See Lane, Walter, assignor.)
Campbell, Arthur A., Santa Monica, Calif. Toothbrush. No. 57,584; Apr. 26; v. 285; p. 719.
Cartwright, Frank, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa. Floor-cloth. Nos. 57,495–503; Apr. 12; v. 285; pp. 337–9.
Case, Willard T., New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis. Grass mat. Nos. 57,504–10; Apr. 12; v. 285; pp. 339–40.
Central Flatiron Mfg. Co. (See Van Kuren, William J., assignor.)
Central Glass Works. (See Balda, Joseph O., assignor.)
Chambers, Fred E., assignor to Champion Brass Works, Coldwater, Mich. Loop lighting-fixture. No. 57,585; Apr. 26; v. 285; p. 719.
Champion Brass Works. (See Chambers, Fred E., assignor.)
Champion Brass Works. (See McFadden, Glenn E., assignor.)
Chesnut, James R. (See Lake, J. W., and Chesnut.)
Church, Clifford C., Needham, Mass. Wheeled vehicle. No. 57,586; Apr. 26; v. 285; p. 720.
Cordes, John, Douglas, N. D. Shelf. No. 57,587; Apr. 26; v. 285; p. 720.
Couturier, Ernst A., Laporte, Ind. Mouthpiece for musical instruments. No. 57,511; Apr. 12; v. 285; p. 340.

Crawford, Stuart L., Rochester, N. Y. Combination tube container for fruit syrup, flavoring extracts, and fruit acids. No. 57,588; Apr. 26; v. 285; p. 720.
Crex Carpet Company. (See Waldo, Algermont H., assignor.)
Danforth, Josephine B., Chattanooga, Tenn. Automobile service-flag. No. 57,512; Apr. 12; v. 285; p. 340.
Daniels, Louis, New York, N. Y. Strainer. No. 57,589; Apr. 26; v. 285; p. 720.
Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. Nos. 57,513–14; Apr. 12; v. 285; p. 340.
Davis, George W., Lincoln, Nebr. Bar for holding plate-glass store-fronts., No. 57,590; Apr. 26; v. 285; p. 720.
Davis, Milton K. (See McAfee, J. B., Benton, and Davis.)
Daylite Lens Company. (See Wooten, Carrol R., assignor.)
Delavan, Sophia E., Chicago, Ill. Doll. No. 57,515; Apr. 12; v. 285; p. 341.
Deltox Grass Rug Company. (See Case, Willard T., assignor.)
Desenfant, George A., San Francisco, Calif. Badge. No. 57,516; Apr. 12; v. 285; p. 341.
De Smet, Edgard C., assignor to Pan Motor Company, St. Cloud, Minn. Automobile-radiator shell or hood. No. 57,592; Apr. 26; v. 285; p. 721.
Decker, Alonzo G. (See Black, S. D., and Decker.)
Dempsey, Walter E., Craig, Nebr. Repair-buckle. No. 57,591; Apr. 26; v. 285; p. 720.
Dickerman, Franklin F., Philadelphia, Pa. Casing for street-receptacles. No. 57,593; Apr. 26; v. 285; p. 721.
Dickinson, Edward B. (See Hancock, Arnold F., assignor.)
Dieges, Charles J., New York, N. Y. Badge. No. 52,517; Apr. 12; v. 285; p. 341.
Dittmar, Charles, Cincinnati, Ohio. Graphophone. No. 57,594; Apr. 26; v. 285; p. 721.
Doman, Alexander, assignor of one-half to N. M. Rosen, New York, N. Y. Hat-lining. No. 57,595; Apr. 26; v. 285; p. 721.
Donahey, William, Chicago, Ill. Doll. Nos. 57,596–613; Apr. 26; v. 285; pp. 721–24.
Donahey, William, Chicago, Ill. Doll house. Nos. 57,614–17; Apr. 26; v. 285; pp. 724–5.
Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Prismatic glass globe. No. 57,618; Apr. 26; v. 285; p. 725.
Drury, Herbert R., Willoughby, Ohio. Antiglare device for automobile-headlights. No. 57,619; Apr. 26; v. 285; p. 725.
Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
Eaton, Albert N., Omaha, Nebr. Feed-trough. No. 57,620; Apr. 26; v. 285; p. 725.
Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 57,621–5; Apr. 26; v. 285; pp. 726–7.
Ecket, Cora G., Los Angeles, Calif. Figure toy. No. 57,518; Apr. 12; v. 285; p. 341.
Eisenstadt Manufacturing Company. (See Jacobs, Jacob A., assignor.)
Eisenstein, Harry, New York, assignor to The Montrose Glove, Inc., Brooklyn, N. Y. Glove. No. 57,626; Apr. 26; v. 285; p. 727.
Ennis, Overton W., Washington, D. C. Doll. No. 57,519; Apr. 12; v. 285; p. 341.
Erikson, Gustav A., Chicago, Ill. Chair. No. 57,627; Apr. 26; v. 285; p. 727.
Findlay, Robert Manufacturing Company. (See Kostszewski, Stephen, assignor.)
Finney, Charles S., Chicago, Ill. Beard-softener. No. 57,628; Apr. 26; v. 285; p. 727.
Fisk Rubber Company, The. (See Balthazar, A., and Shaw, assignors.)
Fisk Rubber Company, The. (See Gourley, R. P., and Partenheimer, assignors.)
Fortune, Marjorie P. D., Los Angeles, Calif. Pencil. No. 57,520; Apr. 12; v. 285; p. 342.
Foster-Milburn Company. (See Balliett, Carl J., assignor.)
Fox, Jacob, New York, N. Y., assignor to Thaltheimer Brothers, East Orange, and W. J. Klein, South Orange, N. J. Button. No. 57,629; Apr. 26; v. 285; p. 727.
Frampton, Benjamin W., Cleveland, Ohio. Nail-set. No. 57,630; Apr. 26; v. 285; p. 727.
Fritch, Elue O., Belmont, Mass., assignor to Hood Rubber Company, Watertown, Mass. Non-skid tread for automobile tires. No. 57,631; Apr. 26; v. 285; p. 728.
Fuller Brush Company, The. (See Hines, William J., assignor.)
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Match-receptacle. No. 57,632; Apr. 26; v. 285; p. 728.
Gelder, Leo V., Oakland, Calif. Domestic-boiler stand. No. 57,521; Apr. 12; v. 285; p. 342.
Gelder, Leo V., Oakland, Calif. Gas-burner for water-heaters. No. 57,633; Apr. 26; v. 285; p. 728.
General Electric Company. (See Gosling, Joseph, assignor.)
General Electric Company. (See Harrison, Ward, assignor.)
General Motors Corporation. (See Madison, George E., assignor.)
Giammarino, Joseph, assignor to O. Walsh M'f'g. Co., New York, N. Y. Wall-plate for mounting electric arms. No. 57,634; Apr. 26; v. 285; p. 728.
Gillig, Chester. (See Gillig, Leo and C.)
Gillig, Leo and C., San Francisco, Calif. Automobile-top. No. 57,635; Apr. 26; v. 285; p. 729.
Gits, Jules P., Chicago, Ill. Razor-knife. No. 57,636; Apr. 26; v. 285; p. 729.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Lamp-globe. No. 57,462; Apr. 5; v. 285; p. 154.
Gourley, Richard P., Springfield, and H. P. Partenheimer, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 57,637; Apr. 26; v. 285; p. 729.
Green, Robert J., St. Louis, Mo. Scarfpin or similar article of jewelry. No. 57,638; Apr. 26; v. 285; p. 729.
Griffin, Patrick J., Boston, Mass. Cap for air-valves. No. 57,639; Apr. 26; v. 285; p. 729.
Gross, Angus R., Baltimore, Md. Parking-light for automobiles. No. 57,640; Apr. 26; v. 285; p. 729.
Gruen, D., Sons & Company, The. (See Gruen, Frederick G., assignor.)
Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, O. Wristband-clasp. No. 57,641; Apr. 26; v. 285; p. 730.
Guinzburg, George K., New York, N. Y., assignor to I. B. Kleinert Rubber Company. Bathing-cap. No. 57,642; Apr. 26; v. 285; p. 730.
Guy Auto Hub Lock Company. (See Guy, Raymond M., assignor.)
Guy, Raymond M., assignor to Guy Auto Hub Lock Company, Winfield, Kans. Automobile-wheel-hub cap. No. 57,643; Apr. 26; v. 285; p. 730.
Haase, Leo G., Pasadena, Calif. Double bench. No. 57,644; Apr. 26; v. 285; p. 730.
Hake, Anna, administratrix. (See Hake, George H.)
Hake, George H., deceased; A. Hake, administratrix, St. Louis, Mo. Hairpin. No. 57,645; Apr. 26; v. 285; p. 730.
Hall, Melvin R., Columbus, Ohio. Font of type. No. 57,522; Apr. 12; v. 285; p. 342.
Hammond, William P., Passaic, N. J. Combination automobile tail-light and direction-indicator. No. 57,523; Apr. 12; v. 285; p. 342.
Hancock, Arnold F., Stoke-upon-Trent, England, assignor to Edward B. Dickinson, Inc., New York, N. Y. Plate or similar article. No. 57,646; Apr. 26; v. 285; p. 730.
Hand, Jay A. (See Kuhn, F., and Hand.)
Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Toy paper aeroplane. No. 57,647; Apr. 26; v. 285; p. 731.
Harrison, Ward, Cleveland, Ohio, assignor to General Electric Company. Lighting-globe. No. 57,463; Apr. 5; v. 285; p. 154.
Hendry, William, Tacoma, Wash. Automobile tail or signal light. No. 57,648; Apr. 26; v. 285; p. 731.
Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Sink-scraper. No. 57,649; Apr. 26; v. 285; p. 731.
Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Tray. No. 57,650; Apr. 26; v. 285; p. 731.
Hoenig, Emil, New York, N. Y. Statuette, sculpture, or article of similar nature. No. 57,651; Apr. 26; v. 285; p. 731.
Hoenig, Franz, New York, N. Y., assignor to Tobler & Hoenig. Lace. Nos. 57,464–73; Apr. 5; v. 284; pp. 155–6.
Hoenig, Franz, assignor to Tobler & Hoenig, New York, N. Y. Embroidery. Nos. 57,474–6; Apr. 5; v. 285; pp. 156–7.
Hollingshead, William B., Mount Vernon, N. Y. Phonograph-cabinet. No. 57,652; Apr. 26; v. 285; p. 731.
Holophane Glass Company. (See Dorey, William A., assignor.)
Holsberg, George A., San Francisco, Calif. Sunshade and visor for vehicle-windshields. No. 57,653; Apr. 26; v. 285; p. 732.
Hood Rubber Company. (See Fritch, Elue O., assignor.)
Hornburg, Charles A., Waco, Tex. Tire-placer. No. 57,654; Apr. 26; v. 285; p. 732.
Hubbell, Harvey, Bridgeport, Conn. Attachment-plug receptacle. No. 57,655; Apr. 26; v. 285; p. 732.
Humphrey, Alfred H., New York, N. Y. Gas-stove. No. 57,656; Apr. 26; v. 285; p. 732.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. Nos. 57,524–5; Apr. 12; v. 285; p. 342.
Hunt, Byron R., Indianapolis, Ind. Caddie-bag. No. 57,526; Apr. 12; v. 285; p. 343.
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
Ideal Tire and Rubber Company, The. (See Nahm, Emil H., assignor.)
Jacobs, Jacob A., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Finger-ring. No. 57,657; Apr. 26; v. 285; p. 732.
Jaffe, Samuel, Richmond, Ind. Radiator-cap. No. 57,658; Apr. 26; v. 285; p. 732.
Januchowsky, John, St. Louis, Mo. Handle-cover for boxes. No. 57,477; Apr. 5; v. 285; p. 157.

Johnson, Charles E., assignor of one-third to W. A. Johnson and one-third to S. Bitterman, Denver, Colo. Carbureter body or casing. No. 57,659; Apr. 26; v. 285; p. 733.
Johnson, William A., *et al.* (See Johnson, Charles E., assignor.)
Kennison, Willis E., Providence, R. I. Collar-holder. No. 57,660; Apr. 26; v. 285; p. 733.
King, William A., Memphis, Tenn. Automobile-fender. No. 57,661; Apr. 26; v. 285; p. 733.
Kingston, Ralph E., and F. W. Woodard, Rouses Point, N. Y. Combination-tool. No. 57,662; Apr. 26; v. 285; p. 733.
Kirch, John P., Pittsburgh, Pa. Tire. Nos. 57,663–71; Apr. 26; v. 285; pp. 733–5.
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Klein, William J., *et al.* (See Fox, Jacob, assignor.)
Kleinert, I. B., Rubber Company. (See Guinzburg, George K., assignor.)
Knoblock, James W., assignor to American La France Fire Engine Co. Inc., Elmira, N. Y. Respirator. No. 57,528; Apr. 12; v. 285; p. 343.
Knoblock, James W., assignor to American La France Fire Engine Co. Inc., Elmira, N. Y. Respirator-mask. No. 57,527; Apr. 12; v. 285; p. 343.
Knowles, Arthur J., Chattanooga, Tenn. Surface of a bottle. No. 57,672; Apr. 26; v. 285; p. 735.
Koetting, August, Brooklyn, N. Y. Hinge. No. 57,529; Apr. 12; v. 285; p. 343.
Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 57,673; Apr. 26; v. 285; p. 735.
Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Company, New York, N. Y. Arm for lighting-fixtures. No. 57,674; Apr. 26; v. 285; p. 735.
Kresteller, Morton T., San Francisco, Calif. Automobile service-car. No. 57,675; Apr. 26; v. 285; p. 736.
Kropacz, John, Calgary, Alberta, Canada. Wrench. No. 57,676; Apr. 26; v. 285; p. 736.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,530; Apr. 12; v. 285; p. 344.
Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Portable cook-stove. No. 57,478; Apr. 5; v. 285; p. 157.
Lake, John W., Dallas, and J. R. Chesnut, Fort Worth, Tex. Automobile-radiator cap. No. 57,677; Apr. 26; v. 285; p. 736.
Lane, Walter, Holland, Mich., assignor to Bush & Lane Piano Company. Cabinet-phonograph. No. 57,680; Apr. 26; v. 285; p. 736.
La Pierre, Arthur F., St. Louis, Mo. Phonograph-cabinet or similar article. Nos. 57,678–9; Apr. 26; v. 285; p. 736.
Laraway, Fred A., Cleveland, N. Y. Display-package of packing-gaskets. No. 57,531; Apr. 12; v. 285; p. 344.
Lazar, Anna, North Detroit, Mich. Scarf. No. 57,532; Apr. 12; v. 285; p. 344.
Lebolt & Company. (See Lebolt, Myer H., assignor.)
Lebolt, Myer H., assignor to Lebolt & Company, Chicago, Ill. Wedding-ring. No. 57,681; Apr. 26; v. 285; p. 737.
Le Fevre, August, Detroit, Mich. Flag, pennant, sign, emblem, or article of similar nature. No. 57,533; Apr. 12; v. 285; p. 344.
Leighton, Oscar E., Allston, assignor to R. M. Lovejoy, Boston, Mass. Shock-absorber. No. 57,682; Apr. 26; v. 285; p. 737.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Potato-knife. No. 57,534; Apr. 12; v. 285; p. 344.
Lickert, John H., assignor to Kit-chin-Kit Corporation, Evanston, Ill. Combination knife and fork. No. 57,683; Apr. 26; v. 285; p. 737.
Lickert, John H., assignor to Kit-chin-Kit Corporation, Evanston, Ill. Canning-knife. No. 57,684; Apr. 26; v. 285; p. 737.
Lobl, Frederick, Middleboro, Mass. Puff for applying powder and liquid preparations. No. 57,685; Apr. 26; v. 285; p. 737.
Loewenberg, Isador E., Converse, assignor to Wabash Basket Company, Marion, Ind. Basket. No. 57,535; Apr. 12; v. 285; p. 344.
Lord, Samuel C., Milton, Mass., assignor to Standard Thermometer Company, Portland, Me. Desk-thermometer. No. 57,686; Apr. 26; v. 285; p. 737.
Lovejoy, Ralph M. (See Leighton, Oscar E., assignor.)
Lowe, Leon P., San Francisco, Calif. Portable gas-heater. No. 57,687; Apr. 26; v. 285; p. 738.
Lukaszewska, Antoinette E. K., Buffalo, N. Y. Combined oil-stove and lamp-frame. No. 57,688; Apr. 26; v. 285; p. 738.
McAfee, Jesse B., E. D. Benton, and M. K. Davis, Dallas, Tex. Physician's traffic-signal. No. 57,697; Apr. 26; v. 285; p. 740.
McCormick, Ulysses S., assignor of one-fourth to C. L. Barber, Buffalo, N. Y. Headlight-dimmer. No. 57,698; Apr. 26; v. 285; p. 740.
McFadden, Glenn E., Lincoln, Nebr., assignor to Champion Brass Works, Coldwater, Mich. Loop for lighting-fixtures. No. 57,699; Apr. 26; v. 285; p. 740.
McLarn Ernest S., Glenwood Landing, assignor to Western Electric Company, Incorporated, New York, N. Y. Desk-stand for hand-telephones. Nos. 57,700–1; Apr. 26; v. 285; p. 740.
Madison, George E., Flint, assignor to General Motors Corporation, Detroit, Mich. Top for motor-vehicles. No. 57,689; Apr. 26; v. 285; p. 738.
Madison Tire & Rubber Co. (See Brewster, Frank H., assignor.)
Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Arm for lighting-fixtures. Nos. 57,690–1; Apr. 26; v. 285; p. 738.
Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Lighting-fixture. Nos. 57,692–3; Apr. 26; v. 285; p. 739.
Maker, Fred S. (See Maker, Ralph K. and F. S.)
Maker, Ralph K. and F. S., Providence, R. I. Collar-holder. No. 57,694; Apr. 26; v. 285; p. 739.
Mannes, Benjamin F., Chippewa Falls, Wis. Font of type. No. 57,536; Apr. 12; v. 285; p. 345.
Manning, J. E., *et al*, trustees. (See Mullvain, Earnest E., assignor.)
Maul, Otto E., Mount Vernon, N. Y. Appliqué trimming for wearing-apparel or article of similar nature. No. 57,537; Apr. 12; v. 285; p. 345.
Maurer, Ruth J., La Crosse, Wis. Bottle. No. 57,695; Apr. 26; v. 285; p. 739.
Maurer, Ruth J., La Crosse, Wis. Jar. No. 57,696; Apr. 26; v. 285; p. 739.
Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 57,538; Apr. 12; v. 285; p. 345.
Mendelsohn, Herman T., assignor to Simon & Mendelsohn, New York, N. Y. Netted fabric. No. 57,539; Apr. 12; v. 285; p. 345.
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Miller, Edward H., New York, N. Y. Bracelet. No. 57,702; Apr. 26; v. 285; p. 741.
Miller, John A., Los Angeles, Calif. Windshield. No. 57,703; Apr. 26; v. 285; p. 741.
Miller, John C., Cincinnati, Ohio. Class pin or emblem. No. 57,704; Apr. 26; v. 285; p. 741.
Miller Rubber Company, The. (See Ofensend, Chase F., assignor.)
Mills, Morris M., San Antonio, Tex. Display-stand. No. 57,705; Apr. 26; v. 285; p. 741.
Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
Mojonnier, Julius J., Oak Park, assignor to Mojonnier Bros. Co., Chicago, Ill. Bottle. No. 57,479; Apr. 5; v. 285; p. 157.
Montrose Glove Inc., The. (See Eisenstein, Harry, assignor.)
Moorhouse, Walter, West New York, N. J. Cushion-hammer. No. 57,706; Apr. 26; v. 285; p. 741.
Morreau Company, The. (See Maerz, Frederick K., assignor.)
Morrison, James C., Highland Park, assignor to Nyal Company, Detroit, Mich. Jar or similar container. No. 57,707; Apr. 26; v. 285; p. 741.
Mullvain, Earnest E., Berkeley, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and V. A. Shafer, trustees for National Auto Signal Company, Automobile-signal. No. 57,708; Apr. 26; v. 285; p. 742.
Nahm, Emil H., assignor to The Ideal Tire and Rubber Company, Cleveland, Ohio. Vehicle-tire. No. 57,709; Apr. 26; v. 285; p. 742.
New Jersey Patent Company. (See Aimone, Raimondo C., assignor.)
Newland, Barnet, New York, N. Y. Combined chandelier stem and distributer. No. 57,710; Apr. 26; v. 285; p. 742.
Newton, Alfred J., Providence, R. I. Collar-holder. No. 57,711; Apr. 26; v. 285; p. 742.
Newton, Richard T., New York, N. Y. Bumper-bar. No. 57,712; Apr. 26; v. 285; p. 742.
Nissen, John P., Philadelphia, Pa. Hosiery. No. 57,540; Apr. 12; v. 285; p. 345.
North American Lace Company. (See Daudy, Marc H., assignor.)
Nourse, Walter E., Boston, Mass., assignor to The Bryant Electric Company, Bridgeport, Conn. Plug-contact device. No. 57,713; Apr. 26; v. 285; p. 742.
Nyal Company. (See Morrison, James C., assignor.)
O'Brien, James E., Hinton, W. Va. Combination ash-tray and cigar-holder. No. 57,541; Apr. 12; v. 285; p. 346.
Ofensend, Chase F., assignor to The Miller Rubber Company, Akron, Ohio. Tire. No. 57,480; Apr. 5; v. 285; p. 157.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. Nos. 57,481–2; Apr. 5; v. 285; p. 157.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. Nos. 57,714–17; Apr. 26; v. 285; p. 743.
Pan Motor Company. (See De Smet, Edgard C., assignor.)
Pape, Herman G., New York, N. Y. Housing for phonetic instruments. No. 57,718; Apr. 26; v. 285; p. 743.
Partenheimer, Harold P. (See Gourley, R. P., and Partenheimer.)
Pfeiffer, Frederick, Sr., Brooklyn, N. Y. Dish or similar receptacle. No. 57,719; Apr. 26; v. 285; p. 743.
Pick, Albert, and Company. (See Pick, Hugo, assignor.)
Pick, Hugo, assignor to Albert Pick and Company, Chicago, Ill. Sundae-cup holder. No. 57,720; Apr. 26; v. 285; p. 743.
Plummer, Solomon, Los Angeles, Calif. Soft-collar fastener. No. 57,721; Apr. 26; v. 285; p. 744

Pomeroy, Laurence H., Cleveland, Ohio. Combined automobile hood and radiator. No. 57,722; Apr. 26; v. 285; p. 744.
Potstada, George, Oakland, Calif. Electric heater. No. 57,542; Apr. 12; v. 285; p. 346.
Rapattoni, Ernest, Los Angeles, Calif. Automobile-body. Nos. 57,723–4; Apr. 26; v. 285; p. 744.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,543; Apr. 12; v. 285; p. 346.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,544; Apr. 12; v. 285; p. 346.
Richard, François, Cleveland, Ohio. Wheel. No. 57,725; Apr. 26; v. 285; p. 744.
Richard, François, Cleveland, Ohio. Automobile-radiator. No. 57,726; Apr. 26; v. 285; p. 745.
Rietz, Carl A., San Francisco, Calif. Electric-motor casing. No. 57,483; Apr. 5; v. 285; p. 158.
Robertson, Sylvia S., Clear Lake, Iowa. Dress or frock. No. 57,727; Apr. 26; v. 285; p. 745.
Rockford Milling Machine Company. (See Sunstrand, Oscar J., assignor.)
Rosen, Nathan M. (See Doman, Alexander, assignor.)
Rossein, Morris, Brooklyn, N. Y. Ring. No. 57,728; Apr. 26; v. 285; p. 745.
Saegesser, Albert W., Granite City, Ill. Automobile-wheel lock. No. 57,729; Apr. 26; v. 285; p. 745.
Salazar, Eugene, San Francisco, Calif. Basket. No. 57,730; Apr. 26; v. 285; p. 745.
Second National Bank of Baltimore, trustee. (See Black, S. D., and Decker, assignors.)
Shafer, Van A., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Shankland, Frank S., Des Moines, Iowa. Badge or emblem. No. 57,545; Apr. 12; v. 285; p. 346.
Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 57,732; Apr. 26; v. 285; p. 746.
Shapiro & Aronson. (See Westphal, Gottfried, assignor.)
Shaw, Myron R. (See Balthazar, A., and Shaw.)
Sheriff, J Ed, Mount Vernon, N. Y. Hub-cap or similar article. No. 57,733; Apr. 26; v. 285; p. 746.
Simmons, John W., Cleveland, Ohio. Bumper. No. 57,734; Apr. 26; v. 285; p. 746.
Simon & Mendelsohn. (See Mendelsohn, Herman T., assignor.)
Sincole, George, Detroit, Mich. Fly-catcher. No. 57,735; Apr. 26; v. 285; p. 746.
Sisaire, Maurice H. L., Park Royal, London, England. Automobile-radiator. No. 57,736; Apr. 26; v. 285; p. 746.
Solan, Patrick F., and H. S. Balliet, New York, N. Y. Non-slipping paving composition. (Reissue.) No. 15,097; Apr. 26; v. 285; p. 715.
Southard, Walter P., Rocky River, Ohio. Letter-head. No. 57,546; Apr. 12; v. 285; p. 347.
Spak, Louis, Polar, Wis. Comb-cleaning device. No. 57,737; Apr. 26; v. 285; p. 747.
Sparks, William, Jackson, Mich. Radiator-shell. No. 57,738; Apr. 26; v. 285; p. 747.
Springer, Edward H., Santa Monica, Calif. Doll-head. No. 57,547; Apr. 12; v. 285; p. 347.
Standard Thermometer Company. (See Lord, Samuel C., assignor.)
Stanley Works, The. (See Bodmer, Christian, assignor.)
Starrett, Arthur H., assignor to The L. S. Starrett Company, Athol, Mass. Prick-punch, nail-set, or article of similar nature. No. 57,548; Apr. 12; v. 285; p. 347.
Starrett, L. S., Company, The. (See Starrett, Arthur H., assignor.)
Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)
Stolley, William A., Dowagiac, Mich. Fish-bait body. No. 57,739; Apr. 26; v. 285; p. 747.
Streich, Edward C., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Streich, M. C., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Strnad, Louis G., Chicago, Ill. Curtain-rod holder. No. 57,740; Apr. 26; v. 285; p. 747.
Stuts, Harry C., Indianapolis, Ind. Radiator-cap. No. 57,741; Apr. 26; v. 285; p. 747.
Sundstrander, Oscar J., Rockford, Ill., assignor to Rockford Milling Machine Company. Cash-register. No. 57,742; Apr. 26; v. 285; p. 747.
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)
Susquehanna Silk Mills. (See Reith, William G., assignor.)
Svarz, Louis, *et al.* (See Swihart, Elmer E., assignor.)
Swarr, Howard G., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Boot or shoe heel. No. 57,743; Apr. 26; v. 285; p. 748.
Swihart, Elmer E., assignor of one-third to L. Svarz, and one-third to C. H. Woodis, Seattle, Wash. Combined kitchen-reminder and advertising-chart. No. 57,744; Apr. 26; v. 285; p. 748.
Taylor Instrument Company. (See Brown, Henry B., assignor.)
Telling, William E., Cleveland, Ohio. Miniature billboard. Nos. 57,484–5; Apr. 5; v. 285; p. 158.
Terrell, Alva C., Kansas City, Mo. Tire-tread. No. 57,745; Apr. 26; v. 285; p. 748.
Thaltheimer Brothers, *et al.* (See Fox, Jacob, assignor.)
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. No. 57,746; Apr. 26; v. 285; p. 748.
Tobler & Hoenig. (See Hoenig, Franz, assignor.)
Trilach, Oscar W., Whitestone, N. Y. Display-box for bead necklaces. No. 57,747; Apr. 26; v. 285; p. 748.
Turnbull, Andrew, New Britain, Conn. Plane-block for chisels. No. 57,748; Apr. 26; v. 285; p. 748.
Van Kuren, William J., Binghamton, assignor to Central Flatiron Mfg. Co., Johnson City, N. Y. Tire-chain tool. No. 57,549; Apr. 12; v. 285; p. 347.
Vits, Albert J., Manitowoc, Wis. Syrup-jug. No. 57,486; Apr. 5; v. 285; p. 158.
Vits, Albert J., Manitowoc, Wis. Pitcher. No. 57,487; Apr. 5; v. 285; p. 158.
Vivaudou, Victor, New York, N. Y. Container. No. 57,488; Apr. 5; v. 285; p. 158.
Wabash Basket Company. (See Loewenberg, Isador E., assignor.)
Wackt, Erik A., Sycamore, Ill. Tailor's shears. No. 57,749; Apr. 26; v. 285; p. 749.
Waldo, Algermont H., St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y. Rug. Nos. 57,550–7; Apr. 12; v. 285; pp. 347–9.
Walsh, Owen M'f'g Co. (See Giammarino, Joseph, assignor.)
Watson, Charles G., Alma, Mich. Match-box holder. No. 57,750; Apr. 26; v. 285; p. 749.
Webb, Jesse H., Rochester, N. Y. Rocking-horse. Nos. 57,558–9; Apr. 12; v. 285; p. 349.
Webb, Jesse H., Rochester, N. Y. Rocking-horse. No. 57,751; Apr. 26; v. 285; p. 749.
Webber, Gardner M., Stoneham, Mass. Name-plate. No. 57,752; Apr. 26; v. 285; p. 749.
Western Electric Company. (See McLarn, Ernest S., assignor.)
Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Plate for lighting-fixtures. No. 57,753; Apr. 26; v. 285; p. 749.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument-mount for an automobile instrument-board. No. 57,754; Apr. 26; v. 285; p. 749.
Wilcox, John L., Seattle, Wash. Attachment for chairs. No. 57,560; Apr. 12; v. 285; p. 350.
Willman, Herman V., Maywood, Ill. Lighting-fixture-bowl support. No. 57,755; Apr. 26; v. 285; p. 750.
Wilson, Frederick W., New York, N. Y. Sign. No. 57,756; Apr. 26; v. 285; p. 750.
Wilson, James, Pueblo, Colo. Cleaning and alining device for gin and delinter saw teeth. No. 57,561; Apr. 12; v. 285; p. 350.
Woodard, Frank W. (See Kingston, R. E., and Woodard.)
Woodis, C. H., *et al.* (See Swihart, Elmer E., assignor.)
Wooten, Carrol R., assignor to Daylite Lens Company, Dallas, Tex. Lens for headlight. No. 57,757; Apr. 26; v. 285; p. 750.
Yockey, Edward, Milwaukee, Wis. Tire. No. 57,731; Apr. 26; v. 285; p. 746.
Yockey, Edward, Milwaukee, Wis. Tire. No. 57,758; Apr. 26; v. 285; p. 750.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aaron Newmark, Inc., New York, N. Y. Women's muslin and silk underwear. No. 141,065; Apr. 12; v. 285; p. 379.

Abbe, Paul O., Inc., New York, N. Y. Crushing, cutting, grinding, mixing, pulverizing, and sifting machinery. No. 141,305; Apr. 19; v. 285; p. 565.

Abrams, Francis R., Inwood, N. Y. Mouth-wash. No. 141,086; Apr. 12; v. 285; p. 379.

Adams & Westlake Company, The, Chicago, Ill. Trimmings for railway-cars. No. 141,466; Apr. 26; v. 285; p. 777.

Ades Product Corporation. (See Leister, Max H., assignor.)

Aerial Hat Company, New York, N. Y. Women's and misses' hats. No. 141,067; Apr. 12; v. 285; p. 379.

Aero Pulverizer Company, The, Portland, Me., and New York, N. Y. Pulverizing machinery of the beater type and parts thereof. No. 141,467; Apr. 26; v. 285; p. 777.

Ainsley, J. C., Packing Co., Campbell, Calif. Canned fruits. No. 141,468; Apr. 26; v. 285; p. 777.

Air Reduction Company, Incorporated, New York, N. Y. Oxyacetylene welding and cutting apparatus. No. 141,469; Apr. 26; v. 285; p. 777.

Albert, Joseph, Brooklyn, N. Y. Washable textile-fabric linings cut, sewn, and ready. No. 141,068; Apr. 12; v. 285; p. 379.

Alexander, Charles O., Philadelphia, Pa. Tungsten, nitrogen, and carbon lamps. No. 141,069; Apr. 12; v. 285; p. 379.

Allen Company, New Bedford, Mass. Textile-mill supplies. No. 141,723; Apr. 26; v. 285; p. 785.

Allen, J., & Smith Co., Knoxville, Tenn. Self-rising flour. No. 141,228; Apr. 12; v. 285; p. 384.

Allen, W. D., Manufacturing Company, Chicago, Ill. Stitched canvas belting. No. 141,070; Apr. 12; v. 285; p. 379.

Allied Labor Press Association, Boston, Mass. Books, magazines, circulars. No. 141,071; Apr. 12; v. 285; p. 379.

Alperin, Strauss & Co., New York, N. Y. Dress, negligée, and work shirts, pajamas, collars, &c. No. 141,072; Apr. 12; v. 285; p. 379.

Alt, Harry, New York, N. Y. Serges in the piece. No. 141,306; Apr. 19; v. 285; p. 565.

Alter, Frank W., Chicago, Ill. Timepieces. No. 141,307; Apr. 19; v. 285; p. 565.

Altoona Overall Factory, Altoona, Pa. Overalls and trousers. No. 141,470; Apr. 26; v. 285; p. 777.

Alvo Manufacturing Co., The, Ashland, Ohio. Electric headlights and parts thereof. No. 141,308; Apr. 19; v. 285; p. 565.

Ambrosia Chocolate Cream Co., Chicago, Ill. Candy. Nos. 141,471–2; Apr. 26; v. 285; p. 777.

Ambrosia Chocolate Cream Co., Chicago, Ill. Candy. No. 141,724; Apr. 26; v. 285; p. 785.

American Association of Nurserymen, Princeton, N. J. Quarterly magazine and a weekly paper. No. 141,073; Apr. 12; v. 285; p. 379.

American Beverages Co., Canandaigua, N. Y. Non-alcoholic beverage of malt and hops. No. 141,473; Apr. 26; v. 285; p. 777.

American Chicle Company, New York, N. Y. Chewing-gum. No. 141,309; Apr. 19; v. 255; p. 565.

American Chicle Company, New York, N. Y. Chewing-gum. No. 141,474; Apr. 26; v. 285; p. 777.

American Factors Limited, Honolulu, Hawaii. Sugar-cane knives. No. 141,074; Apr. 12; v. 285; p. 379.

American Importing Co., New York, N. Y. Ticking. No. 141,475; Apr. 26; v. 285; p. 777.

American Manufacturing Company, Evansville, Ind. Spark-plugs. No. 141,476; Apr. 26; v. 285; p. 777.

American Radio and Research Corporation, Medford, Mass. Quenched-spark gaps, radio receiving sets, &c. No. 141,310; Apr. 19; v. 255; p. 565.

American Stores Company, Philadelphia, Pa. Foods. No. 141,477; Apr. 26; v. 285; p. 777.

American Sub-Carburetor Co., Portland, Ind. Vaporizing attachments for internal-combustion engines. No. 141,311; Apr. 19; v. 285; p. 565.

Andersen, A. O., & Co., San Francisco, Calif. Canned fruits. Nos. 141,478–80; Apr. 26; v. 285; p. 777.

Andersen, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Synthetic-indigo paste. No. 141,482; Apr. 26; v. 285; p. 777.

Anderson, Brooke, assignor to Red Top Steel Post Company, Chicago, Ill. Wire fencing. No. 141,481; Apr. 26; v. 285; p. 777.

Anderson Motor Company, Rock Hill, S. C. Motor-cars. No. 141,312; Apr. 19; v. 285; p. 565.

Arcuni & Sichwald, New York, N. Y. Creepers, rompers, children's caps, bathing-suits, and dresses. No. 141,076; Apr. 12; v. 285; p. 379.

Arkadia Medicine Company, New York, N. Y. Medicinal preparation for toothache. No. 141,725; Apr. 26; v. 285; p. 785.

Arlington Manufacturing Company, The, Canton, Ohio. Liquid paints, paste, and powdered paints for cement, &c. No. 141,075; Apr. 12; v. 285; p. 379.

Arlington Manufacturing Company, The, Canton, Ohio. Paints for plastered walls and ceilings. No. 141,726; Apr. 26; v. 285; p. 785.

Ashby Printing Company, Erie, Pa. Paper suitable for use in printing and writing. No. 141,727; Apr. 26; v. 285; p. 785.

Associated Fruit Co., Chicago, Ill. Cantaloups. No. 141,313; Apr. 19; v. 285; p. 565.

Atwater Kent Manufacturing Company, Philadelphia, Pa. Electrical automotive accessories. No. 141,282; Apr. 12; v. 285; p. 387.

Auburn Ignition Mfg. Co., Richmond, Ind. Spark-plugs. No. 141,728; Apr. 26; v. 285; p. 785.

Augusta Ice & Beverage Company, Augusta, Ga. Malt-syrup for food purposes. No. 141,483; Apr. 26; v. 285; p. 777.

Austin, W. E., Machinery Co., Atlanta, Ga. Machinery and tools. No. 141,077; Apr. 12; v. 285; p. 379.

Auto Specialties Company, Inc., Baltimore, Md. Coating for electric insulation. No. 141,314; Apr. 19; v. 285; p. 565.

Available Truck Company, Chicago, Ill. Automobile-trucks. No. 141,729; Apr. 26; v. 285; p. 785.

Bachan, L. G., Watsonville, Calif. Fresh fruits. No. 141,484; Apr. 26; v. 285; p. 777.

Baer & Wilde Company, The, Attleboro, Mass. Cuff-buttons. No. 141,730; Apr. 26; v. 285; p. 785.

Bagshaw, W. H., Co., Lowell, Mass. Phonographic needles. No. 141,078; Apr. 12; v. 285; p. 379.

Bailey Junius H., Macon, Ga. Coffee. No. 141,485; Apr. 26; v. 285; p. 777.

Baker, H. A., Inc., Sumner, Wash. Canned fruits, berries, and vegetables. No. 141,315; Apr. 19; v. 285; p. 565.

Ballon, B. A., & Co. Inc., Providence, R. I. Jewelry. No. 141,283; Apr. 12; v. 285; p. 387.

Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 141,079; Apr. 12; v. 285; p. 379.

Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. Nos. 141,486–7; Apr. 26; v. 285; p. 777.

Barbour Flax Spinning Company, Paterson, N. J. Nos. 141,080–2; Apr. 12; v. 285; p. 379.

Barclay & Co., Wilmington, Del., and New York, N. Y. Talcum powder. No. 141,317; Apr. 19; v. 285; p. 565.

Barclay & Co., Wilmington, Del., and New York, N. Y. Toilet preparations. No. 141,316; Apr. 19; v. 285; p. 565.

Bargman, Theodore, Detroit, Mich. Clock and watch dials. No. 141,083; Apr. 12; v. 285; p. 379.

Bates, F. J., Asheville, N. C. Solder. No. 141,731; Apr. 26; v. 285; p. 786.

Bay State Corset Company, Springfield, Mass. Corsets. No. 141,732; Apr. 26; v. 285; p. 786.

Bayside Canning Co., Alviso, Calif. Canned fruits and vegetables. Nos. 141,488–9; Apr. 26; v. 285; p. 777.

Beacon Falls Rubber Shoe Co., The, Beacon Falls, Conn. Canvas rubber-soled shoes. No. 141,733; Apr. 26; v. 285; p. 786.

Beaute-Viva Co., Bandana, Ky. Cream powder, perfumes, face-powder, &c. No. 141,490; Apr. 26; v. 285; p. 777.

Bee Bee Confection Company, The, Dayton, Ohio. Non-alcoholic non-cereal beverage. No. 141,318; Apr. 19; v. 285; p. 565.

Bell, Adrian, Baltimore, Md. Soaps. No. 141,319; Apr. 19; v. 285; p. 565.

Belle Mead Sweetsmakers, The, Trenton, N. J. Candy. No. 141,491; Apr. 26; v. 285; p. 777.

Bestyet Razor Co., Inc., Tampa, Fla. Safety-razors. No. 141,320; Apr. 19; v. 285; p. 565.

Binkley Company, The, Oklahoma, Okla. Automobile-radiators and structural radiator parts. No. 141,084; Apr. 12; v. 285; p. 379.

Bishop Company, The, North Attleboro, Mass. Eyeglasses and spectacles and parts thereof. No. 141,321; Apr. 19; v. 285; p. 565.

Black & Decker Manufacturing Co., The, Baltimore, Md. Electrical tools. No. 141,284; Apr. 12; v. 285; p. 387.

Blackman Talking Machine Co., Inc., New York, N. Y. Talking-machine needles. No. 141,492; Apr. 26; v. 285; p. 777.

Blair, J. C., Company, Huntingdon, Pa. Paper and paper tablets, envelops, blank books. No. 141,085–7; Apr. 12; v. 285; p. 379.

Blakeslee, Talbert W., Erie, Pa. Liniment used externally for the relief of pain. No. 141,322; Apr. 19; v. 285; p. 565.

Blickman, Sophia, New York, N. Y. Aluminum cooking utensils. No. 141,323; Apr. 19; v. 285; p. 565.

Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bed-ticking. No. 141,329; Apr. 19; v. 285; p. 565.

Blumauer-Frank Drug Company, Portland, Oreg. Olive-oil. No. 141,493; Apr. 26; v. 285; p. 777.

Boetger, Max R., Davenport, Iowa. Whole-wheat and Graham flours, ryemeal, &c. No. 141,494; Apr. 26; v. 285; p. 777.

Bon I. Look Stores Company, The, Denver, Colo. Foods. No. 141,495; Apr. 26; v. 285; p. 778.

Boott Mills, Lowell, Mass. Toweling. No. 141,496; Apr. 26; v. 285; p. 778.

Boston Varnish Company, Everett, Mass. Enamel for coating wood or metal. No. 141,324; Apr. 19; v. 285; p. 565.

Boyd-Haynes Corporation, Detroit, Mich. Toilet preparations. No. 141,088; Apr. 12; v. 285; p. 379.

Brame Drug Company, Inc., Northwilkesboro, N. C. Medicinal preparations. No. 141,734; Apr. 26; v. 285; p. 786.

Brangesta Company, The, Sacramento, Calif. Wheat-bran cereal. No. 141,497; Apr. 26; v. 285; p. 778.

Bray, R. A., Big Timber, Mont. Honey. No. 141,325; Apr. 19; v. 285; p. 565.

Briacea Drug Co., Kansas City, Mo. General tonic. No. 141,326; Apr. 19; v. 285; p. 565.

Brillo Manufacturing Company, New York, N. Y. Soaps, Cleaning, scouring, and polishing wads, pads, rolls, &c. No. 141,498; Apr. 26; v. 285; p. 778.

Brillo Manufacturing Company, New York, N. Y. Cleaning, scouring, and polishing wads, pads, rolls, and cloths. No. 141,499; Apr. 26; v. 285; p. 778.

Broadway Cycle Co, Inc., Philadelphia, Pa. Bicycles, tricycles, &c., and parts thereof, not including tires. No. 141,327; Apr. 19; v. 285; p. 565.

Brooks, J. B., & Company, Limited, Birmingham, England. Cycle-saddles, (leather.) No. 141,500; Apr. 26; v. 285; p. 778.

Brown Durrell Co., Boston, Mass. Blouses and overalls. No. 141,328; Apr. 19; v. 285; p. 565.

Buffalo Forge Company, Buffalo, N. Y. Metal-working machinery. No. 141,285; Apr. 12; v. 285; p. 387.

Bulova, Adolph, New York, N. Y. Watchcases. No. 141,286; Apr. 12; v. 285; p. 387.

Burtex Company Inc., New York, N. Y. Nightgowns, envelop-chemise, petticoats, bloomers, &c. No. 141,330; Apr. 19; v. 285; p. 565.

Bussmann Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 141,501; Apr. 26; v. 285; p. 778.

C. C. C. Fire Hose Co., Canton, Mass. Rubber tires, tubes, inner liners, and blow-out patches. No. 141,511; Apr. 26; v. 285; p. 778.

Cabitt, Harry, Boston, Mass. Medicinal oil. No. 141,502; Apr. 26; v. 285; p. 778.

Cairo Food Products Company, Cairo, Ill. Non-alcoholic beverages. No. 141,503; Apr. 26; v. 285; p. 778.

California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 141,089; Apr. 12; v. 285; p. 379.

California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. Nos. 141,504–6; Apr. 26; v. 285; p. 778.

California Packing Corporation, San Francisco, Calif. Foods. No. 141,507; Apr. 26; v. 285; p. 778.

Cameron, A. S., Steam Pump Works, Jersey City, N. J., and New York, N. Y. Steam-pumps. No. 141,331; Apr. 19; v. 285; p. 565.

Campbell Electric Co., Lynn, Mass. X-Ray tables and parts thereof. No. 141,735; Apr. 26; v. 285; p. 786.

Campbell, Orville D., Warren, Ark. Colic and distemper remedies. No. 141,090; Apr. 12; v. 285; p. 379.

Canadian Club of New York, New York, N. Y. Monthly magazine. No. 141,091; Apr. 12; v. 285; p. 379.

Candy Company of America, Washington, D. C. Candies. No. 141,508; Apr. 26; v. 285; p. 778.

Cantrell-Miller Manufacturing Company Incorporated, San Francisco, Calif. Automobile tools and accessories. No. 141,332; Apr. 19; v. 285; p. 565.

Cape County Milling Company, Jackson, Mo. Wheat-flour. No. 141,509; Apr. 26; v. 285; p. 778.

Carafiol-Silverman Garment Co., St. Louis, Mo. Ladies', misses', and children's middies, dresses, and suits, &c. No. 141,343; Apr. 19; v. 285; p. 566.

Carbon Products Company, The, Lancaster, Ohio. Dry batteries. No. 141,510; Apr. 26; v. 285; p. 778.

Carey, William J., Pendleton, Oreg. Soap. No. 141,333; Apr. 19; v. 285; p. 566.

Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 141,092; Apr. 12; v. 285; p. 380.

Casein Manufacturing Co., The, New York, N. Y. Casein glue. No. 141,334; Apr. 19; v. 285; p. 566.

Centennial Mill Company, Seattle, Wash. Wheat-flour. No. 141,512; Apr. 26; v. 285; p. 778.

Chamberlain, Charles P., Los Angeles, Calif. Electric-arc lamps. No. 141,513; Apr. 26; v. 285; p. 778.

Chamberlain-Haber Chemical Company, Cleveland, Ohio. Insect-destroying composition. No. 141,736; Apr. 26; v. 285; p. 786.

Champion Ignition Company, Flint, Mich. Spark-plugs and parts thereof. No. 141,093; Apr. 12; v. 285; p. 380.

Cheney Brothers, South Manchester, Conn. Silk or part silk woven, knitted, netted, textile, and pile fabrics in the piece. No. 141,514; Apr. 26; v. 285; p. 778.

Chesnutt, James M., Clinton, N. C. Medicine for headache. No. 141,335; Apr. 19; v. 285; p. 566.

Chicago Insulated Wire & Mfg. Co., Sycamore, Ill. Electrical wires and cables. No. 141,515; Apr. 26; v. 285; p. 778.

Chicago, Pneumatic Tool Company, Chicago, Ill. Lubricating-oil. No. 141,094; Apr. 12; v. 285; p. 380.

Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tools and compressed-air machinery. No. 141,737; Apr. 26; v. 285; p. 786.

Children's Vehicle Corporation, East Templeton, Mass. Baby-carriages and similar vehicles. No. 141,336; Apr. 19; v. 285; p. 566.

Chipley, John D., Moorefield, W. Va. Laxative pills. No. 141,516; Apr. 26; v. 285; p. 778.

Chubbuck, William, Rockaway Beach, N. Y. Medicinal preparations. No. 141,517; Apr. 26; v. 285; p. 778.

City Ice Delivery Company, Cleveland, Ohio. Ginger-ale. No. 141,096; Apr. 12; v. 285; p. 380.

Claremont Marl Products Company Inc., Claremont, Va. Marl lime for acid-soil treatment. No. 141,518; Apr. 26; v. 285; p. 778.

Clark Fiber Products Corporation, Hartsdale, N. Y. Molded fiber in sheet form. No. 141,337; Apr. 19; v. 285; p. 566.

Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Pneumatic tools and compressed-air machinery. No. 141,738; Apr. 26; v. 285; p. 786.

Cleveland Tractor Company, The, Euclid, Ohio. Periodical publications which are now published monthly. No. 141,095; Apr. 12; v. 285; p. 380.

Cleves, William B., Washington, D. C. Laxative medicine. No. 141,098; Apr. 12; v. 285; p. 380.

Cloverland Apiaries Co., Wausau, Wis. Honey. No. 141,519; Apr. 26; v. 285; p. 778.

Cohan, Emmanuel M., New York, N. Y. Waists and dresses. No. 141,338; Apr. 19; v. 285; p. 566.

Cohan, Emmanuel M., New York, N. Y. Waists and dresses. No. 141,351; Apr. 19; v. 285; p. 566.

Cohn & Rosenberger, Inc., New York, N. Y. Articles of jewelry. No. 141,099; Apr. 12; v. 285; p. 380.

Cole & Dunas Music Co., Chicago, Ill. Phonographs. No. 141,520; Apr. 26; v. 285; p. 778.

Coleman & Company, Ltd., Norwich, England. Medicinal tonics. No. 141,521; Apr. 26; v. 285; p. 778.

Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 141,339; Apr. 19; v. 285; p. 566.

Collins Flour Mills, Pendleton, Oreg. Wheat-flour. No. 141,522; Apr. 26; v. 285; p. 778.

Colorado Packing Corporation, Canon City, Colo. Canned fruits and tomatoes. No. 141,340; Apr. 19; v. 285; p. 566.

Columbia Carbon Company, The, Dayton, Ohio. Carbon-sheets. No. 141,739; Apr. 26; v. 285; p. 786.

Columbus McKinnon Chain Company, The, Columbus, Ohio. Tire-chains. No. 141,523; Apr. 26; v. 285; p. 778.

Consolidated Tool Works, Inc., New York, N. Y. Calipers and dividers, combination-squares and rules for measuring purposes, measuring-tapes. No. 141,341; Apr. 19; v. 285; p. 566.

Consumers Brewing Company, Philadelphia, Pa. Cereal beverages. No. 141,345; Apr. 19; v. 285; p. 566.

Cooper Coate & Casey Dry Goods Co., Los Angeles, Calif. Boys' wash-suits, children's dresses, &c. No. 141,100; Apr. 12; v. 285; p. 380.

Cooper Coate & Casey Dry Goods Co., Los Angeles, Calif. Children's wash, silk, and wool dresses. No. 141,524; Apr. 26; v. 285; p. 778.

Co-Operative Drug Company, Inc., Philadelphia, Pa. Shaving-cream and hard-water soap. No. 141,101; Apr. 12; v. 285; p. 380.

Corby Company, The, Langdon, D. C., assignor to The Fleischmann Company. Cereal extracts for use in the manufacture of bread. No. 141,525; Apr. 26; v. 285; p. 778.

Corkran, Hill and Company, Inc., Baltimore, Md. Oleomargarin and lard. No. 141,102; Apr. 12; v. 285; p. 380.

Corning Glass Works, Corning, N. Y. Glass. No. 141,342; Apr. 19; v. 285; p. 566.

Cotter, R. E., Company, San Francisco, Calif. Canned fruits, vegetables, and fish. No. 141,103; Apr. 12; v. 285; p. 380.

Crane Company, Chicago, Ill. Steam-blower valves. No. 141,740; Apr. 26; v. 285; p. 786.

Crème Coco Company, The, Brooklyn, N. Y. Cosmetic cream. No. 141,344; Apr. 19; v. 285; p. 566.

Crescent Talking Machine Co., New York, N. Y. Phonographs and records. No. 141,104; Apr. 12; v. 285; p. 380.

Crocker, Josiah H., Cambridge, Mass. Stove-polishes. No. 141,798; Apr. 26; v. 285; p. 792.

Crocker-Wheeler Company, Ampere, N. J. Motors and generators and starters. Nos. 141,526–7; Apr. 26; v. 285; pp. 778–9.

Crown, Inc., New York, N. Y. Dresses. No. 141,528; Apr. 26; v. 285; p. 779.

Cumings Brothers, Flint, Mich. Automobile-brake lining. No. 141,105; Apr. 12; v. 285; p. 380.

Cumings Brothers, Flint, Mich. Antileak compound. No. 141,106; Apr. 12; v. 285; p. 380.

Damon, William H., Chicago, Ill. Liquid polish for furniture and automobile-bodies. No. 141,529; Apr. 26; v. 285; p. 779.

Danielson Tool Company, Wausau, Wis. Axle-stands, babbitting outfits, burning-in machines, &c. No. 141,530; Apr. 26; v. 285; p. 779.

Davies, William J., Los Angeles, Calif. Laxative tonic and nervine. No. 141,346; Apr. 19; v. 285; p. 566.

Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux for welding sheet-aluminum. No. 141,741; Apr. 26; v. 285; p. 787.
Davis, H. E., Co., Freeport, Me. Leather shoes. No. 141,531; Apr. 26; v. 285; p. 779.
Dennos Food Company, Seattle, Wash., and Chicago, Ill. Malted non-alcoholic beverages. No. 141,107; Apr. 12; v. 285; p. 380.
Deputy, E. R., Company Inc., Lincoln, Nebr. Overalls. No. 141,108; Apr. 12; v. 285; p. 380.
Dermatological Research Laboratories, Philadelphia, Pa. Pharmaceutical compound. No. 141,109; Apr. 12; v. 285; p. 380.
Dexter Yarn Company, Pawtucket, R. I. Yarns and threads. Nos. 141,110–12; Apr. 12; v. 285; p. 380.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Electrical insulating material. No. 141,532; Apr. 26; v. 285; p. 779.
Dick, Simon, Paris, France. Hand-operated rotary fans. No. 141,533; Apr. 26; v. 285; p. 779.
Dickinson, Don M., Jr., Detroit, Mich. Chewing-gum. No. 141,347; Apr. 19; v. 285; p. 566.
Dickinson, Don M., Jr., Detroit, Mich. Chewing-gum. No. 141,534; Apr. 26; v. 285; p. 779.
Dixie Mills, Adams, Tenn. Feeder for hogs. No. 141,535; Apr. 26; v. 285; p. 779.
Dogen, Willis M., Atlanta, N. Y. Preparation used in treatment of excessive perspiration of the feet. No. 141,113; Apr. 12; v. 285; p. 380.
Doughboy Tractors, The, Dallas, Tex. Tractors. No. 141,254; Apr. 12; v. 285; p. 385.
Dr. O. W. Green and Dr. L. O. Green, Chicago, Ill. Antiseptic ointment. No. 141,753; Apr. 26; v. 285; p. 788.
Drevet Mfg. Co., The, New York, N. Y. Peroxid of hydrogen. No. 141,348; Apr. 19; v. 285; p. 566.
Druggist Sundries Company Limited, Vancouver, British Columbia, Canada, assignor to Lash's Bitters Company, San Francisco, Calif. Beverages. No. 141,114; Apr. 12; v. 285; p. 380.
Dunn, John, Son & Co., New York, N. Y. High-strain galvanized wire. Nos. 141,536–7; Apr. 26; v. 285; p. 779.
Dunsmore, Grace M., New York, N. Y. Paper facial cloth and paper toweling. No. 141,115; Apr. 12; v. 285; p. 380.
Eagle Pencil Company, New York, N. Y. Lead-pencils. Nos. 141,538–9; Apr. 26; v. 285; p. 779.
Earley, Alice W., Los Angeles, Calif. Face-cream. No. 141,287; Apr. 12; v. 285; p. 387.
Early Foundry Co., Dickson City, Pa. Coal and coal and gas combination ranges, heating-stoves. No. 141,742; Apr. 26; v. 285; p. 787.
Eclipse Machine Company, Elmira Heights, N. Y. Drives or transmission mechanism for starters for internal-combustion engines. No. 141,349; Apr. 19; v. 285; p. 566.
Economy Engineering Company, Chicago, Ill. Machines for transporting, raising, and lowering boxes, barrels, &c. No. 141,116; Apr. 12; v. 285. p. 380.
Edington, Jacob F., Los Angeles, Calif. Soft soap. No. 141,117; Apr. 12; v. 285; p. 380.
Edison-Cromer Pen Co., Birmingham, Ala. Fountain-pens. No. 141,118; Apr. 12; v. 285; p. 380.
Edwards Food Products Company, Chicago, Ill. Baked beans. No. 141,350; Apr. 19; v. 285; p. 566.
Electric Controller Co., Indianapolis, Ind. Electric incubators. No. 141,540; Apr. 26; v. 285; p. 779.
Electrolyte Storage Battery Co., Philadelphia, Pa. Storage, lighting, and starting batteries. No. 141,288; Apr. 12; v. 285; p. 387.
Elovitz, Nathan, Chicago, Ill. Salve for massaging paralyzed limbs. No. 141,541; Apr. 26; v. 285; p. 779.
Emerson, Edwin L., Boston, Mass. Electric heaters adapted for heating hand-tools. No. 141,542; Apr. 26; v. 285; p. 779.
Empire Carpet Co., New York, N. Y. Rugs made of wool and cotton. Nos. 141,289–90; Apr. 12; v. 285; p. 388.
Ericsson Manufacturing Company, Tonawanda, N. Y. Magnetos. No. 141,743; Apr. 26; v. 285; p. 787.
Erie Calculator Co., Erie, Pa. Adding-machines. No. 141,543; Apr. 26; v. 285; p. 779.
Ettenson, Benjamin, Leavenworth, Kans. White-shoe and straw-hat cleaner. No. 141,352; Apr. 19; v. 285; p. 566.
Everitt, C. M., & J. P. Todd, Inc., Seattle, Wash. Canned fish. No. 141,544; Apr. 26; v. 285; p. 779.
Excelsior Shoe Company, The, Portsmouth, Ohio. Shoes and boots. No. 141,545; Apr. 26; v. 285; p. 779.
Farmers Veterinary Medical Company, Warren, Pa. Veterinary medicines. No. 141,353; Apr. 19; v. 285; p. 566.
Favorite Knitting Company, Milwaukee, Wis. Clothing. No. 141,119; Apr. 12; v. 285; p. 380.
Federal Underwear Co., New York, N. Y. Infants' bathrobes. No. 141,354; Apr. 19; v. 285; p. 566.
Feldenheimer, William, London, England. Purified colloidal clay. No. 141,120; Apr. 12; v. 285; p. 380.
Fine Cotton Spinners and Doublers' Association, Limited, The, Manchester, England. Cotton yarns. No. 141,546; Apr. 26; v. 285; p. 779.
Fineburg, Emanuel, New York, N. Y. Hair-nets. No. 141,547; Apr. 26; v. 285; p. 779.
Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 141,548; Apr. 26; v. 285; p. 779.
Fitzpatrick Bros., Chicago, Ill. Soap. No. 141,121; Apr. 12; v. 285; p. 380.
Fleischmann Company, The. (See Corby Company, The, assignors.)
Flexible Steel Lacing Company, Chicago, Ill. Hinged belt-fasteners. No. 141,744; Apr. 26; v. 285; p. 787.
Flexotile Floor Company, Rockford, Ill. Magnesite composition for making plastic building materials. No. 141,549; Apr. 26; v. 285; p. 779.
Florence Manufacturing Company, Northampton, Mass. Lather-brushes. No. 141,745; Apr. 26; v. 285; p. 787.
Foote & Jenks, Jackson, Mich. Extracts for food-flavoring purposes. No. 141,550; Apr. 26; v. 285; p. 779.
Forged Steel Products Co. of N. J., Newark, N. J. Pliers. Nos. 141,355–6; Apr. 19; v. 285; p. 566.
Fowler Grape Growers Association, Fowler, Calif. Fresh fruits. No. 141,551; Apr. 26; v. 285; p. 779.
Frank, B., & Sons, New York, N. Y. Sole-leather. Nos. 141,357–8; Apr. 19; v. 285; p. 566.
Frank Tea & Spice Co., The, Cincinnati, Ohio. Insect-powder. No. 141,553; Apr. 26; v. 285; p. 779.
Franklin Tractor Company, The, Middletown, Ohio. Tractors. No. 141,552; Apr. 26; v. 285; p. 779.
Freadrich, Joseph J., St. Louis, Mo. Leather belting. No. 141,746; Apr. 26; v. 285; p. 787.
Freeman, Lottie E., Boston, Mass. Child's garment. No. 141,359; Apr. 19; v. 285; p. 566.
Frères, Rueff, La Chaux-de-Fonds, Switzerland. Watches. No. 141,123; Apr. 12; v. 285; p. 380.
Fritz, George H., & Sons, Newark, N. J. Candy. No. 141,554; Apr. 26; v. 285; p. 779.
Fuld, Traube & Co., Inc., New York, N. Y. Silk hair-nets. No. 141,555; Apr. 26; v. 285; p. 779.
Fundler, Louis, New York, N. Y. Soaps. No. 141,122; Apr. 12; v. 285; p. 380.
Gandara y Haz, Vigo, Spain. Preserved fish. No. 141,136; Apr. 12; v. 285; p. 381.
Gauss, Henry C., Washington, D. C. Index-cards. No. 141,124; Apr. 12; v. 285; p. 380.
Geier, P. A., Company, The, Cleveland, Ohio. Electrical apparatus. No. 141,556; Apr. 26; v. 285; p. 779.
General Chemical Company, New York, N. Y. Concrete and cement hardeners. No. 141,125; Apr. 12; v. 285; p. 381.
General Chemical Company, New York, N. Y. Concrete and cement hardener. No. 141,360; Apr. 19; v. 285; p. 566.
General Motors Corporation, Detroit, Mich. Motor-driven vehicles. No. 141,126; Apr. 12; v. 285; p. 381.
General Naval Stores Co., New York, N. Y. Pine-oil. No. 141,747; Apr. 26; v. 285; p. 787.
General Naval Stores Co., New York, N. Y. Steam-distilled pine-oil. No. 141,748; Apr. 26; v. 285; p. 787.
General Naval Stores Co., New York, N. Y. Pine-tar oil. No. 141,749; Apr. 26; v. 285; p. 787.
General Naval Stores Co., New York, N. Y. Hard-wood oil. No. 141,750; Apr. 26; v. 285; p. 787.
General Naval Stores Co., New York, N. Y. Flotation-oil used in the flotation process of mineral separation. No. 141,751; Apr. 26; v. 285; p. 787.
General Oil Company, Houston, Tex. Crude petroleum and its refined products. No. 141,557; Apr. 26; v. 285; p. 779.
Genuine Haarlem Oil Mfg. Co., New York, N. Y. Haarlem oil for kidney, &c., troubles. No. 141,054; Apr. 5; v. 285; p. 187.
Gilman, A. S., Printing Company, The, Cleveland, Ohio. Blank forms. No. 141,127; Apr. 12; v. 285; p. 381.
Ginsburg, Nat, & Bro., New York, N. Y. Woolens, worsteds, cheviots, &c., sold in the piece. No. 141,560; Apr. 26; v. 285; p. 780.
Glemby, S., Inc., New York, N. Y. Hair-nets. No. 141,558; Apr. 26; v. 285; p. 779.
Goldman-Kolber Co. Inc., The, New York, N. Y. Bracelets, brooches, and finger-rings. No. 141,561; Apr. 26; v. 285; p. 780.
Goldman, Sigmund L., Chicago, Ill. Ginger-ale. No. 141,559; Apr. 26; v. 285; p. 779.
Goodman Manufacturing Company, Chicago, Ill. Coal-cutting machines and coal and ore conveying machinery. No. 141,752; Apr. 26; v. 285; p. 788.
Goodrich, B. F., Company, The, New York, N. Y. Waterproof boots having leather tops and knit wool gaiters. No. 141,562; Apr. 26; v. 285; p. 780.
Gordonville Milling Company, Gordonville, Mo. Wheat-flour. No. 141,361; Apr. 19; v. 285; p. 566.
Gordonville Milling Company, Gordonville, Mo. Wheat-flour. No. 141,755; Apr. 26; v. 285; p. 788.
Gosselin Trading Corporation, (now by change of name E. L. Quarles Corporation), New York, N. Y. Dental powders, massage and dental creams, perfumes. No. 141,137; Apr. 12; v. 285; p. 381.
Goswado Manufacturing Company, Alameda, Calif. Hats and caps. No. 141,362; Apr. 19; v. 285; p. 566.
Gottlieb Bauernschmidt Straus Brewing Company, Baltimore, Md. Cereal malt beverages. No. 141,128; Apr. 12; v. 285; p. 381.
Graham-Bumgarner Company, Parkersburg, W. Va. Shoes made wholly or in part of leather. Nos. 141,363–4; Apr. 19; v. 285; p. 566.
Gramercy Chocolate Company, Inc., New York, N. Y. Candy. No. 141,563; Apr. 26; v. 285; p. 780.
Gramm-Bernstein Motor Truck Co., The, Lima, Ohio. Automobiles. No. 141,129; Apr. 12; v. 285; p. 381.

Graziadei, Leonard, Toronto, Ontario, Canada. Shoe-polishes. No. 141,365; Apr. 19; v. 285; p. 566.
Great Western Packing Co., San Francisco, Calif. Canned fish. No. 141,564; Apr. 26; v. 285; p. 780.
Grecian Importing Trading Co., Inc., New York, N. Y. Olive-oil. No. 141,565; Apr. 26; v. 285; p. 780.
Green, Edward, Brooklyn, N. Y. Soap dyes. No. 141,366; Apr. 19; v. 285; p. 566.
Green Mountain Packing Company, Portland, Me. Canned vegetables and fruits. No. 141,367; Apr. 19; v. 285; p. 567.
Grennan Cake Corporation, Chicago, Ill.; Cleveland, Ohio; Detroit, Mich., and St. Paul and Minneapolis, Minn. Cakes. No. 141,130; Apr. 12; v. 285; p. 381.
Grennan Cake Corporation, Cleveland Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn., and Chicago, Ill. Cakes, cookies, and fried cakes. No. 141,566; Apr. 26; v. 285; p. 780.
Griffith Alverson Co., Mason City, Iowa. Medicinal preparation. No. 141,064; Apr. 5; v. 285; p. 187.
Griswold Seed & Nursery Co., Lincoln, Nebr. Flower, vegetable, and field seeds. No. 141,567; Apr. 26; v. 285; p. 780.
Gross, Angus R., Baltimore, Md. Electrical lights for automobiles. No. 141,368; Apr. 19; v. 285; p. 567.
Grossman, Elenore, New York, N. Y. Ladies' wearing-apparel. No. 141,754; Apr. 26; v. 285; p. 788.
Grundy, Alfred S. W., San Francisco, Calif. Clothing. No. 141,131; Apr. 12; v. 285; p. 381.
Guggenhime & Company, San Francisco, Calif. Dried fruits. No. 141,132; Apr. 12; v. 285; p. 381.
Gutmann and Company, Chicago, Ill. Oil preparation for treating leather. No. 141,369; Apr. 19; v. 285; p. 567.
Guyer & Calkins Co., Freeport, Ill. Canned fruits, vegetables, and fish, coffee, and spices. No. 141,568; Apr. 26; v. 285; p. 780.
Habicht and Company, New York, N. Y. Shelled or unshelled nuts in their natural state and dried fruits. No. 141,370; Apr. 19; v. 285; p. 567.
Habicht and Company, New York, N. Y. Shelled and unshelled nuts. No. 141,569; Apr. 26; v. 285; p. 780.
Half Moon Fruit & Produce Co., San Francisco, Calif. Cantaloups. No. 141,570; Apr. 26; v. 285; p. 780.
Hall, Hartwell & Co., Troy, N. Y. Dress, negligée, and work shirts and collars. Nos. 141,371–2; Apr. 19; v. 285; p. 567.
Hall, Nathaniel C., Old Lyme, Conn. Candy. No. 141,571; Apr. 26; v. 285; p. 780.
Hand, Peter, Company, Chicago, Ill. Beverages. No. 141,055; Apr. 5; v. 285; p. 187.
Hardie Bros. Co. Inc., Pittsburgh, Pa. Hard candies. No. 141,134; Apr. 12; v. 285; p. 381.
Hardy, F. A., & Company, Chicago, Ill. Ophthalmic lenses. No. 141,133; Apr. 12; v. 285; p. 381.
Harley-Davidson Motor Co., Milwaukee, Wis. Electric generators. No. 141,291; Apr. 12; v. 285; p. 388.
Harley-Davidson Motor Co., Milwaukee, Wis. Lubricating-oil, chain and non-fluid lubricant. No. 141,465; Apr. 19; v. 285; p. 570.
Harley-Davidson Motor Co., Milwaukee, Wis. Air-drying and striping enamels, liquid shellac, &c. No. 141,756; Apr. 26; v. 285; p. 788.
Harley-Davidson Motor Co., Milwaukee, Wis. Clothing. No. 141,757; Apr. 26; v. 285; p. 788.
Harper, A., Son, & Bean Limited, Dudley, England. Internal-combustion engines for use in propelling motor-cars, motorcycles, &c. No. 141,373; Apr. 19; v. 285; p. 567.
Harris, Emerson P., Montclair, N. J. Books and pamphlets published from time to time. No. 141,135; Apr. 12; v. 285; p. 381.
Harris, Moses H., New York, N. Y. Ophthalmic lenses and blanks. No. 141,374; Apr. 19; v. 285; p. 567.
Hays, S. G., Tulsa, Okla. Hair-tonic, dandruff-remover, toilet water. No. 141,375; Apr. 19; v. 285; p. 567.
Haywood, T. Holt, New York, N. Y. Cotton goods in the piece. No. 141,574; Apr. 26; v. 285; p. 780.
Healy, Bernard P., Sea Park, Skerries, Ireland. Perfumery, hair-tonics, lotions, &c. No. 141,138; Apr. 12; v. 285; p. 381.
Heller, B., & Co., Chicago, Ill. Ant-destroyer. No. 141,292; Apr. 12; v. 285; p. 388.
Henkel-Clauss Co., The, Fremont, Ohio. Hand implements for cutting, carving, trimming, &c. No. 141,758; Apr. 26; v. 285; p. 788.
Hessig-Ellis Drug Co., Memphis, Tenn. Medicines and pharmaceutical preparations. No. 141,376; Apr. 19; v. 285; p. 567.
Hewitt, C. B., & Brothers, Inc., New York, N. Y. Binders' paper and board. No. 141,377; Apr. 19; v. 285; p. 567.
Hewitt, C. B., & Brothers, Inc., New York, N. Y. Papers. No. 141,378; Apr. 19; v. 285; p. 567.
Hewitt, C. B., & Brothers, Inc., New York, N. Y. Wrapping and binders' paper and binders' board. Nos. 141,379–80; Apr. 19; v. 285; p. 567.
Hewitt, C. B., & Brothers, Inc., New York, N. Y. Binders' board. No. 141,381; Apr. 19; v. 285; p. 567.
Hillman Drug Co., Mart, Tex. Medicine for treatment of influenza, colds, and grippe. No. 141,572; Apr. 26; v. 285; p. 780.
Hilton, Herbert, New Bedford, Mass. Automobile and furniture polish. No. 141,139; Apr. 12; v. 285; p. 381.
Hinck & Muller, New York, N. Y. Cotton piece goods. No. 141,140; Apr. 12; v. 285; p. 381.
Hinck & Muller, New York, N. Y. Cotton piece goods. No. 141,382; Apr. 19; v. 285; p. 567.
Hipwell Manufacturing Co., Pittsburgh, Pa. Flashlights and dry batteries. No. 141,383; Apr. 19; v. 285; p. 567.
Hirsch, Walter J., Company, Chicago, Ill. Peanut-butter, salted peanuts. No. 141,384; Apr. 19; v. 285; p. 567.
Hockaday, Frank W., Wichita, Kans. Wooden signs used as road-markers. No. 141,385; Apr. 19; v. 285; p. 567.
Hollins, William, & Co. Limited, Mansfield and London, England. Pure-silk piece goods. No. 141,141; Apr. 12; v. 285; p. 381.
Hollow Building Tile Association, The, Chicago, Ill. Building-tile made of clay products. No. 141,573; Apr. 26; v. 285; p. 780.
Holyoke Machine Co., Holyoke, Mass. Turbine water-wheels. No. 141,386; Apr. 19; v. 285; p. 567.
Hood River Canning Company, Hood River, Oreg. Canned fruits. No. 141,387; Apr. 19; v. 285; p. 567.
Hooton Chocolate Company, Newark, N. J. Sweet chocolate, nut-bars, milk-chocolates, &c. No. 141,575; Apr. 26; v. 285; p. 780.
Howard, John A., New Brighton, N. Y. Coffee and tea pots. No. 141,142; Apr. 12; v. 285; p. 381.
Hunt, C. Howard, Pen Company, Camden, N. J. Metallic pen-points. No. 141,759; Apr. 26; v. 285; p. 788.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Cocoa. Nos. 141,760–1; Apr. 26; v. 285; p. 788.
Illinois Razor Strop Company, Chicago, Ill. Razor-strops. Nos. 141,143–4; Apr. 12; v. 285; p. 381.
Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, &c. No. 141,145; Apr. 12; v. 285; p. 381.
Interstate Chemical Company, Jersey City, N. J. Insecticides and germicides. Nos. 141,577–8; Apr. 26; v. 285; p. 780.
International Paper Company, New York, N. Y. Sulfite bond-paper. No. 141,146; Apr. 12; v. 285; p. 381.
Interstate Tool and Mfg. Co., St. Louis, Mo. Automobile-whistles, adapters for attaching whistles to automobile-cylinders. No. 141,576; Apr. 26; v. 285; p. 780.
Ivy Corset Company, Worcester, Mass. Corsets. No. 141,762; Apr. 26; v. 285; p. 788.
Jackson, Gabrielle E., New York, N. Y. Ladies', misses', and children's dresses. No. 141,147; Apr. 12; v. 285; p. 381.
Jackson, L. N., & Company, Inc., San Francisco, Calif. Canned fish. No. 141,149; Apr. 12; v. 285; p. 381.
Jackson & Stamper, Middletown, Ohio. Preparation for the treatment of rheumatism. No. 141,441; Apr. 19; v. 285; p. 569.
Jacobson, Joseph E., Jacksonville, Fla. Analgesic and stimulating antiseptic ointment for inflammatory congestion. No. 141,579; Apr. 26; v. 285; p. 780.
Janiece, Katherine, Los Angeles, Calif. Chocolate-coated candies. No. 141,580; Apr. 26; v. 285; p. 780.
Jett & Wood Mercantile Company, The, Wichita, Kans. Canned vegetables and fruits, coffee, spices. No. 141,581; Apr. 26; v. 285; p. 780.
Jewett & Sowers Oil Co., The, Chicago, Ill. Boiler compound, disinfectant, and antifreeze solution. No. 141,582; Apr. 26; v. 289; p. 780.
Jordan Marsh Company, Boston, Mass. Clothing. No. 141,148; Apr. 12; v. 285; p. 381.
Jordan Marsh Company, Boston, Mass. Leather gloves. No. 141,150; Apr. 12; v. 285; p. 381.
Joy Food Products Co., Kansas City, Mo. Breakfast food. No. 141,394; Apr. 19; v. 285; p. 567.
Justrite Manufacturing Company, Chicago, Ill. Oil-cups and oil-feeding devices. No. 141,763; Apr. 26; v. 285; p. 789.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Hams, bacon, shoulders, &c. No. 141,583; Apr. 26; v. 285; p. 780.
Katz, Charles S., St. Louis, Mo. Hats for men, women, and children. No. 141,395; Apr. 19; v. 285; p. 567.
Kellogg Switchboard and Supply Company, Chicago, Ill. Telephones, switchboards. No. 141,151; Apr. 12; v. 285; p. 381.
Kerr, Albert E., San Francisco, Calif. Furniture-polish. No. 141,152; Apr. 12; v. 285; p. 381.
Key Boiler Equipment Company, St. Louis, Mo. Sealing paste. No. 141,584; Apr. 26; v. 285; p. 780.
Kirkendall, F. P., & Co., Omaha, Nebr. Leather shoes and boots. No. 141,396; Apr. 19; v. 285; p. 567.
Kirkland, Elmer E., Jr., Binghamton, N. Y. Cream for freckles. No. 141,585; Apr. 26; v. 285; p. 780.
Kirshenbaum, Louis S., New York, N. Y. Youths' shirts and boys' blouses. No. 141,397; Apr. 19; v. 285; p. 567.
Klatscher & Lorenz, Inc., New York, N. Y. Bottle-wire. No. 141,398; Apr. 19; v. 285; p. 567.
Klein Manufacturing Company, The, Cleveland, Ohio. Paints. No. 141,153; Apr. 12; v. 285; p. 381.
Klimax Overall Company, Winder, Ga. Coats, pants, and overalls. No. 141,586; Apr. 26; v. 285; p. 780.
Knight Light & Soda Fountain Co., Chicago, Ill. Soda-fountains and parts thereof. No. 141,155; Apr. 12; v. 285; p. 381.
Knott, William C., Shreveport, La. Pneumatic-tire patch. No. 141,154; Apr. 12; v. 285; p. 381.
Koch, Arthur A., Detroit, Mich. Starting fluid for automobiles, &c. No. 141,587; Apr. 26; v. 285; p. 780.
Kohlman, Chas., & Co., Inc., New York, N. Y. Cotton piece goods. No. 141,156; Apr. 12; v. 285; p. 381.

Konishi Kotakudo & Company, New York, N. Y. Watch-crystals. No. 141,588; Apr. 26; v. 285; p. 780.
Kool Kola Co., Oklahoma, Okla. Non-alcoholic maltless carbonated beverages, syrups for making the same. No. 141,589; Apr. 26; v. 285; p. 780.
Kovis Company, Springfield, Mass. Medicinal preparation—namely, a blood and nerve tonic. No. 141,309; Apr. 19; v. 285; p. 568.
Krolik, A., & Company, Detroit, Mich., and New York, N. Y. Articles of clothing. No. 141,400; Apr. 19; v. 285; p. 568.
Lack Manufacturing Company, New York, N. Y. Articles of clothing. No. 141,590; Apr. 26; v. 285; p. 780.
La France Novelty Co., Inc. (now by change of name Alphen, Inc.,) New York, N. Y. Clothing. No. 141,157; Apr. 12; v. 285; p. 381.
Lamson & Goodnow Manufacturing Company, Shelburne Falls, Mass. Butcher, sticking, and putty knives. No. 141,764; Apr. 26; v. 285; p. 789.
Larabee Flour Mills Corporation, The, Hutchinson, Kans. Wheat-flour. No. 141,591; Apr. 26; v. 285; p. 781.
Lash's Products Co., Chicago, Ill. Maltless beverage. No. 141,401; Apr. 19; v. 285; p. 568.
Lawrence Canning Co., Rockland, Me. Poultry and stock feeds, fish-meal. No. 141,402; Apr. 19; v. 285; p. 568.
Lax & Burgheimer Corp., New York, N. Y. Hosiery and knitted underwear. No. 141,765; Apr. 26; v. 285; p. 789.
Lebels Hosiery Company, Chippewa Falls, Wis. Hosiery. No. 141,766; Apr. 26; v. 285; p. 789.
Lees, James, and Sons Company, Bridgeport, Pa. Worsted, woolen, silk, and silk and wool mixed yarns. No. 141,592; Apr. 26; v. 285; p. 781.
Leister, Max H., assignor to Ades Product Corporation, Philadelphia, Pa. Non-alcoholic, non-cereal, non-malt beverages. No. 141,160; Apr. 12; v. 285; p. 382.
Le Rose Co., The, New York, N. Y. Infants' and children's white and colored coats. No. 141,403; Apr. 19; v. 285; p. 568.
Lever Brothers Company, Cambridge, Mass. Cooking compound. No. 141,161; Apr. 12; v. 285; p. 382.
Levering Coffee Co., The, Baltimore, Md. Coffee. No. 141,593; Apr. 26; v. 285; p. 781.
Levy, Manasseh, New York, N. Y. Small imported watches. No. 141,771; Apr. 26; v. 285; p. 789.
Levy, Simon D., New York, N. Y. Men's outer suits and overcoats. No. 141,405; Apr. 19; v. 285; p. 568.
Lexington Brewing Company, Lexington, Ky. Non-alcoholic malt beverage. No. 141,594; Apr. 26; v. 285; p. 781.
Liberty Baking Company, Pittsburgh, Pa. Bread. No. 141,404; Apr. 19; v. 285; p. 568.
Lincoln Motor Company, Detroit, Mich. Motor-cars. No. 141,162; Apr. 12; v. 285; p. 382.
Lindner, Jno., Carlisle, Pa. Women's and misses' boots, shoes, slippers, pumps. No. 141,406; Apr. 19; v. 285; p. 568.
Loose Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 141,596; Apr. 26; v. 285; p. 781.
Lopes Export Company, assignor to Lopes Export Company, Incorporated, New York, N. Y. Leather. No. 141,595; Apr. 26; v. 285; p. 781.
Lowe, Leon P., San Francisco, Calif. Gas or vapor heaters. No. 141,407; Apr. 19; v. 285; p. 568.
Lumen Bearing Company, Buffalo, N. Y. Cored and solid bronze bars. No. 141,767; Apr. 26; v. 285; p. 789.
Lydon Manufacturing Co., Chicago, Ill. Spark-plug insulators. No. 141,597; Apr. 26; v. 285; p. 781.
McCarty, Dwight G., Emmetsburg, Iowa. Blank books and forms, files, &c. No. 141,408; Apr. 19; v. 285; p. 568.
McCord Manufacturing Company, Inc., Detroit, Mich. Force-feed lubricator. No. 141,768; Apr. 26; v. 285; p. 789.
McCord Manufacturing Company, Inc., Detroit, Mich. Metal-shim stock. No. 141,769; Apr. 26; v. 285; p. 789.
McKnight, W. F., Healdton, Okla. Laxative cold-tablets. No. 141,409; Apr. 19; v. 285; p. 568.
McLoughlin, John J., Philadelphia, Pa. Petticoats. No 141,598; Apr. 26; v. 285; p. 781.
McQuay Norris Mfg. Co., St. Louis, Mo. Engine, automobile, piston, and compressor rings of metal. No. 141,770; Apr. 26; v. 285; p. 789.
Macher, Robert J., New York, N. Y. Watchcases. No. 141,599; Apr. 26; v. 285; p. 781.
MacX Feed Milling Co., Clinton, Iowa. Stock feed. No. 141,410; Apr. 19; v. 285; p. 568.
Macy, R. H., & Co., Inc., New York, N. Y. All-wool blankets. No. 141,600; Apr. 26; v. 285; p. 781.
Mangan & Co., New York, N. Y. Equine fever-powder. No. 141,164; Apr. 12; v. 285; p. 382.
Mangano Manufacturing Company, Rahway, N. J. Dry colors adapted for use in the manufacture of inks and inking material. No. 141,163; Apr. 12; v. 285; p. 382.
Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for supporting outer garments. No. 141,601; Apr. 26; v. 285; p. 781.
Marion Steam Shovel Company, The, Marion, Ohio. Electric shovels. No. 141,294; Apr. 12; v. 285; p. 388.
Marion Steam Shovel Co., Marion, Ohio. Shovels, dredges, ditchers, &c. No. 141,772; Apr. 26; v. 285; p. 789.
Marjax Chemical Co., Baltimore, Md. Pile-salve. No. 141,165; Apr. 12; v. 285; p. 382.
Marshall Field & Company, Chicago, Ill. Burlap. No. 141,293; Apr. 12; v. 285; p. 388.
Marshall Field & Company, Chicago, Ill. Sheets, pillow-cases, bedspreads, &c. No. 141,773; Apr. 26; v. 285; p. 789.
Marshall Field & Company, Chicago, Ill. Cheese-cloth in the piece. No. 141,774; Apr. 26; v. 285; p. 790.
Marshall Field & Company, Chicago, Ill. Sheetings. No. 141,775; Apr. 26; v. 285; p. 790.
Marshall Oil Company, Marshalltown, Iowa. Spark-plugs. No. 141,776; Apr. 26; v. 285; p. 790.
Martin Chemical Company, Pittsburgh, Pa. Novocain, and novocain and epinephrin tablets. No. 141,602; Apr. 26; v. 285; p. 781.
Martin, Thomas H., Columbus, Ohio. Devices for discharging the contents of collapsible tubes. No. 141,411; Apr. 19; v. 285; p. 568.
Martin Varnish Company, Chicago, Ill. Wood-stain or floor-dressing. No. 141,603; Apr. 26; v. 285; p. 781.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies and chocolates. No. 141,604; Apr. 26; v. 285; p. 781.
Massachusetts Baking Company, Springfield, Mass. Bakery products. No. 141,167; Apr. 12; v. 285; p. 382.
Massasoit Manufacturing Company, Fall River, Mass. Wicking for packing purposes. No. 141,166; Apr. 12; v. 285; p. 382.
Massasoit Manufacturing Company, Fall River, Mass. Packing. No. 141,605; Apr. 26; v. 285; p. 781.
Master Music Company, The, Wilmington, Del., and Philadelphia, Pa. Pianos, piano-players, and organs, all electrically controlled. No. 141,168; Apr. 12; v. 285; p. 382.
Maxwell Motor Company, Incorporated, Detroit, Mich. Automobiles. No. 141,607; Apr. 26; v. 285; p. 781.
Mechanische Trikotweberei Stuttgart Ludwig Maier & Co., Boblingen, Stuttgart, Germany. Articles of clothing. No. 141,412; Apr. 19; v. 285; p. 568.
Merrell, William S., Company, The, Cincinnati, Ohio. Alkaline rhubarb compound used in various intestinal and stomachic disorders and as a tonic. No. 141,608; Apr. 26; v. 285; p. 781.
Merrill Company, The, San Francisco, Calif. Plug-valves. No. 141,609; Apr. 26; v. 285; p. 781.
Merryweather Coffee, Tea & Spice Co., Cincinnati, Ohio. Coffee. No. 141,413; Apr. 19; v. 285; p. 568.
Merryweather Coffee, Tea & Spice Co., Cincinnati, Ohio. Mixed tea. No. 141,414; Apr. 19; v. 285; p. 568.
Mesa, Fernando C., Irvington, N. J. Electrical apparatus. No. 141,415; Apr. 19; v. 285; p. 568.
Metric Appliance Corporation, New York, N. Y. Pocket ammeters and voltmeters and wattmeters. No. 141,169; Apr. 12; v. 285; p. 382.
Metro Chocolate Co. Inc., The, Brooklyn, N. Y. Chocolate candy. No. 141,610; Apr. 26; v. 285; p. 781.
Mezuo Chemical Company, Montgomery, Ala. Phonograph-record cleaners. No. 141,170; Apr. 12; v. 285; p. 382.
Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 141,171; Apr. 12; v. 285; p. 382.
Midland Cereal Products Co., Denver, Colo. Wheat-flour. No. 141,611; Apr. 26; v. 285; p. 781.
Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 141,172; Apr. 12; v. 285; p. 382.
Migel, J. A., Inc., New York, N. Y. Piece goods. No. 141,173; Apr. 12; v. 285; p. 382.
Miles, Dr., Medical Company, Elkhart, Ind. Remedy for treatment of the blood, heart, &c. No. 141,782; Apr. 26; v. 285; p. 790.
Millbrook Woolen Mills, New York, N. Y. Woolen and cotton piece goods. Nos. 141,778–9; Apr. 26; v. 285; p. 790.
Miller, Solomon S., Reading, Pa. Ladies' misses' and children's hosiery. No. 141,780; Apr. 26; v. 285; p. 790.
Millers Falls Paper Company, Millers Falls, Mass. Printing and writing papers. No. 141,295; Apr. 12; v. 285; p. 388.
Millers Milling Company, The, Enid, Okla. Wheat-flour. No. 141,612; Apr. 26; v. 285; p. 786.
Mills Candy Company, Milwaukee, Wis. Candy. No. 141,613; Apr. 26; v. 285; p. 781.
Mills & Gibb Corp., New York, N. Y. Cotton piece goods. No. 141,781; Apr. 26; v. 285; p. 790.
Minneapolis Steel & Machinery Company, Minneapolis, Minn. Motor-driven trucks. No. 141,296; Apr. 12; v. 285; p. 388.
Minnesota Mining & Mfg. Co., St. Paul, Minn. Abrasive paper and cloth. Nos. 141,174–5; Apr. 12; v. 285; p. 382.
Mint Products Co., Inc., New York, N. Y. Candy. Nos. 141,176–81; Apr. 12; v. 285; p. 382.
Mitchell, George, New York, N. Y. Phonographs. No. 141,614; Apr. 26; v. 285; p. 781.
Mohegan Wall Board & Roofing Corporation, New York, N. Y. Asphalt roofing. Nos. 141,615–6; Apr. 26; v. 285; p. 781.
Monarch Leather Company, Chicago, Ill. Leather. No. 141,783; Apr. 26; v. 285; p. 790.
Moore, Virgil V., Cordele, Ga. Vulcanizing-patches for automobile tires and inner tubes. No. 141,617; Apr. 26; v. 285; p. 781.
More-Jones Brass & Metal Company, St. Louis, Mo. Babbitt metal. Nos. 141,784–7; Apr. 26; v. 285; p. 791.

Morgan, Hubert S., Boston, Mass. Liquid remedy for external application for hay-fever and the like. No. 141,416; Apr. 19; v. 285; p. 568.
Morris & Company, Inc., Baltimore, Md. Ladies', misses', and children's dresses. No. 141,618; Apr. 26; v. 285; p. 781.
Motor Spindle Corporation, Detroit, Mich. Front-wheel spindles for Ford automobiles. No. 141,619; Apr. 26; v. 285; p. 781.
Mueller, Ralph S., Cleveland, Ohio. Connection-clips. No. 141,182; Apr. 12; v. 285; p. 382.
Myer, Thomas J., & Co., Baltimore, Md. Canned fruits and vegetables. No. 141,620; Apr. 26; v. 285; p. 781.
Nash, Wylie T., Denver, Colo. Tonic for the blood and appetite. No. 141,621; Apr. 26; v. 285; p. 781.
National Carbon Company, Inc., Cleveland, Ohio. Electric batteries, flashlights, &c. No. 141,183; Apr. 12; v. 285; p. 382.
National Pharmacy Co., Oakland, Calif. Nipple-cerate. No. 141,417; Apr. 19; v. 285; p. 568.
National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 141,184; Apr. 12; v. 285; p. 382.
National Ring Traveler Co., Providence, R. I. Belt-hooks. No. 141,622; Apr. 26; v. 285; p. 781.
National Supply Company, The, Toledo, Ohio. Gas and oil burners, coal heating-stoves, Welsbach mantles, &c. No. 141,185; Apr. 12; v. 285; p. 382.
National Trading Company, Chicago, Ill. Hair-nets. No. 141,788; Apr. 26; v. 285; p. 791.
National Twist Drill & Tool Company, Detroit, Mich. Twist-drills. No. 141,418; Apr. 19; v. 285; p. 568.
Nazareth Waist Co., Nazareth, Pa. Waists and vests. No. 141,186; Apr. 12; v. 285; p. 382.
Nazel Engineering & Machine Works, Philadelphia, Pa. Power-hammers. No. 141,187; Apr. 12; v. 285; p. 382.
New York Merchandise Company, New York, N. Y. Hair-nets and veils. Nos. 141,623–4; Apr. 26; v. 285; pp. 781–2.
New York & New Jersey Lubricant Co., New York, N. Y. Lubricating oils, greases, and compounds. No. 141,791; Apr. 26; v. 285; p. 791.
New York Wood Finishers Supply Co., Inc., New York, N. Y. Paints and painters' materials. No. 141,419; Apr. 19; v. 285; p. 568.
Newark Varnish Works, Newark, N. J. Varnish. No. 141,789; Apr. 26; v. 285; p. 791.
Newman Tire & Rubber Co. Inc., New York, N. Y. Rubber tires and tubes. No. 141,790; Apr. 26; v. 285; p. 791.
Newton, James E., Fall River, Mass. Rhode Island Indian-corn meal. No. 141,188; Apr. 12; v. 285; p. 382.
Niagara Wall Board Company Incorporated, Buffalo, N. Y. Wall and sheathing board and building-paper. No. 141,297; Apr. 12; v. 285; p. 388.
Nichthauser & Levy, Brooklyn, N. Y. Ash-sifters. No. 141,792; Apr. 26; v. 285; p. 791.
North East Electric Company, Rochester, N. Y. Electric starting, lighting, and ignition apparatus for motor-vehicles. No. 141,189; Apr. 12; v. 285; p. 382.
Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 141,420; Apr. 19; v. 285; p. 568.
Northwest Evaporating Company, Cashmere, Wash. Evaporated apples. No. 141,626; Apr. 26; v. 285; p. 782.
Northwestern Expanded Metal Company, Chicago, Ill. Beams, studding, and joists of metal. No. 141,625; Apr. 26; v. 285; p. 782.
Notaseme Hosiery Company, Philadelphia, Pa. Hosiery. No. 141,793; Apr. 26; v. 285; p. 791.
Nott, W. S., Company, Minneapolis, Minn. Leather belting. No. 141,627; Apr. 26; v. 285; p. 782.
Nulsen Corporation, Manufacturers, The, St. Louis, Mo. Barytes, sulfate of barium, &c. No. 141,628; Apr. 26; v. 285; p. 782.
O. & W. Thum Company, The, Grand Rapids, Mich. Preparation for the destruction of ants, roaches, &c. No. 141,448; Apr. 19; v. 285; p. 569.
O-Pee-Chee Gum Co., Limited, London, Ontario, Canada. Popcorn confection. No. 141,630; Apr. 26; v. 285; p. 782.
Oldham, Harry D., Urbana, Ill. Liniments. No. 141,629; Apr. 26; v. 285; p. 782.
Onnen, Adolph C., Baltimore, Md. Toilet cream. No. 141,421; Apr. 19; v. 285; p. 568.
Oshimo, Fred. M., Portland, Oreg. Deodorant salve. No. 141,631; Apr. 26; v. 285; p. 782.
Overland Mfg. Co., Boston, Mass. Overalls, unionalls, &c. No. 141,190; Apr. 12; v. 285; p. 383.
Oversea Export Co. Ltd., The, Christiania, Norway. Bristling and sild. Nos. 141,191–2; Apr. 12; v. 285; p. 383.
Package Confectionery Company, Boston, Mass. Candy. No. 141,193; Apr. 12; v. 285; p. 383.
Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 141,632; Apr. 26; v. 285; p. 782.
Palmer, Carl, Grand Rapids, Mich. Tires, tubes, inner linings, &c. No. 141,194; Apr. 12; v. 285; p. 383.
Palmer, Leo, New York, N. Y. Talking-machines. No. 141,422; Apr. 19; v. 285; p. 568.
Pan America Supply Company Inc., New York, N. Y. Green malt, hops, and pitch. No. 141,195; Apr. 12; v. 285; p. 383.
Pangborn Corporation, Hagerstown, Md. Sand-blast and allied equipment and foundry equipment and supplies. No. 141,633; Apr. 26; v. 285; p. 782.
Parfumerie Houbigant, Paris, France. Perfumes, toilet waters, face-powders, &c. Nos. 141,388–93; Apr. 19; v. 285; p. 567.
Paterson Brewing & Malting Company, Paterson, N. J. Malt beverage. Nos. 141,634–5; Apr. 26; v. 285; p. 782.
Patrick, F. A., & Co., Duluth, Minn. Embroidery cotton, sewing silks, &c. No. 141,794; Apr. 26; v. 285; p. 791.
Patterson, Gottfried and Hunter Inc., New York, N. Y. Vent-patching material. No. 141,196; Apr. 12; v. 285; p. 383.
Patterson-Sargent Company, Cleveland, Ohio. Carbon-remover. No. 141,197; Apr. 12; v. 285; p. 383.
Patton Paint Company, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company. Liquid metal-polish. No. 141,636; Apr. 26; v. 285; p. 782.
Pauly, Julius, Incorporated, New York, N. Y. Shampoos. No. 141,637; Apr. 26; v. 285; p. 782.
Pearson-Wiggins Co., Chicago, Ill. Device for measuring and controlling the flow of gasolene. No. 141,198; Apr. 12; v. 285; p. 383.
Peerless Bread Machine Company, Sidney, Ohio. Certain machinery for bakeries. No. 141,795; Apr. 26; v. 285; p. 792.
Pels-Jones, New York, N. Y. Jewelry. No. 141,638; Apr. 26; v. 285; p. 782.
Penn, A. C., Incorporated, Newark, N. J., and New York, N. Y. Electric portable lamps and electric-lamp supports. No. 141,298; Apr. 12; v. 285; p. 389.
Penn, A. C., Incorporated, Newark, N. J., and New York, N. Y. Razors and razor-blades. Nos. 141,796–7; Apr. 26; v. 285; p. 792.
Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. No. 141,199; Apr. 12; v. 285; p. 383.
Perry-Lorenson Phonograph Company, Hudson, N. Y. Phonographs. No. 141,299; Apr. 12; v. 285; p. 389.
Peterson, Stavros F., New York, N. Y. Candy. No. 141,639; Apr. 26; v. 285; p. 782.
Philpot, Richard C., Bennington, Okla. Preparation for blindstaggers in horses, hogs, &c. No. 141,640; Apr. 26; v. 285; p. 782.
Piccoli, Nick, Paterson, N. J. Shoe-polish and hat-cleaning material. No. 141,200; Apr. 12; v. 285; p. 383.
Piscuill, Ferdinand M., Yonkers, N. Y. Polish for automobile-bodies, pianos, furniture, and the like. No. 141,201; Apr. 12; v. 285; p. 383.
Pitard's Inc., New Orleans, La. Cutlery and tools. No. 141,202; Apr. 12; v. 285; p. 383.
Pittsburgh Plate Glass Company. (See Patton Paint Company, assignor.)
Pollard, Margaret, Toronto, Ontario, Canada. Medicine for scrofula and skin affections. No. 141,641; Apr. 26; v. 285; p. 782.
Pollard, Margaret, Toronto, Ontario, Canada. Nerve medicine or preparation. No. 141,642; Apr. 26; v. 285; p. 782.
Pratt Food Co., Philadelphia, Pa. Foods for horses, cattle, hogs, &c. No. 141,799; Apr. 26; v. 285; p. 792.
Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits, vegetables, and grapes. Nos. 141,800–1; Apr. 26; v. 285; p. 792.
Pratt, Milan F., Rochester, N. Y. Medicine for the nerves and blood. No. 141,777; Apr. 26; v. 285; p. 790.
Press, George F., Detroit, Mich. Preparation for use in producing whipped cream. No. 141,203; Apr. 12; v. 285; p. 383.
Prest-O-Lite Company, Inc., Indianapolis, Ind. Trade publication. No. 141,204; Apr. 12; v. 285; p. 383.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap chips. No. 141,205; Apr. 12; v. 285; p. 383.
Propp, M., Co., The, New York, N. Y. Electrical attachment-plugs, sockets, and connectors. No. 141,206; Apr. 12; v. 285; p. 383.
Puente Oil Company, Los Angeles, Calif. Lubricating-oils. No. 141,643; Apr. 26; v. 285; p. 782.
Puyallup & Sumner Fruit Growers Canning Company, Puyallup, Wash. Fruit jam. No. 141,207; Apr. 12; v. 285; p. 383.
Pyro Products Company, Chicago, Ill. Refractory cement used to bind fire-bricks. No. 141,208; Apr. 12; v. 285; p. 383.
Quick Tire Service, Inc., New York, N. Y. Tires and inner tubes. No. 141,209; Apr. 12; v. 285; p. 383.
Quinlan, H. T., & Company, St. Paul, Minn. Canned goods, fish, teas, coffees. No. 141,210; Apr. 12; v. 285; p. 383.
Radel Leather Manufacturing Co., Newark, N. J. Patent-leather. No. 141,644; Apr. 26; v. 285; p. 782.
Rappaport, Max, Los Angeles, Calif. Hats and caps for men and boys. No. 141,606; Apr. 26; v. 285; p. 781.
Ray Tire & Rubber Company, Chicago, Ill. Pneumatic tires and interliners. No. 141,645; Apr. 26; v. 285; p. 782.
Raymond, George R., Salt Lake City, Utah. Refined elaterite used as a paint. No. 141,646; Apr. 26; v. 285; p. 782.
Red Top Steel Post Company. (See Anderson, Brooke, assignor.)
Relyea Soap Company, Louisville, Ky. Cleansing, bleaching, bluing, and stain-removing pulverized soap. No. 141,211; Apr. 12; v. 285; p. 383.
Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 141,802; Apr. 26; v. 285; p. 792.

Rhodes, M. M., & Sons Co., Taunton, Mass. Shoe-laces. No. 141,821; Apr. 26; v. 285; p. 784.
Rhodes Manufacturing Company, The, St. Louis, Mo. Mechanical razor-strops. No. 141,423; Apr. 19; v. 285; p. 568.
Rice-Stix Dry Goods Company, St. Louis, Mo. Clothing. No. 141,803; Apr. 26; v. 285; p. 792.
Riordon Pulp & Paper Company Limited, Montreal, Quebec, Canada. Bleached and unbleached sulfite pulp. No. 141,424; Apr. 19; v. 285; p. 568.
Robbins & Schwartz, New York, N. Y. Hair-nets. No. 141,666; Apr. 26; v. 285; p. 783.
Robert, J., Paris, France. Medicinal preparation for injection into the veins to combat tuberculosis. No. 141,647; Apr. 26; v. 285; p. 782.
Robertson, Sylvia S., Clear Lake, Iowa. Women's outer dresses. No. 141,431; Apr. 19; v. 285; p. 568.
Robson Leather Company, Limited, The, Oshawa, Ontario, Canada. Leather. No. 141,425; Apr. 19; v. 285; p. 568.
Rockland and Rockport Lime Corporation, Rockland, Me. Hydrated lime. No. 141,648; Apr. 26; v. 285; p. 782.
Roe, A. V., & Co. Limited, London, England. Motor-cars, parts, and accessories. No. 141,426; Apr. 19; v. 285; p. 568.
Romanjo Tire Company, Chicago, Ill. Rubber automobile and truck tires and inner tubes. No. 141,056; Apr. 5; v. 285; p. 187.
Rose Valley Company, The, Philadelphia, Pa. Music-rolls for player-pianos. No. 141,427; Apr. 19; v. 285; p. 568.
Rosenberg, David L., Boston, Mass. Petticoats and ladies' bloomers and knickerbockers. No. 141,430; Apr. 19; v. 285; p. 568.
Roth, Adam, Grocery Company, St. Louis, Mo. Coffee. No. 141,649; Apr. 26; v. 285; p. 782.
Rudy Furnace Co., The, Dowagiac, Mich. Coal and wood stoves and furnaces. No. 141,428; Apr. 19; v. 285; p. 568.
Russell, John, Cutlery Co., Turners Falls, Mass. Whittling kits. No. 141,429; Apr. 19; v. 285; p. 568.
Russell Manufacturing Company, The, Middletown, Conn. Garters and hose-supporters. No. 141,650; Apr. 26; v. 285; p. 782.
Rust & Thompson, Malden, Mass. Creepers, rompers, and boys' suits. No. 141,665; Apr. 26; v. 285; p. 782.
Rustless Rule Co. Inc., Buffalo, N. Y. Rules. No. 141,804; Apr. 26; v. 285; p. 793.
S. C. Agricultural Distributing Co., Lake City, S. C. Walking and sulky plows, stalk-cutters, cultivators, &c. No. 141,435; Apr. 19; v. 285; p. 569.
Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, costumes, &c. No. 141,212; Apr. 12; v. 285; p. 383.
Sargent's, C. G., Sons Corporation, Graniteville, Mass. Wool and yarn treating machinery. No. 141,432; Apr. 19; v. 285; p. 569.
Say Tay Co., Louisville, Ky. Non-alcoholic, non-cereal, maltless beverage. No. 141,213; Apr. 12; v. 285; p. 383.
"Scandinavia" Belting Ltd., London, England. Cotton and hair belting. No. 141,214; Apr. 12; v. 285; p. 383.
Schapira, William, New York, N. Y. Laxatives. No. 141,215; Apr. 12; v. 285; p. 383.
Schiller, Louis, San Francisco, Calif. Non-alcoholic maltless beverage. No. 141,433; Apr. 19; v. 285; p. 569.
Schlesinger, Maurice F., New York, N. Y. Aromatized castor-oil. No. 141,805; Apr. 26; v. 285; p. 793.
Schlichting, Arthur E., Sheboygan Falls, Wis. Chocolate dessert-pudding. No. 141,434; Apr. 19; v. 285; p. 569.
Schneiders, S., and Son, London, England. Men's, youths', and boys' jackets, vests, raincoats, &c. No. 141,216; Apr. 12; v. 285; p. 383.
Schroetter, Arnold & Co., New York, N. Y. Gold alloy. No. 141,667; Apr. 26; v. 285; p. 783.
Schuster Co., The, Cleveland, Ohio. Non-alcoholic maltless beverage. No. 141,217; Apr. 12; v. 285; p. 383.
Schwabacher Bros. & Co. Inc., Seattle, Wash. Candies. No. 141,668; Apr. 26; v. 285; p. 783.
Scott Player Action Co., Racine, Wis. Player-piano actions. No. 141,218; Apr. 12; v. 285; p. 383.
Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned tuna fish, albacore, mackerel, &c. No. 141,219; Apr. 12; v. 285; p. 383.
Sealy, Thomas, New York, N. Y. Spirits of turpentine. No. 141,220; Apr. 12; v. 285; p. 384.
Sears Manufacturing Company, Lockhart, Tex. Wear-pads to be fastened to the knees. No. 141,221; Apr. 12; v. 285; p. 384.
Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 141,222; Apr. 12; v. 285; p. 384.
Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. Nos. 141,671–2; Apr. 26; v. 285; p. 783.
Sears, Roebuck & Company, Chicago, Ill. Wool yarn. No. 141,670; Apr. 26; v. 285; p. 783.
Senneff-Herr Co., Sterling, Ill. Confectioners' products. No. 141,223; Apr. 12; v. 285; p. 384.
Senneff-Herr Co., Sterling, Ill. Confectioner's product used for ice-cream syrup-toppings. No. 141,669; Apr. 26; v. 285; p. 783.
Serv-us Grocery Products Corporation, New York, N. Y. Fruit-jar rings. No. 141,673; Apr. 26; v. 285; p. 783.
Service Recorder Company, Cleveland, Ohio. Instruments for recording the periods of operation and of rest of machinery and vehicles. No. 141,806; Apr. 26; v. 285; p. 793.
Sessum, B. L., Memphis, Tenn. Animal feed products. No. 141,436; Apr. 19; v. 285; p. 569.
Shapleigh Hardware Company, St. Louis, Mo. Phonograph-records. No. 141,674; Apr. 26; v. 285; p. 783.
Shaw, Alex D., & Co., New York, N. Y. Olive-oil. No. 141,224; Apr. 12; v. 285; p. 384.
Shedd Creamery Co., The, Detroit, Mich. Oleomargarin. No. 141,675; Apr. 26; v. 285; p. 783.
Sherman Overall Manufacturing Company, Sherman, Tex. Overalls. No. 141,225; Apr. 12; v. 285; p. 384.
Sherratt, Ralph S., St. Louis, Mo. Popcorn confection. No. 141,676; Apr. 26; v. 285; p. 783.
Sherman White & Company, Fort Wayne, Ind. Butter, eggs, cheese, &c. No. 141,226; Apr. 12; v. 285; p. 384.
Shoot Chocolate Company, The, Cleveland, Ohio. Chocolate and hard candies. No. 141,677; Apr. 26; v. 285; p. 783.
Sickels & Roush, Columbus, Ohio. Scalp-tonics. No. 141,437; Apr. 19; v. 285; p. 569.
Siegelstein, Kathryn G., New York, N. Y. Ladies' hats. No. 141,438; Apr. 19; v. 285; p. 569.
Siemon & Elting, New York, N. Y. Paint-oil. No. 141,227; Apr. 12; v. 285; p. 384.
Simmons Hardware Company, St. Louis, Mo. Shaving cream and soap. No. 141,439; Apr. 19; v. 285; p. 569.
Simmons Hardware Company, St. Louis, Mo. Brushes and mops. No. 141,807; Apr. 26; v. 285; p. 793.
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. No. 141,678; Apr. 26; v. 285; p. 783.
Skinner Manufacturing Company, Omaha, Nebr. Macaroni, vermicelli, and egg-noodles. No. 141,808; Apr. 26; v. 285; p. 793.
Sloan, Dr. Earl S., Incorporated, New York, N. Y. Liniment. No. 141,300; Apr. 12; v. 285; p. 389.
Smith-Davis Company, Inc., New Orleans, La. Table-syrup. No. 141,679; Apr. 26; v. 285; p. 783.
Smith, Eugene A., Chicago, Ill. Monthly magazine. No. 141,229; Apr. 12; v. 285; p. 384.
Smith, Gerald N., Pittsburgh, Pa. Household ammonia, bleaching fluid, bluing. No. 141,230; Apr. 12; v. 285; p. 384.
Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. No. 141,809; Apr. 26; v. 285; p. 793.
Smith Standard Company, The, Cleveland, Ohio. Live chicks. No. 141,680; Apr. 26; v. 285; p. 783.
Smyth, E. G. Co., St. Louis, Mo. Poultry feeds. No. 141,681; Apr. 26; v. 285; p. 783.
Snyder, John E., Washington, D. C. Women's and misses' trimmed hats. No. 141,231; Apr. 12; v. 285; p. 384.
Soak-Em Shaving Towel Company, Oakland, Calif. Cloth shaving-towels. No. 141,682; Apr. 26; v. 285; p. 783.
Societe Anonyme des Etablts Esselbé, Levallois-Perret, France. Electrical apparatus, spark-coils, electric switches, &c. No. 141,232; Apr. 12; v. 285; p. 384.
Société Anonyme Tissage et Bonneterie de Troyes, Troyes, France. Clothing. No. 141,683; Apr. 26; v. 285; p. 783.
Societe des Moteurs Gnome et Rhone, Paris, France. Electrical mechanism and apparatus. No. 141,233; Apr. 12; v. 285; p. 384.
Societe des Moteurs Gnome et Rhone, Paris, France. Instruments for use in navigation. No. 141,234; Apr. 12; v. 258; p. 384.
Southern Export Corporation, New York, N. Y. Silk hosiery-yarns. No. 141,684; Apr. 26; v. 285; p. 783.
Specialty Knit Goods Manufacturing Co., Brooklyn, N. Y. Knitted fabrics of wool. No. 141,685; Apr. 26; v. 285; p. 783.
Spicehandler, Charles, New York, N. Y. Cotton thread. Nos. 141,235–6; Apr. 12; v. 285; p. 384.
Spiltdorf Electrical Company, Newark, N. J. Electric switches, magneto and dynamo electric machines. No. 141,440; Apr. 19; v. 285; p. 569.
Sprague, Warner & Company, Chicago, Ill. Laundry soap. No. 141,237; Apr. 12; v. 285; p. 384.
St. Louis Independent Packing Company, St. Louis, Mo. Oleomargarin. No. 141,811; Apr. 26; v. 285; p. 793.
Standard Concrete Apparatus Co., Washington, D. C. Concrete-testing molds. No. 141,238; Apr. 12; v. 285; p. 384.
Standard Imports Limited, Montreal, Quebec, Canada. Hops. No. 141,239; Apr. 12; v. 285; p. 384.
Standard Oil Company of New York, New York, N. Y. Crayons. No. 141,686; Apr. 26; v. 285; p. 783.
Standard Steel Car Company, Pittsburgh, Pa. Automobiles and motor-trucks. No. 141,057; Apr. 5; v. 285; p. 187.
Starr Piano Company, The, Richmond, Ind. Phonographs and records for same. No. 141,810; Apr. 26; v. 285; p. 793.
Steinway & Sons, New York, N. Y. Pianos. No. 141,687; Apr. 26; v. 285; p. 783.
Sterling Pure Food Co. Inc., Brooklyn, N. Y. Puddings and desserts in prepared form. No. 141,442; Apr. 19; v. 285; p. 569.
Stern Brothers, New York, N. Y. Corsets. No. 141,688; Apr. 26; v. 285; p. 783.

Stout Crate Co., The, Chicago, Ill. Washing compounds. No. 141,443; Apr. 19; v. 285; p. 569.
Stransky Mfg. Co. Inc., New York, N. Y. Semi-indirect electric-lighting fixtures. No. 141,689; Apr. 26; v. 285; p. 783.
Strasburger, Jos., Co., Washington, D. C. Leather shoes. No. 141,444; Apr. 19; v. 285; p. 569.
Studebaker Corporation, The, South Bend, Ind., and Detroit, Mich. Automobiles, motor-trucks, and trailers. No. 141,690; Apr. 26; v. 285; p. 783.
Subin, C., & Co., New York, N. Y. Men's and boys' dress, negligée, and work shirts. No. 141,240; Apr. 12; v. 285; p. 384.
Superior Laboratories, Grand Rapids, Mich. Oily preparation for cleaning metal surfaces and preventing rust. No. 141,242; Apr. 12; v. 285; p. 384.
Sussfeld, Lorsch & Co., New York, N. Y. Lorgnette-frames. No. 141,241; Apr. 12; v. 285; p. 384.
Suvi, Arvi A., New York, N. Y. Fruit confections. No. 141,691; Apr. 26; v. 285; p. 783.
Swartz, Milton D., Baltimore, Md. Paints. No. 141,243; Apr. 12; v. 285; p. 384.
Sweet Valley Products Co., The, Sandusky, Ohio. Unfermented, maltless, &c., beverage. No. 141,244; Apr. 12; v. 285; p. 384.
Swinborne, Latimer P., London, England. Isinglass, gelatin, and gelatinous substances. Nos. 141,158–9; Apr. 12; v. 285; p. 382.
Swisher, B. F., Cheyenne, Wyo. Laxative preparation. No. 141,245; Apr. 12; v. 285; p. 384.
Syracuse Candy Works, Inc., Syracuse, N. Y. Candy. No. 141,246; Apr. 12; v. 285; p. 384.
Talbert-Whitmore Company, Los Angeles, Calif. Shade-cloth. No. 141,692; Apr. 26; v. 285; p. 783.
Talking Photo Corporation, New York, N. Y. Phonograph record-disks. No. 141,693; Apr. 26; v. 285; p. 783.
Taunton Rubber Co. Inc., Taunton, Mass. Rubber heels. No. 141,812; Apr. 26; v. 285; p. 793.
Taylor Instrument Companies, Rochester, N. Y. Thermometers, barometers, compasses, &c. No. 141,813; Apr. 26; v. 285; p. 793.
Tecktonius, E. C., Manufacturing Company, Racine, Wis. Silos. No. 141,814; Apr. 26; v. 285; p. 794.
Tee Pee Rubber Company, New York, N. Y. Rubber heels and rubber lifts. No. 141,445; Apr. 19; v. 285; p. 569.
Teed, Robert M., Pittsburgh, Pa. Moving-picture films. No. 141,247; Apr. 12; v. 285; p. 384.
Terhorst, Louise O., Milwaukee, Wis. Pharmaceutical preparation. No. 141,248; Apr. 12; v. 285; p. 384.
Terrasit Industrie G. m. b. H., Berlin-Halensee, Germany. Construction materials. No. 141,694; Apr. 26; v. 285; p. 783.
Terry, Herbert, & Sons Ltd., Redditch, England. Springs and tools, reamers, shafting, &c. No. 141,249; Apr. 12; v. 285; p. 384.
Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene-oil. No. 141,250; Apr. 12; v. 285; p. 384.
Texas Oil, Gas & Mineral Products Company, Houston, Tex. Powder for cleansing, scouring, and polishing metals, glass, &c. No. 141,446; Apr. 19; v. 285; p. 569.
Thayer, Henry, & Co., Inc., Cambridge, Mass. Remedial, toilet, and shaving soaps and shaving-cream. No. 141,447; Apr. 19; v. 285; p. 569.
Thlinket Packing Corporation, Portland, Oreg. Canned fish. Nos. 141,058–62; Apr. 5; v. 285; p. 187.
Thlinket Packing Corporation, Portland, Oreg. Canned fish. No. 141,695; Apr. 26; v. 285; p. 783.
Tichenor, Walter K., New York, N. Y. Tooth-paste. No. 141,251; Apr. 12; v. 285; p. 384.
Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Derivatives of crude petroleum. Nos. 141,696–702; Apr. 26; v. 285; pp. 783–4.
Tilson, James H., Baxter Springs, Kans. Liniment for rheumatism and catarrh. No. 141,449; Apr. 19; v. 285; p. 569.
Titan Co. A/S, Christiania, Norway. Paint-pigments and paints. No. 141,252; Apr. 12; v. 285; p. 385.
Toland, William, Greenville, S. C. Medicine for smallpox. No. 141,815; Apr. 26; v. 285; p. 794.
Toledo Scale Company, Toledo, Ohio. Weighing-scales and instruments of precision. No. 141,301; Apr. 12; v. 285; p. 389.
Torii Shinjiro, Osaka, Japan. Red and white wines and sweetened wines. No. 141,703; Apr. 26; v. 285; p. 784.
Townsend Grace Company, The, Baltimore, Md. Men's straw hats. No. 141,253; Apr. 12; v. 285; p. 385.
Transport Truck Company, Mount Pleasant, Mich. Gasolene-motor trucks. No. 141,302; Apr. 12; v. 285; p. 389.
Tutelman Brothers, Philadelphia, Pa. Men's negligée shirts. No. 141,451; Apr. 19; v. 285; p. 569.
Tyson & Co., Paris, Tenn. Pharmaceutical preparations. No. 141,450; Apr. 19; v. 285; p. 569.
Uddo Brothers Company Inc., New Orleans, La. Candies. No. 141,255; Apr. 12; v. 285; p. 385.
Ultra Refined Crude Products Company, Chicago, Ill. Medicinal preparation. No. 141,704; Apr. 26; v. 285; p. 784.
Union Chain & Manufacturing Company, The, Seville, Ohio. Cast-tooth sprockets, cut-tooth sprockets, friction-clutches, speed-reducers. No. 141,256; Apr. 12; v. 285; p. 385.
United & Globe Rubber Company, Trenton, N. J. Belts formed of rubber and fabric, vulcanized. No. 141,452; Apr. 19; v. 285; p. 569.
United Nut and Chocolate Company, Wilkes-Barre, Pa. Salted peanuts. No. 141,257; Apr. 12; v. 285; p. 385.
United Retail Candy Stores, Inc., New York, N. Y. Candy. Nos. 141,706–7; Apr. 26; v. 285; p. 784.
United States Products Company, Pittsburgh, Pa. Abrasive bearing-fitting compounds. No. 141,258; Apr. 12; v. 285; p. 385.
United States Sand Paper Co., Williamsport, Pa. Abrasive papers and cloths. No. 141,453; Apr. 19; v. 285; p. 569.
United States Syrup Co., San Francisco, Calif. Syrup of malt and hops for making malt beverages. No. 141,259; Apr. 12; v. 285; p. 385.
United Vegetable Oil Refinery, Inc., Brooklyn, N. Y. Edible vegetable oil. No. 141,705; Apr. 26; v. 285; p. 784.
Universal Garment Company, Inc., Philadelphia, Pa. Men's underwear of textile fabric. No. 141,454; Apr. 19; v. 285; p. 569.
Universal Interests, Inc., New York, N. Y. Electric heaters for air. No. 141,455; Apr. 19; v. 285; p. 569.
Val. Blatz Jr. Candy Co., Milwaukee, Wis. Candy. No. 141,708; Apr. 26; v. 285; p. 784.
Vanity Fair Silk Mills, Reading, Pa. Article of clothing. No. 141,456; Apr. 19; v. 285; p. 569.
Victory Hammered Piston Ring Company, Newark, N. J. Piston-rings. No. 141,709; Apr. 26; v. 285; p. 784.
Viebrock, Cord, Brooklyn, N. Y. Candy. No. 141,457; Apr. 19; v. 285; p. 569.
Vogan Candy Company, Portland, Oreg. Candy. No. 141,710; Apr. 26; v. 285; p. 784.
Voliva, Wilbur G., Zion, Ill. Hard-candy mixture. No. 141,458; Apr. 19; v. 285; p. 569.
Von Bonnewitz, Orlando R., New York, N. Y. Salve and ointments for treatment of rectal diseases. No. 141,459; Apr. 19; v. 285; p. 569.
Wailes Dove Bitumastic Limited, Newcastle-on-Tyne, England. Paints and painters' materials. Nos. 141,260–7; Apr. 12; v. 285; p. 385.
Waldes & Co., Prague, Bohemia. Paper. No. 141,268; Apr. 12; v. 285; p. 385.
Walker, John H., Ravensthorpe, near Dewsbury, England. Piece goods, handkerchiefs, table-cloths, counterpanes, &c. Nos. 141,711–12; Apr. 26; v. 285; p. 784.
Wapato Melon Growers Assn., Wapato, Wash. Cantaloups. No. 141,269; Apr. 12; v. 285; p. 385.
Ward Baking Company, New York, N. Y. Bread. No. 141,460; Apr. 19; v. 285; p. 569.
Ward Baking Company, New York, N. Y. Bread. No. 141,713; Apr. 26; v. 285; p. 784.
Ward Bros. Co., Inc., Buffalo and Rochester, N. Y. Bread and cake. No. 141,303; Apr. 12; v. 285; p. 389.
Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 141,461; Apr. 19; v. 285; p. 569.
Warwick Novelties Inc., Pawtucket, R. I. Jewelry. No. 141,816; Apr. 26; v. 285; p. 794.
Wayagamack Pulp & Paper Co. Limited, Three Rivers, Quebec, Canada. Paper. No. 141,714; Apr. 26; v. 285; p. 784.
Weber, Jacob H., Brooklyn, N. Y. Talking-machines and cabinets. No. 141,715; Apr. 26; v. 285; p. 784.
Webster Electric Company, Racine, Wis. High and low tension ignition-magnetos, magneto-brackets, electrodes, and magneto push-rods. No. 141,304; Apr. 12; v. 285; p. 389.
Weingarten Bros. Inc., New York, N. Y. Corsets, brassières, and corset-covers. No. 141,817; Apr. 26; v. 285; p. 794.
Weinshenker, Michael, Baltimore, Md. Medicinal preparations. No. 141,716; Apr. 26; v. 285; p. 784.
Western Bottle Manufacturing Company, Chicago, Ill. Writing-paper. No. 141,270; Apr. 12; v. 285; p. 385.
Western Dry Goods Co., Seattle, Wash. Hosiery. No. 141,717; Apr. 26; v. 285; p. 784.
White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 141,718; Apr. 26; v. 285; p. 784.
Wichita Mill & Elevator Company, Wichita Falls, Tex. Wheat-flour. No. 141,063; Apr. 5; v. 285; p. 187.
Wichita Motors Company, Wichita, Tex. Publication. No. 141,271; Apr. 12; v. 285; p. 385.
Williams, G. B., Co., The, Quitman, Ga. Insecticides. No. 141,462; Apr. 19; v. 285; p. 569.
Williamson Electric Company, Brooklyn, N. Y. Flash-lights and parts thereof. No. 141,719; Apr. 26; v. 285; p. 784.
Willis, Francis W., Kansas City, Mo. Rubber heels. Nos. 141,273–4; Apr. 12; v. 285; p. 385.
Wilson, J. G., Corporation, Norfolk, Va. Louver or Venetian blinds. No. 141,818; Apr. 26; v. 285; p. 794.
Wing, L. J., Mfg. Co., New York, N. Y. Fans and exhausters. No. 141,463; Apr. 19; v. 285; p. 569.
Wolfinger Knitting Mills, Reading, Pa. Hosiery. No. 141,464; Apr. 19; v. 285; p. 569.
Woodruff, Thomas F., Columbus, Ga. Healing-oil. No. 141,275; Apr. 12; v. 285; p. 385.
Woodwind Company, The, New York, N. Y. Mouthpieces for clarinets and saxophones. No. 141,819; Apr. 26; v. 285; p. 794.

Worcester Abrasive Company, Worcester, Mass. Grinding compound. No. 141,278; Apr. 12; v. 285; p. 385.
World Bottling Co. Ltd., New Orleans, La. Non-alcoholic non-cereal maltless beverages and syrups. No. 141,276; Apr. 12; v. 285; p. 385.
World's Medicine Co., Indianapolis, Ind. Medicinal preparations. No. 141,277; Apr. 12; v. 285; p. 385.
Wortendyke Manufacturing Company, Richmond, Va. Toilet-paper, paper napkins, and towels. No. 141,720; Apr. 26; v. 285; p. 784.
Wuest, Andrew A., Cincinnati, Ohio. Hosiery. No. 141,721; Apr. 26; v. 285; p. 784.
Wyman Partridge & Co., Minneapolis, Minn. Clothing. No. 141,820; Apr. 26; v. 285; p. 794.
Yelle, Adolphe, Hull, Quebec, Canada. Canoe, rowboats, yachts, &c. No. 141,722; Apr. 26; v. 285; p. 784.
Youngken, Eugene W., Philadelphia, Pa. Liver-pills. No. 141,279; Apr. 12; v. 285; p. 385.
Zimetbaum, I., New York, N. Y. Ladies' dresses, suits, coats, &c. No. 141,280; Apr. 12; v. 285; p. 385.
Zittel, Adam, Long Island City, N. Y., M. Zittel, administratrix. Salad-dressing. No. 141,281; Apr. 12; v. 285; p. 385.
Zittel, Margaret, administratrix. (See Zittel, Adam.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Shutter-Johnson Candy Company, Chicago, Ill. "Shutters Fudge." (For Candy.) No. 22,856; Apr. 19; v. 285; p. 570.
Zucker, Rachmiel G., Baltimore, Md. "My Formula." (For a Medicinal Preparation for the Treatment of Nervous Diseases.) No. 22,854; Apr. 12; v. 285; p. 390.
Zucker, Rachmiel G., Baltimore, Md. "My Formula." (For Medicinal Preparation for the Treatment of Epileptic Fits and Convulsions.) No. 22,855; Apr. 12; v. 285; p. 390.

DISCLAIMERS.

Johnstone, Robert McC., Roselle Park, N. J.; disclaimer filed by assignee, Cameron Machine Company. Winding mechanism. No. 1,355,106; disclaimer filed Apr. 12, 1921; v. 285; p. 575.
Platt, Clarence D., Bridgeport, Conn.; disclaimer filed by assignee, The Trumbull Electric Manufacturing Company. Electric-switch construction. No. 1,260,708; disclaimer filed Apr. 11, 1921; v. 285; p. 575.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF APRIL, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasive roller. P. Brauner and E. Metzner. No. 1,374,052; Apr. 5; v. 285; p. 131.
Accelerator connection. H. Corfield. No. 1,373,600; Apr. 5; v. 285; p. 43.
Accordion. K. A. Jakobsson. No. 1,375,156; Apr. 19; v. 285; p. 447.
Acetylation of hydrocarbons and subsequent recovery of the products of the reaction. G. T. Koch and A. L. Stallkamp. No. 1,374,666; Apr. 12; v. 285; p. 290.
Acetylene-generator. N. Goodyear. No. 1,373,419; Apr. 5; v. 285; p. 7.
Acid, Producing maleic. C. R. Downs. No. 1,374,720; Apr. 12; v. 285; p. 301.
Acid-resisting article and making same. A. W. Clement. No. 1,375,673; Apr. 26; v. 285; p. 578.
Acids and glycerids thereof, Treating fatty. H. A. Levy. No. 1,374,589; Apr. 12; v. 285; p. 276.
Advertising and other device. H. K. Harris. No. 1,375,508; Apr. 19; v. 285; p. 514.
Advertising device. C. Garcillan. No. 1,374,005; Apr. 5; v. 285; p. 122.
Advertising device. A. Rasmussen, Sr., and A. Rasmussen, Jr. No. 1,375,260; Apr. 19; v. 285; p. 467.
Advertising device. A. Rasmussen, Sr., and A. Rasmussen, Jr. No. 1,375,261; Apr. 19; v. 285; p. 467.
Advertisement device. C. H. Greig. No. 1,374,501; Apr. 12; v. 285; p. 258.
Advertising novelty. S. A. Stilwell. No. 1,374,687; Apr. 12; v. 285; p. 295.
Aerator and cooler, Milk. C. W. Mackenzie. No. 1,374,309; Apr. 12; v. 285; p. 221.
Aerial-lifting device. C. H. Van Asperen. No. 1,374,256; Apr. 12; v. 285; p. 210.
Aerocycle. W. Everson. No. 1,374,143; Apr. 5; v. 285; p. 148.
Aerofoil. M. F. Huxley. No. 1,376,337; Apr. 26; v. 285; p. 705.
Aeroplane. D. Amici. No. 1,373,934; Apr. 5; v. 285; p. 108.
Aeroplane. H. Bossart. No. 1,376,000; Apr. 26; v. 285; p. 640.
Aeroplane. F. J. Jurek. No. 1,375,297; Apr. 19; v. 285; p. 474.
Aeroplane. J. Ziegler. No. 1,376,305; Apr. 26; v. 285; p. 699.
Aeroplane. J. Ziegler. No. 1,376,306; Apr. 26; v. 285; p. 699.
Aeroplane control. P. G. Zimmermann. No. 1,375,199; Apr. 19; v. 285; p. 455.
Aeroplane-engines, Apparatus for regulating the effective surface of the radiators of. J. J. M. A. E. Schneider. No. 1,374,610; Apr. 12; v. 285; p. 280.
Aeroplane structure. T. N. Wilson. No. 1,374,700; Apr. 12; v. 285; p. 297.
Aeroplanes, Tail-piece for. P. J. R. Postel-Vinay. No. 1,373,759; Apr. 5; v. 285; p. 73.
Agitator. I. S. Merrell. No. 1,375,406; Apr. 19; v. 285; p. 495.
Agricultural implement. J. M. Bowen. No. 1,373,858; Apr. 5; v. 285; p. 93.
Agricultural implement. J. Mader. No. 1,375,854; Apr. 26; v. 285; p. 612.
Agricultural implement. I. T. Ullrich. No. 1,376,236; Apr. 26; v. 285; p. 685.
Air, Apparatus for storage of compressed. P. H. Quigley. No. 1,376,359; Apr. 26; v. 285; p. 709.
Air-conditioning process and apparatus. A. P. Torrey. No. 1,374,689; Apr. 12; v. 285; p. 295.
Air-filtering device. G. D. Sherer. No. 1,375,422; Apr. 19; v. 285; p. 498.
Air-lift apparatus. E. M. Rogers. No. 1,374,952; Apr. 19; v. 285; p. 407.
Air-spring. J. J. Isler. No. 1,376,206; Apr. 26; v. 285; p. 679.
Air-strainer, Suction. C. C. Farmer. No. 1,375,498; Apr. 19; v. 285; p. 512.
Aircraft. C. H. Casper. No. 1,373,409; Apr. 5; v. 285; p. 5.
Aircraft. L. V. Johnson. No. 1,374,150; Apr. 5; v. 285; p. 149.
Aircraft-motors, Pertaining to internal-combustion. A. C. E. Rateau. No. 1,375,931; Apr. 26; v. 285; p. 627.
Aircraft, Tail-plane and and the like for. H. Scott-Paine. No. 1,375,421; Apr. 19; v. 285; p. 498.
Airplane-radiator. E. T. Curran. No. 1,374,190; Apr. 12; v. 285; p. 198.
Airplane-velocipede. G. H. Nobbs. No. 1,373,444; Apr. 5; v. 285; p. 18.
Airship. J. G. Ambrose. No. 1,373,697; Apr. 5; v. 285; p. 61.
Airship. D. F. Brown. No. 1,374,487; Apr. 12; v. 285; p. 256.
Airship. R. H. Upson. No. 1,375,242; Apr. 19; v. 285; p. 463.
Alarm: *See*—
Burglar-alarm.
Burglar and fire alarm.
Gas-tank alarm.
Low-liquid alarm.
Obstruction-alarm.
Alarm system, Electric. C. J. Jenne. No. 1,375,516; Apr. 19; v. 285; p. 516.
Albums, Memorandum attachment for. U. V. Garred. No. 1,374,646; Apr. 12; v. 285; p. 287.
Alcohol and ether from admixture with air, Recovery of. E. Bindschedler. No. 1,376,069; Apr. 26; v. 285; p. 654.
Alkaline sulfid, Making. W. H. Landers. No. 1,374,209; Apr. 12; v. 285; p. 202.
Alloy. A. W. Clement. No. 1,375,082; Apr. 19; v. 285; p. 433.
Alloy. A. W. Clement. No. 1,375,083; Apr. 19; v. 285; p. 433.
Alloy, Acid-resisting. A. W. Clement. No. 1,375,081; Apr. 19; v. 285; p. 433.
Alloy, Acid-resisting. A. W. Clement. No. 1,375,672; Apr. 26; v. 285; p. 578.
Alloy, Electrical-resistance. F. F. Hansen. No. 1,375,454; Apr. 19; v. 285; p. 504.
Alloy for electrical resistance. F. F. Hansen. No. 1,375,455; Apr. 19; v. 285; p. 504.
Alloy, Metal. T. Albrecht, R. Peretto, and J. F. Wandersee. No. 1,376,062; Apr. 26; v. 285; p. 652.
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Ammonia and tar recovery. J. Becker. No. 1,375,484; Apr. 19; v. 285; p. 509.
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Anode. A. H. Wicks. No. 1,373,693; Apr. 5; v. 285; p. 61.
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Antiskid device. M. F. Schopf and L. J. Christianson. No. 1,375,735; Apr. 26; v. 285; p. 589.
Anthranol, Manufacture of. A. G. Perkin. No. 1,375,972; Apr. 26; v. 285; p. 635.
Anthraquinone, Producing. C. R. Downs. No. 1,374,721; Apr. 12; v. 285; p. 301.
Appliance for casting metal ingots into molds. H. H. Hosack. No. 1,375,589; Apr. 19; v. 285; p. 529.
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Arc-circuits, Electric-current generator for. J. A. Holifield. No. 1,374,080; Apr. 5; v. 285; p. 136.
Arc-regulator, Automatic. J. E. Soons and H. Robinson. No. 1,374,404; Apr. 12; v. 285; p. 239.
Arch-supporter, Twin-spring. J. H. Wilber. No. 1,375,432; Apr. 19; v. 285; p. 500.
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Arm-rest. T. J. James. No. 1,376,280; Apr. 26; v. 285; p. 694.
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Armature-coils, Machine for forming. F. C. Nickol. No. 1,373,522; Apr. 5; v. 285; p. 28.
Armature insulation. J. F. Cullin. No. 1,375,133; Apr. 19; v. 285; p. 442.
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Armor-piercing projectiles, Cap for. R. A. Hadfield. No. 1,375,452; Apr. 19; v. 285; p. 504.
Armor-plate, Wire-fabric. C. Zeglen. No. 1,376,304; Apr. 26; v. 285; p. 699.
Arsin, phosphin and stibin, Process and apparatus for the electrolytic generation of. H. Blumenberg, Jr. No. 1,375,819; Apr. 26; v. 285; p. 605.
Artillery, Heavy. K. Dougan. No. 1,375,491; Apr. 19; v. 285; p. 511.
Atomizing-burner. H. A. Kunitz. No. 1,373,565; Apr. 5; v. 285; p. 36.
Attachment for internal-combustion motor. J. Shine. No. 1,376,294; Apr. 26; v. 285; p. 697.
Audible signal. A. H. Dodd. No. 1,374,367; Apr. 12; v. 285; p. 232.
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Auto-hood antirattling device. T. J. Martin. No. 1,375,257; Apr. 19; v. 285; p. 466.
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Auto-transporting device. J. M. McDermott. No. 1,375,403; Apr. 19; v. 285; p. 494.
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Automobile apron. G. W. Boynton. No. 1,374,353; Apr. 12; v. 285; p. 229.
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Automobile-bumper. L. Baumgartl. No. 1,374,978; Apr. 19; v. 285; p. 412.
Automobile-bumper. T. I. Duffy. No. 1,373,954; Apr. 5; v. 285; p. 112.
Automobile-bumper. J. H. Tobin. No. 1,376,301; Apr. 26; v. 285; p. 698.
Automobile direction-indicator. C. B. Quarfoot. No. 1,374,470; Apr. 12; v. 285; p. 252.
Automobile-driver's armrest. P. Cofrode. No. 1,374,907; Apr. 19; v. 285; p. 399.
Automobile-fender. G. W. Dodson. No. 1,375,574; Apr. 19; v. 285; p. 527.
Automobile fender and radiator-protector, Combined. O. A. Ross. No. 1,374,304; Apr. 12; v. 285; p. 237.
Automobile-fender brace. J. J. Kuntz. No. 1,375,594; Apr. 19; v. 285; p. 530.
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Automobile-lock. R. J. Hale and W. T. Doyle. No. 1,375,386; Apr. 19; v. 285; p. 491.
Automobile-lock. C. R. Nordin. No. 1,376,221; Apr. 26; v. 285; p. 682.
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Automobile radius-rods, Reinforcing means for. O. E. Watson. No. 1,376,058; Apr. 26; v. 285; p. 651.
Automobile-rim tool, Demountable. O. M. Rice. No. 1,374,031; Apr. 5; v. 285; p. 127.
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Automobile temperature-indicator. H. H. Boyce. No. 1,373,859; Apr. 5; v. 285; p. 93.
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Automobile-wheel attachment. J. S. Martin. No. 1,374,939; Apr. 19; v. 285; p. 405.
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Automobile-wheels, Mud-grip for. V. Mikulecky. No. 1,375,716; Apr. 26; v. 285; p. 586.
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Azo dyestuffs dyeing on mordants. C. Jagerspacher. No. 1,375,701; Apr. 26; v. 285; p. 584.
Backband-hook. A. A. Hopson. No. 1,375,911; Apr. 26; v. 285; p. 623.
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Battery. E. M. Deems and L. W. Willis. No. 1,373,802; Apr. 5; v. 285; p. 82.
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Battery-electrodes, Process and apparatus for making. L. Maisel. No. 1,375,305; Apr. 19; v. 285; p. 476.
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Bearing, Roller-. P. A. E. Armstrong. No. 1,376,310; Apr. 26; v. 285; p. 699.
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Bolt-reclaiming machine. E. L. Dunn. No. 1,374,723; Apr. 12; v. 285; p. 301.
Bomb-dropping system. R. V. Morse. No. 1,374,314; Apr. 12; v. 285; p. 221.
Bonnet. R. F. Hough. No. 1,375,048; Apr. 19; v. 285; p. 427.
Bonnet-fastener. A. S. Ridgeley. No. 1,376,039; Apr. 26; v. 285; p. 647.
Book-filler. A. R. Towers. No. 1,375,742; Apr. 26; v. 285; p. 591.

Book-holder. W. R. Handley. No. 1,376,272; Apr. 26; v. 285; p. 692.
Books, Covering for. W. H. Edwards. No. 1,375,040; Apr. 19; v. 285; p. 425.
Bookbinding. O. Lütolf. No. 1,374,305; Apr. 12; v. 285; p. 220.
Bookcase and magazine-holder. W. C. Wilson. No. 1,374,269; Apr. 12; v. 285; p. 213.
Bookstand. E. Mayhew. No. 1,376,212; Apr. 26; v. 285; p. 681.
Boot and shoe insole. F. E. Rice and W. A. Rush. No. 1,374,030; Apr. 5; v. 285; p. 125.
Boot and shoe, Vulcanized. L. A. Trull. No. 1,374,480; Apr. 12; v. 285; p. 254.
Boots or shoes, Box for the toe portions of. R. W. Bierer. No. 1,373,855; Apr. 5; v. 285; p. 92.
Booth. P. M. Busick. No. 1,375,557; Apr. 19; v. 285; p. 523.
Boring-machine. P. Bosch. No. 1,373,856; Apr. 5; v. 285; p. 92.
Boring machine, Earth-. W. E. Moore. No. 1,375,640; Apr. 19; v. 285; p. 539.
Bottle, Nursing-. L. T. La Paugh. No. 1,375,917; Apr. 26; v. 285; p. 624.
Bottle-stopper. A. G. Sherman. No. 1,375,471; Apr. 19; v. 285; p. 507.
Bottle-stopper. L. F. Watkins and G. W. Wilton. No. 1,375,030; Apr. 19; v 285; p. 423.
Bottle top, Milk-. A. Cuomo. No. 1,374,719; Apr. 12; v. 285; p. 300.
Bottle, Water-. W. H. Miller. No. 1,374,088; Apr. 5; v. 285; p. 138.
Bottles, Apparatus for inverting. R. H. Dyer. No. 1,373,604; Apr. 5; v. 285; p. 44.
Bottles, Frame for nursing-. L. T. La Paugh. No. 1,374,667; Apr. 12; v. 285; p. 291.
Bottling-machines, Dispensing-nozzle for. W. M. Fowler. No. 1,376,088; Apr. 26; v. 285; p. 657.
Bowl, Serving-. P. W. Luddy. No. 1,375,401; Apr. 19; v. 285; p. 494.
Bowling mechanism, Automatic. O. J. Fairchild. No. 1,375,835; Apr. 26; v. 285; p. 608.
Box: *See*—
Berry-box. Folding box.
Collapsible box. Railway journal-box.
Fare-box. Resistance-box.
Flower-box. Sound-box.
Box and attachment therefor. E. C. J. Lloyd. No. 1,373,622; Apr. 5; v. 285; p. 47.
Box construction. J. R. Pearsall. No. 1,376,036; Apr. 26; v. 285; p. 647.
Box-forming machine. C. L. Brown. No. 1,375,275; Apr. 19; v. 285; p. 470.
Box-holder. W. C. O'Kane. No. 1,375,856; Apr. 26; v. 285; p. 612.
Box-making machine. H. J. Sauvage. No. 1,376,361; Apr. 26; v. 285; p. 709.
Box-stitching machine. C. C. Mengel. No. 1,373,753; Apr. 5; v. 285; p. 72.
Boxes, Bottom for soap-. D. E. Williamson. No. 1,376,239; Apr. 26; v. 285; p. 686.
Boxes, Unloading device for header-. F. Toepfer. No. 1,373,987; Apr. 5; v. 285; p. 119.
Brace: *See*—
Radius-rod brace.
Bracket: *See*—
Automobile-bracket. Shade-bracket.
Curtain-pole bracket. Temple-roll bracket.
Scaffold-bracket. Window-bracket.
Bracket. E. G. Baer. No. 1,375,888; Apr. 26; v. 285; p. 619.
Brake: *See*—
Railway-brake. Vehicle-brake.
Truck-brake.
Brake-handle. N. Krohn. No. 1,375,709; Apr. 26; v. 285; p. 585.
Brake-rod jaw. S. H. Campbell. No. 1,375,361; Apr. 19; v. 285; p. 480.
Brake-rods, Safety-hanger for. J. J. Tatum. No. 1,373,575; Apr. 5; v. 285; p. 38.
Brake-shoe. J. S. Thompson. No. 1,373,538; Apr. 5; v. 285; p. 31.
Brake-shoe. J. S. Thompson. No. 1,373,539; Apr. 5; v. 285; p. 31.
Brake-shoe Inserts, Molding. H. Jones. No. 1,375,702; Apr. 26; v. 285; p. 584.
Brake staves and wheels, Attachment-lever for. H. C. Stokes. No. 1,375,238; Apr. 19; v. 285; p. 463.
Braking, Regenerative. G. H. Hill. (Reissue.) No. 15,094; Apr. 26; v. 285; p. 715.
Brass scrap, Treating. O. C. Ralston. No. 1,375,930; Apr. 26; v. 285; p. 627.
Breakwater and pier and making same. A. C. Rush. No. 1,375,232; Apr. 19; v. 285; p. 462.
Brick-kiln. F. Munhollon. No. 1,375,719; Apr. 26; v. 285; p. 587.
Brick, Refractory. C. W. Berry. No. 1,373,854; Apr. 5; v. 285; p. 92.
Bricks, Handling. J. B. Ladd. No. 1,373,513; Apr. 5; v. 285; p. 27.
Brickmaking apparatus. M. P. Andrews. No. 1,374,173; Apr. 12; v. 285; p. 195.
Bridle-bit. J. G. Wright. No. 1,375,197; Apr. 19; v. 285; p. 455.
Briquets, Machine for making. C. D. Jenkins. No. 1,376,096; Apr. 26; v. 285; p. 659.
Brooch. F. H. Horton. No. 1,375,097; Apr. 19; v. 285; p. 436.
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Brush. C. E. Cazel and J. W. Le Craw. No. 1,374,820; Apr. 12; v. 285; p. 320.
Brush. E. A. Dennin. No. 1,375,681; Apr. 26; v. 285; p. 580.
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Brush and manufacturing the same. H. H. Wikle. No. 1,375,879; Apr. 26; v. 285; p. 617.
Brush, Electromedical. H. Weiss. No. 1,374,414; Apr. 12; v. 285; p. 241.
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Brush, Fountain lather-. F. McLaughlin. No. 1,375,404; Apr. 19; v. 285; p. 494.
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Brush, Germicide-. D. N. E. Campbell. No. 1,375,560; Apr. 19; v. 285; p. 524.
Brush-holder. H. K. Sandell. No. 1,376,041; Apr. 26; v. 285; p. 648.
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Brush, Power-driven shoe-shine. H. A. Bohlman. No. 1,374,181; Apr. 12; v. 285; p. 197.
Brush, Rotary surface-. M. C. Shinn. No. 1,374,476; Apr. 12; v. 285; p. 254.
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Buffing or polishing wheel. A. Levett. No. 1,374,018; Apr. 5; v. 285; p. 124.
Builder-motion. J. Jeffers. No. 1,373,508; Apr. 5; v. 285; p. 25.
Building-blocks, Method of and apparatus for making. A. M. Zottoli. No. 1,374,270; Apr. 12; v. 285; p. 213.
Building construction. L. L. Eldridge. No. 1,375,055; Apr. 26; v. 285; p. 632.
Building, Sectional. C. F. and D. E. McAvoy. No. 1,375,402; Apr. 19; v. 285; p. 494.
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Electric burner. Liquid-fuel burner.
Lamp-burner. Oil-burner.
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Button, Collar-. S. Butterworth. No. 1,374,355; Apr. 12; v. 285; p. 229.
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Button, Pin-on. A. C. Rovelli. No. 1,375,231; Apr. 19; v. 285; p. 462.
Button-setting machine. A. F. Cook and L. R. Reed. No. 1,374,360; Apr. 12; v. 285; p. 230.
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Cabinet. W. H. Friedline. No. 1,376,266; Apr. 26; v. 285; p. 691.
Cabinet, Commodity-. J. H. Boye. No. 1,374,549; Apr. 12; v. 285; p. 268.
Cabinet, Cooking-. A. E. Guidel. No. 1,375,148; Apr. 19; v. 285; p. 446.
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Cabinet, Salt-vapor. H. J. Nullett. No. 1,375,602; Apr. 19; v. 285; p. 582.
Cabinet, Selective roller filing-. W. F. Drew. No. 1,375,493; Apr. 19; v. 285; p. 511.
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Cable suspension-clamp. W. A. Graham. No. 1,373,421; Apr. 5; v. 285; p. 8.
Cable, Device for cutting wire. J. G. Burch. No. 1,374,278; Apr. 12; v. 285; p. 215.
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Calculating-machine. A. F. Poole. No. 1,374,762; Apr. 12; v. 285; p. 308.
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Calendar and card hanging device. O. Regen and J. Castelle. No. 1,376,116; Apr. 26; v. 285; p. 663.
Calendar, Memorandum-. H. A. Schramm and J. D. Hawkins. No. 1,374,239; Apr. 12; v. 285; p. 207.
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Camera, Autographic. J. P. Bethke. No. 1,375,816; Apr. 26; v. 285; p. 604.
Camera-case. G. L. Osgood. No. 1,374,949; Apr. 19; v. 285; p. 406.
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Camp-table, Folding. F. J. Lozon. No. 1,373,665; Apr. 5; v. 285; p. 55.
Can: *See*—
Collapsible can. Oil-can.
Can. G. T. Reichenbach. No. 1,374,389; Apr. 12; v. 285; p. 236.
Can cover, Milk-. J. F. Hamilton. No. 1,374,732; Apr. 12; v. 285; p. 303.
Can-feeding mechanism. P. W. Fleischer. No. 1,375,371; Apr. 19; v. 285; p. 488.
Can-handling mechanism. S. Eberly. No. 1,373,605; Apr. 5; v. 285; p. 44.
Can-jacket. W. A. West. No. 1,375,480; Apr. 19; v. 285; p. 509.
Can-opener. R. H. Wolfe. No. 1,374,702; Apr. 12; v. 285; p. 297.
Can opener and sanitary sealer, Combined. C. A. Lowe. No. 1,374,019; Apr. 5; v. 285; p. 125.
Can-opener, Convertible. W. H. Roach. No. 1,374,032; Apr. 5; v. 285; p. 127.
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Cans, Drying. F. G. Foss. No. 1,375,373; Apr. 19; v. 285; p. 488.
Cane-mill. J. L. Stanaland. No. 1,373,680; Apr. 5; v. 285; p. 58.
Cane or stick, Combination duplicate or single. J. T. Huddle. No. 1,375,912; Apr. 26; v. 285; p. 623.
Cap and socket, Combination. R. B. Benjamin. No. 1,376,068; Apr. 26; v. 285; p. 654.
Car construction, Concrete. E. J. Putnam. No. 1,374,111; Apr. 5; v. 285; p. 142.
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Car construction, Steel. T. Elliott. No. 1,375,787; Apr. 26; v. 285; p. 599.
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Car-door fastening and releasing device. M. J. Neumann and J. C. Mather. No. 1,376,350; Apr. 26; v. 285; p. 707.
Car-door, Flush. J. P. Gallagher. No. 1,375,689; Apr 26; v. 285; p. 581.
Car door, Grain-. T. Gibson. No. 1,374,073; Apr. 5; v. 285; p. 135.
Car-door-operating mechanisms, Safety device for. J. F. O'Connor. No. 1,374,673; Apr. 12; v. 285; p. 292.
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Car-doors, Handle for. C. H. Jordan. No. 1,374,302; Apr. 12; v. 285; p. 219.
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Car, Dump-. R. E. Cartzdafner. No. 1,375,564; Apr. 19; v. 285; p. 524.
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Car, Self-propelled motor-. A. F. Batchelder. No. 1,375,995; Apr. 26; v. 285; p. 639.
Car-step, Auxiliary. H. L. Clapp. No. 1,373,995; Apr. 5; v. 285; p. 121.
Car-truck. J. C. Whitridge. No. 1,374,620; Apr. 12; v. 285; p. 281.
Car-wall construction, Railway-. C. D. Bonsall. No. 1,374,421; Apr. 12; v. 285; p. 243.
Car-wheel, Roller-bearing. W. B. Bridges. No. 1,375,554; Apr. 19; v. 285; p. 523.
Cars, Accelerating device for motor-. F. J. Young. No. 1,375,436; Apr. 19; v. 285; p. 501.
Cars and other vehicles, Device for controlling from a distance the windows of motor-. P. Seurin. No. 1,375,612; Apr. 19; v. 285; p. 534.
Cars, automobiles and other vehicles, Automatic life and limb saving device for street-. W. S. Gregory. No. 1,376,200; Apr. 26; v. 285; p. 678.
Cars, Bumper for motor-. R. S. Whitney. No. 1,375,244; Apr. 19; v. 285; p. 464.
Cars, Combined electric and pneumatic system for. H. A. Benedict. No. 1,373,400; Apr. 5; v. 285; p. 4.
Cars, Conveyer device for loading flour into. H. O. Harding. No. 1,373,659; Apr. 5; v. 285; p. 54.
Cars, Danger-signal for railway-. D. H. McGogy. No. 1,374,936; Apr. 19; v. 285; p. 404.
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Cars, Door-operating device for hopper-. S. G. Stevens. No. 1,374,246; Apr. 12; v. 285; p. 209.
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Cars, Shock-absorber for dump-. R. E. Cartzdafner. No. 1,375,563; Apr. 19; v. 285; p. 524.
Cars, Unloading attachment for. C. D. Mack. No. 1,373,623; Apr. 5; v. 285; p. 47.
Carbids and derivatives thereof, Process and apparatus for the manufacture of. F. E. Norton. No. 1,374,317; Apr. 12; v. 285; p. 222.
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Carbon-remover. C. B. Olson. No. 1,374,519; Apr. 12; v. 285; p. 262.
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Carbonated liquids, Apparatus for bottling. D. Humphrey. No. 1,373,817; Apr. 5; v. 285; p. 85.
Carbonating apparatus, Liquid-. M. S. Kimbul. No. 1,373,892; Apr. 5; v. 285; p. 100.
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Carbureter. W. A. Edwards. No. 1,375,684; Apr. 26; v. 285; p. 580.
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Carbureter control. W. D. Warner. No. 1,373,469; Apr. 5; v. 285; p. 17.
Carbureters, Air-valve for. P. A. Anderson. No. 1,376,063; Apr. 26; v. 285; p. 652.
Carbureters, Fuel-control valve for. V. E. Wasserlein. No. 1,374,262; Apr. 12; v. 285; p. 212.
Carbureters, Lock-control fuel-feed for. A. R. Wicker. No. 1,374,621; Apr. 12; v. 285; p. 282.
Card and producing the same, Ornamental. P. J. Osborne. No. 1,374,764; Apr. 12; v. 285; p. 309.
Card-distributing machine. A. S. Trew. No. 1,375,341; Apr. 19; v. 285; p. 463.
Card-holder. F. J. Peterson. No. 1,374,863; Apr. 12; v. 285; p. 328.
Carriage, Baby-. G. H. Smith. No. 1,375,614; Apr. 19; v. 285; p. 534.
Carrier: *See*—
Adjustable luggage-carrier.
Bicycle luggage-carrier.
Cartridge-carrier.
Casket-carrier.
Ice-carrier.
Luggage-carrier.
Milk-bottle carrier.
Tire-carrier.
Trace-carrier.
Woven pocket carrier.
Woven pocketed carrier.
Carrier. L. L. Freund. No. 1,374,372; Apr. 12; v. 285; p. 233.
Carrier. A. L. Williams. No. 1,376,370; Apr. 26; v. 285; p. 711.
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Carton, End-opening. A. Schneider. No. 1,374,956; Apr. 19; v. 285; p. 408.
Cartridge-belt clamp. J. S. Peoples. No. 1,376,354; Apr. 26; v. 285; p. 708.
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Blow-case.
Camera-case.
Sanitary case.
Shipping-case.
Show-case.
Ticket-case.
Watch-movement case.
Cash-recording device. W. L. Deming. No. 1,375,490; Apr. 19; v. 285; p. 511.
Casket-carrier. C. F. Pettkoske. No. 1,374,320; Apr. 12; v. 285; p. 223.
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Caster. J. A. Gamble. No. 1,375,379; Apr. 19; v. 285; p. 489.
Caster, Adjustable. C. W. Ostrander. No. 1,375,536; Apr. 19; v. 285; p. 519.
Caster, Ball-. T. Kelly. No. 1,375,394; Apr. 19; v. 285; p. 492.
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Casting-machine. J. E. Burns. No. 1,373,794; Apr. 5; v. 285; p. 80.
Catalysis. E. W. Stevens. No. 1,374,119; Apr. 5; v. 285; p. 144.
Catalytic material, Making. S. Drucker and W. Sieck, Jr. No. 1,375,368; Apr. 19; v. 285; p. 487.
Catalytic oxidation of fluorene. J. M. Weiss and C. R. Downs. No. 1,374,695; Apr. 12; v. 285; p. 296.
Catalytic oxidation of naphthalene. C. R. Downs. No. 1,374,722; Apr. 12; v. 285; p. 301.
Catalyzers, Producing. A. A. Backhaus. No. 1,375,345; Apr. 19; v. 285; p. 483.
Catapult. C. H. Napier. No. 1,374,757; Apr. 12; v. 285; p. 307.
Cellular forms, Apparatus for assembling. P. Kucera. No. 1,374,454; Apr. 12; v. 285; p. 249.
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Cement and making same, Adhesive. T. Edwards. No. 1,374,992; Apr. 19; v. 285; p. 415.
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Centrifugal separation, Method of and machinery for. W. H. Peck. No. 1,374,098; Apr. 5; v. 285; p. 140.
Centrifugal separator. E. D. Gray. No. 1,375,506; Apr. 19; v. 285; p. 514.
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Chain adapted as link-bracelet. T. Allsopp. No. 1,373,395; Apr. 5; v. 285; p. 3.
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Chain, Cutting-. F. Smith. No. 1,376,120; Apr. 26; v. 285; p. 663.
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Bath-chair.
Collapsible chair.
Desk-chair.
Folding chair.
Chair. E. Thompson. No. 1,375,868; Apr. 26; v. 285; p. 614.
Chair. R. Wagner. No. 1,375,337; Apr. 19; v. 285; p. 482.
Chair attachment. L. D. Dennis. No. 1,375,573; Apr. 19; v. 285; p. 526.
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Chairs, Wardrobe attachment for. A. C. Heaphy. No. 1,375,047; Apr. 19; v. 285; p. 426.
Chamber-head. C. S. Chrisman. No. 1,374,490; Apr. 12; v. 285; p. 256.
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Chart, Advertising-. J. P. Day. No. 1,374,365; Apr. 12; v. 285; p. 231.
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Chessboard and the like, Revolving. G. L. T. Dennisa. No. 1,374,139; Apr. 5; v. 285; p. 147.
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Chocolate-cooling machine H. C. Gates. No. 1,375,380; Apr. 19; v. 285; p. 400.
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Cotton-chopper.
Food-chopper.
Chuck. E. A. Chase. No. 1,375,777; Apr. 26; v. 285; p. 597.
Chuck or holder. F. E. Shailor. No. 1,374,399; Apr. 12; v. 285; p. 238.
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Cigar-perforator. P. J. Hentschel. No. 1,376,335; Apr. 26; v. 285; p. 705.
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Cable suspension-clamp.
Cartridge-belt clamp.
Dog-clamp.
Engine-support clamp.
Hose-clamp.
Ladder-clamp.
Machine-clamp.
Rail-clamp.
Repair-clamp.
Robe-clamp.
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Clamp. A. C. Felton. No. 1,375,686; Apr. 26; v. 285; p. 581.
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Garter-clasp.
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Grain-cleaner.
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Clip. G. V. Curtis. No. 1,374,882; Apr. 12; v. 285; p. 332.
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Collar holder, Soft-. A. H. Metcalf. No. 1,374,312; Apr. 12; v. 285; p. 221.
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Cooler. W. Clayton and G. Nodder. No. 1,375,210; Apr. 19; v. 285; p. 457.
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Copy-holder. A. Restrepo. No. 1,375,731; Apr. 26; v. 285; p. 589.
Core and mold therefor, Expansible. B. Darrow. No. 1,375,214; Apr. 19; v. 285; p. 458.
Core-forming device. R. P. Viar. No. 1,373,578; Apr. 5; v. 285; p. 39.
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Cable-coupling. Spindle-coupling.
Inflating-coupling. Truck-coupling.
Pipe or hose coupling. Valvular coupling.
Rope-coupling.
Coupling. C. A. Borgeson. No. 1,375,822; Apr. 26; v. 285; p. 605.
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Cow-halter. S. A. Schneider and A. R. Meyer. No. 1,375,184; Apr. 19; v. 285; p. 453.
Cradle, Automatic rocking. A. J. Lawson. No. 1,374,507; Apr. 12; v. 285; p. 259.
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Multicylinder explosive-engine. tion engine.
Engine. C. H. Frost. No. 1,376,267; Apr. 26; v. 285; p. 691.
Engine. W. J. Hunter. No. 1,375,514; Apr. 19; v. 285; p. 515.
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Engines, Primer and humidifier for internal-combustion. C. C. Eckhardt. No. 1,375,496; Apr. 19; v. 285; p. 512.
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Envelop-machine. T. Umeda. No. 1,375,618; Apr. 19; v. 285; p. 535.
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Erasers, Machine for cleaning blackboard-. J. K. Russell. No. 1,375,642; Apr. 19; v. 285; p. 540.
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Explosive-motors, Means for supplying liquid fuel to. J. P. Remington. No. 1,373,912; Apr. 5; v. 285; p. 104.
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Extraction of values from highly-dilute solutions. M. L. E. Baudin. No. 1,375,441; Apr. 19; v. 285; p. 502.
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Fabrics suitable for the manufacturing of ceiling lath-work, baskets, receptacles, &c., Apparatus for the transformation of reeds into woven. P. de Guardia-Calmètes. No. 1,373,721; Apr. 5; v. 285; p. 66.
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Car-fender. Vehicle-fender.
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Ferrotitanium, Producing low-carbon. H. C. Sicard. No. 1,374,036; Apr. 5; v. 285; p. 128.

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Firebox, Smoke and gas burning. C. E. Betcher. No. 1,373,479; Apr. 5; v. 285; p. 20.
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Flotation apparatus. W. E. Greenawalt. No. 1,374,499; Apr. 12; v. 285; p. 258.
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Fluid-regulating device, Automatic. W. E. Brown. No. 1,375,555; Apr. 19; v. 285; p. 523.
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Food, Infant. F. H. Borcherdt. No. 1,375,893; Apr. 26; v. 285; p. 620.
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Forgings, Method of and die for producing. C. G. Helby, C. A. Hill, and D. E. Lindquist. No. 1,373,726; Apr. 5; v. 285; p. 67.
Forgings, Producing. C. G. Helby, J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau. No. 1,373,725; Apr. 5; v. 285; p. 66.
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Auto-top window-frame.
Metal window-frame.
Shutter-frame.
Traveling bleaching-frame.
Trial-frame.
Warp-stop-motion frame.
Frame. T. W. O'Connor. No. 1,376,222; Apr. 26; v. 285; p. 682.
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Friction-drums, Roller thrust-bearing for. J. N. Wisdom. No. 1,373,929; Apr. 5; v. 285; p. 108.
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Fruit gager and gatherer. C. B. Hysom. No. 1,376,338; Apr. 26; v. 285; p. 705.
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Fruit-pits and their kernels, Separating. S. Hillier. No. 1,374,657; Apr. 12; v. 285; p. 289.
Fuel and producing same. L. W. Bates. No. 1,375,811; Apr. 26; v. 285; p. 603.
Fuel, Burner for fluid. A. L. Wilson. No. 1,375,948; Apr. 26; v. 285; p. 630.
Fuel, Means for and method of igniting. R. F. Ensign. No. 1,376,194; Apr. 26; v. 285; p. 677.
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Funeral and burial apparatus. R. F. McCampbell, G. H. Scott, and G. Q. Smith. No. 1,375,793; Apr. 26; v. 285; p. 600.
Fungicide and insecticide and producing same. D. S. Pratt. No. 1,374,951; Apr. 19; v. 285; p. 407.
Funnel, Collapsible. E. E. Gustafson. No. 1,373,722; Apr. 5; v. 285; p. 66.
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Carbonizing-furnace.
Coal-dust furnace.
Electric furnace.
Gas-furnace.
Heating-furnace.
Liquid-fuel-burning furnace.
Melting-furnace.
Metallurgical furnace.
Puddling-furnace.
Stoker-furnace.

Furnace. W. K. Booth. No. 1,376,071; Apr. 26; v. 285; p. 654.
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Furnaces, Auxiliary heater for. O. J. Kuenhold. No. 1,375,848; Apr. 26; v. 285; p. 611.
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Furniture, Combination. A. Danciewicz and W. R. Whitaker. No. 1,375,570; Apr. 19; v. 285; p. 526.
Furniture construction, Metal. H. E. White and H. F. Philbin. No. 1,374,868; Apr. 12; v. 285; p. 329.
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Fuse-plug. R. B. Benjamin. No. 1,374,349; Apr. 12; v. 285; p. 228.
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Boiler-gage.
Butter-fat gage.
Crosscut-saw gage.
Liquid-gage.
Liquid-level gage.
Pressure-gage.
Pressure-relation gage.
Raker-gage.
Rivet-gage.
Saw-table gage.
Tool-sharpening gage.
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Game. T. H. and G. L. Schror. No. 1,375,262; Apr. 19; v. 285; p. 467.
Game. C. E. and A. P. Silkworth. No. 1,373,679; Apr. 5; v. 285; p. 58.
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Gas and oil vending device. H. B. McRee. No. 1,375,526; Apr. 19; v. 285; p. 518.
Gas, Apparatus for analyzing. O. Rodhe. No. 1,374,391; Apr. 12; v. 285; p. 237.
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Gas-engine cut-out muffler. H. M. Wright, Jr. No. 1,375,621; Apr. 19; v. 285; p. 535.
Gas-engine manifold. J. W. Stirton. No. 1,373,459; Apr. 5; v. 285; p. 15.
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Gases, Apparatus for treating liquids with. W. E. Greenawalt. No. 1,374,446; Apr. 12; v. 285; p. 248.
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Gasolene from crude oils, Production of. P. Danckwardt. No. 1,373,653; Apr. 5; v 285; p. 52.
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Self-latching gate.
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Gear-cutting machine. W. C. Farnum. No. 1,373,957; Apr. 5; v. 285; p. 113.
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Gears, Attachment for cutting teeth of bevel-. W. C. Farnum. No. 1,373,958; Apr. 5; v. 285; p. 113.
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Electric gas-generator.
Gas-generator.
High-frequency generator.
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Generator and burner, Gas. G. L. N. Johnson. No. 1,373,616; Apr. 5; v. 285; p. 46.
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Glass-grinding machine. E. A. Ryon. No. 1,373,836; Apr. 5; v. 285; p. 89.
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Glue, Manufacture of substances precipitating. A. Römer. No. 1,375,976; Apr. 26; v. 285; p. 635.
Gold and other precious metals, Receptacle and separator for particles of. R. C. Graham. No. 1,374,075; Apr. 5; v. 285; p. 135.
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Grain and the like, Machine for shelling and polishing. L. Kaspar. No. 1,375,592; Apr. 19; v. 285; p. 530.
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Grain-sheaf shocker. J. P. Hiebert. No. 1,373,727; Apr. 5; v. 285; p. 67.
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Graphophones, Time-controlled mechanism for. J. Cola. No. 1,375,279; Apr. 19; v. 285; p. 471.
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Grinding formed cutters, Machine for. W. O. Barnes. No. 1,373,587; Apr. 5; v. 285; p. 40.
Grinding-mill. A. E. Jacobson. No. 1,374,207; Apr. 12; v. 285; p. 201.
Grinding-wheels, Mounting means for. W. H. Sumbling. No. 1,374,334; Apr. 12; v. 285; p. 225.
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Grindstones, Apparatus for dressing. R. R. Roberts. No. 1,373,833; Apr. 5; v. 285; p. 88.
Gripper, Auxiliary. C. G. Cope. No. 1,373,868; Apr. 5; v. 285; p. 95.
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Gromet making and setting machine. J. L. Stuart. No. 1,373,462; Apr. 5; v. 285; p. 16.
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Gromets and eyelets, Die for setting. J. L. Stuart. No. 1,373,461; Apr. 5; v. 285; p. 16.
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Gun-sight. H. R. Frensdorf. No. 1,376,089; Apr. 26; v. 285; p. 657.
Gun, Takedown. T. C. Johnson. No. 1,373,888; Apr. 5; v. 285; p. 99.
Guns, Apparatus for training troops in pointing. O. Place. No. 1,376,357; Apr. 26; v. 285; p. 709.
Guns, Fire-control apparatus for naval. W. Akemann. No. 1,373,793; Apr. 5; v. 285; p. 80.
Guns, Fire-control apparatus particularly intended for naval. H. Sundhaussen. No. 1,375,264; Apr. 19; v. 285; p. 467.
Guns or the like, Control means for. S. A. Farrell. No. 1,374,144; Apr. 5; v. 285; p. 148.
Guns, Single-trigger mechanism for double-barrel. C. W. Lindsay. No. 1,375,710; Apr. 26; v. 285; p. 585.
Guns, Trigger and sear mechanism for machine-. E. Fowler. No. 1,375,451; Apr. 19; v. 285; p. 504.
Gyroscopes, Testing-stand for. E. Meitner. No. 1,374,162; Apr. 5; v. 285; p. 151.
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Hair-crimper. M. Grable. No. 1,375,504; Apr. 19; v. 285; p. 513.
Hair-curler. O. D. McClintock. No. 1,373,968; Apr. 5; v. 285; p. 115.
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Hairpin. G. W. Weber. No. 1,374,264; Apr. 12; v. 285; p. 212.
Half-tone screen. C. L. A. Brasseur. No. 1,374,813; Apr. 12; v. 285; p. 318.
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Hammer-testing machine. T. Olsen. No. 1,375,604; Apr. 19; v. 285; p. 532.
Hand, Artificial. R. F. Armstrong. No. 1,375,809; Apr. 26; v. 285; p. 603.
Hand-grasp. E. Willett. No. 1,376,126; Apr. 26; v. 285; p. 665.
Handbag-handle. H. E. Walter. No. 1,374,126; Apr. 5; v. 285; p. 145.
Handbags or vanity-cases, Fastening device for ladies'. S. W. Shepard. No. 1,375,114; Apr. 19; v. 285; p. 439.
Handhold-hanger. H. G. Lewis and W. S. Mayer. No. 1,373,746; Apr. 5; v. 285; p. 70.
Handle: *See*—
Brake-handle.
Casket-handle.
File-handle.
Handbag-handle.
Pressed-steel ball crank-handle.
Tool-handle.
Valve-handle.
Handle. H. G. Thompson. No. 1,374,251; Apr. 12; v. 285; p. 209.
Handle and blade connection. J. S. Surbaugh. No. 1,374,336; Apr. 12; v. 285; p. 226.
Handling apparatus, Automatically-operating mechanical. A. G. Clapier. No. 1,376,317; Apr. 26; v. 285; p. 701.
Hanger: *See*—
Clothes-hanger.
Concrete-construction hanger.
Garment-hanger.
Handhold-hanger.
Shaft-hanger.
Skirt-hanger.
Sliding-door hanger.
Trolley-hanger.
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Harrow with cleaning attachment. G. Borstad. No. 1,373,946; Apr. 5; v. 285; p. 111.
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Harvester, Peanut-. S. C. May. No. 1,375,258; Apr. 19; v. 285; p. 466.
Harvester, Power-driven stripper or header. J. O. Brook. No. 1,374,424; Apr. 12; v. 285; p. 243.
Harvesting machine, Pea-vine-. P. A. and A. Reinbold. No. 1,373,832; Apr. 5; v. 285; p. 88.
Harvesting machine, Peanut-. J. P. Fields. No. 1,375,578; Apr. 19; v. 285; p. 527.
Harvesting-machinery, Hitch for. M. O. Henderson. No. 1,375,963; Apr. 26; v. 285; p. 633.
Hat-clipping machines, Attachment for. J. S. Leibowitz. No. 1,375,597; Apr. 19; v. 285; p. 531.
Hat-lining. B. Harowitz. No. 1,374,737; Apr. 12; v. 285; p. 304.
Hat-protector. J. F. Schweizer-Caillaux. No. 1,373,713; Apr. 5; v. 285; p. 64.
Hat protector and envelop, Combined. F. W. Howard and G. B. Cannon, Jr. No. 1,375,511; Apr. 19; v. 285; p. 515.
Hay-fork-track openings, Closure for. J. H. Johnson. No. 1,375,391; Apr. 19; v. 285; p. 492.
Head and valve-housing, Multiple. P. W. Murphy. No. 1,374,315; Apr. 12; v. 285; p. 221.
Head-protector. C. Horan. No. 1,375,845; Apr. 26; v. 285; p. 610.
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Headlight, Dirigible. J. J. Bavor. No. 1,373,706; Apr. 5; v. 285; p. 63.
Headlight, Dirigible. W. B. Duerst. No. 1,375,138; Apr. 19; v. 285; p. 444.
Headlight for vehicles. C. D. Williams. No. 1,374,344; Apr. 12; v. 285; p. 227.
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Headlight-screen, Controllable. W. A. Schroeder. (Reissue.) No. 15,088; Apr. 12; v. 285; p. 336.
Headlights, Controlling device for. G. F. Pennington. No. 1,376,225; Apr. 26; v. 285; p. 683.
Headlights, Dimming device for. W. A. Schroeder. No. 1,376,418; Apr. 19; v. 285; p. 497.
Headlights, Lens for. L. and H. Benzer. No. 1,374,900; Apr. 19; v. 285; p. 398.
Heat-exchanger. C. F. Braun. No. 1,376,135; Apr. 26; v. 285; p. 666.
Heat-regulating system. B. P. Hermes. No. 1,375,458; Apr. 19; v. 285; p. 505.
Heat-treating structural members, Method of and apparatus for. A. S. and H. P. Macdonald. No. 1,376,106; Apr. 26; v. 285; p. 661.
Heated vapor to internal-combustion engines, Device for supplying. B. Douglas. No. 1,373,603; Apr. 5; v. 285; p. 43.
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Electric embossing-plate heater.
Electric rivet-heater.
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Heater. H. S. Dodd. No. 1,375,137; Apr. 19; v. 285; p. 443.
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Heel-fastener. L. Cerf. No. 1,375,671; Apr. 26; v. 285; p. 578.
Heel-fastening device. L. A. Chamberlin. No. 1,375,897; Apr. 26; v. 285; p. 620.
Heels, Machine for trimming the overflow from the breast of rubber. T. E. Kane. No. 1,376,018; Apr. 26; v. 285; p. 644.
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High-frequency generator of the transformer type. C. W. De Mooy. No. 1,376,081; Apr. 26; v. 285; p. 656.
High-frequency machine. C. W. De Mooy. No. 1,376,080; Apr. 26; v. 285; p. 656.
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Hinge. L. S. Crone. No. 1,375,212; Apr. 19; v. 285; p. 458.
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Hoe. L. Jarvis. No. 1,374,740; Apr. 12; v. 285; p. 304.
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Hoe and weeder, Garden. W. G. Anderson. No. 1,374,051; Apr. 5; v. 285; p. 130.
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Hoists, Brake for electric-motor-operated. L. C. Vittorio. No. 1,374,259; Apr. 12; v. 285; p. 211.
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Coupling-hook.
Lock snap-hook.
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Safety coupling-hook.
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Horn-like masses from casein, Apparatus for the manufacture of. A. Bartels. No. 1,375,623; Apr. 19; v. 285; p. 536.
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Hose-clamp. C. E. Ritter. No. 1,373,673; Apr. 5; v. 285; p. 57.
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Ice-cream freezer. E. Blasser. No. 1,374,350; Apr. 12; v. 285; p. 229.
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Automobile temperature-indicator.
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Grade-indicator.
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Paring and pitting knife.
Pitter-knife.
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Lamp, Pocket hand-. J. Graves. No. 1,375,587; Apr. 19; v. 285; p. 529.
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Plate-lifter.
Receptacle-lid lifter.
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Light and similar rays, Apparatus for treating. A. O. Tate. No. 1,374,965; Apr. 19; v. 285; p. 410.
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Bag-lock.
Coin-controlled locker-lock.
Combination-lock.
Joint-lock.
Key-lock.
Nut-lock.
Sash-lock.
Vault-lock.
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Manifold. A. Holmes. No. 1,375,910; Apr. 26; v. 285; p. 623.
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Electric motor.
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Paint composition. W. N. Blakeman, Jr. No. 1,375,355; Apr. 19; v. 285; p. 485.
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Percussive tools, Rotating device for. L. C. Bayles. No. 1,375,444; Apr. 19; v. 285; p. 502.
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Pianos and other purposes, Pedal device for. B. H. Jefferson and W. I. Kirk. No. 1,374,891; Apr. 12; v. 285; p. 333.
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Puller: *See*—
Post-puller. Wheel-puller.
Pulley. H. E. Printz. No. 1,375,607; Apr. 19; v. 285; p. 533.
Pulley construction. L. Rouanet. No. 1,373,675; Apr. 5; v. 285; p. 57.
Pulleys, Air-skimmer for belt-. H. M. Plaisted. No. 1,375,173; Apr. 19; v. 285; p. 450.
Pulp-bleaching apparatus. H. E. Ellis. No. 1,375,285; Apr. 19; v. 285; p. 472.
Pulp, Machine for straightening and sizing tubular bodies made from. H. Parker. No. 1,374,318; Apr. 12; v. 285; p. 222.
Pulp, Manufacture of sulfate. E. Olsson. No. 1,375,759; Apr. 26; v. 285; p. 594.
Pulp-thickener, Centrifugal. J. T. Jaeger. No. 1,374,377; Apr. 12; v. 285; p. 234.
Pulverizer. J. D. Smith. No. 1,375,425; Apr. 19; v. 285; p. 498.
Pulverizer, Soil-. G. W. Oakes. No. 1,374,465; Apr. 12; v. 285, p. 252.
Pump. R. B. Carter. No. 1,374,156; Apr. 5; v. 285; p. 150.
Pump. G. A. Humason. (Reissue.) No. 15,095; Apr. 26; v. 285; p. 715.
Pump, D. Hunt. No. 1,374,923; Apr. 19; v. 285; p. 402.
Pump-actuating mechanism. R. A. Dean. No. 1,375,135; Apr. 19; v. 285; p. 443.
Pump, Advance and retard fuel-oil. W. J. Woodcock. No. 1,375,746; Apr. 26; v. 285; p. 591.
Pump, Air-. P. Kuehn. No. 1,375,160; Apr. 19; v. 285; p. 448.
Pump and operating mechanism, Double-acting. S. T. Brizendine. No. 1,376,315; Apr. 26; v. 285; p. 700.
Pump, Centrifugal. C. V. Kerr. No. 1,374,664; Apr. 12; v. 285; p. 290.
Pump, Changeable centrifugal. I. Kuroishi. No. 1,374,747; Apr. 12; v. 285; p. 306.
Pump, Circulating-. C. A. Grasswick. No. 1,374,884; Apr. 12; v. 285; p. 332.
Pump control. J. F. Gates. No. 1,376,270; Apr. 26; v. 285; p. 692.
Pump, Deep-well. F. M. Budlong. No. 1,373,712; Apr. 5; v. 285; p. 64.
Pump, Direct-driven deep-well. R. Schorr. No. 1,374,116; Apr. 5; v. 285; p. 143.
Pump, Dredge-. A. G. Stenberg. No. 1,374,533; Apr. 12; v. 285; p. 265.

Pump, Suction-. C. W. Bethune. No. 1,374,808; Apr. 12; v. 285; p. 317.
Pump, Vacuum-. S. H. Hall. No. 1,374,650; Apr. 12; v. 285; p. 287.
Pumps and compressors, Power-transmission appliance for. P. J. Rooney. No. 1,373,764; Apr. 5; v. 285; p. 74.
Pumps, Attachment for windmill-operated. W. R. Nicholson. No. 1,374,385; Apr. 12; v. 285; p. 235.
Pumping apparatus. W. S. Barnickel. No. 1,375,200; Apr. 19; v. 285; p. 456.
Puncture-closing composition, Making. C. O. Hopping. No. 1,375,510; Apr. 19; v. 285; p. 515.
Puzzle. I. Giza. No. 1,374,729; Apr. 12; v. 285; p. 302.
Pyrometer, Electric. T. W. Varley. No. 1,375,872; Apr. 26; v. 285; p. 615.
Quartz glass, Making articles of. J. Scharl. No. 1,375,657; Apr. 19; v. 285; p. 542.
Quick-adjusting wrench. W. F. Rotermund. No. 1,373,529; Apr. 5; v. 285; p. 30.
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Can-rack. Reel-fly rack.
Display-rack. Shoe-rack.
Foldable sink-rack.
Rack device. F. Goertz. No. 1,375,840; Apr. 26; v. 285; p. 609.
Radial drill. D. C. Klausmeyer. No. 1,374,581; Apr. 12; v. 285; p. 274.
Radiator. R. and A. Fevola. No. 1,375,500; Apr. 19; v. 285; p. 512.
Radiator. C. McNeely. No. 1,374,021; Apr. 5; v. 285; p. 125.
Radiator. L. Wagenseil. No. 1,376,178; Apr. 26; v. 285; p. 674.
Radiator cover, Automobile-. M. Ziegler. No. 1,375,198; Apr. 19; v. 285; p. 455.
Radiator, Gas-. M. Vasselon. No. 1,375,987; Apr. 26; v. 285; p. 637.
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Radio-receiving system. E. F. W. Alexanderson. No. 1,373,931; Apr. 5; v. 285; p. 108.
Radio-receiving system. E. F. W. Alexanderson. No. 1,375,992; Apr. 26; v. 285; p. 638.
Radiotelephony. C. R. Englund. (Reissue.) No. 15,089; Apr. 19; v. 285; p. 544.
Radiotransmission, Power-modulator for. H. D. Arnold. No. 1,375,481; Apr. 19; v. 285; p. 509.
Radius-rod brace. A. G. Davis. No. 1,374,829; Apr. 12; v. 285; p. 321.
Radius-rod, Safety. B. B. Keller. No. 1,374,016; Apr. 5; v. 285; p. 124.
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Rail-joint-adjusting device. F. V. Carman. No. 1,373,598; Apr. 5; v. 285; p. 42.
Rail-joint and fastener therefor. J. Bakovich. No. 1,374,804; Apr. 12; v. 285; p. 317.
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Rail-joints, Construction for. W. P. Thomson. No. 1,374,782; Apr. 12; v. 285; p. 312.
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Rail, Reversible switch-. R. N. Riblet. No. 1,373,637; Apr. 5; v. 285; p. 50.
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Rails, Connecting. J. C. H. Lubken. No. 1,374,381; Apr. 12; v. 285; p. 234.
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Railway-crossing. C. H. White. No. 1,374,415; Apr. 12; v. 285; p. 242.
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Railway-crossing gates, Signal for. E. O. Noeske. No. 1,374,027; Apr. 5; v. 285; p. 126.
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Railway journal-box. H. C. Stokes. No. 1,375,239; Apr. 19; v. 285; p. 463.
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Railway structure, Pleasure-. J. A. Miller. No. 1,373,754; Apr. 5; v. 285; p. 72.
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Railway-tie. P. S. Rachwal. No. 1,373,831; Apr. 5; v. 285; p. 88.
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Rat-guard. G. J. Hart. No. 1,376,202; Apr. 26; v. 285; p. 678.
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Ratchet socket-wrench. C. O. Tooker. No. 1,373,779; Apr. 5; v. 285; p. 77.
Raw materials, Extracting valuable components from. J. W. Hornsey. No. 1,373,781; Apr. 5; v. 285; p. 68.
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Reamer. G. A. Humason. No. 1,375,094; Apr. 19; v. 285; p. 435.
Reamer, Adjustable. W. B. Johnson. No. 1,375,460; Apr. 19; v. 285; p. 505.
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Receptacle cap or closure applying apparatus. R. G. Clark. No. 1,375,364; Apr. 19; v. 285; p. 486.
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Refrigerating apparatus. E. G. E. Langbert. No. 1,375,396; Apr. 19; v. 285; p. 493.
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Boiler feed-water regulator. Stuff-regulator.
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Reservatory, Impermeable. G. C. Kennedy. No. 1,375,758; Apr. 26; v. 285; p. 593.
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Rivet-gage. M. Zigray. No. 1,375,747; Apr. 26; v. 285; p. 591.
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Road-sprinkler. H. Mayer, G. Schlatter, and A. Baltensweiler. No. 1,376,108; Apr. 26; v. 285; p. 661.
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Headlight-screen.
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Table-seat.
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Seeds, Mechanism for removing useful fiber from. A. A. Vardell. No. 1,375,985; Apr. 26; v. 285; p. 637.
Seeds, Mechanism for removing useful fiber from. A. A. Vardell. No. 1,375,986; Apr. 26; v. 285; p. 637.

Selecting mechanism. E. P. Bancroft. No. 1,374,630; Apr. 12; v. 285; p. 283.
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Selective system. A. F. Dixon. No. 1,374,192; Apr. 12; v. 285; p. 198.
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Selvage, Method and apparatus for treating. M. A. Replogle. No. 1,375,468; Apr. 19; v. 285; p. 506.
Sensitive-material-marking device. J. P. Betke. No. 1,374,875; Apr. 12; v. 285; p. 331.
Sensitized material, Making markings on. J. P. Bethke. No. 1,375,814; Apr. 26; v. 285; p. 604.
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Gas, oil, and sand separator.
Gold-separator.
Material-separator.
Storage-battery separator.
Tailing-separator.
Separator and evaporator, Automatic. C. Allen. No. 1,374,135; Apr. 5; v. 285; p. 146.
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Sewing machine, Mantle-. H. Embree. No. 1,376,324; Apr. 26; v. 285; p. 702.
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Shell and projectile. R. L. Wright. No. 1,374,707; Apr. 12; v. 285; p. 298.
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Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,374,675; Apr. 12; v. 285; p. 292.
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Pneumatic spring.
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Corner-stand.
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Stencil-plates, die-plates, and the like, Solution or bath for use in electrically preparing. G. E. Wertheimer. No. 1,376,366; Apr. 26; v. 285; p. 710.
Stencil-plates, die-plates, and the like, Solution or bath for electrically preparing. G. E. Wertheimer. No. 1,376,367; Apr. 26; v. 285; p. 710.
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Stoker-furnace. J. E. Wagoner. No. 1,374,125; Apr. 5; v. 285; p. 144.
Stoker, Locomotive-. N. M. Lower. No. 1,375,711; Apr. 26; v. 285; p. 585.
Stone-picker. G. Cherba. No. 1,374,489; Apr. 12; v. 285; p. 256.
Stop-motion for twister-frames. E. E. Heafner. No. 1,375,290; Apr. 19; v. 285; p. 473.
Stopper: *See*—
Bottle-stopper.
Storage-battery container. H. E. Hunt. No. 1,374,506; Apr. 12; v. 285; p. 509.
Storage battery. T. R. Cook. No. 1,376,257; Apr. 26; v. 285; p. 689.
Storage battery. M. O. Smith. No. 1,376,171; Apr. 26; v. 285; p. 673.
Storage-battery electrode and making same. H. C. Hubbell. No. 1,373,733; Apr. 5; v. 285; p. 68.
Storage-battery indicating device. C. C. Cox and G. W. Lents. No. 1,373,051; Apr. 5; v. 285; p. 112.
Storage-battery plate or electrode. E. W. Smith, C. D. Galloway, and C. Ambruster. No. 1,374,477; Apr. 12; v. 285; p. 254.
Storage-battery plates, Making. W. H. Grimditch. No. 1,374,076; Apr. 5; v. 285; p. 135.
Storage-battery separator. W. Best. No. 1,375,550; Apr. 19; v. 285; p. 522.
Storage-battery separator. W. M. Studebaker and H. J. Epple. No. 1,375,740; Apr. 26; v. 285; p. 590.
Storage-battery terminal. C. W. Haselett. No. 1,376,143; Apr. 26; v. 285; p. 668.
Storage-battery terminal post. C. W. Haselett. No. 1,376,144; Apr. 26; v. 285; p. 668.
Storage-bin. N. M. Langdon. No. 1,376,021; Apr. 26; v. 285; p. 644.
Stove and like heater, Gas cooking-. G. Waite. No. 1,374,046; Apr. 5; v. 285; p. 129.
Stove-door. T. R. Wilson. No. 1,375,620; Apr. 19; v. 285; p. 535.
Stove, Electric cooking-. A. R. Ross. No. 1,375,801; Apr. 26; v. 285; p. 601.
Stove, Gas-. A. H. Humphrey. No. 1,373,562; Apr. 5; v. 285; p. 36.
Stove-lid. W. Scharfhausen. No. 1,375,978; Apr. 26; v. 285; p. 636.
Stove, Oil-. A. Miclaush. No. 1,375,600; Apr. 19; v. 285; p. 531.
Stove, Oil-. G. P. Van Wye. No. 1,373,540; Apr. 5; v. 285; p. 31.
Stoves, Attachment for. G. F. James and I. E. Smith. No. 1,373,737; Apr. 5; v. 285; p. 69.
Stovepipe-joint. J. Watson. No. 1,376,364; Apr. 26; v. 285; p. 710.
Straight-edge. W. L. Clark. No. 1,375,649; Apr. 19; v. 285; p. 541.
Strainer, Laundry-. L. J. Syverson. No. 1,374,338; Apr. 12; v. 285; p. 226.
Straw-feeder. A. Bohnenblust. No. 1,375,204; Apr. 19; v. 285; p. 456.
Street-cleaning device. F. M. Grady. No. 1,375,505; Apr. 19; v. 285; p. 514.
Street-traffic signal. J. A. Cook. No. 1,375,280; Apr. 19; v. 285; p. 471.
Stringed instruments, Fingering attachment for. C. H. Reed. No. 1,374,386; Apr. 12; v. 285; p. 236.
Structure, Knocked-down or portable. G. A. Falk. No. 1,374,994; Apr. 19; v. 285; p. 415.
Stud-bolt driver. J. P. Johnson. No. 1,373,617; Apr. 5; v. 285; p. 46.
Stud Press-. B. Steiner. No. 1,376,298; Apr. 26; v. 285; p. 697.
Stuff-regulator. L. B. Decker. No. 1,374,286; Apr. 12; v. 285; p. 216.
Stylus, Recording. K. Rammelsberg. No. 1,373,635; Apr. 5; v. 285; p. 49.
Submarine-destroyer. C. J. Lindquist. No. 1,376,105; Apr. 26; v. 285; p. 661.
Submarine grapple. A. J. Maynard. No. 1,374,512; Apr. 12; v. 285; p. 261.
Subterranean streams, Controlling. E. Murray. No. 1,374,945; Apr. 19; v. 285; p. 406.
Sugar and preparing the same, Composition of. N. C. Fowler, Jr. No. 1,374,160; Apr. 5; v. 285; p. 151.
Suit, Comedian's. I. W. Gruhl. No. 1,373,423; Apr. 5; v. 285; p. 8.
Sulfate, Making basic zirconium. E. J. Pugh. No. 1,376,161; Apr. 26; v. 285; p. 671.
Sulfonated resin and making the same. A. Horwitz. No. 1,373,886; Apr. 5; v. 285; p. 99.
Sulfur, Treatment of mined. R. F. Bacon and H. S. Davis. No. 1,374,897; Apr. 19; v. 285; p. 397.
Sulfur, Treatment of mined. R. F. Bacon and H. S. Davis. No. 1,374,898; Apr. 19; v. 285; p. 397.
Support. J. Dotti and H. G. Hart. No. 1,373,716; Apr. 5; v. 285; p. 65.
Surfacing machines, Tension means for floor-. H. H. Wolfe. No. 1,374,345; Apr. 12; v. 285; p. 228.
Surgical operations on the eye, Apparatus for use in. E. R. Crossley. No. 1,375,445; Apr. 19; v. 285; p. 502.
Surveying and other instruments, Fine-motion device for. E. G. Fischer. No. 1,376,327; Apr. 26; v. 285; p. 703.
Swab, Surgical. W. H. Sharp. No. 1,375,861; Apr. 26; v. 285; p. 613.
Sweeper, Motor-driven street-. C. W. Lund. No. 1,374,933; Apr. 19; v. 285; p. 403.
Swill-distributer. A. H. Neller. No. 1,373,521; Apr. 5; v. 285; p. 28.
Swimming device. O. Grundmann. No. 1,374,077; Apr. 5; v. 285; p. 136.
Switch: *See*—
Distributing-switch.
Electric switch.
Ignition-switch.
Safety-switch.
Selective switch.
Sliding switch.
Telephone-switch.
Switch. E. H. Jacobs. No. 1,375,155; Apr. 19; v. 285; p. 447.
Switch-arm. W. M. Brown, E. B. Entwisle, and H. C. Stiff. No. 1,373,406; Apr. 5; v. 285; p. 5.
Switch lever and lock, Safety. L. J. Cotton. No. 1,375,035; Apr. 19; v. 285; p. 424.
Switch-operating mechanism. C. R. Peddle and J. M. Waldron. No. 1,375,537; Apr. 19; v. 285; p. 519.
Switching device. C. L. Lilleberg. No. 1,374,085; Apr. 5; v. 285; p. 137.
Switching device. C. L. Lilleberg. No. 1,374,086; Apr. 5; v. 285; p. 127.
Switching device, Machine-. C. L. Goodrum. No. 1,375,692; Apr. 26; v. 285; p. 582.
Swivel-turnbuckle device. C. S. Barrell. No. 1,374,348; Apr. 12; v. 285; p. 228.
Synchronized recording and reproducing apparatus for visual and audible actions. C. W. Ebeling. No. 1,374,913; Apr. 19; v. 285; p. 400.
Synchronizer. H. I. Larson. No. 1,374,929; Apr. 19; v. 285; p. 402.
Syringe attachment. L. Dunn. No. 1,373,803; Apr. 5; v. 285; p. 82.
Syringe, Fountain-. A. P. Ames. No. 1,374,799; Apr. 12; v. 285; p. 316.
Syringe, Hypodermic. P. S. Pittenger. No. 1,373,669; Apr. 5; v. 285; p. 56.
Table: *See*—
Chiropractic table.
Drawing-board table.
Extension-table.
Folding camp-table.
Tension-table.
Towel-table.
Table. P. W. Chmielowski. No. 1,375,488; Apr. 19; v. 285; p. 510.
Table and bed, Combination. T. B. Draper. No. 1,375,449; Apr. 19; v. 285; p. 503.
Table-seat. H. Mestre. No. 1,375,166; Apr. 19; v. 285; p. 449.
Tack-pulling machine. F. H. Thompson. No. 1,374,250; Apr. 12; v. 285; p. 209.
Tag and terminal-strip. E. A. Everett. No. 1,373,416; Apr. 5; v. 285; p. 7.
Tag, Ear-. A. A. Pannier. No. 1,376,223; Apr. 26; v. 285; p. 683.
Tag holder, License-. C. R. Wallace. No. 1,375,875; Apr. 26; v. 285; p. 616.
Tag, shipping-. S. B. Seaton. No. 1,373,916; Apr. 5; v. 285; p. 105.
Tail-holder. T. A. Davis. No. 1,374,364; Apr. 12; v. 285; p. 231.
Tailing-separator. E. A. Franklin. No. 1,374,645; Apr. 12; v. 285; p. 286.
Talking-machine stop. J. L. Davenport. No. 1,376,261; Apr. 26; v. 285; p. 690.
Talking-machines, Automatic lighting device for. E. K. Wizner. No. 1,375,341; Apr. 19; v. 285; p. 482.
Talking-machines, Filing-case for. G. Schlemmer. No. 1,376,118; Apr. 26; v. 285; p. 663.
Talking-machines, Harmony-box for. B. Scrivani. No. 1,373,677; Apr. 5; v. 285; p. 57.
Tank: *See*—
Dispensing-tank.
Gasolene service-tank.
Glass-tank.
Mixing-tank.
Reserve supply-tank.
Stock-watering tank.
Toy tank.
Transformer-tank.

Tank. G. Whitmore. No. 1,374,790; Apr. 12; v. 285; p. 314.
Tank construction. A. A. Kramer. No. 1,373,434; Apr. 5; v. 285; p. 10.
Tank-supply. Windmill-control mechanism for. J. E. Waltrowicz. No. 1,373,543; Apr. 5; v. 285; p. 32.
Tanks and the like, Mounting for. G. M. Willis and L. V. Newton. No. 1,374,972; Apr. 19; v. 285; p. 411.
Tanks, Fluid-control lock for. R. S. Klopfenstein. No. 1,376,283; Apr. 26; v. 285; p. 694.
Telegraph-pole. D. R. Ryals. No. 1,373,979; Apr. 5; v. 285; p. 118.
Telegraph system. G. C. Cummings. No. 1,375,281; Apr. 19; v. 285; p. 471.
Telegraph-transmitter. C. L. and H. L. Krum. No. 1,374,152; Apr. 5; v. 285; p. 150.
Telegraphy, Printing. H. Pfannenstiehl. No. 1,374,606; Apr. 12; v. 285; p. 279.
Telemotor. M. B. Benson. No. 1,374,179; Apr. 12; v. 285; p. 196.
Telemotor. M. B. Benson. No. 1,374,180; Apr. 12; v. 285; p. 196.
Telephone-exchange system. A. E. Lundell. No. 1,375,712; Apr. 26; v. 285; p. 585.
Telephone-exchange system. L. Polinkowsky. No. 1,373,447; Apr. 5; v. 285; p. 13.
Telephone-exchange system. J. N. Reynolds. No. 1,375,230; Apr. 19; v. 285; p. 461.
Telephone-mouthpiece. J. Chefer. No. 1,375,209; Apr. 19; v. 285; p. 457.
Telephone plants, Call-distributing arrangement for. G. A. Betulander. No. 1,375,351; Apr. 19; v. 285; p. 484.
Telephone set, Substation. J. Erickson. No. 1,373,607; Apr. 5; v. 285; p. 44.
Telephone-switch. G. W. Dickerson. No. 1,374,366; Apr. 12; v. 285; p. 232.
Telephone system. E. C. Britton. No. 1,374,184; Apr. 12; v. 285; p. 197.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,374,188; Apr. 12; v. 285; p. 198.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,375,276; Apr. 19; v. 285; p. 470.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,375,277; Apr. 19; v. 285; p. 470.
Telephone system, Automatic. T. G. Martin. No. 1,373,624; Apr. 5; v. 285; p. 47.
Telephone system, Automatic. G. A. Yanochowski. No. 1,376,371; Apr. 26; v. 285; p. 711.
Temperature-controller. F. J. Petrovics. No. 1,374,230; Apr. 12; v. 285; p. 206.
Temperatures, Device for keeping cooling-water at desirable. H. F. Waite. No. 1,373,848; Apr. 5; v. 285; p. 91.
Temple-roll bracket. J. L. Gilleran. No. 1,374,074; Apr. 5; v. 285; p. 135.
Tension-table. J. F. Roemer. No. 1,374,115; Apr. 5; v. 285; p. 143.
Tent or the like. R. A. Henry. No. 1,374,300; Apr. 12; v. 285; p. 219.
Testing materials and machine embodying the same. R. Guillery. No. 1,375,385; Apr. 19; v. 285; p. 490.
Textile fabric. I. Garon. No. 1,373,880; Apr. 5; v. 285; p. 98.
Therapeutic apparatus. J. J. Carlotti. No. 1,375,652; Apr. 19; v. 285; p. 542.
Thermal circuit-closer. R. L. McElroy. No. 1,374,596; Apr. 12; v. 285; p. 277.
Thermoscope. C. E. Linebarger. No. 1,374,857; Apr. 12; v. 285; p. 327.
Thickener, (sewage type.) C. Allen. No. 1,374,134; Apr. 5; v. 285; p. 146.
Thread package or holder. R. Reynolds. No. 1,375,015; Apr. 19; v. 285; p. 420.
Threshers, Straw-distributer for harvester-. E. F. Miller. No. 1,373,667; Apr. 5; v. 285; p. 55.
Threshing-machine or the like. P. Oda. No. 1,374,518; Apr. 12; v. 285; p. 262.
Ticket-case. J. J. Carr. No. 1,373,797; Apr. 5; v. 285; p. 81.
Tie: *See*—
Metallic railway-tie.
Railway-tie.
Tie. A. B. Chauncy. No. 1,373,949; Apr. 5; v. 285; p. 111.
Tile, Translucid antislipping-. M. F. Beecher. No. 1,374,136; Apr. 5; v. 285; p. 147.
Timepieces, Hand-setting mechanism for. S. W. Balch. No. 1,375,347; Apr. 19; v. 285; p. 484.
Timepieces, Hand-setting mechanism for. S. W. Balch. No. 1,375,348; Apr. 19; v. 285; p. 484.
Timer-cover device. J. Jespersen. No. 1,375,390; Apr. 19; v. 285; p. 491.
Timing device. R. M. G. Phillips. No. 1,375,973; Apr. 26; v. 285; p. 635.
Tins, Means for facilitating the opening of. A. Blanks. No. 1,375,551; Apr. 19; v. 285; p. 522.
Tire. De L. Davis. No. 1,374,637; Apr. 12; v. 285; p. 285.
Tire-armor and antiskid device, Combined. G. Soldani. No. 1,373,985; Apr. 5; v. 285; p. 119.
Tire-carrier. W. R. Green. No. 1,376,753; Apr. 26; v. 285; p. 593.
Tire-casing. C. W. Miegel. No. 1,375,527; Apr. 19; v. 285; p. 518.
Tire-casings, Repairing. F. D. Goodlake. No. 1,374,846; Apr. 12; v. 285; p. 325.
Tire-chain. C. S. Barrell. No. 1,374,347; Apr. 12; v. 285; p. 228.
Tire-chain lock and elastic take-up. A. A. Smith and H. W. Paine. No. 1,374,771; Apr. 12; v. 285; p. 310.
Tire construction. L. G. Carilion. No. 1,374,904; Apr. 19; v. 285; p. 398.
Tire-cushion, Inner. J. W. and G. F. Burgess. No. 1,375,032; Apr. 19; v. 285; p. 423.
Tire for automobiles, Extricator-. E. L. Hotchkiss. No. 1,374,920; Apr. 19; v. 285; p. 401.
Tire for tractor-wheels, Detachable. E. Schneider. No. 1,373,530; Apr. 5; v. 285; p. 30.
Tire-holder. R. C. Montgomery. No. 1,374,089; Apr. 5; v. 285; p. 138.
Tire-machine. W. B. Harsel. No. 1,374,449; Apr. 12; v. 285; p. 248.
Tire-mold. E. H. Trump. No. 1,375,543; Apr. 19; v. 285; p. 521.
Tire-molding apparatus. C. W. Stickel. No. 1,376,123; Apr. 26; v. 285; p. 664.
Tire nipple, Pneumatic-. H. Stommel. No. 1,376,048; Apr. 26; v. 285; p. 649.
Tire, Pneumatic. B. C. Seaton. No. 1,374,957; Apr. 19; v. 285; p. 408.
Tire-pump. R. C. Hilton. No. 1,375,843; Apr. 26; v. 285; p. 610.
Tire-retreading apparatus and retreading tire-casings. J. H. Miller. No. 1,375,528; Apr. 19; v. 285; p. 518.
Tire-shield. G. Soldani. No. 1,373,984; Apr. 5; v. 285; p. 119.
Tire-spreader. E. A. Raynaud. No. 1,375,065; Apr. 19; v. 285; p. 430.
Tire-tool. D. M. Boone. No. 1,376,070; Apr. 26; v. 285; p. 654.
Tire-tube. G. G. Card. No. 1,374,634; Apr. 12; v. 285; p. 284.
Tire tubes, Vulcanizing equipment for vulcanizing casings for pneumatic-. J. Traum. No. 1,375,542; Apr. 19; v. 285; p. 521.
Tire-turning tool. J. F. Rogers. No. 1,373,834; Apr. 5; v. 285; p. 89.
Tire-valve device. G. Van Camp. No. 1,375,429; Apr. 19; v. 285; p. 499.
Tire, Vehicle-. G. W. Rode, Jr. No. 1,374,390; Apr. 12; v. 285; p. 236.
Tires, Air-bag for vehicle-. A. Huetter. No. 1,374,570; Apr. 12; v. 285; p. 272.
Tires, Air-chill for vehicle-. R. W. Mellor. No. 1,374,382; Apr. 12; v. 285; p. 235.
Tires, Antiskid device for. C. A. Nethercutt. No. 1,375,534; Apr. 19; v. 285; p. 519.
Tires, Antiskidding device for. I. Ulfers. No. 1,374,692; Apr. 12; v. 285; p. 295.
Tires, Armor for pneumatic. M. J. Gillice. No. 1,373,881; Apr. 5; v. 285; p. 98.
Tires, Armored tread for. A. L. Benner. No. 1,375,349; Apr. 19; v. 285; p. 484.
Tires, Audible signal for pneumatic. O. F. Schroeder. No. 1,373,453; Apr. 5; v. 285; p. 14.
Tires, Building. R. S. Trogner. No. 1,374,408; Apr. 12; v. 285; p. 240.
Tires, Inner tube for. O. T. Bugg. No. 1,373,485; Apr. 5; v. 285; p. 21.
Tires, Making motor-vehicle. E. Hopkinson. No. 1,374,505; Apr. 12; v. 285; p. 259.
Tires, Patch for pneumatic. J. R. Buechler. No. 1,375,825; Apr. 26; v. 285; p. 606.
Tires, Process of and mold for rebuilding. H. G. Ballou. No. 1,374,805; Apr. 12; v. 285; p. 317.
Toaster. R. F. Teal. No. 1,375,122; Apr. 19; v. 285; p. 440.
Tobacco-looper. F. M. Comstock. No. 1,376,318; Apr. 26; v. 285; p. 701.
Tobacco-pipe and cigar and cigarette holder. A. Webber. No. 1,373,849; Apr. 5; v. 285; p. 91.
Toe-softening machine. M. Brock. No. 1,373,481; Apr. 5; v. 285; p. 20.
Toggle. J. Karitzky. No. 1,374,924; Apr. 19; v. 285; p. 402.
Toggle. J. Karitzky. No. 1,374,925; Apr. 19; v. 285; p. 402.
Toggle, Spring-. J. Karitzky. No. 1,374,926; Apr. 19; v. 285; p. 402.
Toggle, Spring-. H. W. Pleister. No. 1,374,950; Apr. 19; v. 285; p. 407.
Toggle, Spring-. D. R. Sherwood and J. Karitzky. No. 1,374,959; Apr. 19; v. 285; p. 408.
Tone-chamber. F. F. Blandin. No. 1,373,943; Apr. 5; v. 285; p. 110.
Tongs. H. D. Deam. No. 1,376,323; Apr. 26; v. 285; p. 702.
Tongs, Wafer-. F. B. Peterson. No. 1,374,522; Apr. 12; v. 285; p. 263.
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Tonsil-remover. G. F. Richter. No. 1,375,178; Apr. 19; v. 285; p. 451.
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Tool. A. N. Trullench. No. 1,375,984; Apr. 26; v. 285; p. 637.
Tool-bag for linemen, Collapsible. E. F. Shipman. No. 1,374,960; Apr. 19; v. 285; p. 409.

Tool, Bead-making. F. W. Pfeiffer. No. 1,375,318; Apr. 19; v. 285; p. 478.
Tool, Combination-. G. C. Marten. No. 1,374,751; Apr. 12; v. 285; p. 306.
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Tool-handle. J. A. Turgeon. No. 1,375,069; Apr. 19; v. 285; p. 431.
Tool-handles, Reinforcing or stay bolt for. J. H. Bell. No. 1,374,713; Apr. 12; v. 285; p. 299.
Tool-holder. I. Drowns. No. 1,375,785; Apr. 26; v. 285; p. 598.
Tool-holder, Adjustable. F. Wermes. No. 1,373,926; Apr. 5; v. 285; p. 107.
Tool, Peach-pitting. S. J. Dunkley. No. 1,374,288; Apr. 12; v. 285; p. 217.
Tool, Roughening or hand abrading. E. Peasley. No. 1,373,970; Apr. 5; v. 285; p. 116.
Tool-sharpening gage. B. Klein. No. 1,374,582; Apr. 12; v. 285; p. 274.
Tool, Smoothing-. K. R. Peters. No. 1,374,604; Apr. 12; v. 285; p. 279.
Tool, Tamping-. I. E. Clum. No. 1,376,137; Apr. 26; v. 285; p. 664.
Toothbrush receptacle and holder. A. G. Sulak. No. 1,375,865; Apr. 26; v. 285; p. 614.
Top, Convertible and portable. H. S. Thompson. No. 1,375,027; Apr. 19; v. 285; p. 422.
Torch, Welding and cutting. W. B. Perdue. No. 1,373,829; Apr. 5; v. 285; p. 88.
Torpedo. H. L. Boesch. No. 1,375,821; Apr. 26; v. 285; p. 605.
Torpedo. H. P. Jensen-Bearlundd. No. 1,375,157; Apr. 19; v. 285; p. 447.
Torpedo, Radio aerial. G. J. Dye. No. 1,376,192; Apr. 26; v. 285; p. 676.
Tow-bar. E. W. McMinn. No. 1,375,056; Apr. 19; v. 285; p. 428.
Tow-rope and hitch. D. G. Stephen. No. 1,375,119; Apr. 19; v. 285; p. 440.
Towel-holder. H. C. McDonald. No. 1,374,595; Apr. 12; v. 285; p. 277.
Towel-table. J. L. Cox. No. 1,374,361; Apr. 12; v. 285; p. 231.
Towels and the like, Hanger for. C. Lichty. No. 1,374,459; Apr. 12; v. 285; p. 250.
Toy. A. P. Berggreen. No. 1,374,420; Apr. 12; v. 285; p. 243.
Toy, Figure. B. Clark. No. 1,374,821; Apr. 12; v. 285; p. 320.
Toy. J. F. Crist. No. 1,375,677; Apr. 26; v. 285; p. 579.
Toy. T. P. Jessen. No. 1,376,281; Apr. 26; v. 285; p. 694.
Toy. E. B. Nichols. No. 1,375,721; Apr. 26; v. 285; p. 587.
Toy. E. C. Richardson. No. 1,375,608; Apr. 19; v. 285; p. 533.
Toy aeroplane. W. H. Dunn. No. 1,374,000; Apr. 5; v. 285; p. 121.
Toy-aeroplane projectile. R. L. Parrish. No. 1,375,971; Apr. 26; v. 285; p. 635.
Toy catapult. H. D. Buys. No. 1,375,776; Apr. 26; v. 285; p. 596.
Toy dancing figure. A. H. Allen. No. 1,373,932; Apr. 5; v. 285; p. 108.
Toy, Educational furniture. H. M. Filedner. No. 1,376,087; Apr. 26; v. 285; p. 657.
Toy, Figure wheeled. H. E. Green. No. 1,374,296; Apr. 12; v. 285; p. 218.
Toy gun. A. Sekula. No. 1,374,242; Apr. 12; v. 285; p. 208.
Toy motor-vehicle. W. O. McDaniel. No. 1,375,713; Apr. 26; v. 285; p. 586.
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Vehicles, Runner attachment for children's. J. Hudry. No. 1,374,011; Apr. 5; v. 285; p. 123.
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Vehicles, Running-gear for motor-. L. E. Waterman, H. R. Traphagen, and H. L. Waterman. No. 1,374,412; Apr. 12; v. 285; p. 241.
Vehicles, Shock-absorbing means for. H. Howe. No. 1,375,512; Apr. 19; v. 285; p. 515.
Vehicles, Signaling device for. J. B. Munis. No. 1,375,720; Apr. 26; v. 285; p. 587.
Vehicles, Steering-gear connection for motor-. T. L. Anthony. No. 1,375,887; Apr. 26; v. 285; p. 618.
Vehicles, Steering mechanism for. R. S. Pierce and M. R. Kuehn. No. 1,375,859; Apr. 26; v. 285; p. 613.
Vehicles, Steering mechanism for. E. J. Valeur. No. 1,374,044; Apr. 5; v. 285; p. 129.
Velocipede. C. W. Bennett. No. 1,373,707; Apr. 5; v. 285; p. 63.
Velocipede. E. C. Hesse. No. 1,375,459; Apr. 19; v. 285; p. 505.
Velocipede. J. A. Mosher and W. H. Townsend. No. 1,374,513; Apr. 12; v. 285; p. 261.
Vending apparatus and coin-actuated mechanism, Liquid-. S. Madsen. No. 1,375,639; Apr. 19; v. 285; p. 539.
Vending-machine. E. B. Adams. No. 1,373,582; Apr. 5; v. 285; p. 39.
Vending-machine. C. May. No. 1,375,226; Apr. 19; v. 285; p. 460.
Vending machine, Liquid-. J. S. Samuelson. No. 1,373,914; Apr. 5; v. 285; p. 104.
Vending machines, Coin-tester for coin-controlled. A. D. Grover. No. 1,373,422; Apr. 5; v. 285; p. 8.
Ventilating systems, Blower for. A. Lamontagne. No. 1,375,595; Apr. 19; v. 285; p. 530.
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Ventilator. W. G. Forcier. No. 1,373,960; Apr. 5; v. 285; p. 114.
Ventilator. H. W. Gaddess. No. 1,375,378; Apr. 19; v. 285; p. 480.
Vessel-filling apparatus. T. S. Bailey. No. 1,373,935; Apr. 5; v. 285; p. 109.
Vessels, Apparatus for refloating sunken. M. Ariura. No. 1,373,643; Apr. 5; v. 285; p. 51.
Vessels, Device for raising sunken. J. W. Reno. No. 1,373,672; Apr. 5; v. 285; p. 56.
Vibrator, Mechanical. W. H. Gilman and M. H. Loughridge. No. 1,374,197; Apr. 12; v. 285; p. 199.
Vise. J. A. Olson. No. 1,375,928; Apr. 26; v. 285; p. 626.
Vise. J. K. Skinder. No. 1,375,236; Apr. 19; v. 285; p. 462.
Vise. J. L. Ware. No. 1,375,876; Apr. 26; v. 285; p. 616.
Vise, Angler's cabinet-. W. L. Beaty. No. 1,374,807; Apr. 12; v. 285; p. 317.
Vulcanizer, Footwear. W. H. Foster. No. 1,374,371; Apr. 12; v. 285; p. 233.
Vulcanizer. O. M. Fredd. No. 1,373,807; Apr. 5; v. 285; p. 83.
Vulcanizer. F. O. Melin. No. 1,376,149; Apr. 26; v. 285; p. 669.
Vulcanizing apparatus and process. E. Fetter. (Reissue.) No. 15,076; Apr. 5; v. 285; p. 153.
Vulcanizing-mold. O. M. Fredd. No. 1,376,196; Apr. 26; v. 285; p. 677.
Wafer-baking apparatus. M. H. Bergen. No. 1,374,419; Apr. 12; v. 285; p. 243.
Wagon end-gate. J. Gross. No. 1,374,297; Apr. 12; v. 285; p. 218.
Wall construction. E. F. Needham. No. 1,375,103; Apr. 19; v. 285; p. 437.
Walls, Core for molding hollow. J. E. Fifield. No. 1,373,877; Apr. 5; v. 285; p. 97.
Walls, Metallic mold for concrete. G. W. Bolton. No. 1,374,717; Apr. 12; v. 285; p. 300.
Wardrobe, Folding. M. Woolson. No. 1,375,883; Apr. 26; v. 285; p. 617.
Ware-molding apparatus. G. C. Kalbfleisch. No. 1,373,891; Apr. 5; v. 285; p. 100.
Warp-dyeing machine. W. F. Haskell. No. 1,375,389; Apr. 19; v. 285; p. 491.
Warp stop-motion. R. G. Turner. No. 1,375,743; Apr. 26; v. 285; p. 591.
Warp-stop-motion frame. J. Regan. No. 1,375,729; Apr. 26; v. 285; p. 589.
Washboilers and culinary vessels, Bottom-protector for. L. R. Kramer. No. 1,375,158; Apr. 19; v. 285; p. 448.
Washer: *See*—
Clothes-washer.
Oil-well washer.
Spring lock-washer.
Vaginal washer.
Washing-machine. M. Bogre. No. 1,373,792; Apr. 5; v. 285; p. 70.
Washing-machine. F. T. Clugg. No. 1,376,255; Apr. 26; v. 285; p. 689.
Washing-machine. W. B. Fink. No. 1,373,494; Apr. 5; v. 285; p. 23.
Washing-machine. P. J. Kazda. No. 1,375,637; Apr. 19; v. 285; p. 539.
Washing-machine. F. Lombardi. No. 1,375,522; Apr. 19; v. 285; p. 517.

Washing-machine. H. Rabessana. No. 1,376,227; Apr. 26; v. 285; p. 684.
Washing-machine. K. Rayburn. No. 1,375,107; Apr. 19; v. 285; p. 438.
Washing-machine. J. W. Seifert. No. 1,373,917; Apr. 5; v. 285; p. 105.
Washing-machine. J. W. Seifert. No. 1,374,958; Apr. 19; v. 285; p. 408.
Washing-machine, Steam. J. Kashinsky. No. 1,375,913; Apr. 26; v. 285; p. 623.
Washing-machine with folding wringer. H. D. Payne, A. W. De Clerque, and S. T. Sjoberg. No. 1,375,170; Apr. 19; v. 285; p. 450.
Washing-machines, Heating unit for. I. H. Harris. No. 1,374,202; Apr. 12; v. 285; p. 200.
Waste-paper bag. A. D. Robinson. No. 1,373,450; Apr. 5; v. 285; p. 14.
Watch-bow fastener. E. J. Wittman. No. 1,375,434; Apr. 19; v. 285; p. 500.
Watch-dial, Adjustable. H. L. Shaw. No. 1,375,470; Apr. 19; v. 285; p. 507.
Watch-movement case. S. K. Ouzoun-Boghossian. No. 1,375,661; Apr. 19; v. 285; p. 543.
Watches, Safety attachment for stop-. H. E. Von Kersburg. No. 1,373,467; Apr. 5; v. 285; p. 17.
Water-heater. J. W. Ewart. No. 1,376,142; Apr. 26; v. 285; p. 668.
Water-tube boiler and superheater therefor. R. S. Portham and J. Dornan. No. 1,375,174; Apr. 19; v. 285; p. 451.
Water-wheel and dam, Combined. C. W. Smith. No. 1,373,456; Apr. 5; v. 285; p. 15.
Waterproof covering and making same. O. A. Heppes. No. 1,376,092; Apr. 26; v. 285; p. 658.
Waterproofing and sizing composition, Adhesive. A. E. Craver. No. 1,373,412; Apr. 5; v. 285; p. 6.
Wave or tide motor. C. L. Ervin. No. 1,376,140; Apr. 26; v. 285; p. 667.
Weaner. W. R. Barger. No. 1,375,031; Apr. 19; v. 285; p. 423.
Web-press, Perfecting multicolor. R. N. Getches and I. Tornberg. No. 1,374,196; Apr. 12; v. 285; p. 199.
Weeder, Rotary-rod. L. C. Van Patten and J. B. Wolfe. No. 1,375,871; Apr. 26; v. 285; p. 615.
Weighing granular or like substances, Scale for automatically. A. Barraclough. No. 1,374,977; Apr. 19; v. 285; p. 412.
Weighing-machine. T. B. Lambert. No. 1,374,456; Apr. 12; v. 285; p. 250.
Weighing-machine, Automatic. C. L. Bond. No. 1,374,876; Apr. 12; v. 285; p. 331.
Welding. E. I. Dodds. No. 1,374,640; Apr. 12; v. 285; p. 286.
Welding, Apparatus for electric. G. H. Forsyth. No. 1,375,687; Apr. 26; v. 285; p. 581.
Welding composition, Arc-. J. C. Armor. No. 1,374,711; Apr. 12; v. 285; p. 299.
Welding of different metals to form a composite ingot. A. G. C. Pittevil. No. 1,374,110; Apr. 5; v. 285; p. 142.
Welding system, Arc-. O. H. Eschholz. No. 1,374,557; Apr. 12; v. 285; p. 269.
Well apparatus. W. L. Dunn. No. 1,376,009; Apr. 26; v. 285; p. 642.
Well-drilling device. J. B. Wooldridge. No. 1,376,302; Apr. 26; v. 285; p. 698.
Well-drilling device, Deep-. L. E. Nebergall. No. 1,374,946; Apr. 19; v. 285; p. 406.
Well-drilling rigs, Signal and registering mechanism for. G. D. Morrison. No. 1,375,410; Apr. 19; v. 285; p. 495.
Well-drilling tool. W. G. Blodgett. No. 1,375,817; Apr. 26; v. 285; p. 604.
Well-drilling tool. F. H. Clore. No. 1,373,996; Apr. 5; v. 285; p. 121.
Well-tubing catcher. R. A. Wilson. No. 1,374,540; Apr. 12; v. 285; p. 266.
Welt-strip and making same. E. W. Dunbar. No. 1,375,283; Apr. 19; v. 285; p. 472.
Wheel: *See*—
Auto-wheel.
Cushioned wheel.
Demountable wheel.
Disk wheel.
Disk vehicle-wheel.
Pipe-cutting wheel.
Pressed-steel wheel.
Pressed-steel vehicle-wheel.
Resilient wheel.
Resilient vehicle-wheel.
Steering-wheel.
Traction-wheel.
Tractor-wheel.
Vehicle-wheel.
Wire-spoke wheel.
Wheel. W. E. Crawford. No. 1,376,259; Apr. 26; v. 285; p. 689.
Wheel. H. C. Muhlbach. No. 1,374,217; Apr. 12; v. 285; p. 203.
Wheel. L. H. Perlman. No. 1,374,099; Apr. 5; v. 285; p. 140.
Wheel. L. H. Perlman. No. 1,374,100; Apr. 5; v. 285; p. 140.
Wheel. L. H. Perlman. No. 1,374,101; Apr. 5; v. 285; p. 140.
Wheel. L. H. Perlman. No. 1,374,103; Apr. 5; v. 285; p. 141.
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Wheel attachment. E. H. Chadderdon. No. 1,374,428; Apr. 12; v. 285; p. 244.
Wheel-drive. H. Nelson. No. 1,375,259; Apr. 19; v. 285; p. 466.
Wheel-guard. J. O. Johnston. No. 1,373,889; Apr. 5; v. 285; p. 99.
Wheel-guard. J. O. Johnston. No. 1,375,392; Apr. 19; v. 285; p. 492.
Wheel-hub. B. C. Zuhars and H. D. Clarke. No. 1,374,133; Apr. 5; v. 285; p. 146.
Wheel-protector. A. Diana. No. 1,374,065; Apr. 5; v. 285; p. 133.
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Wheel-rim. H. C. Babel. No. 1,374,272; Apr. 12; v. 285; p. 214.
Wheel-rim, Resilient and demountable. B. A. Raynor. No. 1,374,113; Apr. 5; v. 285; p. 142.
Wheel-skid, Emergency. C. D. Oland. No. 1,375,063; Apr. 19; v. 285; p. 429.
Wheels, Collapsible rim for. E. A. Jones. No. 1,374,574; Apr. 12; v. 285; p. 273.
Wheels, Device for securing demountable. A. J. de La Barre. No. 1,375,037; Apr. 19; v. 285; p. 424.
Wheels, Lubricating means for trolley-. A. McKinnon. No. 1,375,525; Apr. 19; v. 285; p. 517.
Wheelbarrow reinforcement. H. J. Luschen. No. 1,375,921; Apr. 26; v. 285; p. 625.
Winding-machine. J. V. Cunniff. No. 1,375,568; Apr. 19; v. 285; p. 525.
Windmill. D. R. Holmes and N. H. Campbell. No. 1,374,659; Apr. 12; v. 285; p. 289.
Windshield. H. G. Smith. No. 1,373,840; Apr. 5; v. 285; p. 90.
Windshield-cleaner. A. W. Wessoleck. No. 1,375,878; Apr. 26; v. 285; p. 617.
Windshield-shade. W. H. Malott. No. 1,375,164; Apr. 19; v. 285; p. 449.
Windshields, Gutter for. J. Person. No. 1,375,104; Apr. 19; v. 285; p. 437.
Window and transom, Combined. G. Sincak. No. 1,375,186; Apr. 19; v. 285; p. 453.
Window antirattler. E. H. Jacob. No. 1,374,206; Apr. 12; v. 285; p. 201.
Window attachment. W. S. Borland. No. 1,373,709; Apr. 5; v. 285; p. 63.
Window-bracket. J. P. Arntz. No. 1,373,397; Apr. 5; v. 285; p. 3.
Window-cleaning device. A. Fernandez. No. 1,376,195; Apr. 26; v. 285; p. 677.
Window, Collapsible. W. P. Eggers. No. 1,376,193; Apr. 26; v. 285; p. 677.
Window-counterbalance. E. G. Erickson. No. 1,373,955; Apr. 5; v. 285; p. 113.
Window-fastener. J. K. Bleackacek. No. 1,375,769; Apr. 26; v. 285; p. 595.
Window-fastener. E. Songey. No. 1,376,122; Apr. 26; v. 285; p. 664.
Window-frames, Air-deflecting device for. F. W. Lancaster. No. 1,376,210; Apr. 26; v. 285; p. 680.
Window-glass channel. E. W. M. Bailey. No. 1,374,629; Apr. 12; v. 285; p. 283.
Window-lock. J. A. Rouch and T. H. Hastie. No. 1,373,977; Apr. 5; v. 285; p. 117.
Window-lock. T. A. Smith. No. 1,374,773; Apr. 12; v. 285; p. 310.
Window-ventilator. C. S. Woods. No. 1,376,184; Apr. 26; v. 285; p. 675.
Windows or the like, Protection-strip for glass. E. U. Kimbark. No. 1,375,914; Apr. 26; v. 285; p. 623.
Wire-covering machine. J. A. Heany. No. 1,375,655; Apr. 19; v. 285; p. 542.
Wire-cutter. F. X. Ratkovic. No. 1,373,762; Apr. 5; v. 285; p. 74.
Wire fabric. W. E. Baker. No. 1,375,810; Apr. 26; v. 285; p. 603.
Wire fabric. W. J. Pine. No. 1,376,037; Apr. 26; v. 285; p. 647.
Wire rope. F. S. Phelps. No. 1,373,632; Apr. 5; v. 285; p. 49.
Wire-spoke wheel. L. S. Weil. No. 1,375,267; Apr. 19; v. 285; p. 468.
Wire-stretcher. L. F. Edwards. No. 1,374,838; Apr. 12; v. 285; p. 323.
Wireless direction-finder. R. A. Fessenden. No. 1,374,293; Apr. 12; v. 285; p. 218.
Wireless telegraphy. Generator of high-frequency oscillations for. V. J. F. Bouchardon. No. 1,373,710; Apr. 5; v. 285; p. 64.
Wood distillation. E. M. Sawtelle. No. 1,374,887; Apr. 12; v. 285; p. 833.
Wood-impregnating retorts, Condenser and separator for. J. H. Dunstan and R. A. Davis. No. 1,374,069; Apr. 5; v. 285; p. 134.
Wood protection. P. Bartsch. No. 1,374,806; Apr. 12; v. 285; p. 317.
Work-guide. F. L. MacKenzie and G. Goddu. No. 1,375,796; Apr. 26; v. 285; p. 600.
Woven pocketed carrier. F. R. Batchelder. No. 1,375,442; Apr. 19; v. 285; p. 502.

Woven pocketed carrier. V. H. Jennings. No. 1,373,739; Apr. 5; v. 285; p. 69.
Wrapping device. K. Miyasaki. No. 1,375,797; Apr. 26; v. 285; p. 601.
Wrapping-machine. O. E. Edstrom. No. 1,375,369; Apr. 19; v. 285; p. 487.
Wrench: *See*—
Angular-socket wrench. Quick-adjusting wrench.
Pipe and nut wrench. Ratchet socket-wrench.
Plier-type wrench.
Wrench. G. W. Ansley. No. 1,375,546; Apr. 19; v. 285; p. 521.
Wrench. B. V. Apfeld. No. 1,375,071; Apr. 19; v. 285; p. 431.
Wrench. L. Briles. No. 1,373,861; Apr. 5; v. 285; p. 94.
Wrench. C. G. Moline. No. 1,375,530; Apr. 19; v. 285; p. 518.
Wrench. F. M. Smith. No. 1,376,295; Apr. 26; v. 285; p. 697.
Wrench-sockets, Forming. P. C. Baldus. No. 1,375,767; Apr. 26; v. 285; p. 595.
Wringer: *See*—
Clothes-wringer.
Wringer and clamp therefor. L. R. Jones. No. 1,373,905; Apr. 5; v. 285; p. 115.
Wringer attachment. L. F. Doellinger. No. 1,375,784; Apr. 26; v. 285; p. 598.
Wringer-rolls, Stripping mechanism for. T. J. Bonniwell. No. 1,375,356; Apr. 19; v. 285; p. 485.
Wrist-pin bearing, Removable. R. F. Forkner and A. Straightiff. No. 1,375,142; Apr. 19; v. 285; p. 444.
Writing and reading device, Self-luminous. P. M. Willis. No. 1,373,783; Apr. 5; v. 285; p. 78.
X-ray photographing appliance. G. E. Richards. No. 1,374,235; Apr. 12; v. 285; p. 206.
X-ray plates, Stereoscope for. H. F. Waite. No. 1,373,847; Apr. 5; v. 285; p. 91.
Yoke center, Neck-. J. N. Lindquist. No. 1,375,920; Apr. 26; v. 285; p. 625.
Yoke, Drawbar-. C. E. Bauer. No. 1,375,768; Apr. 26; v. 285; p. 595.
Zinc sulfid, Manufacture of. P. Comment. No. 1,374,435; Apr. 12; v. 285; p. 246.
Zirconium steel, Producing. H. C. Sicard. No. 1,374,038; Apr. 5; v. 285; p. 128.

ALPHABETICAL LIST OF DESIGNS.

Apparel or article of similar nature, Appliqué trimming for wearing-. O. E. Maul. No. 57,537; Apr. 12; v. 285; p. 345.
Ash-tray and cigar-holder, Combination. J. E. O'Brien. No. 57,541; Apr. 12; v. 285; p. 346.
Automobile-body. E. Rapattoni. Nos. 57,723–4; Apr. 26; v. 285; p. 744.
Automobile-fender. W. A. King. No. 57,661; Apr. 26; v. 285; p. 733.
Automobile hood and radiator, Combined. L. H. Pomeroy. No. 57,722; Apr. 26; v. 285; p. 744.
Automobile instrument-board, Instrument-mount for an. F. G. Whittington. No. 57,754; Apr. 26; v. 285; p. 749.
Automobile parking-light. A. B. Gross. No. 57,640; Apr. 26; v. 285; p. 729.
Automobile side curtain. R. K. Thomson. No. 57,746; Apr. 26; v. 285; p. 748.
Automobile-signal. E. E. Mullvain. No. 57,708; Apr. 26; v. 285; p. 742.
Automobile tail-light and direction-indicator, Combination. W. P. Hammond. No. 57,523; Apr. 12; v. 285; p. 342.
Automobile tail or signal light. W. Hendry. No. 57,648; Apr. 26; v. 285; p. 731.
Automobile-top. L. and C. Gillig. No. 57,635; Apr. 26; v. 285; p. 729.
Automobile wheel-hub cap. R. M. Guy. No. 57,643; Apr. 26; v. 285; p. 780.
Automobile-wheel lock. A. W. Saegesser. No. 57,729; Apr. 26; v. 285; p. 745.
Badge. G. A. Desenfant. Nos. 57,516–7; Apr. 12; v. 285; p. 341.
Badge or emblem. F. S. Shankland. No. 57,545; Apr. 12; v. 285; p. 346.
Basket. I. E. Loewenberg. No. 57,535; Apr. 12; v. 285; p. 344.
Basket. E. Salazar. No. 57,730; Apr. 26; v. 285; p. 745.
Bathing-cap. G. K. Guinsburg. No. 57,642; Apr. 26; v. 285; p. 730.
Beard-softener. C. S. Finney. No. 57,628; Apr. 26; v. 285; p. 727.
Bench, Double. L. G. Haase. No. 57,644; Apr. 26; v. 285; p. 730.
Bill-board, Miniature. W. E. Telling. No. 57,484; Apr. 5; v. 285; p. 158.
Bill-board, Miniature. W. E. Telling. No. 57,485; Apr. 5; v. 285; p. 158.
Bottle. R. J. Maurer. No. 57,695; Apr. 26; v. 285; p. 739.
Bottle. J. J. Mojonnier. No. 57,479; Apr. 5; v. 285; p. 157.
Bottle-surface. A. J. Knowles. No. 57,672; Apr. 26; v. 285; p. 735.
Boxes, Handhole-cover for. J. Januchowsky. No. 57,477; Apr. 5; v. 285; p. 157.
Bracelet. E. H. Miller. No. 57,702; Apr. 26; v. 285; p. 741.
Brooder-heater, Moisture-tank for a. M. C. Baron. No. 57,572; Apr. 26; v. 285; p. 717.
Brooder-hood. M. C. Baron. No. 57,573; Apr. 26; v. 285; p. 715.
Buckle, Repair-. W. E. Dempsey. No. 57,591; Apr. 26; v. 285; p. 720.
Bumper. J. W. Simmons. No. 57,734; Apr. 26; v. 285; p. 746.
Bumper-bar. R. T. Newton. No. 57,712; Apr. 26; v. 285; p. 742.
Button. J. Fox. No. 57,629; Apr. 26; v. 285; p. 727.
Caddie-bag. B. R. Hunt. No. 57,526; Apr. 12; v. 285; p. 343.
Canning-knife. J. H. Lickert. No. 57,684; Apr. 26; v. 285; p. 737.
Car, Automobile service-. M. T. Kresteller. No. 57,675; Apr. 26; v. 285; p. 736.
Carbureter body or casing. C. E. Johnson. No. 57,659; Apr. 26; v. 285; p. 733.
Cash-register. C. J. Sundstrand. No. 57,742; Apr. 26; v. 285; p. 747.
Chair. G. A. Erikson. No. 57,627; Apr. 26; v. 285; p. 727.
Chairs, Attachment for. J. L. Wilcox. No. 57,560; Apr. 12; v. 285; p. 350.
Chandelier stem and distributer, Combined. B. Newland. No. 57,710; Apr. 26; v. 285; p. 742.
Chisels, Plane block for. A. Turnbull. No. 57,748; Apr. 26; v. 285; p. 748.
Cigarette-forming device. C. S. Branch. No. 57,581; Apr. 26; v. 285; p. 719.
Cloth, Floor-. F. Cartwright. Nos. 57,495–503; Apr. 12; v. 285; pp. 337–9.
Collar fastener, Soft-. S. Plummer. No. 57,721; Apr. 26; v. 285; p. 744.
Collar-holder. W. E. Kennison. No. 57,660; Apr. 26; v. 285; p. 733.
Collar-holder. R. K. and F. S. Maker. No. 57,694; Apr. 26; v. 285; p. 739.
Collar-holder. A. J. Newton. No. 57,711; Apr. 26; v. 285; p. 742.
Comb-cleaning device. L. Spak. No. 57,737; Apr. 26; v. 285; p. 747.
Container. V. Vivaudou. No. 57,488; Apr. 5; v. 285; p. 158.
Container for fruit syrup, flavoring extracts, and fruit acids, Combination tube. S. L. Crawford. No. 57,588; Apr. 26; v. 285; p. 720.
Crock, Buttermilk-. D. O. Brant. No. 57,580; Apr. 26; v. 285; p. 719.
Curtain-rod holder. L. G. Strnad. No. 57,740; Apr. 26; v. 285; p. 747.
Dish or similar receptacle. F. Pfeiffer, Sr. No. 57,719; Apr. 26; v. 285; p. 743.
Display-box for bead necklaces. O. W. Trilsch. No. 57,747; Apr. 26; v. 285; p. 748.
Display-stand. M. M. Mills. No. 57,705; Apr. 26; v. 285; p. 741.
Doll. H. Baum. No. 57,489; Apr. 12; v. 285; p. 336.
Doll. S. E. Delavan. No. 57,515; Apr. 12; v. 285; p. 341.
Doll. W. Donahey. Nos. 57,596–613; Apr. 26; v. 285; pp. 721–4.
Doll. O. W. Ennis. No. 57,519; Apr. 12; v. 285; p. 341.
Doll-head. E. H. Springer. No. 57,547; Apr. 12; v. 285; p. 347.
Doll-house. W. Donahey. Nos. 57,614–17; Apr. 26; v. 285; pp. 724–5.
Domestic-boiler stand. L. V. Gelder. No. 57,521; Apr. 12; v. 285; p. 342.
Dress or frock. S. S. Robertson. No. 57,727; Apr. 26; v. 285; p. 745.
Electric arms, Wall-plate for mounting. J. Giammarino. No. 57,634; Apr. 26; v. 285; p. 728.
Electric heater. G. Potstada. No. 57,542; Apr. 12; v. 285; p. 346.
Electric-motor casing. C. A. Rietz. No. 57,483; Apr. 5; v. 285; p. 158.
Electric tool, Portable. S. D. Black and A. G. Decker. No. 57,756; Apr. 26; v. 285; p. 718.
Embroidery. F. Hoenig. Nos. 57,474–6; Apr. 5; v. 285; pp. 156–7.
Feed-trough. A. N. Eaton. No. 57,620; Apr. 26; v. 285; p. 725.
Fender. F. E. Bradfield. No. 57,579; Apr. 26; v. 285; p. 718.
Fish-bait body. W. A. Stolley. No. 57,730; Apr. 26; v. 285; p. 747.
Flag, Automobile service-. J. B. Danforth. No. 57,512; Apr. 12; v. 285; p. 340.

Flag, pennant, sign, emblem, or article of similar nature. A. Le Fevre. No. 57,533; Apr. 12; v. 285; p. 344.
Fly-catcher. G. Simcole. No. 57,735; Apr. 26; v. 285; p. 746.
Gas-heater, Portable. L. P. Lowe. No. 57,687; Apr. 26; v. 285; p. 738.
Gin and delinter saw teeth, Cleaning and alining device for. J. Wilson. No. 57,561; Apr. 12; v. 285; p. 350.
Glass globe, Prismatic. W. A. Dorey. No. 57,618; Apr. 26; v. 285; p. 725.
Glass goblet or similar article. J. O. Balda. No. 57,570; Apr. 26; v. 285; p. 717.
Glass store-fronts, Bar for holding plate-. G. W. Davis. No. 57,590; Apr. 26; v. 285; p. 720.
Glove. H. Eisenstein. No. 59,626; Apr. 26; v. 285; p. 727.
Graphophone. C. Dittmar. No. 57,594; Apr. 26; v. 285; p. 721.
Grass mat. W. T. Case. Nos. 57,504–10; Apr. 12; v. 285; pp. 339–40.
Hairpin. G. Hake. No. 57,645; Apr. 26; v. 285; p. 730.
Hammer, Cushion-. W. Moorhouse. No. 57,700; Apr. 26; v. 285; p. 741.
Hat-lining. A. Doman. No. 57,595; Apr. 26; v. 285; p. 721.
Headlight-dimmer. U. S. McCormick. No. 57,698; Apr. 26; v. 285; p. 740.
Headlight-lens. C. R. Wooten. No. 57,757; Apr. 26; v. 285; p. 750.
Headlights, Antiglare device for automobile-. H. R. Drury. No. 57,619; Apr. 26; v. 285; p. 725.
Heel, Boot or shoe. H. G. Swarr. No. 57,763; Apr. 26; v. 285; p. 748.
Hinge. A. Koetting. No. 57,529; Apr. 12; v. 285; p. 343.
Horse, Rocking-. J. H. Webb. No. 57,751; Apr. 26; v. 285; p. 749.
Hosiery. J. P. Nissen. No. 57,540; Apr. 12; v. 285; p. 345.
Hub-cap or similar article. E. J. Sherlin. No. 57,733; Apr. 26; v. 285; p. 746.
Jar. R. J. Maurer. No. 57,696; Apr. 26; v. 285; p. 739.
Jar or similar container. J. C. Morrison. No. 57,707; Apr. 26; v. 285; p. 741.
Jug, Syrup-. A. J. Vits. No. 57,486; Apr. 5; v. 285; p. 158.
Kitchen-reminder and advertising-chart, Combined. E. E. Swihart. No. 57,744; Apr. 26; v. 285; p. 748.
Knife and fork, Combination. J. H. Lickert. No. 57,683; Apr. 26; v. 285; p. 737.
Knife, Potato-. J. H. Lickert. No. 57,534; Apr. 12; v. 285; p. 344.
Lace. M. H. Daudy. Nos. 57,513–14; Apr. 12; v. 285; p. 340.
Lace. F. Hoenig. Nos. 57,464–73; Apr. 5; v. 285; pp. 155–6.
Lamp-globe. J. W. Gosling. No. 57,462; Apr. 5; v. 285; p. 154.
Letter-head. W. P. Southard. No. 57,546; Apr. 12; v. 285; p. 347.
Lifting-jack. J. C. Kopf. No. 57,073; Apr. 26; v. 285; p. 735.
Lighting-fixture. H. C. Adam. No. 57,563; Apr. 26; v. 285; p. 716.
Lighting-fixture. F. K. Maerz. Nos. 57,692–3; Apr. 26; v. 285; p. 739.
Lighting-fixture arm. H. C. Adam. No. 57,562; Apr. 26; v. 285; p. 716.
Lighting-fixture arm. S. Kostszewski. No. 57,674; Apr. 26; v. 285; p. 735.
Lighting-fixture arm. F. K. Maerz. Nos. 57,690–1; Apr. 26; v. 285; p. 738.
Lighting-fixture-bowl support. H. V. Willman. No. 57,755; Apr. 26; v. 285; p. 750.
Lighting-fixture loop. F. E. Chambers. No. 57,585; Apr. 26; v. 285; p. 719.
Lighting-fixture loop. G. E. McFadden. No. 57,699; Apr. 26; v. 285; p. 740.
Lighting-fixture plate. G. Westphal. No. 57,753; Apr. 26; v. 285; p. 749.
Lighting-globe. W. Harrison. No. 57,463; Apr. 5; v. 285; p. 154.
Mask, Respirator-. J. W. Knoblock. No. 57,527; Apr. 12; v. 285; p. 343.
Match-box holder. C. G. Watson. No. 57,750; Apr. 26; v. 285; p. 749.
Match-receptacle. F. A. Fuller. No. 57,632; Apr. 26; v. 285; p. 728.
Musical instruments, Mouthpiece for. E. A. Couturier. No. 57,511; Apr. 12; v. 285; p. 340.
Nail-set. B. W. Frampton. No. 57,630; Apr. 26; v. 285; p. 727.
Name-plate. G. M. Webber. No. 57,752; Apr. 26; v. 285; p. 749.
Netted fabric. H. T. Mendelsohn. No. 57,539; Apr. 12; v. 285; p. 345.
Oil-stove and lamp-frame, Combined. A. E. K. Lukaszewska. No. 57,688; Apr. 26; v. 285; p. 738.
Packing-gaskets, Display-package of. F. A. Laraway. No. 57,531; Apr. 12; v. 285; p. 344.
Pencil. M. P. D. Fortune. No. 57,520; Apr. 12; v. 285; p. 342.
Pennant. E. C. Briggs. No. 57,583; Apr. 26; v. 285; p. 719.
Phonetic instruments, Housing for. H. G. Pape. No. 57,718; Apr. 26; v. 285; p. 743.
Phonograph-cabinet. R. C. Almone. Nos. 57,564–5; Apr. 26; v. 285; p. 716.
Phonograph-cabinet. W. B. Hollingshead. No. 57,652; Apr. 26; v. 285; p. 731.
Phonograph-cabinet. A. F. La Pierre. Nos. 57,678–9; Apr. 26; v. 285; p. 736.
Phonograph, Cabinet-. W. Lane. No. 57,680; Apr. 26; v. 285; p. 736.
Pin or emblem, Class. J. C. Miller. No. 57,704; Apr. 26; v. 285; p. 741.
Pitcher. A. J. Vits. No. 57,487; Apr. 5; v. 285; p. 158.
Plaque or thermometer-support. C. J. Balliett. No. 57,460; Apr. 5; v. 285; p. 154.
Plate or similar article. A. F. Hancock. No. 57,646; Apr. 26; v. 285; p. 730.
Plug-contact device. W. E. Nourse. No. 57,713; Apr. 26; v. 285; p. 742.
Plug receptacle, Attachment-. H. Hubbell. No. 57,655; Apr. 26; v. 285; p. 732.
Powder-container or similar receptacle. C. S. Humphrey. Nos. 57,524–5; Apr. 12; v. 285; p. 342.
Prick-punch, nail-set, or article of similar nature. A. H. Starrett. No. 57,548; Apr. 12; v. 285; p. 347.
Puff for applying powder and liquid preparations. F. Lobl. No. 57,685; Apr. 26; v. 285; p. 737.
Pyrometer. H. B. Brown. No. 57,493; Apr. 12; v. 285; p. 337.
Radiator, Automobile-. F. Richard. No. 57,726; Apr. 26; v. 285; p. 745.
Radiator, Automobile-. M. H. L. Sizaire. No. 57,736; Apr. 26; v. 285; p. 746.
Radiator-cap. S. Jaffe. No. 57,658; Apr. 26; v. 285; p. 732.
Radiator-cap. H. C. Stutz. No. 57,741; Apr. 26; v. 285; p. 747.
Radiator cap, Automobile-. J. W. Lake and J. R. Chesnut. No. 57,677; Apr. 26; v. 285; p. 736.
Radiator-shell. W. Sparks. No. 57,738; Apr. 26; v. 285; p. 747.
Radiator shell or hood, Automobile-. E. C. De Smet. No. 57,592; Apr. 26; v. 285; p. 721.
Razor-knife. J. P. Gits. No. 57,636; Apr. 26; v. 285; p. 729.
Receptacles, Casing for street-. F. F. Dickerman. No. 57,593; Apr. 26; v. 285; p. 721.
Respirator. J. W. Knoblock. No. 57,528; Apr. 12; v. 285; p. 343.
Ring. M. Rossein. No. 57,728; Apr. 26; v. 285; p. 745.
Ring, Finger-. J. A. Jacobs. No. 57,657; Apr. 26; v. 285; p. 732.
Ring or similar article. J. W. Mayer. No. 57,588; Apr. 12; v. 285; p. 345.
Ring, Wedding-. M. H. Lebolt. No. 57,681; Apr. 26; v. 285; p. 737.
Road-guide. T. C. Angerstein. No. 57,569; Apr. 26; v. 285; p. 717.
Road-marker. T. C. Angerstein. No. 57,568; Apr. 26; v. 285; p. 717.
Rocking-horse. J. H. Webb. Nos. 57,558–9; Apr. 12; v. 285; p. 349.
Rug. A. H. Waldo. Nos. 57,550–57; Apr. 12; v. 285; pp. 347–9.
Saw-set. C. Bodmer. No. 57,578; Apr. 26; v. 285; p. 285; p. 718.
Scarf. A. Lazar. No. 57,532; Apr. 12; v. 285; p. 344.
Scarfpin or similar article. E. J. Green. No. 57,638; Apr. 26; v. 285; p. 720.
Sewage apparatus. L. P. Berry, Jr. No. 57,575; Apr. 26; v. 285; p. 718.
Shears, Tailor's. E. A. Wackt. No. 57,749; Apr. 26; v. 285; p. 749.
Shelf. J. Cordes. No. 57,587; Apr. 26; v. 285; p. 720.
Shock-absorber. O. E. Leighton. No. 57,682; Apr. 26; v. 285; p. 737.
Sign. F. W. Wilson. No. 57,756; Apr. 26; v. 285; p. 750.
Sink-scraper. W. J. Hines. No. 57,649; Apr. 26; v. 285; p. 731.
Sound-reproducing machines, Light attachment for. G. E. Bernecker. No. 57,574; Apr. 26; v. 285; p. 718.
Sprinkler-body. A. K. Brauer. No. 57,582; Apr. 26; v. 285; p. 719.
Statuette, sculpture, or similar article. E. Hoenig. No. 57,651; Apr. 26; v. 285; p. 731.
Stove, Gas-. A. H. Humphrey. No. 57,656; Apr. 26; v. 285; p. 732.
Stove, Portable cook-. F. Kuhn and J. A. Hand. No. 57,478; Apr. 5; v. 285; p. 157.
Strainer. L. Daniels. No. 57,589; Apr. 26; v. 285; p. 720.
Sundae-cup holder. H. Pick. No. 57,720; Apr. 26; v. 285; p. 743.
Talcum-powder box. F. E. Eberhart. Nos. 57,621–5; Apr. 26; v. 285; pp. 726–7.
Talking-machine grill. S. K. Ouzoun-Boghossian. Nos. 57,714–7; Apr. 26; v. 285; p. 743.
Talking-machines, Grille for. S. K. Ouzoun-Boghossian. Nos. 57,481–2; Apr. 5; v. 285; pp. 157–8.
Telephones, Desk-stand for hand-. E. S. McLarn. Nos. 57,700–1; Apr. 26; v. 285; p. 740.
Textile fabric. J. H. Bunting. No. 57,494; Apr. 12; v. 285; p. 337.
Textile fabric. E. Krupicka. No. 57,530; Apr. 12; v. 285; p. 344.

Textile fabric. R. L. Reinhart. No. 57,543; Apr. 12; v. 285; p. 346.
Textile fabric. W. G. Reith. No. 57,544; Apr. 12; v. 285; p. 346.
Thermometer, Desk-. S. C. Lord. No. 57,686; Apr. 26; v. 285; p. 737.
Tire. A. Balthazar and M. B. Shaw. No. 57,571; Apr. 26; v. 285; p. 717.
Tire. R. P. Gourley and H. P. Partenheimer. No. 57,637; Apr. 26; v. 285; p. 729.
Tire. J. P. Kirch. Nos. 57,663–71; Apr. 26; v. 285; pp. 733–5.
Tire. C. F. Ofensend. No. 57,480; Apr. 5; v. 285; p. 157.
Tire. E. Yockey. No. 57,731; Apr. 26; v. 285; p. 746.
Tire. E. Yockey. No. 57,758; Apr. 26; v. 285; p. 750.
Tire-casing. E. D. Belden. Nos. 57,490–1; Apr. 12; v. 285; pp. 336–7.
Tire-casing. F. H. Brewster. No. 57,461; Apr. 5; v. 285; p. 154.
Tire, Elastic vehicle-. J. M. Alderfer. No. 57,566; Apr. 26; v. 285; p. 716.
Tire, Elastic vehicle-. F. E. Shannon. No. 57,732; Apr. 26; v. 285; p. 746.
Tire-chain tool. W. J. Van Kuren. No. 57,549; Apr. 1; v. 285; p. 347.
Tire-placer. C. A. Hornburg. No. 57,654; Apr. 26; v. 285; p. 732.
Tire-tread. A. C. Terrell. No. 57,745; Apr. 26; v. 285; p. 748.
Tire, Vehicle-. E. H. Nahm. No. 57,709; Apr. 26; v. 285; p. 742.
Tires, Non-skid tread for automobile-. E. O. Fritch. No. 57,631; Apr. 26; v. 285; p. 728.
Tool, Combination-. R. E. Kingston and F. W. Woodard. No. 57,662; Apr. 26; v. 285; p. 730.
Toothbrush. A. A. Campbell. No. 57,584; Apr. 26; v. 285; p. 719.
Toy, Figure. C. G. Ecket. No. 57,518; Apr. 12; v. 285; p. 341.
Toy paper aeroplane. B. H. Harris. No. 57,647; Apr. 26; v. 285; p. 731.
Traffic-signal, Physician's. J. B. McAfee, E. D. Benton, and M. K. Davis. No. 57,697; Apr. 26; v. 285; p. 740.
Tray. W. J. Hines. No. 57,650; Apr. 26; v. 285; p. 731.
Type, Font of. M. R. Hall. No. 57 522; Apr. 12; v. 285; p. 342.
Type, Font of. B. F. Mannes. No. 57,536; Apr. 12; v. 285; p. 345.
Vacuum-insulated jug and casing therefor. G. P. Altenberg. No. 57,567; Apr. 26; v. 285; p. 716.
Valve-grinder, Portable electric. S. D. Black and A. G. Decker. No. 57,577; Apr. 26; p. 285; p. 718.
Valves, Cap for air-. P. J. Griffin. No. 57,639; Apr. 26; v. 285; p. 729.
Vehicle top, Motor-. G. E. Madison. No. 57,689; Apr. 26; v. 285; p. 738.
Vehicle, Wheeled. C. C. Church. No. 57,586; Apr. 26; v. 285; p. 720.
Water-heaters, Gas-burner for. L. V. Gelder. No. 57,633; Apr. 26; v. 285; p. 728.
Wheel. F. Richard. No. 57,725; Apr. 26; v. 285; p. 744.
Windshield. J. A. Miller. No. 57,703; Apr. 26; v. 285; p. 741.
Windshields, Sunshade and vizor for vehicle. G. A. Holsberg. No. 57,653; Apr. 26; v. 285; p. 732.
Woven fabric or similar article. L. H. Brewster. No. 57,492; Apr 12; v. 285; p. 337.
Wrench. J. Kropacz. No. 57,676; Apr. 26; v. 285; p. 736.
Wristband-clasp. F. G. Gruen. No. 57,641; Apr. 26; v. 285; p. 730.

ALPHABETICAL LIST OF TRADE-MARKS.

Abrasive papers and cloths. United States Sand Paper Co. No. 141,453; Apr. 19; v. 285; p. 569.
Adding-machines. Erie Calculator Co. No. 141,548; Apr. 26; v. 285; p. 779.
Alkaline rhubarb compound. William S. Merrell Company. No. 141,608; Apr. 26; v. 285; p. 781.
Alloy, Gold. Arnold Schroetter & Co. No. 141,667; Apr. 26; v. 285; p. 783.
Ammeters, voltmeters, and wattmeters, Pocket. Metric Appliance Corporation. No. 141,169; Apr. 12; v. 285; p. 382.
Ant-destroyer. B. Heller & Co. No. 141,292; Apr. 12; v. 285; p. 388.
Antileak compound. Cumings Brothers. No. 141,106; Apr. 12; v. 285; p. 380.
Apparel, Ladies' wearing-. E. Grossman. No. 141,754; Apr. 26; v. 285; p. 788.
Apples, Evaporated. Northwest Evaporating Company. No. 141,626; Apr. 26; v. 285; p. 782.
Ash-sifters. Nichthauser & Levy. No. 141,792; Apr. 26; v. 285; p. 791.
Automobile and furniture polish. H. Hilton. No. 141,139; Apr. 12; v. 285; p. 381.
Automobile-brake lining. Cumings Brothers. No. 141,105; Apr. 12; v. 285; p. 380.
Automobile-body, piano, &c., polish. F. M. Pisculli. No. 141,201; Apr. 12; v. 285; p. 383.
Automobile tools and accessories. Cantwell-Miller Manufacturing Company. No. 141,332; Apr. 19; v. 285; p. 505.
Automobile-whistles, &c. Interstate Tool and Mfg. Co. No. 141,576; Apr. 26; v. 285; p. 780.
Automobiles. Gramm Bernstein Motor Truck Co. No. 141,129; Apr. 12; v. 285; p. 381.
Automobiles. Maxwell Motor Company. No. 141,607; Apr. 26; v. 285; p. 781.
Automobiles and motor-trucks. Standard Steel Car Company. No. 141,057; Apr. 5; v. 285; p. 187.
Automobiles, &c., Starting fluid for. A. A. Koch. No. 141,587; Apr. 26; v. 285; p. 780.
Automobiles, Front-wheel spindles for Ford. Motor Spindle Corporation. No. 141,619; Apr. 26; v. 285; p. 781.
Automobiles, motor-trucks, trailers. Studebaker Corporation. No. 141,690; Apr. 26; v. 285; p. 783.
Axle-stands, babbitting outfits, burning-in machines, &c. Danielson Tool Company. No. 141,530; Apr. 26; v. 285; p. 779.
Bakery machinery. Peerless Bread Machine Company. No. 141,795; Apr. 26; v. 285; p. 792.
Bakery products. Massachusetts Baking Company. No. 141,167; Apr. 12; v. 285; p. 382.
Bath-robes, Infants'. Federal Underwear Co. No. 141,354; Apr. 19; v. 285; p. 566.
Batteries, Dry. Carbon Products Company. No. 141,510; Apr. 26; v. 285; p. 778.
Batteries, flashlights, &c., Electric. National Carbon Company. No. 141,183; Apr. 12; v. 285; p. 382.
Batteries, Storage, lighting, and starting. Electrolyte Storage Battery Co. No. 141,288; Apr. 12; v. 285; p. 387.
Beams, studding, and joists of metal. Northwestern Expanded Metal Company. No. 141,625; Apr. 26; v. 285; p. 782.
Beans, Baked. Edwards Food Products Company. No. 141,350; Apr. 19; v. 285; p. 566.
Bearing-fitting compound, Abrasive. United States Products Company. No. 141,258; Apr. 12; v. 285; p. 385.
Bedticking. Blue Buckle Cotton Mills. No. 141,320; Apr. 19; v. 285; p. 565.
Belt-fasteners, Hinged. Flexible Steel Lacing Company. No. 141,744; Apr. 26; v. 285; p. 787.
Belt-hooks. National Ring Traveler Co. No. 141,622; Apr. 26; v. 285; p. 781.
Belts. United & Globe Rubber Company. No. 141,452; Apr. 19; v. 285; p. 569.
Belts for supporting outer garments. Marathon Tire & Rubber Company. No. 141,601; Apr. 26; v. 285; p. 781.
Belting. "Scandinavia" Belting Ltd. No. 141,214; Apr. 12; v. 285; p. 383.
Belting, hose, and packing. Imperial Belting Company. No. 141,145; Apr. 12; v. 285; p. 381.
Belting, Leather. J. J. Freadrich. No. 141,746; Apr. 26; v. 285; p. 787.
Belting, Leather. W. S. Nott Company. No. 141,627; Apr. 26; v. 285; p. 782.
Belting, Leather. J. E. Rhoads & Sons. No. 141,802; Apr. 26; v. 285; p. 792.
Belting, Stitched canvas. W. D. Allen Manufacturing Company. No. 141,070; Apr. 12; v. 285; p. 379.
Beverage, Malt. Paterson Brewing & Malting Company. Nos. 141,634–5; Apr. 26; v. 285; p. 782.
Beverage, Maltless. Lash's Products Co. No. 141,401; Apr. 19; v. 285; p. 568.
Beverage, Non-alcoholic. American Beverages Co. No. 141,473; Apr. 26; v. 285; p. 777.
Beverage, Non-alcoholic malt. Lexington Brewing Company. No. 141,594; Apr. 26; v. 285; p. 781.
Beverage, Non-alcoholic maltless. L. Schiller. No. 141,433; Apr. 19; v. 285; p. 569.
Beverage, Non-alcoholic maltless. Schuster Co. No. 141,217; Apr. 12; v. 285; p. 383.
Beverage, Non-alcoholic, non-cereal. Say Tay Co. No. 141,213; Apr. 12; v. 285; p. 383.
Beverage, Non-alcoholic, non-cereal. The Bee Bee Confection Company. No. 141,318; Apr. 19; v. 285; p. 565.
Beverage, Unfermented, non-alcoholic. The Sweet Valley Products Co. No. 141,244; Apr. 12; v. 285; p. 384.
Beverages. Druggist Sundries Company. No. 141,114; Apr. 12; v. 285; p. 385.
Beverages. Peter Hand Company. No. 141,055; Apr. 5; v. 285; p. 187.
Beverages and syrups for making same, Non-alcoholic carbonated. Kool Kola Co. No. 141,589; Apr. 26; v. 285; p. 780.
Beverages and syrups for making the same. World Bottling Co., Ltd. No. 141,276; Apr. 12; v. 285; p. 385.
Beverages, Cereal. Consumers Brewing Company. No. 141,345; Apr. 19; v. 285; p. 566.

Beverages, Cereal malt. Gottlieb Bauernschmidt Straus Brewing Company. No. 141,128; Apr. 12; v. 285; p. 381.
Beverages, Malted non-alcoholic. Dennos Food Company. No. 141,107; Apr. 12; v. 285; p. 380.
Beverages, Non-alcoholic. Cairo Food Products Company. No. 141,503; Apr. 26; v. 285; p. 778.
Beverages sold as soft drinks. M. H. Leister. No. 141,160; Apr. 12; v. 285; p. 382.
Bicycles, tricycles, &c. Broadway Cycle Co. No. 141,327; Apr. 19; v. 285; p. 565.
Blank forms. A. S. Gilman Printing Company. No. 141,127; Apr. 12; v. 285; p. 381.
Blankets, All-wool. R. H. Macy & Co. No. 141,600; Apr. 26; v. 285; p. 781.
Blouses and overalls. Brown Durrell Co. No. 141,328; Apr. 19; v. 285; p. 565.
Board, Binders'. C. B. Hewitt Brothers. No. 141,381; Apr. 19; v. 285; p. 567.
Boiler compound, disinfectant, antifreeze solution. Jewett & Sowers Oil Co. No. 141,582; Apr. 26; v. 285; p. 780.
Books and forms, filing-cards, &c., Blank. D. G. McCarty. No. 141,408; Apr. 19; v. 285; p. 568.
Books and pamphlets. E. P. Harris. No. 141,135; Apr. 12; v. 285; p. 381.
Books, magazines, circulars. Allied Labor Press Association. No. 141,071; Apr. 12; v. 285; p. 379.
Boots, shoes, slippers, pumps, oxfords, Women's and misses'. J. Lindner. No. 141,406; Apr. 19; v. 285; p. 568.
Bracelets, brooches, finger-rings. Goldman-Kolber Co. No. 141,561; Apr. 26; v. 285; p. 780.
Bread. Liberty Baking Company. No. 141,404; Apr. 19; v. 285; p. 568.
Bread. Ward Baking Company. No. 141,460; Apr. 19; v. 285; p. 569.
Bread. Ward Baking Company. No. 141,713; Apr. 26; v. 285; p. 784.
Bread and cake. Ward Bros. Co. No. 141,303; Apr. 12; v. 285; p. 389.
Brisling and sild. Overseas Export Co. Nos. 141,191–2; Apr. 12; v. 285; p. 383.
Bronze bars, Cored and solid. Lumen Bearing Company. No. 141,767; Apr. 26; v. 285; p. 789.
Brushes and mops. Simmons Hardware Company. No. 141,807; Apr. 26; v. 285; p. 793.
Brushes, Lather-. Florence Manufacturing Company. No. 141,745; Apr. 26; v. 285; p. 787.
Burlap. Marshall Field & Company. No. 141,293; Apr. 12; v. 285; p. 388.
Burners, coal heating-stoves, &c., Gas and oil. National Supply Company. No. 141,185; Apr. 12; v. 285; p. 382.
Butter, eggs, cheese, &c. Sherman White & Company. No. 141,226; Apr. 12; v. 285; p. 384.
Buttons, Cuff-. Baer & Wilde Company. No. 141,730; Apr. 26; v. 285; p. 785.
Barytes, (sulfate of barium,) &c. Nulsen Corporation, Manufacturers. No. 141,628; Apr. 26; v. 285; p. 782.
Cakes. Grennan Cake Corporation. No. 141,130; Apr. 12; v. 285; p. 381.
Cakes, cookies, and fried cakes. Grennan Cake Corporation. No. 141,566; Apr. 26; v. 285; p. 780.
Cakes, crackers, and biscuits, Loose Wiles Biscuit Company. No. 141,596; Apr. 26; v. 285; p. 781.
Calipers and dividers and combination-squares for measuring purposes, measuring-tapes, and rules. Consolidated Tool Works Inc. No. 141,341; Apr. 19; v. 285; p. 566.
Candies. Candy Company of America. No. 141,508; Apr. 26; v. 285; p. 778.
Candies. Schwabacher Bros. & Co. No. 141,668; Apr. 26; v. 285; p. 783.
Candies and chocolates. Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 141,604; Apr. 26; v. 285; p. 781.
Candies, Chocolate-coated. K. Janiece. No. 141,580; Apr. 26; v. 285; p. 780.
Candies, Hard. Hardie Bros. Co. No. 141,134; Apr. 12; v. 285; p. 381.
Candy. Ambrosia Chocolate Cream Co. No. 141,471; Apr. 26; v. 285; p. 777.
Candy. Ambrosia Chocolate Cream Co. No. 141,724; Apr. 26; v. 285; p. 784.
Candy. Belle Mead Sweetsmakers. No. 141,491; Apr. 26; v. 285; p. 777.
Candy. George H. Fritz & Sons. No. 141,554; Apr. 26; v. 285; p. 779.
Candy. Gramercy Chocolate Company. No. 141,563; Apr. 26; v. 285; p. 780.
Candy. N. C. Hall. No. 141,571; Apr. 26; v. 285; p. 780.
Candy. Mills Candy Company. No. 141,613; Apr. 26; v. 285; p. 781.
Candy. Mint Products Co. Nos. 141,176–81; Apr. 12; v. 285; p. 382.
Candy. Package Confectionery Company. No. 141,193; Apr. 12; v. 285; p. 383.
Candy. S. T. Peterson. No. 141,639; Apr. 26; v. 285; p. 782.
Candy. Syracuse Candy Works Inc. No. 141,246; Apr. 12; v. 285; p. 384.
Candy. United Retail Candy Stores. Nos. 141,706–7; Apr. 26; v. 285; p. 784.
Candy. Vogan Candy Company. No. 141,710; Apr. 26; v. 285; p. 784.
Candy. Val. Blatz Jr. Candy Co. No. 141,708; Apr. 26; v. 285; p. 784.
Candy. C. Viebrock. No. 141,457; Apr. 19; v. 285; p. 569.
Candy, Chocolate. Metro Chocolate Co. No. 141,610; Apr. 26; v. 285; p. 781.
Candy mixture, Hard-. W. G. Voliva. No. 141,458; Apr. 19; v. 285; p. 569.
Candles. Uddo Brothers Company, Inc. No. 141,255; Apr. 12; v. 285; p. 385.
Canned fish. C. M. Everitt & J. P. Todd, Inc. No. 141,544; Apr. 26; v. 285; p. 779.
Canned fish. Great Western Packing Co. No. 141,564; Apr. 26; v. 285; p. 780.
Canned fish. L. N. Jackson & Company. No. 141,149; Apr. 12; v. 285; p. 381.
Canned fish. Thlinket Packing Corporation. Nos. 141,058–62; Apr. 5; v. 285; p. 187.
Canned fish. Thlinket Packing Corporation. No. 141,695; Apr. 26; v. 285; p. 783.
Canned fruits. J. C. Ainsley Packing Co. No. 141,468; Apr. 26; v. 285; p. 777.
Canned fruits. A. O. Andersen & Co. Nos. 141,478–80; Apr. 26; v. 285; p. 777.
Canned fruits. Hood River Canning Company. No. 141,387; Apr. 19; v. 285; p. 567.
Canned fruits and tomatoes. Colorado Packing Corporation. No. 141,340; Apr. 19; v. 285; p. 566.
Canned fruits and vegetables. California Co-Operative Canneries. No. 141,089; Apr. 12; v. 285; p. 379.
Canned fruits and vegetables. Bayside Canning Co. Nos. 141,488–9; Apr. 26; v. 285; p. 777.
Canned fruits and vegetables. California Growers Association. Nos. 141,504–6; Apr. 26; v. 285; p. 778.
Canned fruits and vegetables. Thomas J. Myer & Co. No. 141,620; Apr. 26; v. 285; p. 781.
Canned fruits, berries, and vegetables. H. A. Baker, Inc. No. 141,315; Apr. 19; v. 285; p. 565.
Canned fruits, vegetables, and fish. R. E. Cotter Company. No. 141,103; Apr. 12; v. 285; p. 380.
Canned fruits, vegetables, and fish, coffee, spices. Guyer & Calkins Co. No. 141,568; Apr. 26; v. 285; p. 780.
Canned fruits, vegetables, and grapes. Pratt-Low Preserving Company. Nos. 141,800–1; Apr. 26; v. 285; p. 792.
Canned goods, fish, teas, coffees. H. T. Quinlan & Company. No. 141,210; Apr. 12; v. 285; p. 383.
Canned tuna fish, albacore, &c. Seacoast Canning Co. No. 141,219; Apr. 12; v. 285; p. 383.
Canned tuna fish, White Star Canning Co. No. 141,718; Apr. 26; v. 285; p. 784.
Canned vegetables. Sears and Nichols Canning Co. No. 141,222; Apr. 12; v. 285; p. 384.
Canned vegetables. Sears and Nichols Canning Co. Nos. 141,671–2; Apr. 26; v. 285; p. 783.
Canned vegetables and fruits. Green Mountain Packing Company. No. 141,367; Apr. 19; v. 285; p. 567.
Canned vegetables and fruits, coffee, spices. Jett & Wood Mercantile Company. No. 141,581; Apr. 26; v. 285; p. 780.
Canoe, rowboats, yachts, &c. A. Yelle. No. 141,722; Apr. 26; v. 285; p. 784.
Cantaloups. Associated Fruit Co. No. 141,313; Apr. 19; v. 285; p. 565.
Cantaloups. Half Moon Fruit & Produce Co. No. 141,570; Apr. 26; v. 285; p. 780.
Cantaloups. Wapato Melon Growers Association. No. 141,269; Apr. 12; v. 285; p. 385.
Carbon-remover. The Patterson-Sargent Company. No. 141,197; Apr. 12; v. 285; p. 383.
Carbon-sheets. Columbia Carbon Company. No. 141,739; Apr. 26; v. 285; p. 786.
Cards, Index-. H. C. Gauss. No. 141,124; Apr. 12; v. 285; p. 380.
Carriages, &c., Baby-. Children's Vehicle Corporation. No. 141,336; Apr. 19; v. 285; p. 566.
Cars, Motor-. Anderson Motor Company. No. 141,312; Apr. 19; v. 285; p. 565.
Cars, Motor-. Lincoln Motor Company. No. 141,162; Apr. 12; v. 285; p. 382.
Cars, parts, and accessories. A. V. Roe & Co. No. 141,426; Apr. 19; v. 285; p. 568.
Cars, Trimmings for railway-. Adams & Westlake Company. No. 141,466; Apr. 26; v. 285; p. 777.
Cast-tooth sprockets, cut-tooth sprockets, friction-clutches, speed-reducers. Union Chain & Manufacturing Company. No. 141,256; Apr. 12; v. 285; p. 385.
Cement to bind fire-bricks, Refractory. Pyro Products Company. No. 141,208; Apr. 12; v. 285; p. 383.
Cereal extracts for use in the manufacture of bread. Corby Company. No. 141,525; Apr. 26; v. 285; p. 778.
Cereal, Wheat-bran. Brangesta Company. No. 141,497; Apr. 26; v. 285; p. 778.
Cheese-cloth in the piece. Marshall Field & Company. No. 141,774; Apr. 26; v. 285; p. 790.
Chicks, Live. Smith Standard Company. No. 141,680; Apr. 26; v. 285; p. 783.
Chocolate and hard candies. Shoot Chocolate Company. No. 141,677; Apr. 26; v. 285; p. 783.
Chocolate, nut-bars, &c., Sweet. Hooton Chocolate Company. No. 141,575; Apr. 26; v. 285; p. 780.
Clarinet and saxophone mouthpieces. Woodwind Company. No. 141,810; Apr. 26; v. 285; p. 794.
Clay, Colloidal. W. Feldenheimer. No. 141,120; Apr. 12; v. 285; p. 380.

Cleaner, White-shoe and straw-hat. B. Ettenson. No. 141,352; Apr. 19; v. 285; p. 566.
Cleaning preparation for metal surfaces, Oily. Superior Laboratories. No. 141,242; Apr. 12; v. 285; p. 384.
Cleaning, &c., wads, pads, rolls, and cloths. Brillo Manufacturing Company. No. 141,499; Apr. 26; v. 285; p. 778.
Cleansing, scouring, and polishing powder for metals, glass, &c. Texas Oil, Gas & Mineral Products Company. No. 141,446; Apr. 19; v. 285; p. 569.
Clock and watch dials. T. Bargman. No. 141,083; Apr. 12; v. 285; p. 379.
Clothing. Favorite Knitting Company. No. 141,119; Apr. 12; v. 285; p. 380.
Clothing. A. S. W. Grundy. No. 141,131; Apr. 12; v. 285; p. 381.
Clothing. Harley-Davidson Motor Co. No. 141,757; Apr. 26; v. 285; p. 788.
Clothing. Jordan Marsh Company. No. 141,148; Apr. 12; v. 285; p. 381.
Clothing. A. Krolik & Company. No. 141,400; Apr. 19; v. 285; p. 568.
Clothing. La France Novelty Co., Inc., (now by change of name Alphen, Inc.) No. 141,157; Apr. 12; v. 285; p. 381.
Clothing. Rice-Stix Dry Goods Company. No. 141,803; Apr. 26; v. 285; p. 792.
Clothing. Société Anonyme Tissage et Bonneterie de Troyes. No. 141,683; Apr. 26; v. 285; p. 783.
Clothing. Wyman Partridge & Co. No. 141,820; Apr. 26; v. 285; p. 794.
Clothing, Articles of. Lack Manufacturing Company. No. 141,590; Apr. 26; v. 285; p. 780.
Clothing, Articles of. Mechanische Trikotweberei Stuttgart Ludwig Maier & Co. No. 141,412; Apr. 19; v. 285; p. 568.
Clothing, Articles of. Vanity Fair Silk Mills. No. 141,456; Apr. 19; v. 285; p. 569.
Coal-cutting machines and coal and ore conveying machinery. Goodman Manufacturing Company. No. 141,752; Apr. 26; v. 285; p. 787.
Coats, cloaks, &c., Women's children's, and infants'. Salt's Textile Manufacturing Company. No. 141,212; Apr. 12; v. 285; p. 383.
Coats, Infants' and children's. Le Rose Co., The. No. 141,403; Apr. 19; v. 285; p. 568.
Coats, pants, overalls. Klimax Overall Company. No. 141,586; Apr. 26; v. 285; p. 780.
Cocoa. Ideal Cocoa & Chocolate Co. Nos. 141,760–1; Apr. 26; v. 285; p. 788.
Coffee. Adam Roth Grocery Company. No. 141,649; Apr. 26; v. 285; p. 782.
Coffee. J. H. Bailey. No. 141,485; Apr. 26; v. 285; p. 777.
Coffee. Levering Coffee Co. No. 141,593; Apr. 26; v. 285; p. 781.
Coffee. Merryweather Coffee, Tea & Spice Co. No. 141,413; Apr. 19; v. 285; p. 568.
Colors for use in manufacture of inks and inking material, Dry. Mangano Manufacturing Company. No. 141,163; Apr. 12; v. 285; p. 382.
Concrete and cement-hardeners. General Chemical Company. No. 141,125; Apr. 12; v. 285; p. 381.
Concrete and cement hardeners. General Chemical Company. No. 141,360; Apr. 19; v. 285; p. 566.
Concrete-testing molds. Standard Concrete Apparatus Co. No. 141,238; Apr. 12; v. 285; p. 384.
Confection, Popcorn. O-Pee-Chee Gum Co. No. 141,630; Apr. 26; v. 285; p. 782.
Confection, Popcorn. R. S. Sherratt. No. 141,676; Apr. 26; v. 285; p. 783.
Confections, Fruit. A. A. Suvi. No. 141,691; Apr. 26; v. 285; p. 783.
Confectioners' products. Senneff-Herr Co. No. 141,223; Apr. 12; v. 285; p. 384.
Confectioner's product. Senneff-Herr Co. No. 141,669; Apr. 26; v. 285; p. 783.
Connection-clips. R. S. Mueller. No. 141,182; Apr. 12; v. 285; p. 382.
Construction materials. Terrasit Industrie G. m. b. H. No. 141,694; Apr. 26; v. 285; p. 783.
Cooking compound. Lever Brothers Company. No. 141,161; Apr. 12; v. 285; p. 382.
Cornmeal. J. E. Newton. No. 141,188; Apr. 12; v. 285; p. 382.
Corsets. Bay State Corset Company. No. 141,732; Apr. 26; v. 285; p. 786.
Corsets. Ivy Corset Company. No. 141,762; Apr. 26; v. 285; p. 788.
Corsets. Stern Brothers. No. 141,688; Apr. 26; v. 285; p. 783.
Corsets, brassières, corset-covers. Weingarten Bros. No. 141,817; Apr. 26; v. 285; p. 794.
Cotton goods in the piece. T. H. Haywood. No. 141,574; Apr. 26; v. 285; p. 780.
Cotton goods in the piece. Wm. Simpson, Sons & Co. No. 141,678; Apr. 26; v. 285; p. 783.
Cotton goods in the piece. Smith, Hogg & Co. No. 141,809; Apr. 26; v. 285; p. 793.
Cotton piece goods. Chas. Kohlman & Co., Inc. No. 141,156; Apr. 12; v. 285; p. 381.
Cotton piece goods. Hinck & Muller. No. 141,140; Apr. 12; v. 285; p. 381.
Cotton piece goods. Hinck & Muller. No. 141,382; Apr. 19; v. 285; p. 567.
Cotton piece goods. Mills & Gibb Corp. No. 141,781; Apr. 26; v. 285; p. 790.
Cotton piece goods. Pepperell Manufacturing Company. No. 141,199; Apr. 12; v. 285; p. 383.
Cotton piece goods. Warner-Godfrey Co. No. 141,461; Apr. 19; v. 285; p. 569.
Crayons. Standard Oil Company of New York. No. 141,686; Apr. 26; v. 285; p. 783.
Cream and soap, Shaving. Simmons Hardware Company. No. 141,439; Apr. 19; v. 285; p. 569.
Cream, Cosmetic. Crème Coco Company. No. 141,344; Apr. 19; v. 285; p. 566.
Cream, Face-. A. W. Earley. No. 141,287; Apr. 12; v. 285; p. 387.
Cream for freckles. E. E. Kirkland, Jr. No. 141,585; Apr. 26; v. 285; p. 780.
Cream powder, perfumes, &c. Beaute-Viva Co. No. 141,490; Apr. 26; v. 285; p. 777.
Cream, Toilet. A. C. Onnen. No. 141,421; Apr. 19; v. 285; p. 568.
Creepers, rompers, &c. Arcuni & Eichwald. No. 141,076; Apr. 12; v. 285; p. 379.
Creepers, rompers, and boys' suits. Rust & Thompson. No. 141,665; Apr. 26; v. 285; p. 782.
Crushing, cutting, grinding, &c., machinery. Paul O. Abbé Inc. No. 141,305; Apr. 19; v. 285; p. 565.
Cutting, carving, &c., implements, Hand. Henkel-Clauss Co. No. 141,758; Apr. 26; v. 285; p. 788.
Cutlery and tools. Pitard's, Inc. No. 141,202; Apr. 12; v. 285; p. 383.
Cycle-saddles. (Leather.) J. B. Brooks & Company. No. 141,500; Apr. 26; v. 285; p. 778.
Dental powders, massage-creams, &c. Gosselin Trading Corporation. No. 141,137; Apr. 12; v. 285; p. 381.
Dresses. Crown, Inc. No. 141,528; Apr. 26; v. 285; p. 779.
Dresses. G. E. Jackson. No. 141,147; Apr. 12; v. 285; p. 381.
Dresses. Morris & Company. No. 141,618; Apr. 26; v. 285; p. 781.
Dresses, Children's. Cooper, Coate & Casey Dry Goods Co. No. 141,524; Apr. 26; v. 285; p. 778.
Dresses, suits, &c., Ladies'. I. Zimetbaum. No. 141,280; Apr. 12; v. 285; p. 385.
Dresses, Women's outer. S. S. Robertson. No. 141,431; Apr. 19; v. 285; p. 568.
Drills, Twist-. National Twist Drill & Tool Company. No. 141,418; Apr. 19; v. 285; p. 568.
Elaterite used as a paint. G. R. Raymond. No. 141,646; Apr. 26; v. 285; p. 782.
Electric generators. Harley-Davidson Motor Co. No. 141,291; Apr. 12; v. 285; p. 388.
Electric-lighting fixtures, Semi-indirect. Stransky Mfg. Co. No. 141,689; Apr. 26; v. 285; p. 783.
Electric portable lamps and electric-lamp supports. A. C. Penn, Inc. No. 141,298; Apr. 12; v. 285; p. 389.
Electric shovels. Marion Steam Shovel Company. No. 141,294; Apr. 12; v. 285; p. 388.
Electrical apparatus. P. A. Geier Company. No. 141,556; Apr. 26; v. 285; p. 779.
Electrical apparatus. F. C. Mesa. No. 141,415; Apr. 19; v. 285; p. 568.
Electrical attachment-plugs, sockets, and connectors. M. Propp Co. No. 141,206; Apr. 12; v. 285; p. 383.
Electrical automotive accessories. Atwater Kent Manufacturing Company. No. 141,282; Apr. 12; v. 285; p. 387.
Electrical insulating material. Diamond State Fibre Company. No. 141,532; Apr. 26; v. 285; p. 779.
Electrical lights for automobiles. A. R. Gross. No. 141,368; Apr. 19; v. 285; p. 567.
Electrical mechanism and apparatus. Societe des Moteurs Gnome et Rhone. No. 141,233; Apr. 12; v. 285; p. 384.
Electric switches and machines. Splitdorf Electrical Company. No. 141,440; Apr. 19; v. 285; p. 569.
Electrical tools. Black & Decker Manufacturing Co. No. 141,284; Apr. 12; v. 285; p. 387.
Electrical wires and cables. Chicago Insulated Wire & Mfg. Co. No. 141,515; Apr. 26; v. 285; p. 778.
Embroidery cotton, sewing-silks, knitting-yarn, &c. F. A. Patrick & Co. No. 141,794; Apr. 26; v. 285; p. 791.
Enamel. Boston Varnish Company. No. 141,324; Apr. 19; v. 285; p. 565.
Enamels, liquid shellac, &c., Air-drying and striping. Harley-Davidson Motor Co. No. 141,756; Apr. 26; v. 285; p. 788.
Engine, automobile, piston, and compressor rings. McQuay Norris Mfg. Co. No. 141,770; Apr. 26; v. 285; p. 789.
Engines for use in propelling motor-cars, motorcycles, &c., Internal-combustion. A. Harper Son & Bean. No. 141,373; Apr. 19; v. 285; p. 567.
Engines, Vaporizing attachment for internal-combustion. American Sub-Carbureter Co. No. 141,311; Apr. 19; v. 285; p. 565.
Extracts for food-flavoring. Foote & Jenks. No. 141,550; Apr. 26; v. 285; p. 779.
Eyeglasses and spectacles and parts thereof. Bishop Company. No. 141,321; Apr. 19; v. 285; p. 565.
Fabrics in the piece. Cheney Brothers. No. 141,514; Apr. 26; v. 285; p. 778.
Fans and exhausters. L. J. Wing Mfg. Co. No. 141,463; Apr. 19; v. 285; p. 569.
Fans, Rotary. S. Dick. No. 141,533; Apr. 26; v. 285; p. 779.

Feed products, Animal-. B. L. Sessum. No. 141,436; Apr. 19; v. 285; p. 569.
Feed, Stock. MacX Feed Milling Co. No. 141,410; Apr. 19; v. 285; p. 568.
Feeds and fish-meal, Poultry and stock. Lawrence Canning Co. No. 141,402; Apr. 19; v. 285; p. 568.
Feeder, Hog-. Dixie Mills. No. 141,535; Apr. 26; v. 285; p. 779.
Feeds, Poultry. E. G. Smyth Co. No. 141,681; Apr. 26; v. 285; p. 783.
Fencing, Wire. B. Anderson. No. 141,481; Apr. 26; v. 285; p. 777.
Fever-powder, Equine. Mangan & Co. No. 141,164; Apr. 12; v. 285; p. 382.
Fiber, Molded. Clark Fiber Products Corporation. No. 141,337; Apr. 19; v. 285; p. 566.
Fish, Preserved. Gandara y Haz. No. 141,136; Apr. 12; v. 285; p. 381.
Flashlights and dry batteries. Hipwell Manufacturing Co. No. 141,383; Apr. 19; v. 285; p. 567.
Flashlights and parts thereof. Williamson Electric Company. Nos. 141,719; Apr. 26; v. 285; p. 784.
Flour, rye, white and yellow cornmeals, Whole-wheat, Graham, and rye. M. R. Boetger. No. 141,494; Apr. 26; v. 285; p. 777.
Flour, Self-rising. J. Allen Smith & Co. No. 141,228; Apr. 12; v. 285; p. 384.
Flour, Wheat-. Cape County Milling Company. No. 141,509; Apr. 26; v. 285; p. 778.
Flour, Wheat-. Centennial Mill Company. No. 141,512; Apr. 26; v. 285; p. 778.
Flour, Wheat-. Collins Flour Mills. No. 141,522; Apr. 26; v. 285; p. 778.
Flour, Wheat-. Gordonville Milling Company. No. 141,361; Apr. 19; v. 285; p. 566.
Flour, Wheat-. Gordonville Milling Company. No. 141,755; Apr. 26; v. 285; p. 788.
Flour, Wheat-. Larabee Flour Mills Corporation. No. 141,591; Apr. 26; v. 285; p. 781.
Flour, Wheat-. Middle States Milling Company. No. 141,171; Apr. 12; v. 285; p. 382.
Flour, Wheat-. Midland Cereal Products Co. No. 141,611; Apr. 26; v. 285; p. 781.
Flour, Wheat-. Millers Milling Company. No. 141,612; Apr. 26; v. 285; p. 781.
Flour, Wheat-. Wichita Mill & Elevator Company. No. 141,063; Apr. 5; v. 285; p. 187.
Food, Breakfast. Joy Food Products Co. No. 141,394; Apr. 19; v. 285; p. 567.
Foods. American Stores Company. No. 141,477; Apr. 26; v. 285; p. 777.
Foods. Bon T. Look Stores Company. No. 141,495; Apr. 26; v. 285; p. 778.
Foods. California Packing Corporation. No. 141,507; Apr. 26; v. 285; p. 778.
Foods for horses, cattle, dogs, chickens, &c. Pratt Food Co. No. 141,799; Apr. 26; v. 285; p. 792.
Fruit, Fresh. Fowler Grape Growers Association. No. 141,551; Apr. 26; v. 285; p. 779.
Fruits, Dried. Guggenhime & Company. No. 141,132; Apr. 12; v. 285; p. 381.
Fruits, Fresh. L. G. Bachan. No. 141,484; Apr. 26; v. 285; p. 777.
Furniture and automobile-body polish. W. H. Damon. No. 141,529; Apr. 26; v. 285; p. 779.
Furniture-polish. A. E. Kerr. No. 141,152; Apr. 12; v. 285; p. 381.
Fuses and cut-outs, Electric. Bussmann Manufacturing Company. No. 141,501; Apr. 26; v. 285; p. 778.
Garments, Child's. L. E. Freeman. No. 141,359; Apr. 19; v. 285; p. 566.
Garters and hose-supporters. Russell Manufacturing Company. No. 141,650; Apr. 26; v. 285; p. 782.
Gasolene, Device for measuring and controlling the flow of. Pearson-Wiggins Co. No. 141,198; Apr. 12; v. 285; p. 383.
Ginger-ale. City Ice Delivery Company. No. 141,096; Apr. 12; v. 285; p. 380.
Ginger-ale. S. L. Goldman. No. 141,559; Apr. 26; v. 285; p. 780.
Glass. Corning Glass Works. No. 141,342; Apr. 19; v. 285; p. 566.
Gloves, Leather. Jordan Marsh Company. No. 141,150; Apr. 12; v. 285; p. 381.
Glue, Casein. The Casein Manufacturing Co. No. 141,334; Apr. 19; v. 285; p. 566.
Grinding compound. Worcester Abrasive Company. No. 141,278; Apr. 12; v. 285; p. 385.
Gum, Chewing-. American Chicle Company. No. 141,309; Apr. 19; v. 285; p. 565.
Gum, Chewing-. American Chicle Company. No. 141,474; Apr. 26; v. 285; p. 777.
Gum, Chewing-. D. M. Dickinson, Jr. No. 141,347; Apr. 19; v. 285; p. 566.
Gum, Chewing-. D. M. Dickinson, Jr. No. 141,534; Apr. 26; v. 285; p. 779.
Hair-nets. E. Fineburg. No. 141,547; Apr. 26; v. 285; p. 779.
Hair-nets, Silk. Fuld, Traube & Co. No. 141,555; Apr. 26; v. 285; p. 779.
Hair-nets. S. Glemby, Inc. No. 141,558; Apr. 26; v. 285; p. 779.
Hair-nets. National Trading Company. No. 141,788; Apr. 26; v. 285; p. 791.
Hair-nets and veils. New York Merchandise Company. Nos. 141,623–4; Apr. 26; v. 285; pp. 781–2.
Hair-nets. Robbins & Schwartz. No. 141,666; Apr. 26; v. 285; p. 783.
Hair-tonic, dandruff-remover, toilet water. S. G. Hays. No. 141,375; Apr. 19; v. 285; p. 567.
Hammers, Power-. Nazel Engineering & Machine Works. No. 141,187; Apr. 12; v. 285; p. 132.
Hams, bacon, shoulders, &c. E. Kahn's Sons Company. No. 141,583; Apr. 26; v. 285; p. 780.
Hats. C. S. Katz. No. 141,395; Apr. 19; v. 285; p. 567.
Hats and caps. Goswado Manufacturing Company. No. 141,362; Apr. 19; v. 285; p. 566.
Hats and caps. M. Rappaport. No. 141,606; Apr. 26; v. 285; p. 781.
Hats, Ladies'. K. G. Siegelstein. No. 141,438; Apr. 19; v. 285; p. 569.
Hats, Straw. The Townsend Grace Company. No. 141,253; Apr. 12; v. 285; p. 385.
Hats, Trimmed. J. E. Snyder. No. 141,231; Apr. 12; v. 285; p. 384.
Hats, Women's and misses'. Aerial Hat Co. No. 141,067; Apr. 12; v. 285; p. 379.
Headlights and parts thereof, Electric. Alvo Manufacturing Co. No. 141,308; Apr. 19; v. 285; p. 565.
Heaters, Electric. E. L. Emerson. No. 141,542; Apr. 26; v. 285; p. 779.
Heaters for air, Electric. Universal Interests. No. 141,455; Apr. 19; v. 285; p. 569.
Heaters, Gas or vapor. L. P. Lowe. No. 141,407; Apr. 19; v. 285; p. 568.
Honey. R. A. Bray. No. 141,325; Apr. 19; v. 285; p. 565.
Honey. Cloverland Apiaries Co. No. 141,519; Apr. 26; v. 285; p. 778.
Hops. Standard Imports Limited. No. 141,239; Apr. 12; v. 285; p. 384.
Hosiery. Lebeis Hosiery Company. No. 141,766; Apr. 26; v. 285; p. 789.
Hosiery. S. S. Miller. No. 141,780; Apr. 26; v. 285; p. 790.
Hosiery. Notaseme Hosiery Company. No. 141,798; Apr. 26; v. 285; p. 791.
Hosiery. Western Dry Goods Co. No. 141,717; Apr. 26; v. 285; p. 784.
Hosiery. Wolfinger Knitting Mills. No. 141,464; Apr. 19; v. 285; p. 569.
Hosiery. A. A. Wuest. No. 141,721; Apr. 26; v. 285; p. 784.
Hosiery and knitted underwear. Lax & Burgheimer Corporation. No. 141,765; Apr. 26; v. 285; p. 789.
Household ammonia, bleaching fluid, bluing. G. N. Smith. No. 141,230; Apr. 12; v. 285; p. 384.
Ignition-magnetos, magneto brackets and push-rods, electrodes. Webster Electric Company. No. 141,304; Apr. 12; v. 285; p. 389.
Incubators, Electric. Electric Controller Co. No. 141,540; Apr. 26; v. 285; p. 779.
Indigo paste, Synthetic-. Andersen, Meyer & Co. No. 141,482; Apr. 26; v. 285; p. 777.
Insect-destroying composition. Chamberlain-Haber Chemical Company. No. 141,736; Apr. 26; v. 285; p. 786.
Insect-powder. Frank Tea & Spice Co. No. 141,553; Apr. 26; v. 285; p. 779.
Insecticides. G. B. Williams Co. No. 141,462; Apr. 19; v. 285; p. 569.
Insecticides and germicides. Interstate Chemical Company. Nos. 141,577–8; Apr. 26; v. 285; p. 780.
Insulation, Coating for electric. Auto Specialties Company. No. 141,314; Apr. 19; v. 285; p. 565.
Isinglass, gelatin, &c. L. P. Swinborne. Nos. 141,158–9; Apr. 12; v. 285; p. 382.
Jackets, vests, trousers, &c. S. Schneiders and Son. No. 141,216; Apr. 12; v. 285; p. 383.
Jam, Fruit. Puyallup & Sumner Fruit Growers Canning Company. No. 141,207; Apr. 12; v. 285; p. 383.
Jar rings, Fruit-. Serv-us Grocery Products Corporation. No. 141,673; Apr. 26; v. 285; p. 783.
Jewelry. B. A. Ballou & Co. No. 141,283; Apr. 12; v. 285; p. 387.
Jewelry. Pels-Jones. No. 141,638; Apr. 26; v. 285; p. 782.
Jewelry. Warwick Novelties Inc. No. 141,816; Apr. 26; v. 285; p. 794.
Jewelry, Articles of. Cohn & Rosenberger. No. 141,098; Apr. 12; v. 285; p. 380.
Knitted fabrics of wool. Specialty Knit Goods Manufacturing Co. No. 141,685; Apr. 26; v. 285; p. 783.
Knives. Lamson & Goodnow Manufacturing Company. No. 141,764; Apr. 26; v. 285; p. 789.
Knives, Sugar-cane. American Tractors Limited. No. 141,074; Apr. 12; v. 285; p. 379.
Lamps, Electric-arc. C. P. Chamberlain. No. 141,513; Apr. 26; v. 285; p. 778.
Lamps, Tungsten, nitrogen, and carbon. C. O. Alexander. No. 141,069; Apr. 12; v. 285; p. 379.
Laxative. W. Schapira. No. 141,215; Apr. 12; v. 285; p. 383.
Laxative preparation. B. F. Swisher. No. 141,245; Apr. 12; v. 285; p. 384.
Leather. Lopes Export Company. No. 141,595; Apr. 26; v. 285; p. 781.
Leather. Monarch Leather Company. No. 141,783; Apr. 26; v. 285; p. 790.
Leather. Robson Leather Company. No. 141,425; Apr. 19; v. 285; p. 568.

Leather, Oil preparation for treating. Gutmann & Company. No. 141,369; Apr. 19; v. 285; p. 567.
Leather, Patent-. Radel Leather Manufacturing Co. No. 141,644; Apr. 26; v. 285; p. 782.
Leather, Rawhide lace-. Page Belting Company. No. 141,632; Apr. 26; v. 285; p. 782.
Leather, Sole-. B. Frank & Sons. Nos. 141,357–8; Apr. 19; v. 285; p. 566.
Lenses and blanks, Ophthalmic. M. H. Harris. No. 141,374; Apr. 19; v. 285; p. 567.
Lenses, Ophthalmic. F. A. Hardy & Company. No. 141,133; Apr. 12; v. 285; p. 381.
Lime, Hydrated. Rockland and Rockport Lime Corporation. No. 141,648; Apr. 26; v. 285; p. 782.
Liniment. T. W. Blakeslee. No. 141,322; Apr. 19; v. 285; p. 565.
Liniment. Dr. Earl S. Sloan, Inc. No. 141,300; Apr. 12; v. 285; p. 389.
Liniment for rheumatism and catarrh. J. H. Tilson. No. 141,449; Apr. 19; v. 285; p. 569.
Liniments. H. D. Oldham. No. 141,629; Apr. 26; v. 285; p. 782.
Linings. J. Albert. No. 141,068; Apr. 12; v. 285; p. 379.
Lorgnette-frames. Sussfeld, Lorsch & Co. No. 141,241; Apr. 12; v. 285; p. 384.
Louver or Venetian blinds. J. G. Wilson Corporation. No. 141,818; Apr. 26; v. 285; p. 794.
Lubricating-oil, chain and non-fluid lubricant. Harley-Davidson Motor Co. No. 141,465; Apr. 19; v. 285; p. 570.
Lubricators, Force-feed. McCord Manufacturing Company. No. 141,708; Apr. 26; v. 285; p. 789.
Macaroni, spaghetti, &c. Skinner Manufacturing Company. No. 141,808; Apr. 26; v. 285; p. 793.
Machinery and tools. W. E. Austin Machinery Co. No. 141,077; Apr. 12; v. 285; p. 379.
Machinery and vehicles, Instruments for recording the periods of operation and of rest of. Service Recorder Company. No. 141,806; Apr. 26; v. 285; p. 793.
Magazine and weekly paper, Quarterly. American Association of Nurserymen. No. 141,073; Apr. 12; v. 285; p. 379.
Magazine, Monthly. Canadian Club of New York. No. 141,091; Apr. 12; v. 285; p. 379.
Magazine, Monthly. E. A. Smith. No. 141,229; Apr. 12; v. 285; p. 384.
Magnetos. Ericsson Manufacturing Company. No. 141,743; Apr. 26; v. 285; p. 787.
Malt, hops, and pitch, Green. Pan-America Supply Company. No. 141,195; Apr. 12; v. 285; p. 383.
Marl lime. Claremont Marl Products Company. No. 141,518; Apr. 26; v. 285; p. 778.
Medical preparations. Brame Drug Company. No. 141,734; Apr. 26; v. 285; p. 786.
Medical preparations. W. Chubbuck. No. 141,517; Apr. 26; v. 285; p. 778.
Medicinal preparation. Griffith Alverson Co. No. 141,064; Apr. 5; v. 285; p. 187.
Medicinal preparation. Ultra Refined Crude Products Company. No. 141,704; Apr. 26; v. 285; p. 784.
Medicinal preparation for toothache. Arkadia Medicine Company. No. 141,725; Apr. 26; v. 285; p. 785.
Medicinal preparation for tuberculosis. J. Robert. No. 141,647; Apr. 26; v. 285; p. 782.
Medicinal preparations. Kovis Company. No. 141,399; Apr. 19; v. 285; p. 568.
Medicinal preparations. M. Weinshenker. No. 141,716; Apr. 26; v. 285; p. 784.
Medicinal preparations. World's Medicine Co. No. 141,277; Apr. 12; v. 285; p. 385.
Medicine for headache. J. M. Chesnutt. No. 141,335; Apr. 19; v. 285; p. 566.
Medicine for influenza, colds, and grippe. Hillman Drug Co. No. 141,572; Apr. 26; v. 285; p. 780.
Medicine for smallpox. W. Toland. No. 141,815; Apr. 26; v. 285; p. 794.
Medicine for the nerves and blood. M. F. Pratt. No. 141,777; Apr. 26; v. 285; p. 790.
Medicine for the treatment of scrofula and skin affections. M. Pollard. No. 141,641; Apr. 26; v. 285; p. 782.
Medicine, Laxative. W. B. Cleves. No. 141,098; Apr. 12; v. 205; p. 380.
Medicine or preparation, Nerve. M. Pollard. No. 141,642; Apr. 26; v. 285; p. 782.
Medicines and pharmaceutical preparations. Hessib-Ellis Drug Co. No. 141,376; Apr. 19; v. 285; p. 567.
Medicines, Veterinary. Farmers Veterinary Medical Company. No. 141,353; Apr. 19; v. 285; p. 566.
Metal, Babbitt. More-Jones Brass & Metal Company. No. 141,784; Apr. 26; v. 285; p. 791.
Metal-polish, Liquid. Patton Paint Company. No. 141,636; Apr. 26; v. 285; p. 782.
Metal-shim stock. McCord Manufacturing Company. No. 141,769; Apr. 26; v. 285; p. 789.
Metal-working machinery. Buffalo Forge Company. No. 141,285; Apr. 12; v. 285; p. 387.
Middies, dresses, and suits, &c., Ladies', misses', and children's. Carafol-Silverman Garment Co. No. 141,343; Apr. 19; v. 285; p. 566.
Motors and generators and starters. Crocker-Wheeler Company. Nos. 141,526–7; Apr. 26; v. 285; p. 779.
Mouth-wash. F. R. Abrams. No. 141,066; Apr. 12; v. 285; p. 379.
Navigation, Instruments for use in. Societe des Moteurs Gnome et Rhone. No. 141,234; Apr. 12; v. 285; p. 384.
Nightgowns, envelop-chemise, petticoats, &c. Burtex Company. No. 141,330; Apr. 19; v. 285; p. 565.
Nipple-cerate. National Pharmacy Co. No. 141,416; Apr. 19; v. 285; p. 568.
Nuts. Habicht and Company. No. 141,569; Apr. 26; v. 285; p. 780.
Nuts and dried fruits. Habicht and Company. No. 141,370; Apr. 19; v. 285; p. 567.
Oil-cups and oil-feeding devices. Justrite Manufacturing Company. No. 141,763; Apr. 26; v. 285; p. 789.
Oil, Edible vegetable. United Vegetable Oil Refinery. No. 141,705; Apr. 26; v. 285; p. 784.
Oil, Flotation-. General Naval Stores Co. No. 141,751; Apr. 26; v. 285; p. 787.
Oil, Haarlem. Genuine Haarlem Oil Mfg. Co. No. 141,054; Apr. 5; v. 285; p. 187.
Oil, Hard-wood. General Naval Stores Co. No. 141,750; Apr. 26; v. 285; p. 787.
Oil, Healing-. T. F. Woodruff. No. 141,275; Apr. 12; v. 285; p. 385.
Oil, Kerosene-. Texas Company, The. No. 141,250; Apr. 12; v. 285; p. 384.
Oil, Lubricating-. Chicago Pneumatic Tool Company. No. 141,094; Apr. 12; v. 285; p. 380.
Oil, Medicinal. H. Cabitt. No. 141,502; Apr. 26; v. 285; p. 778.
Oil, Olive-. Alex. D. Shaw & Co. No. 141,224; Apr. 12; v. 285; p. 384.
Oil, Olive-. Blumauer-Frank Drug Company. No. 141,493; Apr. 26; v. 285; p. 777.
Oil, Olive-. Grecian Importing & Trading Co. No. 141,565; Apr. 26; v. 285; p. 780.
Oil, Paint-. Siemon & Eiting. No. 141,227; Apr. 12; v. 285; p. 384.
Oil, Pine-. General Naval Stores Co. No. 141,747; Apr. 26; v. 285; p. 787.
Oil, Pine-tar. General Naval Stores Co. No. 141,749; Apr. 26; v. 285; p. 787.
Oil, Steam-distilled pine-. General Naval Stores Co. No. 141,748; Apr. 26; v. 285; p. 787.
Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 141,548; Apr. 26; v. 285; p. 779.
Oils, Aromatized castor-. M. F. Schlesinger. No. 141,805; Apr. 26; v. 285; p. 793.
Oils, greases, and compounds, Lubricating. New York & New Jersey Lubricant Co. No. 141,791; Apr. 26; v. 285; p. 791.
Oils, Lubricating-. Puente Oil Company. No. 141,643; Apr. 26; v. 285; p. 782.
Ointment, Antiseptic. Dr. O. W. Green & Dr. L. O. Green. No. 141,753; Apr. 26; v. 285; p. 788.
Ointment for inflammatory congestion, &c. J. E. Jacobson. No. 141,579; Apr. 26; v. 285; p. 780.
Oleomargarin. Baltimore Butterine Co. No. 141,079; Apr. 12; v. 285; p. 379.
Oleomargarin. Baltimore Butterine Co. Nos. 141,486–7; Apr. 26; v. 285; p. 777.
Oleomargarin. Shedd Creamery Co. No. 141,675; Apr. 26; v. 285; p. 783.
Oleomargarin. St. Louis Independent Packing Company. No. 141,811; Apr. 26; v. 285; p. 793.
Oleomargarin and lard. Corkran, Hill and Company. No. 141,102; Apr. 12; v. 285; p. 380.
Overalls. E. R. Deputy Company. No. 141,108; Apr. 12; v. 285; p. 380.
Overalls. Sherman Overall Manufacturing Company. No. 141,225; Apr. 12; v. 285; p. 384.
Overalls and trousers. Altoona Overall Factory. No. 141,470; Apr. 26; v. 285; p. 777.
Overalls, unionalls, &c. Overland Mfg. Co. No. 141,190; Apr. 12; v. 285; p. 383.
Packing. Massasoit Manufacturing Company. No. 141,605; Apr. 26; v. 285; p. 781.
Pads, Wear-. Sears Manufacturing Company. No. 141,221; Apr. 12; v. 285; p. 384.
Paint-pigments, &c. Titan Co. A/S. No. 141,252; Apr. 12; v. 285; p. 385.
Paints. The Arlington Manufacturing Company. No. 141,075; Apr. 12; v. 285; p. 379.
Paints. Arlington Manufacturing Company. No. 141,726; Apr. 26; v. 285; p. 785.
Paints. M. D. Swartz. No. 141,243; Apr. 12; v. 285; p. 384.
Paints and painters' materials. New York Wood Finishers Supply Co. No. 141,419; Apr. 19; v. 285; p. 568.
Paints and painters' materials. Wailes Dove Bitumastic Limited. Nos. 141,260–7; Apr. 12; v. 285; p. 385.
Paints for roofs, bridges, &c. Klein Manufacturing Company. No. 141,153; Apr. 12; v. 285; p. 381.
Paper. Waldes & Co. No. 141,268; Apr. 12; v. 285; p. 385.
Paper. Wayagamack Pulp & Paper Co. No. 141,714; Apr. 26; v. 285; p. 784.
Paper and board, Binders'. C. B. Hewitt & Brothers. No. 141,377; Apr. 19; v. 285; p. 567.
Paper and board, Binders'. C. B. Hewitt & Brothers Inc. Nos. 141,379–80; Apr. 19; v. 285; p. 567.
Paper and cloth, Abrasive. Minnesota Mining & Mfg. Co. Nos. 141,174–5; Apr. 12; v. 285; p. 382.
Paper, envelops, tablets, blank books. J. C. Blair Company. Nos. 141,085–7; Apr. 12; v. 285; p. 379.
Paper facial cloth and toweling. G. M. Dunsmore. No. 141,115; Apr. 12; v. 285; p. 380.
Paper, paper napkins and towels, Toilet-. Wortendyke Manufacturing Co. No. 141,720; Apr. 26; v. 285; p. 784.

Paper, Printing and writing. Ashby Printing Company. No. 141,727; Apr. 26; v. 285; p. 785.
Paper, Sulfite bond-. International Paper Company. No. 141,146; Apr. 12; v. 285; p. 381.
Paper, Writing-. Western Bottle Manufacturing Company. No. 141,270; Apr. 12; v. 285; p. 385.
Papers. C. B. Hewitt and Brothers. No. 141,378; Apr. 19; v. 285; p. 567.
Papers, Printing and writing. Millers Falls Paper Company. No. 141,295. Apr. 12; v. 285; p. 388.
Parasols and umbrellas. J. A. Migel, Inc. No. 141,172; Apr. 12; v. 285; p. 382.
Peanut-butter, salted peanuts. Walter J. Hirsch Company. No. 141,384; Apr. 19; v. 285; p. 567.
Peanuts, Salted. United Nut and Chocolate Company. No. 141,257; v. 285; p. 385.
Pencils, Lead-. Eagle Pencil Company. Nos. 141,538–9; Apr. 26; v. 285; p. 779.
Pens, Fountain-. Edison-Cromer Pen Co. No. 141,118; Apr. 12; v. 285; p. 380.
Perfumery, hair tonic, lotions, &c. B. P. Healy. No. 141,138; Apr. 12; v. 285; p. 381.
Perfumes. Colgate & Company. No. 141,339; Apr. 19; v. 285; p. 566.
Perfumes, toilet waters, &c. Parfumerie Houbigant. Nos. 141,388–93; Apr. 19; v. 285; p. 567.
Peroxid of hydrogen. Drevet Mfg. Co. No. 141,348; Apr. 19; v. 285; p. 566.
Petroleum and its refined products, Crude. General Oil Company. No. 141,557; Apr. 26; v. 285; p. 779.
Petroleum, Derivatives of crude. Tide Water Oil Company. Nos. 141,696–702; Apr. 26; v. 285; pp. 783–4.
Petticoats. J. J. McLoughlin. No. 141,598; Apr. 26; v. 285; p. 781.
Petticoats and ladies' bloomers and knickerbockers. D. L. Rosenberg. No. 141,430; Apr. 19; v. 285; p. 568.
Pharmaceutical compound. Dermatological Research Laboratories. No. 141,109; Apr. 12; v. 285; p. 380.
Pharmaceutical preparations. L. O. Terhorst. No. 141,248; Apr. 12; v. 285; p. 384.
Pharmaceutical preparations. Tyson & Co. No. 141,450; Apr. 19; v. 285; p. 569.
Phonograph record-disks. Talking Photo Corporation. No. 141,693; Apr. 26; v. 285; p. 783.
Phonograph-record cleaners. Mezuo Chemical Company. No. 141,170; Apr. 12. v. 285; p. 382.
Phonograph-records. Shapleigh Hardware Company. No. 141,674; Apr. 26; v. 285; p. 783.
Phonographs. Cole & Dunas Music Co. No. 141,520; Apr. 26; v. 285; p. 778.
Phonographs. G. Mitchell. No. 141,614; Apr. 26; v. 285; p. 781.
Phonographs. Perry-Lorenson Phonograph Company. No. 141,299; Apr. 12; v. 285; p. 389.
Phonographs and phonograph-records. Crescent Talking Machine Co. No. 141,104; Apr. 12; v. 285; p. 380.
Phonographs and records. Starr Piano Company. No. 141,810; Apr. 26; v. 285; p. 793.
Phonographic needles. W. H. Bagshaw Co. No. 141,078; Apr. 12; v. 285; p. 379.
Piano actions, Player-. Scott Player Action Co. No. 141,218; Apr. 12; v. 285; p. 383.
Piano music-rolls, Player-. Rose Valley Company. No. 141,427; Apr. 19; v. 285; p. 568.
Pianos. Steinway & Sons. No. 141,687; Apr. 26; v. 285; p. 783.
Pianos, piano-players, and organs. Master Music Company. No. 141,168; Apr. 12; v. 285; p. 382.
Picture films, Moving-. R. W. Teed. No. 141,247; Apr. 12; v. 285; p. 384.
Piece goods. J. A. Migel, Inc. No. 141,173; Apr. 12; v. 285; p. 382.
Piece goods, handkerchiefs, table-cloths, &c. J. H. Walker. Nos. 141,711–12; Apr. 26; v. 285; p. 784.
Pills, Laxative. J. D. Chipley. No. 141,516; Apr. 26; v. 285; p. 778.
Pills, Liver-. E. W. Youngken. No. 141,279; Apr. 12; v. 285; p. 385.
Piston-rings. Victory Hammered Piston Ring Company. No. 141,709; Apr. 26; v. 285; p. 784.
Plastic building materials, Magnesite composition for making, Flexotile Floor Company. No. 141,549; Apr. 26; v. 285; p. 779.
Pliers. Forged Steel Products Co. of N. J. Nos. 141,355–6; Apr. 19; v. 285; p. 566.
Plows, stalk-cutters, cultivators, &c. S. C. Agricultural Distributing Co. No. 141,435; Apr. 19; v. 285; p. 569.
Pneumatic tools and compressed-air machinery. Chicago Pneumatic Tool Company. No. 141,737; Apr. 26; v. 285; p. 786.
Pneumatic tools and compressed-air machinery. Cleveland Pneumatic Tool Company. No. 141,738; Apr. 26; v. 285; p. 786.
Pots, Coffee and tea. J. A. Howard. No. 141,142; Apr. 12; v. 285; p. 381.
Pots, pans, kettles, pails, &c. S. Blickman. No. 141,323; Apr. 19; v. 285; p. 565.
Powder, Talcum. Barclay & Co. No. 141,317; Apr. 19; v. 285; p. 565.
Preparation for the destruction of ants, roaches, &c. O. & W. Thum Company. No. 141,448; Apr. 19; v. 285; p. 569.
Preparation for the treatment of blind staggers in horses, &c. R. C. Philpot. No. 141,640; Apr. 26; v. 285; p. 782.
Preparation for the treatment of rheumatism. Jackson & Stamper. No. 141,441; Apr. 19; v. 285; p. 569.
Preparation for treatment of excessive perspiration of the feet. W. M. Dogen. No. 141,113; Apr. 12; v. 285; p. 380.
Preparation for use in producing whipped cream. G. F. Press. No. 141,203; Apr. 12; v. 285; p. 383.
Preparations, Toilet. Boyd-Haynes Corp. No. 141,088; Apr. 12; v. 285; p. 379.
Publication. Wichita Motors Company. No. 141,271; Apr. 12; v. 285; p. 385.
Publication, Trade. The Prest-O-Lite Company Inc. No. 141,204; Apr. 12; v. 285; p. 383.
Publications, Periodical Monthly. Cleveland and Tractor Company. No. 141,095; Apr. 12; v. 285; p. 380.
Puddings and desserts. Sterling Pure Food Co. No. 141,442; Apr. 19; v. 285; p. 569.
Pudding, Chocolate dessert-. A. E. Schlichting. No. 141,434; Apr. 19; v. 285; p. 569.
Pulverizing machinery and parts thereof. Aero Pulverizer Company. No. 141,467; Apr. 26; v. 285; p. 777.
Pumps, Steam-. A. S. Cameron Steam Pump Works. No. 141,331; Apr. 19; v. 285; p. 565.
Radiators and structural radiator parts, Automobile-. Binkley Company. No. 141,084; Apr. 12; v. 285; p. 379.
Ranges and heating-stoves. Early Foundry Co. No. 141,742; Apr. 26; v. 285; p. 787.
Razor-strops. Illinois Razor Strop Company. Nos. 141,143–4; Apr. 12; v. 285; p. 381.
Razor-strops, Mechanical. Rhodes Manufacturing Company. No. 141,423; Apr. 19; v. 285; p. 568.
Razors and razor-blades. A. C. Penn, Incorporated. Nos. 141,796–7; Apr. 26; v. 285; p. 792.
Razors, Safety-. Bestyet Razor Co. No. 141,320; Apr. 19; v. 285; p. 565.
Remedies, Colic and distemper. O. D. Campbell. No. 141,090; Apr. 12; v. 285; p. 379.
Remedy for hay-fever and the like. H. S. Morgan. No. 141,416; Apr. 19; v. 285; p. 568.
Remedy for the treatment of the blood, heart, brain, and nervous system. Dr. Miles Medical Company. No. 141,782; Apr. 26; v. 285; p. 790.
Ring-travelers. National Ring Traveler Co. No. 141,184; Apr. 12; v. 285; p. 382.
Roofing, Asphalt. Mohegan Wall Board & Roofing Corporation. Nos. 141,615–16; Apr. 26; v. 285; p. 781.
Rubber heels. Taunton Rubber Co. No. 141,812; Apr. 26; v. 285; p. 793.
Rubber heels. F. W. Willis. Nos. 141,273–4; Apr. 12; v. 285; p. 385.
Rubber heels and lifts. Tee Pee Rubber Company. No. 141,445; Apr. 19; v. 285; p. 569.
Rugs. Empire Carpet Co. Nos. 141,289–90; Apr. 12; v. 285; p. 388.
Rules. Rustless Rule Co. No. 141,804; Apr. 26; v. 285; p. 793.
Salad-dressing. A. Zittel. No. 141,281; Apr. 12; v. 285; p. 385.
Salve and ointment for use in treatment of rectal diseases. O. R. Von Bonnewitz. No. 141,459; Apr. 19; v. 285; p. 569.
Salve, Deodorant. F. M. Oshimo. No. 141,631; Apr. 26; v. 285; p. 782.
Salve for massaging paralyzed limbs. N. Elovitz. No. 141,541; Apr. 26; v. 285; p. 779.
Salve, Pile-. Marjax Chemical Co. No. 141,165; Apr. 12; v. 285; p. 382.
Sand-blast and allied equipment and foundry-supplies. No. 141,633; Apr. 26; v. 285; p. 782.
Scales and instruments of precision, Weighing-. Toledo Scale Company. No. 141,301; Apr. 12; v. 285; p. 389.
Scalp-tonics. Sickels & Roush. No. 141,437; Apr. 19; v. 285; p. 569.
Sealing paste. Key Boiler Equipment Company. No. 141,584; Apr. 26; v. 285; p. 780.
Seeds, Flower, vegetable, and field. Griswold Seed & Nursery Co. No. 141,567; Apr. 26; v. 285; p. 780.
Serges. H. Alt. No. 141,306; Apr. 19; v. 285; p. 565.
Shade-cloth. Talbert-Whitmore Company. No. 141,692; Apr. 26; v. 285; p. 783.
Shampoos. Julius Pauly, Incorporated. No. 141,637; Apr. 26; v. 285; p. 782.
Shaving-cream, hard-water soap. Co-Operative Drug Company. No. 141,101; Apr. 12; v. 285; p. 380.
Sheetings. Marshall Field & Company. No. 141,775; Apr. 26; v. 285; p. 790.
Sheets, pillow-cases, &c. Marshall Field & Company. No. 141,773; Apr. 26; v. 285; p. 789.
Shirts. C. Surbin & Co. No. 141,240; Apr. 12; v. 285; p. 384.
Shirts and boys' blouses, Youths'. L. S. Kirshenbaum. No. 141,397; Apr. 19; v. 285; p. 567.
Shirts and collars. Hall, Hartwell & Co. Nos. 141,371–2; Apr. 19; v. 285; p. 567.
Shirts, Men's negligée. Tutelman Brothers. No. 141,451; Apr. 19; v. 285; p. 569.
Shirts, pajamas, collars, &c. Alperin, Strauss & Co. No. 141,072; Apr. 12; v. 285; p. 379.
Shoe-laces. M. M. Rhodes & Sons Co. No. 141,821; Apr. 26; v. 285; p. 794.
Shoe-polish and hat-cleaning material. N. Piccoli. No. 141,200; Apr. 12; v. 285; p. 383.

Shoe-polishes. L. Graziadei. No. 141,365; Apr. 19; v. 285; p. 566.
Shoes. Graham-Bumgarner Company. Nos. 141,363–4; Apr. 19; v. 285; p. 566.
Shoes and boots. Excelsior Shoe Company. No. 141,545; Apr. 26; v. 285; p. 779.
Shoes and boots, Leather. F. P. Kirkendall & Co. No. 141,396; Apr. 19; v. 285; p. 567.
Shoes, Canvas rubber soled. Beacon Falls Rubber Shoe Co. No. 141,733; Apr. 26; v. 285; p. 786.
Shoes, Leather. H. E. Davis Co. No. 141,531; Apr. 26; v. 285; p. 779.
Shoes, Leather. Jos. Strasburger Co. No. 141,444; Apr. 19; v. 285; p. 569.
Shovels, dredges, ditchers, &c. Marion Steam Shovel Co. No. 141,772; Apr. 26; v. 285; p. 789.
Signs used as road-markers. F. W. Hockaday. No. 141,385; Apr. 19; v. 285; p. 567.
Silk piece goods. William Hollins & Co. No. 141,141; Apr. 12; v. 285; p. 381.
Silos. E. C. Tecktonius. No. 141,814; Apr. 26; v. 285; p. 794.
Soap. W. J. Carey. No. 141,333; Apr. 19; v. 285; p. 566.
Soap. Fitzpatrick Bros. No. 141,121; Apr. 12; v. 285; p. 380.
Soap. The Procter and Gamble Company. No. 141,205; Apr. 12; v. 285; p. 383.
Soap. Relyea Soap Company. No. 141,211; Apr. 12; v. 285; p. 383.
Soap dyes. E. Green. No. 141,366; Apr. 19; v. 285; p. 566.
Soap, Laundry. Sprague, Warner & Company. No. 141,237; Apr. 12; v. 285; p. 384.
Soap, Soft. J. F. Edington. No. 141,117; Apr. 2; v. 285; p. 380.
Soaps. A. Bell. No. 141,319; Apr. 19; v. 285; p. 565.
Soaps. L. Fundler. No. 141,122; Apr. 12; v. 285; p. 380.
Soaps and shaving-cream, Remedial, toilet, and shaving. Henry Thayer & Co. No. 141,447; Apr. 19; v. 285; p. 569.
Soaps, cleaning, scouring, and polishing, wads, &c. Brillo Manufacturing Company. No. 141,498; Apr. 26; v. 285; p. 778.
Soda-fountain and parts thereof. Knight Light & Soda Fountain Co. No. 141,155; Apr. 12; v. 285; p. 381.
Solder. F. J. Bates. No. 141,731; Apr. 26; v. 285; p. 786.
Spark-coils, electric switches, &c. Societe Anonyme des Etablts. Esselbé. No. 141,232; Apr. 12; v. 285; p. 384.
Spark gaps, radio receiving sets, &c., Quenched- American Radio and Research Corporation. No. 141,310; Apr. 19; v. 285; p. 565.
Spark-plug insulators. Lydon Manufacturing Co. No. 141,597; Apr. 26; v. 285; p. 781.
Spark-plugs. American Manufacturing Company. No. 141,476; Apr. 26; v. 285; p. 777.
Spark-plugs. Auburn Ignition Mfg. Co. No. 141,728; Apr. 26; v. 285; p. 785.
Spark-plugs. Marshall Oil Company of Iowa. No. 141,776; Apr. 26; v. 285; p. 790.
Spark-plugs and parts thereof. Champion Ignition Company. No. 141,093; Apr. 12; v. 285; p. 380.
Springs and tools, reamers, shafting, &c. Herbert Terry & Sons. No. 141,249; Apr. 12; v. 285; p. 384.
Stain or floor-dressing, Wood-. Martin Varnish Company. No. 141,603; Apr. 26; v. 285; p. 781.
Starters for internal-combustion engines, Drives for. Eclipse Machine Company. No. 141,349; Apr. 19; v. 285; p. 566.
Steels, Alloy. The Carpenter Steel Company. No. 141,092; Apr. 12; v. 285; p. 380.
Stove-polishes. J. H. Crocker. No. 141,798; Apr. 26; v. 285; p. 792.
Stoves and furnaces, Coal and wood. Rudy Furnace Co. No. 141,428; Apr. 19; v. 285; p. 568.
Suits and overcoats, Men's outer. S. D. Levy. No. 141,405; Apr. 19; v. 285; p. 568.
Suits, children's dresses, &c., Boys' wash-. Cooper Coate & Casey Dry Goods Co. No. 141,100; Apr. 12; v. 285; p. 380.
Sulfite pulp. Riordon Pulp & Paper Company. No. 141,424; Apr. 19; v. 285; p. 568.
Syrup, Malt-. Augusta Ice & Beverage Company. No. 141,483; Apr. 26; v. 285; p. 777.
Syrup of malt and hops used in making malt beverage. United States Syrup Co. No. 141,259; Apr. 12; v. 285; p. 385.
Syrup, Table-. Smith-Davis Company. No. 141,679; Apr. 26; v. 285; p. 783.
Tablets, Laxative cold-. W. F. McKnight. No. 141,409; Apr. 19; v. 285; p. 568.
Tablets, Novocain and novocain and epinephrin. Martin Chemical Company. No. 141,602; Apr. 26; v. 285; p. 781.
Talking-machine needles. Blackman Talking Machine Co. No. 141,492; Apr. 26; v. 285; p. 777.
Talking-machines. L. Palmer. No. 141,422; Apr. 19; v. 285; p. 568.
Talking-machines and talking-machine cabinets. J. H. Weber. No. 141,715; Apr. 26; v. 285; p. 784.
Tea, Mixed. Merryweather Coffee, Tea & Spice Co. No. 141,414; Apr. 19; v. 285; p. 568.
Telephones, switchboards. Kellogg Switchboard and Supply Company. No. 141,151; Apr. 12; v. 285; p. 381.
Textile-mill supplies. Allen Company. Nos. 141,723–4; Apr. 26; v. 285; p. 785.
Thermometers, barometers, &c. Taylor Instrument Companies. No. 141,813; Apr. 26; v. 285; p. 793.
Thread, Cotton. C. Spicehandler. Nos. 141,235–6; Apr. 12; v. 285; p. 384.
Thread, Shoe and linen. Barbour Flax Spinning Company. Nos. 141,080–2; Apr. 12; v. 285; p. 379.
Ticking. American Importing Co. No. 141,475; Apr. 26; v. 285; p. 777.
Tile, Building-. Hollow Building Tile Association. No. 141,573; Apr. 26; v. 285; p. 780.
Timepieces. F. W. Alter. No. 141,307; Apr. 19; v. 285; p. 565.
Tire-chains. Columbus McKinnon Chain Company. No. 141,523; Apr. 26; v. 285; p. 778.
Tire patch, Pneumatic-. W. C. Knott. No. 141,154; Apr. 12; v. 285; p. 381.
Tires and inner tubes for same. Quick Tire Service. No. 141,209; Apr. 12; v. 285; p. 383.
Tires and inner tubes, Rubber automobile and truck. Romanjo Tire Company. No. 141,056; Apr. 5; v. 285; p. 187.
Tires and inner tubes, Vulcanizing-patches for automobile. V. V. Moore. No. 141,617; Apr. 26; v. 285; p. 781.
Tires and interliners, Pneumatic. Ray Tire & Rubber Company. No. 141,645; Apr. 26; v. 285; p. 782.
Tires and tubes, Rubber. Newman Tire & Rubber Company. No. 141,790; Apr. 26; v. 285; p. 791.
Tires, inner linings and tubes, &c., Automobile. C. Palmer. No. 141,194; Apr. 12; v. 285; p. 383.
Tires, tubes, &c., Rubber. C. C. C. Fire Hose Co. No. 141,511; Apr. 26; v. 285; p. 778.
Toilet preparations. Barclay & Co. No. 141,316; Apr. 19; v. 285; p. 565.
Toilet preparations. Northam Warren Corporation. No. 141,420; Apr. 19; v. 285; p. 568.
Tonic and nervine, Laxative. W. J. Davies. No. 141,346; Apr. 19; v. 285; p. 566.
Tonic for the blood and appetite. W. T. Nash. No. 141,621; Apr. 26; v. 285; p. 781.
Tonic, General. Briacea Drug Co. No. 141,326; Apr. 19; v. 285; p. 565.
Tonics, Medicinal. Coleman & Company. No. 141,521; Apr. 26; v. 285; p. 778.
Tooth-paste. W. K. Tichenor. No. 141,251; Apr. 12; v. 285; p. 384.
Toweling. Boot Mills. No. 141,496; Apr. 26; v. 285; p. 778.
Towels, Cloth shaving-. Soak-Em Shaving Towel Company. No. 141,682; Apr. 26; v. 285; p. 783.
Tractors. The Doughboy Tractors. No. 141,254; Apr. 12; v. 285; p. 385.
Tractors. Franklin Tractor Company. No. 141,552; Apr. 26; v. 285; p. 779.
Transporting boxes, barrels, &c., Machines for. Economy Engineering Company. No. 141,116; Apr. 12; v. 285; p. 380.
Trucks, Automobile-. Available Truck Company. No. 141,729; Apr. 26; v. 285; p. 785.
Trucks, Gasolene-motor. Transport Truck Company. No. 141,302; Apr. 12; v. 285; p. 389.
Trucks, Motor-driven. Minneapolis Steel & Machinery Company. No. 141,296; Apr. 12; v. 285; p. 388.
Tubes, Devices for discharging the contents of collapsible. T. H. Martin. No. 141,411; Apr. 19; v. 285; p. 568.
Turpentine, Spirits of. T. Sealy. No. 141,220; Apr. 12; v. 285; p. 384.
Underwear, Men's. Universal Garment Company. No. 141,454; Apr. 19; v. 285; p. 569.
Underwear, Women's muslin and silk. Aaron Newmark, Inc. No. 141,065; Apr. 12; v. 285; p. 379.
Valves, Plug-. Merrill Company. No. 141,609; Apr. 26; v. 285; p. 781.
Valves, Steam-blower. Crane Company. No. 141,740; Apr. 26; v. 285; p. 786.
Varnish. Newark Varnish Works. No. 141,789; Apr. 26; v. 285; p. 791.
Vehicles, Electric starting, lighting, and ignition apparatus for motor-. North East Electric Company. No. 141,189; Apr. 12; v. 285; p. 382.
Vehicles, Motor-driven. General Motors Corporation. No. 141,126; Apr. 12; v. 285; p. 381.
Vent-patching material. Patterson, Gottfried and Hunter Inc. No. 141,196; Apr. 12; v. 285; p. 383.
Waists and dresses. E. M. Cohan. No. 141,338; Apr. 19; v. 285; p. 566.
Waists and dresses. E. M. Cohan. No. 141,351; Apr. 19; v. 285; p. 566.
Waists and vests. Nazareth Waist Co. No. 141,186; Apr. 12; v. 285; p. 382.
Wall and sheathing boards, building-paper. Niagara Wall Board Company. No. 141,297; Apr. 12; v. 285; p. 388.
Washing compounds. Stout Crate Co. No. 141,443; Apr. 19; v. 285; p. 569.
Watch-crystals. Konishi Kotakudo & Co. No. 141,588; Apr. 26; v. 285; p. 780.
Watches. M. Levy. No. 141,771; Apr. 26; v. 285; p. 789.
Watches. Rueff Frères. No. 141,123; Apr. 12; v. 285; p. 380.
Watchcases. A. Bulova. No. 141,286; Apr. 12; v. 285; p. 387.
Watchcases. R. J. Macher. No. 141,599; Apr. 26; v. 285; p. 781.

Waterproof boots. B. F. Goodrich Company. No. 141,562; Apr. 26; v. 285; p. 780.
Welding and cutting apparatus, Oxyacetylene. Air Reduction Company. No. 141,469; Apr. 26; v. 285; p. 777.
Welding sheet aluminum, Flux for. Davis-Bournonville. No. 141,741; Apr. 26; v. 285; p. 787.
Wheels, Turbine water-. Holyoke Machine Co. No. 141,386; Apr. 19; v. 285; p. 567.
Whittling kits. John Russell Cutlery Co. No. 141,429; Apr. 19; v. 285; p. 568.
Wicking used for packing purposes. Massasoit Manufacturing Company. No. 141,166; Apr. 12; v. 285; p. 382.
Wines, S. Torti. No. 141,703; Apr. 26; v. 285; p. 784.
Wire, Bottle-. Klatscher & Lorenz. No. 141,398; Apr. 19; v. 285; p. 567.
Wire, High-strain galvanized. John Dunn Son & Co. Nos. 141,536–7; Apr. 26; v. 285; p. 779.
Wool and yarn treating machinery. C. G. Sargent's Sons Corporation. No. 141,432; Apr. 19; v. 285; p. 569.
Woolen and cotton piece goods. Millbrook Woolen Mills. Nos. 141,778–9; Apr. 26; v. 285; p. 790.
Woolens, worsteds, &c., sold in the piece. Nat Ginsburg & Bro. No. 141,560; Apr. 26; v. 285; p. 780.
X-Ray tables and parts thereof. Campbell Electric Co. No. 141,735; Apr. 26; v. 285; p. 786.
Yarn, Silk hosiery-. Southern Export Corporation. No. 141,684; Apr. 26; v. 285; p. 783.
Yarn, Wool. Sears, Roebuck & Company. No. 141,670; Apr. 26; v. 285; p. 783.
Yarns and thread. Dexter Yarn Company. Nos. 141,110–12; Apr. 12; v. 285; p. 380.
Yarns, Cotton. The Fine Cotton Spinners and Doublers Association. No. 141,546; Apr. 26; v. 285; p. 779.
Yarns, Worsteds, woolen, silk, &c. James Lees and Sons Company. No. 141,592; Apr. 26; v. 285; p. 781.

ALPHABETICAL LIST OF LABELS.

"My Formula." (For a Medicinal Preparation for the Treatment of Nervous Diseases.) R. G. Zucker. No. 22,854; Apr. 12; v. 285; p. 390.
"My Formula." (For Medicinal Preparation for the Treatment of Epileptic Fits and Convulsions.) R. G. Zucker. No. 22,855; Apr. 12; v. 285; p. 390.
"Shutters Fudge." (For Candy.) Shutter-Johnson Candy Company. No. 22,856; Apr. 19; v. 285; p. 570.

DISCLAIMERS.

Electric-switch construction. C. D. Platt. No. 1,260,708; date of patent Mar. 26, 1918; disclaimer filed Apr. 11, 1921; v. 285; p. 575.
Winding mechanism. R. McC. Johnstone. No. 1,355,106; date of patent Oct. 5, 1920; disclaimer filed Apr. 12, 1921; v. 285; p. 575.

CLASSIFICATION OF PATENTS.

APRIL, 1921.

Note.—First number—class, second number—subclass, third number—patent number.

93— 39: 1,375,937
43: 1,376,361
61: 1,375,229
80: 1,375,108
83: 1,374,318
94— 11: 1,375,960
95— 1.1: 1,374,875
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ERRATA.

1,377,870, page 342, first claim, lines 3 and 4, strike out the words and comma "throughout substantially its entire length," and insert the same to follow the word "apertures" in line 5.

1,378,991, page 881, in heading, assignment, after "J. F. C. McCarthy," insert the word *Trustee.*

1,372,578, page 791, in heading, assignment, name of assignee, for "Formation Syndicate of Montreal, Canada" read *Formatan Syndicate of Montreal, Canada.*

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DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

MAY, 1921.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*) and of the Supreme Court of the United States by two stars (**).]

ABANDONED EXPERIMENTS.

PRIORITY—REDUCTION TO PRACTICE.

Where experiments by a party to an interference proceeding relating to vacuum fuel-feeding devices were conducted in 1913, after which nothing was done for three and one-half years until he was spurred into activity by seeing the device of his adversary, during which time he was actively engaged in prosecuting applications for various other gasolene-fuel-feeding devices, and in 1914 he assigned all his inventions on fuel-feeding devices except the one involved in the interference, *Held* that such actions indicate that he regarded the invention as worthless and that what was done in 1913 amounted only to abandoned experiments.

[*Jay *v.* Coulombe, 202.

AGREEMENT.

See Concurrent Decisions of the Tribunals of the Patent Office, 4; Delay in Filing Applications, 2.

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See Delay in Filing Applications, 1; Employer and Employee.

CONCURRENT DECISIONS OF THE TRIBUNALS OF THE PATENT OFFICE.

1. PRIORITY—EMPLOYER AND EMPLOYEE.

Concurrent decisions of the Patent Office tribunals awarding priority of invention to Ridge over the claims of joint applicants, Massey and Ziegler, on the basis of the doctrine of employer and employee, not being manifestly wrong, affirmed.

[*Massey and Ziegler *v.* Ridge, 202.

2. SAME—AFFIRMED.

Concurring decisions of the tribunals of the Patent Office holding that Pearsons is entitled to make the counts of the issue and awarding priority to him not being palpably wrong, Commissioner's decision affirmed.

[*Thomson and The Jardine Manufacturing Corporation of New York *v.* Pearsons, 415.

3. NOT REVERSED UNLESS MANIFESTLY WRONG.

Where the three tribunals of the Patent Office are in accord upon a question of fact, the Commissioner's decision will not be disturbed on appeal unless it is clearly wrong. [*Ball *v.* Barnhurst *et al.*, 1059.

4. NOT CONCLUSIVE WHEN NOT CONCURRING ON FACTS OR CONCLUSIONS.

The rule that the court will hesitate to disturb concurrent decisions of the Patent Office does not apply where they did not agree on the facts or the conclusions to be drawn therefrom, though all awarded priority to the same party. [*Laughlin *v.* Burry, 1060.

CONFUSION OF THE PUBLIC.

See Trade-Marks, 4.

CONSTRUCTION OF TRADE-MARK STATUTES.

See Trade-Marks, 1, 7.

COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Trade-Marks, 7, 8, 9.

DAMAGE.

See Trade-Marks, 1, 2.

DECISIONS OF THE COMMISSIONER OF PATENTS.

See Concurrent Decisions of the Tribunals of the Patent Office; Interference, 3; Priority of Invention, 3.

DELAY IN FILING APPLICATIONS.

1. PRIORITY—LACK OF DILIGENCE.
An applicant who conceived the invention in issue on March 25, 1915, gave directions for the preparation of an application in July, 1915, executed it June 5, 1916, and filed it August 29, 1916, is not entitled to an award of priority over another who was later in conception, but who filed his application on August 19, 1915, where the excuse given by the junior party for the delay in executing his application was futile and there was no attempt to explain the subsequent delay in filing the application. [*Bissell v. Phelps, 864.

2. PRESUMPTION.
The delay of an inventor in applying for a patent until four months after the issue of the patent to another claimant of the invention created no presumption in favor of the patentee where the delay was due to an informal arrangement with the patentee's employer for joint ownership and as soon as it became apparent that the employer would not carry out the agreement he took steps to protect his rights and applied for a patent.
[*Laughlin v. Burry, 1060.

DESCRIPTION.

See Prior Applications.

DILIGENCE.

See Delay in Filing Applications, 1.

DISCLOSURE OF INVENTION.

See Interference, 3; Patentability; Prior Applications; Priority of Invention, 1.

1. JUNIOR PARTY TO SENIOR PARTY.
In an interference proceeding in the Patent Office involving an invention relating to side bearings for railroad-cars evidence *Held* to show that the junior party disclosed the invention to the senior party in connection with negotiations with the senior party's employer and subsequent assignee. [*Laughlin v. Burry, 1060.

2. GENERIC CLAIMS.
Where the junior party to an interference proceeding involving side bearings for railroad cars disclosed to the senior party an embodiment of the generic claims of the issue he was entitled to the broad generic claims and not limited to any specific form or arrangement.
[* Id.

DOUBTS.

See Invention; Trade-Marks, 6.

DRAWINGS.

See Prior Applications.

EMPLOYER AND EMPLOYEE.

See Concurrent Decisions of the Tribunals of the Patent Office, 1, 2; Delay in Filing Applications, 2; Disclosure of Invention; Interference, 6; Priority of Invention, 1.

CONCEPTION BY EMPLOYER—EMPLOYER ENTITLED TO RESULT.
Where one conceives an invention and employs another to work out the details of the general conception, the result belongs to the employer.
[*Laughlin v. Burry, 1060.

ERRORS.

See Concurrent Decisions of the Tribunals of the Patent Office, 1, 2, 3.

ESTOPPEL.

See Interference, 5, 6.

EVIDENCE.

See Disclosure of Invention, 1; Interference, 3; Priority of Invention, 1.

FORMER DECISIONS CITED.

See Priority of Invention, 1; Trade-Marks, 8, 9.

GENERIC CLAIMS.

See Disclosure of Invention, 2.

GOODS OF THE SAME DESCRIPTIVE PROPERTIES.

See Trade-Marks, 2, 5.

IMPROVEMENT PATENTS.

See Invention.

INJURY.

See Trade-Marks, 1.

INTERFERENCE.

See Abandoned Experiments; Disclosure of Invention; Prior Applications; Priority of Invention, 1, 2; Terminology.

1. RIGHT TO MAKE CLAIM.
Where the issue of an interference relating to a carbureter includes a mixing-chamber and "a nozzle for discharging liquid fuel" into said chamber, and one party shows a pipe and the other merely a port through which gas flows, *Held* that a port or hole is not a nozzle, and such party has no right to make the claims of the issue. [*Speed v. Kirby. Kirby v. Speed, 415.

2. CLAIMS TO BE READ IN LIGHT OF APPLICATION FROM WHICH TAKEN.
So far as the issue claims in an interference proceeding are taken from one of the parties, they must be read in the light of his application.
[*White v. Cottrell, 645.

3. EVIDENCE—ADMISSION BY FORMER ATTORNEY.
An admission in an interference proceeding that the adversary's exhibit illustrated the subject-matter of the issue, made by a former attorney, if not conclusively binding upon the client, is very persuasive in determining whether the Commissioner's decision that the adversary had disclosed the invention in issue should be affirmed. [*Ball v. Barnhurst *et al.*, 1059.

4. FAILURE TO FILE MOTION TO DISSOLVE—RIGHT TO MAKE CLAIMS.
Where a party to interference proceedings did not file a motion to dissolve in accordance with Rule 122, he is not entitled, under Rule 130, to contend that his adversary cannot make the claims, unless he shows good reasons why he failed to file a motion. [* Id.

5. EXCUSE FOR FAILURE TO MOVE TO DISSOLVE.
Reliance by a party in interference proceedings on estoppel of his adversary, under a prior decision of the appellate court, which was subsequently reversed by the Supreme Court, does not excuse failure to move to dissolve the interference proceedings because the adversary is not entitled to make the claims. [* Id.

6. LICENSE—ESTOPPEL.
Where a party to an interference proceeding, before the corporation of which he was president obtained a license to manufacture the device covered by the other party's patent, had taken steps to apply for a patent, the license did not estop him from claiming the invention, but was justifiable for the protection of his interests. [* Laughlin v. Burry, 1060.

INVENTION.

See Abandoned Experiments; Patentability; Reduction to Practice.

DOUBTS RESOLVED IN FAVOR OF INVENTOR.
A doubt as to whether the improvement is invention or mere mechanical improvement will, as a general rule, be resolved in favor of the inventor.
[*In re* Cofield, 413.

JOINT APPLICANTS.

See Concurrent Decisions of the Tribunals of the Patent Office, 1; Priority of Invention, 1.

JUDGMENT ON THE RECORD.

See Trade-Marks, 7.

JURISDICTION OF THE SUPREME COURT OF THE UNITED STATES.

See Trade-Marks, 7, 8, 9.

LICENSES.

See Interference, 6.

LIMITATION OF CLAIMS.

See Disclosure of Invention, 2.

MECHANICAL SKILL.

See Invention.

MODEL.

See Reduction to Practice.

MOTION TO DISSOLVE INTERFERENCE.

See Interference, 4, 5.

NOVELTY.

See Patentability.

OFFICER OF CORPORATION.

See Interference, 6; Priority of Invention, 1.

OPPOSITION TO REGISTRATION OF TRADE-MARKS.

See Trade-Marks, 4.

PATENTABILITY.

See Invention.

NOVELTY AND INVENTION.
Claims in an application for a patent on improvement in clothes-wringers the only novel element of which was a rigidly attached drain-board and clothes-guide *Held* patentable, since none of the patents of the prior art discloses this idea. [* *In re* Cofield, 413.

PRESUMPTION.

See Delay in Filing Applications, 2.

PRIOR APPLICATIONS.

DISCLOSURE—DESCRIPTION CLEAR, DRAWING UNCERTAIN.
A prior application is not a constructive reduction to practice of an interference issue calling for a certain construction and relation of parts where such application clearly described a different relation, and the only basis for a contrary contention was found in the drawing, which was not clear. [* Allen v. Hill, 201.

PRIORITY OF ADOPTION AND USE.

See Trade-Marks, 3, 5.

PRIORITY OF INVENTION.

See Abandoned Experiments; Concurrent Decisions of the Tribunals of the Patent Office, 1, 2, 4; Delay in Filing Applications, 1; Interference, 1; Reduction to Practice.

1. ORIGINALITY—EMPLOYER AND EMPLOYEE.
Where in an interference between a joint application of Massey and Ziegler, assignor to the Winters-Coleman Company and a later-filed application of Ridge, who was a salesman of the company, it appeared from the evidence that prior to the filing of the joint application Ridge had disclosed to Massey, Winters, and Coleman, who were officers of the company, the features of the invention in such detail as to means of embodiment that his idea could be made practically operative without the exercise of invention, *Held* that Ridge was in the relation to Massey and Ziegler of employer and employee and that the working out of the details therefore inured to Ridge, who was entitled to an award of priority. (*Standard Cartridge Co. v. Peters Cartridge Co.*; C. D., 1897, 257; 78 O. G., 621; 77 Fed Rep., 630.)
[Ridge v. Massey and Ziegler, 199.

2. CONSTRUCTION OF ISSUE—BROAD INTERPRETATION.
Under the rule that the counts of an interference issue should be given the broadest interpretation which they will reasonably support *Held* that Pearsons is entitled to make the claims and that he is entitled to an award of priority. [* Thomson v. Pearsons, 413.

3. RIGHT TO MAKE CLAIMS.
Decision of the Commissioner of Patents finding that Cottrell had a right to make the claims of the issue and awarding priority to him affirmed.
[* Story v. Cottrell, 415.

PROOF.

See Trade-Marks, 2.

REDUCTION TO PRACTICE.

See Abandoned Experiments; Prior Applications.

MAKING MODEL OUT OF CLAY.
An invention relating to caps for the outside end of conduits through which electric wires are led into buildings was not reduced to practice by making a model out of ordinary molding-clay, which would have broken or disintegrated if any attempt had been made to use it. [*Bissell v. Phelps, 864.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks.

RESULTS.

See Employer and Employee.

RIGHT TO MAKE CLAIMS.

See Concurrent Decisions of the Tribunals of the Patent Office, 2; Interference, 1, 4, 5; Priority of Invention, 2, 3; Terminology.

RULES OF PRACTICE OF THE UNITED STATES PATENT OFFICE.

See Interference, 4; Priority of Invention, 2.

SIMILARITY OF TRADE-MARKS.

See Trade-Marks, 3, 4, 5.

STATE OF THE ART.

See Patentability.

SUFFICIENCY OF SHOWING.

See Trade-Marks, 2.

SUITS UNDER SECTION 4915, REVISED STATUTES.

See Trade-Marks, 7.

TERMINOLOGY.

"GRIPPER," AS USED IN INTERFERENCE CLAIMS, DEFINED.

A "gripper," as used in issue claims in an interference proceeding involving sheet-feeding mechanism for printing-presses, is a device which takes hold of or grips and indicates something capable of a clamping action, and a party who has nothing of this character is not entitled to the claims calling for grippers.

[° White v. Cottrell, 645.

TRIBUNALS OF THE PATENT OFFICE.

See Concurrent Decisions of the Tribunals of the Patent Office.

TRADE-MARKS.

1. CANCELATION—DAMAGE.

Under section 13 of the Trade-Mark Act of 1905, providing for the cancelation of a mark upon application by any person who "shall deem himself injured by the registration," the person seeking cancelation must state facts from which, if true, the court may reasonably infer that he might be damaged unless the mark is canceled. [° Skene v. The Marinello Company, 203.

2. SAME—SUFFICIENCY OF ALLEGATIONS.

Where a petition for the cancelation of the word "Marinello" alleges that petitioner used the word in her business for many years, but does not state how it was used—whether as a trade-mark or trade-name upon goods of the same descriptive properties or as the name of a system or otherwise—and the only proof of damage is found in a copy of a bill filed against petitioner by the registrant in a State court, wherein it is alleged that petitioner was using the word as a trade-name for her shop, *Held* insufficient to show damage. The application for cancelation having been filed a year and a half after the filing of the bill, proof that petitioner was then using the mark is not proof that she used it when the application for cancelation was filed. [° Id.

3. SIMILARITY.

A mark consisting of the word, "Sambo," with the full-length representation of a negro having a white cap on his head and wearing a long apron, is not entitled to registration in view of the prior adoption and use by opposer of the well-known mark "Aunt Jemima," comprising a bust picture of a smiling negress with a handkerchief wrapped about her head and shoulders.

[°Aunt Jemima Mills Company v. The Blair Milling Company, 863.

4. SAME—MANNER IN WHICH MARKS MAY BE USED.

In determining the question of possible confusion between the mark of an applicant for registration and opposer's mark it is proper to consider the manner in which applicant's mark may be used. Where opposer's mark comprised a bust figure and applicant's a full-length figure the lower portion of which was partly obscured by printed matter and might easily be more obscured, the difference in the extent of the representation was not of much moment. [° Id.

5. SAME—ADOPTION OF SIMILAR MARK.

Where a new manufacturer adopts as his trade-mark a representation similar to that of an existing well-known trade-mark of a manufacturer of the same class of goods in the same vicinity, the only inference possible is that of gaining advantage from the wide reputation of the established manufacturer. [° Id.

6. DOUBT AS TO IDENTITY.

Where there is doubt about the identity of two marks, the doubt will be resolved against the one last in the field. [° Id.

7. JURISDICTION OF SUPREME COURT.

Section 9 of the act of February 20, 1905, (33 Stat. L., 728,) providing for appeals to the Court of Appeals of the District of Columbia from decisions of the Commissioner of Patents in trade-mark cases, does not authorize a judgment, but only the return by the court of appeals of a certificate to the Commissioner of Patents, to be there entered of record to govern further proceedings in the case. As proceedings may then be instituted under section 4915, Revised Statutes, as in patent cases, such a decision of the court of appeals is in no sense a final judgment reviewable by the Supreme Court on certiorari or appeal.

[°° The Baldwin Company and The Valley Gem Piano Company v. R. S. Howard Company, 865.

8. SAME—INADVERTENT ALLOWANCE OF WRIT OF CERTIORARI IN A PRIOR CASE.

An inadvertent allowance by the Supreme Court of a writ of certiorari to review a decision of the Court of Appeals of the District of Columbia on an application to register a trade-mark does not establish the jurisdiction of the court. (*Frisch* v. *United States*, 248 U. S., 458, 463.) [°° Id.

9. SAME—APPLICATION TO REGISTER MARK.

On writ of certiorari to the Court of Appeals of the District of Columbia to review a decision involving an application to register a trade-mark cause dismissed on the ground that the writ was inadvertently issued for reasons set forth in *Baldwin Company* v. *R. S. Howard Co.*, (286 O. G., 865.)

[°°American Steel Foundries v. Whitehead, Commissioner of Patents, 866.

TRADE-MARK USE.

See Trade-Marks, 2.

TRADE-NAMES.

See Trade-Marks, 2.

Patents Nos. 1,376,391 to 1,377,169.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 286—No. 1. TUESDAY, MAY 3, 1921. Price—$5 per year.
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Issue of May 3, 1921.

Patents	779—No.	1,376,391 to No.	1,377,169, inclusive.
Designs	47—No.	57,759 to No.	57,805, inclusive.
Trade-Marks	404—No.	141,822 to No.	142,225, inclusive.
Labels	31—No.	22,857 to No.	22,887, inclusive.
Prints	6—No.	5,589 to No.	5,594, inclusive.
Reissues	2—No.	15,098 to No.	15,099, inclusive.
Total	1269		

Disclaimers.

1,267,743.—*Wilson L. Campbell*, La Grange, Ill. TELEPHONE SYSTEM. Patent dated May 28, 1918. Disclaimer filed April 18, 1921, by the assignee, *Automatic Electric Company*.

Enters this disclaimer—

"To claims 38 and 39 in the said specification, which are in the following words, to wit:

"38. In a telephone system, a connector, a subscribers' non-numerical individual trunking switch, means for connecting the said individual switch with the said connector, release means for said individual switch under the control of said connector, means for preventing a release of the said individual switch if the called subscriber's line is busy, and automatic means for releasing the connector without releasing the individual switch if the called subscriber's line is busy.

"39. In a telephone system, an automatic connector, a subscriber's non-numerical individual trunking switch, means for connecting the individual switch with the connector, release means for said individual switch under the control of the connector, and means for preventing the individual switch from releasing when the connector attempts to seize a busy subscriber's line."

1,345,725.—*Fred V. Willis*, Oswego, Ill. LIQUID-ELEVATING APPARATUS. Patent dated July 6, 1920. Disclaimer filed April 25, 1921, by the patentee.

Enters this disclaimer—

"To that part of the claims in said specification which is in the following words, to wit:

"2. In apparatus of the character set forth, the combination of a cylinder into which the fluid to be lifted enters, and means for alternately introducing fluid-pressure into said cylinder to force the fluid therefrom, and venting said cylinder of the contained fluid pressure following the fluid-lifting operation comprising a longitudinally movable valve-device, a piston and cylinder device operating said valve device, and means coöperating with the movable element of said piston and cylinder device for presenting to the movement of the latter an overcomable resistance near the end of its stroke only.

"3. In apparatus of the character set forth, the combination of a cylinder into which the fluid to be lifted enters, and means for alternately introducing fluid-pressure into said cylinder to force the fluid therefrom, and venting said cylinder of the contained fluid pressure following the fluid-lifting operation comprising a longitudinally movable valve-device, a piston and cylinder device operating said valve device, and means coöperating with the movable element of said piston and cylinder device for presenting to the movement of the latter an overcomable resistance near the end of its stroke only, in opposite directions.

"4. In apparatus of the character set forth, the combination of a cylinder into which the fluid to be lifted enters, and means for alternately introducing fluid-pressure into said cylinder to force the fluid therefrom, and venting said cylinder of the contained fluid-pressure following the fluid-lifting operation comprising a longitudinally movable valve-device, a piston and cylinder device operating said valve device, and spring means coöperating with the movable element of said piston and cylinder device for presenting to the movement of the latter an overcomable resistance near the end of its stroke only."

Protection of Industrial Property in Morocco.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., April 27, 1921.

The following letter from the Director of the Moroccan Patent Office is hereby published for the benefit of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

From the Director of the Office de Propriete Industrielle, (Morocco Patent Office.)

RABAT, MOROCCO, *Mar. 5, 1921.*

To the Commissioner of Patents, (Official Gazette,) Washington, D. C.

MR. COMMISSIONER: According to the statistics of the Moroccan Patent Office, it appears that commercial and industrial men in your country are not, in appreciable numbers, depositing their factory or trade marks, their designs and models, and their patents of invention, in Morocco.

Nevertheless, except as to marks internationally registered at Berne, your compatriots need to have them filed at Rabat in order to be protected in the French zone of Morocco; and it is to their interest to file them, because this country is in full development and an excellent field for trade.

Doubtless you will consider it helpful so to inform your countrymen and to call their attention to a neglect very harmful to their interests.

At any rate, I have the honor to communicate to you that the Moroccan (Patent) Office holds itself at your disposal for any supplementary information regarding this question.

Accept, if you will, Mr. Commissioner, the assurances of my high and distinguished consideration.

(Signature.)

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APPLICATIONS UNDER EXAMINATION.

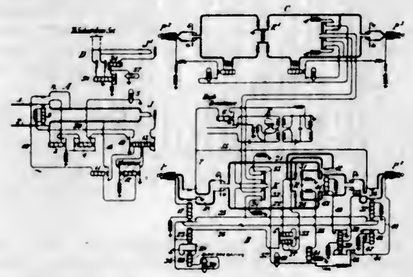
Condition at Close of Business April 23, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 3	Dec. 13	612
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Oct. 15	1,430
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Aug. 6	694
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 1	Jan. 12	1,464
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 21	Sept. 20	616
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Nov. 24	Feb. 9	737
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 14	Jan. 6	1,216
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 3	Mar. 19	516
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Aug. 24	Mar. 9	654
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Oct. 21	Feb. 11	945
134	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Jan. 18	Feb. 15	455
222	12. Machine Elements	Sept. 24	Jan. 28	938
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 28	Jan. 3	1,453
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Aug. 3	Feb. 11	790
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 24	Aug. 20	1,529
111	16. Radiant Energy; Telegraphy; Telephony	July 7	Sept. 24	1,392
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures: Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Nov. 15	Jan. 10	705
239	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type: Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	July 31	Nov. 4	1,410
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Aug. 2	Nov. 18	754
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 20	Jan. 6	994
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Sept. 20	Feb. 19	498
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Dec. 7	Feb. 17	352
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Sept. 11	Jan. 28	785
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 18	Jan. 21	737
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 21	Mar. 7	238
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Sept. 16	Dec. 6	784
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Dec. 1	Jan. 21	904
225	28. Internal-Combustion Engines	Oct. 8	Dec. 23	1,061
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Sept. 4	Feb. 1	618
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 9	Mar. 11	895
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 26	Oct. 2	1,809
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	July 15	Jan. 11	1,093
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 1	Jan. 13	683
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Mar. 21	Mar. 12	187
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 16	Mar. 25	444
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Oct. 29	Nov. 10	1,450
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Nov. 2	Nov. 10	1,547
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 15	Nov. 15	919
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 15	June 5	1,548
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 17	Dec. 13	1,513
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 17	Jan. 6	836
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Aug. 18	Oct. 4	1,787
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Aug. 17	Aug. 18	1,142
258	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Sept. 22	Feb. 16	454
279	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Sept. 13	Jan. 7	962
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Nov. 8	Dec. 30	605
364	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Sept. 10	Nov. 4	1,013
	Oldest new case, June 1; oldest amended, June 5.			
	Total number of applications awaiting action			44,170
143	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 9	Mar. 12	4,582
	Designs	Sept. 25	Dec. 1	1,990
	Labels and Prints	Jan. 3	Feb. 17	637

PATENTS

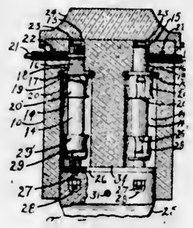
GRANTED MAY 3, 1921.

1,376,391. TELEPHONE TOLL-CIRCUITS. OSCAR M. ARNOLD and JOHN F. TOOMEY, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York, Filed Feb. 24, 1919. Serial No. 278,948. 6 Claims. (Cl. 179—42.)



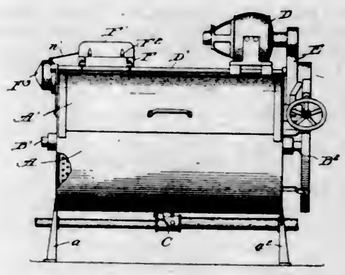
3. In a telephone system, a toll trunk, talking conductors for said trunk, a cord circuit for answering calls incoming over said trunk, a relay associated with the trunk, and means including a sleeve relay associated with said trunk and operable upon the actuation of said first mentioned relay to establish a talking connection through said cord circuit.

1,376,392. FUSE-BLOCK. LOU BELLE ANDERSON, Celina, Tex. Filed Jan. 19, 1920. Serial No. 352,519. 2 Claims. (Cl. 200—129.)



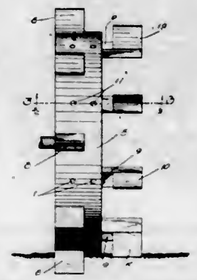
1. In a fuse block an insulating body provided with a plurality of longitudinal apertures and having a main bore at its lower end which leads into the apertures, resilient sockets held within the upper ends of the apertures, an insulating plug adapted for insertion within the main bore to close the same and to be removed therefrom, means to lock the insulating plug within the main bore, a conducting plate secured to the inner end of the insulating plug, resilient sockets connected with the conducting plate and being stiffer than the first named resilient sockets, fuses having their opposite ends held within the two sets of sockets, and means for connecting wires with the first named sockets.

1,376,393. REVERSING MECHANISM FOR CYLINDER WASHING-MACHINES. FRITZ BALZER, Chicago, Ill., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill., a Corporation of New York. Filed June 8, 1916. Serial No. 102,564. 17 Claims. (Cl. 172—240.)



1. In a mechanism for reversing the drive of a power actuated machine, a power-directing member movable alternately to two power-releasing positions, an actuator moving in opposite directions for driving said power-directing member and having, in each direction, a machine-imparted initial movement and a self-propelled actuating movement from the end of said initial movement, and a machine-motion-controlled stop, arresting the power-directing member and the actuator after the former has reached an intermediate position and after the latter has completed its initial movement.

1,376,394. TRACTION-WHEEL. VITUS A. BOKER, Minneapolis, Minn. Filed Aug. 27, 1917. Serial No. 188,285. 2 Claims. (Cl. 301—43.)



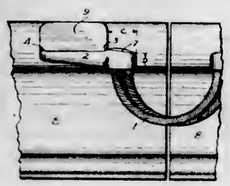
1. The combination with a traction wheel having a rim with main traction lugs thereon, of circumferentially spaced traction bars applied to said rim at points circumferentially between said main traction lug and projecting at one side of said rim, said bars being provided with radially projecting auxiliary traction lugs, said main and auxiliary traction lugs being spaced transversely of said wheel rim, to leave between said main and auxiliary lugs a lugless space extending in a direction around the wheel.

1,376,395. JAR-COVER REMOVER. VITUS A. BOKER, Minneapolis, Minn. Filed Mar. 6, 1920. Serial No. 363,728. 6 Claims. (Cl. 81—3.1.)



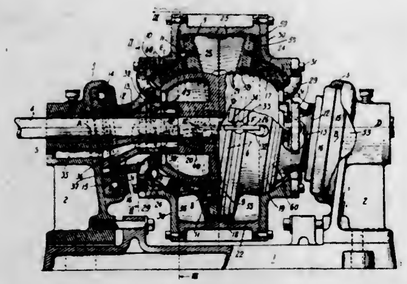
5. A lining for a jar cap remover consisting of a layer of abrasive material in combination with a layer of yielding and slightly elastic material forming a backing for said first mentioned layer.

1,376,396. RAIL-BOND. JOHN R. BROWN, Mansfield, Ohio, assignor to the Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Nov. 9, 1918. Serial No. 261,834. 10 Claims. (Cl. 173—278.)



4. A rail bond comprising in combination a body member and an elongated terminal member secured together, the terminal member having a point of greatest cross-section intermediate its ends and the terminal member reducing in cross-section in both directions therefrom.

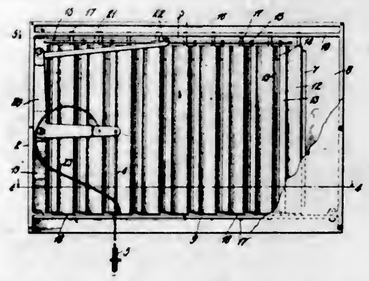
1,376,397. ROTARY ENGINE. FRANS IVAR L. BYLUND, Jersey City, N. J. Filed Dec. 29, 1915, Serial No. 69,166. Renewed Sept. 22, 1920. Serial No. 412,086. 15 Claims. (Cl. 121—69.)



1. In a rotary engine, the combination of a main rotor, and secondary rotors having conical surfaces rolling in contact and coöperating with parts of said main rotor to form a working chamber, the axes of the conical surfaces of said secondary rotors intersecting the axis of rotation of said main rotor at spaced points, and an abutment rotating with said rotors and forming a wall of the working chamber.

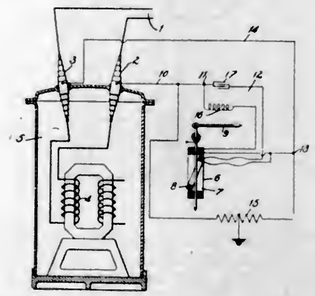
11. In a rotary engine, the combination of a main rotor including a hub having a pair of convex sperical surfaces thereon, a shell having a pair of concave spherical surfaces concentric with the respective surfaces of said hub, said concentric surfaces of said hub and shell forming the inner and outer walls, respectively, of a working chamber, one or more pistons carried by said hub and shell and adapted to cross said working chamber, a pair of secondary rotors associated with said main rotor and having conical surfaces rolling in contact and having spherical surfaces fitting the respective spherical surfaces of said hub and shell, the centers of the respective pairs of concentric surfaces of said hub and shell coinciding with the points of intersection of the axes of rotation of said secondary rotors with the axis of rotation of said main rotor and thrust bearings for said secondary rotors.

1,376,398. TRAFFIC-SIGNAL. CARLOS M. CAMBA, Habana, Cuba. Filed Sept. 11, 1920. Serial No. 409,728. 2 Claims. (Cl. 116—42.)



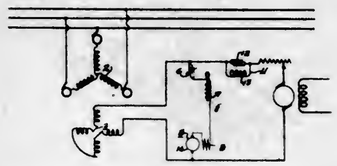
1. In an apparatus for the purpose set forth, the combination of a casing having a sight opening, a series of display elements having diverging wings and provided at the free edges of said wings with inwardly projecting stop flanges, pivots at the junctions of the wings at the upper and lower ends thereof, a link pivotally connected to the upper ends of all said elements, and means within the casing between the back wall of the same and the link and connected to the rear edge of the link to oscillate the link and swing the elements about said pivots whereby to bring corresponding wings into alinement, the stop flanges on said wings being adapted to engage the wings which are out of alinement whereby to limit the swinging movement.

1,376,399. ELECTRICAL MEASURING INSTRUMENT. LEWIS W. CHUBB, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 3, 1916. Serial No. 107,257. 10 Claims. (Cl. 175—183.)



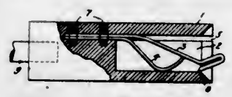
1. A measuring system comprising a condenser, a resonant circuit and a non-resonant circuit operatively connected in shunt with respect to each other and in series with the condenser, and a measuring instrument, said measuring instrument being connected in series with at least one of the said circuits as to be supplied with current that is substantially proportional to the fundamental component of the voltage impressed across the said condenser.

1,376,400. MEANS FOR ELIMINATING DISTORTED HARMONICS FROM ALTERNATING-CURRENT GENERATORS. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 13, 1917. Serial No. 148,426. 9 Claims. (Cl. 172—237.)



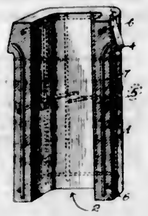
1. The combination with a dynamo-electric machine and a field winding therefor, of means for substantially neutralizing the resistance of said winding to alternating currents which are induced therein by reason of the varying reluctance of the magnetic circuits embodied in said machine.

1,376,401. CONNECTOR. EDWARD M. CLAYTOR, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 28, 1917. Serial No. 183,350. 3 Claims. (Cl. 173—363.)



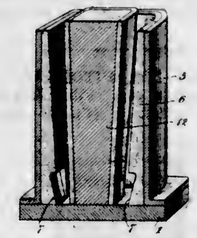
3. A terminal device for an electrical conductor comprising a casing having an opening in one end and a slot in the side portion thereof, a contact member fastened to the casing, and means comprising a knife-blade edge for gripping the conductor in engagement with the contact member when it is inserted in the opening and for permitting disengagement when the conductor is so turned that it passes into the slot in the casing.

1,376,402. REINFORCED INGOT-MOLD. RAY G. COATES, Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed Oct. 30, 1918. Serial No. 260,280. 11 Claims. (Cl. 22—139.)



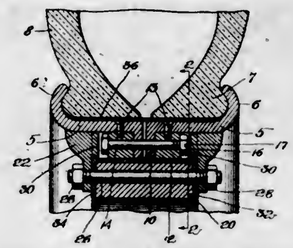
1. An ingot mold for making steel ingots and comprising a vertically extending hollow body portion with the opening in said body portion being slightly tapered from bottom to top, lugs on the upper end of said body portion, the walls of said body portion being constructed of cast iron, and reinforcing means having a lower coefficient of expansion than cast iron and embodied in said cast iron and arranged adjacent the outer portion of the wall of said body member in such manner as to sustain forces tending to crack the said body portion, extending longitudinally of said body portion and into said lugs.

1,376,403. INGOT-MOLD AND METHOD OF MAKING SAME. RAY G. COATES, Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed Nov. 13, 1918. Serial No. 262,279. 7 Claims. (Cl. 22—206.)



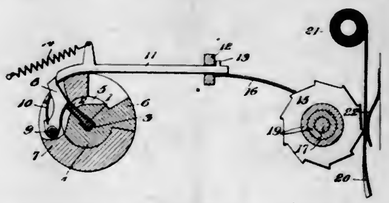
1. As an article of manufacture a lugged ingot mold of direct blast furnace metal and having a body portion with a squarely cut base, and having lugs adjacent the mouth of the body portion, the metal forming the lugs and mouth of said ingot mold being integral with the body of the mold and of the toughest and most dense metal in the said ingot mold, and with more free carbon in the metal at the base of the mold than at the mouth thereof.

1,376,404. DEMOUNTABLE RIM. ALBERT L. COLE, Auburndale, Mass. Filed Oct. 1, 1917. Serial No. 194,127. 1 Claim. (Cl. 301—35.)



A demountable rim comprising two sections of like construction, each of said sections having a tread portion, an outer flange adapted to receive and inclose one lip of a shoe and an inner depending flange perpendicular to said tread portion, a ring rectangular in cross-section secured to said tread portion and fitting within the angle made by said tread portion and said depending flange for supporting the tread portion of said section, said inner flange and said supporting ring being adapted to engage the periphery of the wheel when said section is mounted thereon and means for securing said two sections in an assembled position before mounting on the wheel.

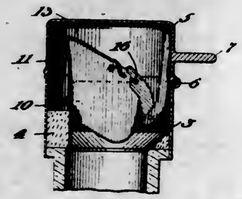
1,376,405. CONTROLLING DEVICE FOR LOCKS. ATTILIO CONTE, Buenos Aires, Argentina. Filed July 16, 1920. Serial No. 396,739. 8 Claims. (Cl. 234—1.)



2. A multi-key lock, comprising a key-operated rotatable element; a set of normally-inactive strikers associated therewith, one for each individual key, each striker being

movable into active position when the corresponding key is operated to turn said rotatable element; a carrier for said strikers operable by said rotatable element; a set of indicating wheels, one for each striker, to determine the particular keys operated to open the lock and the sequence of their operation; and an individual driving connection between each striker and the corresponding indicating wheel.

1,376,406. CLOSURE FOR PITCHERS. EDWARD W. COOPER, Bowling Green, Ky. Filed July 6, 1920. Serial No. 394,247. 4 Claims. (Cl. 65—31.)



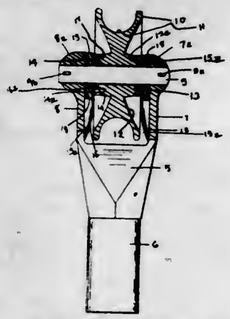
3. A device of the class described, comprising in combination, a vessel top provided with a tilting spout, a spring-pressed lid for said spout, a cap for inclosing said spout and lid and the upper part of the vessel, and mechanism operated when said cap is opened for tilting said spout and for thereafter lifting said lid, said parts being reversely operated when pressure upon the cap is released.

1,376,407. RAILWAY TERMINAL STATION. JOHN J. COUGHLIN, Chicago, Ill. Filed Jan. 23, 1919. Serial No. 272,792. 4 Claims. (Cl. 104—28.)



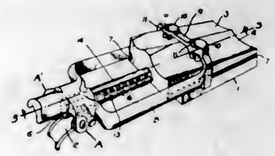
1. In a railway terminal station, a plurality of tracks arranged in three groups, one in advance of the other, the tracks of the outer group being on the same level, the tracks of the central group being arranged some on the same level and some on an upward incline and some on a downward incline and the tracks of the end group being arranged on three levels one above another substantially as shown and described.

1,376,408. TROLLEY-WHEEL. WILLIAM B. CULLEN, Westfield, Mass. Filed July 21, 1919. Serial No. 312,367. 4 Claims. (Cl. 191—61.)



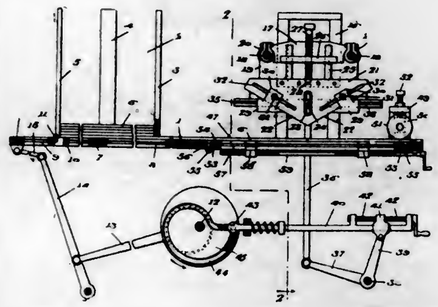
3. A trolley wheel spring having a shaft inclosing head and a reinforcing annulus secured thereto and provided with a concave wheel contacting surface.

1,376,409. ADJUSTABLE STOP MEMBER FOR GAGING-BLOCKS. JESSE DITSON, Littleton, Colo., assignor, by mesne assignments, to Ingersoll-Rand Company, a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,690. 4 Claims. (Cl. 76—5.)



1. An adjustable stop member for gaging blocks for drill bits, comprising a stationary and a relatively movable block, a yoke having slidable engagement with the stationary block and provided with a bit positioning portion at the end engaging the block, a guiding rod fixed relatively to the stationary block, extending through the outer end of the yoke, and locking means between the rod and the yoke for maintaining the yoke in the desired location.

1,376,410. SLOTTING-MACHINE. MOSES B. DISKIN, New York, N. Y. Filed May 24, 1919. Serial No. 299,404. 11 Claims. (Cl. 164—58.)

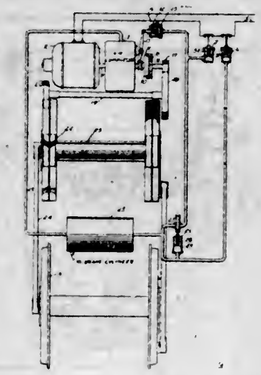


1. A slotting machine embodying a slotting cutter embodying a main blade with a diagonal slotting edge, and a secondary blade adjustable along said edge to determine the length of the slot.

1,376,411. AUTOMATIC PUMPING SYSTEM. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 12, 1917, Serial No. 180,077. Renewed Feb. 18, 1921. Serial No. 446,125. 18 Claims. (Cl. 230—24.)

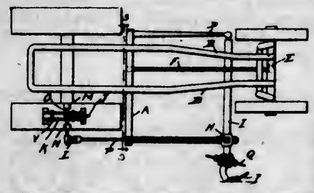
1. In a braking system for a vehicle, the combination with a fluid compressor, of a motor for operating said compressor under predetermined conditions, and means independent of said motor for operating said compressor by the movement of the vehicle.

7. In a braking system for an electric vehicle, the combination with a fluid compressor, an electric motor connected to the compressor, and a fluid-operated clutch for connecting the compressor to the wheels of the vehicle in order to operate the compressor by the movement of the vehicle, of fluid-operated means for effecting operation of the compressor by the motor when the fluid pressure in the braking system is lowered to a predetermined point, means for operating said clutch to operate the compressor by the movement of the vehicle when the fluid pressure in the braking system reaches a second predetermined



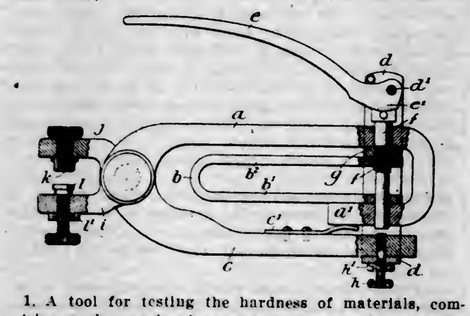
point, and means for insuring the opening of the motor circuit when the compressor is operated by the movement of the vehicle.

1,376,412. TRACTOR-GUIDE. ARTHUR JAMES EDGAR, Humboldt, Ill. Filed Oct. 14, 1920. Serial No. 416,856. 3 Claims. (Cl. 97—81.)



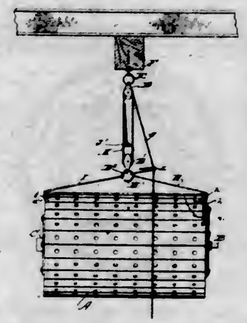
1. A guide for tractors comprising a bar adapted to be rigidly secured to the tractor, an L-shaped lever pivoted to said bar, an arm universally connected to one end of said lever, furrow guiding means carried by the other end of the arm, a push-rod universally connected to the bar and attached to the arm, and means connecting the other end of the lever and the tractor front wheels.

1,376,413. TOOL FOR TESTING THE HARDNESS OF MATERIALS. FREDERICK C. FAIRHOLME, WILLIAM HERBERT HATFIELD, and GEORGE STANFIELD, Sheffield, England, assignors to Firth Sterling Steel Company, McKeesport, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1920. Serial No. 405,199. 6 Claims. (Cl. 265—12.)



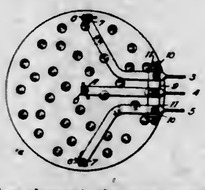
1. A tool for testing the hardness of materials, comprising work engaging jaws, a spring, means for normally holding the spring under strain and manually operable means for causing the force of the spring to be applied to the jaws and thereby force them toward each other with spring pressure, substantially as described.

1,376,414. DEVICE FOR LIFTING WASHING-MACHINE CYLINDERS. FRANK J. FARNSWORTH, Highland Park, Mich. Filed Apr. 28, 1920. Serial No. 377,176. 1 Claim. (Cl. 294—78.)



In a device of the character described, a pulley block adapted to be attached to a ceiling or other support, a running pulley; a pair of arms linked together and connected with the pulley block, each arm having a downwardly directed portion near its free end, with the ends bent at substantially right-angles to the downwardly directed portion to form a hook,—whereby they are adapted to enter holes provided for their reception in the ends of a washing-machine cylinder; a rope or fall coöperating with said pulleys, and a hook-shaped wedge member connected with said links, adapted to receive and grip the free end of the rope when sustaining a load.

1,376,415. ELECTRIC-RANGE HEATING ELEMENT. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed May 15, 1919. Serial No. 297,359. 9 Claims. (Cl. 219—34.)



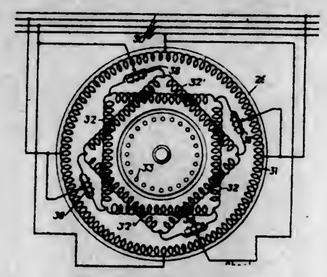
1. In a heating element, the combination with a resistor-supporting means, and a resistor located therein, of a plurality of terminal bars connected to said resistor and located in a plane parallel thereto, the outer end portions of said bars being parallel to each other and extending beyond the supporting means and a single means for holding the end portions of said terminal bars against said resistor-supporting means.

1,376,416. COMB ATTACHMENT TO CURLING-IRONS. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Aug. 6, 1920. Serial No. 401,600. 6 Claims. (Cl. 132—19.)



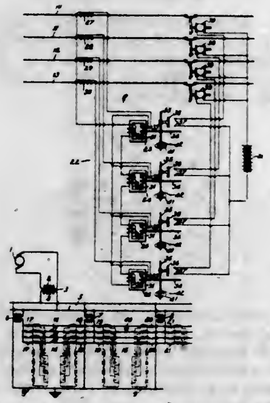
1. An electrically-heated comb comprising an electrically-heated tubular member, a tong pivotally mounted on said tubular member and a comb slidably mounted on said tong.

1,376,417. BALANCING MEANS FOR POLYPHASE SYSTEMS. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 4, 1916. Serial No. 113,101. 11 Claims. (Cl. 172—238.)



8. The method of operating a polyphase dynamo-electric machine connected to an unbalanced polyphase system and provided with means for producing therein a pair of magnetic fields rotating respectively forwardly and backwardly at synchronous speed with respect to the frequency of said system, which comprises adjusting the strength of said backwardly rotating magnetic field proportionally to the degree of unbalance of said system.

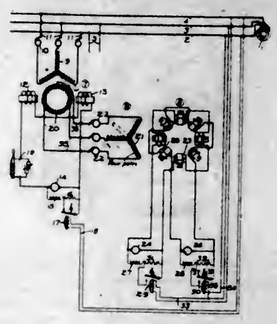
1,376,418. RELAY SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 9, 1916. Serial No. 119,233. 10 Claims. (Cl. 175—294.)



1. In a system of distribution, the combination with a plurality of parallel-connected conductors and a series transformer for each conductor, of an induction relay for each conductor severally having two windings that actuate the relay in accordance with the product of the currents traversing the same, means for connecting one terminal of each transformer to one terminal of one winding of the corresponding relay, and means for connecting the other relay windings in series between the common terminals of the transformers and the common terminals of the first mentioned relay windings.

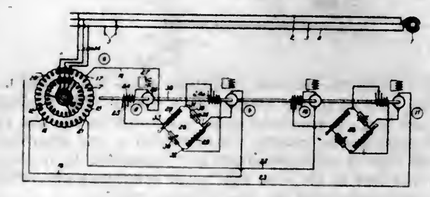
1,376,419. POLYPHASE DISTRIBUTING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 30, 1916. Serial No. 123,031. 25 Claims. (Cl. 172—246.)

6. A phase balancer comprising a polyphase synchronous dynamo-electric machine having one of its windings adapted for connection to a polyphase distributing system, and means for superposing upon the normal excitation thereof



magneto-motive forces of double synchronous frequency and of the proper phase and magnitude in order to maintain balanced polyphase conditions in said winding.

1,376,420. PHASE-BALANCER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1916. Serial No. 129,976. 13 Claims. (Cl. 172—246.)

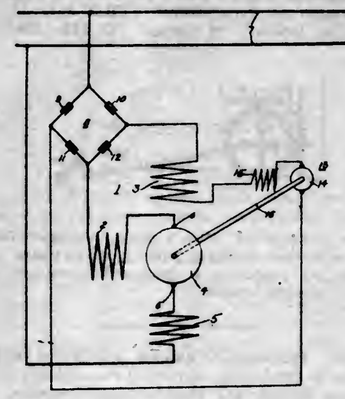


2. A phase balancer comprising a polyphase dynamo-electric machine having one of its windings adapted for connection to a normally unbalanced polyphase system, a second polyphase winding in inductive relation thereto in which super-frequency alternating voltages are induced by the unbalancing-component currents traversing said first winding, and an alternating-current, commutator-type booster connected in series with the phases of said second winding in order to inherently amplify the super-frequency alternating voltages induced therein, said booster having such characteristics as to substantially reduce the effective impedance offered to the flow of the unbalancing component currents by said dynamo-electric machine to zero.

1,376,421. SINGLE-PHASE MOTOR. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 24, 1918. Serial No. 268,176. 19 Claims. (Cl. 172—276.)

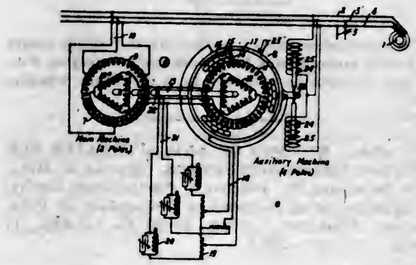
1. A single-phase commutator motor comprising an armature circuit, a main exciting field winding, a commutating field winding, a reactive static network for supplying said commutating field winding with a current in quadrature relationship to the current passing through said armature circuit, and means, dependent upon the speed of said motor, for regulating the current flowing in

said commutating field winding, whereby the rotational electromotive force in the short circuited coil of said arma-



ture circuit shall be constantly annulled by the transformer electromotive force therein.

1,376,422. POLYPHASE DISTRIBUTING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 18, 1916, Serial No. 132,088. Renewed Sept. 2, 1920. Serial No. 407,824. 13 Claims. (Cl. 172—246.)

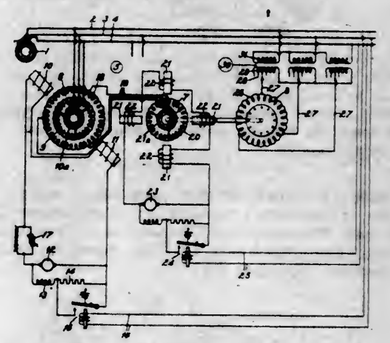


1. A phase balancer comprising a polyphase, induction-type dynamo-electric machine having one of its windings adapted for connection to a polyphase-distributing system, and means for introducing rotating polyphase-magneto-motive forces in said machine in order to amplify its balancing action when connected to an alternating-current, unbalanced distributing system, said polyphase magneto-motive forces being adjustable in phase and magnitude and having a frequency corresponding to synchronous frequency plus the speed of rotation of said machine.

3. A phase balancer comprising a dynamo-electric machine having a winding adapted for connection to a polyphase distributing system, a second polyphase winding in inductive relation thereto which rotates at less than synchronous speed, and means for supplying currents to said second winding to augment the currents induced therein by the unbalancing-component magneto-motive forces resulting from the unbalancing-component currents traversing the said first winding, in order to improve the balancing action of said machine.

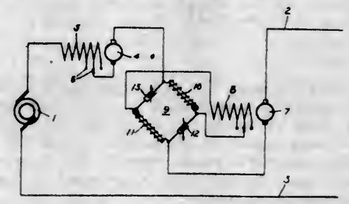
10. A phase balancer comprising a main polyphase dynamo-electric machine having a stationary and a rotating winding, one of which is adapted for connection to a polyphase-distributing system and the speed of rotation of the rotating winding being less than synchronous speed, an auxiliary dynamo-electric machine generating alternating currents having a frequency corresponding to the frequency of the currents induced in that winding of the main machine which is not connected to the distributing system by the flow of the unbalancing-component currents traversing the other winding, means whereby the phase and magnitude of the currents induced in said auxiliary machine may be adjusted, and conductors for introducing the currents from the auxiliary machine into the winding of the main machine not connected to the distributing system.

1,376,423. PHASE DISTRIBUTING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 18, 1916, Serial No. 132,089. Renewed Oct. 9, 1920. Serial No. 415,952. 14 Claims. (Cl. 172—246.)



10. In a phase balancer, the combination with a main polyphase dynamo-electric machine, and means for supplying double-frequency currents thereto, of means for varying the wattless component and the watt component of said double-frequency currents.

1,376,424. REGULATING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Nov. 7, 1916, Serial No. 129,976. Divided and this application filed May —, 1918. Serial No. 232,148. Renewed Oct. 9, 1920. Serial No. 415,953. 20 Claims. (Cl. 171—119.)

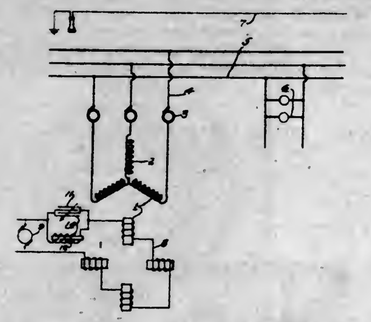


1. The combination with an electrical system, and means for impressing thereupon an alternating-current electromotive force, of means connected in series therewith to compensate for the drops in said electrical system, said means operating to superpose on said electrical system an electromotive force component in phase with the current therein and an electromotive force component in quadrature relationship to the current therein.

1,376,425. MEANS FOR ELIMINATING HARMONICS IN POLYPHASE ALTERNATORS. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 29, 1917, Serial No. 145,232. Renewed Feb. 26, 1921. Serial No. 448,076. 4 Claims. (Cl. 172—246.)

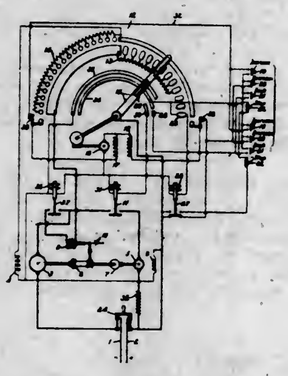
1. A polyphase alternating-current dynamo-electric machine comprising an armature winding through which poly-

phase currents may flow, a field winding, and a parallel-resonant circuit tuned to the proper frequency and connected in series with the field winding in order to sub-



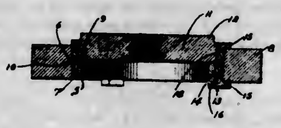
stantially prevent harmonic impulses from being generated in the armature winding when unbalanced polyphase currents obtain therein.

1,376,426. MOTOR-CONTROL SYSTEM. ADOLPH A. GAZDA, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 30, 1916. Serial No. 123,067. 13 Claims. (Cl. 172—179.)



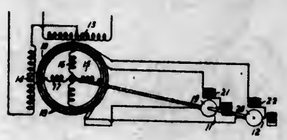
3. In a control system, the combination with a plurality of electric motors and mechanical means for operatively connecting them, of means for connecting the armature windings of said motors in series relation and for controlling said mechanical means whereby the motors are disconnected when one of them is arranged to operate above a predetermined speed.

1,376,427. REMOVABLE VALVE-SEAT. DANIEL T. GRAY, Louisville, Ky. Filed June 15, 1920. Serial No. 389,119. 3 Claims. (Cl. 251—167.)



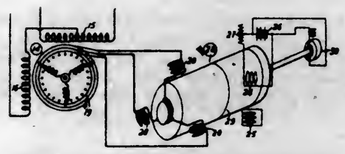
2. In a device of the class described an annular member adapted to be seated in a valve plate, a valve seat secured to the annular member and means coöperating with the valve plate, annular member and the valve seat for securing the said parts together.

1,376,428. SELF-COMPOUNDING PHASE-CONVERTER. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 11, 1916. Serial No. 108,567. 26 Claims. (Cl. 172—238.)



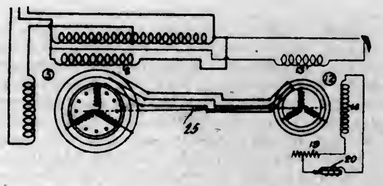
1. The combination with a phase converter for producing polyphase currents from a single-phase source, of means for producing a compounding voltage in the secondary winding thereof.

1,376,429. PHASE-CONVERTER EXCITING SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1916. Serial No. 113,454. 6 Claims. (Cl. 172—245.)



1. The combination with a phase-converter of the rotary type, of coöperating means for conductively supplying both direct and alternating currents to a secondary winding thereof.

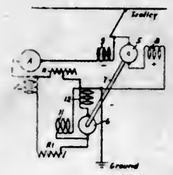
1,376,430. METHOD OF AND APPARATUS FOR EXCITING PHASE-CONVERTERS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1916. Serial No. 113,455. 17 Claims. (Cl. 172—238.)



1. The combination with a main rotary phase-converter, of an alternating-current source of definite frequency connected thereto, and an auxiliary single-phase phase-converter also connected to said source and arranged to act as a source of double-frequency exciting current for said main converter.

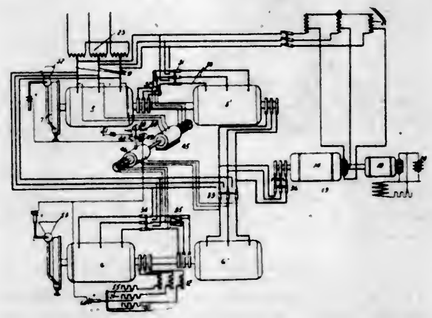
1,376,431. SYSTEM OF CONTROL. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 8, 1917. Serial No. 153,285. 6 Claims. (Cl. 172—179.)

1. In a system of control, the combination with a supply circuit and a dynamo-electric machine adapted for both accelerating and regenerative operation, of means including auxiliary dynamo-electric exciter means having field windings responsive to the machine current for inherently



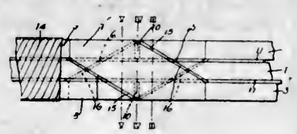
causing said machine to operate in accordance with "flatter" speed-current curves during regeneration than during acceleration.

1,376,432. SYSTEM OF CONTROL FOR INDUCTION-MACHINES. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1917. Serial No. 184,796. 8 Claims. (Cl. 172—274.)



1. The combination with a source of alternating current, of two main, independently-rotatable induction motors, cascade connections from said source through said motors, and electro-responsive means whereby, if either motor tends to exceed a predetermined relative speed with respect to the other, the load thereon is increased, restoring the desired speed relation.

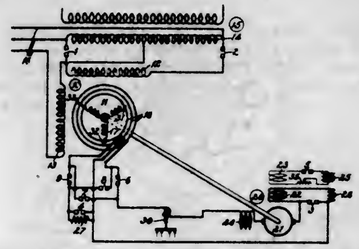
1,376,433. WINDING FOR DYNAMO-ELECTRIC MACHINES. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,334. 7 Claims. (Cl. 171—206.)



1. A subdivided electrical conductor comprising a straight portion and other portions disposed in abutting relation with each other and having cross-over connections with each other.

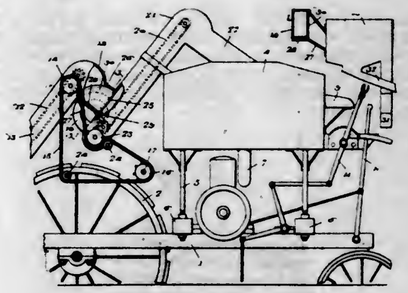
1,376,434. METHOD OF AND APPARATUS FOR OPERATING INDUCTION-MACHINES. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 24, 1916, Serial No. 127,380. Renewed Oct. 12, 1920. Serial No. 416,510. 8 Claims. (Cl. 172—238.)

1. The combination with a source of single-phase alternating current, of a dynamo-electric machine of the single-phase induction type having its primary winding connected thereto, a starting motor of the commutator type for said machine mechanically coupled thereto and connected to



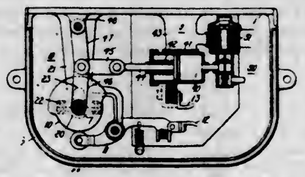
derive its operating energy from the secondary winding thereof, and means for employing said starting motor as a regulating machine in the normal operation of said induction machine.

1,376,435. GRAIN-HOPPER ATTACHMENT FOR HARVESTERS. WILBER C. HELYER, Kent, Oreg. Filed June 30, 1919. Serial No. 307,806. 2 Claims. (Cl. 193—14.)



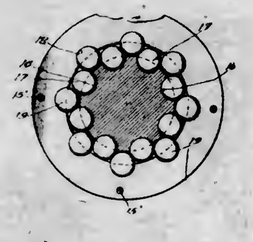
1. In a grain harvester, a grain elevator, a grain storage bin for receiving the elevated grain, an inclined chute leading from the elevator for the passage of the grain to pass to the bin, a spout leading laterally from the bottom and one side of the chute away from said side, and a valve within the chute to be disposed over the spout at the bottom and said side of the chute for directing the grain down the chute and movable to a position to uncover said side and bottom of the chute for the passage of grain laterally into the spout.

1,376,436. CONTROL APPARATUS. OLIVER P. HIPPLE, Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 12, 1917. Serial No. 180,128. 16 Claims. (Cl. 200—17.)



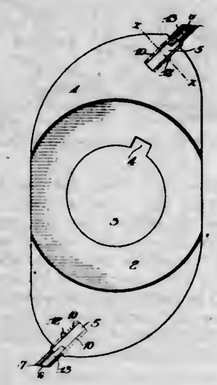
1. In control apparatus, the combination with a rotatable member, of means governed by said member for displacing the axis of said member laterally.

1,376,437. UNIVERSAL JOINT. HARRISON H. HOOD, Chicago, Ill. Filed Aug. 22, 1919. Serial No. 319,049. 9 Claims. (Cl. 64—91.)



9. A universal joint comprising a head and a receiving housing and radially inner and outer series of balls seated in said head and housing, respectively, the balls of one series contacting with those of the other series and having their axes disposed in radial planes different from those of the other series, said housing comprising a permanent and removable member having means in the plane of the axis of the head to join them, and the removable member being grooved to receive a packing ring to bear on the spherical face of the head.

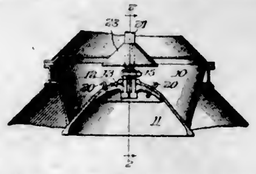
1,376,438. INSERTED-TOOTH CUTTER-HEAD AND METHOD OF MAKING THE SAME. WARREN B. HUTHER, Rochester, N. Y., assignor to Huther Bros. Saw Mfg. Co., Rochester, N. Y., a Corporation of New York. Filed Feb. 14, 1920. Serial No. 358,615. 8 Claims. (Cl. 76—101.)



1. A cutter head comprising a supporting head or plate drilled edgewise thereby forming therein a seat having transversely curved sides of the same width as said head or plate, a cutter projecting beyond the margin of the plate and having a rounded shank fitted into said drilled seat, and a locking pin or key passed transversely through the plate and the cutter shank at the joint between them and securing the cutter to the head plate.

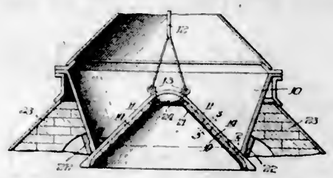
1,376,439. BLAST-FURNACE-CHARGING BELL. EDWARD L. IVES, Chicago, Ill., assignor to Freyn and Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 27, 1918. Serial No. 219,400. 2 Claims. (Cl. 214—36.)

1. A bell, for blast furnace charging apparatus, comprising a bell body, a carrier member within and shaped to fit the crown of the bell, and a suspending device rising from the carrier and extending loosely through the carrier and the bell, said carrier lying in contact with the bell,



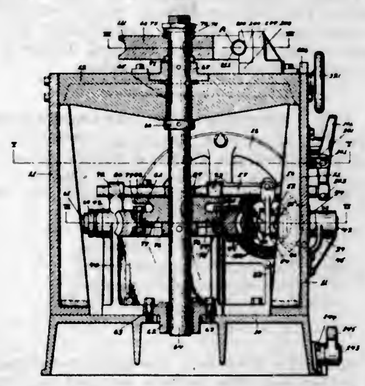
and said bell and carrier being free to expand and contact independently of one another and independently of the suspending device.

1,376,440. MEANS FOR PROTECTING BLAST-FURNACE PARTS. EDWARD L. IVES, Chicago, Ill. Filed Mar. 27, 1918. Serial No. 224,926. 7 Claims. (Cl. 266—43.)



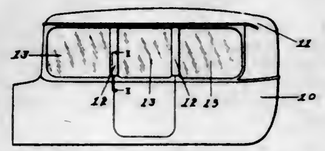
2. In combination, heat insulating means comprising layers of heat resisting elements, and means interposed between the said layers for securing the heat insulating means to a portion of a blast furnace.

1,376,441. TUBE-BENDING MACHINE. EDWARD KAMPER, Toledo, Ohio, assignor to the Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 13, 1918. Serial No. 216,844. 24 Claims. (Cl. 153—40.)



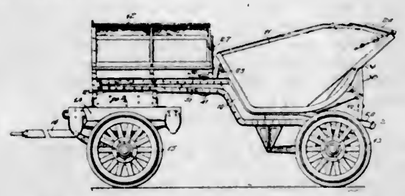
1. A machine of the class described, comprising the combination of a table; a vertical disposed shaft having its upper end extending through said table; means for driving said shaft; a wheel fixed on the upper end of said shaft above said table, and provided with a groove in its periphery; an arm loosely journaled on the upper end of said shaft adjacent to said wheel rotatable independently thereof, and provided with tube gripping means in the end thereof; a block mounted on said table; and a die carried by said block, and provided with a groove in its inner face mating with the groove in the periphery of said bending wheel.

1,376,442. DETACHABLE CONNECTING DEVICE. THOMAS J. KEHOE, Toledo, Ohio, assignor to the Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 30, 1917. Serial No. 183,590. 7 Claims. (Cl. 296—45.)



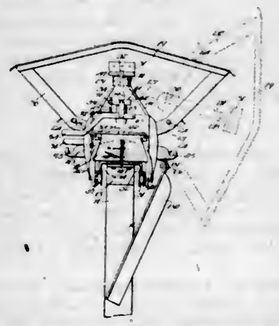
1. In a device of the class described, the combination of two members movable relatively to each other; a spring-pressed bolt, slidably but non-rotatably carried by one of said members, and having a head provided with laterally projecting pins; a keeper plate carried by the other of said members, and provided with an elongated slot and a cross slot communicating therewith; and a pair of blocks secured to the inner side of said keeper plate, adjacent to the edges of said slot, and provided with curved faces, adapted to be engaged by said laterally projecting pins.

1,376,443. CONVERTIBLE TRAILER. ALBERT P. LEE, Chicago, Ill., assignor to Lee Loader & Body Company, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,202. 15 Claims. (Cl. 298—10.)



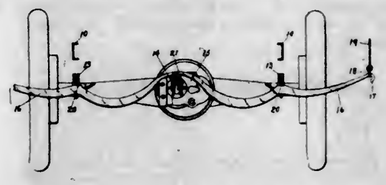
1. In a device of the character described, a vehicle framework provided with a runway having a flat portion and a downwardly sloping portion, a hopper having an inclined front wall and a flat portion conforming to the flat portion of said runway, said hopper being adapted to roll automatically down the sloping portion of said runway to discharge position, and an abutment having an inclined face conforming to the inclined front wall of said hopper, said flat portions and said inclined portions coöperating to provide a substantial support for said hopper while in normal position.

1,376,444. MONORAIL RAILWAY. ALBERT P. LEE, Chicago, Ill., assignor to Lee Loader & Body Company, Chicago, Ill. Filed July 2, 1919. Serial No. 308,100. 31 Claims. (Cl. 105—144.)



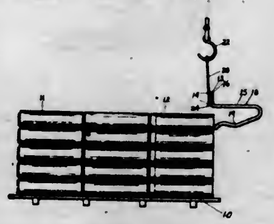
1. A monorail railway of the character described comprising a rail, a car having a load carrying body mounted upon said rail, means engaging the lower side of the rail to prevent the car from tipping off the rail, and means whereby the load in said body may be dumped on either side of the rail.

1,376,445. VEHICLE-LIFTING MEANS. ARTHUR D. LIGHTNER and EDWARD HOLMES, Toledo, Ohio, assignors to the Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 29, 1918. Serial No. 264,576. 4 Claims. (Cl. 294—82.)



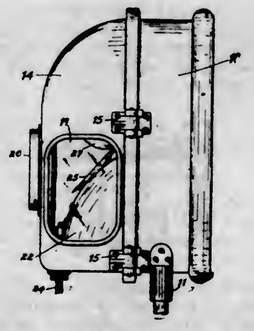
1. In devices for lifting and suspending automobiles, a pair of lever members, each of which is provided at one end with a curved portion adapted to bear upon the upper surface of a propeller shaft, a portion intermediate its ends for engagement with a portion of the automobile frame, and a hook at the opposite end for connection to a hoisting mechanism.

1,376,446. LIFTING-HOOK FOR SHELLS. ARTHUR D. LIGHTNER and EDWARD HOLMES, Toledo, Ohio, assignors to the Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,919. 2 Claims. (Cl. 294—87.)



1. In a device of the class described, in combination, a channeled base portion, a bail passed through the flanges of the base portion and fixed thereto, and a plurality of hooks secured to the base portion and extending therefrom at an angle to the plane of the base portion.

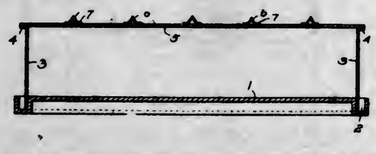
1,376,447. HEADLIGHT. WILLIAM A. LORENZ, Hartford, Conn. Filed Jan. 2, 1920. Serial No. 348,907. 8 Claims. (Cl. 240—41.)



1. An automobile head light having a sectional casing, the front section being provided with a transparent win-

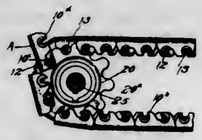
dow and means for permanently fixing the front section to a vehicle, and the rear section being hinged at the outside to the front section and containing an electric lamp and a reflector adjacent to the lamp for projecting light rays forwardly when the sections are closed and projecting light rays onto the engine when the rear section is opened from the front section.

1,376,448. ANNEALING-BOX. HARRY T. MCBRATNEY, Tarentum, Pa., assignor to Valley Holding Corporation, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Nov. 4, 1920. Serial No. 421,669. 6 Claims. (Cl. 263—49.)



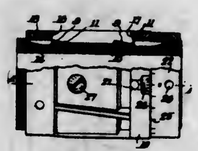
1. A sheet metal annealing box reinforced by hollow V shaped stiffeners of sheet metal.

1,376,449. CHAIN-GRATE CONSTRUCTION. PETER H. MCKENZIE, Chicago, Ill. Filed Apr. 11, 1919. Serial No. 289,273. 8 Claims. (Cl. 110—40.)



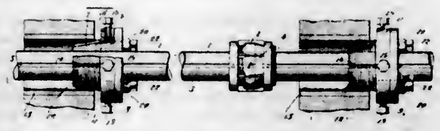
1. In combination, a plurality of transverse rods, alternate of said rods being circular in cross section and intermediate of said rods each having a flattened portion, links supported by said rods, each having a fuel supporting face, each of said links having an aperture adjacent one end thereof engaging one of said circular rods and a longitudinally directed slot leading from said aperture toward the other end of said link, said slot being open at its end to permit insertion of one of said rods from the face of said link opposite the fuel supporting face, said link being provided with a second aperture adjacent its other end, and a slot of reduced width leading from said second-named aperture to the face opposite the fuel supporting face of said link, said second-named aperture being in engagement with said flattened rods, said restricted slot permitting removal of the link from said rod only when said flattened portion is in alinement with said slot.

1,376,450. ADJUSTABLE REAMER-HEAD. ALBERT A. MARTELL, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed July 7, 1917. Serial No. 179,191. 8 Claims. (Cl. 77—75.5.)



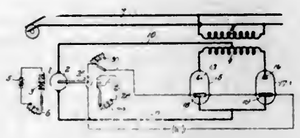
3. As an article of manufacture, a reamer comprising a body portion, a plurality of diametrically opposed blades arranged in pairs and angularly disposed on said body portion, with the angle of one pair of blades being different from the angle of another pair of blades and with the diametrically disposed blades of each pair being inclined in the same direction and set at equal angles whereby the cutting edge of one blade is diametrically opposite throughout its length to the cutting edge of another blade of the same pair.

1,376,451. ADJUSTABLE BUSHING FOR REAMER-SHAFTS. ALBERT A. MARTELL, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Oct. 17, 1918. Serial No. 258,591. 17 Claims. (Cl. 77—55.)



1. A temporary bearing for a reamer shaft and adapted to be seated in a permanent bearing to be alined, said temporary bearing comprising an anchoring member having a conical screw-threaded anchoring surface adapted to be secured in a permanent bearing, said anchoring member being provided with a conical bore, a reamer shaft bearing member mounted within said anchoring member and comprising a conical sleeve adapted to accurately fit the conical bore in said anchoring member, oppositely disposed adjustment screws carried by said anchoring member and adapted to support said bearing member when the said bearing member is withdrawn slightly from the said anchoring member, and means to determine the extent of the withdrawal of said bearing member from said anchoring member.

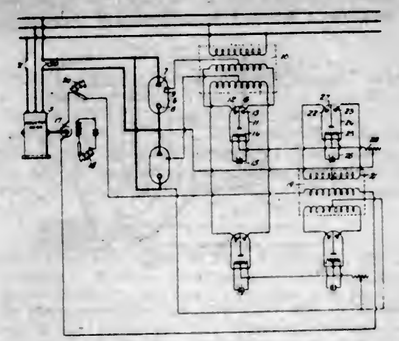
1,376,452. CONTROLLING AND REGULATING APPARATUS FOR DYNAMO-ELECTRIC MACHINES. FRIEDRICH WILHELM MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 8, 1917. Serial No. 206,356. 10 Claims. (Cl. 171—119.)



2. A regulator for a direct current dynamo electric machine to be operated by current from an alternating current source, comprising an electrolonic valve through which the alternating current is converted into unidirectional pulsations for the machine, and means responsive to speed variations of the machine and coincidently controlling the action of the valve to regulate the amount of pulsatory current supplied to the machine.

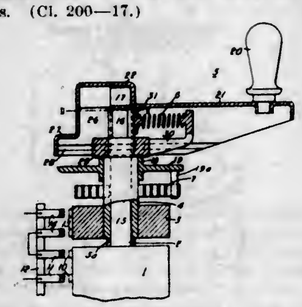
1,376,453. CONTROLLING AND REGULATING APPARATUS FOR ALTERNATING-CURRENT DYNAMO-ELECTRIC MACHINES. FRIEDRICH WILHELM MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 21, 1918. Serial No. 212,946. 11 Claims. (Cl. 171—119.)

1. Controlling and regulating apparatus for alternating current dynamo electric machines, comprising an electrolonic valve for controlling and regulating the durntion magnitude or frequency of the current supplied to the machine, means responsive to speed variations of the machine, and controlling devices for the electrolonic valve



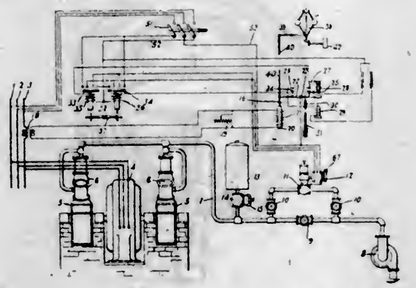
for controlling the discharge characteristics thereof coincidently with speed variations of the machine, whereby substantially constant speed of the machine is maintained.

1,376,454. CONTROL APPARATUS. FREDERICK H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,787. 11 Claims. (Cl. 200—17.)



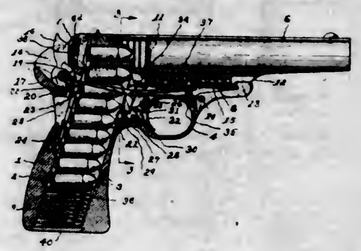
1. In control apparatus, the combination with a switching device, and a rotatable operating member therefor, of means requiring a radial pressure upon and a radial bodily movement of said member for rendering said switching device operative.

1,376,455. SYSTEM OF PRESSURE REGULATION. EDWARD T. MOORE, Syracuse, N. Y., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 23, 1915. Serial No. 23,387. 5 Claims. (Cl. 171—312.)



3. The combination with a motor, and a mechanism to be driven thereby, of means for maintaining a substantially uniform load upon said mechanism, said means comprising a source of fluid-pressure, automatic means for varying the pressure exerted by said source, and a second source of fluid-pressure for preventing oscillations of said automatic means.

1,376,456. AUTOMATIC FIREARM. ROBERT ALEXANDER MOORE, New York, N. Y. Filed Feb. 4, 1920. Serial No. 356,354. 12 Claims. (Cl. 42—3.)



1. In a firearm having a sliding barrel, a hammer, a trigger, and an integral three armed lever, one of the arms being operatively connected with the hammer, while another arm has an operative connection with the trigger and the third arm is acted upon by the sliding of the barrel to cock the hammer.

1,376,457. PULLEY-BLOCK. JOHN B. NESMEYER, Omaha, Nebr. Filed Apr. 10, 1920. Serial No. 372,773. 4 Claims. (Cl. 254—192.)

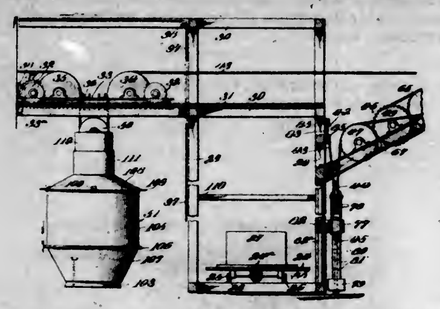


1. A device of the class described comprising a plurality of spaced parallel plates, a connecting pin extending through the lower portions of said plates, spacing elements carried by said pin, anti-friction elements arranged on opposite sides of said spacing elements and confined between said plates, and sheaves rotatably arranged between said plates and engaging said anti-friction elements.

1,376,458. MECHANISM FOR FEEDING BLAST-FURNACES. BASIL NEWTH, Sydney, New South Wales, Australia, assignor to Robert Houston Barr, Otto Bohrsmann, Ivan Henry, and Alexander Markell, Sydney, New South Wales, Australia. Filed Aug. 2, 1918. Serial No. 247,974. 10 Claims. (Cl. 214—18.)

1. The combination with a blast furnace having an inlet provided with a normally closed bell, of mechanism for

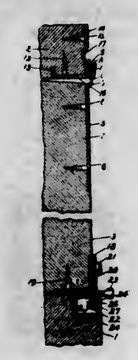
conveying a bucket to said furnace, and means included in said bucket conveying mechanism for causing depression of said bell when the bucket is connected with the inlet opening of said furnace.



1,376,459. PROCESS FOR SEPARATING SOLID PARTICLES FROM SUSPENSION. NILS PEDERSEN, Dorregaard via Sarpsborg, Norway. Filed Sept. 3, 1918. Serial No. 252,435. 2 Claims. (Cl. 210—53.)

1. The process of separating fibers from waste liquors of paper mills, which comprises subjecting the liquor to stirring while under pressure and while introducing a gas under pressure and then discharging the liquid and permitting the liberation of the gas.

1,376,460. VEHICLE-BODY. PERCY W. POMEROY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio. Filed Apr. 9, 1917. Serial No. 160,704. 13 Claims. (Cl. 296—45.)

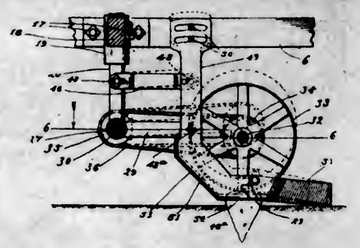


1. In a vehicle body provided with a top, the combination of removable door and window pillars; engaging means for the upper end of each pillar, comprising an engaging member having a curved portion, said engaging means being secured to said pillar; a catch having an upturned end, said catch being secured to said top; a plate secured to said top; and means for interlocking the bottom of each pillar so that the curved portion of said engaging member is drawn firmly between the said plate and the upturned end of said catch.

1,376,461. BEET-TOPPER. HARRISON D. PROSE, Macksville, Kans. Filed Oct. 22, 1918. Serial No. 259,240. 11 Claims. (Cl. 55—107.)

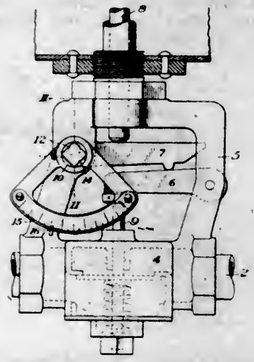
1. In a beet harvester, a frame, means to support said frame, horizontally disposed arms pivotally connected to said frame, a beet engaging means connected to said arms, a knife pivotally connected to said arms intermediate said beet engaging means and the pivotal connections of said arms, and said knife pivotally connected to said frame.

8. In a beet harvester, a frame, means to support said frame, a knife carried by said frame and arranged to split and remove the upper part of the body of beets standing in the field, and a pair of arms forming a V shape pivotally



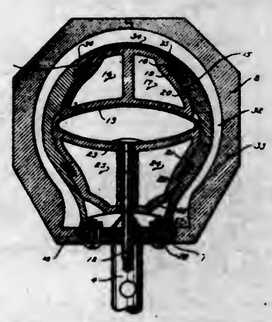
connected to said knife with the connecting ends of the arms disposed forwardly and resting on the ground to remove from the path of said knife the parts of the beet cut from the remaining body portion.

1,376,462. ECCENTRIC ADJUSTMENT FOR THERMOSTATS. GEORGE A. ROBERTSHAW, Greensburg, Pa. Filed Apr. 14, 1920. Serial No. 373,980. 10 Claims. (Cl. 297—11.)



4. An adjustment for thermostats comprising a support, a lever, an eccentric coöperating with said lever, and means for adjusting said eccentric, substantially as described.

1,376,463. VULCANIZING APPARATUS. INGEMAR K. RYSTEDT, Dayton, Ohio. Filed Mar. 11, 1921. Serial No. 451,483. 11 Claims. (Cl. 18—45.)

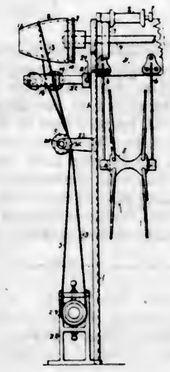


1. In an air bag, a main body portion at one end, a second main body portion at the other end, and a depressed area located between said main body portions, said depressed area communicating with an entrance opening into said air bag, the ends of said main portions being sealed.

1,376,464. ARTIFICIAL STONE OR BRICK. WOOTSON L. SANDERSON, Meridian, Miss. Filed June 30, 1920. Serial No. 393,137. 1 Claim. (Cl. 106—24.)

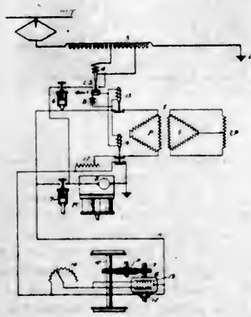
Artificial stone including, in approximately the proportions stated, 5 cubic feet of sand, 3¾ pounds red oxid of iron, 2½ pounds plaster Paris, 1½ pounds of ocher, 1½ pounds of salt, 10 ounces of sugar, and 95 pounds of cement.

1,376,465. BELT-DRIVE FOR TEXTILE-WINDERS. EUGENE P. SEARING, Hawthorne, N. J. Filed Mar. 25, 1919. Serial No. 284,989. 2 Claims. (Cl. 74—21.)



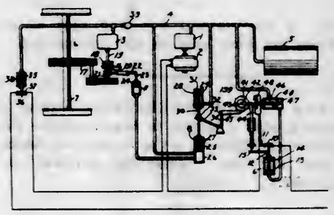
2. In a textile winding machine a cone shaped pulley having a curved surface on a center of curvature about a central point outside the cone, a belt or band running from said central point around said cone shaped pulley retaining its uniform friction on the pulley, a stand carrying rolls constituting the above mentioned central point and said rolls forming belt shifting means for the purpose of producing a variable speed, in connection with a groove at one end of the pulley for stopping purposes.

1,376,466. SYSTEM OF CONTROL. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 15, 1917. Serial No. 174,902. 4 Claims. (Cl. 303—3.)



1. In a system of control, the combination with a supply circuit, an electric vehicle-propelling motor, and a motor-driven air compressor operated from the supply circuit, of an auxiliary generating dynamo-electric machine driven from the vehicle wheels, and means dependent upon a predetermined variation in the supply-circuit voltage for connecting said machine to energize said motor to effect dynamic-braking of the vehicle and for operating said air compressor.

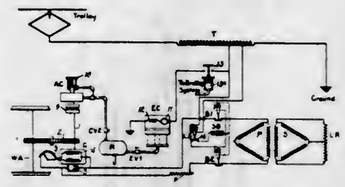
1,376,467. COMPRESSOR SYSTEM. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1917. Serial No. 193,686. 19 Claims. (Cl. 230—24.)



1. The combination with a pair of compressors, of means directly responsive under all conditions to the delivered pressure of only one of said compressors for operating said compressors according to a predetermined sequence.

12. In a compressor system for a vehicle, the combination with a motor-driven compressor, and a compressor driven by the momentum of the vehicle, of means for selectively operating said compressors in accordance with the fluid pressure in the compressor system, means for preventing the simultaneous operation of the two compressors, and means for insuring the operation of the compressors in a given sequence under normal operating conditions.

1,376,468. SYSTEM OF CONTROL. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 10, 1914, Serial No. 876,441. Renewed Aug. 16, 1918. Serial No. 250,231. 49 Claims. (Cl. 303—3.)

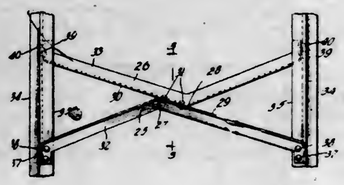


1. In an electric vehicle, the combination with a supply circuit and an air compressor operated from the supply circuit, of a second air compressor, means for effecting dynamic-braking, and means for operating said second air compressor by the momentum of the vehicle.

1,376,469. RAILWAY-CAR-ROOF STRUCTURE. VINTON E. SISSON, Chicago, Ill., assignor to The Pressed Steel Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed June 18, 1917. Serial No. 175,471. 10 Claims. (Cl. 108—5.6.)

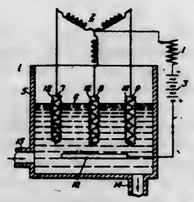
2. A metal carline having a pair of divergent legs at each end comprising two elements secured together, each

of which has a vertical web and a laterally extending web, the lateral web of one element extending from the



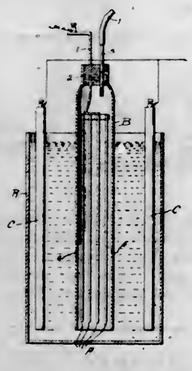
upper edge of the vertical web and that of the other element from the lower edge of the vertical web.

1,376,470. LIQUID-RHEOSTAT. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1919. Serial No. 291,156. 8 Claims. (Cl. 219—57.)



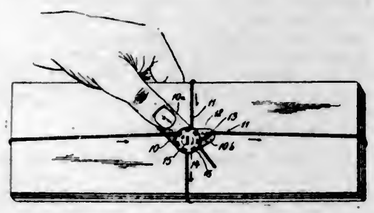
1. In a liquid rheostat, the combination with an electrode, of means composed of insulating material applied to the electrode for certain protective purposes.

1,376,471. APPARATUS FOR THE PRODUCTION OF A CHLORIN SOLUTION. MAURICE G. SLOCUM, St. Joseph, Mo. Filed Nov. 29, 1919. Serial No. 341,380. 4 Claims. (Cl. 204—58.)



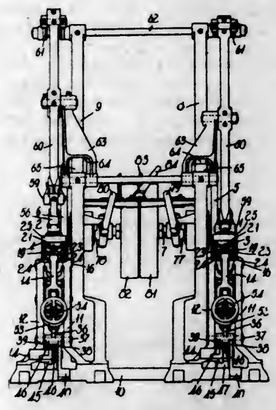
1. In the production of a chlorin solution, means for subjecting a solution of sodium chlorid to electrolysis, and means for surrounding the anode with chlorin gas under pressure.

1,376,472. PACKAGE-TIE. GEORGE C. SNYDER, New York, N. Y., assignor of one-sixth to Frank K. Hoffman and one-sixth to E. Theo. I. Thygeson, New York, N. Y. Filed July 28, 1917. Serial No. 183,223. 3 Claims. (Cl. 24—18.)



3. A fastener of the kind described, comprising an inner member, an outer member spaced from the inner member, a tying string, and a clenched staple piercing the two members and serving to mount the outer member on the inner member so that convolutions of the string may be wedged between the two members when the string is carried around the staple, the outer member being provided on its under side with a plurality of ratchet-shaped projections so arranged that as the tying operation is completed, portions of the string are locked between the projections and previously wound portions of the string.

1,376,473. GLAZING-MACHINE. WALTER R. SOPER, Lynn, Mass., assignor to Associated Tanners Machinery Co., a Corporation of Massachusetts. Filed June 28, 1917. Serial No. 177,565. 6 Claims. (Cl. 149—18.)



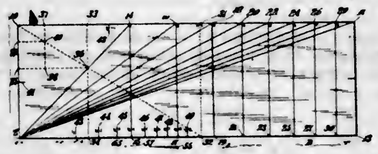
1. A glazing machine having, in combination, a work support, a pair of rocker frames arranged to rock about parallelly disposed axes disposed transversely of said work support, means for connecting said rocker frames together, shafts constituting pivots for fastening each of said rocker frames to the adjacent end of said work support, the axes of said pivots being substantially parallel with the surface of said work support and at right angles to the axes of said rocker frames, means for rocking said work support about said pivots, and means connected with one of said rocker frames adapted to operate the same to raise and lower said work support.

1,376,474. APPLIANCE FOR RIFLING THE MARGIN OF THE SOLE OF FOOTGEAR. MARIUS METHILTUS SÖRENSEN, Valleröd, near Rungsted, Denmark. Filed Oct. 3, 1919. Serial No. 328,140. 1 Claim. (Cl. 12—32.)



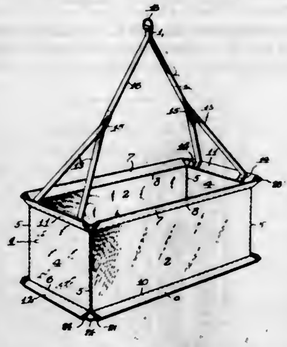
A rotating tool for rifling the margin of the sole of footwear, having a projection on its periphery in the shape of a screw-thread.

1,376,475. DESIGNER'S TOOL. ALBERT A. SOUTHWICK, New York, N. Y. Filed Aug. 15, 1919. Serial No. 317,664. 4 Claims. (Cl. 33—1.)



1. A designer's tool comprising a transparent sheet, the edge of which serves as guiding means for the drawing of one or more sides of a whirling square and a series of root rectangles and which sheet has indicia at the edges of the sheet demarking practically exactly the diagonal of the whirling square and the diagonals of the root rectangles, of which the edges of the sheet form sides.

1,376,476. CHILD'S SANITARY BED-SWING. ERNA M. STEPKE, Detroit, Mich. Filed Dec. 31, 1919. Serial No. 348,621. 5 Claims. (Cl. 5—59.)



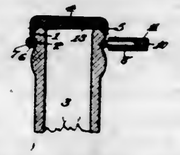
1. In a device of the character described, the combination of a fabric body having sides and a bottom, a frame for holding the upper edges of the sides in extended position, hems connected to the body along the meeting angles of the sides and bottom, and the open frame comprising a pair of side members and a pair of end members connecting the ends of the side members, said side members being engaged within said hems and lying outside the planes of the surfaces of said sides of the body.

1,376,477. BOTTLE-CAP. ROBERT STOCK, Sandusky, Ohio. Filed Oct. 2, 1919. Serial No. 327,944. 3 Claims. (Cl. 215—38.)



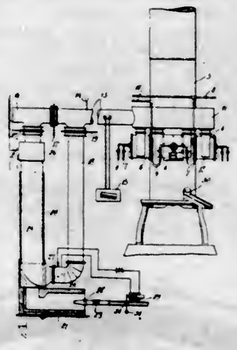
1. A bottle cap having depending fingers and a ring secured to said cap by said fingers, said ring having a horizontally disposed yielding open loop interposed between two adjacent fingers to allow the ring and fingers to expand.

1,376,478. BOTTLE-CAP. ROBERT STOCK, Sandusky, Ohio. Filed Jan. 15, 1920. Serial No. 351,592. 7 Claims. (Cl. 215—45.)



1. A bottle cap having depending fingers, a resilient ring carried by said fingers, a portion of said ring extending laterally therefrom, and horizontally movable means frictionally engaging said portion for contracting the ring to control the movement of the fingers.

1,376,479. SMELTING OR FUSING METALLIC SUBSTANCES. BRADLEY STOUGHTON, New York, N. Y. Filed Apr. 14, 1919. Serial No. 289,927. 6 Claims. (Cl. 263—19.)

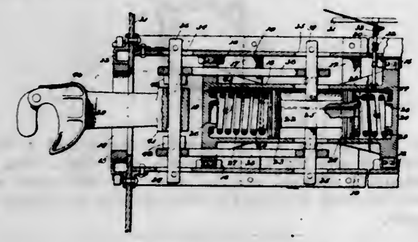


1. The improvement in the process of smelting or fusing metallic substances which comprises subjecting the metallic substance in a furnace to the action of the heat resulting from the combustion of fuel, and controlling the temperature of the furnace product by means of a heated air blast whose temperature can be rapidly regulated at will.

1,376,480. DRAFT-RIGGING. BRUCE P. STRAW, Cumberland, Md. Filed Aug. 28, 1919. Serial No. 320,367. 3 Claims. (Cl. 213—2.)

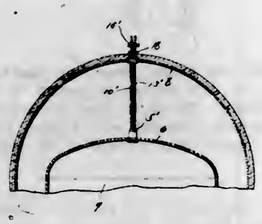
1. Draft rigging comprising draft sills, a cylinder rigidly connected at both its ends to the draft sills, a double-

headed piston in the cylinder, means for cushioning the movement of the piston toward either end of the cylinder, a draw bar in axial alinement with the cylinder, a cross bar slidably mounted on the draft sills and con-



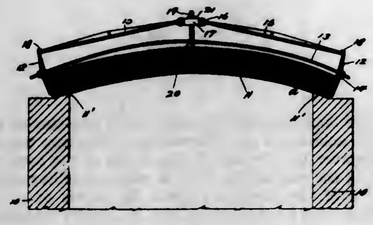
nected to the inner end of the draw bar, a second cross bar slidably mounted on the draft sills and connected to the piston intermediate the ends thereof, and tie bars connecting the cross bars.

1,376,481. FUSIBLE PLUG. BENJAMIN P. TERRELL, Warrenton, N. C. Filed Oct. 28, 1919. Serial No. 333,999. 1 Claim. (Cl. 122—504.1.)



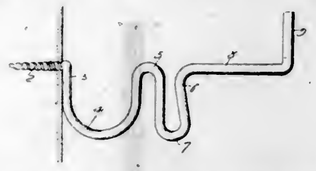
In a boiler with a crown sheet having a threaded opening therein, a hollow plug positioned within the opening, a partition in the plug and dividing the same into compartments, fusible plugs positioned in the walls of one compartment, and a fusible plug positioned in the wall of the opposed compartment, the fusible plug of the latter compartment being in closer relation with the crown sheet than the plugs of the opposite compartment, and means in communication with the respective compartments for providing communication between the compartments and the atmosphere.

1,376,482. CROWNED-ARCH CONSTRUCTION. JAY G. THOMAS, Philadelphia, Pa. Filed May 6, 1919. Serial No. 295,142. 8 Claims. (Cl. 263—46.)



1. In apparatus of the character stated furnace side walls, a sprung arch connected thereacross, end thrust plates at the arch ends, a tie bolt connecting said plates, a strut connecting member, strut pieces each pivoted at one end to said member and in abutting relation with said plates at the opposite end and means for depressing said member to expand the strut pieces laterally of the furnace.

1,376,483. CURTAIN-POLE AND SHADE-ROLLER BRACKET. ESTELLA L. THOMPSON, South Jacksonville, Fla. Filed May 12, 1919. Serial No. 296,478. 1 Claim. (Cl. 156—24.)



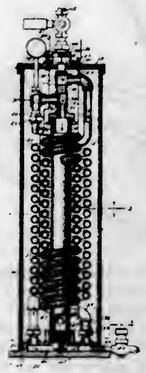
A device of the kind described, formed from a single piece of metallic rod bent to provide a shank which is externally threaded for attachment in the wood-work of a window frame, the rod being bent at right angles to the shank and formed to the shape of a U which connects with this right angularly bent portion, the rod at the end of the U being formed with a return bend and then again bent back on itself to provide a depending loop for the reception of a shade roller stud, the rod being then bent so as to aline with the shank and being terminated in an upstanding right angularly disposed portion for the reception of a curtain pole.

1,376,484. PLATE-VALVE. GROVER GOODRICH TUTTLE, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 6, 1920. Serial No. 371,715. 4 Claims. (Cl. 251—119.)



1. A plate valve comprising a valve seat having concentrically arranged passageways in the same plane, valve plates in the form of separate segmental strips adapted to be seated over said passageways, a stop plate mounted on the valve seat over the valve plates, springs for seating said valve plates, and means for guiding said valve plates.

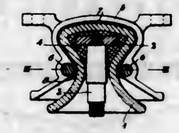
1,376,485. ELECTRIC HEATER. EDMOND VERSTRAETE, Belleville, N. J. Filed Oct. 30, 1919. Serial No. 334,504. 12 Claims. (Cl. 219—39.)



1. An electric heater including a tubular heater element in the form of a spiral coil, and an electric resistance winding about said element and having a slidable

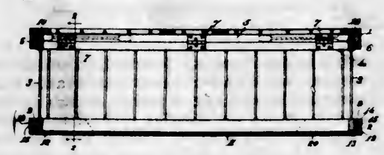
relation thereto, said resistance being flexible and adapted to be wormed from said element in removing the resistance, and adapted to conform to the convolutions of said element in being replaced in position.

1,376,486. ELECTRICAL INSULATOR. KALMAN VON KANDO, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1914. Serial No. 876,382. 6 Claims. (Cl. 173—366.)



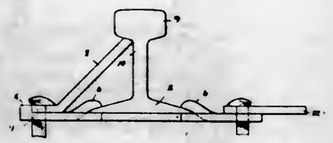
3. The combination with a bell-shaped insulator having walls of a substantially uniform thickness and a constricted waist portion, of an elliptical anchor member adapted to be inserted only longitudinally within said insulator, a bolt extending into said insulator and secured to said anchor member, a metallic casing surrounding the upper portion of said insulator and secured thereto, and readily fusible metal surrounding said anchor member and said bolt and constituting a head for said bolt of larger diameter than the waist portion of said insulator.

1,376,487. FOLDING BOX OR CRATE. ADOLPH VON SCHLUEMBACH, Altoona, Pa. Filed Apr. 18, 1919. Serial No. 291,071. 9 Claims. (Cl. 217—15.)



1. A folding box or crate comprising a top and a bottom co-extensive in length and width, sides hingedly connected to said top and having a sliding connection with the bottom, and ends hingedly connected to the top and swinging downwardly between said sides, substantially as described.

1,376,488. RAILROAD-RAIL WEARING-PLATE AND CONNECTION. ERICK G. WALLINDER, Duluth, Minn. Filed Jan. 17, 1921. Serial No. 437,779. 1 Claim. (Cl. 238—218.)



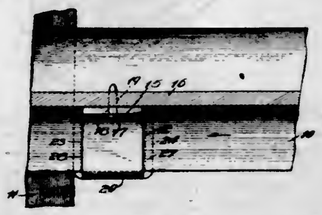
A rail joint support and connection comprising a base plate having means for engagement with the base of the rail, a transversely disposed upwardly extending rib adjacent one end of the plate and spaced from the rail holding means, a fish plate having a bulb thereupon extending upwardly approximately level with the top of the rail, a groove in the lower outer corner of the bulb, a brace plate slidably engageable intermediate of said groove and the rib on the base plate, means for holding the latter and the brace coöperatively united, and a common fish plate on the opposite side of the rail joint united with the other fish plate by common through bolts.

1,376,489. TORCH. GEORGE R. WARD, Munhall, Pa. Filed June 11, 1920. Serial No. 388,245. 3 Claims. (Cl. 67—55.)



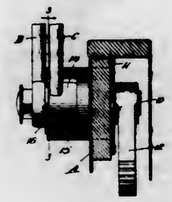
1. The combination with a torch provided with a wick spout, of a wick feeder detachably secured to the outer end of the spout, said feeder comprising a sleeve and a wick-engaging detent wheel rotatably mounted in said sleeve.

1,376,490. RAIL-ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1919. Serial No. 326,855. 9 Claims. (Cl. 238—330.)



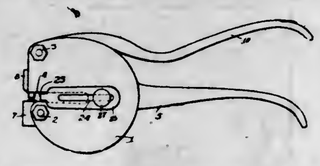
1. A one-piece sheet metal rail anchor cut and bent to provide a shoe member having a tie abutting portion and an upstanding member adapted to be secured to the vertical web of a rail, whereby lateral movement of the device, resulting from the creeping pressure of the rail, will increase its grip on the rail.

1,376,491. VEHICLE-TOP ATTACHMENT. DELTON C. WATT, Danville, and FREDERICK A. GREARSON, Barre, Vt. Filed Oct. 6, 1916, Serial No. 124,130. Renewed Jan. 28, 1921. Serial No. 441,095. 5 Claims. (Cl. 296—110.)



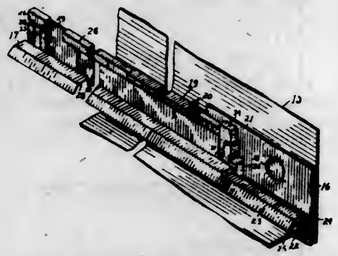
1. The combination with a plurality of folding top supporting members having independent pivotal movement, and one of which is adapted to be moved by directly applied power, of a shiftable clutch device operating during a portion of both the top elevating and top collapsing movements of the power member to connect the pivot ends of said members and effect simultaneous movement thereof.

1,376,492. PUNCH. WILLIAM A. WHITNEY, Rockford, Ill., assignor to Frank Vander Bogert and Hiram A. Merlien, Rockford, Ill. Filed Aug. 18, 1919. Serial No. 318,262. 3 Claims. (Cl. 164—120.)



1. In a device of the class described, a first handle; a second handle bifurcated to form a head and a resilient jaw located between the head and the first handle; a frame whereunto the first handle and the head are pivoted; a punch carried by the jaw and coöperating with the head; and means for connecting the jaw with the first handle.

1,376,493. STOP FOR EXTENSION-FILES. ALFRED E. WICKSTROM, Jamestown, N. Y. Filed May 7, 1920. Serial No. 379,507. 3 Claims. (Cl. 45—77.)



1. In a stop, a support, a stop member of L-shape having its upper end extending above the support and having the rear end of its lower part extending rearwardly beyond the support, and means to secure the stop member to the support, including a part folded around the vertical part of the stop member and engaged with the upper face of the lower part of the stop member to hold the latter against upward movement.

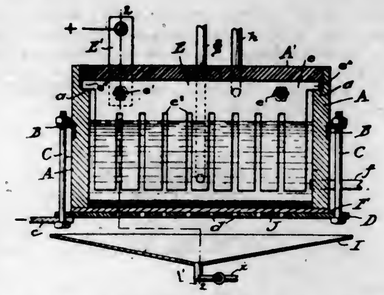
1,376,494. EXTENSION-FILE. ALFRED E. WICKSTROM, Jamestown, N. Y. Filed Sept. 15, 1920. Serial No. 410,357. 8 Claims. (Cl. 46—77.)



5. In a drawer support, outer slides having top and bottom flanges, the latter extending upwardly to form grooves, then outwardly and finally downwardly at an incline, and inner slides having top flanges engageable with the top flanges of the outer slides and having bottom flanges which conformably engage the bottom flanges of the outer slides and the inclined side of the latter and which are insertible sidewise by riding on the inclined parts and subsequently springing into the top and bottom flanges of said outer slides.

1,376,495. ELECTROLYTIC CELL. JOHN M. WILLIAMS, Guthrie, Okla. Filed Sept. 5, 1916, Serial No. 118,323. Renewed July 22, 1920. Serial No. 398,284. 6 Claims. (Cl. 204—5.)

1. An electrolytic cell embodying a substantially horizontal perforate bottom forming the cathode of the cell and side walls provided with supporting shoulders on the interior thereof, an anode positioned within the cell and embodying a plurality of slabs positioned entirely within the cell and individually supported on the shoulders of the side walls, whereby the slabs are supported to the exclusion of apertures in the side walls of the cell, in combination with an asbestos diaphragm superimposed on the cathode and intermediate said cathode and anode so that, when an electric current is passed through the cell, the catholyte is caused to pass through the asbestos diaphragm.

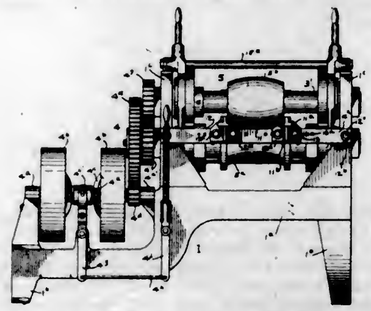


1,376,496. CANOE-TRAILER FOR MOTOR-VEHICLES. DWIGHT BRYCE WOODRUFF, Olathe, Colo. Filed June 5, 1920. Serial No. 386,800. 1 Claim. (Cl. 280—51.)



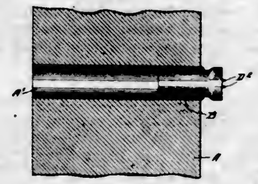
In a device of the character described, means for converting a canoe into a trailer comprising an axle, a pair of wheels carried by said axle, a pair of springs arranged upon said axle, means for securing each of said springs upon the axle including a clamp engaged with the spring and the axle and having a saddle upon which the spring is seated, means coacting with said springs for supporting the canoe, including arms secured to the springs and offset inwardly, and means for connecting the arms to the gunwale of the canoe including bolts passing through the arms and through the gunwale and winged nuts threaded upon the bolts.

1,376,497. ROLLING OR BENDING MACHINE. CARL M. YODER, Cleveland, Ohio. Filed Dec. 11, 1916. Serial No. 136,351. 12 Claims. (Cl. 153—58.)



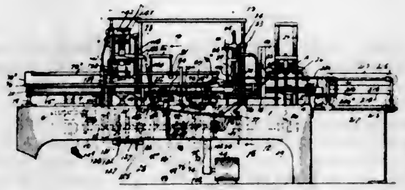
1. In a machine of the class described, the combination of a pair of rollers, a pair of shoes arranged at opposite sides of said rollers, each disposed in a plane extending tangentially to the periphery of one of said rollers and coöperable with said rollers to bend a section of metal on transverse lines, means for fixably supporting one of said shoes, and means for supporting the other shoe to swing about the axis of one of said rollers, said swingable shoe being shaped transversely substantially similar to the shape of said rollers.

1,376,498. FURNACE-EYESIGHT. EDWARD G. ZIMMERMAN, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed May 17, 1920. Serial No. 381,895. 2 Claims. (Cl. 266—41.)



1. A furnace eyesight comprising a tubular part adapted to be anchored in a furnace wall and having its outer end internally enlarged to provide an annular seat for a glass extending across the bore of the portion of said tubular part at the furnace side of said seat, and formed with a groove in the inner surface of the enlarged portion of the part to receive a split ring spring for clamping said glass against said seat.

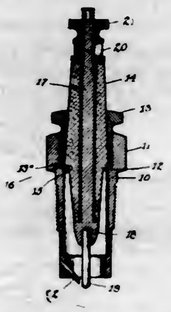
1,376,499. CARTONING-MACHINE. ERNEST D. ANDERSON, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed June 28, 1919. Serial No. 307,394. 17 Claims. (Cl. 93—3.)



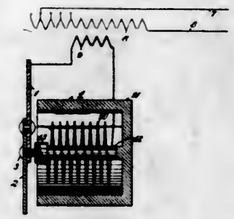
1. A machine of the class described comprising a frame, a conveyer provided with spaced receivers, means to support and operate the conveyer, a magazine for receptacles, means to deliver receptacles from the magazine, a transferring device to receive the receptacles from the magazine, and means to operate the transferring device to deliver receptacles to said receivers.

1,376,500. SPARK-PLUG. DOUGLASS L. ARNOLD, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 25, 1919. Serial No. 306,664. 4 Claims. (Cl. 123—169.)

1. A spark plug having an insulator, the upper portion of which is tapered, a nut closely fitting said taper, shoulders on the nut and insulator forming substantially a continuous surface inclined to the longitudinal axis of the plug, a hollow casing having an internal shoulder, and a gasket between said shoulder and the shoulders on the nut and insulator.



1,376,501. COMBINED RIVET-HEATER AND RIVETER. ALFRED L. ATHERTON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 11, 1920. Serial No. 409,539. 7 Claims. (Cl. 219—2.)



1. In a combined riveter and rivet heater, the combination comprising a coil connected in circuit with the rivet to be heated, and means actuated by said coil for forming a head on the rivet upon softening thereof by the flow of current through it.

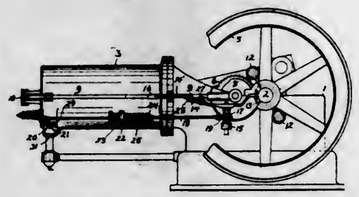
1,376,502. ADJUSTABLE AND COLLAPSIBLE DRESS-FORM. ANNA DEANE BAILEY, New York, N. Y. Filed Sept. 24, 1919. Serial No. 325,844. 20 Claims. (Cl. 223—18.)



1. An adjustable and vertically collapsible dress form comprising a casing of flexible material approximating the

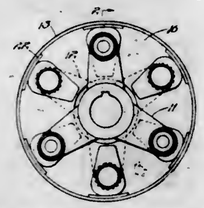
human form in conformation, and a plurality of vertically spaced circumferentially contractible casing-distending devices each of which extends circumferentially of the casing.

1,376,503. GOVERNOR FOR GAS-ENGINES. ERNEST W. BAXTER, Van Wert, Ohio. Filed Dec. 17, 1919. Serial No. 345,578. 4 Claims. (Cl. 123—99.)



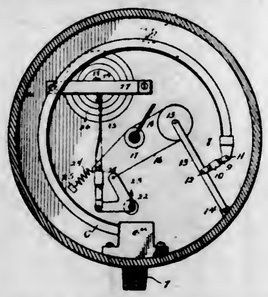
4. In a governor for gas engines having a throttle valve and exhaust valve, a governing means including mechanism for automatically regulating the action of each of said valves; and means for adjusting said mechanism for independently throwing it out of regulating relation with either of said valves.

1,376,504. UNIVERSAL JOINT. WALTER J. BEHN, Detroit, Mich. Filed Feb. 16, 1920. Serial No. 359,089. 8 Claims. (Cl. 64—96.)



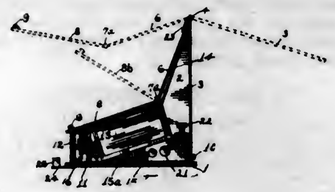
1. The disk for a flexible universal joint which includes a layer composed of substantial peripheral concentric cords embedded in frictioning material.

1,376,505. COMPENSATING GAGE. CHARLES HAROLD BERRY, Detroit, Mich. Filed May 12, 1920. Serial No. 380,880. 5 Claims. (Cl. 73—109.)



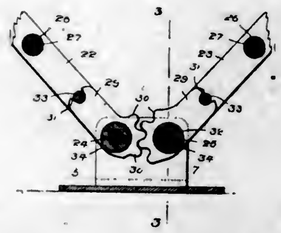
1. A gage comprising a dial, a pointer operable thereover, a pressure actuated member, a flexible element operatively connected to the pointer, connections between the pressure actuated member and the flexible element for exerting a drawing action upon the latter in accordance with movement of the pressure actuated member and means operable in accordance with variations in atmospheric pressure for causing movement of the flexible element with relation to and independently of the pressure actuated member, as and for the purposes set forth.

1,376,506. COMBINATION DISPLAY-CASE. SAMUEL BESKIN, Norfolk, Va. Filed July 19, 1920. Serial No. 397,253. 2 Claims. (Cl. 211—25.)



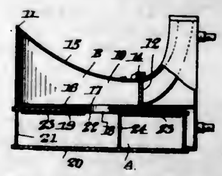
1. A case adapted to receive a cigar box for display including a back and a hinged folding transparent cover adapted to assume angles corresponding to the inclination of the cigar box and its lid, a vertical partition coverable by said folding cover, and a hollow member to support a cigar box at an angle.

1,376,507. JACK-GEAR. PERCY L. BILLINGSLEY, Orlando, Fla., assignor to Atlas Manufacturing Company, Orlando, Fla. Filed Apr. 11, 1918, Serial No. 227,933. Renewed Sept. 30, 1920. Serial No. 413,894. 6 Claims. (Cl. 254—126.)



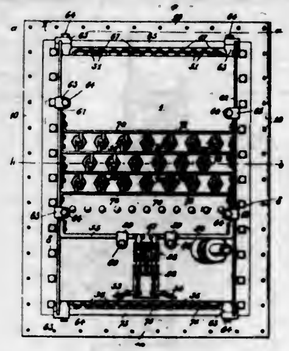
1. In a lifting jack, a base, lifting bars pivotally supported thereon and independent intermeshing means pivoted upon the bar pivot, parallel to each bar and detachably connected to the bar at a point removed from its pivot.

1,376,508. AMPLIFIER FOR SOUND-REPRODUCING MACHINES. JOHN WESLEY BOOTH, Trenton, Ontario, Canada. Filed Mar. 22, 1920. Serial No. 367,920. 1 Claim. (Cl. 181—27.)



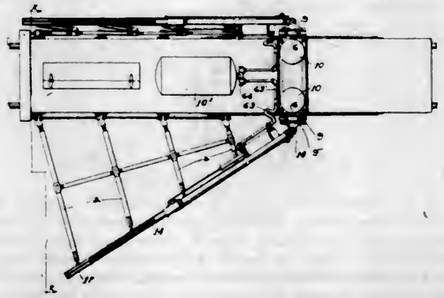
An amplifier for sound reproducing machines comprising a resonance box having a sound hole therein, an amplifying member with gradually enlarged sound passageways provided with a corresponding sound hole registering with the said sound hole, the said amplifier being connected to the resonance box at three points, namely, at the front, at the rear, and adjacent to the sound hole, an annular flange connecting the said sound holes, a sound post in the resonance box adjacent to the sound hole, and a plurality of radially extending vibrating bars in the resonance box, as and for the purpose specified.

1,376,509. STEAM GENERATOR AND SUPERHEATER. ANDREW J. BORST, Jr., Buffalo, N. Y. Filed Apr. 4, 1917. Serial No. 159,764. 18 Claims. (Cl. 219—38.)



1. An apparatus of the kind described comprising a casing divided to form a boiler and a superheating chamber, said boiler and chamber being in communication, and electrical heating means within said boiler and said superheating chamber, a portion of said electrical heating means being arranged at right angles to the path of travel of the steam through said casing.

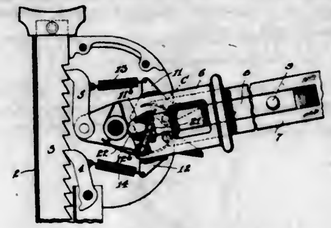
1,376,510. RAILROAD-SPREADER. ROBERT E. BRESSLER, Hammond, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Aug. 18, 1919. Serial No. 318,154. 6 Claims. (Cl. 37—58.)



1. The improvements herein described, comprising a car in combination with a spreader wing having its inner end joined to the car by a horizontal pivot, a telescopic swinging and holding brace extending between the car and the outer end of the wing, means for actuating said telescopic brace to swing the wing on its horizontal pivot, and means for locking said telescopic brace in any placed position, said means including a latch carried by one member of the telescopic brace and having a projection adapted to enter openings in the other telescopic brace member, and spring means for holding the latch in locked poistion.

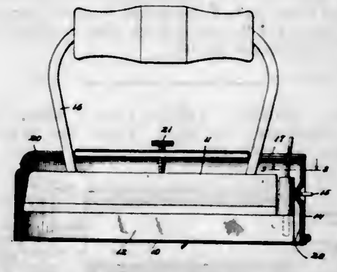
1,376,511. LIFTING-JACK. GEORGE J. CAMPBELL, Poughkeepsie, N. Y., assignor to Lane Brothers Company, Poughkeepsie, N. Y., a Joint-Stock Association of New York. Filed Dec. 7, 1920. Serial No. 428,911. 5 Claims. (Cl. 254—111.)

1. A lifting jack comprising a standard, a lifting bar movably guided thereby, mechanism for moving the bar upward and downward, said mechanism including a rocking member having a socket, a hand lever having an end detachably held in said socket to have relative movement therein while so held, means controlled by said relative movement of the hand lever to determine whether said



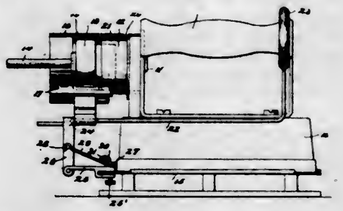
mechanism shall raise or lower the lifting bar, and frictional restraining means interposed between the handle bar and the socket.

1,376,512. ATTACHMENT FOR SMOOTHING-IRONS. RONALD ELISON CAMPBELL, Columbia, S. C., assignor to Charles C. Wilson, Columbia, S. C. Filed Mar. 25, 1920. Serial No. 368,577. 8 Claims. (Cl. 219—23.)



1. In a device of the class described, a casing openable to receive the body portion of a smoothing iron, the handle thereof extending without the casing and said casing being closable, to inclose the iron, for the purpose set forth.

1,376,513. SAFETY ATTACHMENT FOR ELECTRIC IRONS. RONALD ELISON CAMPBELL, Columbia, S. C., assignor to Charles C. Wilson, Columbia, S. C. Filed Sept. 8, 1920. Serial No. 408,917. 10 Claims. (Cl. 219—25.)



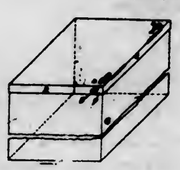
1. The combination with an electrically heated device having a separable electric connection adjacent the same, of means for closing said connection when the handle is gripped and opening the same when the handle is released, said means including a member movable longitudinally of the handle by the hand of the operator.

1,376,514. CONVERSION OF CARBON MONOXID INTO CARBON DIOXID. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 7, 1920. Serial No. 357,030. 5 Claims. (Cl. 23—10.)

1. The process of converting carbon monoxid which is mixed with hydrogen and carbon dioxid,—into carbon

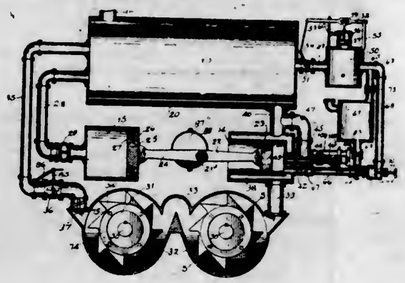
dioxid, which comprises effecting preferential combustion of said carbon monoxid into carbon dioxid through the intermediacy of a selective catalyst which includes a cyanogen compound of copper.

1,376,515. APPARATUS FOR OPENING AIR-TIGHT TINS. FREDERICK F. COAKER, Shaftesbury, England. Filed July 7, 1920. Serial No. 394,599. 3 Claims. (Cl. 220—48.)



1. In combination, a rectangular airtight closed tin, a slip-on cover fitting on the top of said tin, a hinged side piece on said cover and a pair of cutters on said cover capable of being pressed downward to pierce through the airtight lid of the tin and slit the same when the slip-on cover is drawn across the lid.

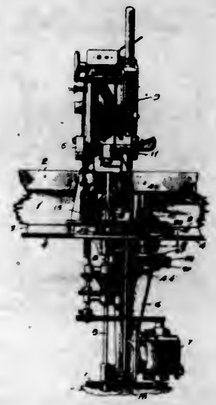
1,376,516. ENGINE. ARTHUR JOSEPH CULP, Clanton, Ala. Filed July 24, 1918. Serial No. 246,518. 3 Claims. (Cl. 123—119.)



1. A mechanism of the character described including an explosive engine having a cylinder provided with an inlet pipe, an air compressor driven by the explosive engine, a storage tank into which the air compressor discharges, a pressure regulating tank into which the storage tank discharges, a pressure controlled valve controlling the admission of air from the storage tank to the pressure regulating tank, a pipe connecting the pressure regulating tank to the inlet pipe, a spring retracted valve normally preventing the passage of air under pressure into the inlet pipe, a fuel tank operatively connected to the pressure regulating tank, to receive air therefrom, and connected to the inlet pipe between the said spring retracted valve in the inlet pipe and the cylinder and provided with a feed regulating valve, and an intermittently operated admission valve mounted in the inlet pipe adjacent the cylinder.

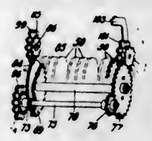
1,376,517. INTERMITTENT-MOVEMENT MECHANISM FOR MATTRESS-SEWING MACHINES. JOSEPH W. DROLL, Oakland, Calif. Filed Aug. 25, 1919. Serial No. 320,038. 6 Claims. (Cl. 112—3.)

1. The combination with a mattress supporting table having a mattress roll forming and stitching machine slidably mounted upon one side thereof, of racks mounted upon said table; a shaft rotatably mounted upon the machine; pinions mounted upon the shaft and engaging the rack on the table; means operatively connected with the roll forming mechanism of the machine and arranged to partially rotate the shaft and pinions thereon to move said machine on the table a predetermined distance at regular intervals and while the roll forming mechanism



is temporarily inactive; and means for automatically engaging the shaft at the completion of each partial rotation thereof to prevent further movement of said shaft and the machine relatively to the table.

1,376,518. COMPUTING-MACHINE. JULIUS DUCKSTINE, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1916. Serial No. 118,676. 13 Claims. (Cl. 235—59.)

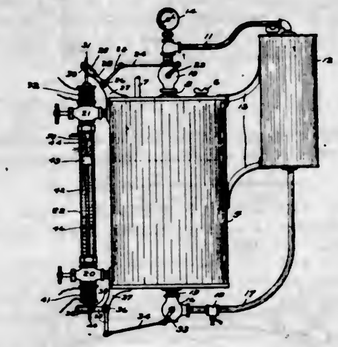


3. A totalizer comprising, in combination, a series of wheels representing different denominational orders, and tens-carrying mechanism therefor, including a gear wheel adjacent the wheel of lowest denominational order, and back gearing including a Geneva-locking device for effecting a carry through said gear from the wheel of highest denominational order to the wheel of lowest denominational order.

1,376,519. ELECTRICALLY-OPERATED FLOAT-GOVERNED LIQUID CONTROL. JAMES ALLEN DU LANEY, Seattle, Wash., assignor of one-half to Charles R. Nelson, Seattle, Wash. Filed May 1, 1919. Serial No. 294,128. 2 Claims. (Cl. 137—101.)

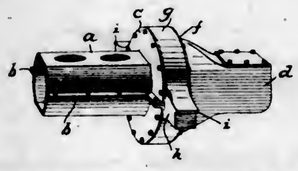
1. Apparatus of the class described comprising a boiler, means for admitting water to said boiler, valves controlling the supply of water to said boiler, electrical devices for opening and closing said valves, a water gage communicating with the upper and lower portions of said boiler to register the level of the water therein, a bar movable axially within said water gage, means for limiting the movement of said bar, a float movable within said water gage independently of said bar, means on said bar for engaging with said float near the upper and lower limits of the movement of said float whereby said float may move said bar and switch mechanism disposed within said water gage and arranged to be operated by movement of said bar to control the flow of electrical current to said electrical valve operating devices.

2. A device of the class described comprising a boiler, a water supply tank located above said boiler, conduits connecting the upper and lower portions of said boiler with the upper and lower portions of said water supply tank respectively, valves in said conduits, a liquid gage communicating with the upper and lower portions of said boiler, a float movable within said liquid gage, a tubular guide member for said float, said guide member being arranged axially of said gage and having slots extending



longitudinally thereof, a bar slidable within said guide member and projecting from the upper end thereof, pins on said bar, said pins projecting outwardly through the slots in said guide member whereby they may be engaged by said float, electrical devices for opening and closing said valves and switch mechanism disposed within said water gage and arranged to be operated by vertical movement of said bar to control the flow of electrical current to said electrical devices.

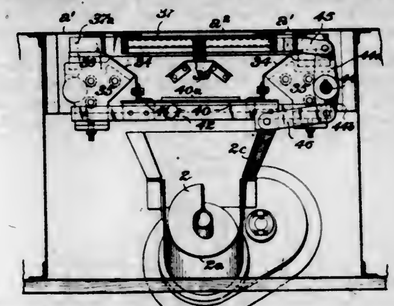
1,376,520. ENGINE-SUPPORT. ELEUTHERE PAUL DU PONT, Montchanin, Del. Filed Mar. 10, 1920. Serial No. 364,631. 4 Claims. (Cl. 180—64.)



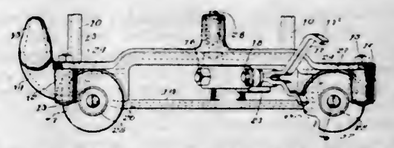
1. An engine support for automobiles comprising a hollow truss structure, said truss having a compression member and a tension member adapted to receive the fly wheel of the engine between them, side flanges connecting the compression and tension members to each other, there being an opening through both of the side members, a seat on each end of the truss structure for engaging the sills of an automobile frame, crank case supporting means on the truss surrounding the opening on one side of the truss structure, and similar supporting means on the other side member surrounding the other opening for supporting the transmission case.

1,376,521. FUEL-FEEDING MECHANISM. ALBERT G. ELVIN, Plandome, ADAM B. FAHNESTOCK, Great Neck, and FRANK H. CLARK, New York, N. Y., assignors, by direct and mesne assignments, to Elvin Mechanical Stoker Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 28, 1918. Serial No. 268,635. 5 Claims. (Cl. 83—44.)

1. In an apparatus for transferring disintegrated material from a supply receptacle to a delivery location, the combination of a feed casing, having a supply and a delivery passage at its top and bottom, respectively; a grated agitator and a drop plate, controlling, respectively, the supply and the delivery passages of the casing; a stationary deflector plate, having inclined sides interposed between the agitator and the drop plate; means for coincidentally reciprocating the agitator and drop plate, in opposite directions, respectively, and means for varying the extent of movements of the agitator and drop plate.



1,376,522. CHECK-WIRE GUIDE FOR HILL DROP-PLANTERS. RALPH L. FORD, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Nov. 19, 1917. Serial No. 202,780. 2 Claims. (Cl. 111—48.)

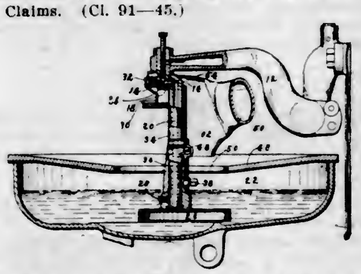


1. In a check-row planter, check-wire mechanism comprising a fixed and a tiltable section, a tiltable check-wire fork movable with said tiltable section and having the end of its inner arm extended toward its outer arm and means on the tiltable section for engaging a check-wire in coöperation with said fork and adapted to return them from tilted position by a side thrust from the wire.

1,376,523. PLASTIC COMPOSITION AND METHOD OF PRODUCING THE SAME. GEORGE M. FORMBY, Jacksonville, Fla., assignor to Formby Petrinite Corporation, Jacksonville, Fla., a Corporation of Delaware. Filed May 11, 1920. Serial No. 380,586. 4 Claims. (Cl. 106—34.)

1. The process of producing a plastic composition which consists in adding water and lime to calcium oxychlorid; boiling the mixture thus produced and letting it set; and mixing Keene's cement with said mixture, substantially as described.

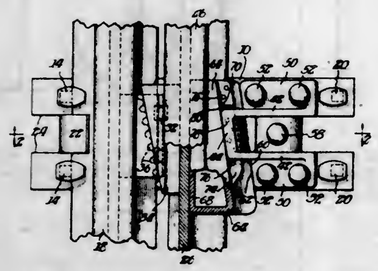
1,376,524. FLUID-APPLYING MACHINE. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 20, 1919. Serial No. 318,729. 28 Claims. (Cl. 91—45.)



1. In a machine of the class described, spray-delivering means spaced from the work surface to be sprayed, and

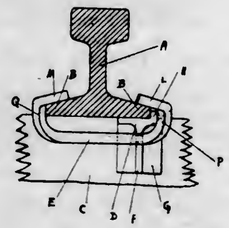
means movable in right lines toward and from the spray-delivering means and arranged to vary the position of the work transversely to the direction of spray delivery.

1,376,525. ADJUSTABLE-GUARD-RAIL BRACE-PLATE. BENEDICT T. GIBBS, Jr., Chicago, Ill., assignor to Morden Frog & Crossing Works, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1920. Serial No. 363,486. 1 Claim. (Cl. 238—20.)



In mechanism of the class described, a plate adapted to extend under the rails, a bearing block forming a portion of the clamping mechanism rising from the plate, the same comprising a flanged base lying on the plate and an upper portion rising therefrom, means securing the flange portion to the base plate, and a member turned up from the plate beyond the bearing block, and riveted to the bearing block to prevent movement of the bearing block longitudinally of the plate.

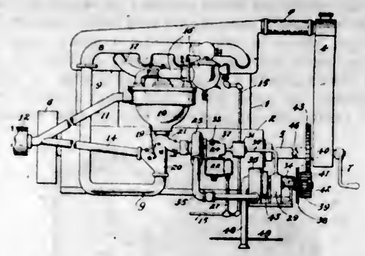
1,376,526. RAIL-ANCHOR. HORATIO G. GILLMOR, Washington, D. C. Filed Jan. 9, 1918, Serial No. 211,011. Renewed Oct. 15, 1920. Serial No. 417,280. 22 Claims. (Cl. 238—329.)



1. An anticreeper, comprising a rail base engaging shoe and a transverse bar held in engagement with and pressed up against said shoe by the vertical resultant of torsional stresses.
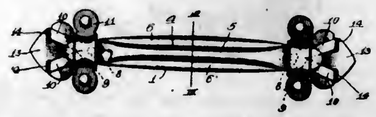
1,376,527. COMBUSTION-ENGINE. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Continuation of application Serial No. 822,813, filed Mar. 6, 1914. This application filed May 20, 1916, Serial No. 98,734. Renewed July 22, 1920. Serial No. 398,286. 14 Claims. (Cl. 123—122.)

1. The combination in an automobile type internal combustion engine, of a carbureter, a liquid fuel burner containing a spark plug and air and fuel admission means arranged to establish and maintain a continuous flame, and a starting agency for rotating the engine, said parts being severally adapted and mutually organised to automatically



supply heated charge mixture to the engine cylinders by the sole effect of the operation of said starting agency.

1,376,528. DETACHABLE HANDLE. COLIN GRANT, Jackson, Mich. Filed Aug. 18, 1919. Serial No. 318,375. 6 Claims. (Cl. 190—57.)



1. The combination with a receptacle having suspension members or straps, of a handle having bifurcated tabs extending through said suspension members or straps, and detachable means engaging in said handle tabs to hold the bifurcated portions of said tabs separated to prevent the tabs slipping back through said suspension members or straps.

1,376,529. REPAIR-HANDLE. COLIN GRANT, Jackson, Mich. Filed Aug. 18, 1919. Serial No. 318,376. 3 Claims. (Cl. 190—58.)



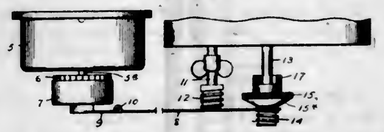
1. A handle having a terminal adapted for engagement with a piece of luggage, a catch member to effect such handle engagement, and means slidable on said handle and having a snap action over said catch member and adapted to hold said catch member against accidental release.

1,376,530. CARTRIDGE FOR SMALL-ARMS, MACHINE-GUNS, AND THE LIKE. HARRY GREENER, Birmingham, England. Filed Sept. 13, 1918. Serial No. 253,975. 5 Claims. (Cl. 102—12.)



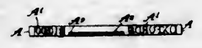
1. A cartridge comprising a case, a plurality of bullets carried thereby and arranged in axial alinement, and a propelling charge disposed in the case solely and entirely in the rear of the innermost bullet, gas spaces being provided between the successive bullets adapted to communicate with one another to effect the initial separation and independent departure of the several bullets by the gas pressure developed solely by the ignition of the propelling charge.

1,376,531. TIMED OR INTERMITTENT-OPERATING DEVICE. ALEXANDER S. GREENWOOD, Chicago, Ill. Filed July 12, 1920. Serial No. 395,694. 9 Claims. (Cl. 161—1.)



8. A control device comprising a swinging arm and a plurality of threaded rotatable stops therefor, said arm co-operating with the threads of said stops whereby the rotation of said stops will successively disengage the arm from the respective stops.

1,376,532. PRINTING-FORM AND THE ART AND MEANS FOR PRODUCING SAME. CHAUNCEY H. GRIFFITH, New York, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 26, 1920. Serial No. 406,046. 14 Claims. (Cl. 101—396.)



1. A type member cast with a printing character of less than full type height.

1,376,533. PRIMING-CUP. WILLIAM GRIKSCHEIT, Detroit, Mich. Substitute for application Serial No. 177,684, filed June 29, 1917. This application filed Apr. 16, 1919. Serial No. 290,489. 9 Claims. (Cl. 123—187.5.)



1. A priming cup, comprising a casing having a longitudinal bore therethrough, a cup communicating with said bore and a threaded stem engaging corresponding threads in said bore and seated to cut off communication with said cup, a sheet metal cap apertured to engage said stem and having a rounded depressed portion for engaging the mouth of the cup, and a spring sleeved upon said stem bearing against said cap and yieldably holding the same from disengagement from said cup.

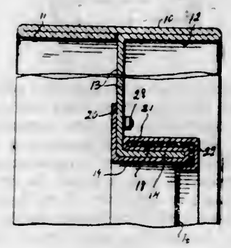
1,376,534. VALVE-FITTING. WILLIAM GRIKSCHEIT, Detroit, Mich. Filed Jan. 2, 1920. Serial No. 348,879. 4 Claims. (Cl. 251—22.)

8. A valve fitting comprising a casing of angling form and having passages in the angling portions thereof intersecting each other, an opening in said casing opposite one of said angling passages and being of greater diameter than said passage, a cap for closing said opening, a hollow stem passing through said cap provided with a lateral port for communicating with said passages, a valve at the inner end of said stem of greater diameter than the passage opposite said opening and said hollow stem, and seats respectively in said casing and cap with which said valve



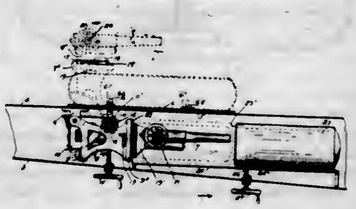
may be alternatively engaged to cut off connection between said angling passages and said lateral port, said valve clamped in an intermediate position opening drainage communication from said passages through said port and hollow stem.

1,376,535. DOOR CONSTRUCTION. WILLIAM GROSS, Sauk Rapids, Minn. Filed May 12, 1920. Serial No. 380,836. 2 Claims. (Cl. 189—53.)



1. A door structure comprising a frame having a central panel opening, the edges of said opening being extended at right angles to provide a support, a closure member engaged with said support, and a closure frame adapted to embrace said support, said closure member being L-shaped in cross section, and means carried by the door structure inwardly of the edges thereof and adapted to engage the outer surface of said closure member.

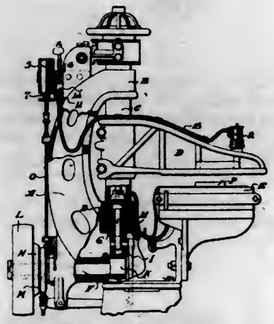
1,376,536. DISAPPEARING GUN FOR SUBMARINES. THOMAS MCCHEYNE GUNN, New York, N. Y., assignor to Electric Boat Company, a Corporation of New Jersey. Filed Sept. 12, 1916. Serial No. 119,640. 14 Claims. (Cl. 89—38.)



1. In a submarine boat, a superstructure having an opening in the top thereof, a gun standard movably mounted in the superstructure beneath the opening, said gun standard comprising a platform on which said gun is mounted for rotation in a horizontal plane when said gun standard is elevated, means for adjusting said gun stand-

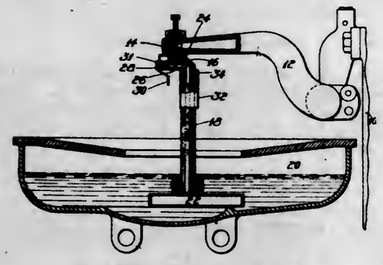
ard and said gun into and out of said opening, and a cover for said gun adjustable into and out of engagement with said platform to form therewith a water-tight covering for the gun.

1,376,537. CUTTING-MACHINE. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 19, 1917. Serial No. 207,869. 9 Claims. (Cl. 164—19.)



1. In a clicking machine, a cutting bed, a pressure member mounted for oscillation from and into position over the bed, a handle fixed to the pressure member to be grasped in oscillating said member, a power means for giving the pressure member reciprocatory movements toward and from the bed, a device in an electrical circuit for controlling the operation of the power means, and a switch mounted inside the handle on the oscillatable pressure member for opening and closing the circuit.

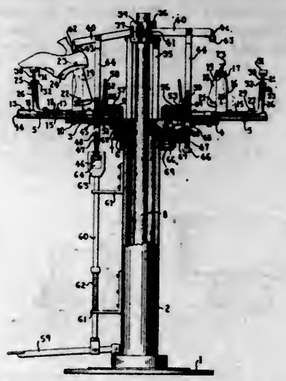
1,376,538. FLUID-APPLYING MACHINE. AMOS S. HAYDEN, Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 11, 1919. Serial No. 316,819. 20 Claims. (Cl. 91—45.)



1. In a machine of the class described, spray-delivering means spaced from the surface against which the spray is directed, and means arranged to vary the position of the work transversely to the direction of spray delivery.

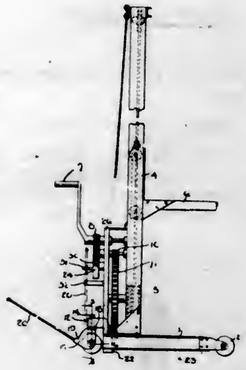
1,376,539. MACHINE FOR AFFIXING HEELS TO SHOES. ISABELLE HENNE and JOHN L. PEBO, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,269. 17 Claims. (Cl. 12—125.)

1. A heel-affixing machine of the character described comprising a rotatable table, a circular series of shoe-supporting and heel-pressing devices thereon, means for applying powerful pressure to the devices, and clutches



adapted to hold the devices at any degree of pressure while carried by the table from the point of pressure application to a point of release.

1,376,540. PORTABLE ELEVATOR. ETHAN N. HESCOCK, Westfield, N. J., and ERNEST F. SMITH, Woodhaven, N. Y., assignors to New Jersey Foundry & Machine Company, a Corporation of New Jersey. Filed Feb. 16, 1920. Serial No. 358,869. 12 Claims. (Cl. 187—11.)

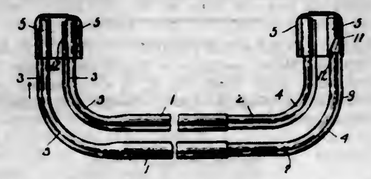


1. In a movable elevator, the combination of stabilizing means fast on the elevator, hoisting mechanism and a single control to alternately render the stabilizing and hoisting mechanism operative.

1,376,541. CURTAIN-FIXTURE. SIDNEY C. HILLS, Torrington, Conn., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Jan. 24, 1920. Serial No. 353,681. 4 Claims. (Cl. 156—19.)

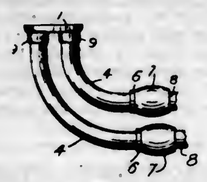
3. In a curtain fixture, two reversible brackets, each having two symmetrically located vertically elongated horizontally projecting juxtaposed sockets connected together and adapted to be secured to a window casing, and two parallel rods having body portions and vertically elongated ends at right angles to said body portions fitting within said sockets, said rods lying in the same horizontal plane, the sockets of each bracket having openings and yielding

wings on their adjacent sides, said wings engaging said rods having external beads and the sockets of each bracket having in their outer walls recesses adapted to receive



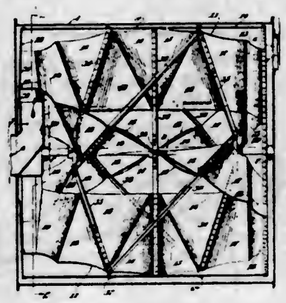
the bead upon the outer rod, the openings in the other walls of said sockets being adapted to admit the bead on the inner rod.

1,376,542. BRACKET FOR CURTAIN-FIXTURES. SIDNEY C. HILLS, Torrington, Conn., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Jan. 31, 1920. Serial No. 353,359. 2 Claims. (Cl. 156—22.)



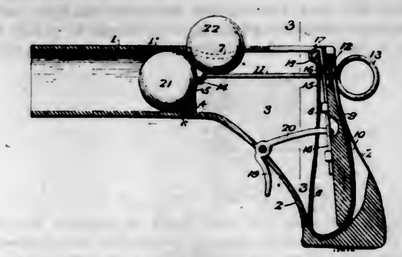
2. In a bracket for a curtain fixture, a perforated base-plate, a tubular goose-neck connected thereto, a collor fitting one end of said goose-neck and rigidly secured thereto so as to form a shoulder adjacent to the base-plate and engaging the face thereof and having end portions engaging the rear of said base-plate, and an exteriorly screw-threaded ferrule upon the outer end of said goose-neck adapted to receive a rod-holding sleeve, said goose-neck having a seam along its inner surface and said collar and ferrule fitting opposite ends of said goose-neck and rigidly secured thereto and acting to hold the edges of said seam together.

1,376,543. GAS-METER. CHARLES W. HINMAN, Winchester, Mass. Filed Jan. 24, 1920. Serial No. 353,803. 8 Claims. (Cl. 73—1.)



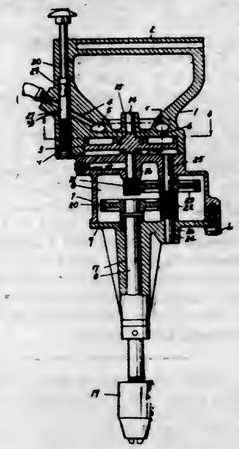
1. In a gas meter the combination with a stationary casing, of a drum mounted to revolve therein comprising a cylindrical shell having internal division walls, each wall comprising a plurality of surfaces of alternately inverted cones united along a common element of intersection to produce stiffening ridges inclined alternately in opposite directions, and means for rotatably supporting the drum in the casing.

1,376,544. TOY PISTOL. JOHN H. HOOD, Philadelphia, Pa. Filed Mar. 1, 1920. Serial No. 362,485. 10 Claims. (Cl. 124—12.)



1. A toy pistol provided with ejecting means positioned to eject a projectile at an angle to the length of the barrel.

1,376,545. PNEUMATIC DRILL. CORWILL JACKSON, Kalamazoo, Mich. Filed June 11, 1919. Serial No. 303,352. 7 Claims. (Cl. 253—3.)

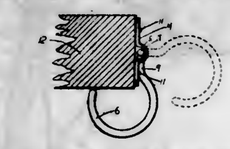


1. The combination of a frame or body comprising a top body member provided with a handle and having a cylinder in its under side and inlet and exhaust passages, said inlet passage being provided with an annular delivery portion above the cylinder communicating with said cylinder through a plurality of ports, an intermediate body member constituting a gear box, a bottom member provided with a spindle bearing, said top and intermediate members having alined rotor shaft bearings alined with said spindle bearing and said intermediate and bottom body members having alined transmission shaft bearings disposed at one side of said rotor shaft and spindle bearings, a valve for said inlet passage provided with a stem projecting above said handle, an upwardly facing fluid impact rotor disposed in said cylinder, a shaft therefor disposed in said rotor shaft bearings and projecting into said gear box, a spindle disposed in said spindle shaft bearing, a transmission shaft disposed in said transmission shaft bearings, and a train of spindle driving gears on said rotor and transmission shafts and spindle.

1,376,546. TAG-HOOK. LOUIS C. JEEP, Sioux City, Iowa. Filed Feb. 16, 1920. Serial No. 358,904. 1 Claim. (Cl. 248—24.)

A swinging-hook, including a single length of wire folded upon itself, the folded end portion thereof being formed in a hook, and the free end portions thereof being bent longitudinally in opposite directions, and a support therefor, including a sheet-metal plate adapted to be

mounted on the front of a shelf, the side of the plate adjacent the shelf having an intermediate horizontal concave recess, between which and the shelf the free end portions of the hook are inclosed, the plate having a notch in its lower edge extending into the recess to permit the hook to oscillate and normally rest in the notch against

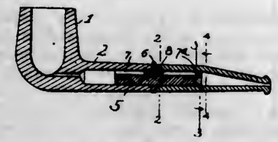


the shelf, the plate and hook being so disposed that the free end of the hook extends rearwardly and normally engages the under side of the shelf a distance from the front edge thereof, to prevent accidental displacement of articles from the hook and protrude from the front of the shelf a minimum distance.

1,376,547. TOP OF CYCLE AND SIMILAR SADDLES. JAMES JELLEY, Coventry, and HENRY JELLEY, Birmingham, England. Filed July 6, 1918. Serial No. 243,723. 7 Claims. (Cl. 154—46.)

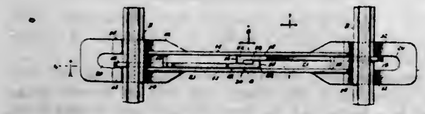
1. In a composite rubber and fabric top for cycle and like saddles the combination of an upper layer composed of a mixture of raw rubber and vulcanizing compound which when subjected to heat and pressure incidental to vulcanization will afford a yielding and flexible waterproof seating surface having a polished and well finished appearance and not tending to crack or deteriorate under heat or moisture, an under layer composed of a mixture of raw rubber and vulcanizing compound which upon being subjected to heat and pressure incidental to vulcanization will yield a relatively hard but flexible surface affording a comfortable seat and a support to the upper layer to preserve its shape, and a layer of textile fabric embedded in and intervening the said upper and under layers and acting in conjunction with the under layer to support the upper layer and resist any tendency of the latter to stretching and sagging.

1,376,548. PIPE. BENJAMIN F. JOHNSON, Cleveland, Ohio. Filed Sept. 22, 1919. Serial No. 325,349. 1 Claim. (Cl. 131—12.)



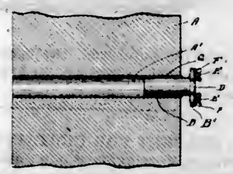
A pipe having a bowl with a short hollow stem, a mouth stem of hollow construction, a joining member coöperating with both of said stems, said member having an open groove in the upper portion thereof, one end of said groove being closed and a downwardly directed opening coöperating with the groove at the closed end.

1,376,549. RAILWAY-TIE. HARRY JONES, Suffern, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed June 11, 1920. Serial No. 388,118. 12 Claims. (Cl. 238—30.)



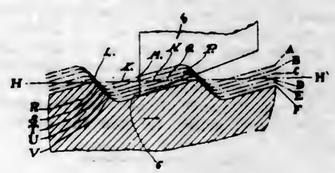
1. A railway tie comprising a body portion, abutments carried adjacent the ends thereof adapted to receive rails therebetween, and rods extending longitudinally of the body portion of said tie adapted to engage the external flanges of the rails and lock the same between said abutments and internally reinforce said body portion.

1,376,550. FURNACE-EYESIGHT. COTT C. KELLEY, Worcester, Mass., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed May 6, 1920. Serial No. 379,312. 3 Claims. (Cl. 266—41.)



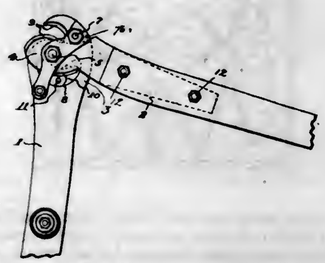
2. A furnace eyesight comprising a tubular part adapted to be anchored in a furnace wall and provided at its outer end with an outwardly extending flange or head, a glass extending across the passageway through said part and seating against said head at the margin of the passageway, a clamping plate for releasably holding the glass in place, and means for detachably securing said clamping plate to said head comprising clamping screws extending parallel to the axis of said passage, but laterally displaced therefrom.

1,376,551. METHOD OF MAKING CUTTERS. CUTLER D. KNOWLTON, Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 22, 1919. Serial No. 284,277. 24 Claims. (Cl. 76—101.)



1. The method of making cutters which comprises cutting out portions of a blank to form backed off portions and then forming teeth on the blank including the backed off portions of the blank.

1,376,552. CUTTER. JOHN HOWARD KRESS, Louisville, Ky. Filed Sept. 26, 1919. Serial No. 326,424. 1 Claim. (Cl. 81—198.)

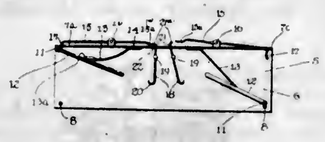


A cutter comprising a pair of members pivoted together, handles extending therefrom, one of said members being provided with a relatively wide head having an opening and also having an arcuate shaped inwardly curved jaw extending therefrom, a concaved cutting edge for said jaw, a relatively narrow jaw extending from the other member, oppositely disposed convexed cutting edges provided upon the narrow jaw, one of said convexed edges coöperating with the cutting edge of the wide jaw and the other cutting edge coöperating with the walls of the opening formed in the last mentioned jaw.

1,376,553. IMPREGNATED MATERIAL. WINTWORTH V. LANDER, Newton, Mass., assignor to General Indurating Corporation, New York, N. Y., a Corporation of New York. Filed July 31, 1918. Serial No. 247,664. 22 Claims. (Cl. 91—68.)

18. An article of manufacture comprising porous material impregnated with a non-paraffinic composition comprising crude petrolatum.

1,376,554. ANIMAL-TRAP. WILLAIM FREDERICK LANGE, Runge, Tex. Filed Sept. 7, 1920. Serial No. 408,712. 1 Claim. (Cl. 43—81.)



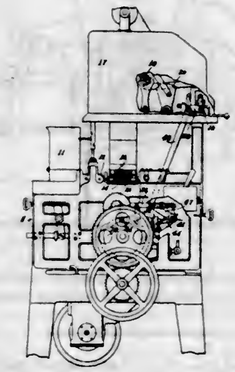
A trap of the character described comprising a casing having vertical side walls and a top wall and open at its ends and trap mechanism arranged at each of the open ends of the casing, each of said trap mechanisms including a cross bar arranged adjacent the open end and having its ends secured, a bail having its ends journaled in the side walls of the casing and having radial arms integral with said ends and a cross bar integral with said radial arms and adapted to coact with said first-mentioned cross bar, a blade spring having one end secured to the under side of the top wall of the casing and having its free end of concavo-convex form and slidably engaged with one of the radial arms of the bail to throw the bail forcibly toward said first-mentioned cross bar, said top wall of said casing having an elongated notch adjacent the open end, a trip rod pivoted on the upper side of said top wall and having a detent at its outer end extending downwardly through said notch and engageable with a cross bar of the bail, a rock shaft journaled in the side walls of the casing in rear of the bail, a bait hook fixed to said rock shaft, said casing having an opening therein disposed above said rock shaft, a release arm fixed to said rock shaft and extending upwardly through said opening and engageable with the trip rod, all as and for the purposes set forth.

1,376,555. TOTAL-TAKING MEANS FOR ACCOUNTING-MACHINES. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 28, 1916. Serial No. 80,793. 15 Claims. (Cl. 235—58.)

1. In an accounting machine the combination of an accumulating apparatus; total-taking mechanism adapted when held set to adapt said apparatus for taking totals; card operated means for automatically setting said mechanism and anchoring means for holding said mechanism and adapted for releasing the latter after said apparatus has taken the total.

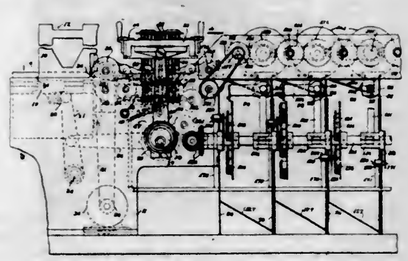
4. In an accounting machine the combination of an accumulating apparatus normally operative for accumulating; total-taking mechanism adapted when held set to adapt said apparatus for taking totals and to be inoperative for accumulating; setting means operatively connected to the total-taking mechanism and adapted when shifted to set the latter; anchoring means for holding said setting means shifted; and a unitary means for shifting the setting means and releasing the anchoring means.

6. In an accounting machine the combination of an accumulating apparatus normally operative for accumulating; total-taking mechanism adapted when held set to adapt said apparatus for taking totals and to be inoperative for accumulating; setting means operatively connected



to the total-taking mechanism and adapted when shifted to set the latter; a rotary driving means for shifting the setting means; and anchoring means for holding said setting means shifted, and operated by said rotary means for releasing the shiftable means.

1,376,556. ELECTRICALLY-CONTROLLED SORTING-MACHINE. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed June 10, 1919. Serial No. 303,155. 4 Claims. (Cl. 83—92.)

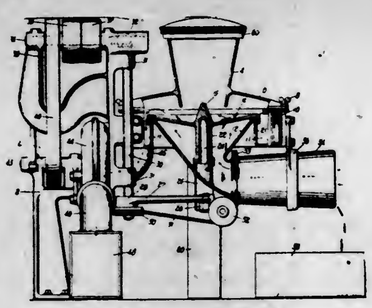


1. In an apparatus of the character described, sorting stations; an analyzer; a deflector for each station; a sleeve for each station; a core in each sleeve; a plunger fixed to each core and to bring about the actuation of said deflectors; and a solenoid on each sleeve and electrically connected to the analyzer.

1,376,557. SHOE-NAIL-RECLAIMING MACHINE. ROBERT H. LAWSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 7, 1918. Serial No. 215,769. 31 Claims. (Cl. 83—54.)

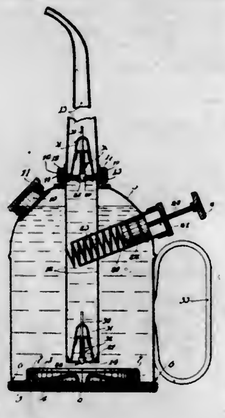
1. A machine of the class described having a separating member for receiving shoe nails commingled with trash, dirt, or other foreign matter and having openings of relatively great length to permit the nails to pass readily therethrough when alined with the openings and of relatively small width so as to arrest the passage of large

pieces of material therethrough and separate them from the nails, said member being provided with inclined sur-



faces converging downwardly toward said openings for directing the nails toward and alining them with said openings.

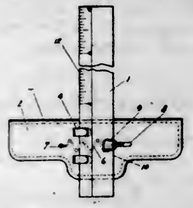
1,376,558. OIL-CAN. HANS LIEN, Brockton, Mont. Filed Apr. 28, 1919. Serial No. 293,133. 1 Claim. (Cl. 221—51.)



An oil can having a discharge spout, a cylindrical pump chamber suspended within the oil can from the top thereof, and having an intermediate lateral pump cylinder extending through the oil can, a piston mounted in the pump cylinder and having an operating stem, a spring compressed between the wall of the pump chamber and the piston, two ports in opposite ends of the pump chamber leading, the one from the oil can to said chamber and the other from said chamber to the discharge spout, a check valve normally closing the lower port and arranged to open under the suction stroke of the piston, and a check valve normally closing the upper port and arranged to open under the compression stroke of the piston.

1,376,559. RULER T-SQUARE. SAMUEL C. MCKEOWN, East Orange, N. J. Filed June 24, 1919. Serial No. 306,402. 2 Claims. (Cl. 33—103.)

1. In a device of the class described, a ruler or straight edge, a cross-piece having a straight side, a flat top portion and a recessed bottom, a plurality of lugs punched upwardly from said flat top portion in a line substantially at right angles to said straight side, a slot in the flat portion in front of and between said lugs; a clip carried in said slot and a resilient member positioned within the recessed bottom and having one end fastened to the cross-piece and the other to said clip whereby said clip is au-



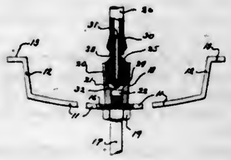
tomatically drawn toward said lugs to hold the ruler or straight edge substantially at right angles to said straight side as described.

1,376,560. LOCKING-CAP FOR AUTOMOBILE-RADIATORS. EDWARD A. MACK, Salt Lake City, Utah. Filed Aug. 3, 1920. Serial No. 401,064. 3 Claims. (Cl. 70—90.)



1. In a locking cap for automobile radiators, the combination of a threaded cap with an engaging threaded radiator neck having a circular cylindrical wall, a lateral face more or less plane and more or less perpendicular to the generating elements of the said wall, an indentation in the said lateral face, the said indentation extending from the inside surface to the outside surface of the said wall; a bored portion, having an axis, disposed in the said cap in such a manner that the said bored portion shall register with the said indentation in a certain angular position of the said cap relatively to the said radiator neck, while the said axis shall lie approximately in the plane of the said lateral face; a tumbler rotatably disposed in the said bored portion, and adapted to have a locked position and an unlocked position, the said tumbler having an axially halved portion, the said halved portion being adapted to lie without the said indentation and just above the said lateral face, in the unlocked position of the said tumbler; and further adapted to lie closely within the confines of the said indentation when the said tumbler is in the locked position; and means for locking the said tumbler.

1,376,561. AGITATING DEVICE. WALTER J. MAY, Mount Vernon, N. Y. Filed Mar. 28, 1919. Serial No. 285,862. 2 Claims. (Cl. 261—121.)



1. In a device of the character described, the combination with a freezing can, of a pipe depending thereinto, a compressed air conduit, a branch leading from the latter, a resilient plug element forming the terminal of said branch, a socket member provided at one end with a rigidly surfaced recess adapted to detachably receive said element and having its other end threadingly engaged by the

upper extremity of said pipe, a support for carrying the combined pipe and socket, and a nut on the threaded end of the pipe under said support serving to draw said socket thereagainst from the opposite side.

1,376,562. CAP-REMOVER. FREDERICK METZLER, Philadelphia, Pa. Filed Sept. 7, 1920. Serial No. 408,563. 3 Claims. (Cl. 65—47.)

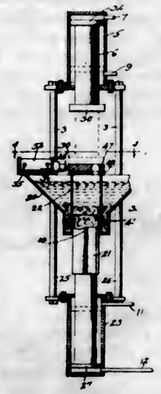


1. A bottle cap remover comprising two integrally formed spring arms one having its outer end pointed and the other having its outer end offset, and the said offset end provided with inwardly extending prongs.

1,376,563. PROCESS FOR THE PREPARATION OF PURE ALKALINE ALUMINATES. PAUL MIGUET, St. Julien-Montricher, France, assignor to Societe dite: Rochette Frères, St. Julien-Montricher, Savoie, France. Filed Nov. 3, 1919. Serial No. 335,418. 2 Claims. (Cl. 204—31.)

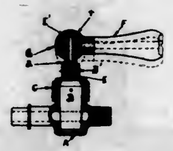
2. In the production of alkali aluminate, the improvement which comprises reaction with an alkaline earth compound which upon heating alone leaves an oxid, on aluminum oxid ore in the presence of a reducing agent at a temperature sufficiently high to reduce substantially all of the oxids in the ore, other than the Al_2O_3, separating the reduced material from the alkaline earth aluminate and reacting on the latter with an alkali metal carbonate.

1,376,564. METHOD OF AND MEANS FOR FORMING ARTICLES OF PLASTIC MATERIAL. JOHN H. MORGAN, Detroit, Mich. Filed Mar. 15, 1920. Serial No. 365,758. 4 Claims. (Cl. 25—6.)



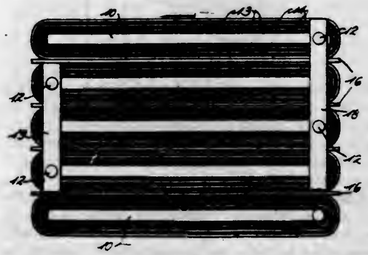
1. The herein described method of forming articles of plastic material which consists in first placing the material in a liquid and then separating a predetermined quantity of the material and liquid and applying intensified pressure thereto while in a mold, the mold being of a character to discharge the liquid when under pressure and to prevent escape of the material.

1,376,565. SAFETY-VALVE. STANISLAUS J. MOZUR, Erie, Pa., assignor to Kasimer W. Mozur, Erie, Pa. Filed June 1, 1920. Serial No. 385,629. 1 Claim. (Cl. 251—91.)



In a device of the class described, a valve plug, a stem thereon, flat surfaces on opposite sides of said stem, an axial post of less diameter than the width of said stem between said flat surfaces extending above said stem, an annular flange at the upper end of said post, said stem and post having a central longitudinal hole therein, a spring in said central longitudinal hole adapted to yieldingly maintain said handle in its uppermost position on said stem, a handle journaled on said stem and flange, a set-screw in said handle adapted to engage the under side of said flange to retain said handle on said stem, said handle having a transverse slot in the under side thereof adapted to embrace the flat sides on said stem when said handle is pressed downwardly thereon, substantially as set forth.

1,376,566. STORAGE BATTERY. JOHN H. MURPHY, New York, N. Y. Filed May 12, 1920. Serial No. 380,880½. 5 Claims. (Cl. 204—29.)

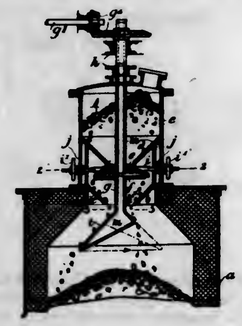


5. A storage battery of generally rectangular shape composed of a series of generally flat oblong elements each comprising a flat lead core with openings therethrough, and layers of thin corrugated and perforated lead on both sides of the core, the sheets being arranged in pairs with the corrugations of each pair crossing, whereby the several elements may be closely packed, and perforated sheets of insulating material separating the several elements.

1,376,567. FUEL FEEDING AND DISTRIBUTING DEVICE FOR GAS-PRODUCERS. HARALD NIELSEN, Middlesex, and FREDERICK DEACON MARSHALL, Westminster, London, England. Filed Sept. 11, 1920. Serial No. 409,666. 4 Claims. (Cl. 214—18.)

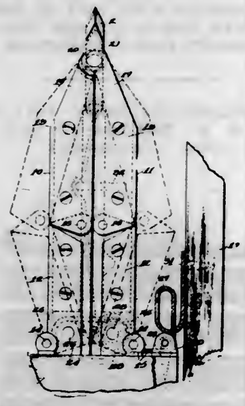
1. In a fuel feed for a gas producer, the combination with a fuel container, having an inverted conical bottom provided with a wide central orifice, a rotatable vertical shaft extending through said orifice, a circular feeding

table secured to said shaft, below said orifice, a distributing cone segment on said shaft below said table, and



stationarily mounted scrapers extending above said feeding table.

1,376,568. HAY-PERFORATING DEVICE. OWEN D. NOLEN, Lebanon, Tenn. Filed Jan. 10, 1920. Serial No. 350,666. 4 Claims. (Cl. 100—29.)



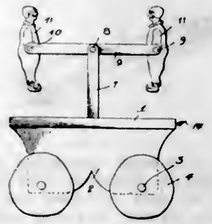
1. The combination with a bale press, including a frame, and a movable plunger or baling head, of a hay perforator mounted on the baling head, comprising flexibly connected foldable sections yieldable toward and away from the baling head, and means connected to the perforator and to a portion of the frame of the press for controlling folding movement of the perforator during movement of the baling head.

3. The combination with a bale press, including a frame, and a movable plunger or baling head, of a hay perforator mounted on the baling head, comprising side members, each including hingedly connected sections, said side members being pivotally connected to one another at their outer ends and having pivotal connections at their inner ends to the baling head, a spring normally holding the said members in parallel outstanding relation and a flexible member connected at one end to the said side members and at its opposite end to a portion of the frame of the press, as and for the purpose described.

1,376,569. TWO-TONE DOUBLE-PIECE DYE GOODS AND METHOD OF MAKING SAME. HENRY NOLL, Queens, N. Y., assignor to himself and James W. Streeton, New York, N. Y. Filed May 18, 1920. Serial No. 382,362. 4 Claims. (Cl. 8—5.)

1. The herein described process of producing two-tone double dye satin piece goods, which consists in first dyeing a part of the raw silk with a fast color-resisting dye, weaving the thus dyed silk with raw undyed silk so that the colored silk will appear on one surface of the goods and the raw silk on the opposite surface, and then dyeing the uncolored surface.

1,376,570. WHEELED TOY. HARRY G. NORWOOD, Baltimore, Md., assignor to William Fuld, Baltimore, Md. Filed Aug. 12, 1920. Serial No. 402,982. 3 Claims. (Cl. 46—45.)



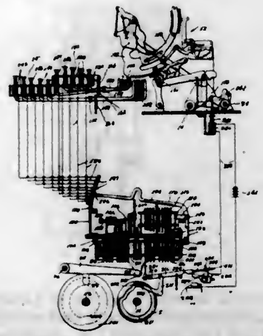
1. A wheeled toy comprising wheels having irregular peripheries, a platform carried by said wheels, a standard on said platform, and a freely swinging rocker arm carried by said standard.

1,376,571. HOLDER. JOHN R. NUNNS, Waterbury, Conn. Filed Apr. 28, 1920. Serial No. 377,327. 9 Claims. (Cl. 24—13.)



9. An article holder including a base having one end extended to form a clip, a fulcrum borne by the base and extending upwardly therefrom, a lever connected at one end to the free end portion of the clip and engaged between its ends with the fulcrum and having its opposite end free so that upon depression of the free lever end the clip will be moved away from the article, said base having a cap and the clip being extended to form a pin which latter has a free end engageable with the cap.

1,376,572. ELECTRICAL NON-STOP CARD-TABULATOR PRINTER. HAROLD D. PENNEY, Pelham, and JOSHUA E. DAVIDSON, New York, N. Y., assignors to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 6, 1917. Serial No. 200,516. 33 Claims. (Cl. 235—58.)



1. In an apparatus of the character described, the combination with an accounting machine; an analyzer for analyzing devices having characteristic conformations; a movable member adapted to be moved by said analyzer; contacts all adapted to be contacted by the movable member; and electrical conductors and a source of electric current operatively connecting said contacts and movable member to said accounting machine.

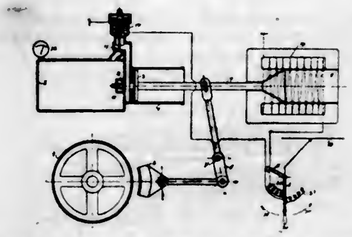
3. In an apparatus of the character described, the combination with an accounting machine having positioning members; an analyzer for analyzing devices having characteristic conformations; a movable switch member adapted to be moved by said analyzer; a row of contacts all adapted to be contacted by the switch member; and means for electrically connecting the contacts to said positioning members.

10. In an apparatus of the character described, the combination of an accounting machine having a total taking mechanism; a card holding device; a support; a reciprocating member yieldably held against said support and adapted thereby to move in a certain path, and adapted to be held from said path by a card in said device; and electric means operated by said member when in said path for operating the total taking mechanism.

12. In an apparatus of the character described, the combination with an accounting machine, of a card analyzer comprising a card receiving part; means whereby the accounting machine is controlled from said analyzer; a source of power for the apparatus; a source of current; conductors connecting said sources; a switch interposed in one of said conductors; a bell crank, said switch having a movable contact mounted on said bell crank and a stationary contact, and a reciprocator adapted to feel in said receiving part and operatively connected to said bell crank to open said switch when the pin is reciprocated during the absence of a card in the receiving part.

15. The combination, with an accounting machine having operating stop levers, of a solenoid for operating each stop lever; a plurality of analyzing pins; switch levers actuated by the analyzing pins; contacts contacted by the switch levers and electrically connected to the respective solenoids; a source of current; and means for connecting said source to said solenoids and said switch levers.

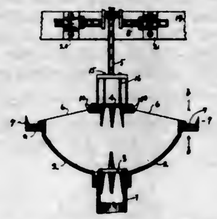
1,376,573. AIR-BRAKE. HENRI PIEPER, Liege, Belgium. Filed July 18, 1916. Serial No. 109,933. 8 Claims. (Cl. 303—10.)



1. In an air controlling means for brakes, a compression chamber, a brake cylinder, means of communication between the compression chamber and the brake cylinder, a valve for regulating the flow of air from the compression chamber to the brake cylinder, electrical means for controlling said valve, a piston slidable within the brake cylinder adapted to travel away from said compression chamber as the air is admitted to the cylinder, a brake shoe, means for transmitting said motion to said brake shoe, electrical means for returning the piston to its normal position to release the brake shoe, means for controlling the brake releasing means, and means for maintaining pressure in the compression chamber.

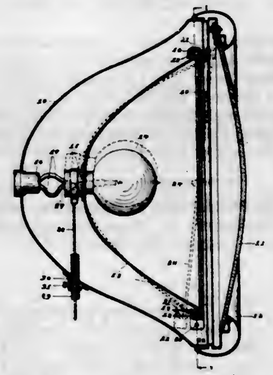
1,376,574. PUMP FOR PUMPING AND AGITATING CYANID AND ORE SOLUTIONS. JACOB FRANKLIN PINNEY, Spokane, Wash. Filed May 6, 1919. Serial No. 295,248. 1 Claim. (Cl. 103—10.)

In a pump comprising a pipe, a bowl attached to said pipe, a plunger, a flexible covering connecting said plunger with said bowl, means to attach said covering to said plunger, a sectional inner rim having means for receiving the slack of said flexible covering, and means for attach-



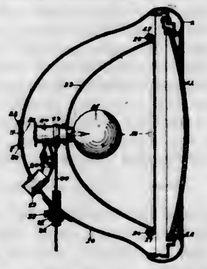
ing and firmly locking said sections of said rim to the rim of said bowl, so as to substantially hold said flexible covering firmly to said bowl.

1,376,575. HEADLIGHT. TRUMAN W. POST, Providence, R. I., assignor to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Sept. 12, 1917. Serial No. 190,975. 2 Claims. (Cl. 240—41.)



1. A device of the class described, comprising the combination of a casing; a reflector mounted to tilt therein, the forward edge of said reflector being provided with a forwardly facing annular groove; a packing ring disposed in said groove; a pane of glass having its periphery engaging said packing ring; and a split channel-shaped ring embracing the forward edge of said reflector and the periphery of said pane, and clamping said pane of glass in place against said packing ring, closing the open end of said reflector and maintaining the circular shape of the rim of the same; and means for tilting said reflector.

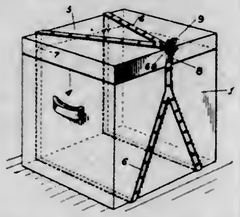
1,376,576. HEADLIGHT. TRUMAN W. POST, Providence, R. I., assignor to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Sept. 12, 1917. Serial No. 190,976. 3 Claims. (Cl. 240—41.)



1. In a headlight, the combination of a casing, a reflector tiltably mounted therein, a sleeve secured to said

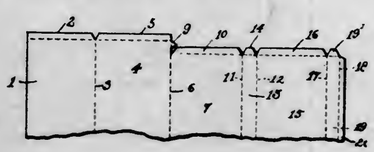
reflector, a lamp socket slidable longitudinally in said sleeve, lamp adjusting means comprising coöperative parts respectively carried by the rear end of said sleeve and said socket to slide the latter and means for tilting said reflector, said means being secured to said sleeve intermediate the reflector and the adjusting means, and said casing being provided with an opening at the rear for the insertion of a tool to operate the adjusting means.

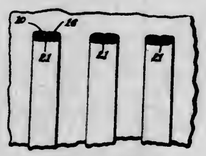
1,376,577. PORTABLE REFRIGERATOR. JACK M. PUN, Stockton, Calif. Filed May 15, 1920. Serial No. 381,559. 4 Claims. (Cl. 217—7.)



1. A refrigerator comprising a receptacle to receive the produce, a water tight ice well in the receptacle, a removable combined cover and ice retainer fitted in the receptacle above the well and in communication therewith, the bottom of the well having a drain outlet, and a small pipe leading from a point substantially at the top of the well to the drain outlet and communicating therewith.

1,376,578. EVAPORATING APPARATUS. CHARLES F. PURINTON, Burlington, Vt. Filed Sept. 11, 1916. Serial No. 119,384. 7 Claims. (Cl. 127—9.)

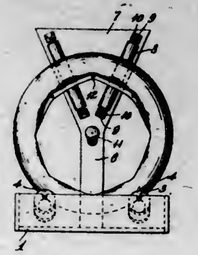




7. A syrup pan comprising duplicate side sections including each a side wall, a bottom part, spaced flue walls and a top flue portion, an intermediate flue section comprising connected flue units having overlapped end portions and having top portions adapted to interlock with the top portions of the side sections, individual closures adapted for lodgment between said overlapped end portions of the flues and having horizontally disposed flanged portions defining guides disposed in mutual alinement, and longitudinally extending locking strips having engagement with said side sections and having portions disposed in said alined guides and interlocked therewith.

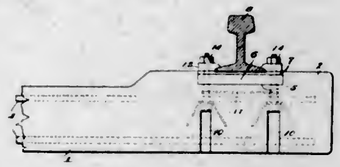
1,376,579. TIRE-CASING-INSPECTING APPARATUS. EARLE RAMSDELL, Cleveland, Ohio. Filed Oct. 21, 1918, Serial No. 258,950. Renewed July 4, 1919. Serial No. 308,685. 4 Claims. (Cl. 88—14.)

1. Apparatus for inspecting tire casings, comprising a base, grooved spaced rollers mounted in the base, an upright supported by and inclined to the base, and spaced rollers mounted on the up-right, said rollers carried by the up-right being sufficient in length to accommodate various



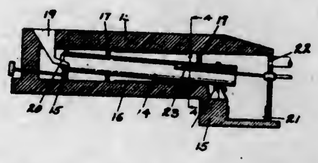
sizes of casings and being inclined to each other and conforming substantially to the mean radius of the various casings to be inspected.

1,376,580. CONCRETE TIE. ADRIAN C. RAPELJE, Harrisburg, Pa. Filed Oct. 11, 1920. Serial No. 416,043. 4 Claims. (Cl. 238—265.)



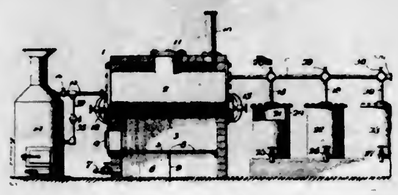
3. A tie comprising a body, tubular socket members extending through the tie and formed with enlarged heads adapted for the reception of the heads of rail fastening bolts, and anchoring rods having angularly extending end portions engaging the enlarged heads of said tubular socket members.

1,376,581. PROCESS AND APPARATUS FOR THE PRODUCTION OF LEAD OXID. HARRY S. REED and HENRY L. PUBLOW, East Lansing, Mich. Filed Sept. 17, 1920. Serial No. 411,013. 14 Claims. (Cl. 204—31.)



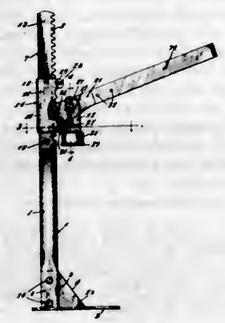
1. The process for producing lead oxid from basic carbonates of lead containing or admixed with organic matter consisting in drying the mass, reducing the same to granular form, introducing the mass into a revolving drum in a vented electric furnace, agitating and heating the same in the presence of the contained air to a temperature of about 600 degrees Fahr. to slowly oxidise the organic matter, until a test portion heated above the dissociating temperature of the basic carbonate of lead shows no reduction to metallic lead, introducing the treated mass into a closed electric furnace having a discharge opening for the carbonic acid gas and having a revolving drum for advancing and agitating the contents, and a collecting bin for the lead oxid, and heating the same to a temperature of 1100 degrees to 1200 degrees Fahr. whereby the mass of material is heated within an atmosphere of carbon dioxid, whereby the material is dissociated into lead oxid (PbO), in granular form, carbonic acid gas and water, as specified.

1,376,582. METHOD OF DISTILLATION. GEORGE F. RENDALL, New York, N. Y., assignor to Carbon Products Company, a Corporation of Delaware. Filed June 13, 1917. Serial No. 174,436. 1 Claim. (Cl. 196—25.)



A method of distilling, which consists in first charging the retort with solid carbonaceous material, next hermetically sealing said retort, next admitting superheated steam until all air is exhausted from said retort, next externally heating said retort, next withdrawing the vapors from said retort by means of superheated steam, next condensing said vapors, next cooling the material in said retort by a current of wet steam prior to its removal from said retort.

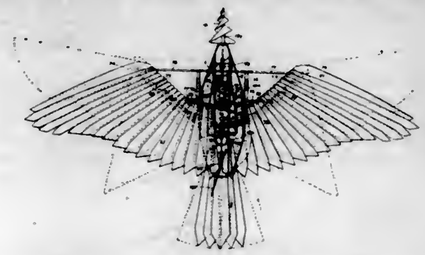
1,376,583. BOTTLE-CAPPER. HAROLD G. RICE, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 427,004. 2 Claims. (Cl. 226—84.)



1. In a bottle capper, a rider fashioned from a single plate formed into a rear wall, and sides having first and second extensions, the first extension having a notch in its lower edge, the notch defining an inner wing prolonged transversely of the rider into engagement with the second extension, the second extension having a notch in its upper edge, the sides being provided at their forward edges with ears located above the extensions, and a securing device connecting the ears; a frame comrising a rack received slidably in the space defined by the rear wall, the sides, the inner wing and the ears; a lever located between the extensions and fulcrumed thereon, the lever including a segment meshing with the rack, the notch in the second extension exposing the rack and the segment at their place of meshing, to provide for the egress of dirt, the lever being in contact with the extension at a point opposite to said notch; and a capping head carried by the extensions.

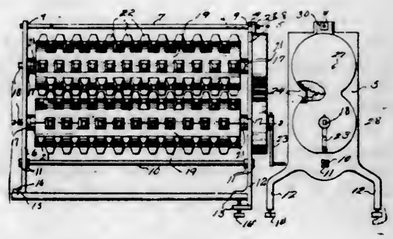
1,376,584. FLYING-MACHINE. FRANCIS M. RILLEAU, San Francisco, Calif. Filed July 12, 1917. Serial No. 180,083. 7 Claims. (Cl. 244—29.)

1. In a flying machine, a frame piece extending across the machine, a series of feather-like sustaining devices pivotally attached to said frame piece on each side of the machine on vertical axes, an engine carried by the flying



machine, and means operated by said engine for simultaneously oscillating said sustaining devices.

1,376,585. GEAR-HOUSING FOR MEAT-CRUSHERS. CHARLES ROBBINS, Lawrenceville, Ill. Filed Apr. 2, 1918. Serial No. 226,181. 2 Claims. (Cl. 74—56.)



1. In an organized mechanism including a frame, shafts journaled through and geared together forward of said frame, driving means on one shaft forward of its gear, and a bar projecting forward beyond said frame and having a nut; a gear housing comprising a plate having a hole to surround the drive shaft between its gear and driving means, an inturned peripheral flange on the plate to inclose the gears, and an apertured lug on the flange to be engaged by said bar and nut.

1,376,586. TOBACCO-TABLET. FRANCIS SCHWARTZ, Brooklyn, N. Y. Filed Apr. 6, 1918. Serial No. 227,102. 1 Claim. (Cl. 131—15.)



As an improved article of manufacture, a tobacco tablet having its marginal portions chamfered in opposite directions from the side faces of the tablet to a meeting edge, and a package for the tablet consisting of chicle of uniform thickness entirely covering all surfaces of the tablet.

1,376,587. CORNER-JOINT. JOHN K. SHAW, Minneapolis, Minn., assignor to B. G. Dahlberg, St. Paul, Minn. Filed May 23, 1918. Serial No. 236,163. 3 Claims. (Cl. 20—5.)

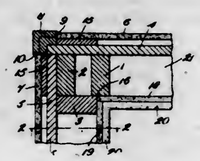
1. A building comprising side walls of timber material supported by corner members, said timber material being covered with boards of porous fiber board material whose end edges are fragile and overlap in pairs at the corners of said building; each pair of said fragile end edges provided with a metal strip having side members disposed

at an angle to each other, one of said side members entering the fragile, overlying edge of one of said pair of boards, and the other of said side members underlying the other



fragile end edge of said pair of boards, and the whole structure being securely nailed together, substantially as described.

1,376,588. CORNER STRUCTURE FOR INCLOSURES. JOHN K. SHAW, Minneapolis, Minn., assignor to B. G. Dahlberg, St. Paul, Minn. Filed May 23, 1918. Serial No. 236,164. 2 Claims. (Cl. 20—5.)



1. In a building the combination of a corner construction; a set of wall members joined to said construction; a second set of wall members joined to said construction and making an angle with said first named set; a set of overlapping porous, heat insulating boards of material having fragile edges overlying said first named wall members; a second set of porous, heat insulating overlapping boards having fragile edges overlying said second named wall members the fragile end edges of which are spaced from the fragile end edges of said first named set of overlapping boards; wedges located between said boards, and said wall members; and an integral corner member of wood located between said end edges and having side surfaces against which said fragile end edges abut, whereby the latter are protected from injury, substantially as described.

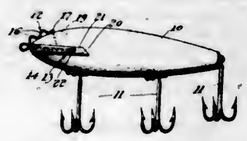
1,376,589. WHEEL. ALBA K. SIMMONS, Roanoke, Va. Filed May 17, 1920. Serial No. 381,834. 10 Claims. (Cl. 301—63.)

1. A wheel for motor vehicles or the like including a centrally arranged hub, a felly, a disk attached to the hub and extending to one side of and overlying the felly, and a ring overlying the other side of the felly and extending centrally inside the limits thereof, there being securing means passing through the disk, the felly and



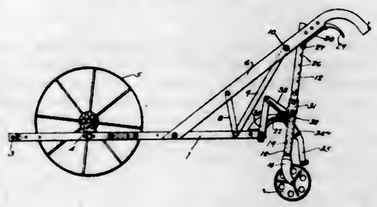
the ring, and other securing means passing through the disk and the ring inside the limits of the felly.

1,376,590. ARTIFICIAL BAIT. WILLIAM A. STOLLEY, Dowagiac, Mich., assignor to James Heddon's Sons, Inc., Dowagiac, Mich., a Corporation of Michigan. Filed Jan. 22, 1917. Serial No. 143,592. 2 Claims. (Cl. 43—46.)



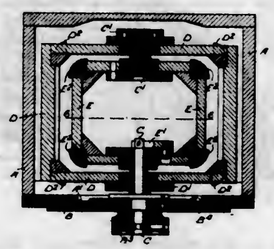
1. An artificial bait comprising an elongated body portion having a tapering front portion substantially circular in cross-section, a fish hook secured thereto, and a metallic line fastener to which the line is secured comprising an elongated one-piece member having a portion of sinuous form, having a plurality of crimped portions to any one of which the line may be fastened, said one-piece member also having a screw threaded shank portion which is screwed axially into said tapering front portion, said sinuous portion extending rearwardly and extending at such an angle with respect to said shank portion that said tapering front portion of the body will not interfere with the continuous portion of the shank as the shank is screwed into the body.

1,376,591. TRUCK FOR AGRICULTURAL IMPLEMENTS. ELMER E. TOWLE, Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio, a Corporation of Ohio. Filed Aug. 28, 1919. Serial No. 320,436. 9 Claims. (Cl. 97—14.)



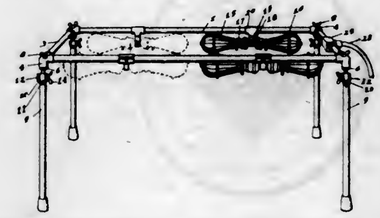
8. In a machine of the character described, a truck frame, caster wheels for supporting the same having stems journaled in said truck frame, a main frame, handle bars connected to said main frame, the rear end of said main frame being slidably mounted upon said stems and said handle bars having a slidable connection with the sides of said truck frame, a carrying wheel for the forward end of said main frame, a rock shaft carried by said truck frame pivotally connected with said main frame, a foot lever connected with said rock shaft for raising said main frame, and catches carried by said handle bars to engage the sides of said truck frame to hold said main frame and handle bars in different positions of adjustment with respect to said truck frame.

1,376,592. VARIOMETER. JOHN SEALY EDWARD TOWNSEND, Oxford, England. Filed Apr. 10, 1918. Serial No. 227,681. 19 Claims. (Cl. 171—242.)



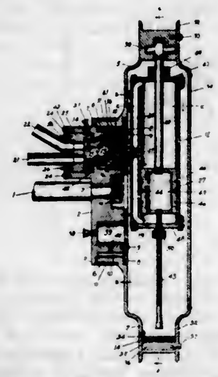
1. In a variometer, the combination of a fixed frame, a rotatable frame, a coil wound upon each frame, the self induction of said coils being equal, and a switch adapted to connect the coils in series or in parallel.

1,376,593. THERAPEUTIC APPARATUS. ROY X. TUTTLE, Battle Creek, Mich. Filed Sept. 30, 1919. Serial No. 327,531. Renewed Mar. 14, 1921. Serial No. 452,347. 8 Claims. (Cl. 174—177.)



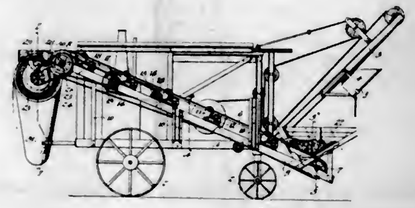
5. In a structure of the class described, the combination of a frame, leg coupling members mounted on said frame for rotative adjustment about vertical axes and provided with means for securing them in their adjusted positions, legs pivotally mounted on said leg coupling members and provided with means for securing them in their adjusted positions so that the legs may be collapsed longitudinally of the frame or adjusted to support the frame in various positions relative to the patient to be treated, and lamps mounted on said frame.

1,376,594. STEAM-POWER AUTOMOBILE-WHEEL. PHILIP W. WALTZ, Portland, Oreg. Filed June 14, 1920. Serial No. 388,760. 6 Claims. Cl. 180—55.)



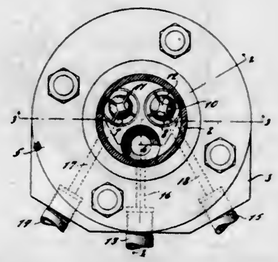
1. In an automobile wheel, the combination of a rigid axle, a non-rotating hub at the end of the axle, a wheel structure having at one side an outwardly extending flange mounted on the hub, and an end plate screwed to the hub to hold said flange in place, with steam-operated means within the wheel structure to impart rotation to said wheel, and with means to supply steam through the non-rotating hub.

1,376,595. SCREENING ATTACHMENT FOR POWER-SHOVELS. HENRY WEIGEN, Buffalo, N. Y., assignor, by mesne assignments, to Buffalo Equipment & Construction Company, Inc., a Corporation of New York. Filed Sept. 26, 1917. Serial No. 193,369. 1 Claim. (Cl. 262—2.)



An attachment for a portable excavating apparatus having a carriage and a shoveling device which is arranged at the front end of the carriage and adapted to pick up the material from the roadway, comprising a conveyer adapted to be mounted lengthwise on one side of the carriage and having its front part projecting forwardly beyond said carriage and adapted to receive from said shoveling device the material to be separated while its rear part projects rearwardly beyond said carriage, and a screen adapted to be mounted on the rear part of said carriage and having its inlet arranged to receive the material to be separated from the rear end of said conveyer while its outlet is arranged on that side of the carriage opposite said conveyer.

1,376,596. DEVICE FOR CONTROLLING THE FLOW OF FLUIDS. PERRY WEST, Newark, N. J., assignor to Anti-Corrosion Engineering Company, Inc., a Corporation of New York. Filed Apr. 22, 1920. Serial No. 375,831. 9 Claims. (Cl. 210—30.)

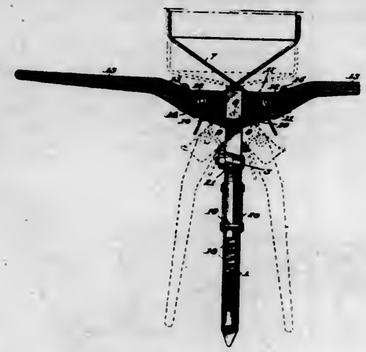


1. A device of the class described, adapted for use in connection with a fluid supply pipe line, comprising means for diverting a part of the flow of fluid in said supply pipe line, said means including a plurality of separate means operatively controlled by the volume of fluid flowing.

1,376,597. PORTABLE TOOL FOR SECURING BINDING MATERIAL TO RECEPTACLES. CLARENCE E. WISE, Washington, D. C. Filed Jan. 27, 1919. Serial No. 273,409. 14 Claims. (Cl. 140—121.)

2. A tool of the character described, comprising pivoted members, each having a rigid jaw at one end with recesses

formed in each jaw, tensioning and tightening levers supported by one of said jaws, and transversely arranged

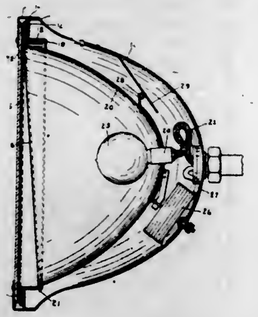


forwardly and rearwardly swinging levers pivotally mounted on one of the jaws.

1,376,598. METHOD OF MAKING NITROSTARCH AND THE LIKE. GEORGE R. ANCHORS, St. Louis, Mo. Filed Mar. 19, 1918, Serial No. 223,314. Renewed Oct. 15, 1920. Serial No. 417,267. 6 Claims. (Cl. 23—24.)

1. The method of nitrating starch, which consists in first placing starch in a vessel; and then introducing nitrating solution from the bottom of said vessel, substantially as described.

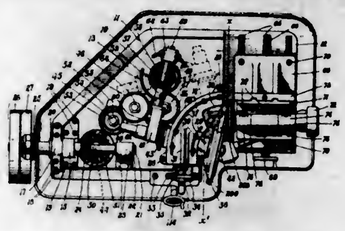
1,376,599. LAMP CONSTRUCTION. SAMUEL F. ARBUCKLE, Indianapolis, Ind., assignor to United States Automotive Corporation, Connersville, Ind., a Corporation of Delaware. Filed Mar. 14, 1919. Serial No. 282,680. 8 Claims. (Cl. 240—41.)



7. The combination with a lamp casing, and a lens therefor, of a tiltable reflector mounted within the lamp casing, means on the lower edge of said reflector for pivotally supporting it within said casing so as to be tiltable therein, and a bellows mounted between said reflector and casing for controlling the tilting movement of said reflector.

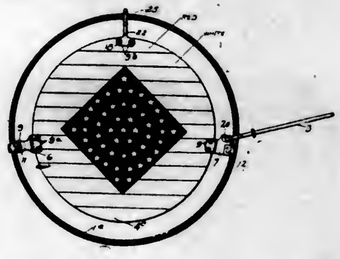
1,376,600. GEAR-CUTTING MACHINE. JOHN-ERVIN LLOYD BLACKMORE, Detroit, Mich., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Oct. 12, 1916. Serial No. 125,328. 9 Claims. (Cl. 90—9.)

1. A gear cutting machine comprising means for rotatably supporting a cutting element, a drive shaft, a work spindle, having its axis angularly adjustable relative to said drive shaft and revoluble thereabout past the oper-



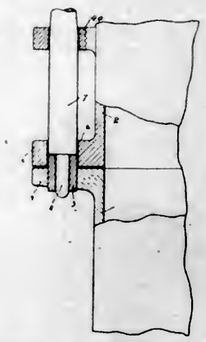
ative path of said cutting element and means for connecting said cutter element and said spindle to said drive shaft for continuous rotation thereby.

1,376,601. ROLLING-HOOP ADVERTISER. HENRY BURRMANN, Davenport, Iowa. Filed Feb. 12, 1919. Serial No. 276,688. 3 Claims. (Cl. 46—38.)



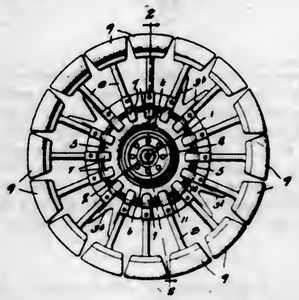
1. A rolling-hoop-advertiser, consisting of a revoluble hoop, sheet means loosely suspended therein, suspending means for loosely suspending the sheet means within the hoop, handle means loosely attached to the suspending means and loosely engaging the hoop; all for the purposes specified.

1,376,602. MOLDING-FLASK. GEORGE W. CANNON, Muskegon, Mich. Filed Apr. 12, 1920. Serial No. 373,057. 5 Claims. (Cl. 22—110.)



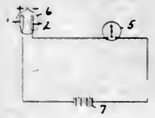
1. In a molding flask, a drag and cope, each having ears extending therefrom located so that the ears of the cope come against and directly above those of the drag, a bushing permanently connected with and extending through each ear of the drag and projecting a distance above said ear, said bushing having a vertical opening therethrough, said ears on the cope being provided with vertical openings therethrough of a size so that the bushing may just enter the same, and a guide pin comprised of an upper portion, the lower part of which has the same diameter as the outside diameter of the bushing and tapers upwardly therefrom, and a lower portion adapted to enter the opening in the bushing and center the pin with respect to the bushing, one of said guide pins being used with each ear on the drag, substantially as and for the purposes described.

1,376,603. WHEEL. JAMES A. CARTER, St. Louis, Mo. Filed Nov. 15, 1919. Serial No. 338,174. 6 Claims. (Cl. 152—31.)



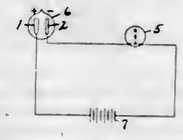
6. A wheel comprising a hub, a radially grooved annular web upon the hub, a pneumatic hub element carried by the hub on each side of the web, saddles seated upon the hub elements for yielding movement relatively to the web and hub and disposed in the grooves of the web, tread-supporting spokes carried by the saddles, and bands embracing all the saddles for preventing displacement thereof relatively of the hub-elements.

1,376,604. PROCESS OF PRODUCING PHOTO-ELECTRIC CELLS. THEODORE W. CASE, Scipio, N. Y. Filed Aug. 27, 1920. Serial No. 406,462. 10 Claims. (Cl. 219—76.)



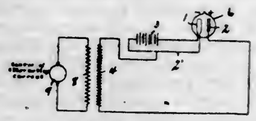
1. The process of producing a photo-electric cell comprising coating a heatable electrode with suitable material, inclosing said electrode and a second electrode in a vessel under vacuum, heating said electrode to throw off said coating connecting said electrodes in an electrical circuit, whereby the said thrown-off material deposits on the second electrode under bombardment of electrons.

1,376,605. PHOTO-ELECTRIC CELL. THEODORE W. CASE, Scipio, N. Y. Filed Aug. 27, 1920. Serial No. 406,463. 8 Claims. (Cl. 219—76.)



1. A photo-electric cell including an electrode having a coating of barium.

1,376,606. PHOTO-ELECTRIC CELL. THEODORE W. CASE, Scipio, N. Y. Filed Aug. 27, 1920. Serial No. 406,464. 8 Claims. (Cl. 219—63.)



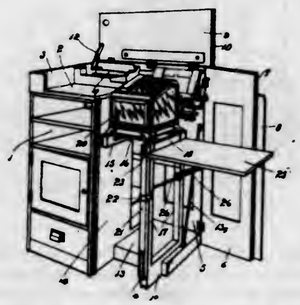
1. A photo-electric cell including an electrode having a coating of strontium.

1,376,607. METALLIC DOOR. WERNER E. CLARIN, Chicago, Ill., assignor to Roger S. Conant, Yonkers, N. Y. Filed Feb. 8, 1916. Serial No. 76,931. 9 Claims. (Cl. 189—53.)



1. A construction of the class described, comprising a hollow sheet metal member in channel form having securing portions at its open side located beyond and extending only in the same general direction as the sides, whereby said securing portions are not rebent; a securing member having portions lying adjacent said securing portions; and a locking key embracing said portions and securing them together, whereby the parts may be assembled without longitudinal sliding, substantially as described.

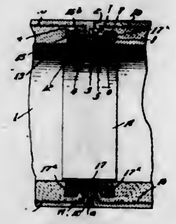
1,376,608. LEDGER-POSTING-MACHINE CABINET. ARTHUR F. CURTISS, Portland, Oreg., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich., a Corporation of Michigan. Filed July 24, 1918, Serial No. 246,489. Renewed Oct. 7, 1920. Serial No. 415,375. 4 Claims. (Cl. 45—52.)



3. In combination, a cabinet including a vertical side, a back rigidly extending at right angles therefrom, a second

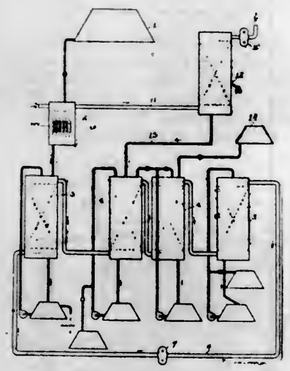
side hingedly connected to the vertical edge of said back, a front member hingedly connected to said second side, a top hingedly connected to the upper edge of the back, said top, front and second side members being adapted to turn to the rear, a supporting structure located in front of said back and adapted to carry a computing machine, and a table movably mounted on the supporting structure and adapted to be moved to horizontal position when the front and second side are turned to the rear and to be moved to vertical position alongside the supporting structure when the cabinet is closed, substantially as described.

1,376,609. CONCRETE PIPE. HARRY O. DAVIDSON, Cleveland Heights, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 15, 1917. Serial No. 174,834. 5 Claims. (Cl. 72—53.)



1. A concrete pipe composed of sections having annular interlocking inwardly projecting shoulders at their ends and interior annular recesses adjacent said shoulders, reinforcing members in said pipe sections and shoulders, and a concrete fitting within said recess, and overlapping said shoulders.

1,376,610. METHOD OF EXTRACTING BROMIN AND APPARATUS FOR USE THEREIN. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 7, 1916, Serial No. 102,238. Renewed Aug. 14, 1920. Serial No. 403,514. 1 Claim. (Cl. 204—9.)



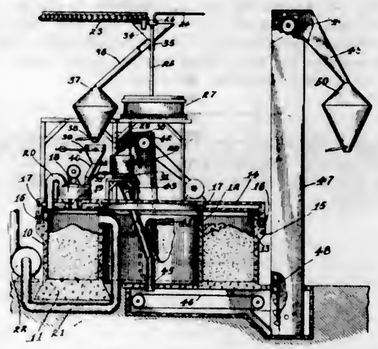
The process of extracting bromin from a natural brine, the stepa which consist in treating such brine electrolytically; drawing off any gases thus produced, which are not absorbed in the brine, by drawing air through the electrolytic apparatus; and then recovering the absorbed gases from such brine.

1,376,611. CHECK-PROTECTOR. WALTER M. DWYER, Hillsdale, N. J. Filed Oct. 28, 1920. Serial No. 420,163. 1 Claim. (Cl. 101—8.)



A check protector comprising in combination a hollow cylindrical tube of relatively thin metal, a knurled wheel whose diameter is less than the diameter of said tube, means for pivotally mounting said knurled wheel on the end of said tube, a cylindrical inked pad in said tube, a coiled spring is said tube arranged to force said inked pad into engagement with said knurled wheel, and a detachable cap arranged to slip over said knurled wheel and the end of said tube as and for the purposes set forth.

1,376,612. ACID-PHOSPHATE APPARATUS. RUFUS E. FORBIS, Charlotte, N. C., assignor to Chemical Construction Company, Charlotte, N. C., a Corporation of North Carolina. Filed June 14, 1920. Serial No. 388,846. 22 Claims. (Cl. 71—1.)



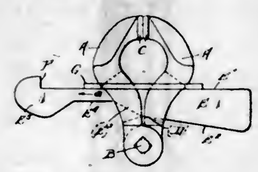
1. Den charging and discharging apparatus, including a stationary annular den, means mounted to travel along the den for depositing material therein, and means mounted to travel along the den for elevating material therefrom.

1,376,613. LINGERIE-CLASP. FRANS EDWARD FORSELL, Providence, R. I., assignor to Parks Bros. & Rogers, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 20, 1921. Serial No. 438,548. 2 Claims. (Cl. 24—259.)



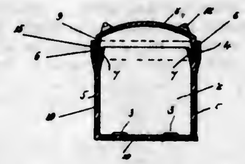
1. An article as characterized comprising a body portion having cooperating clasp sides united by a bent resilient portion and having at the free ends outwardly projected hook-like extensions adapted to be mutually engaged when said free ends are pressed together, said extensions being disposed in parallel planes, said planes being similarly inclined to the central vertical plane of said article.

1,376,614. CLAMP FOR CONCRETE-FORMS. HENRY J. FOSTER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 14, 1919. Serial No. 317,452. 5 Claims. (Cl. 24—251.)



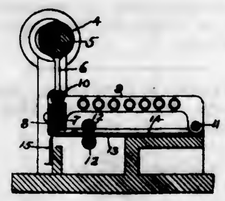
1. A clamp of the kind described, comprising a pair of arms pivotally connected at their ends and provided with jaws at their free ends, said arms being slotted intermediate their ends, a link surrounding said arms between the jaws and pivot, and a wedge working in said slots and engaging said link.

1,376,615. BURIAL-VAULT. LAURENCE GATES, Elyria, Ohio. Filed Mar. 3, 1920. Serial No. 362,904. 1 Claim. (Cl. 72—7.)



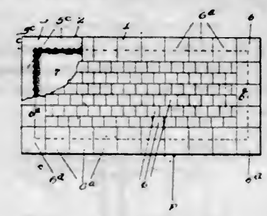
A burial vault, comprising a body portion having a sealing groove at its top, said groove having a rounded bottom arranged in a vertical plane directly over the vault side, the inner side wall of the said seal being of less height than its outer side wall and being inclined inwardly and the side walls of the said seal being arranged to project laterally one on each side of the vault side which is relatively thin, and a cover provided with a tapering flange having a rounded bottom which rests continuously in contact with the rounded bottom of the groove and supports the cover and prevents sealing material from flowing into the vault, the sides of the flange being supported out of contact with the sides of the sealing groove, and the space between the flange and the outer side of the seal being adapted to receive sealing material.

1,376,616. TOOTHPICK-MACHINE. EDWARD GREENWOOD, Phillips, Me. Filed Apr. 10, 1920. Serial No. 372,819. 5 Claims. (Cl. 144—190.)



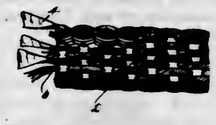
1. In a machine for cutting toothpicks, the combination of a shaft, an eccentric and eccentric rod thereon, a cutting block carried by said eccentric rod, a guide link for holding said cutting block in position, a stationary knife coacting with said cutting block and means for feeding a veneer strip over said knife.

1,376,617. PORTABLE BACK WALL FOR OPEN-HEARTH FURNACES. JOHN O. GRIGGS, Youngstown, Ohio. Filed Nov. 24, 1919. Serial No. 340,284. 10 Claims. (Cl. 263—66.)



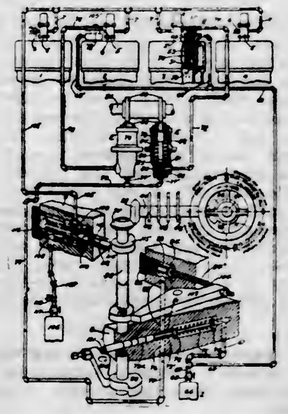
1. In a portable back wall for open hearth furnaces, the combination of a frame having a laterally projecting continuous marginal flange portion formed with backwardly sloping inner sides, and a facing of refractory material supported by said frame and having sloping sides conforming to said sloping sides of the flange portion, and projecting edge portions propecting over and covering said flange portion.

1,376,618. NON-METALLIC FLEXIBLE CONDUIT. HANS HANSEN, Maspeth, N. Y., assignor to Eastern Tube and Tool Co., Inc., a Corporation of New York. Filed July 1, 1919. Serial No. 308,035. 2 Claims. (Cl. 247—40.)



2. In a flexible tubular conduit, a helically coiled flattened weft strand, comprising a cord inclosed within a paper strip infolded upon itself, and alternating warp strands of textile fiber and of paper interwoven with said weft strand.

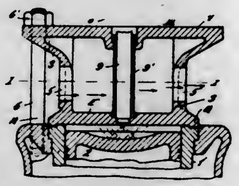
1,376,619. CONTROLLING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. REINHARD HILDEBRAND, Webster Groves, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed June 23, 1919. Serial No. 306,179. 24 Claims. (Cl. 60—16.)



15. An internal combustion engine provided with a fuel inlet, a fuel pump for the delivery of fuel to said inlet,

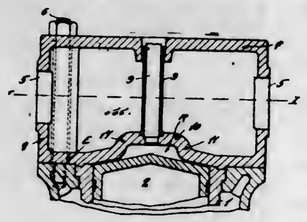
an injection air valve adapted to control the delivery of injection air through said inlet so as to prevent premature admission of injection air to the engine, and a manually operated controlling member common to said injection air valve and fuel pump.

1,376,620. CYLINDER-HEAD FOR INTERNAL-COMBUSTION ENGINES. REINHARD HILDEBRAND, Webster Groves, Mo. Filed Dec. 4, 1919. Serial No. 342,371. 11 Claims. (Cl. 123—173.)



3. An internal combustion engine provided with a combustion chamber and a cylinder head, said cylinder head having expanding central portions from which heat is rapidly transmitted to prevent undue expansion thereof, said cylinder head also having heat-retaining expanding marginal portions permitting expansion of said expanding central portions, said heat-retaining expanding marginal portions being directly exposed to heat generated in the combustion chamber so as to expand in response to the action of the heat, and fastening means for the cylinder head permitting expansion of said heat-retaining expanding marginal portions.

1,376,621. CYLINDER-HEAD FOR INTERNAL-COMBUSTION ENGINES. REINHARD HILDEBRAND, Webster Groves, Mo. Filed Dec. 4, 1919. Serial No. 342,372. 6 Claims. (Cl. 123—173.)



6. An internal combustion engine provided with a cylinder head having marginal portions, an expanding central portion exposed to the heat resulting from combustion in the engine, said elongated expanding central portion being offset relative to said marginal portions to form the top wall of a recess in the heat-exposed face of said head, and a yieldable connection integrally connecting said central and marginal portions to permit differential expansion thereof, said yieldable connection forming the side walls of said recess, said recess providing a combustion chamber in said cylinder head, a piston facing said top wall, and a fuel injector, whereby fuel is injected into said recess and onto said piston, the fuel receiving face of said piston being inclined downwardly from its center to provide for the distribution of fuel in the combustion chamber formed by said recess.

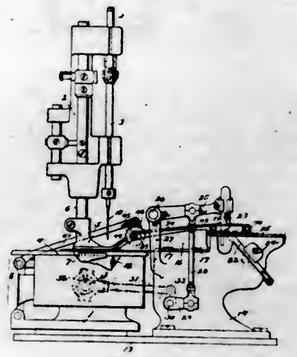
1,376,622. PROCESS OF MAKING DISK WHEELS AND RIMS. ROSCOE C. HOFFMAN, Indianapolis, Ind. Filed Oct. 11, 1919. Serial No. 330,062. 3 Claims. (Cl. 29—159.)

1. The process of forming a disk wheel and rim consisting of stamping out a sheet metal disk, drawing out a rim from said disk, rolling a peripheral depression around said rim, and securing an oppositely extending rim member to said first mentioned rim, by forcing one rim over



the other, said rims having means for engaging each other whereby one of said rims will interlock with the other.

1,376,623. SEWING-MACHINE. ROBERT R. HUGHES, Jr., Naperville, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1918. Serial No. 240,571. 16 Claims. (Cl. 112—203.)



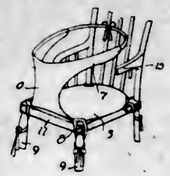
1. The combination of stitch forming mechanism, feeding mechanism for presenting the material to the stitching mechanism, a folder disposed in front of the stitching mechanism for folding a strip and delivering the same to the stitching mechanism, an auxiliary support in front of the folder for directing the strip to the folder, and a feeding device extending along said auxiliary support and into said folder for feeding the strip from the auxiliary support into the folder.

1,376,624. NUT LOCK OR FASTENER. JAMES W. IVORY, Philadelphia, Pa. Filed June 13, 1919. Serial No. 303,823. 3 Claims. (Cl. 151—28.)



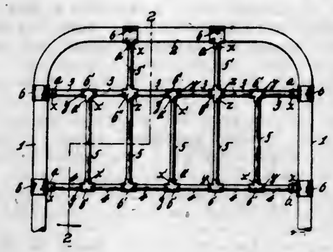
1. In a nut fastener, a nut adapted to be fitted on a bolt and having recesses on the outer face thereof, a clevis of resilient material having spring legs adapted to be engaged in said recesses, and a member having threaded engagement with the bolt and engageable with the clevis to compress the crown of the latter.

1,376,625. SAFETY APPLIANCE FOR HIGH CHAIRS. GERTRUDE ALCOCK JOHNSTON, Chicago, Ill. Filed May 14, 1920. Serial No. 381,445. 1 Claim. (Cl. 155—189.)



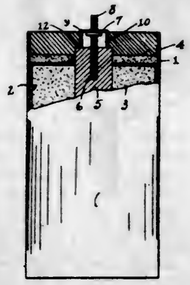
In a safety appliance for high chairs and the like consisting of a pliable cleanable unitary member adapted to be cut from a single piece of material, its outline being so shaped as to form a seat portion, the front edges of said seat portion being converged inwardly to form a single central crotch band, the upper edges of said crotch band being diverged outwardly to form a co-extensive waist band, means at the corners of said seat portion for fastening the same to the legs or back of the high chair, and means for fastening the waist band around the body of the infant.

1,376,626. BEDSTEAD. BENJAMIN H. JONES, St. Louis, Mo., assignor to Smith & Davis Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 3, 1920. Serial No. 421,499. 2 Claims. (Cl. 5—4.)



1. A metallic bedstead comprising suitable corner posts, cross rods extending between the posts, sheet metal couplings enveloping the posts and rods at their meeting points, said couplings being open along a line to permit their application to the posts and rods, and the couplings being spot-welded to the rods.

1,376,627. TERMINAL CONNECTION. HOMER W. JONES, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Oct. 10, 1919. Serial No. 329,833. 3 Claims. (Cl. 204—52.)



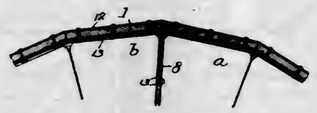
1. A dry cell comprising a container, a seal in said container, an electrode extending into said container and having its upper end below the upper surface of the seal, said electrode having a bore therein, a dowel having a ribbed portion forced in said bore in retaining engagement with the electrode and a portion projecting from said seal adapted to receive suitable means for attaching a conductor to the projecting portion, and a metallic member located above the upper end of the electrode between the ribbed and projecting portions of the dowel, said member having a portion embedded in the seal and an exposed portion adapted to coöperate with said means.

1,376,628. HAIR-CLIPPER. GEORGE A. LA FONTAINE, Los Angeles, Calif., assignor of one-half to Otto Steinen, Los Angeles, Calif. Filed Oct. 6, 1919. Serial No. 330,931. 3 Claims. (Cl. 30—1.)



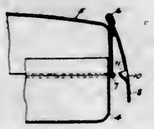
1. In a hair clipping device, the combination with relatively stationary and movable blades, of a head removably and adjustably held on said blades, a stationary grip member integral with said head, a relatively movable grip member for operating said movable blade, and means for automatically disconnecting said grip member by the substitution of power driven means for said blade.

1,376,629. DIRIGIBLE AIRSHIP. ALICE K. MATTULLATH, Inwood, N. Y., assignor to American Balsa Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1918. Serial No. 227,632. 4 Claims. (Cl. 244—3.)



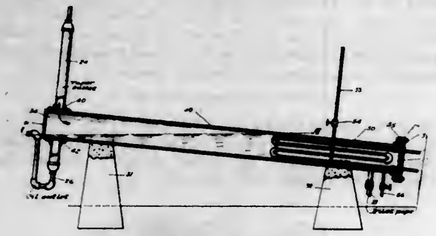
1. A substantially gas-tight gas envelop for containing the main buoyant gas field of dirigible airships comprising a skeleton-frame embodying a relatively hard and tough material, and walls which are principally composed of an extremely soft, elastic and porous wood of extremely low specific gravity, the pores of which have been lined or encysted throughout by a suitable preservative and waterproofing material whereby a gas envelop is provided having extreme lightness, a high degree of buoyancy in water, durability, and high heat insulating and non-splinterable properties.

1,376,630. COVER-LIFTING DEVICE. SYVER H. NESS, Portland, Oreg. Filed Aug. 17, 1920. Serial No. 404,059. 2 Claims. (Cl. 220—43.)



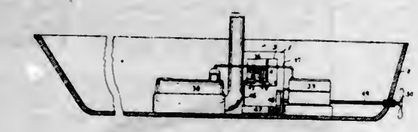
2. A cover lifting device, comprising a slip cover, an integral tongue rigidly secured at its base to the lower edge of the cover and upwardly bent along the side of the cover, and a member hinged near one end upon the upwardly extending free end of the tongue, the said member having in its lower part an integral beveled projection, the projection being arranged to allow its beveled surface to be moved into engagement with an opposing object below the cover edge.

1,376,631. STILL. DANIEL L. NEWTON and NEAL H. ANDERSON, Fullerton, Calif. Filed June 30, 1919. Serial No. 308,023. 4 Claims. (Cl. 196—3.)



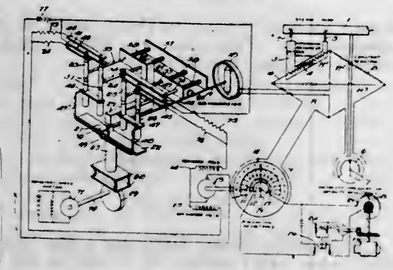
1. A still comprising a cylindrical shell having its axis inclined; a dry oil outlet pipe near the raised end thereof, so arranged as to maintain a free vapor space in said end above the level of the oil therein; steam coils completely submerged in the oil at the depressed end of said still; a vapor outlet pipe for taking off vapor from said vapor space; and a saturated oil inlet delivering oil to the interior of said shell.

1,376,632. AUTOMATIC PROPELLER-GOVERNOR FOR BOATS. HANS J. NIELSEN, San Francisco, Calif. Filed June 4, 1918. Serial No. 238,129. 6 Claims. (Cl. 115—43.)



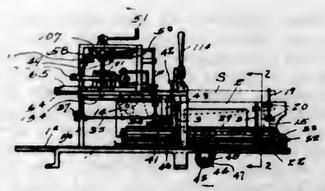
1. A propeller governor for a boat including in combination with a power controlling device for the propeller of the boat, a pendulum mounted in the boat to swing forwardly and sternwardly as the boat pitches forwardly or sternwardly, mechanism actuated by said pendulum when it swings forwardly to actuate said power device to reduce the speed of the propeller, and means controlled by the engine condenser vacuum for actuating said mechanism to actuate said controlling device to increase the speed of the propeller when said pendulum has done its work.

1,376,633. RELAY. JOHN A. OBERMAIER, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,527. 81 Claims. (Cl. 175—183.)



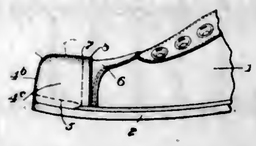
79. In a regulator for keeping a given phonomenon constant; a pointer occupying a definite balancing position for the desired constant phenomenon, a suitable regulating mechanism, an electro-responsive device for moving said regulating device in either direction when the pointer is deflected until the pointer is brought back to its balanced position, a circuit closer governed by the position of the pointer for actuating said electro-responsive device to cause said regulating device to be suitably varied, means for periodically testing for the position of the pointer with regard to said circuit closer at equal intervals of time, means for holding said circuit closers in closed position and common means for releasing the said circuit closers when the point returns to its balanced position.

1,376,634. SAW-FILING MACHINE. WALTER B. PENNY, Columbus, Ohio. Filed Oct. 4, 1919. Serial No. 328,366. 18 Claims. (Cl. 76—31.)



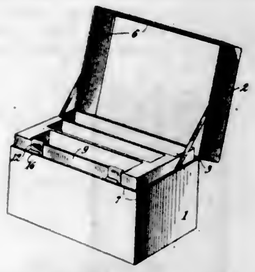
1. The combination with the intermittently forwardly movable saw carriage, and automatic return mechanism therefor, of an angularly disposed reciprocable file, and means for jointly operating said carriage and file.

1,376,635. FOOTBALL-SHOE. GEORGE L. PIERCE, Brooklyn, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 14, 1920. Serial No. 373,817. 5 Claims. (Cl. 36—72.)



5. A foot ball shoe comprising an upper, an outer sole, an inner sole having an integral extension turned up at its front end, and a box toe member secured to said extension of the inner sole, substantially as described.

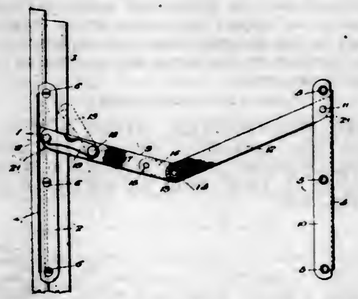
1,376,636. CLIP FOR STRENGTHENING CARDBOARD BOXES OR CARTONS. WILLIAM A. PIKE, Pittsfield, Mass. Filed Jan. 13, 1920. Serial No. 351,093. 3 Claims. (Cl. 229—6.)



1. The combination, with a box and cover of relatively fragile material, having abutting edges, said box having an internal rim in lapped relation with said cover, when closed, of a temporary box stay in the form of a clip to be used as a strengthening means during handling and shipment, said clip comprising a sheet of suitable rigid material bent in opposite directions at its end and returned upon itself, the returned portions being spaced from

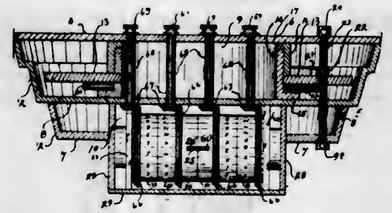
the body portion to form hooks opening in opposite directions, said stay being supported by engagement of one of said hooks with the edge of said rim, the other hook being located just above the box edge, so as to receive and firmly hold the abutting edge of said cover in place, when closed, and having its end portion lying in snug relation with the outer surface of said cover.

1,376,637. ATTACHMENT FOR WINDOW-SASHES. HERMAN P. PORTER, Jacksonville, Fla. Original application filed Dec. 1, 1919, Serial No. 341,658. Divided and this application filed Dec. 1, 1919. Serial No. 341,659. 5 Claims. (Cl. 292—263.)



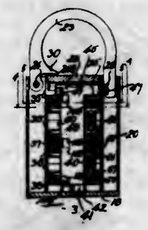
3. An attachment of the character described, comprising two longitudinal positioned fixedly secured keepers, each of said keepers being provided with a longitudinal integral flanged outward extension, two links of different lengths pivotally, yieldingly and adjustably connected at their meeting ends, each link being pivotally secured to a keeper, a recessed pin secured to one of the keepers for pivotally and detachably securing the shorter link thereto, and a pivoted locking latch secured to the shorter link adapted to engage said recessed pin for locking said link to its fixed keeper, all of said parts being adapted to be confined between the keepers when in folded or closed position.

1,376,638. PERMUTATION-LOCK FOR SAFES. ELLSWORTH E. QUAINTANCE, Denver, Colo., assignor to The Quaint Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed July 17, 1919. Serial No. 311,539. 16 Claims. (Cl. 70—53.)



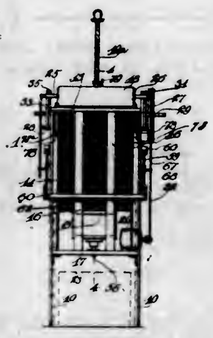
1. The combination with a door or other suitable supporting framework, of a disk rotatable therein, bolts connected with the disk to be actuated for locking and unlocking the door as the disk is rotated in reverse directions, the disk having a curved slot which is enlarged at one end, a rod movable in the enlarged extremity of the slot but being too large to pass through the body of the slot, the rod having a reduced part adapted to pass through the body of the slot but out of alinement with the slot when the door is locked, the rod being longitudinally movable to bring the reduced part into alinement with the body of the slot, and means, including permutation devices, for controlling the movement of said rod.

1,376,639. PERMUTATION-PADLOCK. ELLSWORTH E. QUAINTANCE, Denver, Colo., assignor to The Quaint Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Jan. 13, 1920. Serial No. 351,137. 6 Claims. (Cl. 70—112.)



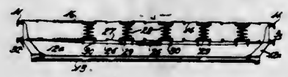
1. A lock, comprising a pair of pallets, permutation devices to control said pallets, a bolt in which said pallets are mounted, one pallet and said bolt having movement in unison while the other pallet has a limited movement independent of the bolt, a trigger engaging said pallets and adapted to move said other pallet independently of the bolt initially and then to move both pallets and the bolt simultaneously.

1,376,640. PRINTING-MACHINE. WILLIAM G. REYNOLDS, Chicago, Ill. Filed Jan. 7, 1920. Serial No. 350,002. 20 Claims. (Cl. 101—287.)



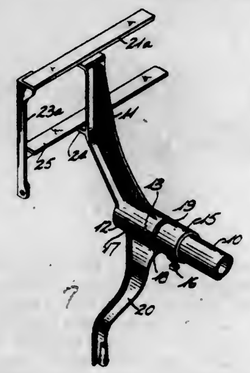
4. In a printing machine, means for supporting in a stack the blanks to be printed, a printing form, a platen movable between the stack and the printing form, and having means for taking the top blank off the stack, means for operating the platen to make a printing impression on the blank, and means for removing the printed blank from the platen on the return stroke of the platen toward the stack of blanks.

1,376,641. SPRING-BED. JULIUS ROEVER, New York, N. Y., assignor to Mary A. Roever, Richmond Hill, N. Y. Refiled for abandoned application Serial No. 99,484, filed May 24, 1916. This application filed Dec. 3, 1919. Serial No. 342,230. 5 Claims. (Cl. 5—39.)



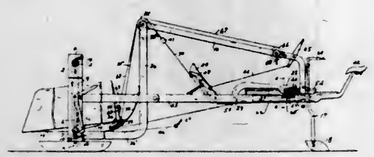
1. In a spring bed the combination with the bed surface, of clips forming a part of said surface and having downturned perforated lugs, and elastic longitudinal trusses extending beneath the fabric and through the aforesaid lugs.

1,376,642. COUCH-BED. JULIUS ROEVER, Richmond Hill, N. Y., assignor to Mary A. Roever, Richmond Hill, N. Y. Filed May 24, 1916, Serial No. 99,483. Renewed Oct. 14, 1920. Serial No. 417,015. 3 Claims. (Cl. 5—64.)



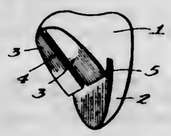
1. A structure of the kind described comprising rails, brackets rising from the end portions of the rails and having means thereon to support the cross-bars of a bed, and generally vertical corner pieces supported from the brackets outside the vertical plane of the rails thereby affording a finish to the bed corners.

1,376,643. SCRAPING APPARATUS. JOHN ROLLI, West Allis, Wis. Filed Feb. 25, 1918. Serial No. 218,991. 8 Claims. (Cl. 214—72.)



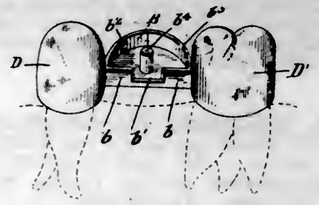
1. A scraper, including the combination with a vehicle frame having its side bars connected at their front ends by upwardly extending posts, and an overhead cross bar, a scoop supported from said posts, and adapted for tilting movement upon a transverse axis in various positions of vertical adjustment, steering mechanism and driving connections at the rear end of said frame, and manually controllable means for utilizing said driving connections to manipulate the scoop into and out of dumping position.

1,376,644. ARTIFICIAL TOOTH. FRANK H. RUSSELL, Elko, Nev. Filed May 27, 1918. Serial No. 236,938. 6 Claims. (Cl. 32—9.)



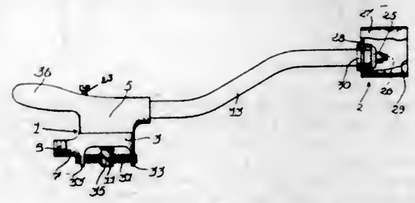
1. An artificial tooth comprising a crown having a base formed with a flat grooved bottom and an overhanging projection separated from the base by a groove and a metal plate with two upstanding walls engaging in said grooves.

1,376,645. ARTIFICIAL TOOTH. FRANK H. RUSSELL, Elko, Nev. Filed May 23, 1919. Serial No. 299,094. 9 Claims. (Cl. 32—9.)



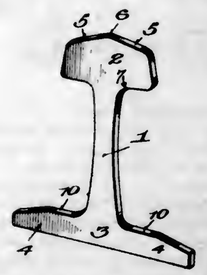
1. An artificial tooth including a crown, and a metal base plate to fit against the bottom of the crown, said base plate having marginal flange portions adapted to be bent up therefrom to form a pan-like structure to receive the base of the crown.

1,376,646. FLASH-IGNITER. ARNOLD O. RUTZ, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 12, 1919. Serial No. 303,741. 8 Claims. (Cl. 158—115.)



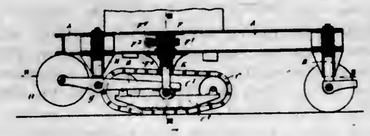
8. In an igniter for gas stove burners the combination of a fixed member for mounting at one side of the stove, a movable member supported by said fixed member, an inwardly directed firing head connected and movable with said movable member from a neutral position toward a stove burner, said head including an apertured tip and a horizontally disposed cylindrical shield inclosing said tip, said shield being mounted eccentrically of said tip and being closed on all sides except the side opposite said aperture, and means associated with said members for producing a pilot flame when said head is in neutral position and for producing a lighting flame when moved toward a stove burner.

1,376,647. INSULATING END POST. EDWARDS F. SCHERMERHORN, Brooklyn, and WILLIAM PATON THOMSON, New York, N. Y., assignors to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Dec. 20, 1919. Serial No. 346,223. 7 Claims. (Cl. 238—153.)



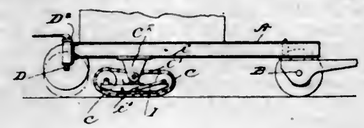
1. An insulating end post including a head member provided with reduced clearance edges at the top and undersides thereof.

1,376,648. ENDLESS-TRACK VEHICLE. EUGÈNE SCHNEIDER, Le Creusot, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Sept. 6, 1917. Serial No. 189,950. 4 Claims. (Cl. 305—1.)



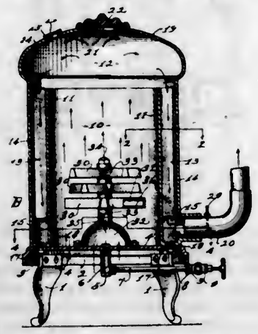
1. In an endless track vehicle having a front wheeled axle, in combination with a pair of trucks carrying endless tracks, a cross-member on which are pivoted the trucks to oscillate in vertical planes parallel to the longitudinal axis of the vehicle, screw-jack elements carrying said cross-member with their complementary elements carried by the underframing of the vehicle, said screw-jack elements being operative to raise and lower the trucks relatively to the underframing, and an auxiliary rear wheeled axle carried by said underframing, said auxiliary wheeled axle operating to carry the load when the trucks are raised from the ground by the screw-jack elements.

1,376,649. TRACTOR-VEHICLE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Sept. 6, 1917, Serial No. 189,950. Divided and this application filed Feb. 28, 1919. Serial No. 279,871. 5 Claims. (Cl. 305—1.)



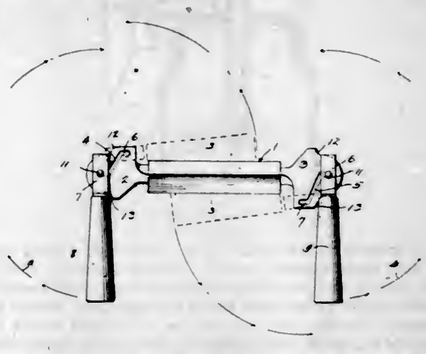
1. In a vehicle having an underframing and a front wheeled axle, the combination of a pair of trucks carrying endless tracks with each truck pivoted approximately midway of its length to the underframing so as to be oscillative thereon, adjustable means to prevent oscillation of the trucks, and a vertically adjustable auxiliary wheeled axle connected to the underframing for raising and lowering the vehicle to move the endless tracks to and from the ground.

1,376,650. GAS HEATING APPLIANCE. VICTOR SJÖSTRÖM, Los Angeles, Calif. Filed Nov. 19, 1918. Serial No. 264,105. 2 Claims. (Cl. 126—85.)



1. A gas heater comprising an integrally cast body having inner and outer walls and a continuous annular passage therebetween at the bottom, a dome having a heat chamber therein, the upper end of said inner wall being spaced from said dome, a combustion chamber being formed interiorly of said inner wall, in communication with said heat chamber, the peripheral portion of said body being subdivided into a plurality of radiating chambers open to the atmosphere extending from said dome to the top of said annular passage, and a plurality of alternating heat passages affording communication between said heat chamber and said annular passage, a vent pipe connected with said annular passage for discharging the products of combustion and a plurality of grilles covering said radiating chambers and attached to said outer wall.

1,376,651. DRAWKNIFE. EMANUEL SMITH, Wallace, Idaho. Filed May 17, 1919, Serial No. 297,859. Renewed Sept. 30, 1920. Serial No. 413,900. 3 Claims. (Cl. 145—28.)



1. A knife of the class described comprising a blade, a forged end carried by said blade having a diagonally disposed slot with parallel extensions at its opposite ends extending in the same direction as the length of the blade, a handle, and a pivot extending through said handle and slot and adapted to enter one or the other of said slot extensions.

1,376,652. PROCESS FOR THE REPRODUCTION OF OIL-PAINTINGS. HENRY P. G. STEEDMAN, London, England, assignor to Verplex Art Company, Inc., a Corporation of New York. Filed Jan. 31, 1920. Serial No. 355,399. 2 Claims. (Cl. 41—25.)

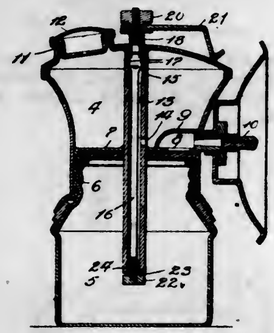
1. The herein described process for reproducing oil paintings, which consists in preparing photographically from an oil painting, a surfce containing irregularities corresponding exactly to the identical canvas grain, brush markings and variations of surface levels of the original paintings so photographically reproduced, applying to said photographic surface a plastic material, in such condition that it will enter all the marks and variations of surface, and forming an exact replica of said surface in said plastic, hardening the plastic material to form an embossing die, and embossing colored prints of said oil painting with said die.

1,376,653. PROCESS OF REPRODUCING OIL-PAINTINGS. HENRY P. G. STEEDMAN, London, England, assignor to Verplex Art Company, Inc., a Corporation of New York. Filed July 2, 1920. Serial No. 393,714. 3 Claims. (Cl. 41—25.)

1. The herein described process for the reproduction of oil paintings, which consists in preparing a colored print in reproduction of an oil painting, providing the back of the print with a reproduction in color of the warp and weft of artists' canvas, embossing said print to impart to the face thereof a reproduction of the brush marks, varying

paint levels, and canvas grain of the original painting to be reproduced, and simultaneously embossing the reproduction of the canvas at the back of the print, to impart to it variations of surface corresponding with the canvas grain.

1,376,654. ACETYLENE-LAMP. MEYER STEIN, Springfield, Ill., assignor of one-half to Philip Stein, Springfield, Ill. Filed Oct. 14, 1919. Serial No. 330,549. 1 Claim. (Cl. 48—4.)



A dropper for acetylene lamps, comprising a tube, open at both ends, a sleeve having a threaded connection with the tube, a stem extended through the tube and sleeve, a valve carried by the stem, means for keying the stem to the sleeve, a handle for rotating the sleeve and a nut for holding the sleeve and stem with their keying means relatively engaged.

1,376,655. TESTING DEVICE. SIDNEY STEVENS, Millinocket, Me. Filed Sept. 7, 1920. Serial No. 408,577. 1 Claim. (Cl. 265—20.)

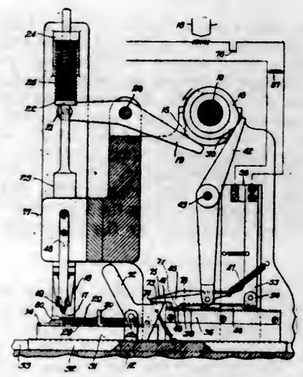


A testing device of the class described comprising an elongated tubular member having one end closed, a second member partially snugly fitting within the bore of the tubular member and insertible therein through the open end of the tubular member, said second named member being of a length less than the tubular member whereby a chamber is provided inwardly of the second named member when applied, and a weighted member loosely arranged within said chamber, said tubular member being provided with an internal shoulder to limit the extent of insertion of the second named member within the tubular member.

1,376,656. ALLOY. COLUMBUS D. STOVALL, Lexington, Ky. Filed June 7, 1920. Serial No. 387,218. 1 Claim. (Cl. 75—1.)

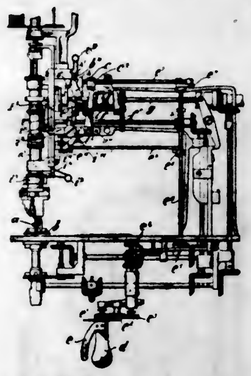
An alloy comprising gold, nickel, copper and platinum in the proportions described.

1,376,657. RESISTANCE WELDING-MACHINE. SIGURD THRONSEN, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 30, 1919. Serial No. 334,469. 5 Claims. (Cl. 219—4.)



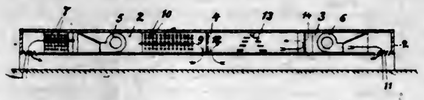
1. In an electrical welding apparatus, a reciprocating electrode, a slidable plate located beneath said electrode, a work holding jig adapted to be secured to said movable plate to constitute a second electrode, and means for moving said movable plate step by step in consonance with the operation of said reciprocating electrode to present an unwelded portion under said electrode after each welding operation thereof.

1,376,658. HOLE-STITCHING MACHINE. HUGO UNGER, Berlin, Germany, assignor to the Firm of Lintz & Eckhardt, Berlin, Germany. Filed Mar. 8, 1918. Serial No. 221,271. 2 Claims. (Cl. 112—66.)



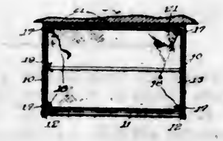
1. In an eyelet stitching machine, a needle bar, mechanism vibrating it, separate mechanism for reciprocating the needle bar, a fabric feeder, a piercer and mechanism for operating the piercer, in combination with mechanism to lock the feeder and simultaneously release the needle bar vibrating mechanism and the piercer operating mechanism and vice versa, whereby a continuous seam may be produced immediately after the formation of an eyelet and vice versa.

1,376,659. DRYING APPARATUS FOR WOOD-PULP AND OTHER MATTERS. JOHAN DANIEL ULLGREN, Stocksund, Sweden. Filed Sept. 25, 1918. Serial No. 255,669. 3 Claims. (Cl. 34—19.)



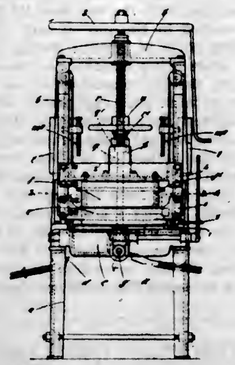
1. In a drying apparatus for wood pulp and other material the combination of a channel through which the matter is moved, said channel being provided at its ends with inlet openings for drying air, and being also provided at intermediate points with outlet openings for the said air oblique deflectors provided in the said inlet openings, and means for exhausting the drying air through the said outlet openings and then forcing the same into the channel through the said inlet openings, substantially as described and for the purpose set forth.

1,376,660. BAG-HOLDER. JOSEPH E. WARD, Chicago, Ill. Filed Mar. 20, 1916. Serial No. 85,237. 2 Claims. (Cl. 83—26.)



1. In a device of the class described, the combination of a bag holder comprising a frame of flat flexible material bent to form three sides of a rectangle, a rigid reinforcing rod extending between the ends of said bent bar and fastened thereto, devices for securing said holder to a vertical surface in horizontal position, and devices carried by the holder for supporting the upper end of a bag.

1,376,661. MACHINE FOR CASTING METALS. CHARLES EDWARD WEST, Higham Hill, Walthamstow, England. Filed Feb. 28, 1918. Serial No. 219,720. 5 Claims. (Cl. 22—71.)

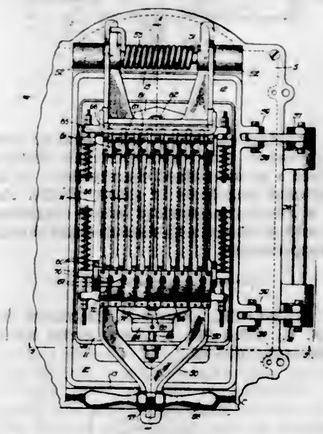


1. A machine for casting metal comprising a pair of superposed dies each slidably mounted in a frame, means for lifting said dies together therein, screwing means for further lifting the top die in said frame and a sprue cutter carried on said screwing means and extending through said dies so as to remove the sprue as the same are lifted together, said frame also supporting a bath in which metal is heated and from which it is injected into the dies by means of a plunger fitted in a cylinder so as to rotate axially as it slides to and fro therein, and apertures connecting said cylinder to the metal bath and the dies respectively.

1,376,662. PROCESS OF OBTAINING ALCOHOL AND POTASSIUM COMPOUNDS. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Jan. 12, 1918. Serial No. 211,624. 14 Claims. (Cl. 23—22.)

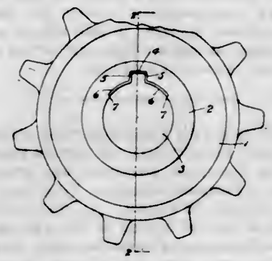
1. The process which comprises fermenting and distilling a liquid containing potassium salts having added thereto hydrofluosilicic acid in an amount sufficient to inhibit undesirable fermentations.

1,376,663. POLISHING-MACHINE. CHARLES A. WICKSTROM, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 28, 1918. Serial No. 225,234. 6 Claims. (Cl. 51—119.)



1. In a machine for polishing flat surfaced articles, the combination with a bench top provided with an opening therefor, of a polishing surface extending through said opening, and operating mechanism for said polishing surface located below said bench top and secured thereto.

1,376,664. PROCESS OF KEYWAY-FORMING IN WHEELS OR THE LIKE AND PRODUCT THEREOF. WARREN W. ANNABLE, Grand Rapids, Mich. Filed May 3, 1920. Serial No. 378,545. 3 Claims. (Cl. 22—203.)

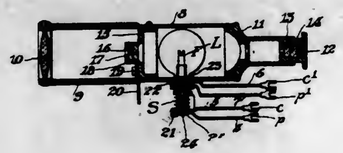


1. The herein described process of forming finished keyways in wheels or the like which consists in forming a sheet metal member with a shape to receive a key and casting metal around the same to form the wheel hub, substantially as described.

1,376,665. PROCESS OF MAKING CATALYZERS. ARTHUR A. BACKHAUS, Baltimore, and FRED B. ARENTS, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 15, 1918. Serial No. 240,226. 7 Claims. (Cl. 23—28.)

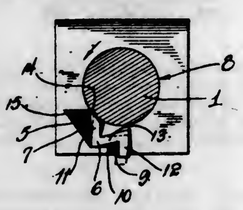
1. The process which comprises forming a salt of a catalytic metal upon a metal body by adding a salt to said body and then depositing a finely divided catalytic metal by precipitating and afterward reducing *in situ* by seriform agents from said salt upon said body.

1,376,666. OPTICAL PYROMETRY. FRANCIS E. BASH, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 27, 1919. Serial No. 333,547. 30 Claims. (Cl. 88—14.)



28. The combination with a lamp filament having an optical pyrometric temperature-electrical characteristic differing from a predetermined characteristic, of a resistance of constant magnitude in shunt relation therewith producing a pyrometric standard whose characteristic is similar to said predetermined characteristic throughout a range of temperatures.

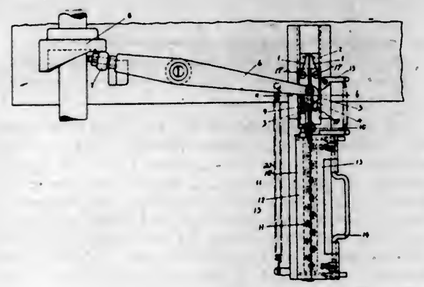
1,376,667. NUT-LOCK. ERLON H. BENJAMIN, Port Jefferson, N. Y. Filed Oct. 5, 1920. Serial No. 414,838. 5 Claims. (Cl. 151—25.)



1. The combination with a bolt and a nut for the bolt, said nut being provided with a recess on one of its faces for establishing communication between the edge of said nut and the threaded aperture in said nut, of a Z-shaped locking dog loosely mounted within said recess and adapted to engage the threads of said bolt.

1,376,668. DEVICE FOR FEEDING THE WIRE IN MACHINES FOR PRODUCTION OF DRESS-FASTENERS. KLAS GUSTAV BLOMBERG, Söderteije, and BENGT AUGUST PETTERSSON, Lidköping, Sweden. Filed Oct. 17, 1919. Serial No. 331,513. 2 Claims. (Cl. 140—130.)

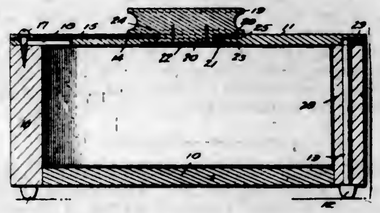
1. In a device for the feeding of the wire in machines used in the manufacture of dress fasteners two jaws (1) for holding the wire, each jaw pivoted on a pin (17) fitted on a slide (2), a rocker lever (6) which gives a reciprocating movement to the said slide, a friction brake (15) acting on the said slide, a pin (4) connected to the rocker lever (6) intended to force the jaws together before the forward movement of the said slide, a knob (9) on the slide, on which the rocker lever strikes on its return movement, a spring (3) for opening the jaws before the



return movement of the slide, a knob (10) which acts as a stop for the return movement of the slide and a device for straightening the wire before it is gripped by the jaws.

1,376,669. [WITHDRAWN.]

1,376,670. CLOSURE FOR BOXES AND OTHER RECEPTACLES. HANS O. N. BOYUM, Wing, N. D. Filed Feb. 12, 1918, Serial No. 216,701. Renewed Sept. 9, 1920. Serial No. 409,290. 1 Claim. (Cl. 46—41.)



The combination with a box; of a lid having a sliding and pivotal connection with the box, said lid having a top recess, a plate seating in the recess, said plate and the lid having abutting parts to prevent sliding movement of the lid, and the plate being movable to release the lid, a slidable handle on the lid extending across to abutting parts and having a latch part engageable with the plate for locking the same, a means engageable with the handle for locking the same against sliding movement to release the plate, feet on the bottom of the box, one of the feet having a stem seating slidably and concealed in the wall of the box, and projecting from the top edge thereof, the under side of the lid having a keeper recess for the projecting end of the stem whereby the lid is held against sliding movement, and coacting means on the box and the lid for preventing pivotal movement thereof, said last mentioned means releasing the lid when the same is slid.

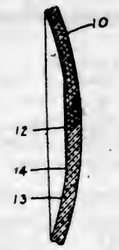
1,376,671. PROCESS OF RECOVERING SALTS FORMED IN THE MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mülhausen, Alsace-Lorraine, France. Filed Sept. 7, 1920. Serial No. 408,690. 2 Claims. (Cl. 23—13.)

2. The process of recovering salts formed in sulfuric acid precipitation baths containing dissolved sulfates used in the manufacture of artificial silk from viscose solutions, comprising lixiviating the threads in sulfuric acid solution to convert the sulfates formed in the precipitating bath into the bisulfate.

1,376,672. MANUFACTURE OF VISCOSE SILK. EMILE BRONNERT, Mülhausen, Alsace-Lorraine, France. Filed Sept. 10, 1920. Serial No. 409,441. 3 Claims. (Cl. 18—54.)

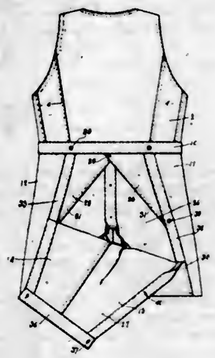
3. A spinning bath for use in the manufacture of viscose silk, containing sulfuric acid and lactic acid, the quantity of lactic acid being proportioned substantially inversely to the age of the viscose to be treated, and the sulfuric acid being proportioned to the fineness of the thread to be produced.

1,376,673. BIFOCAL LENS AND PROCESS FOR MAKING THE SAME. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Twinsight Optical Co., Indianapolis, Ind. Filed Aug. 20, 1920. Serial No. 404,770. 7 Claims. (Cl. 88—54.)



4. A bifocal lens having on one side two visual surfaces with a groove between and separating said surfaces, said surfaces adjacent said groove being on substantially the same level.

1,376,674. UNDERGARMENT. CLINTON A. CAMPBELL, Piqua, Ohio, assignor to The Imperial Underwear Company, Piqua, Ohio, a Corporation of Ohio. Filed Oct. 3, 1919. Serial No. 328,090. 2 Claims. (Cl. 2—144.)



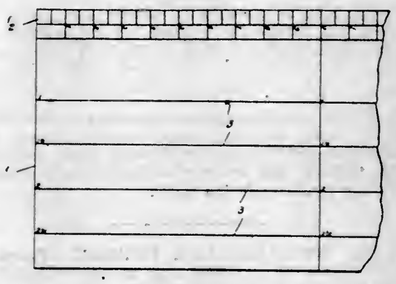
1. As an article of manufacture, a union undergarment comprising a waist portion and drawer portions with suitable front and rear openings having their respective edges reinforced by wide inner facings, a waistband uniting said portions consisting of the material of which the waist and drawer portions are made, oppositely disposed gores secured diagonally across the upper portion of the rear opening at the waist line and extending downwardly and outwardly, a closed crotch portion, a drop seat flap adapted to be unfastened on each side, means to fasten it at each end of its upper edge to the waist portion at the waist line and when unfastened to let it drop downwardly therefrom the full width of its upper edge and to be open relative to the drawers a greater extent on one side than on the other.

1,376,675. AIRCRAFT. CHARLES H. CASPAR, Philadelphia, Pa. Filed May 8, 1919. Serial No. 295,578. 10 Claims. (Cl. 244—14.)



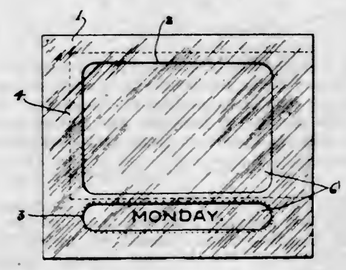
1. In an airship of the character described, a propeller a plurality of superposed planes in the rear of said propeller, a lifting plane in the rear of and above said superposed planes, said propeller being adapted to cause an air current to act on said planes for propelling and lifting the airship, and a deflector arranged beneath the lowermost of the superposed planes for directing a portion of said air current thereagainst.

1,376,676. BLASTING PAPER SHEET. GEORGE S. CLARK, Blackey, Ky. Filed Apr. 9, 1920. Serial No. 372,533. 1 Claim. (Cl. 33—1.)



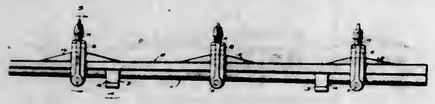
A blasting paper sheet comprising a blank having lines upon its side and a scale arranged along one edge portion of the sheet, the lines being provided with numerals or characters which indicate the diameter of a cylinder when the sheet is rolled and the edge of the sheet at which the graduations are located is secured to the intermediate portion of the sheet at the line, the lines being spaced from that edge of the sheet at which the scale is located at distances equal respectively to the diameters indicated by said numerals multiplied by 3.1416.

1,376,677. LANTERN-SLIDE. JOSEPH F. COUPAL, New York, N. Y. Filed Jan. 31, 1920. Serial No. 355,497. 8 Claims. (Cl. 88—26.)



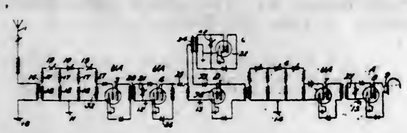
1. A lantern slide frame or holder having one aperture for a removable projection plate, a second aperture, and a second projection plate rigidly attached to the frame and arranged to be projected through the last-named aperture.

1,376,678. CUE-STRAIGHTENER. DOMENICK MIKE CUA, Sandusky, Ohio. Filed Aug. 14, 1920. Serial No. 403,461. 3 Claims. (Cl. 144—309.)



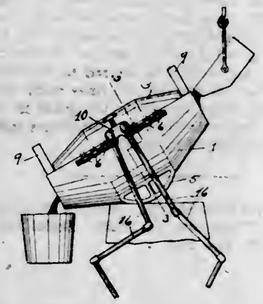
1. The method of straightening cues which comprises wrapping a cue in a sheet of wet material, placing it in a mold and allowing it to remain in said mold until the sheet of material is substantially dry.

1,376,679. RADIO-RECEIVING SYSTEM. AUSTEN M. CURTIS, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1917. Serial No. 195,724. 16 Claims. (Cl. 250—20.)



13. A radio receiving system comprising an antenna, a detector, signal receiving means, means between said antenna and said detector for reducing static, and other means, between said detector and said signal receiving means, for further reducing static.

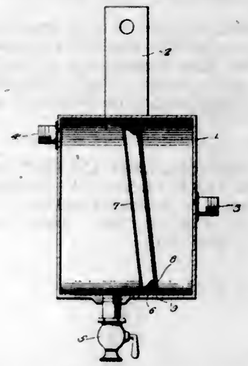
1,376,680. METALLURGICAL FURNACE. FRANK C. CURTIS, Troy, N. Y. Filed Aug. 12, 1918. Serial No. 249,413. 6 Claims. (Cl. 263—33.)



5. A metallurgical furnace having a hearth, and a roof, said furnace being elongated and tiltably mounted upon its shorter axis, and provided at the ends of its longer axis with door-closed openings, and having a fluid-fuel burner directed toward an inner surface of said roof.

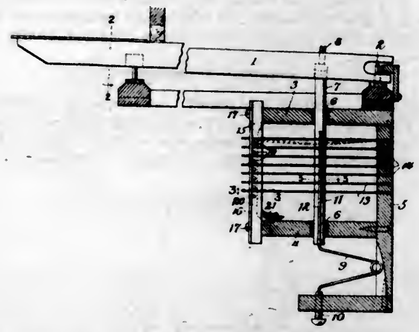
1,376,681. GASOLENE-PURIFIER. HUGH ALLEN DEEKS, Moose Jaw, Saskatchewan, Canada. Filed Dec. 3, 1919. Serial No. 342,049. 2 Claims. (Cl. 210—165.)

2. A device of the character specified comprising a substantially cylindrical casing having an inlet in one end and an outlet in the other, and filtering means comprising a partition of gauze and a partition of chamois arranged between the inlet and the outlet and extending transversely of the casing and spaced apart from each other, a tapering ring having its large end secured transversely of the casing and having the gauze connected with



the said end and the chamois connected with the small end, the partitions inclining toward that end of the casing provided with the inlet at their upper ends.

1,376,682. KEY-COUPLER FOR ORGANS. HAROLD T. DEPUE, Kensington, Md. Filed Apr. 19, 1917. Serial No. 163,230. 6 Claims. (Cl. 84—341.)

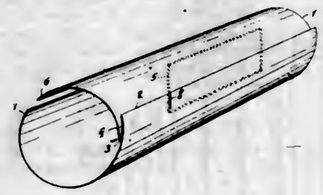


1. An electric organ having keys, and couplers actuated by the keys and comprising a source of electric energy, as many return conductors to the source of energy as there are couplers, a switch in each return conductor, as many contact members under the control of each organ key as there are couplers, and as many other contact members in the path of and individual to the first named contact members for engagement by the latter each time the key controlling said first named contact members, is depressed, whereby the touch of the key is always the same irrespective of the number of couplers in action and the number of couplers put into action is controlled solely by the number of switches in the return circuits that are closed.

1,376,683. CARD-POSITIONING ATTACHMENT FOR TYPEWRITERS. WILLIAM P. DE SAUSSURE, Jr., Englewood Cliffs, N. J. Filed Aug. 18, 1917. Serial No. 186,934. 3 Claims. (Cl. 197—136.)

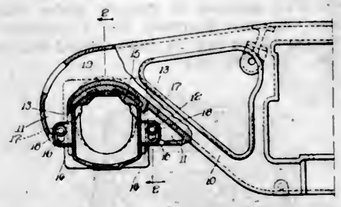
1. An attachment for typewriters comprising a sheet of flexible elastic material bent in opposite directions on parallel lines to provide a recess for receiving a card and positioning the same in operative relation to the typewriter platen, said sheet having portions extending in opposite directions beyond said recess and adapted to

rest upon the typewriter platen, the downwardly extending portion being of sufficient length to be held against the platen by the sheet gripping devices of the typewriter in



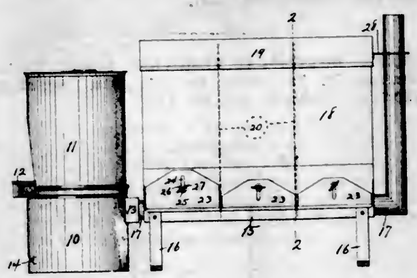
the various operative positions of the sheet, and said sheet being provided with means for securing the same in operative relation to the typewriter platen.

1,376,684. RAILWAY SIDE-FRAME AND JOURNAL-BOX CONNECTION. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 3, 1920. Serial No. 407,831. 2 Claims. (Cl. 105—220.)



1. In combination, in a railway car truck, a side frame having depending pedestal jaws each having an opening, a journal box having laterally extending ears with elongated slots therein to register with said other openings whereby both sides of the journal box may move guidedly in a vertical direction to accommodate the reception of a shim between the frame and the box, and securing means extending through said registering openings and slots and which when in position will permit relative vertical movement between the box and jaws.

1,376,685. POULTRY-FEEDER. W FRANK EASTER Marshalltown, Iowa, assignor to John Alexander McMillan, Marshalltown, Iowa. Filed Feb. 28, 1920. Serial No. 362,150. 1 Claim. (Cl. 119—53.)



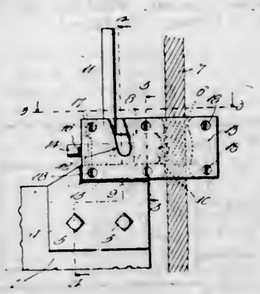
An automatic poultry feeder formed with removable legs, a flue pipe extending through said feeder, a heating chamber detachably secured to said flue pipe, and a fountain detachably mounted on said heating chamber, said fountain being adapted to be removed and used separately, said heating chamber being adapted to be removed, said legs being adapted to be removed and said feeder being adapted to be used at a lower altitude without said legs.

1,376,686. TREE-PROP. LUTHER M. FLECKNER, San Francisco, Calif. Filed Dec. 19, 1919. Serial No. 346,052. 3 Claims. (Cl. 47—31.)



1. A tree prop comprising a crotch, a metal clip having tabs for securing the crotch thereto, and a strap carried by the clip adapted to pass entirely around a pole for securing the crotch thereto, said clip also having other tabs for securing the strap in position.

1,376,687. ELEVATOR-LOCKING DEVICE. ALBERT F. FROUSSARD, St. Louis, Mo. Filed Jan. 5, 1920. Serial No. 349,591. 3 Claims. (Cl. 187—46.)

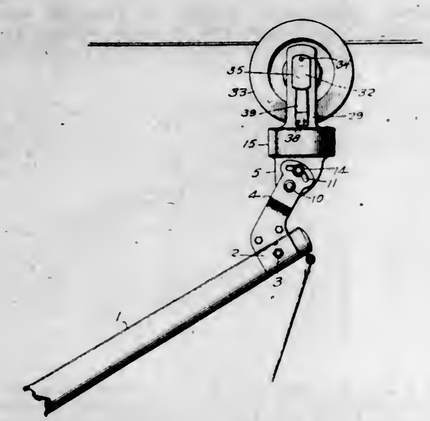


1. A locking device for elevators comprising an attaching member provided with a stationary jaw, a vertical passage for the tiller line adjacent the jaw, a cam slot in its upper face near its opposite end, and a horizontal recess in one side intersecting the vertical passage, a second jaw slidable in said horizontal recess, said second jaw including a head provided with a stem, and a sleeve rotatably mounted on the stem, a handle secured to said sleeve and extending through the cam slot, a face-plate carried by said member, closing said passage and recess and provided with a cam slot coacting with the first slot, and means to retain the sleeve on the stem, said sleeve permitting said second jaw to be adjusted to accommodate different sizes of tiller ropes.

1,376,688. TROLLEY-HARP AND TROLLEY-HEAD THEREFOR. CHARLES T. GILLENWATER and JOHN L. PEDIGO, Bluefield, W. Va. Filed Apr. 7, 1920. Serial No. 372,012. 7 Claims. (Cl. 191—60.)

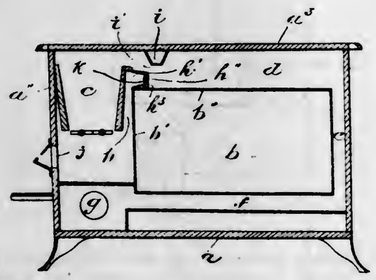
1. In a trolley harp and trolley head therefor, the combination with a trolley pole, of a trolley head comprising a base section and an upper movable section, partially

rockable in a horizontal plane about a vertical axis, the base section being operatively adjustably mounted upon the pole, means for coupling the two sections concentrically together, a trolley wheel operatively mounted



upon the movable section, and means connecting parts of the two sections to permit one section to move relatively to the other, whereby the wheel may accommodate itself to the irregularities of the trolley wire.

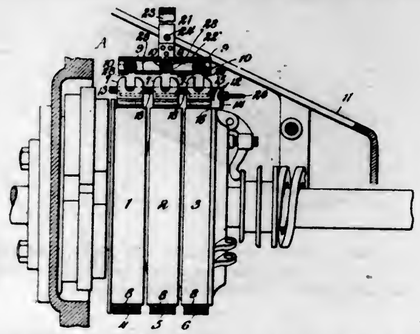
1,376,689. STOVE OR RANGE. ZACHARIAH ADAM HALL, Hespeler, Ontario, Canada. Filed Dec. 20, 1919. Serial No. 348,158. 3 Claims. (Cl. 126—1.)



1. A stove or range comprising a shell having an oven therein, a secondary combustion chamber between the oven top and shell, means for feeding air thereto, a flue between the oven back and shell, and a flue between the oven bottom and shell having a smoke outlet, this being the only egress for the products of combustion, in combination with a fire box between the oven front and shell, and a bridge wall between the fire box and the secondary combustion chamber.

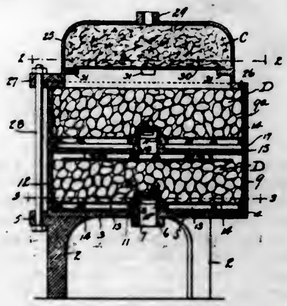
1,376,690. MEANS FOR USE IN INSTALLING TRANSMISSION-BANDS FOR AUTOMOBILES. WILLIAM HARPER, Campbell, Nebr. Filed June 27, 1919. Serial No. 307,191. 8 Claims. (Cl. 29—87.1.)

1. Means for the purpose described, comprising a yoke frame with side legs spaced to receive between them and hold the transmission band lugs within the transmission casing in properly spaced relation on the transmission drums, and a clamp having jaws to embrace the ends of and compress the transmission band springs to an extent



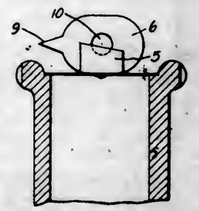
to permit the introduction of the springs between the lugs when the lugs are held by the yoke.

1,376,691. DEHYDRATOR. HARRY BUXTAR HARTMAN, Scottdale, Pa., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1920. Serial No. 353,859. 10 Claims. (Cl. 183—4.)



1. A dehydrator of the class described, including a tubular body having a plurality of transverse partitions provided with central openings, moisture absorbing means arranged in spaced stratas in the body, and baffle means arranged between a strata of the moisture absorbing means and the opening of each partition, the outer edge of said baffle means extending in relatively close proximity to the wall of the tubular body.

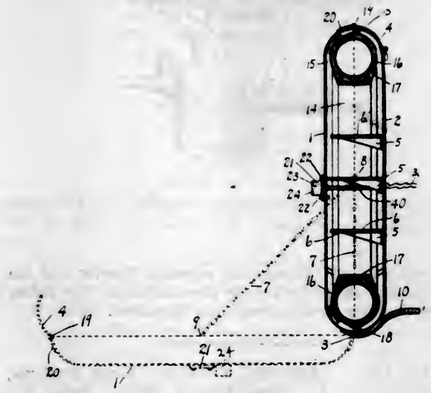
1,376,692. BOTTLE-CAP REMOVER. DODSON HASLUP, Grafton, W. Va. Filed Apr. 17, 1919. Serial No. 290,711. 4 Claims. (Cl. 65—47.)



1. A bottle cap remover formed from a length of metal bent at right angles adjacent its ends and extended in

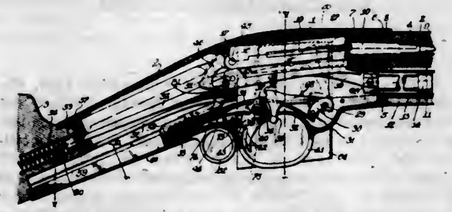
parallel relation, the parallel parts constituting a fore-finger engaging member and a thumb engaging member respectively, and a single bottle cap engaging barb struck from the intermediate part of the metal and extending beneath the same and projecting to the fore-finger engaging member and no farther, the barb being of substantially the same length as the intermediate part, and extending parallel with said part.

1,376,693. AUTOMOBILE CABINET ATTACHMENT. MICHAEL J. HILBERG, Norwood, Ohio. Filed Aug. 11, 1919. Serial No. 316,820. 4 Claims. (Cl. 224—29.)



3. In an automobile cabinet of the character described, a body portion, forming a compartment, one part of said body part capable of being opened and closed and carrying a hood on its outer surface, an extension and electric wires, supported thereon passing through said body portion and a tail light supported at the end of said extension, said tail light passing into the hood, when the body portion is closed.

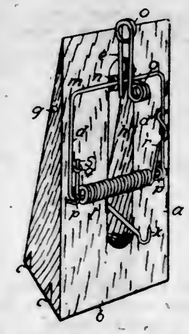
1,376,694. RIFLE. HARRY E. HINES, Detroit, Mich. Filed May 19, 1919. Serial No. 298,017. 16 Claims. (Cl. 42—3.)



1. A rifle comprising a breech piece having a trigger finger piece guard, a barrel having a cartridge chamber, a magazine at the side of said breech piece and closing one side of the trigger finger piece guard, and a reciprocable re-loading member in said breech piece adapted to force a cartridge in a horizontal plane out of said magazine into the cartridge chamber of said barrel.

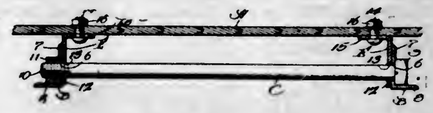
1,376,695. ANIMAL-TRAP. ARTHUR WILLIAM HOARE, Shoreham, England. Filed Dec. 18, 1919. Serial No. 345,763. 1 Claim. (Cl. 43—81.)

An animal trap comprising a vertically disposed block with a slot therethrough, presenting an inclined surface toward the animal to be snared, on the face of which is mounted a spring actuated bridle-piece that is retained in the "set" position by the top part of an oscillatory catch by means of its depending member engaging a trigger carrying a bait hook that projects through said slot, said



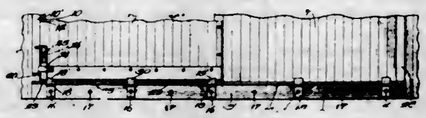
top part and depending member of said oscillatory catch having a resiliency provided in its structure by the interposition of convolutions of wire as an integral part thereof substantially as described.

1,376,696. CAR-LADDER. FRANK JAGER, Chicago, Ill. Filed July 9, 1919. Serial No. 309,577. 2 Claims. (Cl. 228—49.)



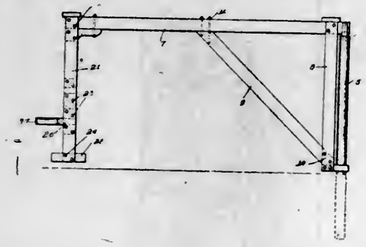
2. In a ladder, the combination of a pair of angle bar stiles each having the inwardly extending flange thereof provided with rung receiving holes, angle bar supporting brackets each having one flange adapted to be bolted to the side of a car, and the other flange extending outwardly from the ace of the car and provided with a rung receiving opening adapted to be alined with one of the rung receiving openings of said stiles, a rung bolt extending through the openings in said stile flanges and in said bracket flanges, and a nut threaded on the outer end of said bolt, the outer flanges of said stiles being so disposed with respect to the rung receiving openings that said nut and the head of said rung bolt are engaged by said flanges respectively when the stiles are adjacent the ends of the bolts, whereby said bolts and nuts are held against accidental rotative movement.

1,376,697. CAR-DOOR. FRANK JAGER, Chicago, Ill. Filed Dec. 31, 1919. Serial No. 348,696. 3 Claims. (Cl. 20—22.)



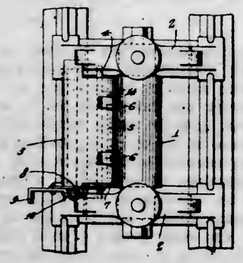
1. In a car construction, the combination of a track, a door slidably supported upon said track, and a vertically movable bolt slidably mounted on said door with its lower end normally resting on said track, said track being provided in the path of travel of said bolt with spaced recesses adapted to receive the end of said bolt to lock the door against movement and with spaced-upwardly projecting abutments adapted to be engaged by said bolt to limit the sliding movement of said door.

1,376,698. LAWN-SWING. WILLIAM N. JAY, Cleveland, Ohio. Filed Aug. 23, 1920. Serial No. 405,286. 1 Claim. (Cl. 46—27.)



A swing comprising a vertical supporting post, a horizontally disposed arm movable around the supporting post, a pair of arms carried adjacent to the outer extremity of the horizontally disposed arm, the latter arms having their lower extremities disposed in spaced relation over the ground surface in which the swing operates, blocks disposed in spaced relation with each other, between the latter arms, and a seat portion having an extension adapted to be positioned between the blocks for adjustably connecting the seat portion and arms.

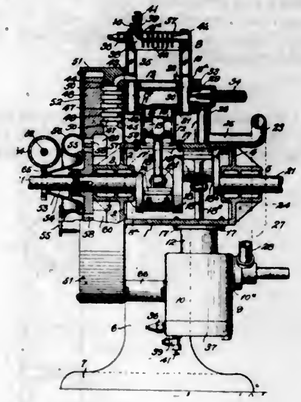
1,376,699. DEVICE FOR ROLLING SHEET METAL WITH GROOVED BARS. WILLIAM L. JENKINS, Niles, Ohio. Filed Oct. 23, 1919. Serial No. 332,651. 2 Claims. (Cl. 80—1.)



2. In a device of the class described, the combination with a rolling mill of a foreplate and a bending device attached thereto, and means for operating said device substantially as described for the purpose set forth.

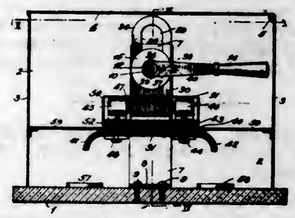
1,376,700. EXPLOSIVE-ENGINE. WILLIAM G. JOHNSTON, Philadelphia, Pa., assignor to Timothy O'Leary, Philadelphia, Pa. Filed June 21, 1917, Serial No. 176,083. Renewed Sept. 24, 1920. Serial No. 412,624. 2 Claims. (Cl. 60—13.)

1. The combination with the main shaft and its bearings, of a relatively flat, radially-expanded turbine engine having, first, a radially-arranged stationary plate carrying a set of turbine vanes and formed with axially-directed inlet air-passages near said shaft, and, second, a radially-expanded rotary plate carrying turbine vanes and provided at points near the shaft with final gas-exhaust passages, the working paths among the vanes of the turbine extending from points radially remote from the shaft to points relatively near it, a series of reciprocating pistons and pitmen positioned in transverse planes close to those of the stationary plate of said turbine engine, and cylinders respectively holding said pistons and having their exhaust passages axially opposite and close to the outer ends of the aforesaid working paths, and constructed and arranged at their inner ends to permit the



free inflow of air through said passages directly into the path of the gases in the turbine engine at the points where they are finally exhausting therefrom.

1,376,701. ELECTRIC SWITCH. LOUIS KELLNER, Brooklyn, N. Y. Filed Dec. 3, 1917. Serial No. 205,140. 15 Claims. (Cl. 200—78.)

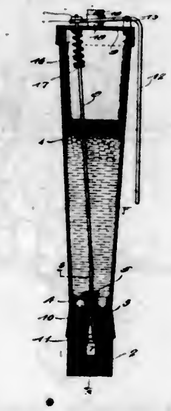


1. In an electric switch of the snap-action type, the combination of terminals, a support movable toward and from the terminals, terminal-bridging means mounted on said support, a rack held to said support, a pinion meshing with said rack, a motor spring for rotating said pinion in either direction, a swinging switch handle, means controlled by said handle for placing said spring under tension when said handle is moved in either direction, a cam adapted to be rotated by said handle, means for holding said pinion against rotation during the power-storing movement of said handle, and means actuated by said cam at the conclusion of successive power storing movements of the handle for operating said holding means to release said pinion.

1,376,702. FOUNTAIN PAINT-BRUSH. MILES M. KELLOGG, Encinitas, Calif. Filed June 24, 1920. Serial No. 391,480. 3 Claims. (Cl. 15—49.)

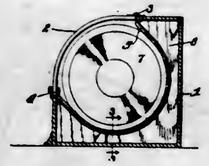
1. A fountain-brush comprising a hollow handle to contain a liquid to be dispensed, a brush-head connected to one end of the handle, a tube embedded in the brush-head, the inner end thereof extending beyond the head into the interior of the handle, forming a valve seat, a

valve coöperative with said seat, a plunger rod carried by the valve and extending into the tube, the free end



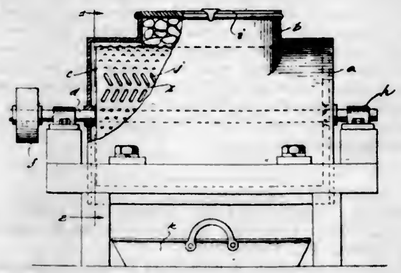
thereof being enlarged to engage the inner wall of the tube to clean the same, and means for actuating the valve.

1,376,703. CONTAINER FOR TALKING-MACHINE RECORDS. CHARLES A. KIMMEL, St. Louis, Mo. Filed Sept. 2, 1919. Serial No. 321,002. 1 Claim. (Cl. 211—16.)



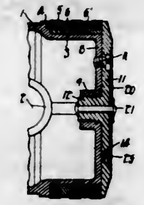
A container for talking-machine records, comprising a corrugated sheet of material that is bent to a U-shape in cross-section, to provide hollow supporting walls that extend only partially around the edges of the records; vertical frame-plates having U-shaped recesses formed in them, and in which the said corrugated sheet is seated; and means for fastening said corrugated sheet in said U-shaped recesses of said frame-plates.

1,376,704. VEGETABLE-GRATER. PAUL KOINZER, Mount Clemens, Mich. Filed Feb. 2, 1921. Serial No. 441,729. 4 Claims. (Cl. 146—9.)



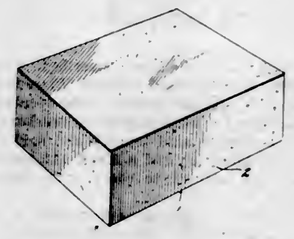
2. In a machine for grating vegetables, the combination of a housing, a drum secured therein provided on its periphery with a plurality of struck-out abrading points forming openings into the interior of the drum and having also a plurality of obliquely-disposed overlapping openings for discharging the accumulated material from the interior of the drum.

1,376,705. PISTON. EMIL KOTTUSCH, Detroit, Mich. Filed July 19, 1918. Serial No. 245,595. 5 Claims. (Cl. 74—108.)



1. In combination with a hollow piston body and a supplemental head overlapping said body to form one wall of a groove or a piston ring, a ring in said groove, a screw passing through the head and threaded into the body, and rotatable means carried by the head for covering said screw and preventing it from working loose.

1,376,706. BRICK-COAL. RUDOLPH ALBRECHT KRATOCHWILL, Bristol, Va. Filed May 24, 1920. Serial No. 383,827. 1 Claim. (Cl. 44—41.)



A coal brick consisting of dry coal dust held together by a binder of gum arabic and having an external coating of varnish.

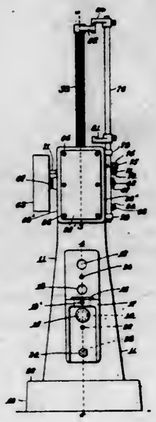
1,376,707. CARBURETER. FRANCIS E. LA FEHR, EDGAR M. HITCHCOCK, and HERBERT V. LEAHY, Los Angeles, Calif. Filed Aug. 21, 1917. Serial No. 187,358. Renewed Oct. 5, 1920. Serial No. 414,830. 8 Claims. (Cl. 261—50.)



3. In combination, a chamber having an inlet and an outlet, a fuel passage in said chamber, a cone-shaped hol-

low distributer at the upper end of the fuel passage provided with radially extending ducts, said distributer being provided in its periphery with annular grooves communicating with the outer ends of the ducts, and a hollow plunger surrounding the distributer and adapted to float in the chamber when suction is applied to the chamber above the plunger.

1,376,708. BROACHING-MACHINE. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed Oct. 29, 1919. Serial No. 335,978. 19 Claims. (Cl. 90—33.)



1. In a machine of the class described, a framework provided with a cylindrical opening therethrough and threaded holes on opposite sides of said opening at equal distance therefrom; a work-supporting bracket; a headed bolt extending through said bracket and said cylindrical opening; a nut therefor; and a screw extending through said bracket and adapted to coact with either of said threaded holes.

6. In a machine of the class described, a framework having two non-revoluble alined bearings; a revoluble tubular member in one bearing having a depression in one end; a non-revoluble tool-supporting screw in the other bearing; means for rotating said tubular member; and a nut for said screw provided with a lug positioned in said depression and adapted to be rotated by said tubular member.

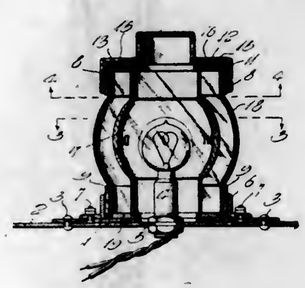
1,376,709. SPLINE-FINISHING BROACH. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed Jan. 27, 1920. Serial No. 356,050. 10 Claims. (Cl. 90—33.)



1. A broaching tool provided with a plurality of spline-cutting teeth and having a reduced shank at the outer end thereof; and a non-revoluble member, surrounding said shank, provided with ribs adapted to project into the splines cut into the work and having cutting teeth between said ribs.

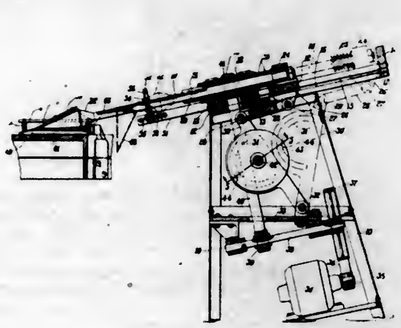
1,376,710. DIRECTION-SIGNAL FOR AUTOMOBILES. JOHN LAW, Portland, Oreg., assignor of one-half to Bernard H. Kelly, Portland, Oreg. Filed July 1, 1920. Serial No. 393,368. 5 Claims. (Cl. 40—77.)

1. A signal comprising a base including an internally threaded collar, a skeleton frame having a threaded neck at its lower end secured in the collar, a turning head rotatably connected with the upper end of the skeleton



frame, inner and outer globes positioned in the skeleton frame and turning with the turning head, and a lamp holding element positioned within the inner globe.

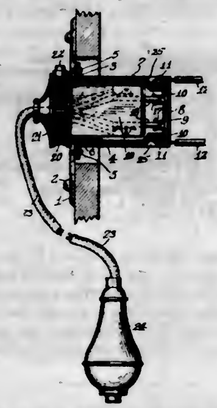
1,376,711. PASTRY-FORMING DEVICE. DANIEL B. LEVY, New York, N. Y., assignor to Uneeda Cone Co., New York, N. Y. Filed Aug. 21, 1920. Serial No. 405,052. 16 Claims. (Cl. 107—58.)



1. In a pastry-forming device, in combination, a revoluble sleeve, means for revolving the sleeve, a shaft within the sleeve, means whereby the shaft may have a longitudinal movement through the sleeve, means for moving the shaft through the sleeve, a shaping member upon one end of the shaft, a hollow shaping member capable of receiving the shaft shaping member, means for introducing baked dough between the two shaping members, means for withdrawing the shaft shaping member carrying the dough form and means for freeing the dough form from the shaping member.

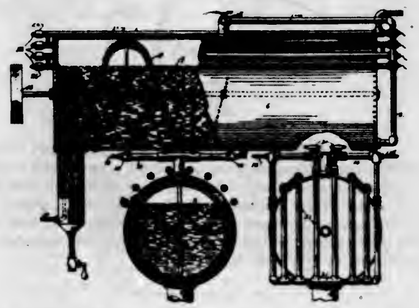
1,376,712. WALL-SOCKET. ERNEST G. LIEBOLD, Detroit, Mich. Filed Oct. 11, 1918. Serial No. 257,737. 2 Claims. (Cl. 173—330.)

1. In a call system, a wall plate having an opening, a socket carried by said wall plate and communicating with the opening thereof, contact members set in the outer walls of said socket at the inner end thereof and extending into said socket and adapted for an electric circuit including a signal lamp and an annunciator of the call system, and a detachable plug extending through said



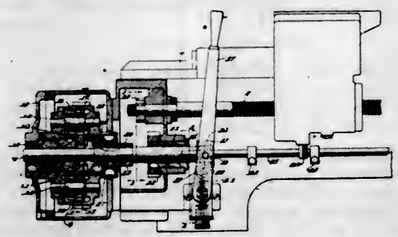
wall plate into said socket and having contact members adapted to engage the contact members of said socket.

1,376,713. PROCESS FOR PRODUCING MOTOR-FUEL. JOHN R. MCCABE, Wichita, Kans. Filed Oct. 27, 1919. Serial No. 333,432. 4 Claims. (Cl. 204—5.)



1. The method of producing motor fuel from hydrocarbon oils consisting in: heating hydrocarbon oils, passing the resultant vapors through metal tubes, in which tubes the vapors are subjected to high frequency electric discharges which pass transversely through said tubes.

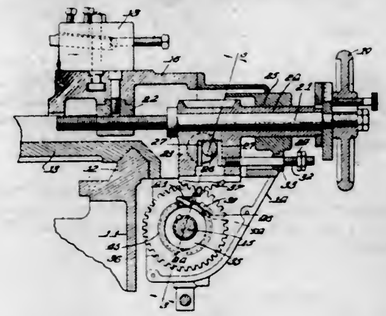
1,376,714. CARRIAGE FEED AND STOP MECHANISM. JUDSON H. MANSFIELD, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a Corporation of Illinois. Filed May 14, 1920. Serial No. 381,430. 8 Claims. (Cl. 82—26.)



1. The combination with a tool carriage and a feed screw therefor, of a planetary gearing, a shaft co-axial with said gearing and carrying a fixed clutch element

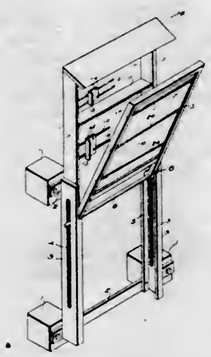
adapted by axial movement of the shaft to engage and disengage with either the driving or driven element of said gearing, a permanent driving connection between said clutch shaft and the feed screw, and means actuated by travel of the carriage for shifting said clutch shaft axially.

1,376,715. TOOL-CARRIER FEED. JUDSON H. MANSFIELD, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a Corporation of Illinois. Filed May 14, 1920. Serial No. 381,433. 28 Claims. (Cl. 82—24.)



1. The combination with a tool carriage and feed mechanism therefor, of a cross tool slide on the carriage, and means operated by said carriage driving means for feeding said tool slide with respect to the work piece, including a cam for feeding the tool slide to a precision depth limit.

1,376,716. CARD-HOLDER. ADDISON B. MARSHEL, Kansas City, Kans. Filed June 7, 1920. Serial No. 387,222. 3 Claims. (Cl. 40—16.)

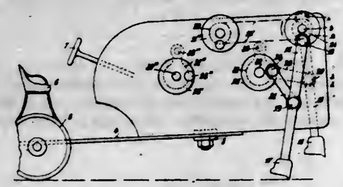


3. A card holder comprising a pair of spaced guides having slots therein, flanges formed on the sides of said guides, a frame slidably mounted in said guides, a transverse rod carried by said frame and entering said slots, and a cover for said frame, said cover being hingedly mounted on said rod, the ends of said flanges being cut away to permit operation of the cover.

1,376,717. MOTOR-TRACTOR WITH PROPULSIVE LEVERS. NESTOR MAUGER, Paris, France, assignor to Société Auxiliaire d'Exploitations Industrielles, Paris, France. Filed Mar. 19, 1919. Serial No. 283,658. 2 Claims. (Cl. 180—8.)

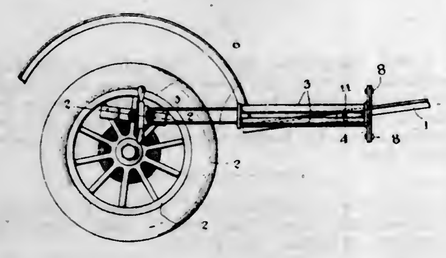
1. In an automobile tractor, the combination of a chassis and straight propelling levers, with a link for each lever, one end of said link being journaled at the upper ex-

tremity of the lever and the other end journaled on said chassis, each of said levers being provided with a bearing on its middle portion, a crank shaft journaled transversely



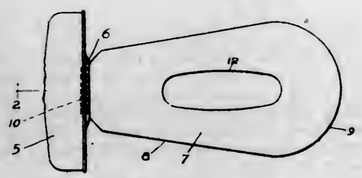
on said chassis and having a crank for each of said levers engaging in the corresponding lever bearing, and means for revolving said crank shaft for the purpose of actuating the propelling levers.

1,376,718. POWER ATTACHMENT FOR AUTOMOBILE HAND-PUMPS. CHARLES CLYDE MOHNEY, Clintonville, Pa. Filed Sept. 14, 1920. Serial No. 410,151. 6 Claims. (Cl. 230—27.)



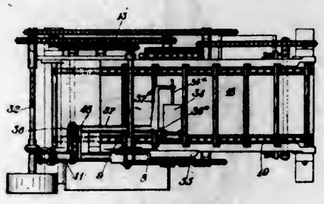
1. In combination with a pump having means for connecting the foot plate thereof to the running board of a motor vehicle, with a lost motion and swinging connection, and means for rotatably connecting the handle of the pump to the wheel eccentrically thereof, said first named means comprising an angle bracket having a portion connected with the foot plate, and a portion extending longitudinally of the pump, and longitudinally slotted, an angle pin for connection with a motor vehicle, and adapted to engage the slot slidably, and means for varying the length of this slot.

1,376,719. WHISPER-PHONE. WILLIAM MOLLOY, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,938. 2 Claims. (Cl. 179—188.)



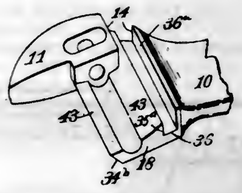
1. A device of the class described, consisting of an elongated and tapered hollow body member having between its ends a longitudinally extended elongated opening and provided at one of its ends with an outlet opening and means to attach it to a telephone transmitter, said member having its end opposite said outlet enlarged and substantially semi-spherical in shape with its concave surface presented toward said outlet.

1,376,720. MACHINE FOR BUTTING EARS OF CORN. WILLIAM W. MORRAL, Morral, Ohio. Filed Feb. 25, 1914. Serial No. 821,066. 4 Claims. (Cl. 146—11.)



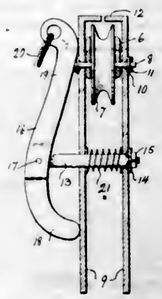
1. In a machine for butting ears of corn, the combination with a carrier for the ears, butt removing means, a guide leading to the butt removing means, yielding means independent of the carrier for engaging the ear with a rubbing contact to move the same toward the guide and means for reciprocating said ear engaging means.

1,376,721. SCREW-WRENCH. CHARLES F. MUELLER, Elizabeth, N. J. Filed Apr. 18, 1919. Serial No. 290,916. 14 Claims. (Cl. 81—165.)



1. A wrench having a fixed jaw, a movable jaw, a single guiding connection between said jaws, comprising a shank extending transversely from the base of one of said jaws and a transverse guideway at the base of the other, and means located between the working portions of said jaws and said guiding connection for adjusting the movable jaw relatively to the fixed jaw.

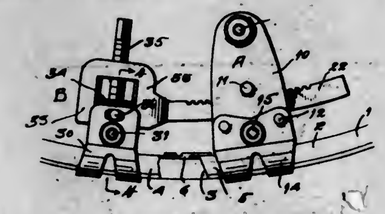
1,376,722. TROLLEY-WHEEL GUARD. JOHN A. MURRAY and ROBERT S. BUCHANAN, Patton, Pa. Filed Nov. 9, 1918. Serial No. 261,883. 1 Claim. (Cl. 191—80.)



A device of the character described comprising a trolley wheel harp, a pair of guard members movably mounted on said harp, the intermediate portion of said members having registering openings, a shaft mounted in said openings, one end of the shaft being operatively connected to one of said members, the intermediate portion of the shaft extending through the opposite member, a spring surrounding said end and intermediate portions of the shaft between said members, a lever having its ends extended in

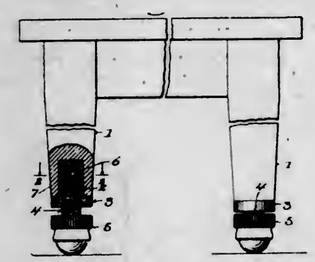
opposite directions and in angular relation to the lever, said lever being pivoted adjacent one of its ends to the opposite end of said shaft in spaced relation to the adjacent guard member, said guard member being constantly urged into engagement with the angularly extended end portions of said lever through the medium of the spring.

1,376,723. TIRE-RIM TOOL. STEPHEN W. NELDNER, Milwaukee, Wis. Filed May 13, 1920. Serial No. 380,981. 3 Claims. (Cl. 157—1.)



1. A rim tool comprising a pair of rim engaging members and a connecting bar, said bar being movable vertically upon one of said rim engaging members and movable longitudinally within the other.

1,376,724. CASTER. THERESA M. NELDNER, Milwaukee, Wis. Filed June 1, 1920. Serial No. 385,648. 1 Claim. (Cl. 16—164.)



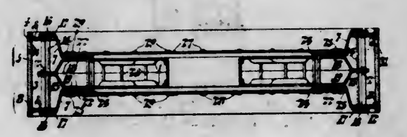
A caster comprising an internally threaded sleeve adapted to be fitted in an article of furniture or the like, a floor engaging or similar surface engaging caster head, a threaded shank extended from the head and threadedly engageable in said sleeve, said shank being transversely apertured, and a section of an expansile coil spring disposed in said aperture and having its severed ends extended beyond the ends of the latter before assembly of the shank in the sleeve, said ends of the coil spring being frictionally engaged in the threads of the sleeve when said shank is disposed therein whereby said spring will be alternately expanded and contracted during rotation of the shank, and the shank and the caster head will be locked against inadvertent turning with respect to the sleeve.

1,376,725. LABEL-HOLDER. ENOCH OHNSTRAND, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed May 4, 1920. Serial No. 378,828. 3 Claims. (Cl. 40—10.)



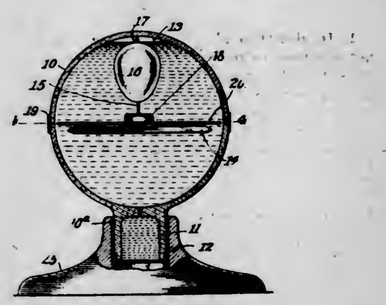
1. The combination of a shelf-board, having a kerf cut in the body thereof on the underside, parallel with, and near the front edge of the shelf board, and a label plate adapted to lie against the front edge of the shelf board and a securing clip, attached to the label plate and comprising a flat portion adapted to lie against the bottom of the shelf board between the front edge thereof and said kerf, and a resilient tongue adapted to enter the said kerf and frictionally engage the side thereof toward the front of the shelf board by resiliently pinching against said front side of said kerf.

1,376,726. SPRING-WHEEL. ARTHUR E. PAIGE, Philadelphia, Pa. Filed July 31, 1915. Serial No. 42,882. 10 Claims. (Cl. 152—38.)



1. In a spring wheel, the combination with a hub member including two axially opposed concavoconvex parts having contiguous perimetral flanges extending transversely to the wheel axis; of a circumferential series of spring members parallel with the wheel axis and tightly held at their middles in said flanges; means connecting said parts, independently of said springs, including members extending through said flanges, radially exterior to said spring members; and a rim loosely holding the ends of said spring members.

1,376,727. DIRECTION-INDICATOR FOR AIR AND MARINE CRAFT. FLORENCE LYON PENTZ and JAMES BOLTON PENTZ, New York, N. Y. Filed Feb. 23, 1918. Serial No. 218,646. 3 Claims. (Cl. 33—206.)

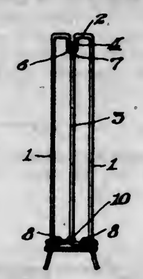


1. In a direction-indicator or compass for air-craft, a hollow globe filled with a suitable liquid, a floating carrier therein, and a magnetic needle supported solely by the floating carrier and entirely unconnected with the globe, whereby the globe has unlimited freedom of rotation in every direction relative to the needle and at all times leaves the needle entirely free to maintain its normal position.

1,376,728. HAIR-CURLER. ALLIE B. POWELL, Philadelphia, Pa. Filed Oct. 31, 1919. Serial No. 334,693. 2 Claims. (Cl. 132—41.)

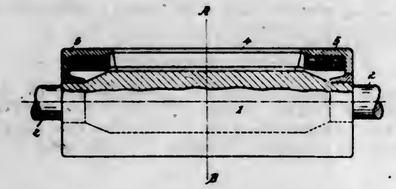
1. A hair curler comprising a U-shaped member consisting of wire, the transverse portion of which connecting the sides of said member being provided with a notch, the sides of which are arranged substantially at right angles to the bottom thereof, a central coöperating member consisting of wire having a hook in engagement with the bottom of said notch, and the outer swinging

end of said central coöperating member being provided with hooks situated laterally thereof, said hooks being formed by bending the wire of said central portion, the



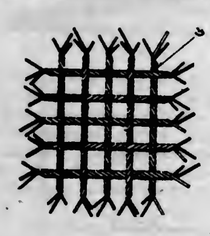
ends or bills of said portion extending inwardly toward the longitudinal center of the said curler and the said hooks being adapted to engage the outer free ends of the said sides.

1,376,729. HIGH-SPEED REVOLVING FIELD-MAGNET. REINHOLD RÜDENBERG, Charlottenburg, near Berlin, Germany, assignor to Siemens Schuckert-Werke G. M. B. H., Berlin, Germany, a Corporation of Germany. Filed Sept. 30, 1915. Serial No. 53,343. 2 Claims. (Cl. 171—206.)



1. In electrical alternators in combination a field magnet designed to revolve at an extraordinarily high speed, slots in said magnet, conductors placed into said slots, and holding devices for said conductors adapted to take up the entire centrifugal strain exerted upon said conductors while the magnet revolves, the product of density and specific resistance of the conductor material being smaller than that of copper.

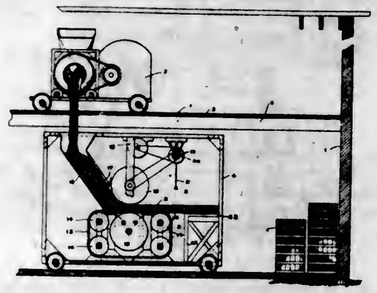
1,376,730. METALLIC YARN. CHRISTIAN RUOFF and JOSEPH NITSCHMAN, Newark, N. J. Filed Nov. 10, 1917. Serial No. 201,281. 7 Claims. (Cl. 28—5.)



5. A metallic yarn spun from metallic filaments and comprising a plurality of metallic filaments having flat sides and sheared from sheet metal.

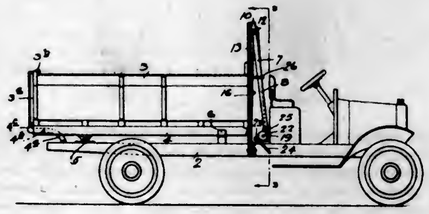
1,376,731. BLOCK OR BRICK MAKING MACHINE. RICHARD RYAN, Cleveland, Ohio. Filed Sept. 12, 1919. Serial No. 323,309. 1 Claim. (Cl. 25—2.)

The combination with a portable brick-making machine of the character described having a suitable material feeding device associated therewith, of a downwardly inclined feeding spout in the brickmaking machine, two vertically spaced feeding rollers adjacent the discharge end of the spout, a trough intermediate of the rollers into which the spout discharges, an endless belt intermediate of the rollers forming a portion of the bottom of the trough and



onto which the material is discharged from the spout, means for intermittently operating the brick making machine, means at the discharge end of the spout and adjacent the feed rollers for regulating the amount of material fed into the trough, and means at the opposite end of the trough for forming the contents thereof into a plurality of individual parts, substantially as described.

1,376,732. HOISTING MECHANISM FOR DUMPING-VEHICLES. WILLIAM SANDERSON, Pittsburgh, Pa. Filed Oct. 12, 1917. Serial No. 196,291. 3 Claims. (Cl. 298—19.)

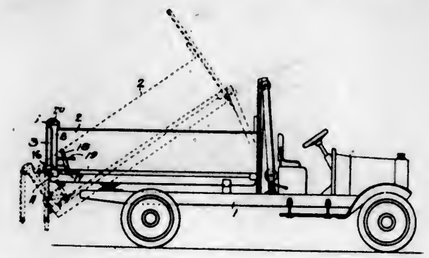


1. In a dumping vehicle, the combination with the frame of the vehicle, of a body pivoted to the frame, and means for moving the body on its pivot to dumping position, said means comprising a derrick pivoted to the frame, and including cable winding mechanism, a rail disposed vertically on the center of the end of the body, a guide wheel on the derrick engaging said rail adapted to limit the pivotal movement of the derrick and to prevent lateral movement of the body, said rail terminating at its lower end in a yoke, a sheave in the yoke, and a cable engaging the sheave and the winding mechanism.

1,376,733. END-GATE FOR VEHICLES. WILLIAM SANDERSON, Pittsburgh, Pa., assignor to Simplex Manufacturing Company, Conneautville, Pa., a Corporation of Delaware. Filed Jan. 3, 1918. Serial No. 210,199. 2 Claims. (Cl. 296—51.)

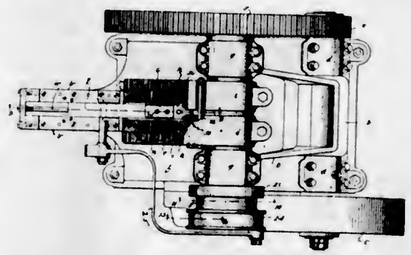
1. The combination with a vehicle body having its rear end provided with fixed rearwardly opening sockets at top and bottom, of a removable freely swinging end gate having fixed pivots at the top and bottom thereof adapted

to seat without shifting in said sockets to form hinge connections to the body, whereby the gate may be swung from



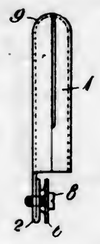
either its upper or lower edge and the fixed pivots on the swinging end of the gate are maintained in radial registering position with their respective sockets.

1,376,734. ROTARY BROACHING-MACHINE. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Jan. 2, 1920. Serial No. 348,966. 24 Claims. (Cl. 90—33.)



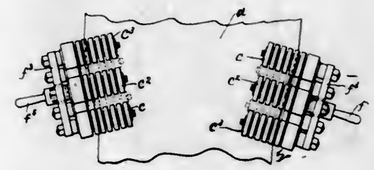
1. A rotary broaching machine, having in combination, a rotating blade carrier, broaching blades projecting therefrom in the direction of the axis of rotation, and means for supporting the work in the path of the rotating blades and holding the same stationary during the operation of the blades thereon, said means operable to bring the work forward into the path of the blades and backward out of the path of the blades.

1,376,735. CONTACT-PIN FOR CONNECTING-PLUGS AND PROCESS FOR THE MANUFACTURE THEREOF. OTTO STÄLHANE and OLOF OSKAR KRING, Djursholm, Sweden. Filed July 8, 1919. Serial No. 309,441. 1 Claim. (Cl. 173—332.)



Contact pins for electrical connecting plugs, made of metal plate, the part of the pin which is intended to be inserted into the contact socket being divided by longitudinal slits in its longitudinal direction into a number of fingerlike parts integral with each other and essentially of a crescent-shaped cross section, so that the pin will obtain substantially a cylindrical form with a high degree of elasticity in a radial direction.

1,376,736. APPARATUS FOR STRETCHING FABRICS. JOHN THORNBER, Bradford, England, assignor to Bradford Dyers Association Limited, Bradford, England. Filed Mar. 25, 1919. Serial No. 285,015. 4 Claims. (Cl. 26—18.)

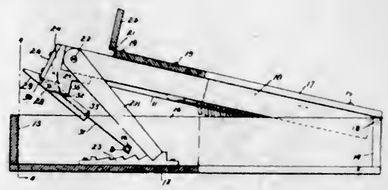


3. In apparatus for stretching and guiding fabrics, a plurality of rollers, spindles for said rollers, a rotary disk for the reception of two of said spindles, a bracket upon which said rotary disk is mounted, said bracket having slots to receive two of the spindles, a support for said bracket, a pivotal spindle upon said support, a worm wheel upon said support and a worm wheel upon the disk carrying the spindles of the rollers, worms for operating said worm wheels, appropriate bearings for supporting said worms, and a screw upon which the said bearings are mounted.

1,376,737. PAPER MATERIAL COATED WITH LEAF METAL. FRITZ TSCHEIKE, Fuerth, Bavaria, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 6, 1917. Serial No. 173,153. 2 Claims. (Cl. 154—47.)

1. An article of manufacture consisting of a layer of paper united with a layer of leaf-metal by a layer of adhesive substance arriving at its maximum adhesiveness at a raised temperature and another layer of adhesive substance also arriving at its maximum stickiness under operating conditions such as by heat or by a solvent, said last named layer being of higher stickiness and facing said leaf-metal.

1,376,738. INVERTED KEYED ZITHER. HARRIE A. BALLARD, Boston, Mass., assignor to The Phonoharp Company, East Boston, Mass., a Corporation of Maine. Filed Feb. 24, 1917. Serial No. 150,686. 4 Claims. (Cl. 84—324.)



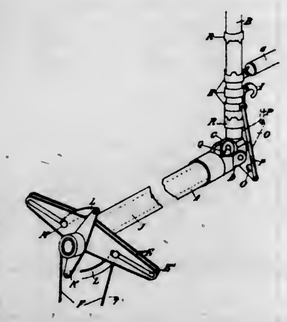
1. The combination of a zither having the strings below the body thereof; and an attachment therefor, comprising end blocks secured to the front end of the zither, a pivot bar supported in said end blocks below and crosswise of the strings, a plurality of keys pivoted on said pivot bar between their ends and having their front ends projecting forwardly from the front end of the zither, and spring hammers carried by the rear ends of said keys, said hammers normally projecting downwardly at an inclination to said strings.

1,376,739. AUTOMOBILE-TIRE HOLDER. HAROLD M. BOGNES, Dayton, Ohio. Filed May 24, 1920. Serial No. 383,743. 2 Claims. (Cl. 224—29.)



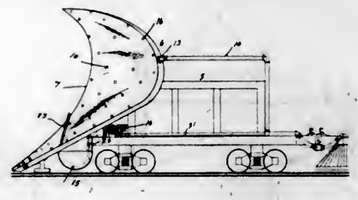
1. A tire holder adapted to be mounted on the side of an automobile, comprising an upper receiver, and a lower receiver consisting of two saddles, said upper and lower receivers being integrally united by a brace which extends from the outer end of the upper receiver to the inner side of the innermost lower saddle or receiver, the upper receiver being attachable at its inner end to the side of the automobile, and the lower receiver being attachable to the running board of the automobile, the upper receiver having means for locking the tires in the receiver, and the lower receiver having means for inclosing the lower portions of the tires in said saddle.

1,376,740. CONTROL OF THE AILERONS AND ELEVATORS OF AIRCRAFT. HAROLD BOLAS, Clifton, Bristol, England, assignor to George Geach Parnall, Park Row, Bristol, England. Filed Jan. 6, 1921. Serial No. 435,433. 5 Claims. (Cl. 244—29.)



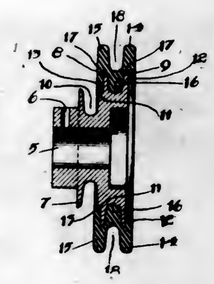
1. In an aircraft control in which the angular position of the ailerons relative to the main plane and the angular position of the elevators relative to the tail plane can be varied either simultaneously or independently from a single hand-lever, means on the hand-lever for varying the extent of the movement imparted to the ailerons and elevators for a given movement of the hand-lever.

1,376,741. STEAM-HEATED SNOWPLOW. JAMES L. BOYLE, Goodland, Kans. Filed May 10, 1919. Serial No. 296,258. 1 Claim. (Cl. 37—60.)



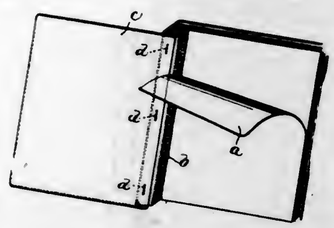
A snow plow, composed of plates spaced and connected by staybolts, forming a chamber, the staybolts being provided with ducts to allow the steam to escape from the chamber to the upper and outer surface of the plow.

1,376,742. ATTACHMENT FOR PULLEYS. IRA A. BURNETT, Chicago, Ill. Filed June 7, 1920. Serial No. 387,112. 4 Claims. (Cl. 64—45.)



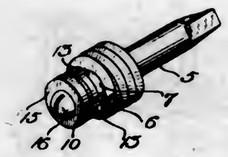
1. An attachment for pulleys consisting of a relatively stiff annular resilient member having in its inner periphery a pair of spaced annular grooves for the reception of the flanges of a pulley and on its outer periphery a pair of spaced annular flanges providing there-between an annular groove, for the reception and operation of a belt.

1,376,743. GLASS-TREATING PACKET. ALBERT L. CLAPP, Marblehead, Mass. Filed Oct. 2, 1919. Serial No. 328,080. 2 Claims. (Cl. 281—15.)



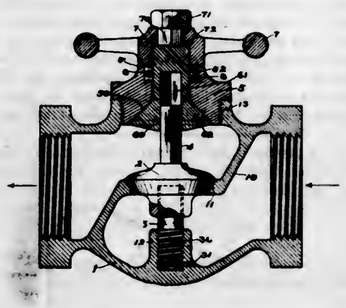
2. As a new article of manufacture for treating glass, a book or packet consisting of a plurality of detachable paper sheets or leaves, each impregnated with glycerin, and a cover inclosing said packet to prevent contact with the impregnated leaves or sheets.

1,376,744. WASHER-SECURING DEVICE. FREDERICK D. CONARD, Philadelphia, Pa. Filed May 10, 1920. Serial No. 380,228. 2 Claims. (Cl. 251—44.)



2. A washer-securing device for valve stems made from flexible sheet material and including flexible fingers adapted to be bent into embracing position with the head of a valve stem; substantially as described.

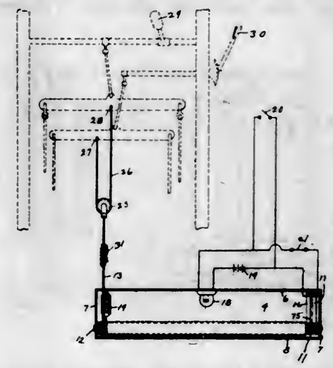
1,376,745. VALVE. EDGAR J. CRAWFORD, Seattle, Wash. Filed May 5, 1919. Serial No. 294,685. 1 Claim. (Cl. 251—47.)



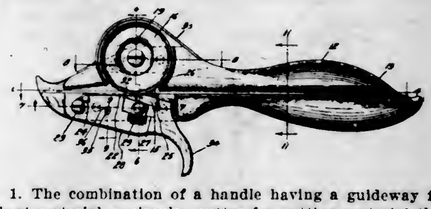
In combination, a valve case having a partition provided with a valve seat and an opening alined with said seat and adapted to permit passage of the valve, a valve adapted to said seat and having a stem at each side, the stem at the side which is opposite to said opening in the case being threaded and removably attached to the valve to permit grinding of the valve, a complementally threaded nut carried by the casing and receiving said threaded stem, a bonnet screwing into the said opening in the casing and having a bore alined with the other valve stem and surrounded on its inner face with a seating surface, a sleeve having a stem fitting said bore and a head having a complemental seating surface, said sleeve having a socket receiving the last mentioned stem and having an axially movable rotative connection with said valve stem, and means externally of the casing for turning said sleeve.

1,376,746. AUTOMOBILE STOP-SIGNAL. LENA F. DALTON, Portland, Oreg. Filed Apr. 28, 1920. Serial No. 377,222. 2 Claims. (Cl. 116—36.)

1. In an auto stop signal, the combination of a box member having one transparent side with a pair of transparent shutters hinged at the upper and lower margins of said transparent side and adapted to meet at its center, said transparent shutters bearing an opaque warning signal and a means for swinging said shutter against the transparent side consisting of a cable attached to a spring in said box and then wound around a hub on the lower shutter, thence in a counter direction around a hub on the upper shutter, then secured to the brake mechanism in a manner which will close said shutters when the brakes are applied.

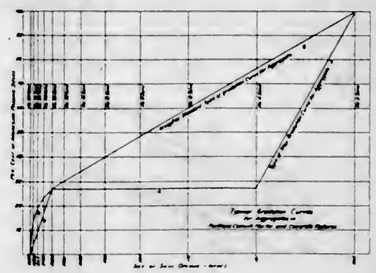


1,376,747. DEVICE FOR CUTTING SHEET MATERIALS. WILLARD L. DORR, Rockford, Ill. Filed Sept. 6, 1919. Serial No. 322,033. 23 Claims. (Cl. 120—35.)



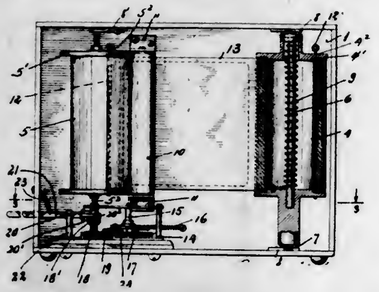
1. The combination of a handle having a guideway for sheet material, a circular cutter for cutting material that is moved along said guideway, and means laterally offset from and having an annular roughened surface concentric with the cutter and actuated by movement of the sheet material for revolving the cutter.

1,376,748. METHOD OF PRODUCING A PREDETERMINED COLOR EFFECT IN CONCRETE AND STUCCO. JOHN J. EARLEY, Washington, D. C. Filed July 6, 1920. Serial No. 394,104. 2 Claims. (Cl. 18—61.)



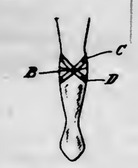
1. A method of producing a predetermined color effect in concrete which includes the steps of grading aggregate into a definite grade of size and color, commingling said grade of aggregate with cementing material and water, molding or applying the resultant mixture, and treating the surfaces of the work so that said aggregate protrudes from said surface.

1,376,749. TOY. KARL EDISON, Spring Valley, N. Y., assignor to Harry E. Bloch, Spring Valley, N. Y. Filed Jan. 17, 1920. Serial No. 352,100. 6 Claims. (Cl. 46—37.)



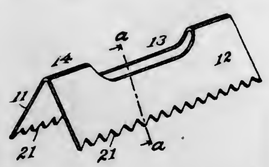
6. In a picture display box, the combination with a picture band, of a pair of flanged rollers, a rod removably supported in the flanges of each roller to extend longitudinally over the outer face of the latter and serving to engage the end edges of said picture band so as to cause said picture band to wind on or off said rollers when the latter are rotated.

1,376,750. HOSE-SUPPORTER. CLIFFORD W. EGERTON and JEFFERSON W. HANF, Brooklyn, N. Y. Filed Apr. 7, 1920. Serial No. 371,810. 4 Claims. (Cl. 241—5.)



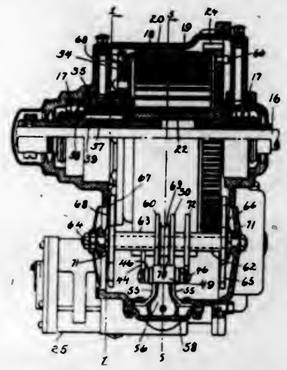
1. A garter embodying an elastic tape, the free ends of which are united to an intermediate portion of the tape to form the tape into an 8 shaped configuration, providing a pair of permanent elastic loops, one of which is adapted to embrace the limb above the calf and the other of which is adapted to embrace the sock below the calf.

1,376,751. CLEAT FOR SHEET-METAL ROOFING. CHRISTOPHER B. EDWARDS, Covington, Ky.; Sadie B. Edwards, executrix of said Christopher B. Edwards, deceased, assignor to Moeschl-Edwards Corrugating Company, Covington, Ky., a Corporation of Kentucky. Filed Feb. 19, 1919. Serial No. 277,961. 3 Claims. (Cl. 108—12.)



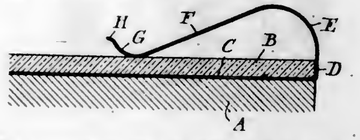
1. In crimped sheet-metal roofing, a plurality of nether supporting-cleats for each lapped seam of contiguous sheets, comprising a series of spaced minute or abridged strips of inverted-V-shape material each of a decidedly lesser length than that of said seam and adapted to lie directly within said seam and thereby firmly backing and supporting it in driving fastening-nails therethrough free from crushing or lateral-spreading thereof.

1,376,752. ENGINE-STARTER. JOHN W. ESTERLINE and DONALD J. ANGUS, Indianapolis, Ind., assignors to Tidewater Equipment Corporation, Portland, Me., a Corporation of Maine. Filed May 4, 1917. Serial No. 166,341. 32 Claims. (Cl. 185—41.)



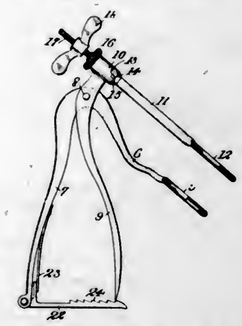
10. An engine-starter comprising a main spring, an electric motor and gearing arranged to wind said spring at one end, a rotatable member connected to the other end of said spring to transmit the starting motion from the spring, brake mechanism arranged to restrain said rotatable member, means arranged to be actuated by said gearing to open the circuit of said motor when the winding of said spring has progressed to a predetermined degree, and means arranged to be actuated by further spring-winding movement of said gearing to move said brake mechanism to release said rotatable member.

1,376,753. PAPER-CLIP. HAROLD H. FEBREY, Newark, N. J. Filed Aug. 28, 1919. Serial No. 320,333. 3 Claims. (Cl. 24—66.)



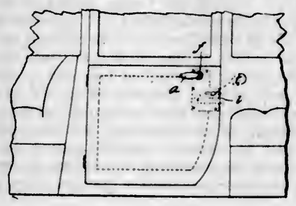
1. The combination with a desk, table or the like of a clip having a base and having a spring finger for holding down papers, and a plate bearing on said base and serving by its weight to hold the clip down while permitting lateral adjustment thereof.

1,376,754. SURGICAL INSTRUMENT. JACOB A. FULTON, Astoria, Oreg. Filed Sept. 14, 1920. Serial No. 410,157. 5 Claims. (Cl. 128—320.)



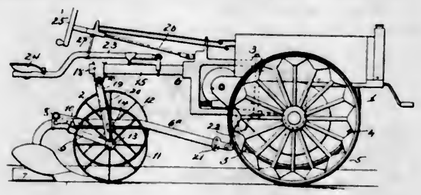
1. In a tonsil removing instrument a pressure producing member adapted to be positioned on the outside of the jaw adjacent the tonsil to be removed, a tonsil extracting member adapted to be positioned within the throat to encircle the tonsil to be removed and means for inducing a clamping effect of said members.

1,376,755. LATCH. ALEXANDER GAGNON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,731. 2 Claims. (Cl. 292—165.)



1. A latch, having in combination, a casing, a bolt slidable therein, a spring for projecting the bolt, an outside handle having a connection with the bolt and located near to the plane in which the bolt slides, and an inside handle pivoted to the casing at a point somewhat remote above the plane in which the bolt slides, said inside handle being in the form of a narrow bar curved in at its free end and pivoted at its extreme end and when in the position of non-action being in substantially horizontal position with its free end being the end which is remote from the outer end of the bolt, said handle arranged to operate in a vertical plane, and an interconnecting lever between the inside handle and the bolt pivotally supported in the casing and of a character to reverse the movement of the inside handle when applied to the bolt, whereby the said inside handle may be used as a pul-to handle for a carriage door.

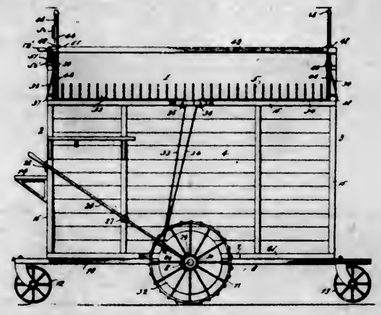
1,376,756. TRACTOR-DRAWN PLOW. ARTHUR D. GALLAGHER, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Mar. 10, 1919. Serial No. 281,585. 6 Claims. (Cl. 97—30.)



1. The combination with a tractor and a wheeled plow connected therewith, of means supporting the rear portion of the tractor on the spindles of the wheeled plow adjacent to the wheels on the spindles.

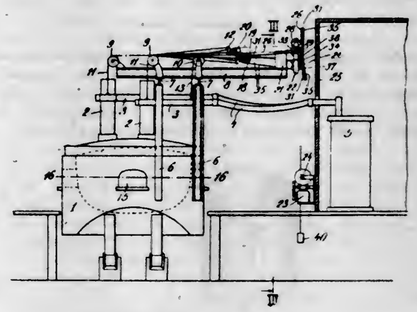
1,376,757. METHOD OF AND APPARATUS FOR FORMING STACKS OF GRAIN FOR CURING. DAVID M. GRAHAM, Bordulac, N. D., assignor to Graham-Roach Harvester & Stacker Company, of North Dakota. Filed Mar. 5, 1918. Serial No. 220,578. 15 Claims. (Cl. 214—9.)

1. In a transportable stack former, the combination of end stack-forming walls, a side stack-forming wall, an opposite side stack-forming outwardly movable wall, a wheeled support, and a bottom for dumping the stack, said bottom being movable relative to said stack forming



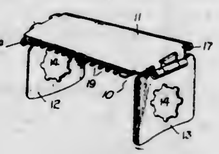
walls and inclinable toward said outwardly movable side wall to deposit the stack at the side of the course of the machine.

1,376,758. OPERATING MECHANISM FOR ELECTRIC FURNACES. JAMES H. GRAY, New York, N. Y. Filed Apr. 12, 1919. Serial No. 289,567. 11 Claims. (Cl. 204—64.)



1. The combination with a tilting electric furnace of mechanism for adjusting electrodes in said furnace, said mechanism comprising a motor mounted on a stationary support and transmission means between the motor and the electrodes adapted to hold the latter in substantially the same position with reference to the furnace when the furnace is tilted as when it is upright.

1,376,759. SAFETY-RAZOR. CHRISTIAN E. A. GRONBECH, Woodhaven, N. Y. Filed Sept. 9, 1919. Serial No. 322,678. 6 Claims. (Cl. 30—12.)



1. A safety razor comprising a base plate and a clamping plate movably connected therewith, holding members movably mounted at the ends of said clamping plate, and means whereby different kinds of blade holders may be received, movably retained, and clamped, between said plates.

1,376,760. BAND JAR-CLOSURE. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 15, 1919. Serial No. 282,918. 1 Claim. (Cl. 215—95.)



The combination with a jar having a flat top with the outer wall extending abruptly downward and then inward to form a sealing shoulder, of a closure comprising a top flat at the outer portion and an annular flange that extends abruptly downward with the lower edge or margin bent abruptly upward on the inside to form a wedge-shaped channel open at its upper part below the top wall of the closure, a flat ring gasket of compressible material having its outer portion tightly compressed in and filling said wedge channel and extending up to the top of the closure inside of the flange and horizontally inward against the under side of the closure top wall, and a sealing ring having an upper flange portion engaging the top of the closure at the flange margin, with the lower margin of the band bent inwardly under the jar sealing shoulder to retain the closure in sealing position with the gasket under compression.

1,376,761. CATSUP-BOTTLE CAP. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 23, 1919, Serial No. 292,192. Renewed Dec. 7, 1920. Serial No. 429,034. 2 Claims. (Cl. 215—43.)



1. A closure cap comprising a body portion formed of a sheet metal strip bent into the proximate form of a cylinder with the end portions lapping and the outer edge bent back on itself inwardly, the inner end portion being provided with slits with the inclosed portion bent outwardly to form a lug that hooks into the said inner bent end portion to prevent separation of the end portions, whereby to form a lock entirely concealed on the outer face of the closure, and a disk closing one end of the body.

1,376,762. POSITION-REVEALING SYSTEM FOR TORPEDOES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 18, 1917, Serial No. 186,982. Renewed Sept. 28, 1920. Serial No. 413,439. 26 Claims. (Cl. 114—21.)



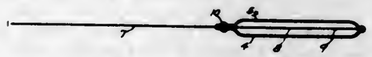
1. The combination with a movable body, of normally invisible position revealing means carried by said body, means acting upon said position revealing means to render said position revealing means visible whenever said body is caused to be diverted from a straight course and an auxiliary submerged position revealing means towed by said body.

1,376,763. BUCKLE. HORACE G. HANCOCK, New Britain, Conn., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Filed June 5, 1920. Serial No. 386,867. 2 Claims. (Cl. 24—194.)



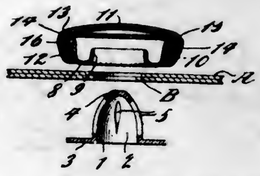
1. A buckle comprising a frame furnished with side bars having longitudinally straight recesses opposite each other, the front end of the frame having a depending flange closing the forward portion of the recesses, and a detent, the ends of which are fitted in recesses for sliding movement, the detent having a slot for the passage of the strap, the detent forward of the slot being deeper than at the back thereof and also extending below said depending flange and said back portion of the detent being adapted to press the strap against the back portion of said front cross bar when a forward pull is applied by the strap to said deep portion of the detent the detent moving in a straight path on its opposite motions.

1,376,764. HANDLED IMPLEMENT. HUBERT C. HART, Unionville, Conn. Filed Sept. 1, 1920. Serial No. 407,474. 1 Claim. (Cl. 30—9.)



A handled implement comprising a handle portion and a working portion having a tang, the tang being longitudinally slotted to thereby leave a slender marginal portion, the handle portion comprising two sections which jointly clamp the tang and into one of which the tang is fitted, the tang being initially flat throughout its complete length and the marginal portion of one of the sections of the handle being flanged over the corresponding marginal portion of the other section of the handle, the inner flanged portion of the flanged section being curled around the bolster portion of the complemental section to positively prevent movement between the handle portion and the tang.

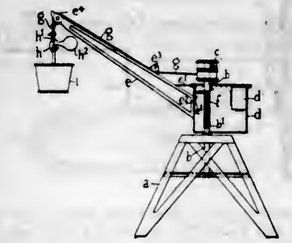
1,376,765. BALL-AND-SOCKET FASTENER. LEAMAN S. HARVEY, Waterbury, Conn., assignor to Lane Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 3, 1920. Serial No. 386,147. 12 Claims. (Cl. 24—220.)



1. A socket fastener member comprising a cap-piece having a flange, and a collet, a covering material over the cap-piece and around said flange and gripped inside said cap-piece between said flange and the collet, said collet having means integral therewith and projecting laterally therefrom in interengagement with said covering to prevent turning of the same relative to the collet.

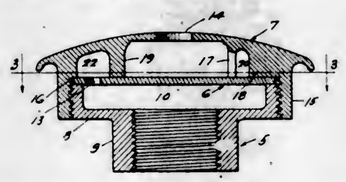
1,376,766. MECHANICAL TOY. GEORGE HAZELTON, Portadown, Ireland, assignor to The British Metal and Toy Manufacturers Limited, London, England. Filed Oct. 14, 1920. Serial No. 416,926. 4 Claims. (Cl. 46—37.)

1. A mechanical toy having in combination a base, a vertical rod fixed with relation to the base, a drum concentric with the said rod and fixed with relation to said base, a housing rotatably mounted on said rod, a lateral projection carried by said housing, guides carried by the said projection, a coiled spring fastened at one end to



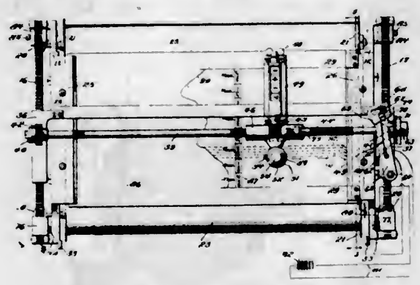
the said rod and at the other end to the housing and a flexible suspension member fastened at one end to said drum, wound around the drum, passing through the guides on the lateral projection and adapted to carry a weight.

1,376,767. SPRINKLER-HEAD. EUGENE F. HESS, Pasadena, Calif. Filed Apr. 27, 1918. Serial No. 231,231. 1 Claim. (Cl. 299—114.)



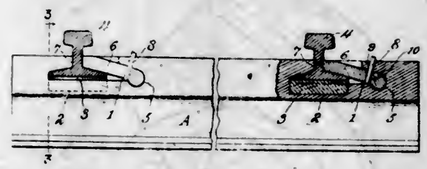
A sprinkler head comprising a cylindrical base adapted to be attached to the end of a supply pipe, said base having a supply chamber for water, a disk removably clamped over said chamber and having openings adjacent its periphery, a cover with vanes extending inward from its outer wall forming pockets with nozzles discharging tangentially inwardly, said pockets communicating with said supply chamber through said openings, said vanes also forming a central whirl chamber, said cover forming a substantially flat upper wall for said whirl chamber.

1,376,768. DEVICE FOR MEASURING GRAPHIC RECORDS. WENDELL HESS, Jr., Troy, N. Y. Filed Sept. 4, 1919. Serial No. 321,646. 16 Claims. (Cl. 33—121.)



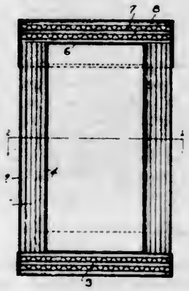
1. In a device for measuring the areas of graphic records, the combination of a support for the record; a movable pointer; guiding means for said pointer including a right line guide and automatic guide-shifting means serving to constrain said pointer to a path consisting of successive parallel uniformly spaced straight lines, whose length may be determined by the operator to conform to the outline of the graphic record; and recording means actuated by the movements of the pointer and giving directly the sum of the lengths of the parallel straight lines traversed by the pointer.

1,376,769. RAILROAD-CROSSTIE. JUDD W. HULBERT, Aberdeen, Md. Filed Nov. 8, 1919. Serial No. 336,655. 1 Claim. (Cl. 238—285.)



In a metallic tie and rail fastener comprising a crosstie with its upper edge chambered out a sufficient width relative to the width of the rail base to receive said rail laterally, and one side of the chambered portion fashioned to snugly fit one side of the rail web and base, and having a rounded recess formed in the opposite end of the chambered-out portion with the interior wall inclined adjacent thereto and therefrom approximately parallel to the inclined upper surface of the rail base but spaced therefrom, the chambered-out portion being recessed and a cushion-block inserted in said recess, upon which the rail rests, a securing block having a rounded portion constructed and adapted to fit in the rounded recess, whereby the securing-block is held against longitudinal movement of the tie, and the top of the securing block being engaged on the upper side and at the base thereof by the inclined wall of the tie adjacent to the rounded recess, the lower side of the securing block fitted and adapted to engage the upper surface only of the adjacent side of the rail base and the rail web, and bridging the open space interposed between the edge of the chambered out portion of the adjacent edge of the rail base, and a pin adapted to register with openings in the cross-tie and the securing block centrally thereof, whereby the block is held against movement transversely of the tie.

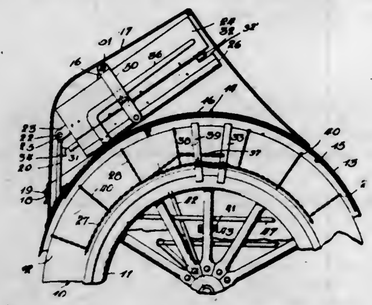
1,376,770. ICE-CREAM CONTAINER. ROBERT T. HUNT, Coshocton, Ohio, assignor to The Hunt-Crawford Co., Coshocton, Ohio, a Corporation of Ohio. Filed Aug. 2, 1919. Serial No. 314,974. 1 Claim. (Cl. 229—14.)



An ice-cream container comprising a cylindrical outer container formed of pasteboard or like material, a corrugated paper board disk at the bottom of said outer container, a cylindrical shell formed of a plurality of spirally wound convolutions of corrugated paper board

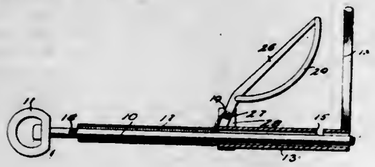
and fitting within said outer container, a removable inner container of pasteboard or like material, a disk on top of said inner container, and a lid for said outer container.

1,376,771. AUTOMATIC ANTISKID-CHAIN PLACER AND REMOVER. HENRY C. JANZEN, Jansen, Nebr. Filed May 8, 1920. Serial No. 379,850. 6 Claims. (Cl. 152—14.)



1. An anti-skid chain placer comprising a tiltable chain holder, a chain removably carried by the support and having arcuate wheel gripping clips normally distended into spread condition by the holder, means for tilting the support to dispose one end in straddling relation to the tire and rim of a wheel, and means for pushing one of the clips from the holder to contract into embracing engagement with the tire and rim.

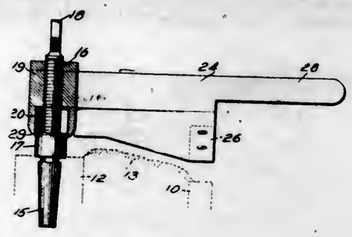
1,376,772. ANIMAL-TRAP. EDMUND E. KOHL, Sheridan, Wyo. Filed Sept. 1, 1920. Serial No. 407,476. 9 Claims. (Cl. 43—91.)



1. An animal trap of the character described, comprising a rotatable shaft, a jaw carried by one end of said shaft, a sleeve rotatably mounted on said shaft at one end, a jaw carried by said sleeve and adapted to coact with the jaw of said shaft, said sleeve having an arcuate slot extending circumferentially thereof, a radial pin carried by said shaft and projecting through and beyond the slot of said sleeve, a torsional coil spring arranged on said shaft and having one end secured thereto and its opposite end secured to said sleeve whereby to produce relative rotatable movement in said shaft and said sleeve, a releasably locking bar pivoted to said sleeve and engageable with the pin of said shaft, said locking bar having an offset at its free end and a trip pivoted to said sleeve and having a dog engageable with the offset of said locking bar whereby to releasably maintain the same in locked position.

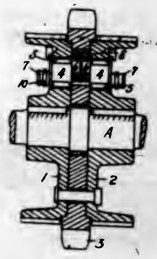
1,376,773. SHAPING DEVICE FOR ARTICLES MADE OF CERAMIC BONDED MATERIAL. PEHR JOHANSON and ERNEST A. FRANCKE, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 14, 1919. Serial No. 317,604. 10 Claims. (Cl. 25—26.)

1. A device for shaping articles of ceramic bonded material, comprising a support having a projecting center to form a center hole in the article, a blade rotatably mounted on said device, and means for causing the blade while



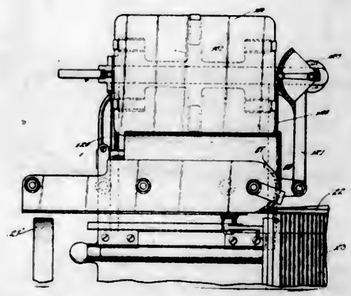
rotating to move bodily toward the work to a predetermined extent and thereafter to freely rotate without substantial movement toward the work.

1,376,774. YIELDING COUPLING. ARTHUR LANZ, Youngstown, Ohio. Filed July 26, 1920. Serial No. 399,153. 7 Claims. (Cl. 64—100.)



6. A yielding coupling comprising three side by side coupling members, yielding elements carried by said coupling members to yield approximately parallel to the axis of rotation, means provided for said yielding elements to reduce friction, coupling pins projecting laterally and out of center from the yielding elements of the inside coupling member to engage suitable face recesses of yielding elements carried by the two other coupling members to form yielding units, regulating pins projecting laterally and out of center from the yielding units, helical springs interposed between said regulating pins and the coupling members to regulate the yield.

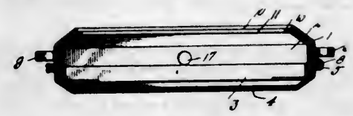
1,376,775. STACKER FOR SLICING-MACHINES. AUGUST R. LUSCHKA and JOSEPH FOLK, Laporte, Ind., assignors to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed Sept. 8, 1919. Serial No. 322,358. 62 Claims. (Cl. 17—24.)



1. In combination, a slicing machine comprising a rotary knife, a reciprocating table for presenting material

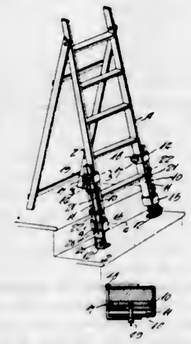
to said knife to be sliced, a tray for receiving slices formed by said knife and feeding mechanism for moving said tray, said feeding mechanism being located at the side of said tray away from the operating position of said slicing machine.

1,376,776. WATCHCASE. LEWI LUBIN, New York, N. Y. Filed July 12, 1920. Serial No. 395,480. 3 Claims. (Cl. 58—88.)



2. The combination with a watch movement of general angular shape having beveled corners, of a watch case, and a movement frame fitting the watch case and having plates at its corners fitting the beveled corners of the movement and covering the spaces formed thereby in the watch case.

1,376,777. LADDER ATTACHMENT. ARTHUR P. O'CONNOR, Denver, Colo. Filed May 7, 1920. Serial No. 379,631. 3 Claims. (Cl. 228—63.)



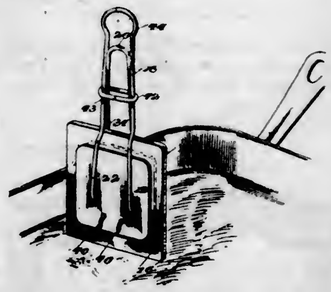
1. A step ladder attachment comprising a stationary member, and an adjustable member slidable upon the stationary member, a sleeve carried by the stationary member for the reception of one side of the ladder, guide flanges formed by said sleeve and overlying the opposed edges of the adjustable member, a foot piece carried by the adjustable member, and means for holding said members fixed relatively in position.

1,376,778. TENNIS-BALL AND PROCESS OF MAKING SAME. WILLIAM J. ORR, Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 5, 1919. Serial No. 315,508. 7 Claims. (Cl. 154—17.)



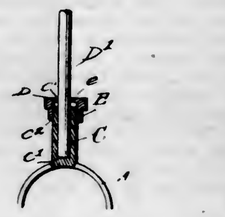
1. A tennis ball having a hollow rubber center with a fabric cover, said fabric cover applied directly to the rubber having depressions molded in its surface, substantially as described.

1,376,779. CLEANING DEVICE. WILLIAM A. PENROD, Dayton, Ohio. Filed June 10, 1920. Serial No. 387,895. 4 Claims. (Cl. 65—12.)



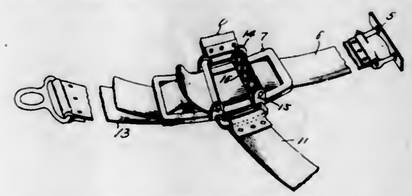
3. A device of the class described comprising a cleaning element, a pair of handles provided with arms having their forward portions offset and extending through said cleaning element, and a locking loop slidably arranged on said handles and adapted for detachably connecting the same, the rear portion of one of said handles being enlarged for forming a stop element.

1,376,780. MUSIC-LYRE HOLDER. WILLIAM CURRAN REID, Elkhart, Ind. Filed Jan. 19, 1920. Serial No. 352,336. 4 Claims. (Cl. 287—23.)



1. In a music lyre holder, the combination with a lyre-carrying stem or shank, of a base adapted to be secured to a band instrument, a tubular post extending upwardly therefrom and in which said stem or shank is keyed against axial movement, and a slip collar slidably mounted on said stem and engaging the keying means and locked to the said tubular post, whereby the said stem and post will be held against both longitudinal and axial movement with respect to each other.

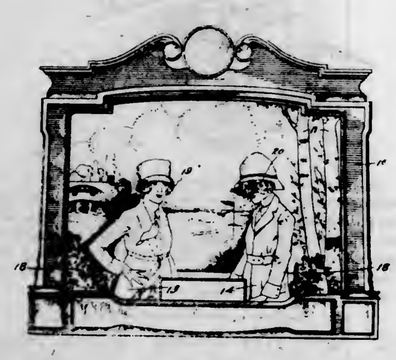
1,376,781. STRAP CONNECTION FOR HARNESS. VICKTOR ROSENLOF, Timber Lake, S. D. Filed Oct. 27, 1916. Serial No. 128,055. 1 Claim. (Cl. 24—170.)



In a harness buckle, a frame longitudinally curved, a plurality of lips extending outwardly therefrom, bars journaled therein, one of said bars being journaled eccentrically and having a roughened surface adapted to automatically grip a strap when said strap is pulled in one direction, a bar extending across said frame parallel with said eccentric bar forming a base with which the eccentrically mounted bar coacts, a tongue having a curved

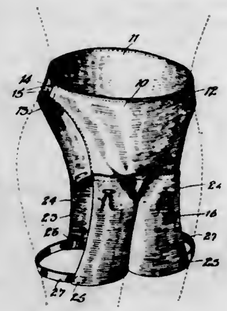
surface for engaging a strap, said curved tongue terminating in an eye, said eye being pivotally mounted on one of said first mentioned bars, as and for the purpose described.

1,376,782. HAIR-NET-DISPLAY DEVICE. LOUIS ALBERT SAMSTAG, New York, N. Y. Filed Dec. 31, 1920. Serial No. 434,333. 4 Claims. (Cl. 35—16.)



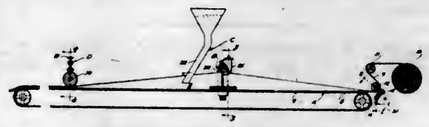
1. Apparatus for demonstrating the advantages of the use of hair nets by comparison, including a pair of lay figures in juxtaposition to each other adapted to be simultaneously observed, a material having the appearance of hair mounted on one figure and free to blow about in a current of air, material having the appearance of hair mounted on the other figure and confined to prevent it from blowing about in said current, the construction being such that when a current of air is directed across the figures, the hair-like material on one figure will blow about while that on the other will be substantially unaffected.

1,376,783. SANITARY PROTECTOR. CATHERINE SCHOEN, Scranton, Pa. Filed Feb. 14, 1920. Serial No. 358,600. 2 Claims. (Cl. 128—288.)



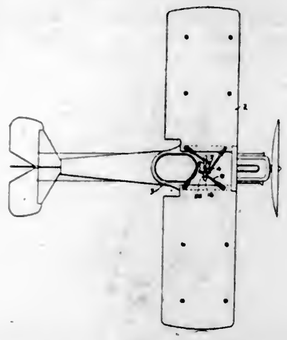
1. A protector comprising a girdle having integral, downwardly extending front and rear flaps and fastening means over one hip, leg parts of a waterproof material formed in two parts and connected by a single transverse seam, said leg parts being fixedly secured to the bottom of the front flap of the girdle and adjustably securable to said back flap.

1,376,784. PLASTER-BOARD AND METHOD OF MAKING SAME. JOHN SCHUMACHER, Los Angeles, Calif. Filed Dec. 22, 1919. Serial No. 346,535. 5 Claims. (Cl. 154—2.)



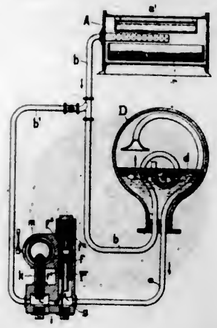
1. The process of making plaster board which consists in advancing a single integral sheet of covering material, folding the edges of said sheet, introducing plastic material therein, and infolding the edges of said sheet so as to lap.

1,376,785. AEROPLANE. JACOB P. SELLMER, San Anselmo, Calif. Filed Nov. 4, 1920. Serial No. 421,742. 4 Claims. (Cl. 244—12.)



1. An aeroplane embodying in its construction a fuselage, a wing pivoted intermediate of its ends and side edges to said fuselage and movable into position parallel to said fuselage, and means for locking the wing in position of use having locking engagement with the wing and fuselage at spaced points rearwardly and forwardly and on opposite sides of said pivot.

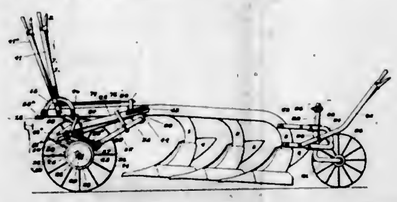
1,376,786. APPARATUS FOR OPERATING INTERNAL-COMBUSTION ENGINES BY MEANS OF ACETYLENE. JACOB SIEBER, Olten, Switzerland. Filed Apr. 4, 1919. Serial No. 287,586. 2 Claims. (Cl. 60—37.)



1. Apparatus for operating internal combustion engines by means of acetylene, comprising an acetylene generator, a vessel connected therewith and containing an ammonia-

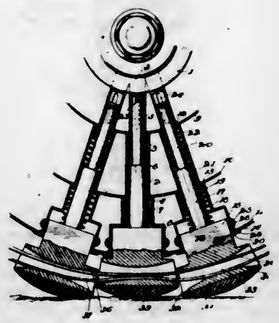
bath for purifying and impregnating acetylene, an apparatus connected with the engine having a narrow central duct and a narrow annular duct in which successively the acetylene laden with particles of liquid passes from the bath in a thin layer along a comparatively lengthy path and is exposed to the heat of the engine for preheating the acetylene and evaporating the liquid particles which it carries, and a suction nozzle into which the said channels open and which opens into an air intake, substantially as described.

1,376,787. GANG-PLOW. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Jan. 15, 1915, Serial No. 2,343. Renewed Feb. 11, 1921. Serial No. 444,266. 26 Claims. (Cl. 97—54.)



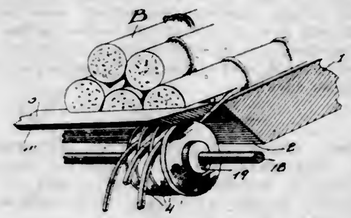
9. In a frameless gang-plow, of the class described, having a beam structure with a rear furrow wheel, behind the bodies, on which its rear end rests when its front end is moving vertically, and composed of a plurality of beams each provided with a body, and all rigidly secured together, the combination with the aforesaid parts of a vertically-adjustable front ground wheel on the furrow side of the frame, a vertically-swinging crank system mounted on the frame at the land side thereof and having toggle-lever-like relationship therewith, a land wheel connected to said crank system and swinging vertically therewith, a primary power device continuously rotating with the land wheel, and a uni-directional rotating power-transmitting device optionally engageable positively with, and rotatable by, said power device through a predetermined part of a fixed cycle to positively swing the crank system downward, and rotatable in the same direction through the other part of said cycle to its initial position relative to the crank when it is in its uppermost position.

1,376,788. RESILIENT WHEEL. SOTORIOUS D. WARNER, Kokomo, Ind. Filed Mar. 26, 1919. Serial No. 285,331. 9 Claims. (Cl. 152—31.)



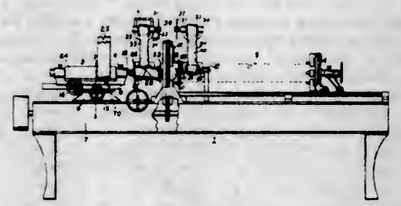
5. In a resilient wheel, a plurality of radially movable plungers each having a tread head at its outer end, the heads having openings, and inner and outer annular resilient elements extending through the openings and respectively normally contacting the inner and outer walls of the said openings.

1,376,789. MACHINE FOR SHREDDING BAMBOO AND THE LIKE. ALVIN H. WILLIAMS, Plant City, Fla. Filed June 20, 1919. Serial No. 305,471. 2 Claims. (Cl. 144—185.)



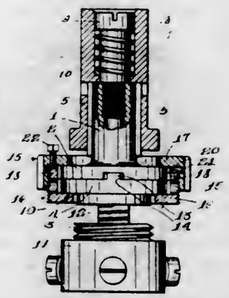
1. Double-edged single cutting means, a plurality of closely spaced cutters operatively associated in a plane at right angles to the single cutting means, means for containing a section of bamboo or like material above said single cutting means, means for reciprocating said holding means, causing the cutting of a sliver from said material and sub-dividing it into long shreds, in one operation at each stroke; operatively associated means for varying the spacing between the plurality of cutters, and means for adjusting the single cutting means in accordance.

1,376,790. REAMER AND CUTTER. CASIMIR J. WOOD, San Francisco, Calif. Filed May 12, 1919. Serial No. 296,677. 4 Claims. (Cl. 144—2.)



1. A reamer and cutter, means for holding the work, a reaming and cutting tool, means for moving the tool longitudinally into the work, and means for moving the tool transversely to ream out the work and to cut off a reamed sleeve from the work.

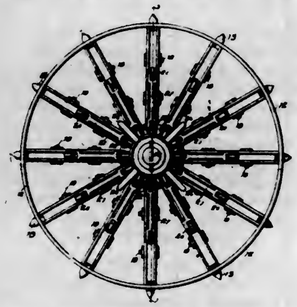
1,376,791. SELF-CENTERING TOOL-HOLDER. WALTER W. BAKER and FREDERICK W. FRANKLIN, Syracuse, N. Y. Filed May 16, 1919. Serial No. 297,603. 5 Claims. (Cl. 10—89.)



1. A self-centering tool holder comprising a body, and a tool holding member arranged end to end, the body

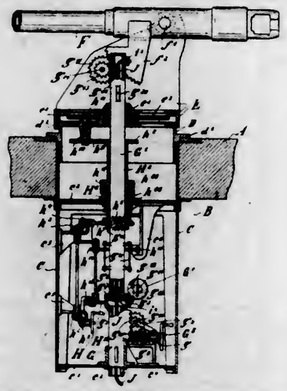
and said member being formed with interlocking means to transmit the rotary movement of the body to said member and permit relative centering radial movement of the body and said member and coupling means between the body and said member comprising complementally threaded collars associated respectively with the body and the said member, one of said collars having means for interlocking with the part on which the other collar is mounted to rotate with said part, substantially as and for the purpose described.

1,376,792. ADJUSTABLE TRACTIVE ATTACHMENT FOR TRACTION-WHEELS. ROBLEY DUNGLISON BALLARD, St. Petersburg, Fla. Filed Mar. 23, 1920. Serial No. 367,991. 5 Claims. (Cl. 301—46.)



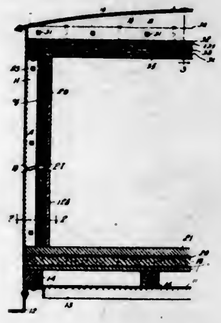
1. A traction wheel having a series of flat radial guide plates extending between its hub and its rim and having its rim provided with a series of openings, a series of radially adjustable tractive members slidably mounted in connection with said guide plates, the latter of which form the spokes of the wheel, said tractive members being provided with outwardly projecting tractive spurs movable through the openings of the wheel rim, a shaft on which the wheel is secured having a portion extending beyond one side of the wheel, a sleeve rotatable upon said projecting portion of said shaft and threaded, a nut engaged upon the threaded portion of the sleeve, a handle carried by the sleeve to provide for its rotation, and a series of toggle arms connecting the said nut with the series of tractive members, for the purpose described.

1,376,793. PIVOT-GUN. JULIUS BECKER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,391. 10 Claims. (Cl. 89—37.)



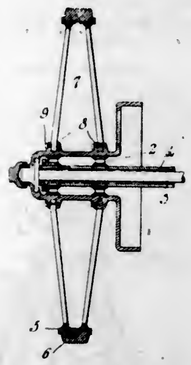
1. A device of the class described comprising a pivot gun, a chamber, a shaft projecting from the wall of said chamber, a gun pedestal extending from said chamber at a point opposite said shaft, a gun carriage supported thereon, a cover-plate in said shaft, a two part thrust bar extending through said cover-plate, an elevating and traversing mechanism carried by the gun carriage and means within said shaft, acting through said thrust bar, for operating said elevating mechanism.

1,376,794. REFRIGERATOR-CAR. WILLIAM J. BOHAN, St. Paul, Minn. Filed Nov. 6, 1919. Serial No. 336,098. 10 Claims. (Cl. 105—404.)



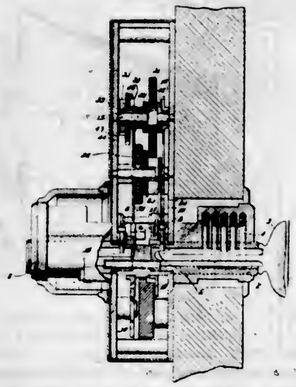
5. A car having the roof, floor and walls thereof each composed of an outermost ply of sheet metal, an intermediate lining spaced from the corresponding outermost sheet metal ply, an innermost wood lining spaced from the respective intermediate lining, and insulating material interposed between the innermost and intermediate linings.

1,376,795. SPRING-WHEEL. HORACE D. BOWMAN, Salt Lake City, Utah. Filed Nov. 27, 1918. Serial No. 264,381. 1 Claim. (Cl. 152—50.)



A spring wheel comprising a hub, a felly, resilient spokes of substantially parabolic form rigidly secured to both the hub and felly, said spokes being arranged radially in relation to the hub, thence curving and tapering to their outer terminal portions and at their outer terminal portions being disposed tangentially to the felly, said spokes being arranged in two sets, the spokes of one set being spaced from those of the other set transversely to the median plane of the wheel where said spokes are connected to the hub and also where they are connected to the felly, and being disposed opposite the spaces between the spokes of the other set.

1,376,796. RECORDING LOCK SYSTEM. JAMES W. BAYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed Oct. 20, 1919. Serial No. 331,767. 10 Claims. (Cl. 234—1.5.)



1. In a recording lock system the combination in each lock of a device for storing power operated by the normal movement of a key, a motive device for sending indicating impulses to line and a circuit controller closed by any rotary movement of said key, and in the recorder a motor adapted to be started by the operation of such circuit controller and means driven thereby to send over the line and to the lock impulses of current that control the operation in the lock of the motive device for sending the indicating impulses to the recorder.

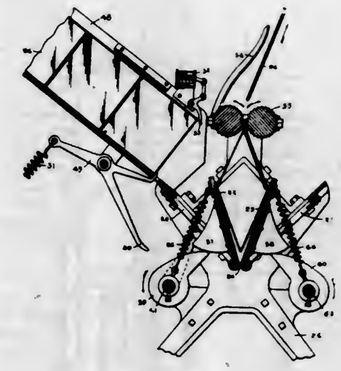
1,376,797. ROCKET. WILLIAM W. CASE, Frenchtown, N. J., assignor to William H. Fulper, Flemington, N. J. Filed June 15, 1918. Serial No. 240,166. 7 Claims. (Cl. 102—23.)



1. A rocket having a head containing a destructive charge and a plurality of cylinders connected to the head, each cylinder containing explosive to be ignited for the propulsion of the rocket, and means for firing the cylinders in sequence.

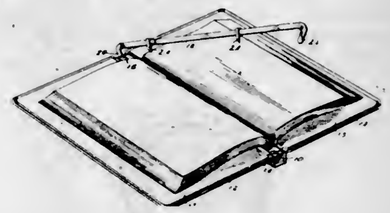
1,376,798. CAN EMPTYING AND FLATTENING MACHINE. FRANK J. COURTNEY, Seattle, Wash. Filed Nov. 4, 1919. Serial No. 335,582. 16 Claims. (Cl. 100—31.)

1. A machine for flattening rectangular cans embodying a three sided cutter disposed to move to and from a can to cut said can on three sides, two crushing members normally assuming a V-shaped position to hold a rectangular can on edge while said cutter is operating, and means to cause said crushing members to close together whereby the can is flattened.



15. In combination with a can flattening machine, a box-cutter having a three sided cutting edge but said edge is formed sloping from a single point whereby is provided a cutter having in final effect two continuous cutting edges.

1,376,799. MAGAZINE-BINDER. FRANK HOWARD CRUMP, Los Angeles, Calif. Filed Mar. 24, 1920. Serial No. 368,368. 6 Claims. (Cl. 129—38.)

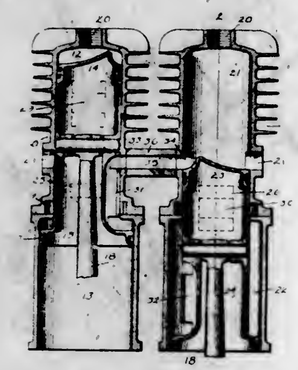


5. In a temporary binder of the class described, a stiff back with covers attached, the back being notched at each end, keeper pins extending across the notches, and a flat resilient wire clamping member with ends acutely and oppositely bent, one end being pivotally attached within one notch to one of the keepers and the other end being detachably engageable in the other notch to the other keeper, and a plurality of binding pins slidably disposed on the clamping member.

1,376,800. GAS-ENGINE. WILLIAM E. DEISCH, Portland, Oreg. Filed July 3, 1919. Serial No. 308,377. 1 Claim. (Cl. 123—59.)

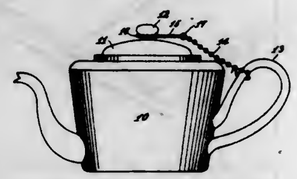
An engine of the character described comprising cylinders each formed in two sections of different diameters, a piston within each cylinder formed in sections conforming to said cylinder sections and slidable therein, each cylinder being provided in the smaller section thereof with an exhaust port and being further provided intermediate the ends of the smaller section with an inlet port, the smaller section of each cylinder having further formed therein a port opposite the exhaust port, a passage member connecting said cylinders and establishing communication between said last named ports, the upper portion

of the smaller section of each piston having formed in one side thereof a longitudinally elongated depressed portion forming a passage adapted to register with the inlet port and to establish communication therebetween and the larger section of the cylinder, said inlet port being arranged approximately at right angles to the exhaust port



and said last named port, and the lower portion of the smaller section of each piston having formed in one side thereof a depressed portion forming a passage adapted to establish communication between the larger section of the cylinder and the smaller section of the other cylinder through said last named ports and said passage member.

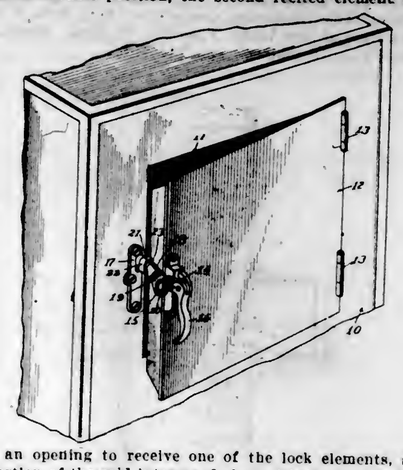
1,376,801. FASTENING DEVICE FOR LIDS OF POTS OR VESSELS. GEORGE HENRY DOWNES, Wolverhampton, England. Filed May 13, 1919. Serial No. 296,955. 1 Claim. (Cl. 24—73.)



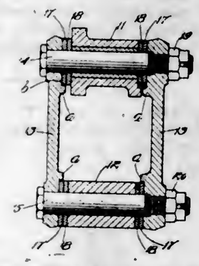
The combination with a handle and lid of tea, coffee and like pots in which the lid is provided with a knob; of a detachable fastening device for securing the lid to the pot including an expansible rubber ring adapted to be forced over the knob whereby it will contract and be retained on the knob, said ring completely encircling that portion of the knob which it engages, and a flexible element looped through the handle and secured at its two ends to the ring whereby the ring is secured to the pot.

1,376,802. CLOSURE HOLDING AND SECURING MEANS. WILLIAM DUQUETTE, Traverse City, Mich., assignor to Johnson-Randall Co., Traverse City, Mich. Filed Aug. 25, 1919. Serial No. 319,652. 4 Claims. (Cl. 292—272.)

1. The combination of a refrigerator, a closure therefor, a lock for the closure and embodying interengaging and separable elements, one of the elements being secured to the closure and the other to the refrigerator, and an element conatructed of sheet material and interposed between the lock elements for holding the door in a slightly open and immovable position, the second recited element having an opening to receive one of the lock elements, and a portion of the said interposed element being bent around the other of the lock elements.



1,376,803. SPRING-SHACKLE FOR MOTOR-VEHICLES. STEPHEN I. FEKETE, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1919. Serial No. 338,461. 3 Claims. (Cl. 267—54.)

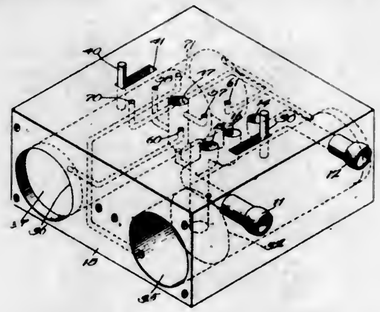


1. In combination with a frame or spring member and a shackle bolt, a spring shackle of relatively soft metal, a bearing plate of relatively hard metal surrounding the shackle bolt and secured to the frame or spring member, and a coöperating bearing plate in contact with the first plate and secured to the shackle.

1,376,804. PULSATOR. IRA G. FOSLER, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,249. 9 Claims. (Cl. 31—101.)

1. A vacuum operated pulsator for milking machines having two cylinders each provided with a single piston adapted to travel substantially from one end of the cylinder to the other, the cylinders having flat external valve seats and ports opening through said seats, and flat valves slidable on said seats and having internal passages adapted to coöperate with the ports for exhausting air first from one port and then from another and simultaneously uncovering one of them to the atmosphere for causing the pistons to reciprocate, said valves lying on the outside of the cylinders whereby they are held to their seats by suction.

3. A vacuum operated pulsator for milking machines having two cylinders each with a removable plate at one end, each cylinder having a piston therein provided with packing, the cylinders having flat external valve seats with three ports opening through them, and flat valves slidable on said seats and having internal passages adapted to coöperate with the ports for causing the pistons to travel, each valve being independent of the other and being mechanically connected to the piston in the opposite cylinder.



5. A vacuum operated pulsator for milking machines having two cylinders each provided with a single piston, the cylinders having flat, external valve seats exposed to atmospheric pressure and provided with three ports opening through them, two flat valves, independent of each other, adapted to reciprocate on the exposed surface of the valve seats, said valves having internal passages adapted to coöperate with the ports and connect two of them at a time and simultaneously uncover one of them, each valve being mechanically connected to the piston in the opposite cylinder for being operated by it, and air-controlling means operated by one of said valves.

7. A vacuum operated pulsator for milking machines having two cylinders each provided with a flat external surface forming a valve seat, each valve seat having three ports, one leading to the source of air tension and the other to the opposite ends of the cylinder, flat reversing valves slidable on said seats and having internal passages adapted to connect the ports two at a time and simultaneously uncover one of them, each valve being mechanically connected to the piston in the opposite cylinder, air-controlling means actuated by one of said valves, packing on said pistons and removable plates at at least one end of each cylinder whereby the pistons may be withdrawn for renewing the packing.

9. In a vacuum operated pulsator for milking machines a pair of cylinders each having pistons and flat surfaces on top each with three ports terminating therein, one of the ports leading from the source of vacuum and the others leading to the two opposite ends of the cylinder, controlling or reversing valves having internal passages for controlling said ports, said valves resting upon said surfaces, whereby gravity and suction tend to hold them closely seated, one of the valve seats having three additional ports, one of which leads to the source of vacuum and the other two are for the pulsatory air, one of the reversing valves having a second internal passage adapted to control said additional ports, the last mentioned reversing valve therefore constituting a combined reversing and pulsator valve, and being held to its seat additionally by the suction of the air in the last three ports mentioned, each of the valves being mechanically connected to the piston in the opposite cylinder.

1,376,805. PROCESS OF PRODUCING A SURROGATE FOR TANNIN. CARL GRAF, Cologne-Rodenkirchen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Mar. 11, 1916. Serial No. 83,613. 3 Claims. (Cl. 149—5.)

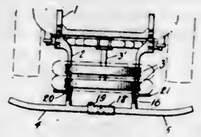
3. That process of producing a surrogate for tannin, which comprises treating tar with an aqueous solution of an alkali or its equivalent; separating the liquid thus obtained; and treating said liquid with sulfate of copper and sulfate of aluminum.

1,376,806. CROSS FURRING-STRIP. LOUIS J. GRAFF, Pittsburgh, Pa. Original application filed June 30, 1919. Serial No. 307,514. Divided and this application filed Nov. 18, 1919. Serial No. 338,904. Renewed Mar. 19, 1921. Serial No. 453,710. 3 Claims. (Cl. 189—88.)



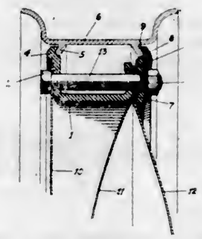
1. A cross furring strip for steel ceilings having a vertical web adapted to be interposed between the flanged edges of adjacent ceiling plates, a pair of lateral shoulders resting on the tops of said plates, a pair of lateral flanges upon which the edges of said plates rest, said flanges being adapted to be clenched upwardly against the flanged edges of said plates to clamp the structure together, and a vertical top web to stiffen said strip.

1,376,807. COMBINED SPARE-TIRE HOLDER AND REAR BUMPER FOR AUTOMOBILES. WILLIAM P. HAMMOND, Passaic, N. J. Filed Apr. 23, 1917. Serial No. 163,828. 11 Claims. (Cl. 293—55.)



3. A spare tire support, and impact receiving means adapted releasably to hold a spare tire in position upon said support.

1,376,808. RIM CONSTRUCTION FOR DISK WHEELS. LOUIS B. HARVEY, Stockton, Calif., assignor to Harvey Rim & Wheel Company Inc., Buffalo, N. Y. Filed Mar. 8, 1920. Serial No. 364,162. 2 Claims. (Cl. 301—23.)

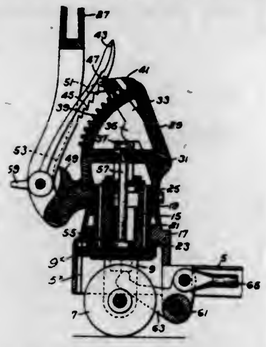


1. A rim structure for wheels comprising a fixed rim, annular flanges projecting outwardly from the inner and outer edges thereof and formed integral therewith, an extension on the inner flange projecting outwardly beyond the outer flange and arranged to seat one edge of a demountable rim thereagainst, a locking ring outside the outer flange extending outwardly therebeyond and adapted to bear against the outer edge of the rim, and bolts through the flanges of the fixed rim and the locking ring, whereby said flanges may be drawn toward each other to cause the rim flange and locking ring to pinch and bind the rim in place.

1,376,809. ELEVATING-TRUCK. DANIEL E. HENNESSY, Cudahy, Wis., assignor to The Sturdi-Truck Company, Northampton, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1919. Serial No. 347,705. Renewed Oct. 1, 1920. Serial No. 414,140. 22 Claims. (Cl. 254—2.)

1. An elevating truck comprising an elevating frame, a wheeled support, an intermediate member which lifts

with the platform and turns with the support, a segment rack thereon, a lever engaging the support also on said



member, a pawl on the lever coöperating with the rack and a second lever pivoted on said member and having a rack pivoted thereon adapted to engage the lever.

1,376,810. RIND-REMOVING MEAT-SLICING MACHINE. ARTHUR H. HEATZMAN, Baltimore, Md. Filed Dec. 6, 1917. Serial No. 205,864. 44 Claims. (Cl. 17—24.)



1. A bacon rind removing machine comprising a table, a knife mounted above and for a transverse intermittent movement across the surface of the table and having its cutting edge spaced from the surface of the table.

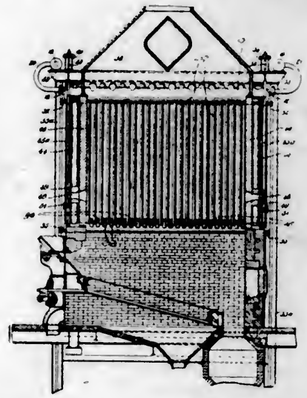
1,376,811. TOOL-HANDLE. LAZARUS S. HOOD, Philadelphia, Pa., assignor, by mesne assignments, to Ernest B. Odgers, Philadelphia, Pa. Filed Oct. 16, 1919. Serial No. 331,071. 2 Claims. (Cl. 145—61.)



1. A tool handle comprising two longitudinal handle members, each being arched in cross section, providing chambers in opposing sides thereof, each member having an endless edge portion entirely surrounding every dimension of its chamber and engaging the edge portion of the other member, and means for securing said members together, one of said members having a tool shank extending therefrom, one of said members being formed of a single steel forging, and the other of said members and said shank being formed of a single steel forging.

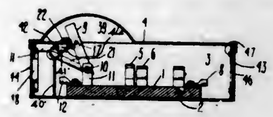
1,376,812. STEAM-GENERATOR. CHARLES A. HORN, Woodhaven, N. Y., assignor of one-fourth to W. Everitt Rundle, East Orange, N. J., and one-fourth to Harold E. Lombard, Bloomfield, N. J. Filed Oct. 18, 1918. Serial No. 258,702. 9 Claims. (Cl. 122—350.)

1. A steam generator comprising a plurality of similar steam generating sections arranged side by side, each section having two rows of upright water tubes, each row being inclined from the vertical to provide with the inclined tubes of the adjacent section a secondary combustion chamber having a progressively greater volume toward the bottom, and a primary combustion chamber common to all the sections, all said sections being adapt-



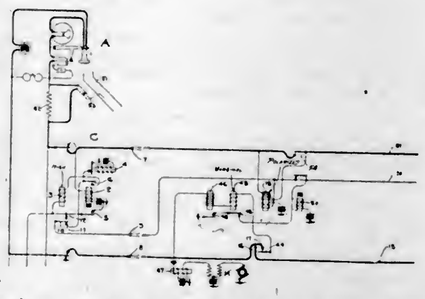
ed to receive radiant energy from the primary combustion chamber.

1,376,813. ELECTRICAL SWITCH. BRYSON D. HORTON, Detroit, Mich. Filed Jan. 22, 1915. Serial No. 3,703. 5 Claims. (Cl. 200—42.)



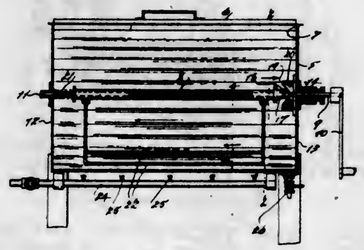
4. In an armor-clad switch, in combination, a metallic housing comprising a cover, sides and a hinge between said cover and one side, and a switch mechanism including a crank journaled in one of the sides of the housing, said cover carrying a depending extension in the path of the crank when the cover is closed, to interengage with the crank when moved from the extreme "off" position toward the "on" position, said extension comprising means whereby when the cover is closed and the crank is moved the crank and extension parts will interlock so that forcing of the cover open by the crank will be prevented substantially as described.

1,376,814. MEASURED-SERVICE TELEPHONE SYSTEM. EMIL JACOBSEN, New York, N. Y., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1919. Serial No. 276,623. 12 Claims. (Cl. 179—6.5.)



1. In a telephone exchange system, subscribers' lines, means for establishing a talking circuit between said lines through the central exchange, means for opening said talking circuit at the exchange when a called subscriber answers, and means controlled by the calling subscriber for again closing the said talking circuit.

1,376,815. WASHING-MACHINE. JACOB KALMANOWITZ, Brooklyn, N. Y. Filed Mar. 1, 1921. Serial No. 448,755. 7 Claims. (Cl. 259—144.)



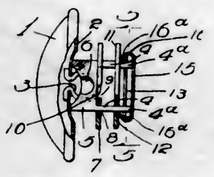
1. In a washing machine, a receptacle for clothes, a carrier fixedly secured thereto within same, paddles carried by the carrier, means to rotate the carrier, and means to impart to said carrier a reciprocating movement longitudinally of the receptacle during the rotation thereof.

1,376,816. GUARD ATTACHMENT FOR CAPS, HATS, OR OTHER HEADGEAR. GEORGE B. KNIGHT, Camden, N. J. Filed June 3, 1920. Serial No. 386,340. 5 Claims. (Cl. 2—192.)



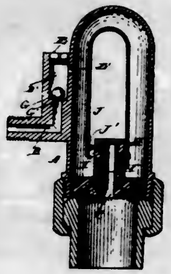
1. A guard for a head gear consisting of a pad of relatively rigid material, a mat of pliable material, an inverted sack within which said pad and mat are disposed, a band, stays rising from the band to sustain the upper structure of the guard, and a cover for said sack serving as a top closure for the guard.

1,376,817. SECURING DEVICE FOR DETACHABLE BUTTONS. HENRY KOCOUREK, Chicago, Ill. Filed Apr. 25, 1919, Serial No. 292,606. Renewed Mar. 23, 1921. Serial No. 454,900. 6 Claims. (Cl. 24—90.)



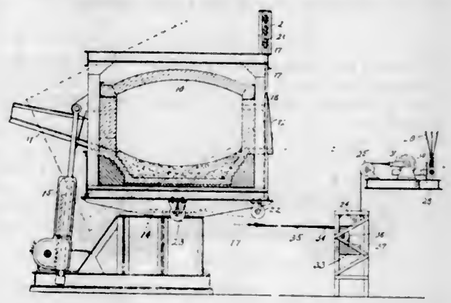
1. A button securing device consisting of a flat tube having at one end tangs projecting endwise for penetrating the fabric to which the button is to be attached, and dimensioned at the other end to receive the attaching loop or eye of a button, and to have one or more of its sides engaged therewith, and means for engaging the tangs on the opposite side of the fabric from the bottom.

1,376,818. THERMOSTATIC VALVE. SAMUEL LIPPERT, East Cleveland, Ohio. Filed Aug. 21, 1915. Serial No. 46,707. 3 Claims. (Cl. 236—66.)



1. A valve assembly for the purpose specified comprising a casing, a bottom closure for said casing having a projection extending upwardly into said casing and provided with a passageway extending through said closure and into such projection, there being a lateral port extending from said passageway through said projection, a thermostatic loop secured at one end to the side of said projection opposite said port and provided at its opposite end with a valve coöperating with said port, an outlet connection extending from beneath said closure, an upwardly extending inlet connection arranged externally of said casing and communicating therewith through a port located above the first-mentioned port, and a gravity closing valve in said connection below the second port.

1,376,819. DOOR-OPERATING MECHANISM FOR TILTING FURNACES. JAY S. MCCLIMON, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 10, 1919. Serial No. 296,165. 9 Claims. (Cl. 263—22.)

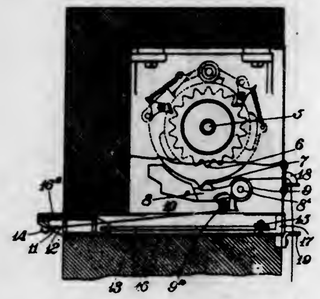


1. The combination with a tilting furnace having a door adapted to be raised and lowered, and having a base adapted to roll on a support, of a door shifting mechanism including a line connected to the door and extended beneath the furnace about a member located at or substantially at the center line of said furnace base, substantially as and for the purpose described.

1,376,820. FIRE-RESISTING SHUTTER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 2, 1919. Serial No. 286,900. 4 Claims. (Cl. 189—58.)

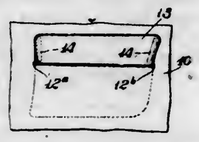
1. In combination with an automatically closing fire shutter or door, means for latching the shutter, flexible means for actuating the latching means, thermally operated means in said flexible means, a slide with which

said actuating means is connected for exposing said thermally operated means and means on the latching means op-



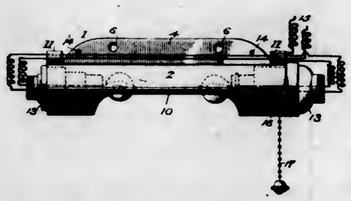
erated by the flexible means without displacing the slide to cause the latching means to be brought into and out of latching position.

1,376,821. POCKET-FLAP. CHARLES M. MCCORMICK, Columbus, Ohio. Filed Apr. 11, 1919. Serial No. 289,194. 3 Claims. (Cl. 2—15.)



1. In a garment, the combination with a single pocket provided with an opening thereto through the body of the garment, of a flap therefor secured to the body of the garment at the ends only of the pocket opening.

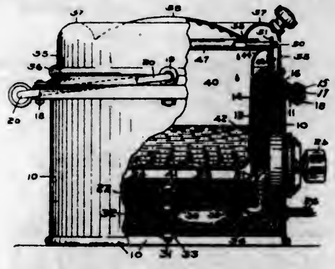
1,376,822. AUTOMOBILE-LIGHT. JOSEPH F. MCGROTHER and JAMES S. DEEN, Philadelphia, Pa. Filed May 8, 1920. Serial No. 379,781. 5 Claims. (Cl. 240—7.)



1. An electric light for automobiles, comprising a light socket, a casing shaped from sheet material to receive said socket and having its free edges at opposite sides of the sheet deflected to form flanges adapted to be secured to a fixed portion of the automobile, and fastening devices engaging said flanges to maintain formation of said casing, said casing having a cut out portion at its bottom.

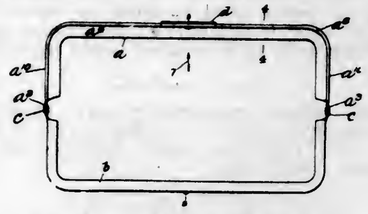
1,376,823. GLUEPOT. CHARLES W. MABEY, Indianapolis, Ind. Filed June 14, 1920. Serial No. 388,756. 5 Claims. (Cl. 126—284.)

1. A glue-pot of the character described, an open bottom casing, an intermediate receptacle arranged within the hollow portion of the casing and supported by the latter, a glue holding receptacle introduced into the hollow portion of the intermediate receptacle, a removable heating element supporting means arranged against the bottom of



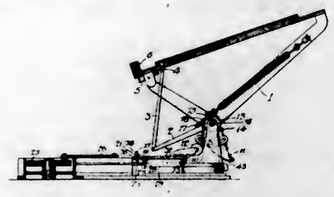
the intermediate receptacle, and means for removably securing said preceding means in operative position.

1,376,824. FRAME FOR HANDBAGS AND POCKETBOOKS. HYMAN MELTZER and LOUIS KARRON, Brooklyn, N. Y. Filed May 8, 1919. Serial No. 295,546. 1 Claim. (Cl. 150—29.)



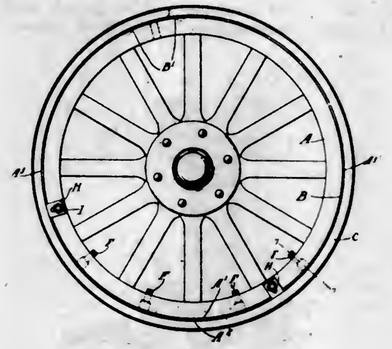
In a hand bag, pocket book or the like, a first jaw member of approximate U-shaped cross section having its bight extended to form a tubular flange which extends at right angles to one of the sides of the jaw member, the intermediate portion of said flange being flattened and recessed, the crown portion of said member being apertured in transverse alinement with said recess, a catch pivotally mounted in the aperture in the crown of said member and having an overhanging lip and a second jaw member pivotally connected to the first member and having a spring tongue projecting from its crown, said tongue being engageable with the catch to lock the jaw members in closed position and the tongue being so located as to rest in the recess when the jaws are in closed position.

1,376,825. MOTOR-DRIVE FOR TARGET-THROWING MACHINES. CHARLES H. NAPIER, Macon, Ga. Filed July 6, 1920. Serial No. 394,114. 5 Claims. (Cl. 124—6.)



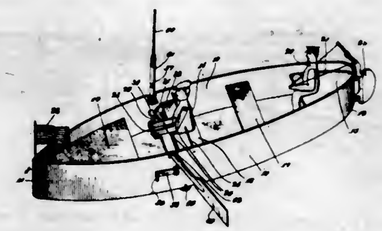
1. A mechanical throwing device comprising a projector, a driving spring for the projector, a motor and connections driven by said motor for energizing said spring, electrically controlled means for releasing said projector, and automatic mechanism for rendering said means ineffective when said spring is energized a predetermined amount.

1,376,826. AUTOMOBILE-WHEEL. ORREL A. PARKER, Cleveland, Ohio. Filed Mar. 6, 1917. Serial No. 152,795. 5 Claims. (Cl. 301—24.)



1. The combination with a demountable tire carrying rim having an integral inwardly projecting tongue at one side thereof, said rim carrying a driving lug at a point substantially opposite said integral lug of a wheel body upon which said rim is adapted to fit, one half of said wheel body being eccentric, the driving lug of said rim being adapted to engage the concentric portion of the wheel body and the integral lug being adapted to be brought into engagement with the eccentric portion of said wheel body, an axial bolt and clamp carried thereby for holding said integral lug in engagement with said wheel body and a radial bolt passing through the eccentric portion of the wheel and adapted to engage the rim and tension the same.

1,376,827. TOY ROWBOAT. PER A. PETERSON, New York, N. Y. Filed Jan. 20, 1920. Serial No. 352,844. 7 Claims. (Cl. 46—87.)



1. A toy row boat comprising a hollow hull, a spring actuated gear train built directly therein, a pair of drive wheels extending below said hull, one adjacent each side thereof, a movable figure in the boat, and means operated by said gear train adapted to cause said wheels to rotate and to move said figure coincidently.

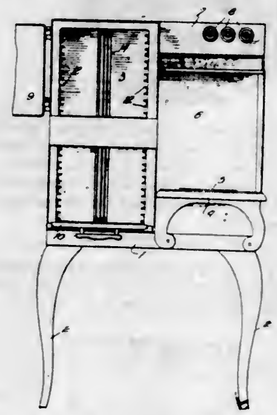
1,376,828. TORCH. JOHN GRAY PETTIS, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,271. 6 Claims. (Cl. 158—27.4.)

6. In a torch a body portion having a passageway therethrough, a valve controlling said passageway, a lever arm fulcrumed at one end of said body for actuating said valve, a latching pin for securing said arm in desired positions, an arm fulcrumed intermediate its ends on said lever arm,



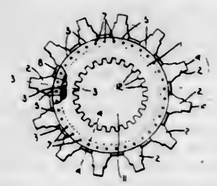
one end whereof engages said pin, and a spring interposed between said arms adapted to hold said pin normally in latched position.

1,376,829. ELECTRIC STOVE. SEBRING I. PHELPS, Wilmette, Ill. Filed May 10, 1919. Serial No. 296,118. 14 Claims. (Cl. 219—19.)



1. In an electric stove, the combination of a cooking compartment, a plurality of ledges arranged along opposite sides thereof, a plurality of removable electric heating elements adapted to be supported on said ledges in varying spaced relation, electrical contact members arranged on each of said heating elements at the rear thereof, a vertically disposed block of insulating material arranged at the back of said compartment, and a plurality of electrical conductors arranged on said block so as to coact with contact members on said heating elements when said heating elements are supported on said ledges.

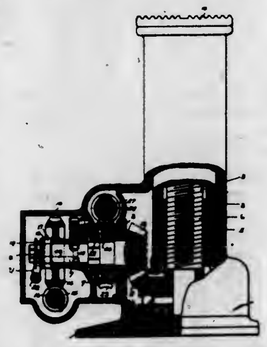
1,376,830. TYPE-WHEEL. FRED A. PUTNAM and CHARLES F. ROBBINS, Keene, N. H., assignors to Markem Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1919. Serial No. 314,709. 3 Claims. (Cl. 101—368.)



2. A type wheel comprising a disk-like body portion having a peripheral groove and a plurality of separate

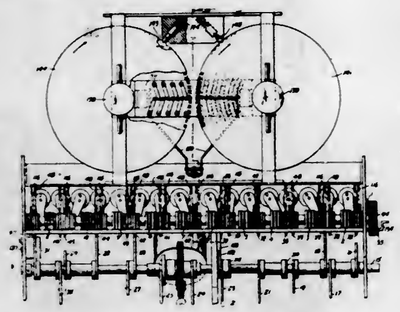
type-bearing members situated exterior to said body and each having a shoulder to fit against the periphery of said body and a foot portion anchored in said groove.

1,376,831. LIFTING-JACK. CHARLES WM. RIPSCH and JAMES C. DAWLEY, Dayton, Ohio. Filed Aug. 16, 1920. Serial No. 403,818. 13 Claims. (Cl. 254—103.)



1. In a lifting jack, a lifting element, a motor operatively connected with said lifting element, means for disconnecting said motor from said lifting element to permit the latter to move downwardly independently of the motor, and means for controlling the downward movement of said lifting element.

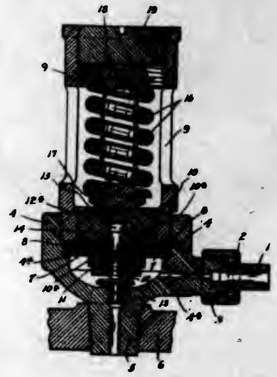
1,376,832. MONEY-VALUE INDICATOR. HENRY ROHWER, Seattle, Wash. Filed Apr. 26, 1917. Serial No. 164,606. 20 Claims. (Cl. 133—4.)



1. In a machine of the character described, the combination of a plurality of indicators, a plurality of indicator operating arms normally ineffective to operate said indicators, means for operatively connecting said arms to said indicators, magnets for selectively operating said means and means for simultaneously disconnecting all of said arms from said indicators.

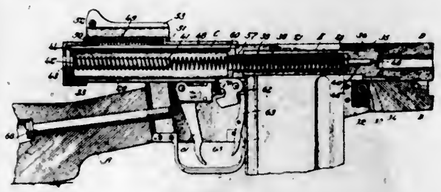
1,376,833. TERMINAL CHECK-VALVE FOR FORCE-FEED LUBRICATING SYSTEMS. WILLIAM J. SCHLACKS, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,706. 5 Claims. (Cl. 184—36.)

5. The combination with a valve casing having an oil chamber with inlet and discharge passages, of a diaphragm seated in said casing and exposed to said oil chamber, a retaining ring seated against the rim of said diaphragm, a spring housing screwed into said valve casing and pressing said retaining ring against said diaphragm, a piston-like spring seat working in close engagement with the lower end of said spring housing and having a reduced hub working in close engagement through said retaining ring and engageable with the upper portion of said diaphragm, a clamping nut having a reduced portion screw-threaded into the reduced hub of said spring seat and having a marginal portion engageable with said diaphragm on the oil exposed side thereof on a line outward of the inner edge of said retaining ring to protect said diaphragm against shearing under excessive oil pressure, and



a needle valve extended axially through said nut and movable with said diaphragm to open and close said discharge passage, an adjustable abutment in the upper end of said spring housing, a coiled spring in said housing axially alined with said needle valve, and upper and lower spring caps engageable with the ends of said spring and respectively with said abutment and valve seat, said spring caps having convex outer faces.

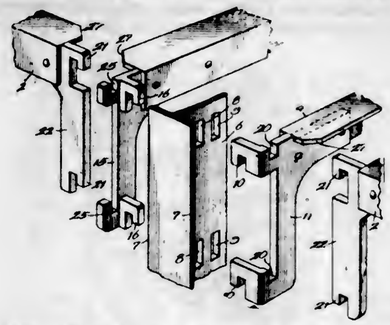
1,376,834. AUTOMATIC FIREARM. CREEDY C. SHEPPARD, Washington, D. C., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed July 9, 1920. Serial No. 394,949. 10 Claims. (Cl. 42—3.)



1. In a firearm, the combination of a receiver, a rotatable and slidable bolt in the receiver, coacting lugs on the bolt and receiver operating when subjected to maximum powder pressure to lock the bolt immovable and effective when subjected to the reduced pressure obtaining as the bullet leaves the bore to impart unlocking movement to the bolt, and an extension on the bolt for imparting a relatively high moment of inertia thereto to properly control its action when energized by said powder pressure.

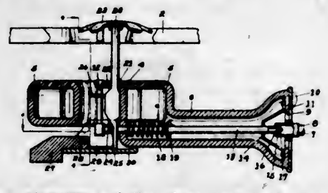
1,376,835. SHELVING. DANIEL W. SHIEK, Aurora, Ill., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Nov. 11, 1918. Serial No. 262,000. 5 Claims. (Cl. 211—27.)

1. In a shelf support of the character described, a plurality of uprights, each provided with two rows of equidistant apertures, arranged longitudinally thereof, a plurality of transverse bars, each provided at the ends thereof, with hook shaped extensions, adapted to engage any



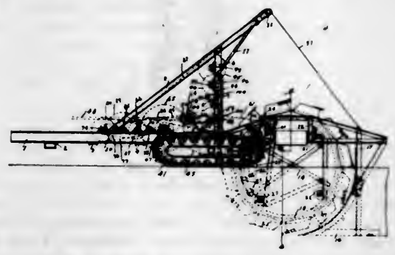
two apertures of a row that are in proximity to each other, and a plurality of bars provided with extensions at the ends, arranged to engage said transverse bars.

1,376,836. GAS-BURNER. MAX. C. SHULER, Charlotte, and EDWIN H. SHULER, Lansing, Mich. Filed Oct. 10, 1919. Serial No. 329,758. 5 Claims. (Cl. 126—52.)



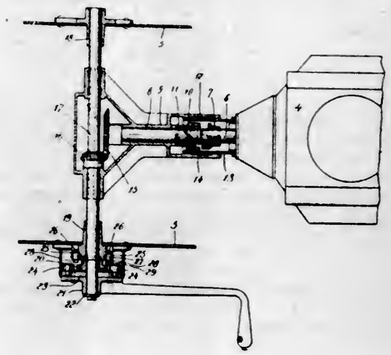
4. In a structure of the class described, the combination of a grid, a main burner, a gas supply nozzle having a valve seat at its inner end, a pilot burner operatively associated with said main burner, a pilot burner supply tube mounted to reciprocate longitudinally and having a valve at its outer end and coacting with said valve seat in said nozzle to control the delivery of gas to the main burner and an inlet opening communicating with the nozzle opening when said valve is closed permitting the passage of gas to the pilot burner, a valve actuating member mounted to reciprocate vertically and adapted to be actuated by an object placed on said grid and having a cam acting on said supply tube to open the valve, a spring arranged to urge said valve to its seat, and a weight pivotally mounted on said burner for returning said actuating member to its initial position.

1,376,837. EXCAVATING-MACHINE. JOHN SOMMER, Peoria, Ill. Filed Feb. 10, 1917. Serial No. 147,785. 2 Claims. (Cl. 37—29.)



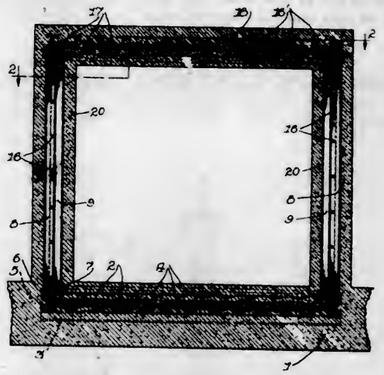
1. In a machine of the character described, in combination, an excavating wheel including spaced annular rings, each provided with internal ring gears, buckets connecting said rings, a supporting frame, a plurality of gear wheels journaled on said frame in mesh with said internal ring gears of said excavating wheel and on which said wheel revolves, one pair of said gear wheels being driving gear wheels, and means for actuating said driving gear wheels.

1,376,838. STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. GREGORY J. SPOHRER, East Orange, N. J., assignor to The Motor-Compressor Company, a Corporation of Delaware. Filed Sept. 21, 1918. Serial No. 255,063. 11 Claims. (Cl. 123—185.)



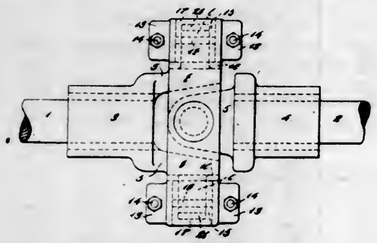
1. Mechanism for starting internal combustion engines comprising a starting member, a ratchet and pawl for connecting the starting member to the engine shaft, and a plurality of releasing devices located about the axis of the ratchet and pawl mechanism and successively moved by the different pawls and each of them adapted to coact with the ratchet and pawl mechanism to disconnect the pawl from the ratchet on backward movement of the starting member.

1,376,839. VAULT CONSTRUCTION. EMIL A. STRAUSS, Chicago, Ill. Filed Apr. 21, 1919. Serial No. 291,596. 7 Claims. (Cl. 109—1.)



1. A vault wall comprising a body of concrete, and a series of similar I-beams embedded therein with their longitudinal edges parallel to and distanced from the wall faces, each two I-beams being spaced from and staggered relative to each other with the edges of all their adjacent flanges disposed substantially equidistantly substantially in the same plane.

1,376,840. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1919. Serial No. 305,642. 6 Claims. (Cl. 64—102.)



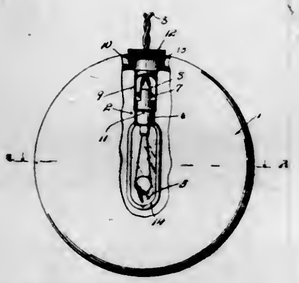
1. In a universal joint, the combination of a pair of shaft sections each having a pair of trunnions, a pair of hollow ring sections each having a journal intermediate the ends thereof and a half journal at each end thereof, the trunnions being mounted in said journals, means for connecting the opposed ends of said ring sections, and means for conducting lubricant from the hollow interior of such ring to the said journals.

1,376,841. LIGHT-REGULATOR. ALLEN A. TIRRILL, Pittsburgh, Pa. Filed May 14, 1919. Serial No. 297,004. 20 Claims. (Cl. 219—48.)



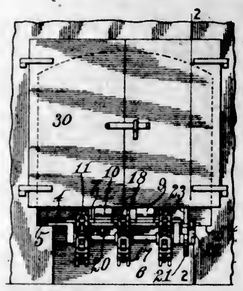
1. In a controller for electric lights, a graduated resistance, a movable member for varying said resistance, and spring restrained means pivoted to swing in the path of movement of said member for limiting the movement of the same in one direction while allowing free movement of said member past the same in the opposite direction.

1,376,842. ELECTRIC WARMER. JOHN W. TUFTS, Milwaukee, and CHARLES LOUIS PETERS, Marinette, Wis. Filed Oct. 20, 1919. Serial No. 331,795. 4 Claims. (Cl. 219—45.)



1. A device of the class described comprising a relatively flat hollow container, an incandescent electric lamp in said container, and deflector plates interposed between the lamp and the adjacent walls of the container.

1,376,843. TWYER-GRATE FOR INDIVIDUAL-GAS-PRODUCER KILNS. JOHN T. UNDERWOOD and LOIS M. UNDERWOOD, Dayton, Ohio. Filed Feb. 18, 1920. Serial No. 359,647. 9 Claims. (Cl. 110—40.)



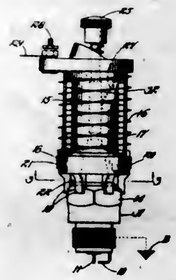
1. In a device of the character described, a stationary fuel support, and an ashes removing device mounted for movement over said fuel support beneath the burning fuel thereon, and means for actuating said ashes removing device to move the ashes toward one edge of said fuel support.

1,376,844. COMBINED SPARK-PLUG TERMINAL AND PROTECTOR. EDMUND HERBERT WEBER, Ranier, Minn. Filed Sept. 16, 1919. Serial No. 324,076. 1 Claim. (Cl. 173—259.)



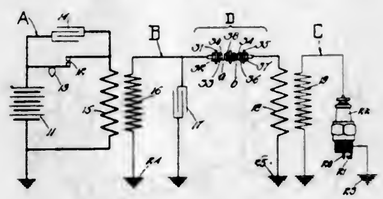
A combined connector and protector for spark plugs and the connections comprising a member of resilient insulating material composed of two portions extending at an angle with respect to each other and cored to fit closely and receive the end of the plug and the connection, each cored portion having a reduced axial extension at its inner end and said extensions communicating to permit the connection to touch the terminal of the plug within the protector, the reduced portion for the plug terminal having a metal liner which is sectional to permit it to be expanded and which has an internal circumferential extending rib for the purpose specified.

1,376,845. IGNITION SYSTEM. RALPH H. WHISLER, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Jan. 10, 1919. Serial No. 270,560. 2 Claims. (Cl. 123—148.)



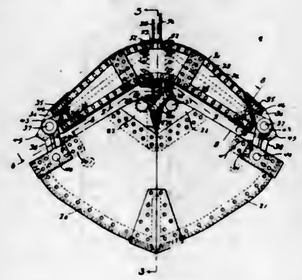
1. In combination with a spark plug having a central electrode the end of which is screw threaded, a coil comprising primary and secondary windings on a spool, and a central member screw threaded for engagement with the spark plug and electrically connected with said secondary winding.

1,376,846. IGNITION SYSTEM. RALPH H. WHISLER, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed May 31, 1919. Serial No. 301,071. 2 Claims. (Cl. 123—148.)



1. An ignition system of an internal combustion engine comprising three circuits, spark timing means in one of said circuits, there being in the first circuit the primary of an induction coil and means for producing therein a varying flow of current; there being in the second circuit the secondary of said induction coil, a condenser charged thereby, a discharge gap and the primary of a disruptive discharge coil; and there being in the third circuit the secondary of the discharge coil and the electrodes of a spark plug in the combustion chamber of the engine, said discharge gap comprising pairs of gap points in series, one pair of said gap points being spaced farther apart than another pair.

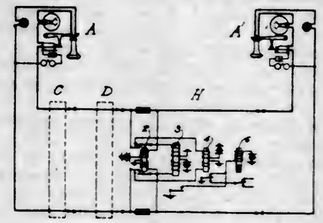
1,376,847. GRAB-BUCKET. FRANK H. WILLIAMS, Buffalo, N. Y. Filed Aug. 17, 1916. Serial No. 115,123. 12 Claims. (Cl. 37—30.)



1. A grab bucket comprising bucket segments, the bucket segments being pivotally mounted at points which remain equidistant from each other throughout their travel, a plurality of girders disposed across the top of the segments and extending near to the outside edges thereof, hinge links connecting the outer ends of the girders with the outer edges of the segments, said links having their lower ends pivotally united to said segments, stops carried by the girders, and stops carried by the bucket segments, both said stops being engageable by said hinge links whereby the lower ends of opposite hinge links will remain substantially equidistant from the vertical central plane of the bucket throughout their travel.

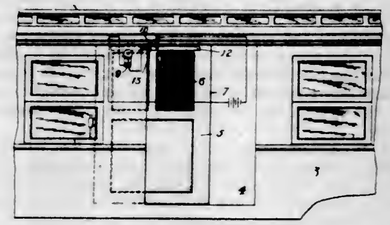
1,376,848. AUTOMATIC TELEPHONE SYSTEM. BERNARD D. WILLIS, Oak Park, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1920. Serial No. 369,790. 8 Claims. (Cl. 179—23.)

1. In a telephone system, an automatic connector switch, a line relay in said switch controllable over the two sides of a calling line in series to operate said switch to connect with a called line, a battery feed relay in said switch, and means operated upon the response of the called subscribed to substitute said battery feed relay for said line relay in the circuit of the calling line, the



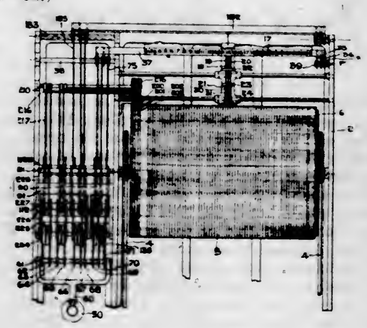
connections being such that the direction of current flow in the calling line is reversed.

1,376,849. CAR-DOOR SAFETY-SIGNAL. ANNA K. WINTER, Brooklyn, N. Y. Filed Oct. 1, 1917. Serial No. 194,217. 1 Claim. (Cl. 40—65.)



In a car, the combination with the wall having a doorway and a door slidable therein, of a large window opening in the door containing a pane of glass that is abnormally conspicuously colored, such as red, the car wall adjacent the doorway being arranged whereby when the door is fully open said window glass will be concealed to outside passengers approaching the doorway, and as the door starts to close the said glass will be at once exposed to outside passengers and illuminated by the normal light inside the car will render the door pane a conspicuous moving signal that the door is closing and warn against entrance into the doorway.

1,376,850. COMPUTING-MACHINE. GEORGE R. WOOD, Montreal, Quebec, Canada, assignor of one-half to William A. Wood, Sr., Montreal, Quebec, Canada. Filed Apr. 20, 1916. Serial No. 92,522. 17 Claims. (Cl. 235—58.)



1. In a computing scale, the combination with the frame thereof and a weight-operated rotary member the

periphery of which is provided with a plurality of sockets; of a carrying member, a series of substantially vertically disposed pins slidably mounted in said carrying member and adapted to enter said sockets, a series of nested U-form rockers overhanging said pins and constructed and arranged to cause the latter to enter the said sockets the arms of the rockers being fulcrumed in the machine frame and indicating mechanism operatively connected to the rockers.

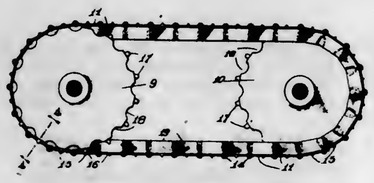
9. In a computing machine, a rotary cylindrical computing member having an even surface with a plurality of drilled openings therein, pins adapted to enter said openings, the bottoms of said openings adapted to limit the movement of the pins, and the sides of the openings constituting guides for the pins during their movement therein, and recording mechanism operatively connected to said pins.

10. In a machine of the type described, a computing member, guiding means located adjacent the perimeter of said member, pins movable to and from said member and extending slidably through said guiding means, rocker devices in operative relation with said pins, collars on said pins and springs encircling the pins and bearing between said collars and guiding means.

13. In a computing machine, a computing member, a carriage located in close proximity to the periphery of said member and movable in a direction parallel to the axis of the latter, said carriage consisting of a unitary member having laterally projecting flanges, pins vertically and slidably mounted in said flanges, and means for moving the pins into engagement with said computing member.

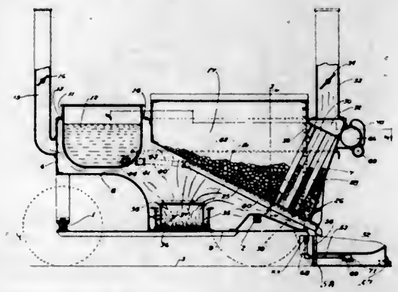
15. In a computing scale, computing mechanism including a movable member, means for indicating the results of the computations, means for controlling the extent of movement of the said indicating means, consisting of a rotary spiral member having its periphery divided to present a plurality of stops and a device movable to and from engagement with the periphery of said spiral member and constructed and arranged to limit rotation of the member, said device being operatively connected to the computing member and having an extent of movement determined by said member.

1,376,851. TRACTION MECHANISM. JAMES M. WORTH, Chicago, Ill. Filed June 2, 1917. Serial No. 172,372. Renewed Jan. 17, 1921. Serial No. 437,962. 3 Claims. (Cl. 305—10.)



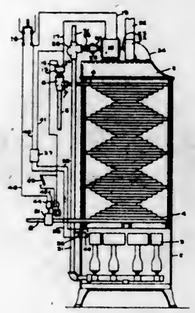
1. Traction mechanism, comprising an endless tractor-element composed of a plurality of cleats having ground-engaging surfaces, while the opposite or upper side is provided with vertically disposed portions of comparative height, the ends of said vertically disposed portions being bent into hook-form, the vertically disposed portions of successive cleats being disposed on opposite sides of the longitudinal center line of the endless element, with the bent ends disposed in opposite directions so as to provide interlocking engagement between the vertically disposed portions of adjacent cleats, the ends of the cleats being provided with alternating extended portions and a recess, with the extended portion of one cleat adapted to enter the recess of the adjacent cleat, said extended portions being provided with registering holes to receive connecting pins.

1,376,852. COMBINATION HEATER AND MAINTENANCE-WAGON. HERMAN P. ANDRESEN, Chicago, Ill. Filed Aug. 27, 1920. Serial No. 406,387. 6 Claims. (Cl. 94—42.)



1. An apparatus embodying therein a material mixing pan and means for supplying heat thereunder, thereby forming a combined surface heater and mixing pan.

1,376,853. AUTOMATIC HOT-WATER HEATER. CHARLES I. BAKER, St. Paul, Minn. Filed Sept. 11, 1917. Serial No. 190,697. 18 Claims. (Cl. 236—20.)



1. The combination, with an automatic water heater having fluid fuel and flue connections, and a water-supply conduit extending to and through the heater; of an electric motor, an electric switch operated by means responsive to the flow of water through said conduit for starting and stopping said motor, an electric circuit for said motor having terminals for connection with a source of electrical energy, and an exhaust fan operated by said motor for creating a suction to remove the products of combustion from the heater.

1,376,854. GUY-ANCHOR. AARON BEARSE, Syracuse, N. Y. Filed June 27, 1917. Serial No. 177,210. 3 Claims. (Cl. 189—92.)

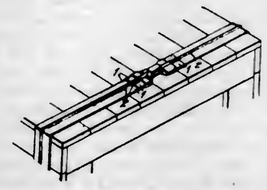
1. A guy anchor comprising a rod having a point at its advance end and a wing foldably mounted on the rod to the rear of the point and foldable into a position along the rod and into the position at an angle to the rod, the wing being formed with a base rigid therewith which coacts with the rod, one of said parts being formed with a lengthwise slot and the other of said parts extending through the slot and having shoulders spaced apart at the rear of the point, the slot and the shoulders being

arranged to permit an endwise and rocking movement of the wing relatively to the rod and limit the movement



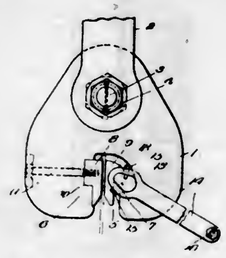
of the wing from rocking movement when the wing assumes a position approximating a right angle to the rod.

1,376,855. STRAP FOR BOX-FASTENINGS OR THE LIKE. WALLACE D. KIMBALL, Chicago, Ill., assignor to Signode System, Incorporated. Filed Jan. 26, 1917. Serial No. 144,626. 3 Claims. (Cl. 217—67.)



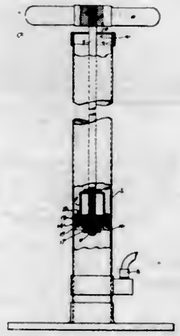
1. A box binder comprising a hard metal strap having a single longitudinal central corrugation, the outside of said corrugation in one end of the strap being adapted to nest in the inside thereof at the other end of the strap whereby the strap ends are held against lateral displacement, but are slidable longitudinally one upon the other when mutually overlapped.

1,376,856. PILE-PULLER. CHARLES S. BOARDMAN, Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Filed Oct. 3, 1917. Serial No. 194,603. 8 Claims. (Cl. 294—104.)



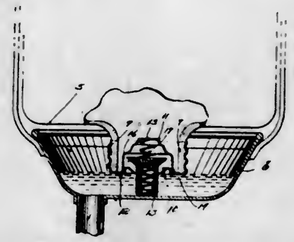
1. A device of the character described, comprising a supporting member, a toggle-cam bearing on the supporting member, coacting gripping jaws, one of said jaws being movably carried by said toggle-cam so as to produce a gripping action under reacting pressures and means operative normally to move said movable cam and jaw into releasing position.

1,376,857. SELF-LUBRICATING PISTON FOR AIR-PUMPS. JOHN H. BRADNACK, New Haven, Conn. Filed July 2, 1920. Serial No. 393,653. 3 Claims. (Cl. 230—27.)



1. An air-pump comprising a cylinder, a piston-rod therein, a grease-cup applied to the lower end of the piston-rod, a porous washer closing the open lower end of the grease-cup, a leather piston-cup bearing against the porous disk, and means for connecting the parts with the piston-rod.

1,376,858. VALVE FOR OIL-STOVE RESERVOIRS. JOHN S. BRENNAN, Milwaukee, Wis. Filed Oct. 6, 1919. Serial No. 328,796. 3 Claims. (Cl. 158—41.)

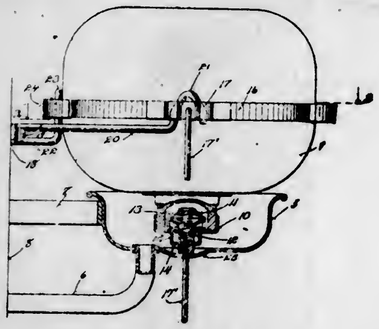


1. A valve structure of the class described comprising a cylindrical casing member adapted to form a receptacle closure member and provided at one end with an annular valve seat, a cup shaped casing member having its open end secured to the first casing member and surrounding said seat, a tubular valve stem extended through the valve seat and having its outer end closed, a valve head enlargement on the inner end of the stem engageable against said seat, and an expansile coil spring disposed in the stem, the coils of the spring being of substantially the same diameter as the inside of said tubular stem, and said spring acting between the outer end of said tubular stem and the bottom of said cup shaped casing member for urging said valve head enlargement against the seat.

1,376,859. FUEL-RESERVOIR. JOHN S. BRENNAN, Milwaukee, Wis. Filed May 18, 1920. Serial No. 382,366. 6 Claims. (Cl. 158—41.)

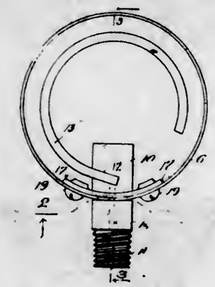
1. In a constant level fuel supply structure, a main support member, an auxiliary receptacle mounted in stationary relation to said main support member, a main receptacle having its neck portion engageable in the auxiliary receptacle, means associated with the neck of the main receptacle, and engaging the auxiliary receptacle to provide vertical support for the main receptacle, lateral support members carried by the main support member and

extending substantially in a horizontal plane located intermediately of the normal position of the main receptacle,



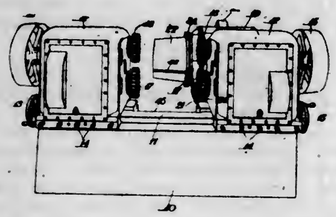
upstanding lug portions on said lateral support members and socket portions carried by the main receptacle for slidably receiving said upstanding lug portions.

1,376,860. GAGE-SOCKET. ERNEST B. CROCKER, Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed June 25, 1920. Serial No. 391,793. 10 Claims. (Cl. 73—100.)



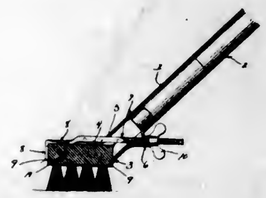
8. In a gage socket structure, the combination with a gage case having a circular wall, said wall having a slot formed therein, in combination with a socket piece having an annular straight walled groove, said socket piece fitting in said slot and the edges of said slot received in said groove, and an anchor plate fitting the contour of the circular wall of the case and secured thereto, and engaging said socket piece.

1,376,861. UNIVERSAL DUPLEX MILLING-MACHINE. FRANK M. DAVIS, Milwaukee, Wis. Filed July 25, 1918. Serial No. 246,700. 5 Claims. (Cl. 90—20.)



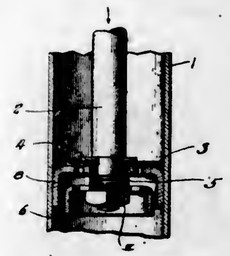
1. A duplex milling machine comprising oppositely positioned cutters independently mounted and spaced apart, a suitably driven arbor adjustable toward and away from the cutters and having a flanged conical end whereby work supporting tables of different widths may be interchangeably fitted onto the conical end of the arbor and against the flange thereof, a work supporting table on said arbor and means for clamping the work to the periphery of said table to be carried thereby between the cutters.

1,376,862. SCRUBBING-BRUSH CLAMP-HANDLE. FRANK DEUTSCH, Cudahy, Wis. Filed Feb. 28, 1921. Serial No. 448,385. 1 Claim. (Cl. 15—54.)



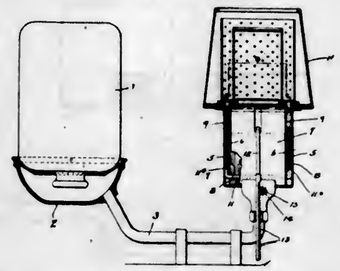
A brush holder comprising a hollow handle receiving ferrule having its bottom end split and flared to form a heel pad and a back pad for engagement with the rear edge and top face of a brush, the ferrule being provided with a rectangular opening in its front wall extending above the back pad, and an alined tubular nipple extending from its rear wall, a flattened headed clip having a downturned gripping claw for engagement with the front edge of a brush, an offset shank extending from the clip head, the same being squared in cross-section for slidable contact with the ferrule back pad and for engagement with the squared ferrule opening, the shank terminating with a threaded end extending through the tubular nipple of the ferrule, and an adjusting nut engaging the threaded end of the clip stem for firmly securing a brush back between the ferrule heel pad and the clip claw, the line of grip being in a plane common to the axis of the ferrule.

1,376,863. PUMP-VALVE. JOHN W. DREW, St. Louis, Mo., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 10, 1920. Serial No. 372,738. 2 Claims. (Cl. 103—63.)



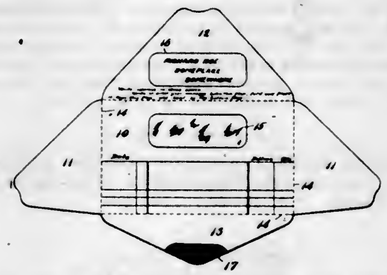
1. A piston valve for pumps comprising a shouldered piston rod, a solid washer held against the shoulder of said piston rod, a sleeve for holding said solid washer in position, a perforated leather cup movably mounted on said sleeve, a perforated metallic washer forming a support for said cup in its suction movement, and a nut arranged on said piston rod for holding said parts in position.

1,376,864. OIL-BURNER. PAUL L. DULANEY, St. Louis, Mo. Filed Apr. 2, 1919. Serial No. 286,931. 8 Claims. (Cl. 158—88.)



1. A tubular oil burner having a tubular wick, an annular oil reservoir for said wick, said reservoir being provided with a transversely disposed chamber, and exteriorly operated means acting through said chamber for raising and lowering the wick.

1,376,865. MAILING BLANK OR SHEET. HERBERT O. FARRINGTON, Kittery, Me., assignor of one-half to Arthur W. Harrison, Boston, Mass. Filed Jan. 26, 1917, Serial No. 144,616. Renewed Nov. 27, 1920. Serial No. 426,879. 2 Claims. (Cl. 229—71.)



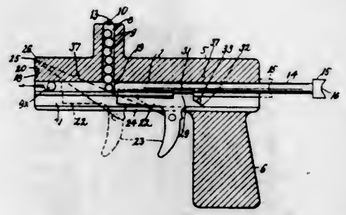
1. A mailing sheet having four creased lines relatively arranged to provide a central rectangular portion, a top flap, a bottom flap and two end flaps, each flap being of less area than the central portion, one of the flaps having a gummed area and all other flaps being ungummed whereby liability of incorrect order of folding and sealing is avoided, the said sheet having at one side of one of its crease lines a window located to register with an address borne by a portion of the sheet at the other side of said crease line when the sheet is folded on said line.

1,376,866. LINK BRACELET. FREDERICK H. FELGER, Newark, N. J., assignor to F. & F. Felger, Inc., Newark, N. J. Filed Dec. 18, 1920. Serial No. 431,533. 2 Claims. (Cl. 59—80.)



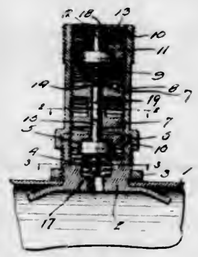
1. A flexible bracelet comprising a series of box-like links, each link having side walls, a transverse bar extending across one end of the link and connecting the side walls, a lip extending from the other end of the link and crimped around the bar of the next adjacent link, the lip being offset from the top of the link.

1,376,867. TOY GUN. ROY FULLER, St. Paul, Minn. Filed Feb. 21, 1921. Serial No. 446,550. 4 Claims. (Cl. 124—14.)



1. In a gun of the class described, a stock having a bore extending throughout its entire length to form a barrel and having below said barrel a longitudinal channel with an upward slit extending into the bore and a downward slit for a trigger, an ejector rod slidable in the barrel and having at its rear end a notched head adapted to stop against the rear end of the stock, a rubber cord engaging in the notch of the head and extending at both sides of the stock and attached to the front end of it, said rod having in its lower side a notch; a trigger movable in the lower slit and having a rod slidable in the channel with some vertical play therein, and provided with a lug arranged to engage in the notch of the rod to pull it rearwardly and to limit the forward movement of the trigger bar, elastic means for holding said trigger bar normally upward and forward, and automatic means for disengaging it from the ejector bar when pulled to firing position, and a magazine arranged to automatically feed bullets into the barrel in front of the ejector rod whenever the latter is retracted.

1,376,868. TIRE-VALVE FOR TRUCK-TIRES. LEONARD O. GIBSON, Rawlins, Wyo. Filed Aug. 27, 1920. Serial No. 406,357. 3 Claims. (Cl. 152—12.)

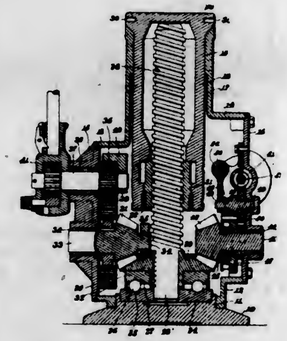


1. In a tire valve adapted to withstand heavy air pressure, the combination of a valve shell, a second valve stem releasably secured to the first valve shell, independently disposed nuts in each of the valve shells, each of said nuts having valve seats, valves seated in the nuts, springs releasably holding the valves on their seats, spindles on which the valves are mounted and means operatively connecting the spindles so that pressure on the upper spindle will unseat both valves.

1,376,869. HIGH-SPEED LIFTING-JACK. FRANK L. GORMLEY, Brookline, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed Sept. 10, 1920. Serial No. 409,420. 10 Claims. (Cl. 254—103.)

1. In a lifting jack, the base; a standard superimposed thereon; a movable member therein; a nut in the lower end thereof; a lifting screw in said nut; a gear secured

to the lower end of said lifting screw; two pinions meshing with said gear; a lifting mechanism adapted to rotate

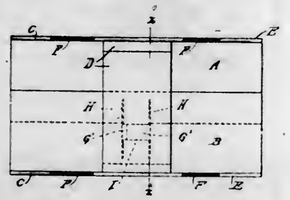


one of said pinions; a brake mechanism and means controlling the operation of said brake mechanism adapted to be actuated by the other pinion.

1,376,870. PROCESS FOR MAKING BEVERAGES. FREDERICK W. GRAFF and JOHN V. OPPEL, San Francisco, Calif. Filed Dec. 21, 1916. Serial No. 138,226. 1 Claim. (Cl. 99—11.)

The process of making a potable mixture which comprises germinating the green beans of a vegetable beverage such as coffee or cocoa to produce a malt thereof, extracting the malt of said material, fermenting the said malt extract, desiccating the said fermented malt extract, roasting said desiccated malt extract, and fermenting said roasted malt extract.

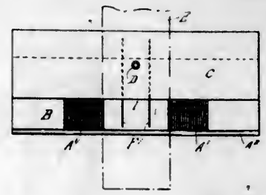
1,376,871. MAILING-WRAPPER. HERMAN L. GREVE, New York, N. Y., assignor to International Mailing Tube and Wrapper Company, a Corporation of New York. Filed July 9, 1919. Serial No. 309,743. 4 Claims. (Cl. 229—92.)



1. A wrapper made of thin flexible material consisting of two longitudinally extending portions held together and relatively adjustable laterally and having a side flap connected to one of said portions and adapted to extend therefrom over the end of the article inclosed to cover and hold the same.

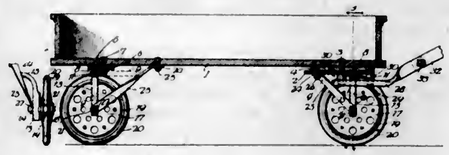
1,376,872. MAILING-WRAPPER. HERMAN L. GREVE, New York, N. Y., assignor to International Mailing Tube and Wrapper Company, a Corporation of New York. Filed July 9, 1919. Serial No. 309,744. 3 Claims. (Cl. 229—92.)

1. A wrapper made of flexible material comprising two longitudinally extending portions having means for holding them together in relatively adjustable relation, and a strip portion held to one of said body portions, in adjust-



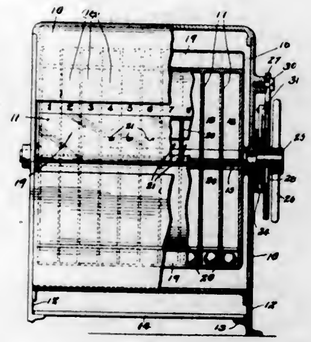
able relation thereto, the ends of which are adapted to overlie the ends of a package held within the wrapper.

1,376,873. JUVENILE WAGON. MARIUS E. GRISWOLD, Burlington, Iowa. Filed Mar. 3, 1919. Serial No. 280,262. 10 Claims. (Cl. 280—87.5.)



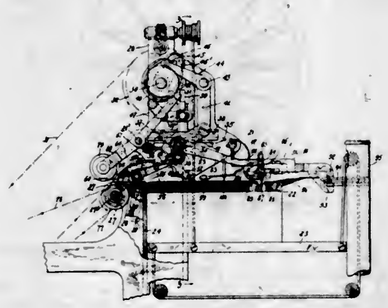
3. In a child's wagon, a support, a folding axle-section hinged to said support and adapted to be down-turned in operative position, a wheel carrying axle-bracket removably engaging said axle-section and means for securing said bracket in place and for holding the same and said folding axle-section in operative position.

1,376,874. GAME APPARATUS. CHARLES W. HAMEL, St. Louis, Mo. Filed May 22, 1919. Serial No. 298,957. 7 Claims. (Cl. 46—56.)



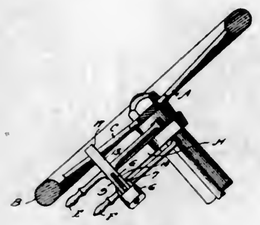
1. In a game apparatus, a housing provided with a sight opening, a container mounted for rotary movement in said housing, said container being divided into a plurality of chambers, a series of distinctively marked play directing objects loosely arranged in each chamber, auxiliary housings arranged on the container so as to provide a series of object receiving pockets, portions of which pockets are transparent, there being openings in the wall of the container to permit the passage of objects from each chamber to the pockets therein, and manually manipulative means for imparting rotary movement to said container and locking the same against movement at predetermined points in its rotation.

1,376,875. PAPER-FEEDING MACHINE. CARL S. HANAU, New York, N. Y.; Dorothy G. Hanau executrix of Carl S. Hanau, deceased. Filed May 18, 1918, Serial No. 235,412. Renewed Sept. 7, 1920. Serial No. 408,774. 10 Claims. (Cl. 271—30.)



3. In a machine for feeding sheets of paper from a stack, the combination with a pneumatically acting reciprocating separating member, of a stationary separating member coöperating therewith and being normally disposed above the top sheet of the stack, means for causing said reciprocating member to become operative at a predetermined point in its travel and at a substantial distance from the beginning of its forward stroke, and means for raising said reciprocating member as soon as operative, thereby elevating the top sheet of the stack onto said stationary separating member.

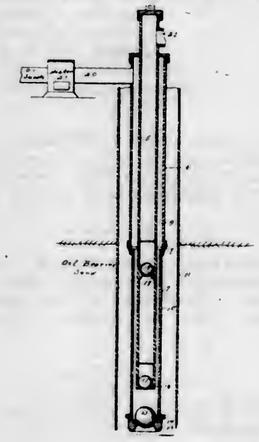
1,376,876. LOCKING DEVICE FOR MOTOR-VEHICLES. ROBERT E. HARRIS, El Paso, Tex. Filed Oct. 14, 1920. Serial No. 416,985. 8 Claims. (Cl. 70—126.)



1. A locking device comprising in combination, a relatively flat elongated body formed with three parallel fingers grouped and separated to provide two intersecting ways open at one end of the body, one of said ways relatively longer than the other and the fingers bounding the shorter way having transverse apertures, and a lock including an element extending through said apertures and across the shorter of said ways.

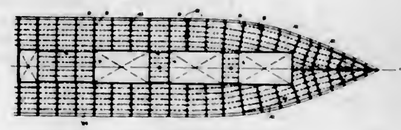
1,376,877. METHOD OF AND APPARATUS FOR PUMPING PETROLEUM-OIL FROM WELLS. JAMES W. HERRON, Oildale, Calif. Filed Apr. 30, 1920. Serial No. 377,862. 5 Claims. (Cl. 103—17.)

1. A pump comprising a tubing, a foot valve for said tubing, a hollow reciprocating plunger disposed in the tubing and of such diameter with respect to the tubing as to lie in spaced relation thereto, throughout its



length, means for supplying a filler of liquid material to the space between the tubing and the plunger, and means for heating said filler.

1,376,878. SHIP. MYRON F. HILL, New York, N. Y., assignor to Cast Steel Ship Corporation, a Corporation of New York. Filed Dec. 19, 1918. Serial No. 267,480½. 86 Claims. (Cl. 114—79.)



1. A ship's hull converging at its forward and after portions and comprising sections of uniform type joined edge to edge, exteriorly and overlapping interiorly.

1,376,879. TYPEWRITING-MACHINE. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 30, 1919. Serial No. 334,389. 15 Claims. (Cl. 197—138.)



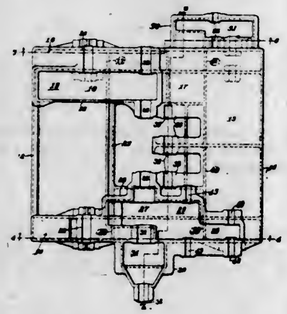
1. In a typewriting machine, the combination of a spring-pressed bar, a carrier for two feed rolls, said carrier having a loose connection with said bar and said bar having in addition an arm acting on said carrier midway between said rolls, said loose connection and said arm together acting to prevent canting of said carrier into a skewed position but permitting such rocking of said carrier as is required to equalize the spring-pressure on the two rolls.

1,376,880. TALKING-MACHINE. RICHARD WILLIAM HORTON, London, England, assignor to Barnett Samuel & Sons, Limited, London, England. Filed Apr. 27, 1920. Serial No. 377,054. 6 Claims. (Cl. 181—27.)



1. A talking machine having a sound deflector of independent angularly related surfaces, and a sound amplifier having independent outlets directing the sound respectively against the angularly related surfaces of the deflector.

1,376,881. TROLLEY-FRAME. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed July 17, 1919. Serial No. 311,479. 5 Claims. (Cl. 105—140.)



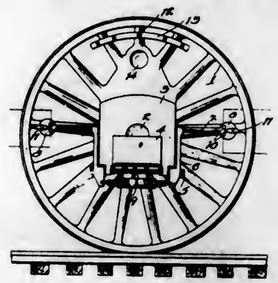
1. As a new article of manufacture, a trolley frame cast in a single piece, bearings formed on the underside of said frame and adapted to receive wheel carrying axles, and bearings formed on the top of said frame and adapted to receive a winding drum shaft and the shafts of the driving connections for said drum carrying shaft.

1,376,882. RADIATOR. JOSEPH A. HROMADKO, New Haven, Conn., assignor to The Motor Radiator & Manufacturing Corporation, a Corporation of Delaware. Filed Oct. 14, 1919. Serial No. 330,597. 4 Claims. (Cl. 257—130.)



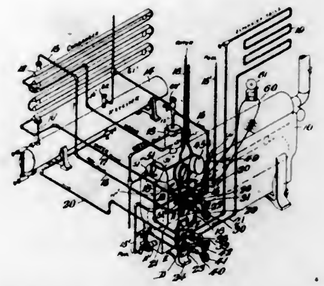
1. A radiator comprising sections each consisting of duplicate opposed plates arranged parallel to each other and connected together at the upper and lower edges to form air passages between them, said plates having protuberances on both faces thereof pressed out from the sheets of which the plates are composed, the inwardly extending protuberances having their ends contacting with one another on the opposed plates comprising the same section and forming spacing means for said plates and also additional water circulating spaces, said plates having outwardly turned flanges on their front and rear edges joined to similar flanges on the adjacent sections to form the water circulating passages of the radiator, the outwardly extending protuberances on the plates of each section being of the same extent as said flanges and having their ends abutting against those of the adjacent section for spacing the sections apart.

1,376,883. ENGINE-INDICATOR. LUDOVIC ESTIS HUNT, Springfield, Mo. Filed Mar. 31, 1919. Serial No. 286,306. 12 Claims. (Cl. 234—21.)



1. A device of the character specified comprising a cylinder for connection with a port of the engine to be tested, a piston in the cylinder and moved by the pressure in one direction, a spring for returning the piston, a series of devices for making permanent records and electrically controlled, an electrical circuit for each device, and a switch for controlling the circuits controlled by the movement of the piston, said switch comprising an annular series of contact bars, each bar being connected to one terminal of a circuit, a switch arm connected to the other terminals of the circuit and pivoted at the center of the series, and a connection between the piston and the arm for rotating, said arm about its center, means for varying the tension of the spring, and means for indicating the said tension.

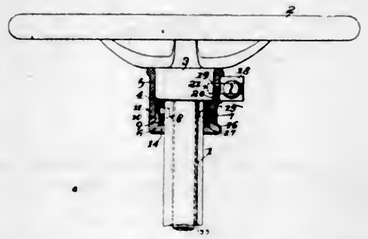
1,376,884. SYSTEM OF CONTROL FOR INTERMITTENT-ABSORPTION REFRIGERATING PLANTS. DANIEL D. HUYETT and ALBERT L. REGISTER, Philadelphia, Pa., assignors to Vacuum Refrigeration Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 3, 1918, Serial No. 238,017. Renewed Sept. 28, 1920. Serial No. 413,440. 9 Claims. (Cl. 62—118.)



1. In a system of control for intermittent-absorption refrigerating plants, a generator-absorber, a dehydrator, a condenser and receiver, means for heating the generator-absorber, water cooling means for the generator-absorber, said parts being operatively connected by pipe lines and a plurality of independent, centralized, groups of manually operable valves controlling the flow through said pipe lines, each group consisting of a series of valves interconnected to move in unison and so arranged that for a heating or generating period the setting of a single valve of one group closes the ammonia liquid supply from said receiver, closes the ammonia gas return to said generator-absorber and opens the generator-absorber cooling water supply and which valves are so arranged that the setting of a single valve of the remaining group opens

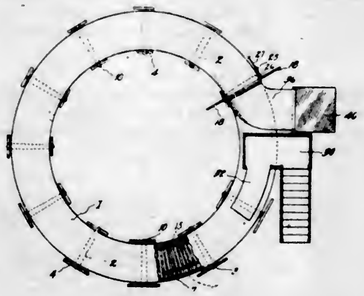
the ammonia discharge from said dehydrator, opens the condensing water supply and closes the generator-absorber cooling water supply and opens the means of fuel supply to said heating means.

1,376,885. AUTOMOBILE-LOCK. WILTON F. JENKINS, Richmond, Va. Filed July 15, 1919. Serial No. 311,001. 3 Claims. (Cl. 70—129.)



1. An automobile lock, comprising a collar to be applied to a fixed column, said column housing a steering shaft, a sleeve, with a recess, concealing the collar; securing means carried by the collar, entering the column and including a portion fitting in the recess; other securing means including a threaded stud passing through the sleeve and collar into the column, having an accessible head with a non-circular opening to receive a specially formed wrench, a locking bolt to engage a part of the steering shaft, and a key-lock carried by the sleeve, for securing said bolt when in proper shaft-engagement.

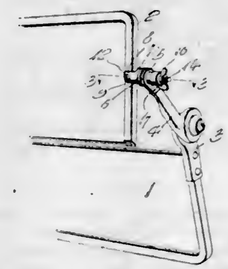
1,376,886. AMUSEMENT DEVICE. CHARLEY JOHNSON, Seattle, Wash., assignor of one-half to Charles W. Parker, Leavenworth, Kans. Filed Feb. 24, 1920. Serial No. 360,714. 3 Claims. (Cl. 104—53.)



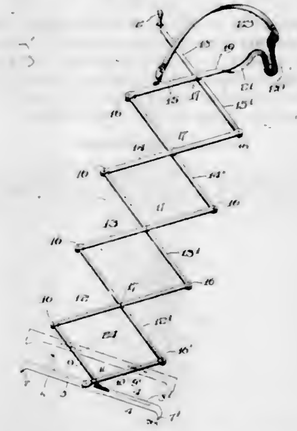
1. An amusement device of the character described comprising a continuous conveyer belt adapted to move spirally downward about a vertical axis under the influence of weight placed thereon, means whereby people may mount the belt at a high point of its course to be carried thereon toward the lower point, and a chute for receiving them from the belt at said lower point to remove them from the belt.

1,376,887. AUTOMOBILE-WINDSHIELD ATTACHMENT. CLARENCE V. JOHNSON, Yates Center, Kans. Filed Feb. 27, 1920. Serial No. 361,616. 1 Claim. (Cl. 296—92.)

An attachment for adjustably supporting the upper section of an automobile windshield comprising an arm having means at one of its ends for pivotal connection to the usual bracket carried by the lower stationary windshield section and provided at its other end with a centrally apertured circular head which is in turn provided on its inner face with radial corrugations, an attaching member for engagement with the upper wind-shield section, including a substantially cylindrical transversely notched portion and a disk-like portion, the latter being provided on its face adjacent said head with radial corrugations for coöperation with the first named corrugations, and the former providing spaced arms which are apertured for reception of an attaching bolt, the upper wind-shield section being adapted to be received between them and held, said attaching member being provided with a central opening to register with the opening in said head and being further provided with a bolt head receiving seat, a bolt to extend through the central openings in the attaching member and head, its head to rest in said seat and its other end to extend beyond said head, a nut to be on the extended portion of the bolt, and a coiled spring to surround said bolt between the nut and the head.



1,376,888. TRENCH-WEAPON. SAMUEL M. KASS, Philadelphia, Pa. Filed July 3, 1918. Serial No. 243,243. 10 Claims. (Cl. 30—9.)



1. In a trench weapon, a lazy tongs, bridging means for throwing and restricting a weapon, in combination with a knife carried thereby having its blade transverse to the direction of throw of the lazy tongs during the greater part of the movement of the lazy tongs.

1,376,889. LAKE OR POND. JAMES B. KIRBY, Cleveland, Ohio. Filed Nov. 24, 1919. Serial No. 340,145. 14 Claims. (Cl. 61—2.)

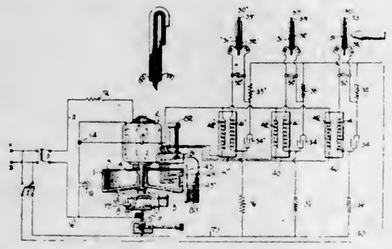
1. In combination, a pair of dams spaced along an open water-course, a conduit communicating with said

water-course and extending thence to a point below the lower dam, means for permitting the flow past the upper dam of the amount of water ordinarily flowing in



said water-course in fair weather, and means for diverting into said conduit all water in excess of such fair weather amount.

1,376,890. CHRONOGRAPH. ALFRED L. LOOMIS, U. S. Army, PAUL E. KLOPSTEG, Philadelphia, Pa., PAUL G. AGNEW, Washington, D. C., and WINFIELD H. STANNARD, Glen Echo, Md. Filed Nov. 7, 1919. Serial No. 336,411. 20 Claims. (Cl. 234—36.5.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



2. The method of recording projectile velocities which consists in causing the projectile to close the discharging circuit of a constantly charged capacity; converting the discharged energy into a spark; and recording the spark discharge on a record surface moving with constant speed, and maintained in place by centrifugal force.

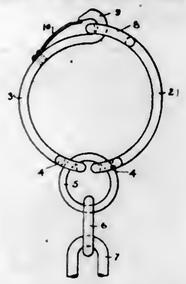
1,376,891. ORGAN-PIPE. CHARLES S. LOSH, New York, N. Y. Filed June 23, 1916. Serial No. 105,416. 3 Claims. (Cl. 84—349.)



1. An organ pipe having perforations in one of its sides and a membrane overlying said perforations and adapted to be vibrated by the pusations of air within said pipe against the perforated surface of the pipe.

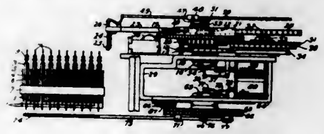
1,376,892. RING USED IN CONNECTION WITH ANIMAL-TRAPS FOR FASTENING END OF CHAIN TO OBJECTS. LAURENCE CLARK LUNT, New Haven, Conn. Filed July 26, 1919. Serial No. 313,632. 2 Claims. (Cl. 43—96.)

1. A two-part anchoring-ring for the chains of animal-traps, the said ring comprising two independently formed substantially semi-circular loosely connected complementary members, each having fastening means at each end,



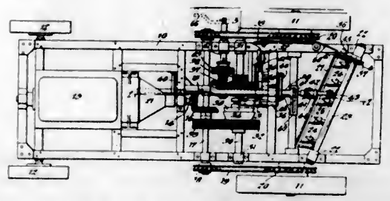
and the fastening means at the outer ends of the respective members constituting the major elements of a snap-fastening.

1,376,893. TELEPHONE SWITCHING APPARATUS. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 13, 1918. Serial No. 234,180. 18 Claims. (Cl. 179—27.5.)



1. In a switch, a contact bank, a plurality of incoming circuits and a plurality of outgoing circuits terminating in said contact bank, a plurality of contact making members, each adapted to establish a connection between one of the incoming and one of the outgoing circuits, a switching mechanism arranged for a plurality of selective movements, means for operating said mechanism to select one of said contact making members, and means for operating the selected contact making member.

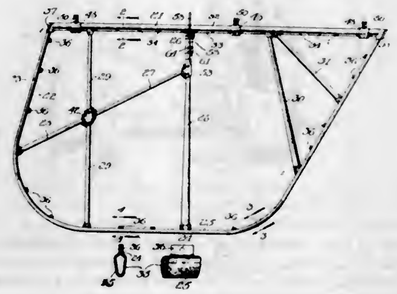
1,376,894. PLOW-LIFTING MECHANISM FOR TRACTORS. DOMINICK MILITELLO, Buffalo, N. Y. Filed Nov. 8, 1920. Serial No. 422,413. 3 Claims. (Cl. 97—70.)



1. In a device of the character described, the combination of a tractor frame, a beam journaled transversely thereof for oscillatory movement, and carrying a plurality of implements, a laterally shiftable gear rack arranged lengthwise of said frame, a connection between said beam and said rack, the rack being laterally movable independently of said connection, a driving gear, and means for shifting said rack into and out of engagement with said driving gear.

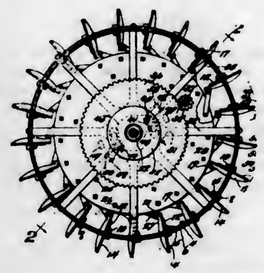
1,376,895. FRAME STRUCTURE. DANIEL J. MURNANE, Chicago Heights, Ill. Filed Nov. 27, 1918. Serial No. 264,313. 19 Claims. (Cl. 244—31.)

1. A frame-structure formed of marginal frame-members comprising hollow portions, each with a pair of flanges integral therewith, said flanges opposing each other and extending lengthwise of said hollow portions



carrying them, and cross-members straddling said flanges and in such condition connected therewith.

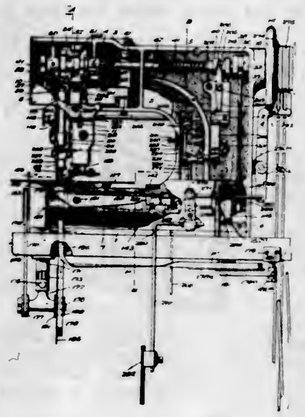
1,376,896. TRACTION-WHEEL. LEROY H. NOAH, Palco, Kans., assignor of one-fourth to Joseph E. Robeson and one-fourth to Raymond E. Teall, Palco, Kans. Filed Mar. 20, 1920. Serial No. 367,438. 3 Claims. (Cl. 301—46.)



3. In a tractor wheel, the combination with a rim provided with a plurality of tractor elements movable to radial or collapsed positions relative to the rim, means movable with the wheel and being movable relatively to the rim and having connections with said tractor elements for changing their positions, a locking device for said means, said locking device comprising a spring tensioned yoke carried by said means and being movable laterally relative thereto and means carried by the wheel and connected to the yoke for imparting lateral movement to the yoke to permit the tractor element actuating member to be moved.

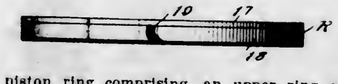
1,376,897. PERFORATING-MACHINE. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed May 6, 1918. Serial No. 232,744. 44 Claims. (Cl. 164—88.)

1. In a perforating machine, in combination, a reciprocable punch, and means for positively reciprocating said punch in opposite directions, said means including a rotatable drive shaft and a cam device carried thereby, said cam device comprising a pair of spaced apart cams each



moving said punch in one direction only and having their active portions upon the same side of the shaft.

1,376,898. PISTON-RING. JOHN O'NEAL, St. Louis, Mo., and JOHN F. HAEPPNER, East St. Louis, Ill. Filed Jan. 2, 1920. Serial No. 348,766. 3 Claims. (Cl. 74—109.)



3. A piston ring comprising, an upper ring obliquely split and provided with an annular shoulder on the outer periphery thereof and an inwardly inclined surface below said shoulder, a lower ring obliquely split and having an inner inwardly inclined surface against which the inclined surface of the upper ring is adapted to bear, each of said rings having tapered ends with the confronting side of one of the ends concaved and the confronting side of the other end convexed, and shoulders formed on the extreme ends of the rings to prevent overlapping of the ends.

1,376,899. SAFETY-CATCH. LOUIS A. PAGE, Providence, R. I., assignor of one-half to Edwin B. Evans, Providence, R. I. Filed Oct. 8, 1920. Serial No. 415,661. 4 Claims. (Cl. 24—157.)

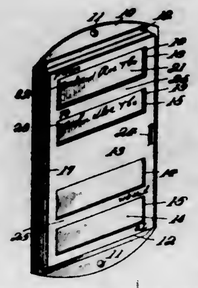


4. A safety catch comprising a keeper-member formed of a pair of hook-shaped arms set side by side, the inner side walls of said arms being spaced to provide a slot between them, the end of one hook arm extending beyond that of the other, and a gate-member pivoted to swing between said arms from the back of said hook toward the front thereof to close it, the free end of said gate being adapted to swing past the longer hook and abut against the shorter end thereof when closed.

1,376,900. ADDRESS DEVICE. ANDREW TRUST POEHLMANN, Catonsville, Md. Filed Apr. 21, 1919. Serial No. 291,445. 4 Claims. (Cl. 40—16.)

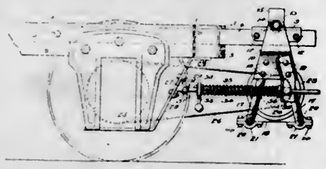
1. An address device of the character described comprising a holder having sight openings contiguous to both

ends, locking means carried by said holder, and an address carrier having spaced apart flanges either of which may be engaged with said locking means to prevent accidental removal of said address carrier, the flange distant from



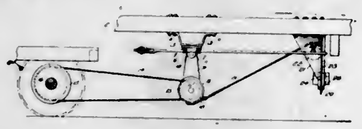
that engaged by the locking means being exposed for convenient engagement to withdraw said address carrier from the holder, said address carrier having means for exposing an address through either of the sight openings of the holder.

1,376,901. CAR-AXLE-DRIVEN DYNAMO. CHARLES H. QUINN, Roanoke, Va. Filed Nov. 18, 1919. Serial No. 338,863. 8 Claims. (Cl. 105—106.)



1. In a car truck, the combination with a pivotally supported cradle, of a dynamo, connected to said cradle, means for operatively connecting the dynamo to the truck axle, and means positioned between the truck and cradle and outside of the truck wheels for maintaining the said connecting means under tension.

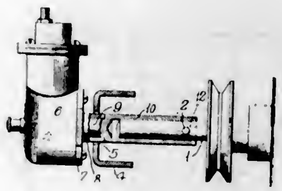
1,376,902. TENSIONING DEVICE FOR AXLE-DRIVEN GENERATORS. CHARLES HENRY QUINN, Roanoke, Va. Filed Nov. 30, 1920. Serial No. 427,376. 4 Claims. (Cl. 105—106.)



1. In a car underframe, the combination with a generator swingingly mounted upon said underframe, of means for operatively connecting said generator to a source of power, and flexible means for connecting said generator to a gravity acting tensioning device and means carried by said underframe for guiding the movements of said tensioning device.

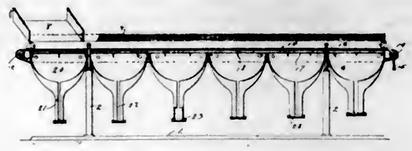
1,376,903. PUMP FOR MOTOR-VEHICLES. SILAS A. STRICKLAND, Detroit, Mich., assignor to Detroit Accessories Corporation, Detroit, Mich., a Corporation of Michigan. Original application filed Dec. 13, 1915, Serial No. 66,513. Divided and this application filed Aug. 5, 1918. Serial No. 248,498. 8 Claims. (Cl. 230—27.)

1. In combination with a fixed portion and a driven shaft of a motor vehicle and a detachable tire pump having a pump shaft in substantial alinement with and detachably coupled to the driven shaft, means for engaging the fixed portion of the vehicle to prevent rotation of the pump



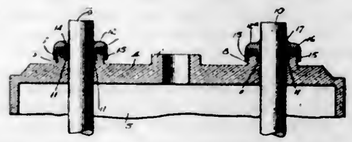
body in both directions in respect to the driven shaft, said means comprising a member that is brought into rotation preventing relation with the fixed portion by a sliding endwise movement longitudinally of the shaft.

1,376,904. COIN-SORTER. EMIL C. STUMME, Readlyn, Iowa. Filed Dec. 22, 1919. Serial No. 346,640. 4 Claims. (Cl. 133—3.)



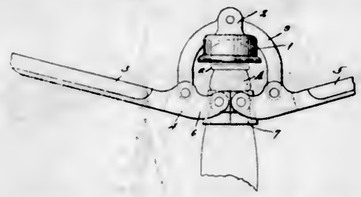
3. In a coin sorter, the combination with parallel strips spaced to form a channel, means for supporting them, a grid carried by the supporting means beneath said strips and having its cross bar variously spaced in groups throughout its length and receptacles beneath the several groups; of guides within said support and an endless carrier movable over the grid between it and the strips toward the end of the widest spacing of the grid bars.

1,376,905. SEAL FOR BATTERIES. NORMAN D. STURGES, Bellerose, N. Y., assignor to Multiple Storage Battery Co., a Corporation of New York. Original application filed Apr. 24, 1918, Serial No. 230,434. Divided and this application filed Oct. 24, 1919. Serial No. 333,015. 6 Claims. (Cl. 204—29.)



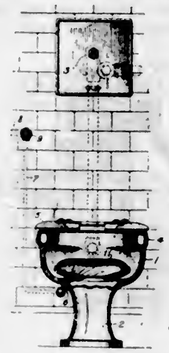
4. In a seal for batteries, the combination of a battery cover provided with a threaded portion serving as a neck, a terminal post made of metal and extending through said threaded portion, means coacting with said neck and said battery cover for preventing leakage therebetween, and a sealing ring provided with a threaded portion engaging said first mentioned threaded portion, said sealing ring being further provided with an integral connection with said terminal post.

1,376,906. BOTTLE-CAPPER. JOHN J. TOKHEIM, Cedar Rapids, Iowa. Filed Aug. 28, 1919. Serial No. 320,408. 3 Claims. (Cl. 226—84.)



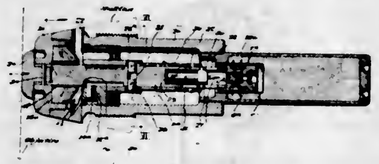
1. A capper including a tension yoke, a capper head connected to an intermediate portion thereof, levers connected to the terminals of the yoke, and bottle gripping jaws connected to the levers.

1,376,907. WATER-CLOSET BOWL. ALBERT G. WOOD, Jr., Detroit, Mich., assignor to Henry Ford Hospital, Detroit, Mich., a Corporation of Michigan. Filed Jan. 8, 1918. Serial No. 210,824. 4 Claims. (Cl. 4—18.)



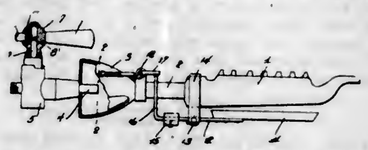
1. As a means for rendering a water closet hopper available for the cleansing of bed pans or like utensils, a hopper adapted for normal water closet operation and having a configuration to locate the utensil in position to discharge its contents within the normal liquid content of the hopper, and controllable means adapted to produce a water supply under pressure to the interior of the utensil so located to permit utensil cleansing with the drainage discharging into such hopper content.

1,376,908. DELAY-ACTION MECHANISM FOR FUSES. JOHN H. WOODBERRY, U. S. Army. Filed Dec. 10, 1918. Serial No. 266,145. 19 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



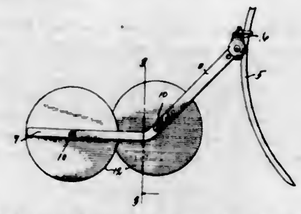
13. In a fuse, the combination, with a fuse-stock, of a plunger carrying, at its rear end, a detonator having a recess in its rear end, of a readily crushable, substantially U-shaped member, of spring material, removably held in said recess.

1,376,909. SAFETY DEVICE FOR GAS-RANGES. WALTER J. WODRASKA, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,651. 3 Claims. (Cl. 126—42.)



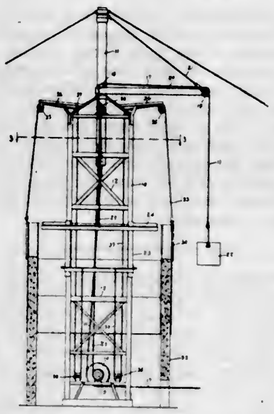
1. In combination with a gas burner having an exposed gas jet, of a shallow pan pivotally mounted beneath the burner, a closure valve normally open and adapted to engage the end of the said gas jet to close the same, and means connected to the pivotally mounted pan and to the said valve member whereby the valve member may be closed over the end of the gas jet when the pan is depressed beneath the burner.

1,376,910. ROLLING FENDER. JOSEPH HANSEL WRIGHT, Henderson, Tex. Filed Oct. 10, 1919. Serial No. 329,798. 2 Claims. (Cl. 97—13.)



2. In a device of the character described, the combination of a horizontally extending supporting bar having an upwardly extended extension at its forward end, said supporting bar being offset intermediate its ends, bolts carried by said supporting bar beyond each side of the offset portion, a reinforcing bar carried upon said bolts, and provided with an offset portion intermediate its ends substantially in transverse alinement with the offset portion of said supporting bar, disks rotatably mounted upon said bolts and overlapping each other, thus causing the disks to be positioned between said bars and to overlap contiguous to the offset portions of said bars, as and for the purposes set forth.

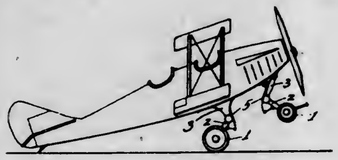
1,376,911. MEANS FOR BUILDING CONCRETE STRUCTURES. IRA ABRAM, Dugger, Ind. Filed July 21, 1919. Serial No. 312,327. 2 Claims. (Cl. 25—124.)



1. A structure for building silos and the like, consisting of a tower, removable forms for molding the mate-

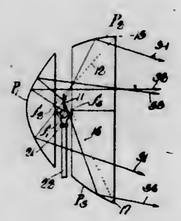
rial surrounding said tower, a platform slidably mounted on said tower, a cable having one end secured to said platform and the other end removably attached to said forms for hoisting them in position, and means for operating said cable, said cable being so arranged whereby said platform and forms will remain in constant relation with each other and said platform may be lowered and elevated with each new set of forms to be used.

1,376,912. LANDING-GEAR AND SHOCK-ABSORBER FOR AIRCRAFT. GAETAN AJELLO, New York, N. Y. Filed Aug. 27, 1918. Serial No. 251,617. 11 Claims. (Cl. 244—2.)



1. In a landing gear and shock absorber for aircraft, the combination of a pair of arms jointed together for relative movement, a wheel journaled upon one of the arms, resilient means acting upon the arms tending to prevent the flexing thereof at the joint and to restore the arms to normal extended position after being flexed, and friction disk means secured to the joint serving as a resistance against the too rapid relative movement of the arms.

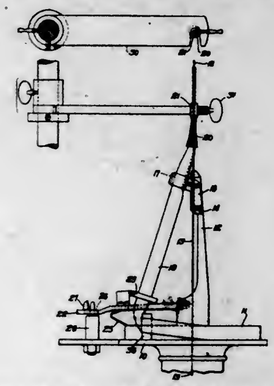
1,376,913. PROJECTION APPARATUS. ADELBERT AMES, Jr., Tewksbury, Mass. Filed Oct. 11, 1916. Serial No. 125,109. 5 Claims. (Cl. 240—41.)



1. Projection apparatus comprising a light source having at least one substantial dimension, a reflector positioned rearwardly of the light source with a portion of its reflecting surface on each side of a horizontal plane through the light source, and a reflector positioned forwardly of the light source with a portion of its reflecting surface on each side of said plane, the two reflectors being shaped and positioned with their foci axially spaced apart and with the focus of the rear reflector substantially in the light source, so that light is projected in and below a horizontal direction without projecting substantially any light upwardly.

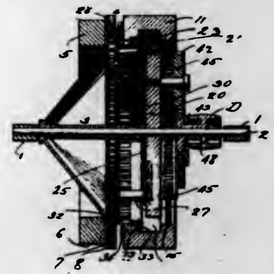
1,376,914. WINDING MECHANISM. ROBERT P. ASHBAUGH, River Forest, and SAMUEL C. CAWTHON, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Mar. 25, 1919, Serial No. 285,000. Divided and this application filed July 10, 1920. Serial No. 395,298. 6 Claims. (Cl. 28—6.)

2. In a head for insulating conductors with tape, a tape supply roll, a rotatable support through which the wire to be covered is drawn, and a tape guide and former carried by said wire guide for



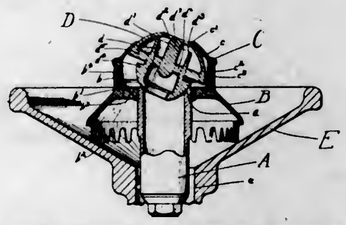
lapping one margin of said tape and guiding it onto the wire.

1,376,915. PLANETARY GEARING. JOHN S. BARNETT, North Bend, Oreg. Filed Mar. 2, 1920. Serial No. 362,721. 6 Claims. (Cl. 74—34.)



1. A planetary gearing comprising a power element having an internal gear, a fixed drum having an internal gear, a disk concentrically mounted within the drum, a gear ring eccentrically mounted within the drum and in constant mesh with its gear at one point, a pinion pivoted to the disk at the midlength of the crescent between the drum and ring, the pinion having teeth in mesh with said ring and in mesh with the gear of the power element, and a driven element connected with said disk.

1,376,916. BUBBLER FOR DRINKING-FOUNTAINS. THOMAS E. BART, Cincinnati, Ohio, assignor to The Murdock Manufacturing and Supply Co., Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 5, 1920. Serial No. 363,622. 5 Claims. (Cl. 299—12.)



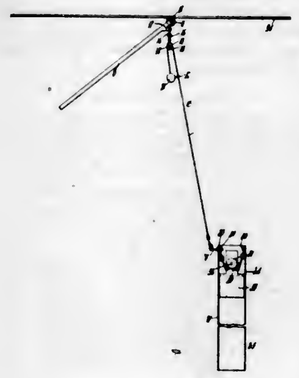
1. A bubbler comprising a supply pipe, an apron attached to the pipe, a cap engaging the apron and an adjustable director adapted to be retained between the pipe, the apron and the cap.

1,376,917. GUN-STOCK FOR RIFLES, GUNS, AND SMALL-ARMS. NELSON P. BUMP, Bridgeport, Conn., assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Filed May 29, 1918. Serial No. 237,324. 3 Claims. (Cl. 42—71.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A method of forming composite gun-stocks, which consists in forming laminated planks, the laminations being previously steamed to remove the sap and then slowly kiln dried, the grain in the outside laminations being selected to run in the general direction from lower point of the butt to the fore-end of the stock.

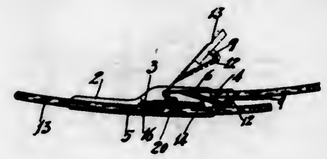
1,376,918. TROLLEY-CONTROLLING DEVICE. FRANCIS H. BURNHAM, Brockton, Mass. Filed Sept. 23, 1920. Serial No. 412,180. 5 Claims. (Cl. 191—94.)



1. A controlling device for a trolley having, in combination, a trolley pole, a trolley wheel rotatably mounted on said trolley pole, means for normally holding said wheel in engagement with the trolley wire, a rotary member suspended from said trolley pole, a flexible member extending over said rotary member, a primary weight on one end of said flexible member, a secondary weight connected to the other end of said flexible member, locking means adapted to engage said flexible member between said rotary member and said secondary weight to normally hold said secondary weight suspended and inactive, said flexible member being adapted to be disengaged from said locking means to allow said secondary weight to drop when said flexible member is prevented from moving relatively to said rotary member, whereby said trolley pole may be moved downwardly by said secondary weight.

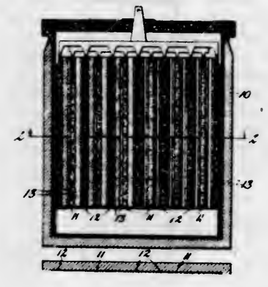
1,376,919. BUCKLE. JOHN F. CARPMILL, New Britain, Conn. Filed Jan. 12, 1921. Serial No. 436,782. 3 Claims. (Cl. 24—170.)

1. A buckle comprising a body having a bottom and side flanges, a terminal member pivotally mounted between the side flanges and to which a web may be connected, a locker pivoted between said flanges, the terminal member having a depending flange furnished with a lug and the locker having a slot to receive the lug whereby upon lifting of the terminal member the lug will act to lift the locker, the flanges of the terminal member acting against



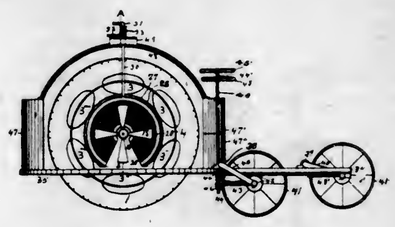
the locker when the terminal member is swung down to set the locker into engagement with the web under the locker.

1,376,920. PLATE FOR STORAGE BATTERIES AND METHOD OF MAKING SAME. RUFUS N. CHAMBERLAIN, Chicago, Ill., assignor to Gould Storage Battery Company, Depew, N. Y., a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,525. 5 Claims. (Cl. 204—29.)



2. A storage battery plate comprising a body provided with a plurality of ribs the outer edges of which are upset so that they are flush and a filling of active material arranged between said ribs.

1,376,921. TRACTOR OR OTHER AUTOMOTIVE VEHICLE. ELBERT E. CHANDLER, Eagle Rock, Calif. Filed Feb. 2, 1920. Serial No. 355,831. 7 Claims. (Cl. 180—17.)

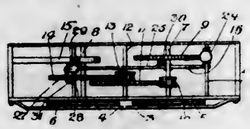


1. The combination in a tractor of right and left driving wheels, a shell wheel between them and diamond shaped T's, attached to the wheels and to each other and resting on the shell wheel.

1,376,922. TYPEWRITING-MACHINE. THOMAS MERCER COPELAND, Edendale, Auckland, New Zealand. Filed Sept. 23, 1919. Serial No. 325,675. 3 Claims. (Cl. 235—102.)

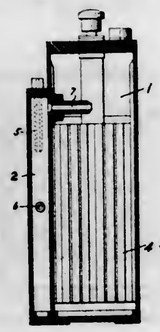
1. A counter for typewriters including a casing, unit and follo dials rotatably mounted therein, gearing between

the dials, a clock spring connected with the axis of the folio dial, a ratchet wheel connected so as to move with the unit dial, an arm fulcrumed in the casing and having one end connected with the space bar and tracker of the



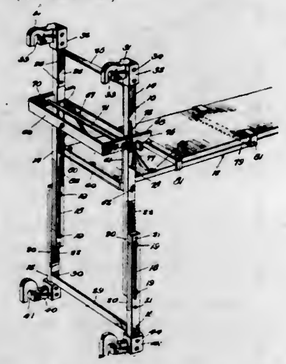
typewriter, a spring controlled operating pawl pivoted on the other end of the arm and engaging the ratchet wheel, a second spring pawl engaging the teeth of the ratchet wheel and projecting exteriorly of the casing and a cut out device for rendering counter inoperative.

1,376,923. NON-SPILLABLE BATTERY JAR OR CONTAINER. HERBERT DEAN, Clifton Junction, near Manchester, England. Filed Oct. 24, 1918. Serial No. 259,528. 5 Claims. (Cl. 204—29.)



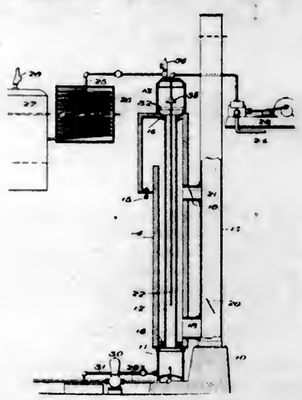
1. A non-spillable battery jar or container comprising three intercommunicating compartments of which one (3, 3^a, 3^b) is provided with an atmospheric vent, another (1) in adapted to contain the plate structure and provide space for electrolyte in all positions of the container, and of which the third (2, 2^a, 2^b) is interposed between the other two and communicates with the second by an opening above the electrolyte level in all positions of the container, substantinlly as described.

1,376,924. SCAFFOLD. ALBERT P. DIXSON, Bronson, Kans. Filed June 4, 1920. Serial No. 386,528. 10 Claims. (Cl. 304—3.)



1. A scaffold comprising a frame having means for engaging a support, a stirrup pivotally carried by the frame, and a platform carried by said stirrup.

1,376,925. PROCESS OF PRODUCING FUEL. EDWARD C. D'YARMETT, Muskogee, Okla. Filed Mar. 24, 1916. Serial No. 86,525. 6 Claims. (Cl. 196—25.)



1. The process which consists in introducing natural gas under pressure into a body of heated hydrocarbon liquid, permitting the vapors of the liquid and gas to commingle above said liquid under pressure appreciably higher than atmospheric pressure, and subsequently cooling and condensing any condensable portions of the blended mixture resulting therefrom.

1,376,926. SANITARY TOILET APPARATUS. CHARLES W. FISHER, Wellsville, Kans. Filed Apr. 7, 1919. Serial No. 288,379. 9 Claims. (Cl. 4—18.)



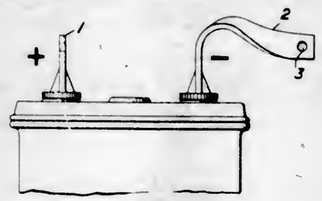
1. In a sanitary toilet apparatus, the combination with a toilet seat, of a movable cover for said seat, said cover being provided with a magazine containing temporary sanitary coverings for said seat, and means actuated automatically by the movement of said cover for removing one of said coverings from the magazine and depositing the same upon said seat.

1,376,927. RETAINER OR SEPARATOR FOR SECONDARY OR STORAGE BATTERIES. BRUCE FORD, Philadelphia, Pa. Filed Feb. 8, 1918. Serial No. 215,984. 3 Claims. (Cl. 204—29.)



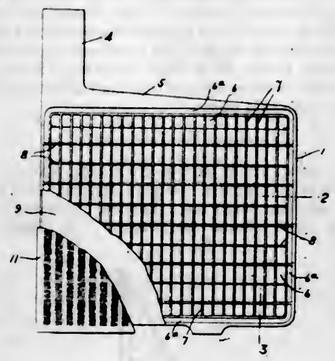
1. The process of making secondary or storage battery separators and retainers, which consists in slitting a wall in parallel rows of parallel slits with unslitted bars between the ends of the slits of adjacent rows and elongating the bars to permanently enlarge the opening of the slits in the plane of the wall, substantially as described.

1,376,928. SECONDARY OR STORAGE BATTERY. BRUCE FORD, Philadelphia, Pa. Original application filed Apr. 13, 1916, Serial No. 91,025. Divided and this application filed Jan. 4, 1919. Serial No. 269,580. 3 Claims. (Cl. 204—29.)



1. A storage battery cell provided with a plate structure having terminals of opposite sign and whereof one is relatively rigid and the other relatively flexible and of greater length than the rigid torminal, said terminals serving to avoid confusion in connecting a number of cells and to provide flexible inter-cell connections of comparatively few parts.

1,376,929. STORAGE-BATTERY PLATE. BRUCE FORD, Philadelphia, Pa. Filed Jan. 23, 1920. Serial No. 353,484. 5 Claims. (Cl. 204—29.)



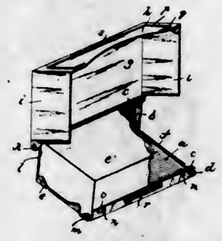
1. A storage battery plate having a grid consisting of a grillage surrounded by a rectangular marginal frame of deck-beam cross section whereby cavity space is provided at the web section of the frame, substantially as described.

1,376,930. HAT-FASTENER. ROBERT CARL FRITZ, Kassel, Germany, assignor to Firm of "Invenit," G. M. B. H., Kassel, Germany. Filed Sept. 18, 1920. Serial No. 411,310. 2 Claims. (Cl. 132—62.)



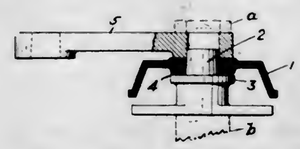
1. In a hat fastener, in combination, a closed casing having a cavity in its rear wall, a semicircularly curved pin movably located in said casing, an angularly bent flat end on said pin projecting from said casing, a detachable handle on said end, means to hold the latter thereon with a slight pressure, and a blade spring fixed in the cavity of said casing and having a transverse depression on its end for engagement with said pin in its two end positions, substantially as and for the purpose set forth.

1,376,931. MATCH-BOX. FRANZ A. FULLER, Newark, N. J. Filed Aug. 26, 1918. Serial No. 251,491. 4 Claims. (Cl. 206—31.)



1. A match box comprising a box body and a hinged lid, said box body adapted to hold a box of safety matches, and comprising a back portion to receive the box of matches, a turned-up side portion provided with a bearing extending lengthwise thereof, and a turned-up front lip and two end lips extending from said back portion for positioning and holding said box of matches upon the back portion, said hinged lid comprising a top portion, a cut away front portion and two side portions extending from said top portion, the front and side portions of the lid overlying the turned-up front lip and end lips of the back portion of the box body, lugs formed integrally with said back portion of the box body to be engaged by the side portions of the lid to limit the downward movement of said lid, and means formed on the turned-up front lip of the back portion of the box body designed to have holding engagement with means formed on the front portion of the lid for locking the box body and lid together.

1,376,932. STORAGE BATTERY. CHARLES D. GALLOWAY, Philadelphia, Pa. Filed Dec. 5, 1919. Serial No. 343,602. 4 Claims. (Cl. 204—29.)

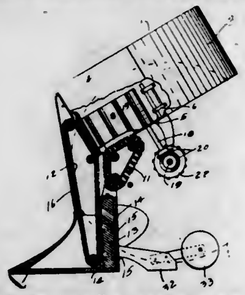


1. In a storage battery having a jar cover and a cell terminal post extending through an opening in the cover and provided with a flange having a gasket between it and the cover, the combination with a connector sleeved onto the cell terminal post and between which and the flange the cover and gasket are gripped to form a seal, of a burned or lead-puddled joint provided between the connector and the terminal portion of the post to hold the parts in fixed sealed relation.

1,376,933. PLANT-SETTING MACHINE. WILLIAM H. P. GOULD, Jr., Walla Walla, Wash. Filed Aug. 23, 1920. Serial No. 405,396. 4 Claims. (Cl. 111—3.)

4. In a wheeled plant setting machine, an inclined feeder hopper, provided with a discharge orifice, an automatic yielding feeder arm operably mounted within said hopper, a flexible belt operably mounted within said hopper and provided with laterally disposed plant carrying grooves, a means for driving said flexible belt, a stationary brush within said hopper and positioned to contact a portion of said flexible belt, a brush belt operably mounted beneath the contact portion of said flexible belt and stationary brush, a means for driving said brush belt, a second brush belt operably mounted ahead of the flexible belt, and ahead of the first mentioned brush belt, a means for driving said second brush belt, a vertically

positioned core rotatably mounted beneath said feeder hopper and carrying longitudinal grooves, one of said grooves normally registering with said second brush belt,



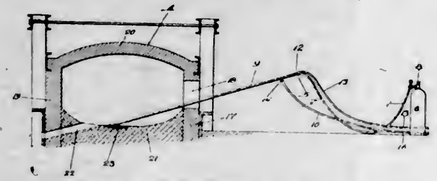
a means for intermittently rotating said core, ejector, operably positioned against said core and a means for driving the mechanism of said plant setting machine synchronizedly and from the axle thereof.

1,376,934. FISHING DEVICE. FREDERICK B. GREENE, New Haven, Conn. Filed Aug. 2, 1920. Serial No. 400,715. 3 Claims. (Cl. 43—45.)



1. A trolling and casting device comprising a stem, a hook carried by said stem, a spoon rotatably mounted on said stem, a rigid post carried at the rear of said spoon and engaging said stem for maintaining said spoon at a fixed inclination to said stem, said spoon being substantially lanceolate and the end thereof overlapping the shank of said hook and being spaced from said stem a distance substantially equal to the distance of the barb of the hook from the shank.

1,376,935. APPARATUS FOR AND METHOD OF CUTTING DRAINS IN FURNACE-BOTTOMS. JOHN O. GRIGGS, Youngstown, Ohio. Filed Nov. 24, 1919. Serial No. 340,235. 2 Claims. (Cl. 266—42.)



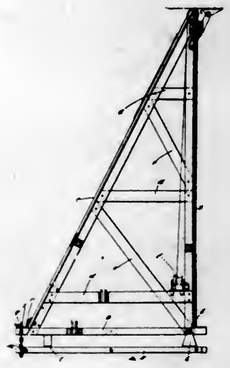
1. The herein described method of cutting drains in furnace bottoms, which consists in delivering oxygen directly to the part which is to be cut, while under the influence of intense heat.

1,376,936. PIPE-CUTTER. JOHN C. S. HERMISTONE, Boston, Mass. Filed Aug. 26, 1920. Serial No. 406,194. 5 Claims. (Cl. 81—192.)



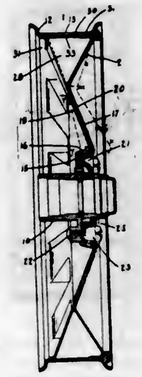
1. A pipe cutter having, in combination, a frame, pipe cutting instrumentalities mounted upon said frame, a sleeve having screw-threaded engagement with said frame, means to prevent the rotation of said sleeve and thereby lock said sleeve to prevent a longitudinal movement thereof in either direction in the different positions occupied thereby within said frame and a screw extending through said sleeve adapted to force said cutting instrumentalities into engagement with said pipe.

1,376,937. PORTABLE SHED, HANGAR, AND OTHER SIMILAR STRUCTURE. GASTON HERVIEU and PIERRE MARIE GEORGES MARÉCHAL, London, England. Filed June 19, 1918. Serial No. 240,867. 1 Claim. (Cl. 189—1.5.)



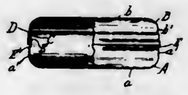
A constructional unit or stanchion for use in the erection of portable sheds, hangars and other similar structures, comprising in combination a lower sill adapted to rest upon the ground, said sill having at one end and on each side a plate extending upwardly therefrom, and at its opposite end a slotted aperture, (a triangular stanchion, said stanchion consisting of a horizontal sill built up of two beams placed side by side, a vertical column fixed to said horizontal sill between said beams and extending upwardly from one end thereof and a diagonal buttress member connecting the free ends of said horizontal sill and said vertical column, said vertical column and said buttress member being of double T section,) a pivot pin serving to connect one end of said triangular stanchion between the plates at one end of said lower sill, a threaded rod passing through a plate fixed to the free end of the sill of the stanchion, a chain on one end of said rod adapted to engage the slotted aperture in the adjacent end of the lower sill, and a nut engaging said threaded rod securing the lower sill and the triangular stanchion against movement from one another.

1,376,938. DISK WHEEL FOR VEHICLES. ROSCOE C. HOFFMAN, Hammond, Ind. Filed June 12, 1920. Serial No. 388,543. 4 Claims. (Cl. 301—63.)



1. A disk wheel construction comprising a wheel rim, a hub, means for supporting said hub within said rim, said means including a yielding spring metal disk portion secured to the hub, and a fluted portion formed integral with and about the periphery of said disk portion, said fluted portion being secured to and of substantially the width of the rim.

1,376,939. BOX OR CONTAINER. CHARLES G. HORNUNG, Buffalo, N. Y., assignor to Larkin Co., Buffalo, N. Y. Filed Apr. 6, 1920. Serial No. 371,597. 4 Claims. (Cl. 220—42.)



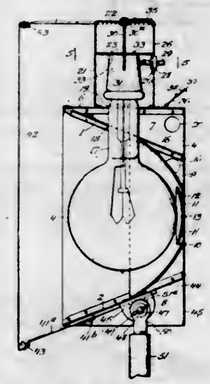
1. In a box, the combination of a single piece body having an annular wall the upper portion of which terminates in an annular concavo-convex portion, and a single piece cover having an annular concave and an inclined portion with which the convex side of said concavo-convex portion of said body is adapted to engage to form a tight joint, said cover having a portion extending below said concave portion and spaced at a distance from the annular wall of the body, whereby the cover can be disengaged from said body by pressing parts of the downwardly extending portion of said cover toward the body.

3. In a box, the combination of a body having an annular concavo-convex upper portion formed by turning inwardly the upper edge of the body, and a cover having an inclined shoulder and a concave portion there adjacent, said concavo-convex portion of the side wall resting in said concave portion and the upper edge of the body wedging against said shoulder portion to form a tight joint when the cover is placed on the body, said cover having a portion extending below said shoulder portion and spaced from said body, said concavo-convex upper portion also serving to guide a cover into operative relation to the body of the box.

1,376,940. COLOR PHOTOGRAPH OR FILM AND METHOD OF PRODUCING SAME. FREDERIC EUGENE IVES, Philadelphia, Pa. Filed Sept. 26, 1919. Serial No. 326,536. 11 Claims. (Cl. 95—2.)

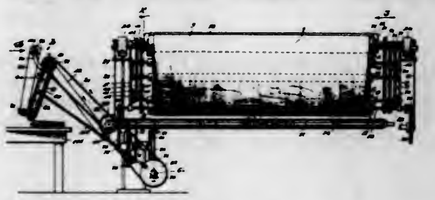
1. The method of producing a color photograph or motion picture film by two blended or blendable images consisting in producing a dichroic image showing two secondaries and blending it with a second image showing the third secondary.

1,376,941. COMBINED LAMP-HOLDER AND REFLECTOR. JAMES J. JOHNSON, Chicago, Ill. Filed Sept. 17, 1917, Serial No. 191,790. Renewed July 19, 1920. Serial No. 397,549. 32 Claims. (Cl. 240—1.)



1. In a device of the character described, the combination of a main rectangular frame having flat outwardly flaring top, side and bottom reflector walls, with a curved reflector within said walls, and a lighting element in front of said curved reflector, said side and bottom reflector walls being provided with ventilation openings in rear of said curved reflector.

1,376,942. MACHINE FOR FOLDING FABRIC ARTICLES. MARGARET KELLEY, Los Angles, Calif., assignor, by mesne assignments, to Automatic Flatwork Folder Company, a Corporation of Arizona. Filed Nov. 21, 1919. Serial No. 339,653. 15 Claims. (Cl. 270—79.)



1. In a machine for folding sheet articles, a dependent oscillatory structure, means whereby a sheet article may be advanced downwardly on said structure and delivered from the lower portion thereof, a conveyer belt for receiving the delivered sheet folded longitudinally, and a second oscillatory structure arranged to receive the longitudinally folded sheet from said conveyer belt and folding said sheet transversely.

1,376,943. RADIATOR. MICHAEL KING, Flat River, Mo. Filed Mar. 20, 1920. Serial No. 367,391. 1 Claim. (Cl. 257—129.)

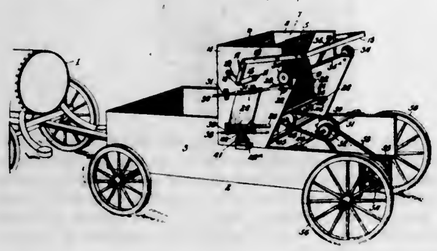
An automobile radiator comprising spaced head members, a plurality of radiator tubes establishing communi-

cation between the head members, perforated distributing plate arranged between the upper head member and said



tubes, and an arch shaped perforated member reposing upon the plate centrally thereof for the purpose specified.

1,376,944. MACHINE FOR SPREADING CRUSHED STONE AND OTHER MATERIAL. WILLIAM O. KING, Sidney, and JOSHUA R. KING, New Haven, N. Y. Filed July 6, 1918. Serial No. 243,542. 13 Claims. (Cl. 221—120.)



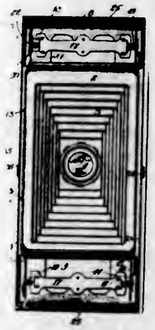
1. In a machine for spreading crushed stone or other material, a hopper for the material to be spread, means at the discharge end of the hopper for regulating the quantity of material discharged, a chute leading from the discharge end of the hopper and expanding therefrom, and separate agitating and feeding means associated to extend across and constitute the bottom of the chute.

1,376,945. ADJUSTABLE PAD-HOLDING MEANS. FRANK J. KAISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Feb. 24, 1920. Serial No. 360,652. 3 Claims. (Cl. 40—107.)



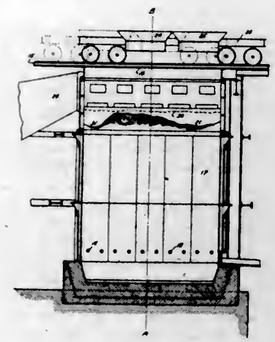
1. An adjustable pad holding means, including a stud having threaded portions, a smooth, longitudinally extending portion on said stud between said threaded portions and a lock nut formed of thin sheet material having means for engaging said threaded portions to lock a pad to said stud and means for freely engaging said threaded portions by turning said lock washer a quarter turn so that it can be moved freely longitudinally of said stud without being rotated on said threaded portion.

1,376,946. FOLDING CAMERA. ROBERT KROEDEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 3, 1920. Serial No. 400,925. 3 Claims. (Cl. 95—37.)



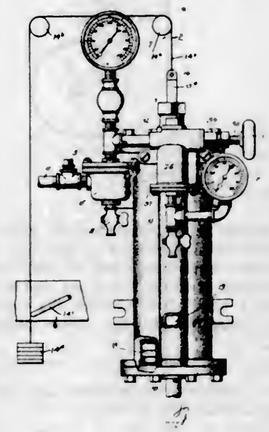
1. In a folding camera, the combination with a camera body comprising a bellows frame, a front plate having an opening for the bellows, a pair of laterally yielding film roll supports on top of the frame, and another pair of laterally yielding film roll supports beneath the frame, the front plate being curved rearwardly at top and bottom to provide a front wall and a part of the top wall, only, of film chambers inclosing each pair of roll supports, of a removable back comprising a back plate having forwardly curved upper and lower ends coöperating with the corresponding portions of the front plate to provide the rear walls and the remaining parts of the top walls of the film chambers and side plates fixed to the back plate to form the side walls of the camera and the entire end walls of both film chambers.

1,376,947. METHOD OF FURNACE CHARGING AND SMELTING. JULES LABARTHE, San Francisco, Calif. Filed Sept. 16, 1919. Serial No. 324,192. 11 Claims. (Cl. 266—27.)



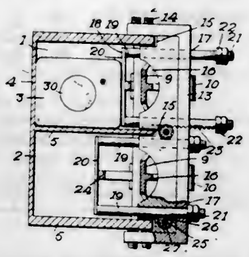
1. The method of charging a smelting furnace which consists of dumping at different parts of a furnace a plurality of charges of mixture of constituents, the quantity of each constituent in the complete charge being the same in any vertical line through the complete charge, and forcing air into the sides of the charge through twyers near the bottom of the furnace shaft and venting the gases above said twyers.

1,376,948. HIGH-PRESSURE STANDARD REGULATOR. JOHN M. LARSON, Chicago, Ill., assignor to National Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1917. Serial No. 172,535. 10 Claims. (Cl. 236—85.)



8. A regulating device comprising a power cylinder and piston, and means for controlling said piston comprising a passage affording communication between said cylinder and a source of fluid pressure, a main check-valve controlling said passage, a controlling cylinder and piston for controlling said main check-valve, a passage connecting said controlling cylinder with said source of fluid pressure, a pressure reducing valve in said passage, and means whereby when said controlling piston opens said main check-valve said controlling piston will be subjected to the pressure of the fluid which passes said main check-valve.

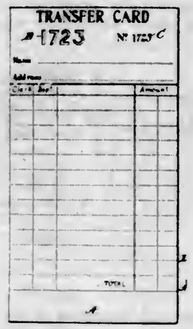
1,376,949. SHUTTLE-BOX FOR LOOMS. CYRIL LAVALLE, Webster, Mass. Filed Jan. 2, 1920. Serial No. 348,965. 7 Claims. (Cl. 139—74.)



1. In a loom, a frame mounted at the closed end of the shuttle box and provided with means for clamping the weft thread at the open end of the shuttle box.

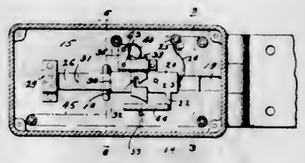
1,376,950. TRANSFER SYSTEM FOR DEPARTMENT STORES AND THE LIKE. MEYER LIEBMAN and GEORGE E. DOUGHTY, New York, N. Y. Filed Mar. 11, 1918. Serial No. 221,821. 3 Claims. (Cl. 35—12.)

1. In a transfer system for department stores and the like, a transfer card having an identifying mark, spaces for recording successive individual sales, and having incorporated therewith means to mechanically control



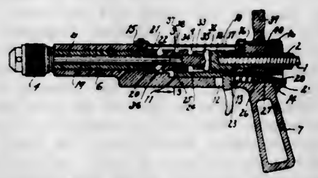
the printing upon successive individual slips or parcels, of an identifying mark corresponding to the mark on the card.

1,376,951. LOCK. RAYMOND F. LINDENMUTH, Quakake, Pa. Filed May 15, 1919. Serial No. 297,322. 7 Claims. (Cl. 70—5.)



6. In a lock, the combination with a sliding bolt having a laterally extending arm thereon, of a movable guard having a curved face and recess therein for reception of said laterally extending arm when the bolt is in a locked position, and a key adapted for engagement with said arcuated face of said guard to move said guard out of engagement with said laterally extending arm whereby said key may engage the laterally extending arm to retract said bolt.

1,376,952. POWER ATTACHMENT. ARTHUR C. LINDHOLM, Springfield, Mass. Filed Feb. 13, 1920. Serial No. 358,548. 11 Claims. (Cl. 77—7.)

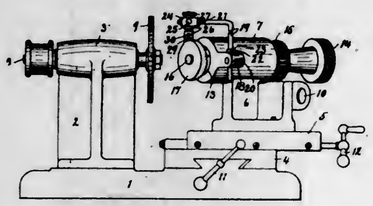


1. The combination, in an attachment of the class described, with a holder adapted to be attached to a flexible-shaft, revoluble tool-carrying members, and flexible-shaft-driven mechanism for said members, such mechanism consisting in part of a clutch, of trip-operating means to start said members through the medium of said clutch, and trigger-operating means to stop said members also through the medium of said clutch.

1,376,953. WORK-HOLDER. ARTHUR C. LINDHOLM, Springfield, Mass. Filed June 24, 1920. Serial No. 391,377. 4 Claims. (Cl. 51—225.)

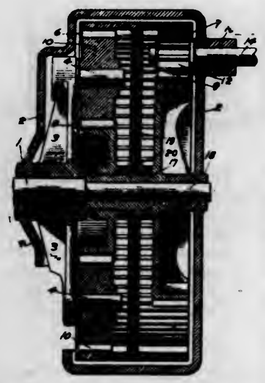
1. The combination, in a work holder, with a chuck and bearing therefor, of a rod comprising vertical and

horizontal parts, the vertical part of said rod being supported by said bearing and vertically adjustable therein, a head-block adjustably supported by the horizontal part of said rod, a shank adjustably supported by said head-



block, means rigidly to connect each of the aforesaid adjustable parts or members to the supporting part or member therefor, and a resilient finger detachably connected with said shank and when attached thereto adapted to be engaged by the teeth of a cutter carried by said chuck.

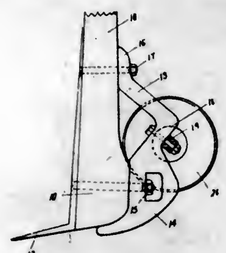
1,376,954. SPEED-REDUCTION GEARING. MARCEL LISSMAN, Sacramento, Calif. Filed Nov. 6, 1918. Serial No. 262,263. 1 Claim. (Cl. 74—34.)



A speed reduction gearing comprising a driven shaft; a pair of connected internal gears of the same diameter rotatably mounted concentric with the shaft; a pair of connected spur gears of different diameters rotatably mounted within and concentric with the internal gears; a yoke secured to the driven shaft and extending laterally therefrom, a pair of diametrically opposed pinions rotatably mounted upon the ends of the yoke and meshing with the smaller spur and its respective internal gear; and a driving pinion meshing with the larger spur and its respective internal gear to rotate said last mentioned gears in opposite directions at the same peripheral speeds, and the smaller spur and its respective internal gear in opposite directions at different peripheral speeds.

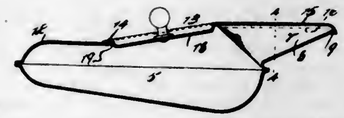
1,376,955. TRUCK. ARLON LITTLEFIELD, Cranston, R. I., assignor to New England Butt Company, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 29, 1919. Serial No. 327,091. 2 Claims. (Cl. 280—56.)

2. A hand-truck comprising a frame having manipulating handles at its upper end and a laterally extending lifting nose at its lower end, a pair of bolsters secured to said lower end of the truck, one to each side thereof, each of said bolsters including a rocker shoe having an arcuate bearing surface, the toe portion of which extends around the lower end of the frame, whereby the latter rests thereupon, and the heel portion of which extends rearwardly and upwardly of the frame, each bolster further including an offset angular bracket positioned above and to the rear of said rocker shoe thereof and adapted to assume a substantially horizontal position when the truck is in its normally inclined transporting position, an axle secured to the under-surface of said



brackets of said bolster, and traction wheels on said axle, said brackets being arranged to position said wheels so that the first contacting point of their periphery is at the heel portion of the rocker shoes, and said rocker shoes lying below a line extending from the end of said lifting nose and tangential to the lower periphery of said wheels.

1,376,956. COMBINATION BED AND DOUCHE PAN. VICTOR LOEWENBERG, New York, N. Y. Filed Apr. 3, 1919. Serial No. 287,159. 3 Claims. (Cl. 4—19.)



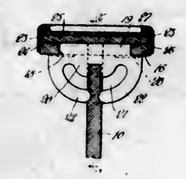
1. In a bed pan, a bowl portion having an inclined top with an opening therein, an open top extension projecting rearwardly from said bowl, the bottom wall of said extension arranged in substantial parallel relation with the inclined top of the bowl thereby permitting a straight passage through the extension and directly into the bowl beneath the opening in the top thereof.

1,376,957. EXHAUST-MUFFLER. ROY J. MACKENZIE and LUCIEN L. HAAS, Buffalo, N. Y., assignors to Buffalo Pressed Steel Co., Buffalo, N. Y. Filed Mar. 16, 1917. Serial No. 155,331. 12 Claims. (Cl. 137—160.)



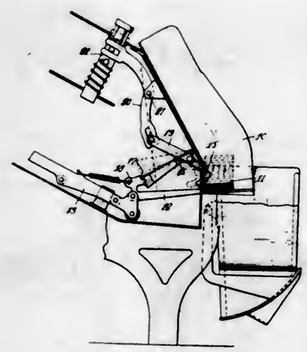
1. A muffler having a plurality of substantially concentrically arranged shells of substantially cylindrical and conical shape, a cylindrical shell being arranged adjacent to a conical shell to form a chamber having a greater cross-sectional area at one end than at the other end, one of said shells being provided with a portion of elliptical cross-section to form, with an adjacent shell of circular cross-section, an expansion chamber having diametrically opposed portions of enlarged cross-sectional area and diametrically opposed portions of reduced cross-sectional area, and means for admitting gases to said chamber substantially at said portions thereof of reduced cross-sectional area.

1,376,958. KEY FOR OFFICE DEVICES. MAURICE H. MANDELBAUM, Chicago, and BESTER R. WEBSTER, Elgin, Ill., assignors, by direct and mesne assignments, to Brandt Cashier Company, a Corporation of Illinois. Filed Jan. 10, 1920. Serial No. 350,635. 3 Claims. (Cl. 197—102.)



1. A readily removable key for accounting and typing machines, comprising in combination, a shank having lugs at its extremity and a notch at a point removed from the end, a disk having recesses adapted to accommodate the shank lugs, and said disk having a resilient, downwardly projecting arm adapted to slide along said shank and engage the notch therein whereby the disk is firmly and removably held in engagement with the shank, substantially as described.

1,376,959. COIN-LOCKING MECHANISM. MAURICE H. MANDELBAUM, Chicago, and BESTER R. WEBSTER, Elgin, Ill., assignors, by direct and mesne assignments, to Brandt Cashier Company, a Corporation of Illinois. Filed Jan. 19, 1920. Serial No. 352,285. 3 Claims. (Cl. 133—4.)

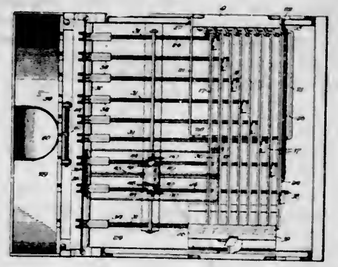


2. In a coin handling machine having means for holding a stack of coins and coin ejecting means, a gravity acting lock for said ejector, and a pair of detecting fingers adapted to engage at separated points on the periphery of said stack of coins, said fingers serving to control the action of said detent, substantially as described.

1,376,960. CHANGE-MAKING MACHINE. MAURICE H. MANDELBAUM, Chicago, and BESTER R. WEBSTER, Elgin, Ill., assignors, by direct and mesne assignments, to Brandt Cashier Company, a Corporation of Illinois. Filed Mar. 4, 1920. Serial No. 363,168. 9 Claims. (Cl. 133—4.)

1. In a device of the class described, the combination of a plurality of rock-bars, paying mechanism actuated thereby, a U-shaped equalizer engaging the bars at a point midway of their length, and means for pivoting said equalizer at the side of the machine, substantially as described.

3. In a device of the class described, the combination of pay-fingers for coins of different denominations, bars for engaging each of two pay-fingers of coins of the two highest denominations, a key for selectively actuating said

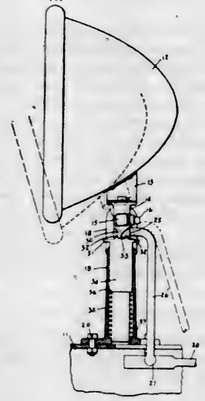


bars to render said fingers inoperative to engage a coin, and means to prevent the simultaneous actuation of both of said bars, substantially as described.

1,376,961. METHOD OF COLORING AND FINISHING THE SURFACE OF GRAIN-LEATHER. WYMAN H. MEADE and SVEN H. FRIESTEDT, Camden, N. J. Filed July 24, 1919. Serial No. 313,006. 1 Claim. (Cl. 91—68.)

As a new article of manufacture, leather having a surface coated by metal precipitated from a soluble compound.

1,376,962. TILTING-HEADLIGHT CONSTRUCTION. JOHN Z. MILLER, Indianapolis, Ind. Filed Mar. 13, 1920. Serial No. 365,379. 5 Claims. (Cl. 240—61.)

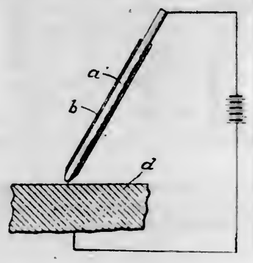


1. The combination of a headlight, a support therefor having a transversely extending rib, relatively stationary means in which said headlight support is pivotally mounted so that the headlight can be tilted, means for forcibly tilting the headlight, and a spring pressed plate bearing against said rib and having transverse depressions with elevations beside the same bearing against said rib for yieldingly holding it from movement excepting when forcibly actuated.

1,376,963. PROCESS OF UNITING ALLOY STEEL TO CARBON STEEL. OSCAR L. MILLS, Easton, Pa. Filed Oct. 10, 1919. Serial No. 329,750. 5 Claims. (Cl. 219—8.)

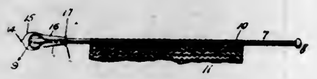
1. The process of uniting a metal coating with the surface of a metal body, comprising the steps of coating a tape

with a paste containing the alloying material in a finely divided state, wrapping the coated tape about a metal core with the coated side in contact with the core to form an electrode, then drying the electrode, and then passing an electric current through the electrode and the metal to be coated, to fuse the end of the electrode and the surface of the metal body to be coated to unite the fused alloy with the fused surface of the metal body.



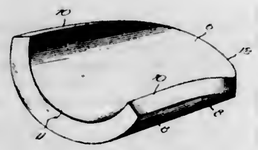
5. An electrode comprising a low carbon steel core with a high melting point, an even coating of alloying material mixed with linseed oil, and an outer covering of tape.

1,376,964. REMOVABLE PROTECTING-CAP FOR KNITTING-NEEDLES AND THE LIKE. JAMES MOSSMAN, Cincinnati, Ohio. Filed Nov. 9, 1918. Serial No. 261,861. 1 Claim. (Cl. 24—155.)



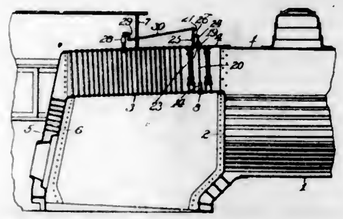
A point-protecting device or a protector-cap for knitting-needles comprising a pair of arms having resilient clamping-jaws the latter concavo-convex in cross-section and also having outwardly-flared outer ends, an imperforate spring bow-portion integrally-connecting the inner ends of said arms under resilient tension, a central outwardly-extending socket provided in the said spring bow-portion and adapted to seat the knitting-needle point, and a resilient lining provided in said socketed bow-portion and having a central wide-mouthed tapered opening to said socket in the bow-portion to frictionally-seat said point free from shifting or accidental withdrawal and, also, whereby the said point is protected from bending or blunting in seating, substantially as shown and described.

1,376,965. RESILIENT HEEL. FREDERICK NERGER, Chicago, Ill. Filed Mar. 1, 1919. Serial No. 280,085. 1 Claim. (Cl. 36—35.)



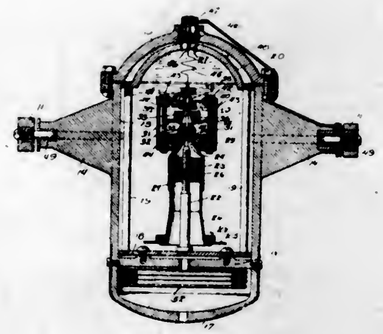
A rubber heel having its upper face a circular cylindrical surface, the axis of which extends from front to rear, all vertical transverse sections forming arcuate intersections with said surface, said arcuate intersections being of equal radii, all vertical fore and aft sections forming rectilinear parallel intersections with said surface, the outline of the heel being shaped to conform to the outline of the adjacent portion of the shoe.

1,376,966. LOW-WATER-SIGNAL APPARATUS FOR STEAM-BOILERS. LEWIS NICHOLAS, Indianapolis, Ind. Filed Dec. 5, 1919. Serial No. 342,715. 4 Claims. (Cl. 122—504.1.)



3. In low-water signal apparatus, the combination with a hollow plug and a fusible element on the top of the plug, of a hollow cylinder secured to the plug and having a valve seat ledge therein engaging the fusible element and securing it to the plug, the cylinder having a bore extending from its top to the ledge, a piston valve freely receivable into the bore in the cylinder, a stem connected to the valve and having a head secured to its end and having also a stop collar thereon between said valve and said head, a standard, and a bell-crank pivoted to the standard and having an arm pivoted to said head, the bell-crank having also a signal-operating arm thereon.

1,376,967. CIRCUIT-CLOSER. ERNEST FOX NICHOLS, New Haven, Conn. Original application filed Nov. 27, 1918, Serial No. 264,454. Divided and this application filed Oct. 3, 1919. Serial No. 328,303. 22 Claims. (Cl. 102—3.)



1. In a magnetic responsive device, a plurality of independently pivoted magnetic units having angular movements in any plane, a fluid in which said units are immersed, and a buoyancy member associated with each unit.

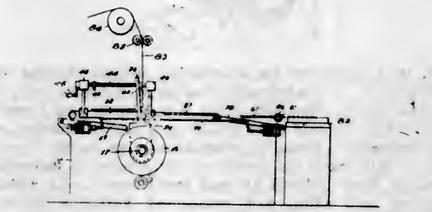
1,376,968. MULTIPLE TIRE-VALVE. JACOB ALPHEUS OVERLANDER, New York, N. Y. Filed May 11, 1917. Serial No. 168,021. 11 Claims. (Cl. 152—12.)

2. In a multiple tire valve, a hollow primary clamping member, pneumatic tubes for vehicle tires concentrically disposed thereon, lock-nuts serially arranged for clamping said pneumatic tubes independently of each other, a threaded valve stem entered through the primary clamping member having a check valve therein; and transverse ports through the valve stem and primary clamping



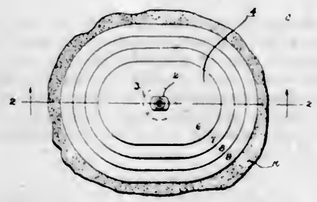
member leading to interspaces between the tubes operatively controlled by the adjustment of the threaded valve stem.

1,376,969. MACHINE FOR FOLDING SHEET MATERIAL. HERBERT E. PELTON, Los Angeles, Calif. Filed Feb. 9, 1920. Serial No. 357,153. 8 Claims. (Cl. 270—79.)



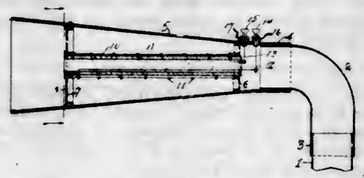
1. In a machine for folding sheet material, a carriage on which the article to be folded may be fed from a point thereabove, means for reciprocating said carriage, and means for advancing the folded article to one side of the carriage at the termination of a predetermined number of reciprocations thereof, said last named means being automatically controlled by movement of the carriage.

1,376,970. PAD FOR ATTACHING VALVES TO TIRES. ANDREW T. PICKENS, St. Louis, Mo. Filed Dec. 15, 1920. Serial No. 430,951. 2 Claims. (Cl. 152—13.)



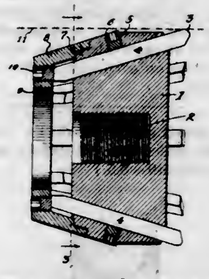
2. A valve-retaining pad comprising a plurality of plies, one of which is of cured rubber, the inside of which is roughened, and the rest of the said pad being of rubber of such consistency as to be adapted under the application of heat to amalgamate with such roughness.

1,376,971. VACUUM-CLEANER ATTACHMENT. GEORGE QUALMAN, Toledo, Ohio. Filed Mar. 11, 1920. Serial No. 365,101. 5 Claims. (Cl. 219—42.)



1. In a device of the described character, a tubular member, foraminous diaphragms in the chamber of said member, a heating-element carried by and between said diaphragms, means for connecting said heating element with a suitable source of electricity, and means for detachably connecting the inlet end of said tubular member with the outlet member of a vacuum cleaner.

1,376,972. SURFACE MILLING-CUTTER. RICHARD W. RUNDE, Detroit, Mich. Filed Mar. 13, 1919. Serial No. 282,327. 6 Claims. (Cl. 29—105.)



1. A surface milling cutter comprising a head substantially of the form of a truncated cone and having a threaded recess in the smaller end and a series of circularly arranged apertures extending therethrough near the periphery, the apertures each being formed at a similar angle to the longitudinal axis of the head, a cap secured to the small end of the head provided with an inturned flange providing a central opening, a cutting tool in each of the said apertures of the head, a similar series of adjusting screws in the cap plate, each engaging an end of a tool and providing for individual adjustment thereof longitudinally of the head, and means for securing the tools from longitudinal movement in the head.

1,376,973. TIRE-FILLING COMPOSITION. JOHN A. SCHMIDTKE, Calgary, Alberta, Canada. Filed Apr. 22, 1920. Serial No. 375,886. 1 Claim. (Cl. 106—23.)

A tire filler comprising the following ingredients in proportions substantially as set forth; vegetable oil 74%; magnesium oxid 2.2%; ultramarine 2.2%; litharge 2.2%; oakum 1.9%; chlorid of sulfur 17.5%.

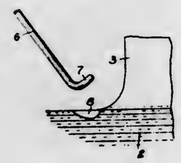
1,376,974. JEWEL-MOUNT. HARRY SILVERMAN, Brooklyn, N. Y. Filed July 26, 1920. Serial No. 399,113. 8 Claims. (Cl. 63—26.)



1. A ring of the character designated, comprising a finger loop formed with a hollow support for a jewel mount

having a recess for supporting the jewel, and said jewel mount consisting of a jewel bed plate adapted to be soldered to said hollow support on the loop, and a jewel cap plate fitting over the jewel bed plate and adapted to be secured thereto by clench prongs on the bed plate, for the purpose set forth.

1,376,975. PROCESS OF DRAWING SHEET-GLASS. HARRY G. SLINGLUFF, Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed May 22, 1919. Serial No. 298,966. 4 Claims. (Cl. 49—83.1.)



1. In the proces of drawing a glass sheet from a molten bath, the step of maintaining the position of the edge of the sheet which consists in depressing elongated recesses or pockets at intervals in the body of molten glass with a cooling tool on each side of the edge and in close proximity thereto.

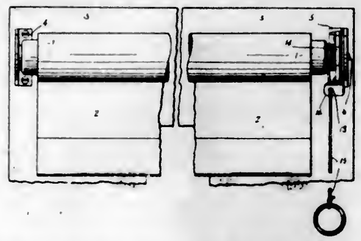
1,376,976. FLASHLIGHT DEVICE. PAUL C. SMALLEY, Newark, N. J. Filed Jan. 13, 1920. Serial No. 351,109. 4 Claims. (Cl. 240—8.5.)



1. A flash light comprising a casing, a battery therein, means pressing against the bottom of said battery to establish electrical connection therewith, a lens and a reflector at the other end of said casing, a lamp secured in said reflector, a shock absorber comprising an apertured disk carried by said reflector and a metallic shell secured to said disk to receive the thrust of said battery, said shell provided with an inwardly extending tongue, said shell and tongue directly connecting one terminal of said battery to said lamp and means for completing the connections between said bottom spring and said lamp.

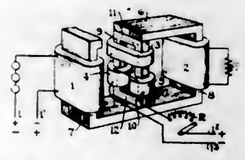
1,376,977. SHADE-ROLLER. PRIMUS W. SMITH, Junction City, Kans. Filed May 3, 1920. Serial No. 378,584. 1 Claim. (Cl. 156—28.)

In a device of the character described, the combination of a shade, a roller, supporting brackets therefor, a lever pivoted to one of the supporting brackets at a point between the center of the lever and its lower end, an opening in the lower end of the lever for a cord, a ratchet and drum carried on one end of the roller, one of said brackets diagonally slotted to receive one end of the roller and provided with a circular bearing at the end of the slot for the roller, the upper end of said lever of relatively



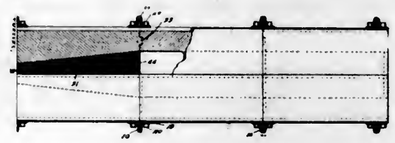
broad curved formation and a pawl thereon to engage or disengage the ratchet when the cord is pulled or released to raise or lower the shade.

1,376,978. REGULATOR FOR ALTERNATING CURRENTS. ERWIN R. STOEKLE, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 24, 1917. Serial No. 203,661. 8 Claims. (Cl. 171—119.)



3. In a regulator for alternating current circuits, in combination, a transformer having a primary coil, a secondary coil connected across a resistance and a magnetic frame for said coils providing a magnetic shunt, of electromagnetic means to independently magnetize a portion of said frame for control of the number of magnetic lines of force induced by said transformer coils which traverse said shunt and consequent variation of the impedance value of said primary coil.

1,376,979. MUFFLER-BURNER. ROGER L. STROBEL, East Helena, Mont., assignor to American Smelting and Refining Company, a Corporation of New Jersey. Filed May 2, 1919. Serial No. 294,252. 22 Claims. (Cl. 266—21.)



1. In a device of the class described, a fire resisting, open bottom arch construction having oppositely disposed upstanding walls, each of said walls provided on the outer sides thereof with a recess forming overhanging shoulders on opposite sides of the arch construction, said shoulders adapted to rest on oppositely disposed sill elements of a supporting frame whereby the arch construction can be suspended in position.

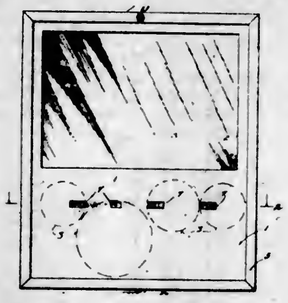
1,376,980. INTAKE-HEATER FOR AUTOMOBILES. ELLIOTT R. TABER, Acushnet, Mass. Filed June 10, 1918. Serial No. 239,146. 1 Claim. (Cl. 219—38.)

In an intake heater for automobiles, the combination with the intake and exhaust pipes crossing each other; of a frame inset at the point of crossing and open at its sides to the exhaust, heads at its top and bottom pierced with holes, a partition above the lower head pierced with alined holes, this partition defining a chamber beneath the openings to said exhaust, upright tubes through all



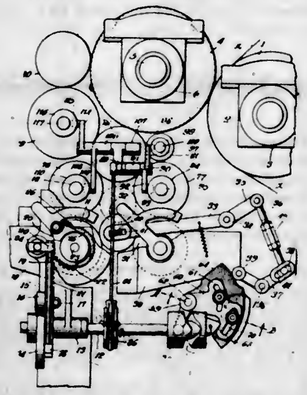
said holes communicating with the intake, and electrical heating coils around the tubes within said chamber.

1,376,981. PERPETUAL CALENDAR. ANNE VORTBERG, Racine, Wis. Filed Feb. 24, 1920. Serial No. 360,684. 2 Claims. (Cl. 40—113.)



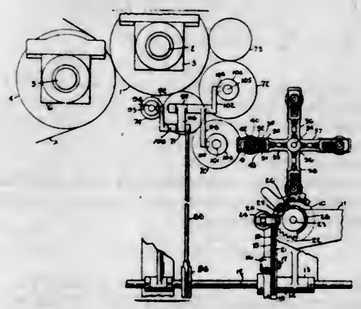
1. In a device of the class described, a face plate having a series of sight openings formed therein, the openings of said series being alined, a plurality of circular disks disposed behind the face plate, each having characters thereon to be registered with one of said openings, a backing plate having a series of openings, said last mentioned openings being disalined, each being in registration with the center of one of said disks, a tongue struck from each of said disks extending through the adjacent opening in the backing plate for rotating the same, and a spacing strip between the two plates and having openings therein in which said disks are fitted.

1,376,982. PRINTING-PRESS INKING MECHANISM. JOSEPH J. WALSER and HARLAND FANKBONER, Chicago, Ill., assignors to Goss Printing Press Company, a Corporation of Illinois. Filed June 18, 1917. Serial No. 175,408. 42 Claims. (Cl. 101—350.)



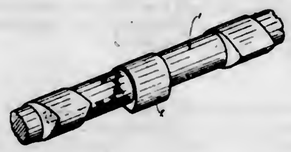
1. A printing press inking mechanism including in combination a plurality of fountain rollers, and a single ductor roller coacting simultaneously therewith and taking ink from both fountain rollers upon the same part of the ductor roller.

1,376,983. INKING MECHANISM. JOSEPH J. WALSER, Ann Arbor, Mich., and HARLAND FANKBONER, Chicago, Ill., assignors to Goss Printing Press Company, a Corporation of Illinois. Filed Mar. 12, 1920. Serial No. 365,356. 26 Claims. (Cl. 101—350.)



1. A printing press inking mechanism including in combination a fountain roller, an ink drum, a shaft, a ductor roller mounted on the shaft and adapted to travel along the periphery of one of said other members, and means mounted upon the shaft and settable for varying the extent of said travel of the ductor roller to control the ink supply.

1,376,984. METHOD OF HARDENING OR TEMPERING CAM-SHAFTS. JOHN F. VANDERSEE, Highland Park, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 2, 1920. Serial No. 348,815. 4 Claims. (Cl. 148—10.)

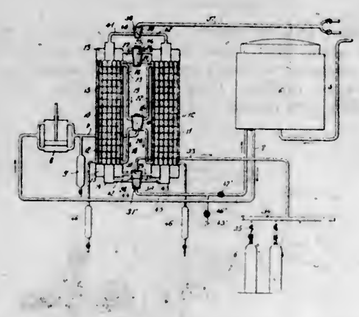


1. A method of hardening or tempering camshafts which consists in placing the shaft between movable electrodes adapted to be clamped against the cams so as to hold the shaft securely while being operated upon, applying a heating current through said electrodes until said cams have attained the desired temperatures, then quenching the same.

1,376,985. METHOD OF AND APPARATUS FOR DRYING COMPRESSED GASES. WALTER WILKINSON, Jersey City, N. J., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed Oct. 15, 1920. Serial No. 417,250. 3 Claims. (Cl. 183—119.)

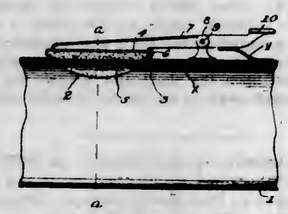
1. A method of separating moisture from compressed gases preliminary to the storage of the gas in shipping receptacles which comprises, causing the gas to travel in indirect contact and countercurrent with preceding portions thereof whereby the compressed gas is cooled to a temperature insuring separation of the major portion of the moisture carried by the gas, withdrawing the separated moisture while the gas is at the low temperature,

conveying in indirect contact with the compressed gas additional cooling medium to compensate for heat derived



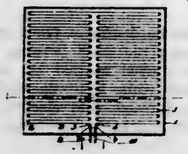
from the surrounding atmosphere and from condensation of the moisture, and conveying the compressed dehydrated gas to the shipping receptacle.

1,376,986. SOCKET FOR WIND INSTRUMENTS. BENJAMIN F. WINTERHOFF, Elkhart, Ind. Filed Mar. 10, 1920. Serial No. 364,674. 6 Claims. (Cl. 84—7.)



3. In a wind musical instrument having a port therein, the edge of said port being beaded, a closure cap for said port, the inner face of said cap being in substantial alinement with the inner circumference of said instrument, when the cap is in closed position.

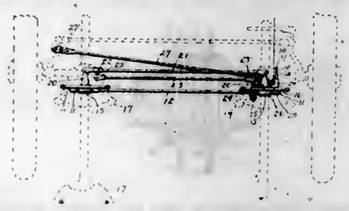
1,376,987. PROCESS OF MAKING ELECTRIC HEATERS. CHARLES WIRT, Philadelphia, Pa. Filed Dec. 2, 1918. Serial No. 264,914. 8 Claims. (Cl. 219—46.)



1. The process of making electric heaters, which comprises applying a conductor to the surface of a body of insulating material, placing a second body of insulating material over the first sheet to cover the conductor, and uniting the bodies to embed the conductor.

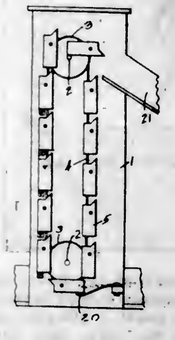
1,376,988. VEHICLE-LAMP MOUNTING. CHARLES H. WOLFE, Port Clinton, Ohio. Filed Feb. 12, 1920. Serial No. 358,032. 12 Claims. (Cl. 240—61.)

1. A vehicle lamp support mounted for oscillation on an axis; an arm extending from said support: a housing connected with said arm; a rack bar extending through the housing; and a pawl loosely mounted in the housing



with the walls of the latter holding said pawl in operative condition.

1,376,989. BUCKET ELEVATOR. JOHN W. WOODS, Walla Walla, Wash. Filed Oct. 7, 1919. Serial No 329,110. 3 Claims. (Cl. 193—6.)



1. In an elevator, a frame, shafts journaled in said frame and carrying sprocket wheels, chain belts mounted on said sprocket wheels and carrying buckets, said buckets being pivotally attached thereto, with the point of attachment at a distance from the bottom of said buckets greater than the radius of said sprocket wheels, a spring member attached to the frame and positioned to engage and retard the bottom of said buckets to change the position thereof on said chain belts, and a combined means to prevent a reverse motion of the elevator and simultaneously release the load.

1,376,990. COLLAPSIBLE REINFORCEMENT FOR REINFORCED CONCRETE CONSTRUCTION. WILLIAM F. ZABRISKIE, Detroit, Mich. Filed Mar. 29, 1919. Serial No. 286,092. 7 Claims. (Cl. 72—110.)

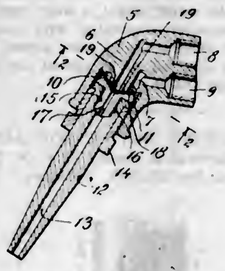


1. A reinforcement for concrete construction, comprising a pair of tension bars and a series of transverse links pivotally connected at their opposite ends to said bars to form in connection therewith a collapsible parallelogram structure, the tension bars being adapted to contact when the structure is collapsed.

1,376,991. BLOWPIPE. GEORGE H. ZOUCK, Orange, N. J., and GEORGE L. WALKER, New York, N. Y., assignors to Air Reduction Company, Inc., a Corporation of New York. Filed Apr. 18, 1919. Serial No. 291,105. 8 Claims. (Cl. 158—27.4.)

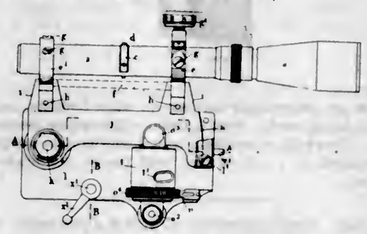
1. In a blowpipe, the combination with a head having passages for oxidizing and combustible gases, of a tip having a discharge passage, and an inlet of smaller cross

sectional area to said discharge passage, said head and tip having coöperating conical sealing surfaces, and a groove in one of said surfaces and terminating at the mouth of



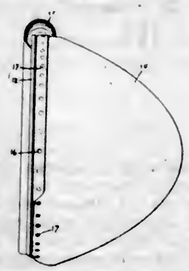
said inlet whereby gas is conveyed from one of the passages in said head and mixed with the gas from the other passage in said head at the mouth of said inlet.

1,376,992. SIGHTING APPARATUS FOR FIREARMS, AND PARTICULARLY FOR MACHINE-GUNS. ALBERT AMIGUES, Paris, France. Filed Mar. 5, 1918. Serial No. 220,616. 7 Claims. (Cl. 33—50.)



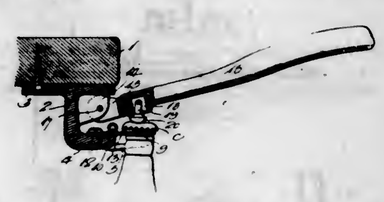
1. In a sighting device for fire arms, the combination of a telescope, a supporting frame adapted to be secured to a fire arm, a telescope carrier pivoted to said frame, a guiding sector on said frame at the free end of said carrier, and screw threaded means for adjusting the position of said telescope-carrier with respect to said frame.

1,376,993. ADJUSTABLY-HINGED TILTING REFLECTOR FOR LAMPS. SAMUEL F. ARBUCKLE, Indianapolis, Ind., assignor to United States Automotive Corporation, Connersville, Ind., a Corporation of Delaware. Filed Sept. 15, 1919. Serial No. 323,773. 1 Claim. (Cl. 240—41.)



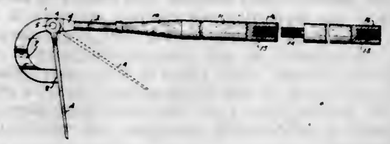
In combination with a headlight having a casing and a source of illumination therein, of a tilting reflector mounted within said casing, a frame upon which said reflector is mounted, means for actuating said tilting reflector, said casing and frame having a plurality of indentures and projections about the peripheries thereof, so positioned as to engage each other, whereby said frame may be turned in any desired position within said casing and locked therein for directing the projected rays of light downwardly and laterally.

1,376,994. BOTTLE-OPENER. SATTERLEE T. ARNOLD, Paducah, Ky. Filed Dec. 11, 1919, Serial No. 344,103. Renewed Mar. 16, 1921. Serial No. 452,718. 6 Claims. (Cl. 65—46.)



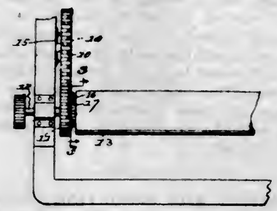
1. A bottle cap remover comprising a support, cap engaging jaws on said support, a lever disposed above said jaws and pivoted to said support, and a depending plunger pivotally mounted on said lever for limited swinging movement and adapted to be forced against the cap to assist in removing the same.

1,376,995. CULVERT-CLEANING HOE. FREDERICK M. BALSLEY, Madison, Wis. Filed Apr. 14, 1919. Serial No. 290,009. 3 Claims. (Cl. 182—2.)



1. The combination with a hoe blade, of a shank pivotally connected with the upper margin of the blade, and provided with a rearward extension curving downwardly and forwardly, and adapted to serve as a stop to hold the blade in a normal scraping position, said shank being forked and adapted to bear upon the rear face of the blade at a plurality of points, at opposite sides of the center of the blade.

1,376,996. BOTTOM AND TOP PAGE MARGINER. JOSEPH P. BELAND, Quebec, Quebec, Canada. Filed June 10, 1919. Serial No. 303,048. 1 Claim. (Cl. 197—119.)

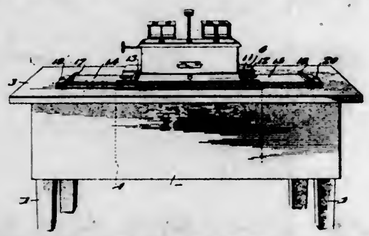


A page margining attachment for typewriting machines having an operating roll mounted for independent movement coaxially with the platen of a typewriting machine, means for communicating forward step by step movement from the platen to said operating roll, an idle guide roll, and a gage member consisting of an endless plate or tape traversing said rolls and having graduations representing line spaces numbered consecutively in reverse order.

1,376,997. TEST-SCALE TABLE. TORVALD M. BORGLUM, Reedsport, Oreg. Filed Mar. 23, 1920. Serial No. 368,044. 3 Claims. (Cl. 45—17.)

1. A test scale table including with a table body portion having a scale receiving compartment therein, a scale supporting and carrying structure adapted to be placed within said compartment consisting of a base member on which the scale is set and end members

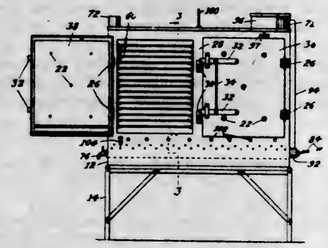
hinged at the extremities of said base to be swung down when the scale is to be used and swung up to protect the scale when placed within the compartment.



2. A test scale table including with a table body portion having a scale receiving compartment therein, a scale supporting and carrying structure adapted to be placed within said compartment consisting of a base member on which the scale is set, end members hinged at the extremities of said base to be swung down when the scale is to be used and swung up to protect the scale when placed within the compartment, said base member having portions thereon to retain the scale in place and said end members being provided with hand grip portions by which the supporting and carrying structure is held when raised from and lowered into said compartment, a table top mounted on said body portion provided with an opening through which access is had to said compartment, and a cover portion hinged on said top to be swung into the opening thereof to close said compartment and to present a substantially continuous and smooth table top surface.

3. A test scale table including with a table body portion having a scale receiving compartment therein, a scale supporting and carrying structure adapted to be placed within said compartment consisting of a base member on which the scale is set, end members hinged at the extremities of said base to be swung down when the scale is to be used and swung up to protect the scale when placed within the compartment, said base member having portions thereon to retain the scale in place and said end members being provided with hand grip portions by which the supporting and carrying structure is held when raised from and lowered into said compartment, a table top mounted on said body portion provided with an opening through which access is had to said compartment, a cover portion hinged on said top to be swung into the opening thereof to close said compartment and to present a substantially continuous and smooth table top surface, and means to engage with said end members of the scale supporting and carrying structure when flattened out upon the table top to hold said structure in place thereon with the base member covering the opening through the table top.

1,376,998. DEVICE FOR SPROUTING SEEDS. WILLIAM BOSS, St. Paul, Minn. Filed Sept. 30, 1918. Serial No. 256,191. 3 Claims. (Cl. 47—30.)



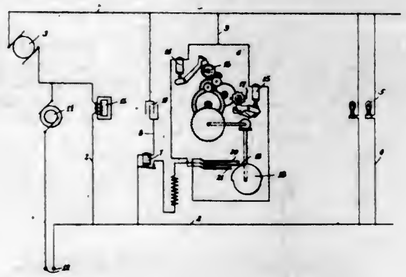
2. A device for sprouting seeds comprising a germinating chamber having a water jacket, the bottom of said chamber being also adapted to contain water, an electrical heater located between the walls of the water jacket at the bottom of the chamber, a pipe extending from a point adjacent said heater to the front of the top portion of the water jacket, a heat regulator for said heater, a thermometer associated with said chamber, a closure for said chamber, and wire screen shelves upon which seeds are adapted to be placed for insertion into and removal from the chamber.

1,376,999. LOCKING DEVICE FOR AUTOMOBILES. ARTHUR F. BRODERICK, Jersey City, N. J. Filed Apr. 3, 1920. Serial No. 370,948. 5 Claims. (Cl. 188—31.)



1. In an automobile having an axle housing provided with a flange and a brake drum, coöperating means connected therewith comprising a lock mechanism adapted to be actuated by a key to lock said flange and brake-drum together.

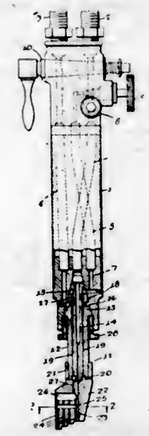
1,377,000. SYNCHRONIZING CLOCK SYSTEMS. JAMES W. BRYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed May 13, 1920. Serial No. 381,013. 3 Claims. (Cl. 58—24.)



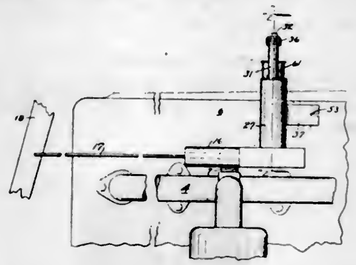
1. The combination with an electric circuit of a secondary clock connected therewith in a normally open path, a source of current of different character from that flowing in the said circuit and means for superimposing such different current on the circuit, of a cross circuit which permits such different current only to flow through it, and means therein for closing or controlling the clock circuit, as herein set forth.

1,377,001. CUTTING-TORCH. WORTHY C. BUCKNAM, Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1919. Serial No. 278,201. 4 Claims. (Cl. 158—27.4.)

2. A cutting torch having means for receiving and conducting oxygen and a combustible gas, forming a heating mixture of the gas and part of the oxygen and delivering the other part as a cutting jet, characterized by a nozzle part having means for delivering the heating mixture along a line extending in advance of the cutting jet.

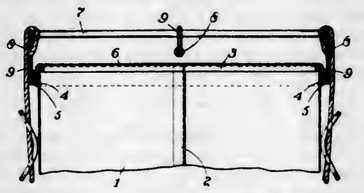


1,377,002. AUTOMOBILE-ENGINE STOP. FORREST L. CANTRALL, Oakland, Calif., assignor to Harry M. Bennett, Oakland, Calif. Filed Apr. 14, 1919. Serial No. 289,855. 21 Claims. (Cl. 123—146.5.)



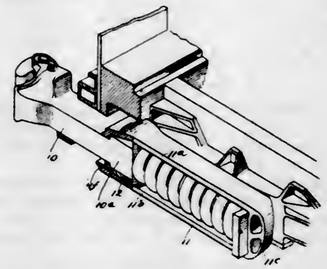
1. An attachment for automobile engines comprising means for stopping the engine, means operated by the engine for actuating said stopping means, and means effective when the transmission system of the automobile is inoperative for initiating the operation of said actuating means.

1,377,003. COLLAPSIBLE DRUM. ATHERTON D. CONVERSE, Winchendon, Mass. Filed Aug. 26, 1920. Serial No. 406,091. 4 Claims. (Cl. 84—412.)



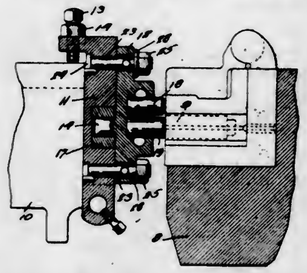
1. A collapsible drum comprising a one-piece barrel, said barrel being formed of a sheet of material rolled into shape, the ends of which are secured to each other, a barrel retaining ring mounted externally upon the end of said barrel to prevent said barrel from opening, a drum head mounted upon said retaining means, and a stay hoop engaging the drum head.

1,377,004. DRAFT-YOKE. ROY J. COOK, Chicago, Ill., assignor to George C. Murray, Chicago, Ill. Filed Sept. 10, 1917. Serial No. 190,628. 5 Claims. (Cl. 213—42.)



1. In combination, a yoke having upper and lower arms and a hooded forward end, transverse shoulders at the forward ends of said upper and lower arms, a coupler having a shouldered butt adapted to be inserted between said shoulders into said forward end, and an integral shouldered block supported directly on said lowered arm and engaging directly the lower shoulder of said butt, said block being insertible into said hooded end from the rear thereof, after rearward displacement of said coupler, the upper surface of said butt engaging directly the upper arm of said yoke within said hooded end.

1,377,005. SWIVEL-BLOCK FOR HEADING-MACHINES. HAROLD P. DEELY, Waterbury, Conn. Filed July 3, 1920. Serial No. 393,961. 2 Claims. (Cl. 10—26.)

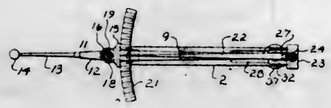


1. A die block holder for heading machines comprising a supporting member formed with a recess therein, an apertured block pivotally mounted within said recess, a swiveled die holder having a projection fitted within said apertured block, bolts for clamping the die holder to said support, and screws coöperable with said clamping bolts for effecting angular adjustment of the die holder, substantially as set forth.

1,377,006. INDICATOR. CHARLES M. DEMING, Dayton, Ohio. Filed June 22, 1916. Serial No. 105,177. Renewed Sept. 29, 1920. Serial No. 413,636. 6 Claims. (Cl. 33—172.)

1. A device of the class described comprising a body, a feeler member, the body being provided with pivots to mount the feeler member to present long and short

branches, a needle pivotally mounted at its butt, upon the body, the needle having an operative connection with the long branch of the feeler, a pair of springs of equal

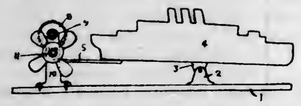


force supported by the body, the free ends of the springs acting against the needle, and means acting on the free ends of the springs to adjust the same in a plane parallel to that of the swing of the needle.

1,377,007. FELTED MATERIAL AND PROCESS OF MAKING SAME. ANSEL C. DENNING, Johnson City, N. Y. Filed Mar. 16, 1920. Serial No. 366,400. 5 Claims. (Cl. 92—3.)

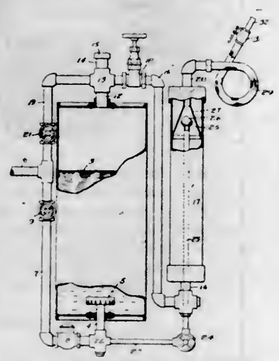
1. A felted material of the character described, composed of cotton and woolen rags and tannery hair, the proportion of cotton and of tannery hair being each greater than the proportion of wool in the resultant material.

1,377,008. WIND-CLUTCH. MILTON S. DUNKELBERGER, Dayton, Ohio. Filed Oct. 31, 1919. Serial No. 334,782. 2 Claims. (Cl. 46—37.)



2. The combination with a device mounted on a pivot, of a standard, a transverse shaft journaled in said standard, a wind wheel fast on one end of said shaft and a pinion fast on its other end, a stub shaft journaled in said standard, a gear on said stub shaft in mesh with said pinion, a wrist pin on said gear, and a connecting rod having one end pivotally secured by said wrist pin to the gear, and its other end adapted to be attached to the said device to move the latter on its pivot.

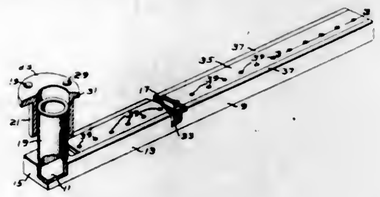
1,377,009. PROCESS OF AND APPARATUS FOR APPLYING LIQUID TO SURFACES. CLEMENT E. DUNN, Burlingame, Calif. Filed Sept. 19, 1916. Serial No. 120,970. 8 Claims. (Cl. 91—45.)



1. The process of projecting liquid, which consists in agitating a body of liquid with compressed air, charging said air with liquid by causing liquid to be drawn in an annularly formed spray into a rapidly moving current of said air thereby forming a mixture, forming said mixture into a solid stream, and discharging the mixture.

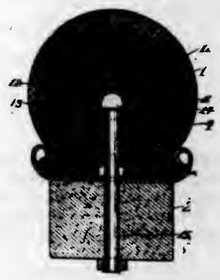
5. In a spraying apparatus, a cone through which air passes and means in said cone operated by an excessive speed of air therethrough for blocking the passage of air through the cone.

1,377,010. COMBUSTION-PROMOTING DEVICE FOR STOVES. NAPOLEON H. FERLAND, Norwood, Mass., assignor to The American Novelty Company, Incorporated, Norwood, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1919. Serial No. 324,824. 3 Claims. (Cl. 126—15.)



1. A combustion promoting device for stoves, comprising an elongated box provided with closed sides and ends and having a row of outlet ports in its upper face, said box constructed to be positioned within a stove and be supported on the top of the oven, and arranged to extend across the path of travel of the gases passing from the fire-box to the chimney, an inlet neck rising from the top of the box and communicating with the interior of the box, and a stove top section having a collar depending therefrom for admitting air into said inlet neck and telescopically adjusted on the neck so that the box may be positioned in chambers of different depths between the oven and the top of the stove.

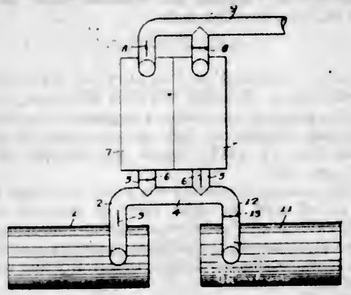
1,377,011. ELASTIC TIRE. KINSUKE FUKUDA, Tokyo, Japan. Filed Oct. 30, 1920. Serial No. 420,596. 6 Claims. (Cl. 152—5.)



5. A packing for tires comprising an elastic body part formed of a band having a plurality of ridges and so formed that when folded edge to edge the band will fit within and fill a tire casing and a detachable elastic core having radial wings and arranged within said body part, said core being formed with a central air chamber and provided with tubes leading from said air chamber to the open air and with a flexible metallic lining.

1,377,012. PROCESS OF RECOVERING SULFUR DIOXID. WILLIAM H. HOWARD, Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed May 10, 1918. Serial No. 233,640. 12 Claims. (Cl. 75—17.)

1. The process of recovering sulfur dioxid from copper matte, which consists in treating the copper matte to drive off gases having a relatively low sulfur dioxid content, then removing portions of the matte and successively

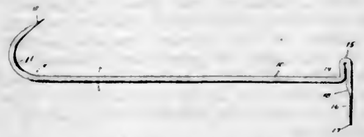


blowing such portions for predetermined periods of time to maintain a continuous flow of gas having a relatively high sulfur dioxid content and free from solid impurities.

1,377,013. PROCESS FOR OBTAINING A CONTINUOUS FLOW OF SO_2 FROM WHITE METAL. WILLIAM H. HOWARD, Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 10, 1920. Serial No. 364,836. 10 Claims. (Cl. 23—1.)

6. The process of recovering sulfur dioxid from copper matte, which consists in successively treating different batches of the matte each for a predetermined time to remove the sulfur dioxid therefrom and without interruption between the periods of time, and continually collecting said sulfur dioxid to maintain a substantially constant supply of gas.

1,377,014. WRECKING-BAR. ALBERT JUELFS, McPherson, Kans. Filed Sept. 2, 1920. Serial No. 407,719. 2 Claims. (Cl. 254—131.)



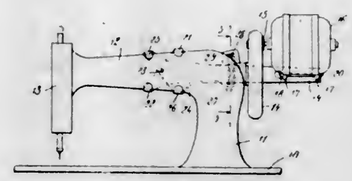
1. A device of the character described comprising a bar formed at one end with a laterally extending impact receiving portion adapted to be struck and formed at its terminal portion with a flattened and widened portion extending in the opposite direction to and alining with said impact receiving portion and constituting a chisel blade, the juncture of one face of the blade with the bar being inclined whereby to constitute a wedge.

1,377,015. GUN-FIRING DEVICE. HARRY N. MCGRATH, San Francisco, Calif. Filed Mar. 31, 1920. Serial No. 370,078. 1 Claim. (Cl. 42—1.)



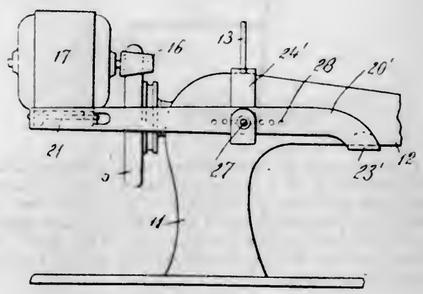
A pistol firing apparatus comprising a pistol, a belt to secure the pistol with the barrel pointing forward at the side of the person, a tubular member connected to the pistol and adapted to extend along the arm, an operating rod within the tubular member for moving the pistol trigger to fire it, a spring for holding said operating rod in a safe position, an operating button within the reach of the fingers and means to secure said operating button to the hand.

1,377,016. MOTOR-BRACKET. HYMAN MAIMIN, New York, N. Y. Filed Nov. 13, 1919. Serial No. 337,643. 11 Claims. (Cl. 248—20.)



1. The combination with the frame and wheel of a machine to be driven, of a bracket, a motor pivotally mounted upon the outer end of the bracket and adapted to be held in operative relation to the wheel of the machine by its weight, and means associated with the bracket for engaging opposite sides of the machine frame, whereby the turning moment due to the weight of the motor is opposed and the bracket held upon the frame.

1,377,017. SUPPORT FOR SEWING-MACHINE MOTORS. HYMAN MAIMIN, New York, N. Y. Filed Dec. 8, 1919. Serial No. 343,215. 6 Claims. (Cl. 248—20.)

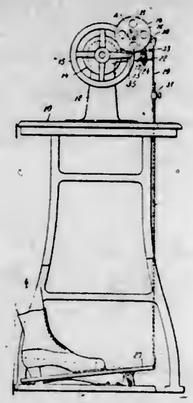


5. A bracket for supporting a motor upon the frame of a sewing machine provided with a spool spindle projecting from the top thereof, comprising a member upon the outer end of which the motor is mounted and provided with an extension adapted to engage the under side of the frame, and means associated with the member and adapted to engage the top of the frame and be held in place by the spool spindle whereby the turning moment due to the weight of the motor is opposed and the member is held upon the frame.

1,377,018. MOTOR-DRIVE FOR SEWING-MACHINES. HYMAN MAIMIN, New York, N. Y. Filed Dec. 8, 1919. Serial No. 343,216. 13 Claims. (Cl. 74—26.)

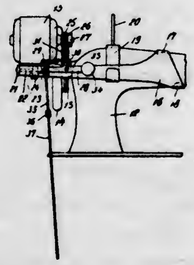
1. In a sewing machine provided with a driving wheel, the combination of a pivotally mounted motor adapted to be held in operative relation to the wheel of the machine by its own weight, and means for automatically lifting

the motor out of operative relation to the wheel of the machine and having a lost-motion connection with the



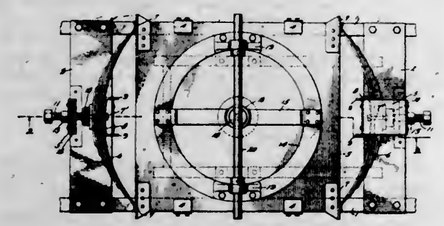
motor to permit the latter to assume its operative relation to the wheel of the machine unaffected by the lifting means.

1,377,019. BELT-DRIVE FOR SEWING-MACHINE MOTORS. HYMAN MAIMIN, New York, N. Y. Filed Dec. 22, 1919. Serial No. 346,704. 12 Claims. (Cl. 64—4.)



1. In a sewing machine provided with a driving wheel, the combination of a pivotally mounted motor provided with fast and loose pulleys, a belt associated with the pulleys and the driving wheel of the machine and adapted to be held under tension by the weight of the motor, and means mounted on the motor for shifting the belt from one pulley to the other.

1,377,020. FIFTH-WHEEL. MARK ALFRED MORSE, Jr., New Orleans, La., assignor to William H. Ward, New Orleans, La. Filed May 5, 1920. Serial No. 379,090. 5 Claims. (Cl. 280—33.1.)



1. The combination with chassis bars, of a vibrating plate mounted on said bars, spring supporting plates secured to said bars, springs having their intermediate portions adjustably secured to the spring supporting plates and their ends engaging the vibrating plate, and a fifth wheel on said vibrating plate.

1,377,021. PROCESS OF CLARIFYING AND DECOLORIZING OILS. RUSSELL WILLIAM MUMFORD, New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 11, 1917. Serial No. 179,930. 9 Claims. (Cl. 204—24.)

1. The process of treating oils which comprises mingling such an oil with an open textured granular vegetable carbon having open pores representing approximately the cellular structure of the original vegetable material from which it was made, agitating energetically and separating the oil and decolorant.

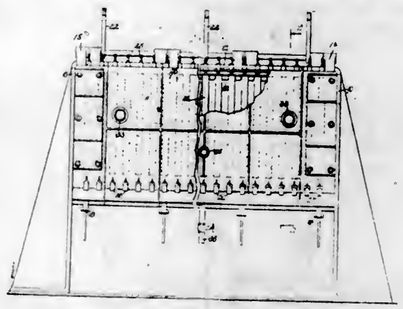
2. The process of treating oils which comprises mingling the oil with a plurality of successively added portions of open textured granular vegetable carbon having open pores respresenting approximately the cellular structure of the original vegetable material from which it was made, agitating energetically and separating the oil and decolorant.

3. The process of treating oils which comprises mingling such an oil at a temperature of about 100 C. with an open textured granular vegetable carbon having open pores representing approximately the cellular structure of the original vegetable material from which it was made, agitating energetically and separating the oil and decolorant.

4. In the brightening and decolorizing of oils, the process which comprises mingling such an oil with an open textured granular vegetable carbon having open pores respresenting approximately the cellular structure of the original vegetable material from which it was made agitating energetically and during such agitation maintaining the mixture under the influence of oppositely charged electrical poles, and separating the carbon and decolorant.

5. In the decolorizing and clarification of liquids with the aid of an open textured granular vegetable carbon having open pores representing approximately the cellular structure of the original vegetable material from which it was made, the process which comprises mixing such a liquid with such a carbon, energetically agitating the two together and during such agitation maintaining the mixture under the influence of oppositely charged electrical poles.

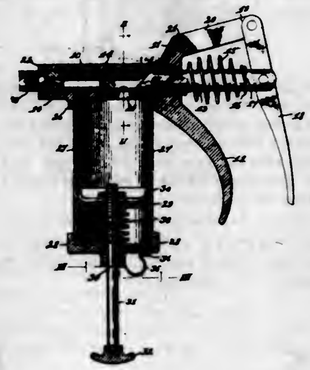
1,377,022. COMBINATION FILTER-PRESS AND DRIER. JOHN JAY NAUGLE, Brooklyn, N. Y. Filed Oct. 19, 1916. Serial No. 126,508. 3 Claims. (Cl. 210—182.)



3. In a filter press, a casing presenting a stationary wall section and a movable section complementing the wall section to form the housing, means for locking the two sections together, a shoulder on the wall section, filter plates within the housing extending from the wall section

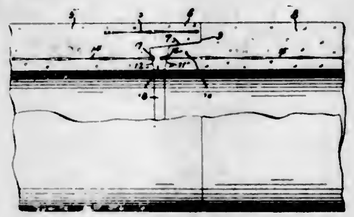
and supported by the shoulder, means forming joints between said plates and wall section through which communication may be established with the plates through the wall section, and means locking the plates to the wall section, and adapted to maintain tight joints between the plates and the wall section.

1,377,023. LUBRICATING DEVICE. BERNARD S. NELSON, New Orleans, La. Filed June 29, 1920. Serial No. 392,749. 3 Claims. (Cl. 184—28.)



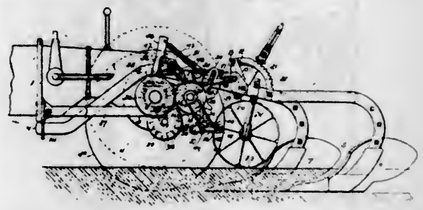
1. A lubricating device comprising a cylinder having a bore and an inlet port and a discharge passage, a plunger reciprocating within said bore, a lubricant receptacle attached to said cylinder and having its interior communicating with said bore through said inlet port, a piston within said receptacle for feeding the lubricant within the receptacle through said inlet port into said bore of the cylinder, a combined rotatable and reciprocating rod provided with a notch and connected to said piston, a spring catch adapted to engage said notch, and means connected to said plunger and cylinder for reciprocating said plunger within the bore to withdraw the lubricant from said receptacle into said bore and eject the lubricant from the bore through the discharge passage.

1,377,024. PIPE-JOINT. STEPHEN EUGENE PAGE, Brooklyn, N. Y., assignor to United Concrete Pipe Co., New York, N. Y., a Corporation of Delaware. Filed Nov. 7, 1919. Serial No. 336,496. 2 Claims. (Cl. 72—53.)



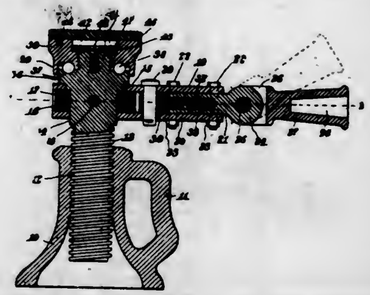
1. A reinforced concrete pipe joint comprising abutting surfaces at the outer area of the joint, an undercut annular packing recess at the inner area of the joint, a metal mesh reinforce embedded in the concrete and projecting into said recess from one side to support a mortar fill while plastic, and to tie the latter to said side when the fill has hardened, together with concrete rib means cast integral with the opposite side of the recess to assist in supporting said mortar while plastic, but permitting the mortar fill to part freely from said side on contraction of the pipe lengths incident to low temperature conditions, while at the same time affording an extended creepage surface and thus minimizing leaks at the joint when the latter tends to open, together wth mesh reinforce extending into and supporting said rib means.

1,377,025. ENGINE GANG-PLOW. WILLIAM L. PAUL, San Francisco, Calif., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Dec. 22, 1916. Serial No. 138,317. 4 Claims. (Cl. 97—70.)



1. The combination with a wheeled draft member, a plow beam connected with said wheeled draft member forwardly of the rear axle of the latter, and a member pivotally connected with the wheeled draft member and with an intermediate portion of the plow beam, of a lifting lever carried by the wheeled draft member, a member connected with said lifting lever and with the pivoted member in proximity to the connection of the latter with the plow beam, gearing between said lifting lever and a wheel of the wheeled draft member, and means for connecting said lifting lever with said gearing.

1,377,026. LIFTING-JACK. EDWARD R. PENROSE, Logansport, Ind. Filed Aug. 17, 1920. Serial No. 404,138. 3 Claims. (Cl. 254—101.)

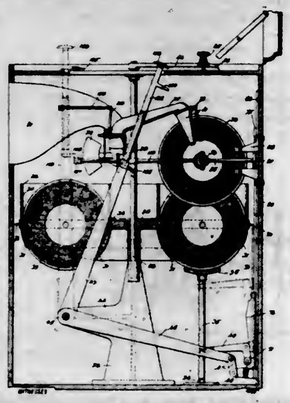


1. The combination of a base provided with a non-revoluble nut; a lifting screw for said nut having formed integral therewith near the upper end thereof a flat-sided portion and cylindrical bearing surfaces on opposite sides thereof of a greater diameter than that of said screw; a ratchet fitted to said flat-sided portion; a pin extending through said ratchet and screw; and screw operating mechanism having bearings on said cylindrical bearing surfaces and adapted to be oscillated about the axis of said screw.

1,377,027. PHONOGRAPH. CHARLES ALFRED PETTIT, St. Louis, Mo. Filed Mar. 24, 1920. Serial No. 368,478. 11 Claims. (Cl. 274—10.)

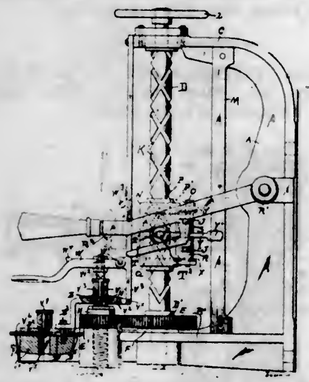
1. A magazine phonograph, including a magazine adapted to receive records, means for moving one of said records out of said magazine, means for bringing the reproducer to bear against either surface of said record, and means for rotating such record.

9. A phonograph, including a magazine adapted to receive a variety of records, means adapted to move one of said records from said magazine, and means for rotating



said record, a reproducer, and means for moving said reproducer to bear against either of the surfaces of the record to be played, and for reversing the direction of rotation of said record rotating means.

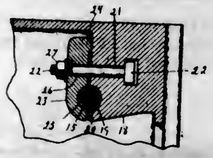
1,377,028. TIRE-NUT-TURNING DEVICE. CLIFFORD O. POOLE, Cobden, Ill. Filed Aug. 11, 1919. Serial No. 316,668. 1 Claim. (Cl. 81—56.)



The combination with a frame embodying spaced vertical journal bearings, of a shaft reversely spiraled journaled in the bearings, operating means slidable upon the shaft, bars rigidly secured to the frame upon opposite sides of and in parallelism with the shaft, means engaging one of said bars for holding the operating mechanism against rotation, an offset rigidly connected with the other bar and provided with a seat, a wrench member mounted to rotate in the seat, means connecting the wrench member with the shaft, a manual lever pivoted to the last mentioned bar, an engaging member carried by the lever, provided with a plurality of engaging points, a lever adapted to actuate the operating means, and an additional means for applying power to the shaft.

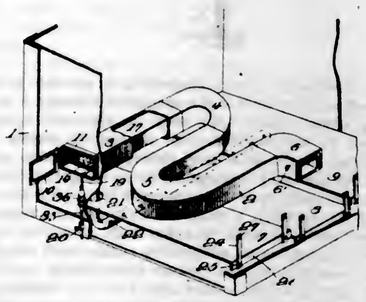
1,377,029. GROUND-BOX. RICHARD R. SCOGGAN, Jeffersonville, Ind., assignor to Ky. Switch & Signal Co., Inc., St. Matthews, Ky., a Corporation of Kentucky. Filed Feb. 12, 1920. Serial No. 358,244. 3 Claims. (Cl. 64—10.)

3. In a ground box for switch throwing mechanism having a solenoid within the box provided with a movable plunger, a lever for throwing the switch connected at one end to said plunger and having a depending journal pin at the other end, the combination of an abutment extending into the interior of said box having a T-slot and a groove formed therein, a jaw member having a groove near one end adapted to register with the groove of said abutment, a projecting rib adapted to contact with said abut-



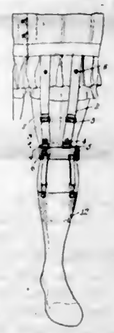
ment and an intermediate aperture in alinement with a portion of said T-slot, a bushing for rotatably receiving said journal pin, said bushing being mounted in said registering grooves and a bolt located in said T-slot and passing through said aperture whereby said jaw may be rocked about the projecting rib as a pivot for tightly clamping said bushing in position.

1,377,030. HEATING APPARATUS. JOHN S. SHANKS, Canton, Ohio. Filed July 27, 1916. Serial No. 111,700. 14 Claims. (Cl. 126—85.)



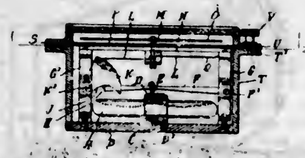
1. An improved heating apparatus comprising a housing, a serpentine-shaped radiator tube within the housing, the tube having inlet and outlet ends opening outside of the housing, a burner in the inlet end of the tube, a perforated shield in the inlet end of the tube and in front of the burner, the tube having an air inlet opening in the rear of the shield and communicating inside of the housing.

1,377,031. HOSE-SUPPORTER. RICHARD MONROE SILVA, Brooklyn, N. Y. Filed Aug. 26, 1920. Serial No. 406,115. 3 Claims. (241—1.)



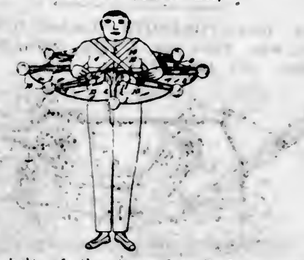
1. A hose supporter attached to a body garment, comprising a band attached to the limb of the wearer some distance from the garment, an elastic connection between the band and the garment, hose-supporting means, means on said band, and means on said elastic connection intermediate its length between the band and said body garment, both of said means adapted to coöperate with said supporting means to support short or long hose, respectively.

1,377,032. ANEROID BAROMETER. SYDNEY GEORGE STABLING, Forest Gate, and ARTHUR JOSEPH HUGHES, London, England, assignors to Henry Hughes and Son Limited, London, England, a Corporation of England. Filed Dec. 23, 1918. Serial No. 268,062. 3 Claims. (Cl. 73—4.)



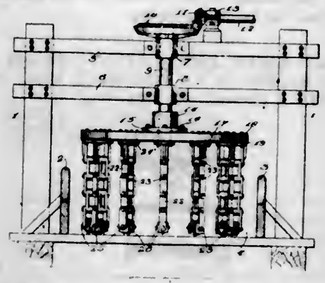
1. An aneroid barometer comprising a vacuum box, a lever in operative relation with said vacuum box and adapted to be moved in response to variations in the barometric pressure as the same affects said box, a pivoted segment having an under cam face freely resting upon the free end of said lever and movable about its pivot with the latter, indicating means, and a connection between said indicating means and said segment, substantially as described.

1,377,033. LIFE-BELT. JOSEPH SZAKÁCS and SZABO FERENCZ, Cleveland, Ohio. Filed Nov. 12, 1920. Serial No. 423,524. 5 Claims. (Cl. 9—17.)



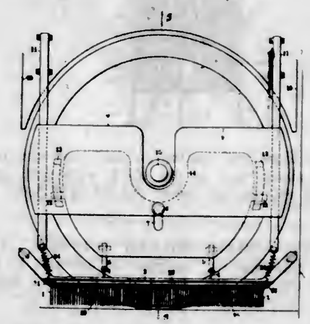
1. A life belt of the type described comprising an apron section, a closing placket therefor and radial float arms carried by the apron section.

1,377,034. CLAY-DISINTEGRATING MACHINE FOR SLUICE-BOX DREDGES. WILLIAM TELFORD and ROBERT J. MCLEAN, Paracale, Philippine Islands. Filed Oct. 6, 1920. Serial No. 415,111. 7 Claims. (Cl. 83—45.)



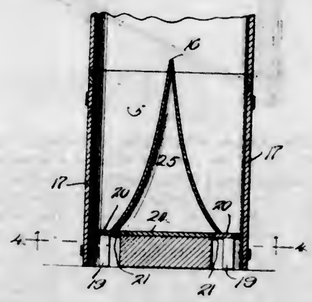
1. In a disintegrating machine, the combination of rotary supporting means, and cutting members extending downwardly from the supporting means and composed of a plurality of chain links having their pivots arranged radially to permit swinging of the members in the direction of their movement but acting to prevent their swinging outwardly by centrifugal force, substantially as described.

1,377,035. ANTISPLASH-GUARD FOR MOTOR-VEHICLES. LUCIEN EMILE VASSEUR and MICHEL TCHOUBRITCH, Viroflay, France. Filed Apr. 26, 1919. Serial No. 292,911. 9 Claims. (Cl. 280—153.)



1. An anti-splash guard comprising a frame formed of parallel side bars bent upward and inward at the ends, said ends being connected together by pivots disposed angularly to permit the relative yielding of the side bars; spring pistons between the side bars of the frame; a brush mounted in said frame; and means for supporting the said brush frame on a movable plate mounted on a second plate secured to the chassis of the vehicle.

1,377,036. SILO-TRAP-DOOR CONSTRUCTION. HERBERT WADSWORTH, Avon, N. Y. Filed Nov. 26, 1920. Serial No. 426,577. 1 Claim. (Cl. 20—1.2.)

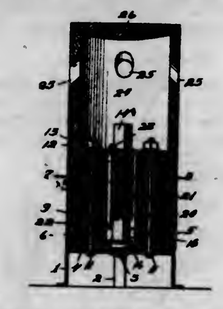


A silo comprising a container having a bottom wall and side walls, doors in said side walls surrounding said bottom wall, a cone-shaped member on said bottom with its apex extending upwardly into the interior of said container, and doors in said bottom wall disposed about the base of said cone-shaped member.

1,377,037. ELECTRIC HEATER. EDWARD WALDER, Kansas City, Mo. Filed Aug. 26, 1920. Serial No. 406,109. 4 Claims. (Cl. 219—34.)

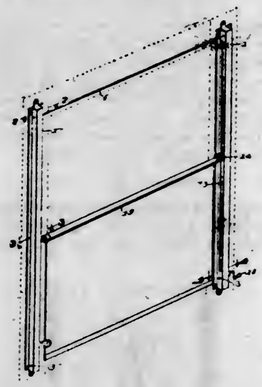
1. A heater comprising a skeleton base, a cement block resting upon the base and provided with an opening, a second cement block superimposed upon the first and provided with a registering opening, a plurality of tubes extending vertically through the passage formed by said registering openings, means for fastening said tubes to the said base, resistance coils encircling said tubes and

connected together to transmit electric current from one of the coils to the other, a hollow cylindrical body in-



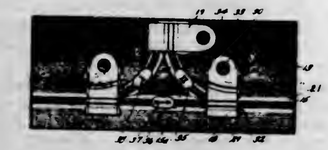
closing said block and resting on said base and provided in a plane above that of the block with exit openings, and a cover closing the upper end of said body.

1,377,038. SHADE-ROLLER SUPPORT. LEONARD WALKER, Chicago, Ill., assignor of one-half to Richard La Rock, Chicago, Ill. Filed May 8, 1919. Serial No. 295,754. 3 Claims. (Cl. 156—27.)



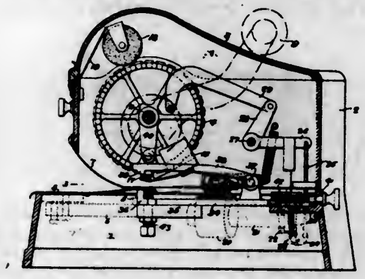
3. The combination with a pair of housings for disposition vertically on the vertical stiles of a window frame, the said housings being formed with longitudinal slots on their facing sides, shade roller brackets slidably mounted in said slots, webs within the housings and formed with perforations, sprocket wheels carried by the brackets and engaging in the said perforations, chains within the housings and engaging the sprockets, and means for supporting and rotating the chains whereby the brackets may be elevated in the manner and for the purpose specified.

1,377,039. PUZZLE. JOHN VANDEVER WELLS, New York, N. Y., assignor of one-fourth to John Yuengling, Morristown, N. J. Filed Apr. 17, 1920. Serial No. 374,620. 6 Claims. (Cl. 46—41.)



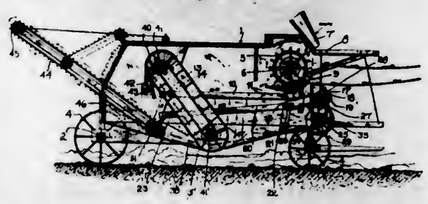
4. In a puzzle, a metal box, a plurality of oblique track flanges formed in said box, a plurality of switches slidably associated with said track flanges, a plurality of branch tracks associated with said box, and a plurality of fingers associated with said branch tracks adapted to extend through perforations in said box so as to secure said branch tracks to said box.

1,377,040. CHECK PRINTING AND SCARIFYING MACHINE. JOHN WHITAKER, Lansdale, Pa., assignor to Safe-Guard Check-Writer Company, Lansdale, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1919. Serial No. 283,704. 5 Claims. (Cl. 197—6.4.)



1. The combination in a machine for printing the amount indicating the value of a paper, of means for printing the amount; and independent means for scarifying another portion of the paper, such as the line of the payee's name on a check; an operating lever; connections between said lever and the printing and scarifying means, whereby said printing and scarifying can be effected by the movement of a single lever.

1,377,041. BEAN-THRESHER. LEONARD G. WILLGRUBS, Sparta, Wis. Filed Aug. 7, 1919. Serial No. 315,878. 1 Claim. (Cl. 130—30.)



A bean thresher comprising a casing with threshing means, the bottom of the casing having its lowest point at one side of the longitudinal center thereof, with oppositely disposed walls inclined toward said lower point, vibrating screens mounted within the casing at one side of said lowest point of said casing, an inclined endless conveyer housing mounted at one side of said screens, said housing conforming to the contour of the lowest part of the inclined walls of the casing.

1,377,042. KNIFE FOR CUTTERS. HORACE S. WILLIAMS, Brooklyn, N. Y. Filed May 5, 1920. Serial No. 379,030. 2 Claims. (Cl. 164—58.)



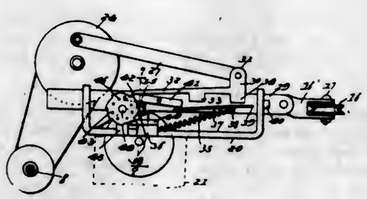
2. A device of the character described comprising a cutter bar having openings to receive cutter-securing bolts, a cutter, means for securing said cutter in place upon the cutter bar, detachable elevating means for said cutter, said cutter bar being provided with curved slots leading from one edge thereof to certain of the cutter-securing bolt-receiving openings to permit of the free passage of the cutter elevating means during the positioning of the cutter relative to the cutter bar.

1,377,043. TOASTER. CLARENCE WILSON, Waynesburg, Pa. Filed Jan. 3, 1920. Serial No. 351,185. 2 Claims. (Cl. 53—5.)



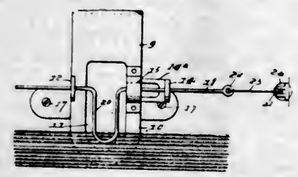
1. A toaster including a plurality of tines and a support constructed of a single length of wire bent upon itself to provide a rectangular frame and a handle, the opposite side rails of said frame being of arcuate formation and provided with spaced offset bends to provide bearings for the tines, whereby the support may be arranged in a horizontal plane on a stove for supporting the article to be toasted on the tines in spaced relation to the stove or whereby the articles to be toasted may be penetrated by the tines and the support suspended vertically by its handle.

1,377,044. ATTACHMENT FOR SLASHERS AND FINISHERS. GEORGE H. WILSON, Augusta, Ga. Filed May 7, 1919. Serial No. 295,430. 16 Claims. (Cl. 28—7.)



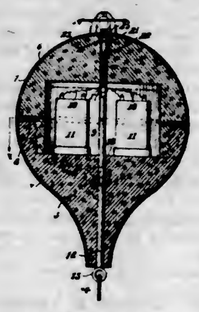
16. The combination with a slasher, of means having operative connection with the slasher to produce gaps in the selvage edge of a warp carried on the slasher.

1,377,045. WARP STOP DEVICE. GEORGE H. WILSON, Augusta, Ga. Filed May 13, 1920. Serial No. 381,072. 8 Claims. (Cl. 139—92.)



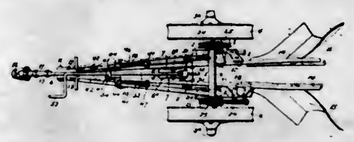
4. The combination with a loom equipped with a warp stop operating device and carrying a warp prepared at predetermined points with gaps, of a gravity actuated member traversing the warp in the path of the gaps and provided with means for operative engagement with the said warp stop operating device, the said member being movable through the gaps and actuable upon encountering any one of the same.

1,377,046. WRECK-INDICATING BUOY. MICHAEL S. ZAPPEY, Johnstown, Pa. Filed Oct. 6, 1920. Serial No. 414,989. 2 Claims. (Cl. 9—9.)



1. A wreck indicating buoy including a float formed of upper and lower detachably connected sections having pockets forming a central closed chamber when the sections are connected, a tube extending axially through said sections and having an electric lamp detachably secured in its upper end, means upon the lower end of said tube for permitting ready attachment of a cable thereto whereby the float may be flexibly connected to the deck of a vessel, battery cells within said chamber having wires electrically connected to said tube, a contact fixed to and insulated from said tube and having other wires of said battery electrically connected thereto, and a vertically slidable contact member carried by the upper section arranged to provide electrical connection between said fixed contact and the central contact of the electric lamp when elevated, whereby a circuit is established for lighting said lamp.

1,377,047. PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Mar. 17, 1920. Serial No. 366,617. 4 Claims. (Cl. 97—54.)



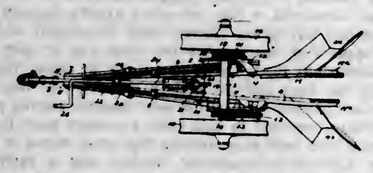
1. In a tractor drawn two-way plow structure, the combination with a frame including upright guide members, and two ground wheels on which said frame is mounted, of two plow beams pivotally connected with the forward portion of said frame, tubular guiding members secured to the plow beams and movable on said guides, wheels at the upper end portions of said upright guides, drums adapted to be connected with said ground wheels, chains secured to said drums and passing over the wheels at the upper ends of the upright guide members and secured to the tubular guiding members on the plow beams, and separately controlled means for connecting each drum with the adjacent ground wheel.

2. In a tractor drawn, two-way plow, the combination with a frame adapted for construction with a tractor, and ground wheels on which said frame is mounted, of plow beams pivotally connected with the forward portion of said frame, curved upright members forming parts of said frame, guides secured to the plow beams and movable on said curved upright members, winding drums, wheels at the upper ends of said curved upright members, chains connected with the plow beams, passing over said wheels and adapted to wind on said drums, means for connecting said drums with and for disconnecting them from the ground wheels, and means on the frame to support one or the other plow beam in working position.

3. In a tractor-drawn two-way plow structure, the combination of a wheeled frame, means for connecting the forward end thereof with a tractor, plow beams having their forward end portions pivotally connected with the forward position of said frame, wheel operated power lift mechanism connected with each of said plow beams, and means on the frame for supporting one or the other plow beam in working position.

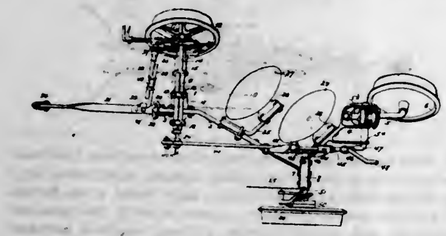
4. In a tractor-drawn two-way plow structure, the combination of a wheeled frame, means for connecting the forward end thereof with a tractor plow, beams having their forward end portions pivotally connected with the forward portion of said frame, of wheel operated power lift mechanism connected with each of said plow beams, means on the frame for supporting one or the other plow beam in working position, and means forming parts of the power lift mechanism to hold one or the other plow beam in raised position.

1,377,048. PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Mar. 17, 1920. Serial No. 366,618. 3 Claims. (Cl. 97—36.)



1. The combination with the frame and independently vertically movable beams of a two-way plow, of a lever mounted on the frame and provided with parts at respective sides disposed under the respective beams and means for adjusting said lever.

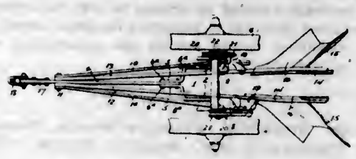
1,377,049. WHEELED PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Apr. 3, 1920. Serial No. 371,076. 6 Claims. (Cl. 97—54.)



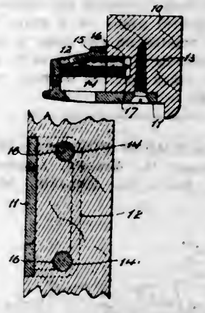
1. The combination with a wheeled frame including a land wheel and a straight axle therefor, a furrow wheel and an axle therefor, and earth-working means carried by said frame, of an actuating bar, rack-and-pinion gearing between said actuating bar and the straight land-wheel axle, connections between said actuating bar and the axle of said furrow wheel and the frame, whereby the furrow side of the frame will be raised when said actuating bar is moved in one direction by the rack-and-pinion gearing, and means for controlling the rotation of the land-wheel axle by the land wheel.

1,377,050. PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Original application filed Mar. 17, 1920, Serial No. 366,617. Divided and this application filed July 15, 1920. Serial No. 396,538. 2 Claims. (Cl. 97—36.)

1. In a plow structure, the combination of a rigid frame comprising a rear portion mounted on wheels and a central frame member rigidly secured to said rear portion and extending forwardly, devices at the forward end of said central frame member adapted for connection with a tractor, and plow beams pivotally connected near their forward ends to the central frame member of said rigid frame near the forward end of said frame member.

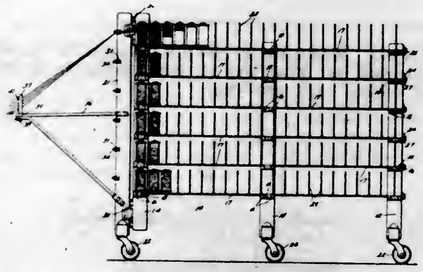


1,377,051. STRIKE OR KEEPER FOR RIM-LOCKS. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Oct. 20, 1920. Serial No. 418,183. 4 Claims. (Cl. 70—15.)



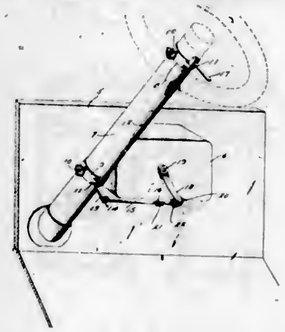
2. As a new article of manufacture, a lock strike having a flange for the securing screws and rigid cylindrical lugs at the two ends of the keeper parallel with said flange and adapted to enter holes or pockets in the front face of the jamb.

1,377,052. SPOOL-RACK. RALPH BLACK, New York, N. Y. Filed Apr. 12, 1920. Serial No. 373,234. 6 Claims. (Cl. 242—131.)



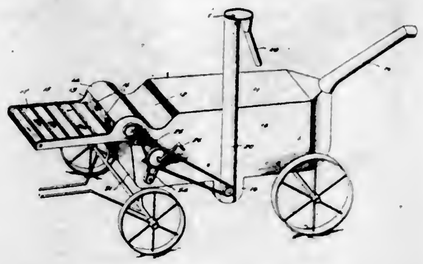
4. A spool rack comprising a front standard, a pair of spool carrying frame sections hingedly attached thereto at their forward ends and adapted for relative movements of their rear ends toward and away from each other whereby means is provided for adjustably supporting a plurality of rows of spools to permit of transverse variation of the distance between the threads leading therefrom and perforated bars constituting thread guides transversely mounted on the front standard, said bars being transversely adjustable whereby the same may be made to correspond to the width of the rack.

1,377,053. SWITCH-LEVER-OPERATING MECHANISM. HARRIS D. BLUMENFELD, Haverstraw, N. Y. Filed Dec. 29, 1919. Serial No. 347,979. 1 Claim. (Cl. 74—39.)



In combination with the switch key and steering column of a motor vehicle, a hooked member having one end passed through the switch key, means for adjustably securing said hooked member to the switch key, a plurality of supporting members secured to the steering column, an operating member mounted in said supporting members, and a link pivotally connected at one end to the operating member and having its other end formed with a hook adapted to receive the hook of the hooked member whereby the switch key may be operated upon movement of the operating member.

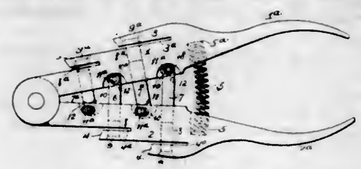
1,377,054. MECHANICAL TOY. JOHN BOE, Gravelbourg, Saskatchewan, Canada. Filed Aug. 22, 1916. Serial No. 116,373. 1 Claim. (Cl. 193—14.)



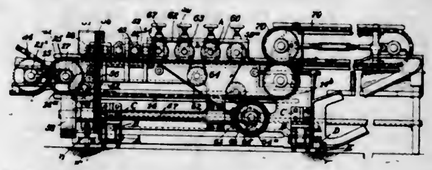
A device of the kind described comprising a casing, a grain hopper depending below the casing and disposed transversely thereacross, an elevator chute disposed beside the casing and connecting at its bottom with the grain hopper, the elevator chute being open at its upper end but having a downwardly directed inclined discharge spout, a feed screw rotatably mounted in the hopper and having a shaft one end of which is journaled in the elevator chute, the shaft carrying a pulley disposed adjacent the bottom of the elevator chute, a pulley rotatably mounted adjacent the top of the chute and adjacent that end of the discharge spout connecting with the chute, and an endless conveyer or elevator trained over said pulleys in the manner and for the purpose specified.

1,377,055. PUNCH. STERLING BOISSEAU, Richmond, Va. Filed July 31, 1920. Serial No. 400,445. 4 Claims. (Cl. 164—121.)

1. A multiple punch structure comprising two levers pivotally connected together at their forward ends, each of said levers having a ticket slot, a plunger male die connected with each lever, a female die carried by each lever for coöperation with said plunger male die, each of said levers having an opening for the plunger die on the other lever, said ticket slots and dies being located rearwardly of the pivotal connection at the forward ends of said levers.

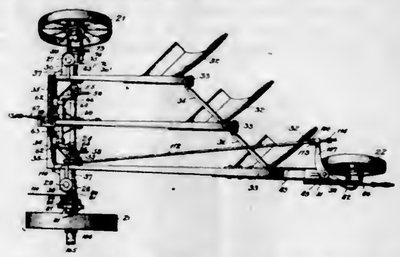


1,377,056. BRONZING-MACHINE. ADDISON W. BROCK, Baltimore, Md., assignor to H. Gamse & Bro., Baltimore, Md. Filed July 1, 1920. Serial No. 393,341. 4 Claims. (Cl. 91—59.)



4. In combination, in a bronzing machine, a frame, a carrier having grippers to transport the sheets to be bronzed, means for supplying bronze to the sheets and a plurality of polishing rolls with means for rotating them, and means for reciprocating each roll axially and out of time with the other, substantially as described.

1,377,057. TRACTOR-PLOW. WILLIAM W. CAMERON, La Crosse, Wis., assignor, by mesne assignments, to Fred Gerlach and Arnold B. Keller, trustees, Chicago, Ill. Filed Apr. 25, 1914. Serial No. 834,312. 49 Claims. (Cl. 97—54.)

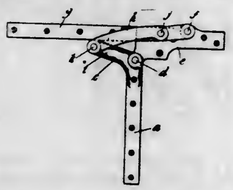


1. In a plow, the combination of a plow-carrying structure, a supporting structure comprising carrying wheels at the sides of the carrying structure respectively, a holding connection between the supporting structure and the front of the carrying structure whereby the structures will be held in connected relation and which permits vertical movement of the front of the carrying structure relatively to the carrying wheels, a rotatable lifting element on the supporting structure, and mechanism for rotating said element operable by power from one of said carrying wheels, said lifting element being separate from the holding connection and connected to shift the carrying structure independently of the holding connection.

1,377,058. HINGE FOR CLOSED BODIES OF MOTOR-CARS AND THE LIKE. ALBERT E. COLE, London, England. Filed Nov. 13, 1919. Serial No. 337,817. 2 Claims. (Cl. 296—108.)

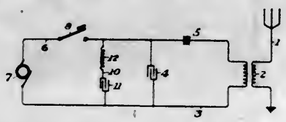
1. A hinge for closed bodies of motor cars and the like comprising a substantially inverted L-shaped member,

adapted to be fitted to the upper extremity of the center pillar; a plate, fitted to the front extremity of the back cant rail and pivotally connected at one end to the heel of the said L-shaped member and at its other end to a



straight member which is fitted to the rear extremity of the front cant rail and a link connecting the straight member near its pivoted end to the toe of the L-shaped member.

1,377,059. PRODUCTION OF ELECTRICAL-CURRENT PULSES. FULTON CUTTING, Tuxedo Park, N. Y., and BOWDEN WASHINGTON, Cambridge, Mass. Filed June 26, 1918. Serial No. 242,070. 8 Claims. (Cl. 250—37.)



6. Apparatus for producing current pulses separated by periods of substantially no current flow, comprising a pulsating current source, and a circuit containing inductance and capacity associated therewith so tuned with relation to the frequency of the pulsating current as to absorb energy from the feed current at the beginning and end of each pulsation and restore the absorbed energy during the middle of each pulsation, substantially as described.

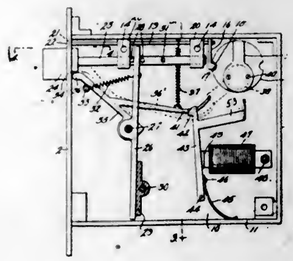
1,377,060. RECHARGEABLE ELECTRIC BATTERY. HENRY ROSENDAL DAM, Brooklyn, N. Y., assignor of one-half to Joseph Block, Brooklyn, N. Y. Filed Dec. 12, 1918. Serial No. 266,422. 10 Claims. (Cl. 204—29.)



7. In a dry cell of the type adapted to remain inactive until it is desired to put the cell into use, a cathode unit an anode unit including a container, and an activating unit initially maintained separate from said cathode and anode units, said activating unit comprising a frangible air tight, cylindrical container carrying a supply of activating paste.

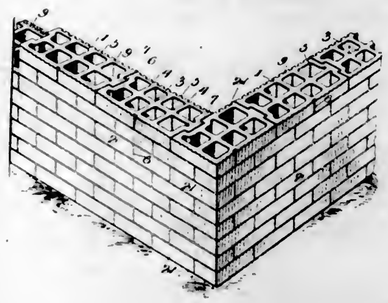
1,377,061. ELECTRIC DOOR-LOCK. GUSTAV DEEG, Newark, N. J. Filed Feb. 27, 1920. Serial No. 361,797. 3 Claims. (Cl. 70—50.)

1. In a door lock, a sliding element associated with said door, a fixed member, said sliding element being adapted to move axially so as to engage said fixed member and lock the door thereto, a door knob, means associated with said door knob for moving said slidable element axially so as to be disengaged from said fixed member, means released by electricity from a distant point for preventing



said sliding element from being disengaged from said fixed element by the door knob, and a lock coöperating with the electrical releasing means to actuate said means and move it from engagement with the sliding element whereby the sliding element may be disengaged from the fixed element by the movement of the door knob.

1,377,062. WALL CONSTRUCTION. GEORGE R. DE FORREST, Uhrichsville, Ohio. Filed Dec. 19, 1916. Serial No. 137,791. 3 Claims. (Cl. 72—38.)

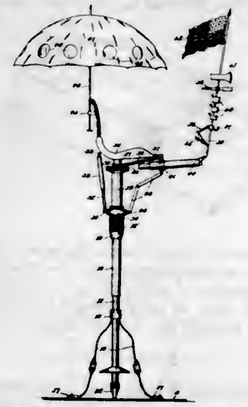


2. A hollow building block in width equal to the width of the wall to be built, said block formed with a plaster receiving side face and the opposite side face finished to present the appearance of face brick, the hollow interior of said block formed with a center transverse web and the finished face of said block formed with a vertical mortar retaining groove arranged in the same vertical plane as the center transverse web whereby the side wall is not weakened by the formation of said groove therein.

1,377,063. HUNTER'S CHAIR. JOHN GAJ, Detroit, Mich. Filed Jan. 23, 1920. Serial No. 353,406. 1 Claim. (Cl. 155—52.)

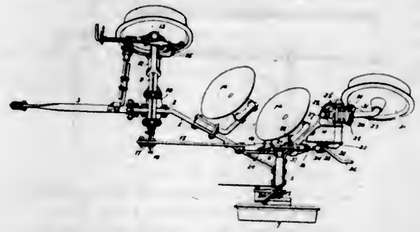
A hunter's chair comprising a movable seat portion, a standard for supporting the same, said standard embodying resiliently connected sections at its lower end, a resilient connection between the seat and the upper end of the standard, the resilient connection between the seat and standard embodying a projection formed upon the bottom of said seat, a rotatable cap carried by the upper

end of said standard for supporting said projection, a rod carried by said projection and extending downwardly into
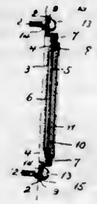


said standard, a coil spring surrounding said rod and cooperating means carried by said rod and standard for placing the spring under tension.

1,377,064. ADJUSTING MEANS FOR PLOWS. ARTHUR D. GALLAGHER, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed May 24, 1920. Serial No. 383,748. 4 Claims. (Cl. 97—54.)



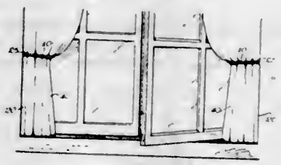
1. The combination with a wheeled plow including a rear furrow wheel and a pivotal crank axle structure therefor, and power lift mechanism including a longitudinally movable actuating bar, of an internally threaded sleeve connected with said actuating bar, a manually operable shaft having swivel connection with said crank axle structure and having a threaded portion entering said sleeve.

1,377,065. INDICATING AND IDENTIFYING MEANS. WILLIAM GANLEY, Pittsburgh, Pa., assignor to Radium Dial Company, Pittsburgh, Pa. Filed Mar. 20, 1918. Serial No. 223,508. 1 Claim. (Cl. 40—134.)



The combination with a frame plate, of a disk of transparent material disposed over said frame plate and having its major portion spaced from said frame plate, said disk having its rear face coated with luminous material and spaced from the frame plate whereby said coating will be protected, a recessed gasket disposed on said frame plate and overlying the edge portion of the coated disk, a front plate having an opening forming a character designation and provided with a part overlying said gasket, a transparent plate disposed between said gasket and said front plate, and means whereby the frame plate and front plate are secured together with the transparent coated disk, gasket and transparent plate clamped between them.

1,377,066. CURTAIN-HOLDER. LILLIAN B. GARRABRANT, Brooklyn, N. Y. Filed Oct. 21, 1920. Serial No. 418,375. 3 Claims. (Cl. 156—33.)



3. A curtain holder comprising a flexible curtain encircling member, an attaching member secured to one end of the said encircling member, a pin having a screw and collar, a button in which screws the said screw, the latter passing through the said attaching member to fasten the button to the attaching member, and a holding member held on the other end of the said encircling member and having hooking means adapted to hook onto the said pin.

1,377,067. VIOL. ADOLPH F. GROEBL, Oyster Bay, N. Y. Filed Aug. 3, 1920. Serial No. 401,001. 4 Claims. (Cl. 84—275.)

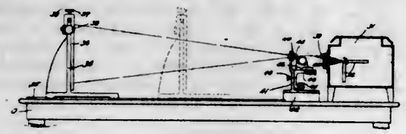


1. In a viol of the character described, a neck and a body connected therewith, a parchment head for said body, a bracing plate extending from one side to the other of said head, strings mounted to extend over said head, a bridge for supporting said strings, said bridge resting on said parchment head, and an auxiliary bridge engaging said plate, the auxiliary bridge being arranged opposite the first mentioned bridge.

1,377,068. PROCESS OF INSPECTING AND GAGING SCREW-THREADS. JAMES HARTNESS, Springfield, Vt. Filed Jan. 16, 1919. Serial No. 271,540. 11 Claims. (Cl. 88—24.)

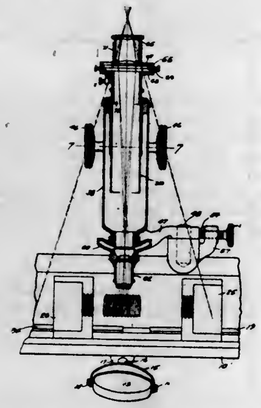
1. A method of inspecting and gaging screws, which consists in magnifying a portion of a thread thereof, which is spaced from a fixed point by which another por-

tion of the screw is located, and comparing the magnified portion with a chart which indicates a similar magnification of a standard thread, so that the relative position of



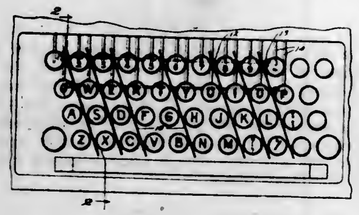
the two portions of the thread may be compared with the like portions of a standard thread and the errors of form, diameter and lead, if any, may be noted.

1,377,069. MECHANISM FOR GAGING SCREW-THREADS. JAMES HARTNESS, Springfield, Vt. Filed Sept. 16, 1919. Serial No. 324,108. 3 Claims. (Cl. 88—39.)



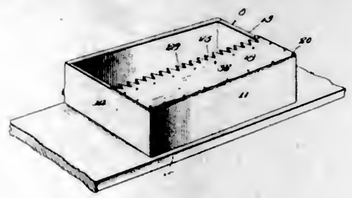
1. An apparatus for gaging screw threads comprising a microscope, a fixed device for accurately locating the helix of a screw longitudinally and transversely to bring into the optical axis a part of the same helix spaced from said fixed device, and a tolerance chart having indicated thereon the boundaries of permissive deviation from a standard thread, within which boundaries the image of such spaced part of said helix should lie.

1,377,070. KEYBOARD FINGER-GUIDE. IGNACIO HELGUERA, Trenton, N. J. Filed Dec. 26, 1919. Serial No. 347,290. 3 Claims. (Cl. 197—101.)



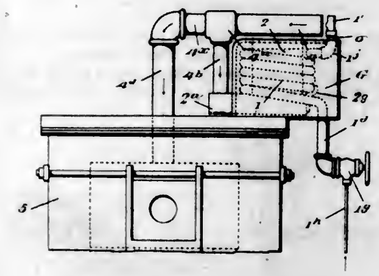
1. In a keyboard finger guide, the combination of a plurality of spaced parallel partitions, each partition having a pair of spaced holes therethrough and a pair of supporting rods loosely threaded through the holes of all of the partitions whereby the partitions may be disposed at oblique angles to the axes of the rods, and means to prevent separation of the partitions from the rods.

1,377,071. NAIL-REMOVER. CLAUDE J. HERSCHEL, St. Joseph, Mo. Filed Mar. 6, 1920. Serial No. 363,897. 10 Claims. (Cl. 254—18.)



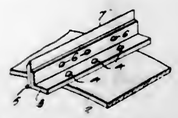
1. A nail remover comprising a flat sheet of metal having a plurality of notches along one longitudinal edge for receiving the shanks of nails, the other longitudinal edge portion of said sheet of metal being adapted for use as a fulcrum and a support for said flat sheet of metal.

1,377,072. KEROSENE-BURNER. CLARENCE A. HILL, Columbus, Ohio, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio, a Corporation of Ohio. Filed Oct. 11, 1919. Serial No. 330,061. 11 Claims. (Cl. 158—53.)



6. In a kerosene gas generating and burning apparatus, a casting having a cylindric portion whose interior forms an internal back pressure gas chamber with a spiral series of jet apertures in its sides, and a lateral extension below said chamber and communicating therewith; a spiral generating pipe surrounding the cylindrical portion of said casting; an air and gas mixing tube above the casting; a short tube extending at right angles to the mixing tube and communicating therewith and with the lateral extension of the back pressure chamber; a vertically disposed reservoir section at the receiving end of said generating pipe; means for supplying kerosene to said reservoir section; a jet-head connected with the discharge end of the generating pipe adapted to direct gas generated in the generating pipe into the mixing tube; and means for directing gases from the mixing tube to the point of utilization.

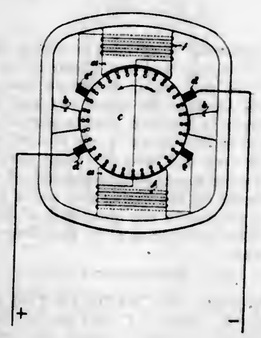
1,377,073. COMBINED STALK-CUTTER AND SOIL-PULVERIZER. AMON HOBSON, Glendale, Ariz. Filed Apr. 9, 1920. Serial No. 372,626. 2 Claims. (Cl. 55—61.)



1. A combined stalk cutter, soil pulverizer and tractor wheel, comprising a wheel having a relatively broad rim,

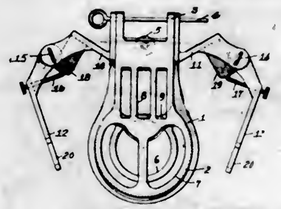
angle bars secured to the tread of the rim by one of their wings and having the other wing projecting outwardly, opposite end portions of the bars projecting beyond the edges of the rim, and blades secured to the outwardly extending wings and projecting beyond the outer edges thereof.

1,377,074. SELF-REGULATING DYNAMO-ELECTRIC MACHINE. WILLIAM HOLT, Birmingham, England, assignor of one-half to Broit Limited, Birmingham, England. Filed Jan. 5, 1920. Serial No. 349,561. 3 Claims. (Cl. 171—223.)



1. A self-regulating dynamo-electric machine comprising main poles and supplementary poles, a main brush and a supplementary brush upon opposite sides of each supplementary pole, and excitation windings on the main poles connected directly across the supplementary brushes, substantially as described.

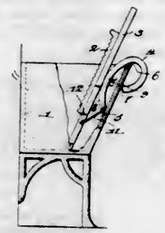
1,377,075. DENTAL ARTICULATOR. JOSEPH HOMER, Boston, Mass. Filed Aug. 26, 1920. Serial No. 406,159. 9 Claims. (Cl. 32—1.)



1. A dental articulator comprising a plurality of jaws pivotally connected and adjustable relative to each other and adapted to support the dental articles being constructed, and a lateral support pivotally connected to one of the jaw portions and adapted to support any desired impression.

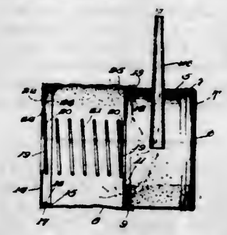
1,377,076. ADJUSTABLE REST FOR WASHBOARDS. JOHN A. HOWARD, Sr., West New Brighton, N. Y., assignor to The Camward Engineering Co. Inc., a Corporation of New York. Filed May 28, 1920. Serial No. 384,978. 1 Claim. (Cl. 68—29.)

In a device of the class described, the combination with a wash-board of a pair of substantially C-shaped supports adapted to hook on the side of a tub and provided with a plurality of apertures through them, screws adapted to be passed through said apertures and to be seated in the frame-work of said wash-board to secure the latter in



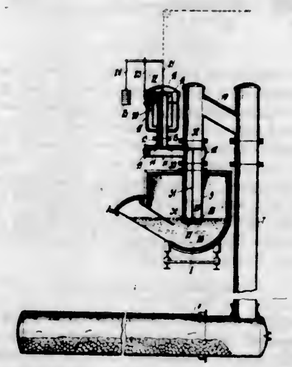
place, eyes on said wash-board, and a hook on each of said supports adapted to be engaged with respective ones of said eyes.

1,377,077. INSECTICIDE-HOLDER. HERBERT G. IRWIN, Floydada, Tex. Filed Dec. 22, 1919. Serial No. 346,765. 4 Claims. (Cl. 43—146.)



1. An insecticide holder including a body having a bottom provided with air inlet openings, a cylindrical bellows attached to said body and provided with a bottom, the bottom of said bellows and the bottom of said body being provided with centrally arranged recessed portions forming a pair of annular shoulders spaced from the sides of the body and bellows, a coil spring confined between the bottom of said bellows and the bottom of said body and surrounding the said annular shoulders, the bottom of said bellows being provided with air inlet means, and a valve for the air inlet means of said bellows.

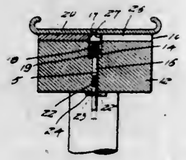
1,377,078. AUTOMATIC PRESSURE-GOVERNOR. RANSAELLER J. JENKS, Lewiston, Idaho. Filed June 8, 1920. Serial No. 387,299. 10 Claims. (Cl. 48—172.)



1. The combination with a gas generator including a plurality of retorts, each having a vertical stand-pipe and a dip tube leading therefrom, and a service main in

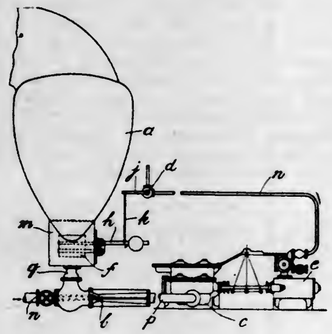
communication with the dip tube, of a valve normally closing each of the dip tubes, and pressure actuated means for unseating the valves upon pressure reaching a predetermined degree, said means being actuated to move the valves to closed position upon the presure falling below such predetermined degree.

1,377,079. DEMOUNTABLE RIM. WILLIAM F. LAING, Cumberland, Md. Filed Feb. 4, 1920. Serial No. 356,200. 1 Claim. (Cl. 301—17.)



In a wheel, a felly having a radial bore enlarged at its outer end, a pin radially movable in the bore and having a head at its outer end and lateral openings at different points in its length, a helical spring confined in the enlarged portion of the bore and normally tending to press the pin outwardly, a key adapted to engage either one of the lateral openings of the pin and the inner side of the felly.

1,377,080. STEAM-CONDENSING AND FEED-WATER SYSTEM FOR STEAMSHIPS. CHARLES RUSSELL LANG, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Filed July 17, 1919. Serial No. 311,588. 1 Claim. (Cl. 103—86.)

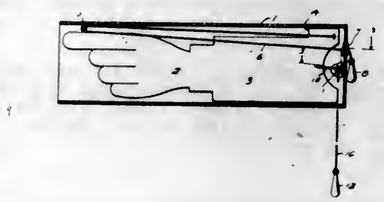


In a steam condensing and feed water system for steamships, the combination with a condenser having a collecting chamber, a main feed pipe, a steam-driven direct-acting pump positioned below the condenser and adapted to discharge the water of condensation from the said condenser into the said main feed pipe, of a steam-jet ejector for discharging the water of condensation from the said condenser to the said pump and placed between the said condenser and the said pump for increasing the pressure above the pressure due to the height of the column leading from the ejector to the condenser.

1,377,081. DOUBLE SALT OF ALUMINUM AND POTASSIUM. NORBERT M. LA PORTE, Chicago, Ill., assignor to Sharp & Dohme, Baltimore, Md., a Corporation of New Jersey. Filed Oct. 21, 1920. Serial No. 418,540. 4 Claims. (Cl. 23—13.)

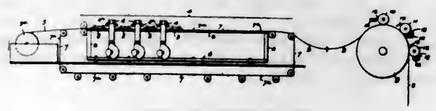
1. A new chemical substance consisting of a double nitrate of aluminum and potassium.

1,377,082. DIRECTION-INDICATOR. WALLACE B. LOUTHAN, Marshalltown, Iowa. Filed Apr. 17, 1920 Serial No. 374,692. 1 Claim. (Cl. 116—50.)



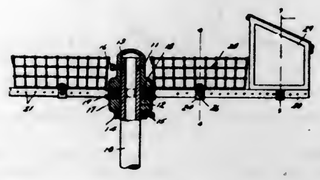
A direction indicator comprising a casing having one end fully open and its other end closed by an end wall having an aperture, said casing having an aperture in one of its side walls adjacent its closed end and in a plane below the aperture in the end wall, a signaling element slidably mounted in the casing, a pin secured in the casing adjacent its open end, and operating cables entering the casing by way of the apertures and one of said cables extending forwardly in the casing and about the pin and rearwardly and secured to the inner end of the signaling element, said other cable secured to the inner end of the signaling element.

1,377,083. METHOD AND MACHINE FOR PRINTING PILE FABRICS. ALFRED F. MCCOLLUM, Bloomsburg, Pa. Filed May 13, 1920. Serial No. 381,027. 17 Claims. (Cl. 101—199.)



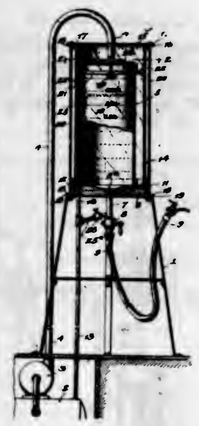
1. The method which consists in applying coloring material to the surface of a pile fabric; and thereafter mechanically operating on the pile of said fabric to cause such coloring material to be transferred from the ends of its pile fibers to the bodies thereof.

1,377,084. MAIL-RECEPTACLE SUPPORT. EVERETT MCDILL, Sparta, Ill. Filed July 8, 1920. Serial No. 394,665. 2 Claims. (Cl. 248—19.)



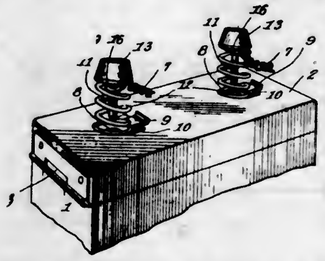
1. A mail receptacle support comprising a vertical tubular standard, a tubular hub having a closed upper end adapted to be telescopically received by the upper end of said standard for rotatably associating the hub therewith and for closing the upper end of the standard, a plurality of supporting arms extending radially from the hub, means for supporting and securing a plurality of mail receptacles thereon for effecting permanent longitudinal adjustments of the same, and means carried by the hub and adapted to co-act with the standard for locking the same against rotation.

1,377,085. APPARATUS FOR VISIBLY VENDING LIQUIDS. WILLIAM DOUGLAS MCKELLAR, Salt Lake City, Utah. Filed Oct. 15, 1917. Serial No. 196,666. 1 Claim. (Cl. 221—100.)



In combination, a transparent open-topped graduated receptacle, an outer transparent casing spaced from and extending above said receptacle, a single base closing the bottom of each of said transparent members, and provided with two discharge orifices, one leading from said receptacle, and the other from the space between said transparent members, a source of liquid supply, means for withdrawing liquid from such source and delivering it to said receptacle, a pipe leading from the orifice in said space to said source, a valved discharge means from the other orifice, and a valved by-pass between the discharge means and the pipe.

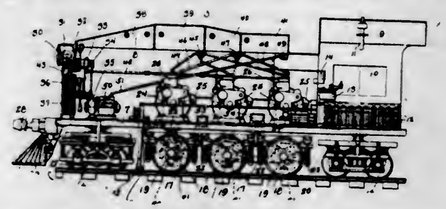
1,377,086. SHOT-FIRING DEVICE. JOHN ANGUS MACDONALD, Blairmore, Alberta, Canada. Filed Sept. 9, 1920. Serial No. 409,244. 4 Claims. (Cl. 200—52.)



1. In an apparatus such as described, a battery box and a cover for the same, batteries disposed within the box and having contact posts extending therefrom, plungers movable through the cover to and from the contact posts, contact members interposed between the contact posts and plungers and yieldingly held out of engagement with the contact posts, and conductors connected with the plungers.
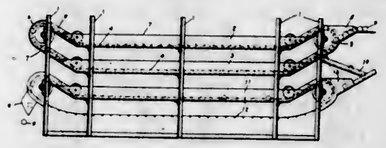
1,377,087. ELECTRIC ENGINE. JACK A. MANNS, Toronto, Ontario, Canada. Filed Oct. 12, 1920. Serial No. 416,527. 3 Claims. (Cl. 105—35.)

1. In an electric locomotive, the combination with a body portion, of a plurality of drive wheels, axles supporting the drive wheels, motors carried by the axles, batteries for supplying current to the motors, generators for charging the batteries, engines for actuating the generators, blowers for cooling the generators, a series of tanks, and means connecting the generators and engines with the



tanks for supplying fuel, lubricant, water and compressed air thereto.

1,377,088. HIGH-TEMPERATURE COOKING SYSTEM. MONROE G. MARTIN, Edinburg, Ind. Filed Nov. 1, 1919. Serial No. 335,207. 2 Claims. (Cl. 99—8.)

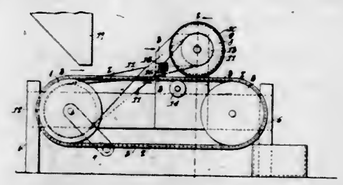


1. In canning, the process which consists in canning the goods and then cooking them in a bath of oil comprising a light lubricating fraction of petroleum oil of a character that will remain liquid at approximately freezing temperature, and having a flashing point above cooking temperature, substantially as set forth.

1,377,089. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Repplier, trustees. Filed Oct. 8, 1919. Serial No. 329,184. 1 Claim. (Cl. 75—1.)

An alloy consisting of the following constituents in approximately the following proportions, namely, copper 45 to 55 per cent., nickel 29 to 35 per cent., lead 1 to 3 per cent., zinc 5 to 9 per cent., iron 4 to 8 per cent. and silicon from a trace to about .30 per cent.

1,377,090. NUT-BLANCHING MACHINE. CHARLES MORRIS, Vancouver, British Columbia, Canada. Filed Sept. 27, 1920. Serial No. 413,029. 6 Claims. (Cl. 146—14.)

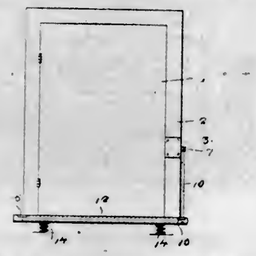


1. A means for removing the inner skin of a nut, which adheres to the kernel, said means comprising an endless grooved band in combination with a grooved roller having a yielding envelop around the same.

1,377,091. DOOR-BOLT. ARTHUR H. MOTT, Winston-Salem, N. C. Filed Dec. 9, 1918. Serial No. 265,976. 1 Claim. (Cl. 292—94.)

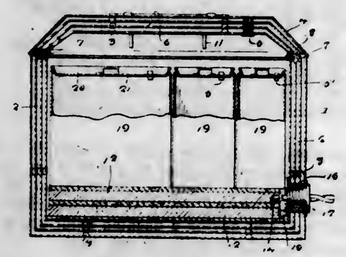
In combination with a swinging door and a spring controlled locking bolt therefor, a hinged platform located adjacent said door, a stationary plate secured to the floor and arranged to engage the platform to limit the upward movement of the same, a spring under the platform for normally holding the same against the plate, a bell crank

lever mounted in the bolt casing and having one arm connected to the bolt and a slot in its other arm and a



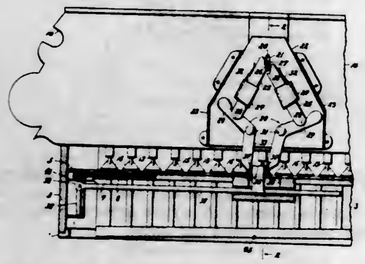
link connected with the platform and its other end engaging said slot.

1,377,092. COOKER OR LUNCH-BOX. TOUSSAINT PHANEUF, Newport News, Va. Filed May 6, 1919. Serial No. 295,073. 1 Claim. (Cl. 219—35.)



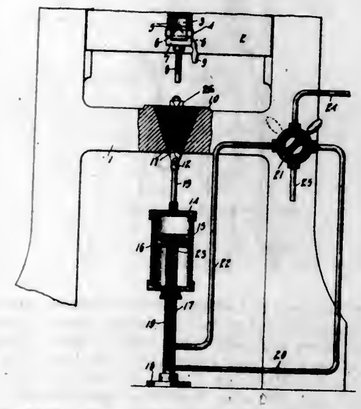
A combined lunch box and cooker comprising a body composed of a plurality of walls spaced apart and a top composed of a plurality of walls spaced apart, means for hinging said top to the body, means for making a tight joint between the top and body, said body having an opening in one wall arranged for the reception of an electric plug, a stopper for closing said opening when the plug is removed, said body being constructed and arranged to receive a heat containing member carrying an electric coil for engagement with the plug, containers in the body, removable covers for the same and safety valves in said covers and in the top of the box.

1,377,093. SHUTTER FOR ACCORDIONS. SALVATORE RABUAZZO, Philadelphia, Pa., assignor to Antonio Lupinacci, Philadelphia, Pa. Filed Oct. 9, 1918. Serial No. 257,479. 2 Claims. (Cl. 84—376.)



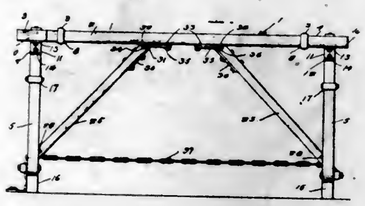
1. In a wind instrument, the combination with a box-like frame for the attachment of bellows, a frame having an apertured face-plate therein, and a key-board, of a series of apertured slides disposed beneath the face-plate, a movable tongue projecting through the face-plate, crank connections from said apertured slides to said tongue, opposed bell-crank levers pivoted beneath the key-board and engaging said tongue, spring influenced slide bars co-operating with said bell-crank levers, and a spring controlled key to move the spring influenced slide bars, whereby the coöperating bell-crank lever is moved on its pivot, and the apertured slides are moved into and out of register with the series of apertures in the apertured face plates.

1,377,094. METAL-EXTRUSION APPARATUS. HOWARD C. ROOT, Indianapolis, Ind., assignor to The Prest-O-Lite Company, Indianapolis, Ind., a Corporation of New York. Filed May 9, 1917. Serial No. 167,594. 9 Claims. (Cl. 78—18.)



1. In a metal extrusion apparatus a tapered seat, a bodily movable die composed of separate sections formed to close together to inclose the die cavity, and means arranged above said die in line with its movement and in position to meet the joint between the said sections as the die is raised, whereby said die is opened for the discharge of the article formed therein, substantially as set forth.

1,377,095. FOLDING SCAFFOLD. JOHN D. RUPP, Westbrook, Minn. Filed Sept. 26, 1919. Serial No. 326,430. 3 Claims. (Cl. 304—6.)

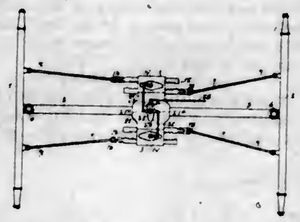


1. A folding scaffold of the class described including a pair of sections having outer solid ends and inwardly extending interfitting parallel spaced fingers, guide brackets carried by the inner ends of the fingers, depending U-shaped brackets carried by the lower surface of the solid portion, legs pivotally mounted in said U-shaped members, transverse bars secured to the lower terminals of the legs, adjustable sections carried by said legs, and diagonally extending braces pivotally carried by said transverse brace bars and arranged to detachably engage the lower surface of the first mentioned sections, as and for the purpose specified.

1,377,096. SHORT-TURNING-GEAR MECHANISM. THEODORE SANDSTROM, Cleveland, Ohio. Filed June 24, 1920. Serial No. 391,396. 8 Claims. (Cl. 280—100.)

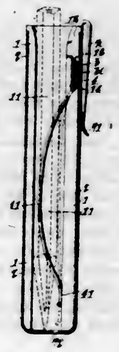
1. In a short turning vehicle gear in which is included front and rear axle structures; a pair of connecting rods

joined at their opposite ends to the opposite axles, racks on the said rods, fixed guides in which said racks move,



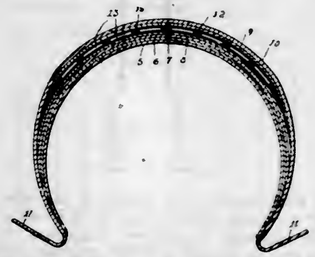
pinions connecting adjacent racks and a lock device for each pinion to hold such pinions and their respectively engaged racks rigid.

1,377,097. PENCIL-CONTAINER. WILLIAM G. SEATON, Knoxville, Tenn. Filed Mar. 3, 1921. Serial No. 449,278. 6 Claims. (Cl. 24—10.)



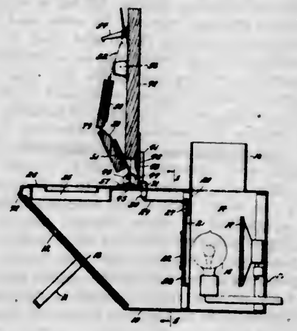
5. A device of the character described, involving a body formed with a plurality of adjacent passages that extend lengthwise of the body, said body near the upper end having a series of squared openings one for each body passage with which they communicate, a resilient member having a series of spaced bowed spring members being spaced apart and adapted for being inserted through the openings in the body and into the several passages in the body, and means for holding the said head portion with its fingers bowed across and extended the full length of their respective passages in the body.

1,377,098. TIRE-BOOT. MANLY C. SEYMOUR, Hesperia, Mich. Filed Dec. 26, 1919. Serial No. 347,471. 1 Claim. (Cl. 152—24.)



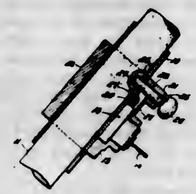
In a tire boot, a body including a plurality of layers of fabric secured together, a rubber spacing member supported between predetermined members of the fabric, metallic strips continuous throughout the length of the boot, positioned within the rubber spacing member, the metallic strips extending longitudinally of the body and being disposed in transverse spaced relation with each other, and each of said strips having its ends extending downwardly to provide anchors for anchoring the strips in the spacing member.

1,377,099. PHOTOGRAPHIC-PRINTING MACHINE. EVERETT E. SHELDON, Philadelphia, Pa. Filed May 21, 1920. Serial No. 383,039. 4 Claims. (Cl. 95—73.)



1. A photographic printing machine comprising a box, an apertured partition in said box and providing a plurality of compartments therein, a lamp in one of said compartments, a negative receiving holder in the other compartment, an operating lever mounted to swing on the box, a presser member mounted to swing on the box and suspended from the operating lever to be operated therewith, a translucent closure normally closing the aperture in the said partition and a means between said lever and said closure for operating the latter to uncover the aperture upon swinging said lever to move said presser member into active position said, means including an angularly movable device, a roller thereon, and an element carried by the lever for imparting partial rotation to the roller.

1,377,100. AUTOMOBILE-LOCK. GEORGE F. SMITH, Germantown, Pa. Filed Oct. 18, 1919. Serial No. 331,563. 2 Claims. (Cl. 70—00.)



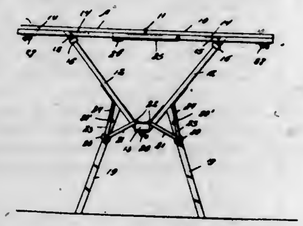
1. In a locking device of the character described the combination with a recessed rotatable shaft and its surrounding casing having a pasage therein adapted to be brought into register with the recess when it is desired to relatively lock said parts, of a composite sleeve including opposed interlocking sections adapted for clamping engagement on the casing, a housing on one part of the composite sleeve, a lock in said housing and having the bolt thereof normally projected, and a slidable element disposed at right angles to the lock bolt and having a pendant flange provided with lateral ears for preventing its rotation, said slidable element being adapted for operation over the lock bolt from unlocked position into locking engagement relative to the rotatable shaft and its surrounding casing.

1,377,101. SHAFT-COUPLING. JOHN ERNEST SPARLING, Boston, Mass. Filed Nov. 28, 1919. Serial No. 341,061. 2 Claims. (Cl. 287—111.)



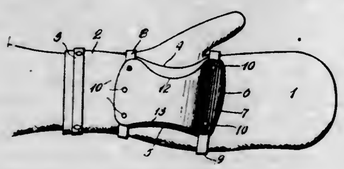
1. A coupling for shaft members comprising a compressible slotted coupling sleeve, having a zone of maximum thickness midway between its ends, and externally tapered portions extending from said zone to its ends, and two duplicate independent sleeve-contracting collars, having tapered bores conforming to the said externally tapered portions, and elongated to extend from said zone substantially to the ends of said tapered portions, whereby, when said collars are moved simultaneously in opposite directions toward said zone, they exert direct uniform radial compressive pressure on said tapered portions, from the outer ends of the latter to said zone, thereby maintaining the entire bore of the coupling sleeve parallel with the peripheries of shaft sections inserted therein, the said collars being provided at their inner ends with flanges formed to be engaged by vise jaws, to impart sleeve-compressing movements to the collars, and separated by a relatively narrow space formed to receive a wedge adapted to displace the collars and permit the expansion of the sleeve.

1,377,102. TABLE. RAY E. STAMBAUGH, Sheridan, Wyo. Filed July 2, 1920. Serial No. 393,539. 4 Claims. (Cl. 45—116.)



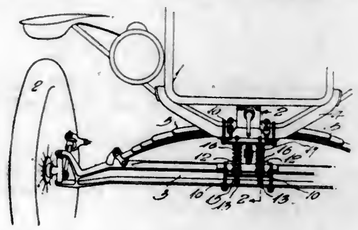
1. A table section including hingedly connected top sections, divergently disposed supporting members arranged beneath said sections, a connecting bar coextensive in length with said top, and hingedly connected with the lower corresponding extremities of said diverging members, means for associating the upper end of said members with said sections for sliding movement with relation thereto, a keeper carried by one of said sections, a fastening bar pivotally connected with the other section to engage the keeper when bridging the joint between said sections, and supporting legs associated with said members and susceptible of being folded in a substantially parallel position therewith.

1,377,103. HAND AND WRIST PROTECTOR. ANTHON SUHR, Gibbon, Nebr. Filed Aug. 4, 1920. Serial No. 401,222. 1 Claim. (Cl. 2—104.)



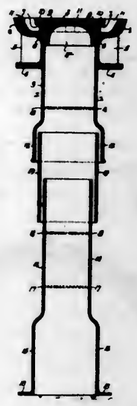
A protector of the class described comprising a flexible pad adapted to be worn over the palm and the wrist of the user, a series of transverse straps secured to said pad and adapted to extend around the user's hand and wrist to secure the pad in position, and a metal plate secured to said pad and conforming to the contour of the palm and adjacent wrist portion of the user's hand adapted to form a guard against excessive wear by the butt portion of an ear of corn.

1,377,104. SHOCK-ABSORBER FOR VEHICLES. HERMAN E. THOMPSON, Morattico, Va. Filed July 6, 1920. Serial No. 394,134. 2 Claims. (Cl. 267—28.)



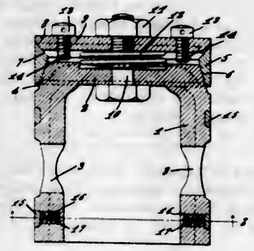
1. A shock absorbing device for disposition between an axle and a spring which are movable toward and from each other and also movable lengthwise with respect to each other comprising upper and lower apertured attaching plates, the apertures in the lower plate being comparatively large, and this plate being intended to be secured to the axle, while the remaining plate is intended to be secured to the spring, a plurality of guide pins having their lower ends reduced in diameter to form shoulders bearing on the upper face of the lower plate, the reduced portions of these pins extending through the comparatively large apertures in this plate, heads on the lower ends of said pins, the opposite ends of these pins extending through the apertures in the upper plate, coiled springs surrounding the reduced ends of the pins between said heads and lower face of the adjacent plate, and other and larger coiled springs surrounding the pins between the plates.

1,377,105. VALVE-BOX. LINCOLN VAN GILDER, Ventnor, N. J. Filed July 3, 1917. Serial No. 178,458. 4 Claims. (Cl. 137—13.)



1. The combination in a device of the character described of a tubular body having on one end a plurality of annular shoulders of different diameters; with a lid having an edge of stepped section including a plurality of annular bearing faces placed to engage the shoulders of the body respectively, the top of said body having at least one radial recess extending to a depth sufficient to give access to one of the bearing faces of the edge of the lid.

1,377,106. ENGINE-PISTON. JOHN A. WELCH, Kansas City, Mo. Filed July 7, 1920. Serial No. 394,463. 2 Claims. (Cl. 74—108.)



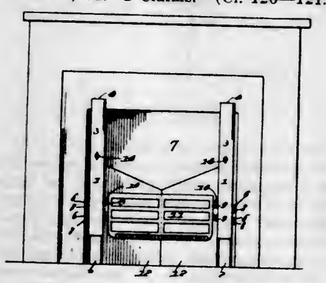
1. The combination with a piston having a beveled end portion, and a central recess in said end portion, of a cap having a beveled periphery, a spring seated in the recess and bearing agsinst the cap, means connecting the piston and the cap for holding the cap centered, said cap being shiftable against the action of the spring and relative to the piston, the beveled portions of the cap and piston cooperating to form an annular tapered seat, an expansible piston ring engaging said seat, and adjustable means carried by the cap for engagement with the piston to limit the movement of the cap in one direction relative to the piston.

1,377,107. CUSHION FOR HATS. MARY E. WESTROPE, David City, Nebr. Filed Oct. 26, 1917. Serial No. 198,650. 1 Claim. (Cl. 2—32.)



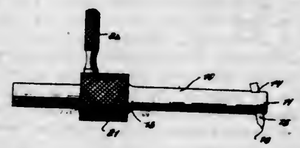
As an article of manufacture, a cushion for a hat formed from a single length of flexible material having its free longitudinal edges folded inwardly upon the main portion thereof and toward one another, providing a double thickness, said double thickness being bent transversely upon itself from one edge inwardly to provide a relatively thick filler, the double thickness being bent transversely upon itself from the opposite edge inwardly over the filler to completely inclose the latter, and the closing edges of the cushion being compressed toward one another to provide an attaching edge for the cushion and prevent accidental opening of the cushion and displacement of the filler.

1,377,108. APPLIANCE FOR FIREPLACES. PEYTON W. WILLIAMS, Montgomery, Ala. Filed June 7, 1920. Serial No. 387,051. 2 Claims. (Cl. 126—121.)



1. The combination with an open fire place, of a removable heating appliance consisting of complemental hollow members each of which is formed with a hollow body portion disposed against the side wall of the fire place, the said body portions being formed with laterally projecting hollow elements disposed against the back wall of the fire place and having contracted discharge mouths projecting forwardly from the fire place and terminating above the top thereof, the said body elements having substantially floor level intake openings for the purpose specified.

1,377,109. INSIDE-CUTTING TOOL. JAMES R. AULENBACK, Bridgewater, Nova Scotia, Canada. Filed Dec. 15, 1919. Serial No. 344,988. 1 Claim. (Cl. 29—99.)

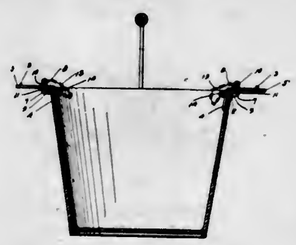


A device of the character described comprising a shank having a bore and provided at one end with a transverse opening, said shank being provided intermediate its ends with an enlarged portion externally threaded and also being provided rearwardly of said enlarged portion with a transverse opening, a cutter bar disposed within said first named opening and having a cutting point extending laterally beyond the shank, a rod disposed within said bore and having one end abutting against said cutter member and having its other end terminating at said second named opening, a transverse pin disposed through said second named opening, and a sleeve threaded upon said enlarged portion and having a flange abuttingly engaging said pin for forcing said rod into clamping engagement with said cutter bar.

1,377,110. PROCESS FOR WATERPROOFING AND STRENGTHENING THREADS AND FABRICS. LOUIS GABRIEL RAYMOND AUZENAT, Paris, France, assignor to la Loie Artificielle de La Voulte, Paris, France. Filed Mar. 25, 1920. Serial No. 368,775. 5 Claims. (Cl. 91—68.)

1. A process of waterproofing and strengthening threads and fabrics, the tensile strength of which decreases in the moistened state, consisting in subjecting the threads or fabrics to the action of at least two substances in a gaseous state, said substances reacting upon each other while in such state to synthetically form compounds impenetrable to water.

1,377,111. MILK-PAIL ATTACHMENT. HENRY BLAIR, San Ardo, Calif. Filed Apr. 30, 1920. Serial No. 377,884. 3 Claims. (Cl. 31—14.)



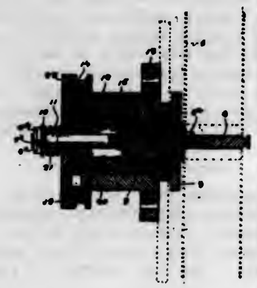
1. A milk pail attachment comprising a pair of brackets each including vertical and horizontal portions, said

vertical portion engaging the pail on its inner face and having the horizontal portion overlying the bead of the pail and projecting laterally thereof, said horizontal portions having spaced slots, a substantially U-shaped fastening member extending through said slots and having its ends bent at right angles to underlie the bead, and means extending through the slots for holding the ends of said fastening member in engagement with the bead.

2. A milk pail attachment comprising a pair of brackets each including vertical and horizontal portions, said horizontal portion having spaced slots, a substantially U-shaped fastening member extending through said slots and having its ends bent at right angles to underlie the bead of a pail, and a substantially U-shaped wedge member extending through said slots.

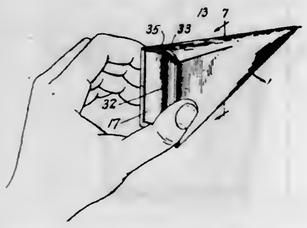
3. A milk pail attachment comprising a pair of brackets secured to the opposite sides of the pail and each including vertical and horizontal portions, said horizontal portion having spaced slots, a substantially U-shaped member extending through said slots and having its ends bent at right angles to underlie the bead of the pail, a substantially U-shaped wedge member extending through said slots and having its bight portion bent to form a loop, a flexible element connected to said loop, and a staple secured to the vertical portion and having the free end of the flexible element secured thereto.

1,377,112. TAKE-UP MECHANISM FOR KINETOSCOPES. GOVE S. BOYLAN, Washington, D. C. Filed Oct. 10, 1919. Serial No. 329,818. 7 Claims. (Cl. 242—55.)



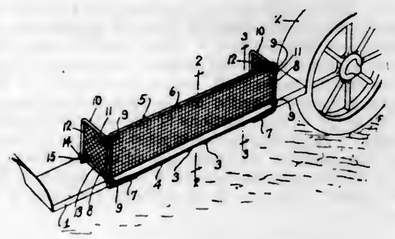
1. In a take-up mechanism for kinetoscopes, the combination of a support, a reel, a driven friction element connected with the reel to transmit rotary motion thereto, a driving friction element surrounding the driven element and frictionally engaging the same and mounted in the support, whereby tendency of the reel to move downwardly increases the friction between the driving and driven element, and a supplemental driven friction element connected with the reel and arranged for coöperation with the first-named driven friction element.

1,377,113. POWDER-CONTAINER. JOHN D. BOYLE, New Rochelle, N. Y. Filed Dec. 13, 1920. Serial No. 430,139. 1 Claim. (Cl. 43—146.)



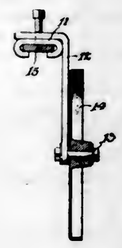
A container for pulverulent material comprising a pyramidal box having a rectangular base and substantially triangular side and end walls, said side and end walls converging to an apex, a discharge outlet in said apex, said base being weakened from end wall to end wall to provide an inwardly breaking joint, each of said end walls adjacent their connection with the base being transversely weakened to provide a movable portion, said movable portion adapted as a whole to fold with respect to the weakened line of the base and thereby flex the remaining portion of the end walls beyond their normal plane when radial pressure is applied to the side walls and said base is inwardly bulged.

1,377,114. SELF-CLOSING BUNDLE-RECEPTACLE. CHARLES E. CARDWELL, Houston, Tex., assignor of one-third to Walter Baird, Houston, Tex. Filed Oct. 11, 1920. Serial No. 415,973. 5 Claims. (Cl. 224—29.)



2. In combination with a support, of a self closing receptacle therefor designed when not in use to automatically move beneath the support, said receptacle including a spring influenced outer member, and spring influenced end members designed to be normally folded against the outer member, and means on the support for engaging with the end members, when the device is brought to operative position for holding the end members and the first mentioned member in upright vertical positions with respect to the support.

1,377,115. ROLLER-FENDER. WILLIAM FRANKLIN CLAYTON, Cullman, Ala. Filed Sept. 22, 1919. Serial No. 325,521. 1 Claim. (Cl. 97—18.)



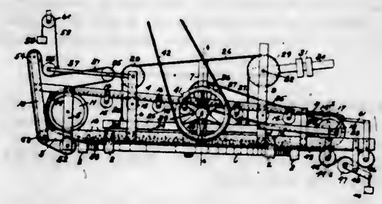
In an interchangeable attachment for earth working implements, a fender member, a fender supporting means comprising a depending portion to which the fender member is attached, and a lateral portion at the upper end of said depending portion; and a binding clamp carried by said lateral portion, said binding clamp being constructed and designed to embrace and be frictionally clamped, interchangeably, to a flat metallic bar of a standard earth scratcher, or to a bar of like dimensions attached to a plow or other earth working implement.

1,377,116. CLASP. JOSEPH F. DELCOURT, New Bedford, Mass. Filed Aug. 20, 1920. Serial No. 404,893. 10 Claims. (Cl. 24—250.)



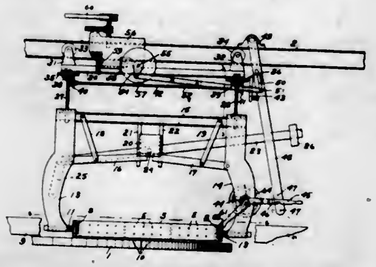
7. A clasp comprising a stationary jaw, a movable jaw having a centrally arranged rib with a circular opening therein, an eccentric disk arranged in said opening, a pivotal support for the eccentric connected to said fixed jaw yieldably, and a lever for actuating the eccentric.

1,377,117. MACHINE FOR GRINDING ARTICLES WITH PLANE SURFACES. MALVERN A. EATON, Littleton, N. H., assignor to Pike Manufacturing Company, Pike, N. H., a Corporation of New Hampshire. Filed Mar. 13, 1920. Serial No. 365,299. 8 Claims. (Cl. 51—110.)



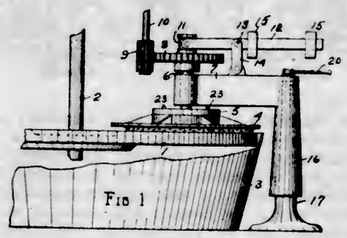
1. In a machine for shaping articles by grinding, the combination with a grinding disk rotating in a horizontal plane, of a belt having a portion thereof extending across the face of said grinding disk above and parallel therewith adapted to receive between it and the face of said grinding disk the articles to be ground, and a series of independent weights arranged to press downward the portion of the belt extending across the face of the grinding disk to hold the articles to be ground against the said face, and means for moving the belt.

1,377,118. MACHINE FOR SHAPING ARTICLES BY GRINDING. MALVERN A. EATON, Littleton, N. H., assignor to Pike Manufacturing Company, Pike, N. H., a Corporation of New Hampshire. Filed Mar. 13, 1920. Serial No. 365,612. 7 Claims. (Cl. 51—122.)



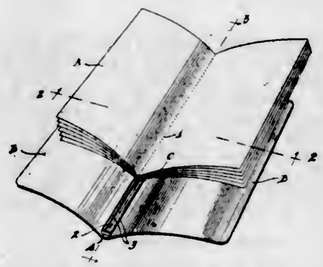
1. In a machine for shaping articles by grinding, the combination of a grinding disk rotating in a horizontal plane, a fixed track above and parallel with the face of the grinding disk, a frame suspended from and movable on said fixed track, means for reciprocating the frame, a work holder carried by the frame adapted to hold the articles to be ground in contact with the face of the grinding disk, and means carried by the frame for counterbalancing the weight of the work holder.

1,377,119. MACHINE FOR SHAPING SHARPENING-STONES. MALVERN A. EATON, Littleton, N. H., assignor to Pike Manufacturing Company, Pike, N. H., a Corporation of New Hampshire. Filed Mar. 15, 1920. Serial No. 365,868. 1 Claim. (Cl. 51—131.)



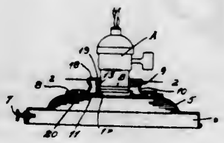
In a machine for shaping articles by grinding, the combination with a grinding disk rotating on a vertical axis, of a conical standard outside the periphery of the grinding disk, a conical sleeve mounted to rotate on said standard, an arm carried by the sleeve adapted to swing over the grinding disk, a screw extending into the head of the standard adapted to raise the arm, a shaft journaled in the arm, and a work holder carried by the shaft.

1,377,120. REMOVABLE PASS-BOOK. MARCUS P. EXLINE, Dallas, Tex. Filed Aug. 23, 1919. Serial No. 319,459. 2 Claims. (Cl. 281—19.)



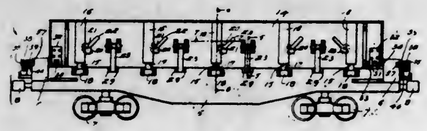
1. A book comprising a cover, a grooved member secured within and at the bend of the cover, a plurality of superposed sheets secured by a single medial line of stitching to a flat tongue member, said tongue member adapted to slide in the grooved member of the cover.

1,377,121. COMBINATION-GLOBE. JOSEPH FALCONE, New York, N. Y. Filed June 9, 1919. Serial No. 302,674. 2 Claims. (Cl. 240—115.)



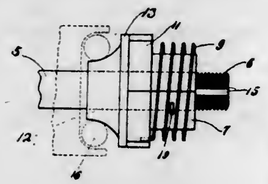
1. A globe holding member having a central opening to receive an incandescent lamp socket, in combination with a plate carrying means for its connection to the socket, and hollow rivets connecting the member and the plate and open at their ends to ventilate the interior of the member.

1,377,122. FREIGHT-CAR. NICHOLAS FENDER, Chicago, Ill. Filed June 29, 1920. Serial No. 392,688. 9 Claims. (Cl. 105—363.)



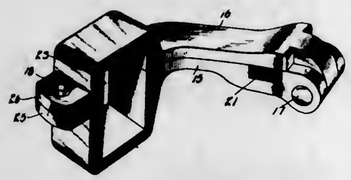
1. In a freight car structure, a body including a bottom, end boards adapted to fold over said bottom and form a part thereof when in folded position, side boards adapted to swing over to position upon the folded end boards, operating shafts connected with said side boards and movable transversely of the body to swing the side boards to their horizontal and vertical positions, and hinge straps connected with said side boards and with the car body.

1,377,123. COMPENSATING BEARING. SAMUEL GNAGY, Strasburg, Ohio. Filed June 4, 1920. Serial No. 386,457. 5 Claims. (Cl. 64—36.)



4. In a compensating bearing, a supporting shaft having a threaded portion, and having a groove formed in one surface thereof, a nut operating on the threaded portion, a shaft, an adjusting nut carried by the first mentioned nut, a washer contacting with the adjusting nut, said washer having a tongue positioned in the groove of the shaft, to prevent rotary movement of the washer, a bearing member on the shaft and contacting with the washer, and spring means carried by the nuts to cause the bearing member to move longitudinally of its shaft.

1,377,124. LOCK FOR AUTOMOBILES. WALTER H. GODBEY, Jr., Memphis, Tenn., assignor of one-third to George H. Hyatt, Memphis, Tenn., and one-third to Andrew D. Gwynne, Dallas, Tex. Filed Aug. 20, 1918. Serial No. 250,693. 1 Claim. (Cl. 70—90.)



The combination with an axle and steering arm pivoted and standing normally substantially perpendicular thereto, of a lock formed of two hinged jaw members, the upper member having a recess formed on its free end and a flange extending therefrom, the lower member having a recess registering with that of the upper member but of greater depth, the two recesses forming a housing for the axle, said lower member provided with a flange extending therefrom and in complement with the upper said flange, means for locking the flanges when brought together, the lower member formed with a recess in its hinged end adapted to receive the steering arm when swung at an angle less than 90° with the axle, the recess being closed by the under face of the upper hinged member, the upper and lower members having their inner faces in contact except at the recessed portions, said members being hinged at a point below their plane of contact and having their rearward part bent to throw the rear recess in alinement with the steering arm.

1,377,125. WHOLE-RICE FOOD AND PROCESS OF PRODUCING THE SAME. ANANT M. GURJAR, St. Paul, Minn. Filed Dec. 9, 1918. Serial No. 266,010. 4 Claims. (Cl. 99—11.)

1. The process of producing a stable ready-to-eat rice food from unhulled field rice or paddy, which process consists in roasting the paddy when in a moist condition, thereby cooking the kernels under internally generated steam pressure retained by the hulls, and, at the same time, calcining the hulls by the dry or roasting heat applied to the exterior thereof, and then in compressing the roasted paddy, while hot, thereby removing the hulls and flaking the cooked kernels of rice.

3. A stable cooked and ready-to-eat non-dextrinized rice food, which, in addition to the starch, is characterized by the presence of substantially all of the germ and substantially all of the bran of the original rice kernels.

1,377,126. BATTERY-TERMINAL. ALBERT H. HAEFELE, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Jan. 23, 1914. Serial No. 813,928. 7 Claims. (Cl. 173—259.)



2. In an electric battery, an electrode terminal having a top and a depending skirt and three adjacent spaced members cut from the top so as to be integral therewith at one end each, the two outside members being integrally connected at their free ends, and the middle members having a hook at one end to retain a conductor in conjunction with the outside members.

1,377,127. ELECTRODE-TERMINAL. ALBERT H. HAEFELE, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Original application filed Jan. 23, 1914, Serial No. 813,928. Divided and this application filed Mar. 31, 1915. Serial No. 18,273. 4 Claims. (Cl. 204—52.)



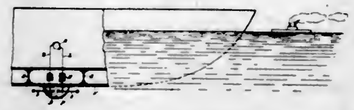
1. A battery terminal consisting of a cap having a top and a depending skirt portion, a resilient tongue member struck up from the top and having a wire engaging depression, and two hook-shaped members struck from said top one on each side of said tongue, said hook-shaped members each being integral with the top at one side only and adapted to coöperate with the depression in said resilient tongue to engage a conductor when the tongue is depressed.

1,377,128. ELECTRODE-TERMINAL. ALBERT H. HAEFELE, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Original application filed Jan. 23, 1914, Serial No. 813,928. Divided and this application filed Mar. 31, 1915. Serial No. 18,274. 6 Claims. (Cl. 204—52.)



1. A battery terminal consisting of a cap having a top and a depending skirt portion, a resilient tongue member struck up from the top and having a V-shaped wire engaging depression, and a V-shaped wire engaging member struck up from the top of the cap on each side of the tongue member, said second mentioned V-shaped members being integral with the cap at both of their ends and adapted to coöperate with the depression to engage a conductor when the tongue is depressed.

1,377,129. UNDERWATER WAVE TELEGRAPHY. WALTER HAHNEMANN, Kiel, Germany, assignor to The Firm Signal Gesellschaft M. B. H., Kiel, Germany. Filed Jan. 2, 1915. Serial No. 306. 4 Claims. (Cl. 250—3.)



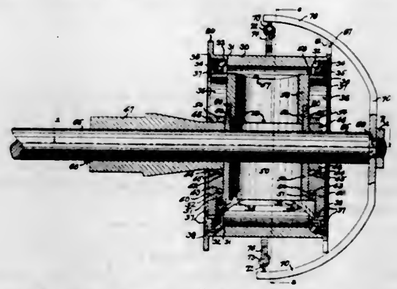
1. A system of submarine radiotelegraphy having high frequency transmitting and receiving elements disposed beneath the surface of the water, and utilizing an alternating current of such frequency as to cause the capacity reactance of the transmitting medium at its highest to be equal to the ohmic resistance of said medium.

1,377,130. IMITATION STONE AND PROCESS FOR MANUFACTURING. SHOZABURO HASHIMOTO, Seattle, Wash. Filed Aug. 19, 1920. Serial No. 404,492. 3 Claims. (Cl. 63—32.)



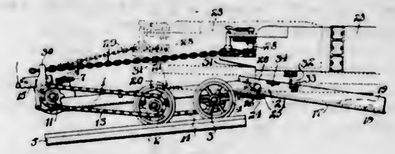
1. An imitation gem consisting of a plurality of parts of transparent material united together, there being a coating of translucent coloring material between the juxtaposed faces of the said parts.

1,377,131. POWER TRANSMISSION FOR WHEELS. HARLEIGH R. HOLMES, Denver, Colo. Filed Sept. 22, 1919. Serial No. 325,476. 19 Claims. (Cl. 180—48.)



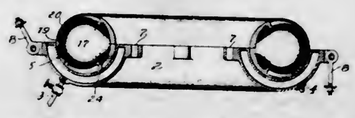
1. An axle, a hub rotatable about one end of said axle, a vertically disposed pivotal connection between the axle end and the hub and passing through said axle end, a drive shaft extending through the axle and hub to the front of the hub, and a connection between the forward end of the shaft and the outer sides of the hub.

1,377,132. MINING-MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 13, 1916, Serial No. 103,507. Renewed July 17, 1920. Serial No. 397,146. 13 Claims. (Cl. 105—161.)



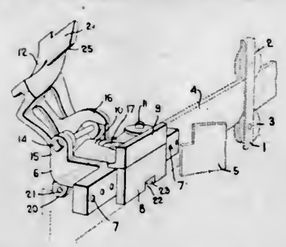
1. In a mining machine, a truck, a laterally fixed guide thereon, a pan reciprocable on said truck along said guide, and means for pivotally connecting said pan and truck which permit the pan to swing laterally when the front end of the former has passed off of said truck.

1,377,133. APPARATUS FOR VULCANIZING VEHICLE-TIRES. LEO JACOBSON, Chicago, Ill., assignor to George B. Cooper, Cleveland, Ohio. Filed Mar. 15, 1918. Serial No. 222,534. 4 Claims. (Cl. 18—18.)



1. A tire vulcanizing device comprising a heating unit consisting of upper and lower continuous rings substantially semi-circular in cross section and in contact with each other at their inner and outer edges, said rings being of hollow form to receive a heating agent, the abutting sides of said rings being channeled between their inner and outer edges to mutually co-act in forming a mold cavity, and a plurality of continuous tire molds each formed of upper and lower rings contacting with each other at their inner peripheries, the external sides of said rings being of uniform size to allow any of the several molds to be snugly received in said tire cavity while the internal sizes of said rings vary for engagement with tires of different sizes, each of said mold rings being provided with spaced inner and outer walls.

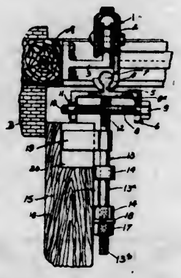
1,377,134. OVERHEAD TRAMWAY-SWITCH. CHARLES T. JUDD, Somerville, Mass., assignor to J. Duncan Company, Everett, Mass., a Corporation of Massachusetts. Filed Jan. 13, 1921. Serial No. 436,960. 6 Claims. (Cl. 104—101.)



1. A switch for an overhead tramway rail system traversed by a traveler having flanged guides riding on both the top and bottom edges of the rails comprising a switch bracket adapted to be secured at the side of the main rail opposite the end of a branch rail the upper portion of a section of the main rail opposite the end of the branch

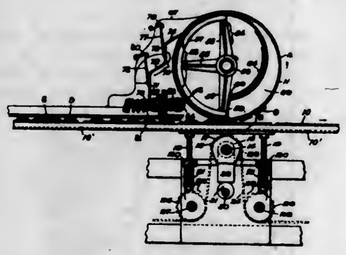
rail being mounted on the switch bracket and movable into and out of connecting position in the main rail, the lower portion of said section having a recess to permit the passage of the flange of the bottom guide when passing between the main and branch rail, and a second rail section mounted on the switch bracket and movable out of and into position to disconnect and connect the top edges of the main and branch rails and provided with a depending filler section acting when in connecting position to continue the bottom edge of the branch section up to the face of the main rail adjacent the recess and thus permit and control the passage of the flanges of the bottom guide between the main and branch rails.

1,377,135. DOOR-HANGER. LEO KULES, Mount Washington, Pa. Filed Mar. 13, 1920. Serial No. 365,528. 3 Claims. (Cl. 20—19.)



1. In a door hanger, a truck including a depending plate, a bracket depending from said plate and swiveled thereto so as to turn about a vertical axis, a member adapted to be attached to a door, and an adjusting screw freely rotatable in the bracket and held against endwise movement therethrough, said screw being threaded through the upper end of said member.

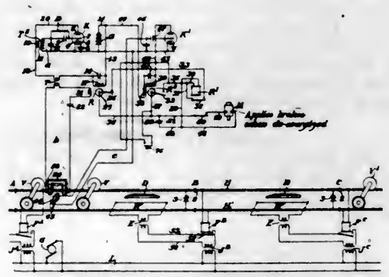
1,377,136. PNEUMATIC MECHANISM FOR CONVEYING AND STACKING FOOD PRODUCTS. EDWARD E. LAWRENCE, Jamaica, and KENNETH D. LOOSE, New York, N. Y., assignors to Loose Wiles Biscuit Company, New York, N. Y., a Corporation of New York. Filed Oct. 1, 1920. Serial No. 414,034. 6 Claims. (Cl. 107—45.)



1. Mechanism for conveying and stacking disk-like articles comprising a movable member, means to create suction at the surface thereof, means to stack the articles edgewise in a series of rows, and means coöperating with the surface of said member whereby the articles are caused to adhere through suction to said surface substantially evenly throughout the active area of said member, so that the articles are conveyed with substantial uniformity by the movable member to all of said rows.

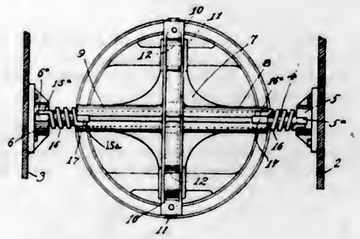
4. Mechanism for conveying and stacking disk-like articles comprising a rotatable suction drum having a perforated surface, means to create suction at said surface, means to stack the articles edgewise in a series of substantially parallel rows, and a baffle located within said member and having means to effect the substantial evenness of adhesion of the articles to the suction surface throughout the active area of said drum, so that the articles are conveyed with substantial uniformity to all of said rows.

1,377,137. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 25, 1918. Serial No. 263,969. 16 Claims. (Cl. 246—63.)



8. Railway traffic controlling apparatus comprising a vehicle, a circuit having fixed characteristics and a source of alternating current whose frequency is controlled thereby, a second circuit connected to said source, normally inactive vehicle governing means controlled by said second circuit; trackway means for varying the inductance of said second circuit to render said vehicle governing means active, and means for maintaining said vehicle governing means inactive independently of said second circuit.

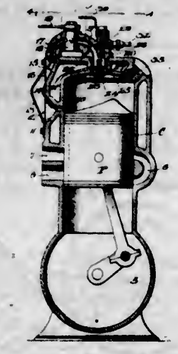
1,377,138. FIFTH-WHEEL DEVICE. JAMES MORRISON, Cincinnati, Ohio, assignor to The Trailmobile Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 20, 1919. Serial No. 346,331. 4 Claims. (Cl. 280—33.1.)



1. A fifth wheel device comprising in combination with a vehicle frame, a plate, means on the vehicle frame for supporting said plate to permit a sliding and rocking relation between said plate and vehicle, and springs intermediate the plate and the frame, said plate and frame being adapted to engage said springs both for compression and torsion.

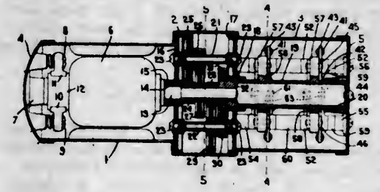
1,377,139. INTERNAL-COMBUSTION ENGINE. JOHN FRANCIS MURPHY, Louisville, Ky. Filed Apr. 9, 1919. Serial No. 288,763. 11 Claims. (Cl. 123—33.)

1. An internal combustion engine including a plurality of cylinders, means for supplying raw fuel directly to each cylinder, and means actuated by the pressure of gases performing the working stroke of one cylinder to release



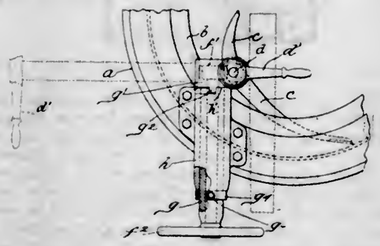
the fuel charge supplied by said means into the compressed atmosphere of the next cylinder to fire.

1,377,140. MASSAGING DEVICE. FREDERICK K. NORTH, Chicago, Ill. Filed Nov. 11, 1919. Serial No. 337,355. 13 Claims. (Cl. 128—59.)



1. A massaging device comprising a pair of massaging instrumentalities and actuating means having resiliently yieldable connection with said instrumentalities operating through said resiliently yieldable connection to cause said instrumentalities alternately to approach toward and recede from each other.

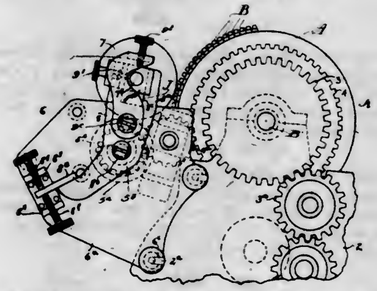
1,377,141. DISCHARGER FOR CENTRIFUGAL BASKETS. EUGENE ROBERTS and ANGUS H. GIBSON, Salt Lake City, Utah, assignors to Sugar Centrifugal Discharger Co., Salt Lake City, Utah, a Corporation of Utah. Filed Dec. 17, 1917. Serial No. 207,432. 10 Claims. (Cl. 210—73.)



1. A discharger for centrifugal baskets embracing in combination a fixed supporting bracket, a horizontal sleeve mounted therein to oscillate about its horizontal axis and having a vertically bored member for supporting the vertical plow-supporting spindle to permit both axial and oscillatory movement of said plow-supporting spindle when in operative position for use, a stop member cooperating with said horizontal sleeve to maintain the spindle in working position against the thrust of the material being discharged from the revolving basket, said sleeve being revoluble in an opposite direction to permit the quick removal of the plow from the basket, substantially as described.

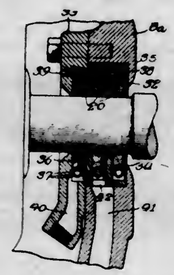
8. A discharger for centrifugal baskets embracing in its construction a fixed bracket, a horizontal sleeve rotatably mounted in said bracket, a plow actuating shaft mounted inside said sleeve to raise and lower the plow, a vertical oscillatory spindle, a plow secured thereto and intermediate connecting means for operatively connecting the plow actuating shaft and the plow supporting spindle, substantially as described.

1,377,142. INKING MECHANISM. ARTHUR D. SABORSKY, Lakewood, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich., a Corporation of Maine. Filed Dec. 8, 1916. Serial No. 135,726. 7 Claims. (Cl. 101—352.)



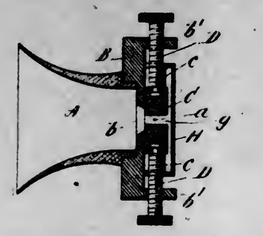
1. In apparatus of the class described, the combination with a frame and a printing drum, of an ink supplying roller mounted on said frame, a pair of members pivotally mounted intermediate their ends on an axis coincident with the axis of said roller, a roller adapted to apply ink to the printing devices on said drum supported by corresponding ends of said members, and devices engaging with the other ends of said members to hold the axis of said applying roller in fixed relation to said drum, said devices being adjustable to adjust said roller relative to said drum.

1,377,143. PACKING FOR ROTARY SHAFTS. HENRY H. WAIT, Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 28, 1916. Serial No. 117,166. 6 Claims. (Cl. 286—7.)



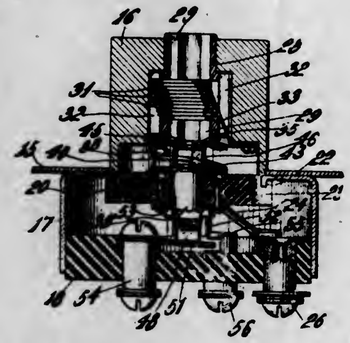
1. In a device of the class described, the combination of a casing having oppositely disposed openings therein, a rotary shaft extending through said openings, packing chambers formed in the casing about said openings and shaft, inwardly projecting flanges at the inner ends of said packing chambers, diaphragms fitting against the respective flanges and closely surrounding the shaft, caps closing the outer ends of the respective packing chambers, each having an opening through which the shaft passes and a duct extending from said opening and opening through said cap, a pair of packing rings in the chamber bearing against said diaphragm and cap respectively, drain passages formed in the casing connecting with the passages in the cap and other and independent drain passages connecting with the packing chamber.

1,377,144. TRANSMITTER. FRANCIS C. BRECKENRIDGE, Providence, R. I., assignor to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 6, 1919. Serial No. 343,010. 5 Claims. (Cl. 179—101.)



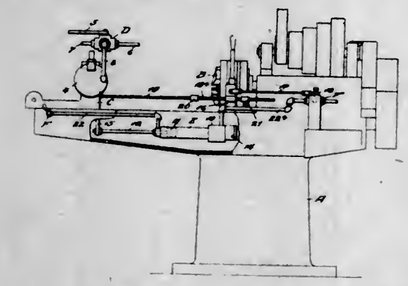
1. A current-varying device comprising an extremely thin conductor, an inclosure therefor having a slotted opening, said conductor being mounted in said opening, and means whereby variations of air pressure may be directed thereto.

1,377,145. LOCK-SWITCH. STEPHEN F. BRIGGS and EDWARD N. JACOBI, Milwaukee, Wis., assignors to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 17, 1916. Serial No. 72,392. 15 Claims. (Cl. 200—44.)



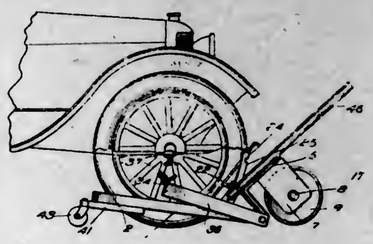
2. A lock switch, comprising a switch handle, a lock for locking the switch handle in its different positions, a key for operating the lock and removable therefrom in either the locking or unlocking position of the lock and a switch operated by the lock.

1,377,146. BOLT-THREADING MACHINE. SAMUEL B. CLAY, St. Louis, Mo., assignor of one-half to Edward R. Fish, Webster Groves, Mo. Filed Oct. 27, 1919. Serial No. 333,593. 12 Claims. (Cl. 10—89.)



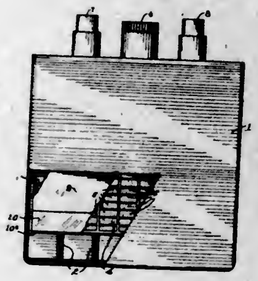
1. A threading machine, comprising a threading mechanism, a carriage for holding the work, means for causing the work to be engaged by the threading mechanism, and means adapted to be operated by a fluid medium for automatically separating the work from the threading mechanism at the termination of the threading operation.

1,377,147. JACK. GEORGE F. DILLON, Kansas City, Mo. Filed July 15, 1918. Serial No. 244,931. 5 Claims. (Cl. 280—44.)



2. A jack comprising a body portion of channel iron, a pivoted member on the body portion, a wedge between the body portion and the pivoted member, an axle engaging jaw carried by the pivoted member, a wheel supported bracket pivoted to the front end of the body portion, a pivoted brace lever for holding the body portion and bracket rigidly together and a pivoted lever for raising the front end of the body portion.

1,377,148. STORAGE BATTERY. SAMUEL R. GUY, Los Angeles, Calif., assignor to Hobbs Storage Battery Co., Los Angeles, Calif., a Corporation of California. Filed Sept. 10, 1919. Serial No. 322,928. 5 Claims. (Cl. 204—29.)

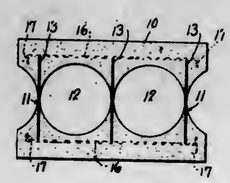


4. The combination with a battery including a jar and plates, of separators interposed between the plates, and reinforcing strips interposed between the separators and the plates and extending transversely thereof at their lower edges, said reinforcing strips being formed with foot flanges which extend under the plates and cooperate therewith to hold the reinforcing strips in position of service when the battery elements are assembled, said strips being separate and removable when the battery elements are taken apart.

1,377,149. BUILDING-BLOCK. CARL A. HADLAND, Ostrander, Minn. Filed Aug. 16, 1919. Serial No. 317,939. 1 Claim. (Cl. 72—42.)

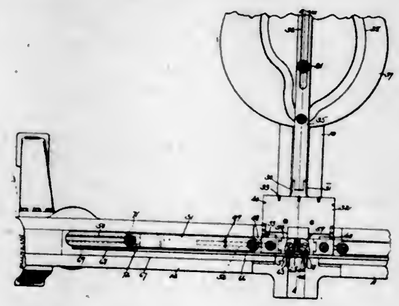
A concrete building block having embedded therein a plurality of spaced, parallel vertically disposed transversely extending reinforcing plates extending across the major portion thereof and terminating flush with the upper and lower surfaces of the block, said reinforcing plates being

each provided with a plurality of holes arranged in staggered rows, and a plurality of longitudinally extending tie



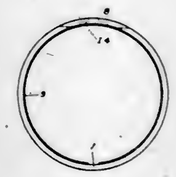
wires at each side of the block in engagement with the ends of said plates, said reinforcing wires extending beyond the outermost plates and having their ends inwardly directed.

1,377,150. WIRE-BENDING MACHINE. ALBERT G. HAGSTROM, East Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed July 14, 1919. Serial No. 310,764. 24 Claims. (Cl. 153—34.)



1. A wire bending machine including a former to receive the wire to be bent, movably mounted clamps to receive and hold the ends of said wire, means for moving said former away from a position approximately between said clamps and laterally to the direction of movement of said clamps to perform one step in the bending operation, and means to move said former toward said clamps to effect another step of the bending operation.

1,377,151. PISTON-RING. ROBERT W. BAKER, Omaha, Nebr., assignor of one-half to Manning W. Cochrane, Omaha, Nebr. Filed July 9, 1920. Serial No. 395,089. 4 Claims. (Cl. 74—109.)



1. A piston ring of the specified class, comprising a discontinuous ring proper, a bridge spanning the opening of the discontinuous ring, and a ribbon spring lining the ring proper and engaging the bridge.

1,377,152. HALOGENATED RUBBER COMPOUND AND METHOD OF PREPARING THE SAME. CLAYTON W. BEDFORD and WILLIAM J. KELLY, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 18, 1919. Serial No. 324,637. 35 Claims. (Cl. 18—50.)

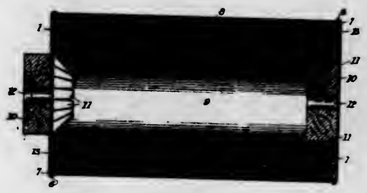
1. A rubber compound, the molecular structure of which includes more than two halogen atoms and an atom of a vulcanizing agent.

1,377,153. CONCRETE SHIP CONSTRUCTION. CHARLES W. DONALDSON, Akron, Ohio. Filed Jan. 3, 1918. Serial No. 210,182. 10 Claims. (Cl. 114—65.)



1. A boat construction of the class described comprising a monolithic hull wall, beam and column construction having embedded therein foraminous reinforcing material initially constituting the form producing means for the boat and forming a permanent part of the structure, the interior outlines of said reinforcing material at the junctures between the walls, beams and columns being curved to form arching supports.

1,377,154. REEL OF SHEET MATERIAL. EDWARD P. FLYNN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 29, 1919. Serial No. 327,138. 10 Claims. (Cl. 242—68.)

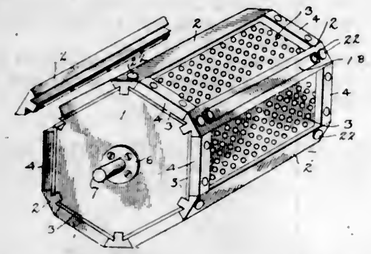


1. An article of manufacture comprising only a sheet of material in the form of a tight roll with a hollow center and two flanged hubs, one at each end of the roll, each hub comprising a flange contacting an end of the roll, tabs extending within the roll and a cylindrical block within said tabs, the cylindrical surface of the block having frictional contact with the tabs throughout their length and the blocks, tabs and roll being held in assembled position by friction alone.

1,377,155. ELECTROPLATING-BARREL. FOREST H. HARTZELL, Dayton, Ohio. Filed Apr. 22, 1919. Serial No. 291,894. 12 Claims. (Cl. 204—5.)

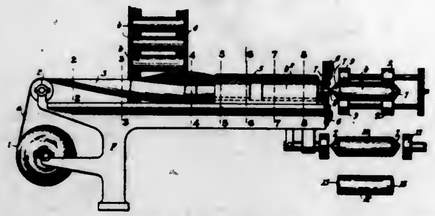
1. In an electroplating apparatus, a revoluble drum, an electrically connected trunnion for said drum, a plurality

of radially disposed electrical conductors connected with said trunnion, and a plurality of removable contact bars



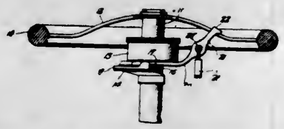
or cathodes longitudinally disposed about the periphery of the drum and detachably engaged in electrical contact with said radially disposed electrical conductors.

1,377,156. WRAPPED ARTICLE. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed Apr. 16, 1917, Serial No. 162,520. Divided and this application filed Feb. 24, 1919. Serial No. 278,732. 4 Claims. (Cl. 206—59.)



1. As an article of manufacture, a flat ended object susceptible to the effects of moisture, and a moisture proof wrapper therefor conforming smoothly to the shape of such object, said wrapping being sealed throughout its length, and having closures at each end formed of the portions thereof extending beyond the corresponding end of the object twisted to form folds converging regularly and radially and under tension to a central compacted union of all such folds, said union being compressed axially against the object into a substantially flat, coherent mass and having a smooth outer surface parallel to the corresponding end of the object.

1,377,157. AUTOMOBILE-LOCK. JOSEPH H. PRICE, Cape Girardeau, Mo. Filed Mar. 13, 1920. Serial No. 365,604. 1 Claim. (Cl. 70—126.)

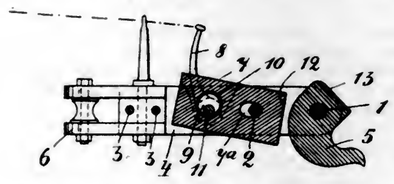


The combination with a steering post, steering wheel, control levers, and quadrant on which the levers work, of a lock plate seated on the quadrant and opposing and abutting the levers in their inactive positions, relatively swingable steering post embracing arms pivotally connected to the lock plate, means for locking the said arms around the steering post, and extensions carried by the said arms, having undercut angular terminal heads for embracing engagement with one of the spokes of the steering wheel, said spoke engaging heads having inner relatively engaging tongue and grooved portions for the purpose described.

1,377,158. PROCESS FOR PRODUCING CATALYTIC AGENTS FOR REDUCTION OR HYDROGENATION PURPOSES. AUGUSTIN RADISSON and PAUL BERTHON, Lyon, France; said Radisson assignor of his right to Societe De Stearinerie et Savonnerie De Lyon, Lyon, France. Filed Oct. 29, 1919. Serial No. 334,331. 3 Claims. (Cl. 23—28.)

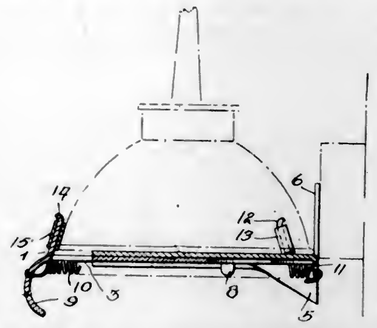
1. A process for producing catalytic agents for reduction or hydrogenation purposes, consisting in reducing a metallic oxid in a mixture of a neutral liquid having a high boiling point and a small proportion of free fatty acid, the said mixture being maintained in a liquid state by heat during the reduction, and constantly agitated by passing a current of hydrogen gas through it.

1,377,159. TOW-HOOK FOR STEAM-TUGS. HEINRICH SPECHTMEIER, Bargteheide, Germany. Filed Apr. 20, 1920. Serial No. 375,320½. 1 Claim. (Cl. 294—84.)



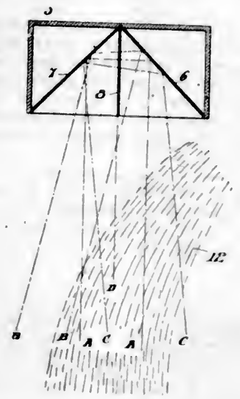
A tow-hook for steam-tugs and the like, comprising, in combination, a frame having two rigid jaws, one with a lateral recess, three distance-bolts to hold said jaws together, a pivotal hook with flattened rear end at the front end of said frame on one of said bolts, a pivotal member at the other end of said frame on another of said bolts, a locking-block with flattened front end having an elongated slot therein by which it is slidably mounted on the third one of said bolts as well as a circular boring, a cam-disk mounted in said circular boring, an axle for said cam-disk turnably located in said jaws, an operating-lever on one end of said axle located when turned-down in the lateral recess in one of said jaws and adapted to move the locking-block by means of said cam-disk toward said hook so that the flattened ends of block and upwardly turned hook are in contact with one another, and means to disengage said operating-lever, substantially as and for the purpose set forth.

1,377,160. OIL-CAN AND CUP HOLDER. ANDREW THIKKAINEN, Virginia, Minn., assignor of one-half to Henry V. Nurmi, Virginia, Minn. Filed May 17, 1920. Serial No. 381,897. 3 Claims. (Cl. 248—20.)



1. A device of the class described comprising a stationary member and a movable member, the side edges of said stationary member being bent over upon the body portion thereof so as to form a guideway for said movable member, stops formed on the forward end of said bent portion, lugs struck from out of said movable member so as to engage said stops when said members are in an extended position, and means for normally holding said members in a closed position.

1,377,161. SIGNALING DEVICE. HERBERT VANDERBEEK, Canton, Ohio. Filed Dec. 21, 1916. Serial No. 138,278. 3 Claims. (Cl. 88—1.)



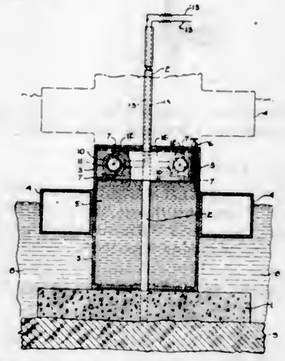
1. A signaling device comprising a support and flat reflectors located thereon at substantially right angles one to another and vertical with respect to said support, whereby rays of light projected on one reflector will be projected back from the other reflector in lines parallel to those in which they travel to said reflectors, and a colored member located on a plane passing centrally between the plane faces of the reflectors.

1,377,162. DISK WHEEL. GEORGE H. FORSYTH, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 370,629. 17 Claims. (Cl. 301—64.)



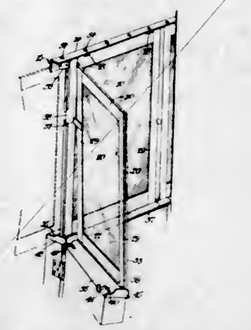
1. In a wheel, the combination of a rear hub plate having a forwardly facing depression, a front hub plate overlying the rear hub plate, a disk having its central portion disposed between the plates and provided with bolt apertures in register with the depression, the material of the disk flanged rearwardly about the apertures, and clamping bolts transfixing the plate, disk and flange.

1,377,163. METHOD AND APPARATUS FOR DERIVING MECHANICAL POWER FROM TIDES AND WAVES. JAMES C. P. POOL, Brooklyn, N. Y., assignor of one-third to Alice Lawrence Pool, Brooklyn, N. Y. Filed Oct. 5, 1920. Serial No. 414,809. 4 Claims. (Cl. 253—4.)



2. In an apparatus for deriving mechanical power from tides and waves the combination of a fixed piston having one or more openings mounted in a buoyant cylinder raised and lowered by the waves and tides, liquid in the cylinder, and means carried by the fixed piston to generate power as the liquid in the cylinder is forced through one or more openings in the fixed piston.

1,377,164. CONVERTIBLE VEHICLE-BODY. CHARLES DAVID WILLIAMS, New York, N. Y., assignor to Adams-Williams Manufacturing Corporation, a Corporation of New York. Filed Jan. 11, 1916. Serial No. 71,516. 13 Claims. (Cl. 296—45.)



1. In combination, a vehicle body having a door, a top spaced from the upper edge thereof, a molding strip secured to the upper edge of said door and having recesses spaced apart along the length thereof, a panel including a frame, a transparent section and lugs depending from the lower edge of said frame and adapted to enter said recesses, and means carried by said molding strip for clamping said lugs within said recesses and holding said panel substantially rigid in respect to said door, and tilted inwardly so as to resiliently engage with said top.

1,377,165. CONVERTIBLE AUTOMOBILE-BODY CONSTRUCTION. CHARLES DAVID WILLIAMS, New York, N. Y., assignor to Adams-Williams Manufacturing Corporation, a Corporation of New York. Original application filed Jan. 11, 1916, Serial No. 71,516. Divided and this application filed Aug. 19, 1919. Serial No. 318,498. 16 Claims. (Cl. 296—45.)

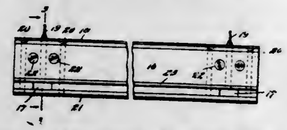
1. A convertible automobile body, including a wall section, a removable panel having a plurality of depending lugs, a plurality of separate members rigidly secured to

the upper edge of said wall section and each having a lug receiving socket therein, separate means for clamping each lug within its corresponding socket, and a molding



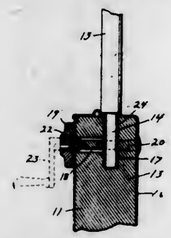
strip extending over said members to cover the same and having lug receiving apertures registering with said sockets.

1,377,166. CONVERTIBLE AUTOMOBILE-BODY CONSTRUCTION. CHARLES DAVID WILLIAMS, New York, N. Y., assignor to Adams-Williams Manufacturing Corporation, a Corporation of New York. Original application filed Jan. 11, 1916, Serial No. 71,516. Divided and this application filed Aug. 22, 1919. Serial No. 319,057. 9 Claims. (Cl. 296—45.)



9. An article of manufacture, a molding strip adapted to be secured to the upper edge of an automobile body wall section, and having a pair of vertically disposed lug receiving sockets, and a pair of clamping screws carried by said strip adapted to intersect said sockets to clamp panel lugs therein.

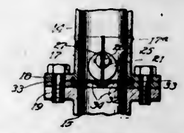
1,377,167. AUTOMOBILE-BODY CONSTRUCTION. WILLIAM CHARLES CUNNINGHAM, New York, N. Y., assignor to Adams-Williams Mfg. Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,502. 6 Claims. (Cl. 296—45.)



1. A vehicle body having a wall section including a wood frame and a sheet metal outer casing, a socket member in the upper edge of the frame and open at the top, a plate on the side of the wall section opposite to said sheet metal casing, connecting members extending through said frame upon opposite sides of said socket member and preventing separation of said plate and casing, and a clamping member carried by said plate and projecting through the wall of said socket member.

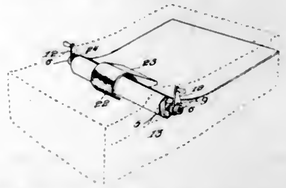
1,377,168. MANIFOLD-LOCK FOR INTERNAL-COMBUSTION ENGINES. WILLIAM F. AWE, Chicago, Ill., assignor of one-half to Martin P. H. Schroeder, Chicago Ill. Filed June 25, 1920. Serial No. 391,711. 5 Claims. (Cl. 251—6.)

1. A manifolding lock for internal combustion engines comprising a fitting inserted in and forming a fixed portion of the intake manifold of an engine, said fitting having a flange for securing the carbureter of the engine, a laterally projecting hollow boss on said fiting, a lock therein, a set screw in said fitting for holding said lock, said screw being rendered invisible by the carbureter when the same is secured to the flange of said fitting, said lock having a rotatable barrel, a block secured to the inner end of said barrel, a saw slot in said block, a butterfly



valve having a notched edge received in said slot and pinned to said block, and a spring in said fitting extending transversely thereof, for engaging the edge of said butterfly valve to hold the same in open position, the ends of said spring being bent to engage in holes in the flange of said fitting, said spring being rendered invisible and secured in position when the carbureter is secured to the flange of said fitting.

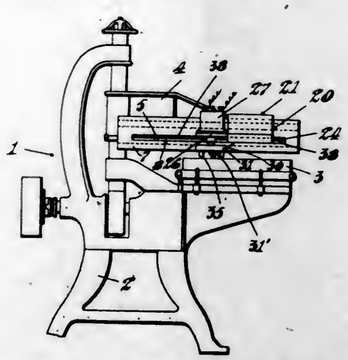
1,377,169. RUG-EXTRACTOR. ADAM PURMAN MAIZE, Allentown, Pa., assignor of one-half to H. E. Bohner, Allentown, Pa. Filed Aug. 11, 1920. Serial No. 402,905. 12 Claims. (Cl. 242—85.)



9. A device for extracting a rug or the like from a pile, comprising opposed means for engaging the end of a pole on which the rug is adapted to be wound, means for turning the same, means for releasing said engaging means from the pole at either side to leave the rug rolled on the pole, and a guide member of tapered formation to pass between the rugs and having a recess or pocket receiving the rug and to move along with the same during the winding operation.

REISSUES.

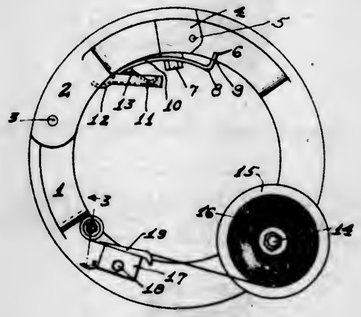
15,098. BLOCK-LEVELER. ALBERT CASH, Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 3, 1919. Serial No. 342,238. Original No. 1,249,026, dated Dec. 4, 1917, Serial No. 122,100, filed Sept. 25, 1916. 12 Claims. (Cl. 164—34.)



1. The combination with a machine having a block or bed and an arm movable thereover, of a detachable unitary

block resurfacing apparatus comprising a planing or leveling device, an electric motor, a slide on which said motor and planing device are mounted, and means for supporting the slide for movements relatively to the arm comprising a plurality of guides having upwardly facing surfaces which directly support the slide.

15,099. WRAPPING-MACHINE FOLDER. WILLIAM C. STEVENS, Akron, Ohio, assignor to Pierce Wrapping Machine Company, a Corporation of Illinois. Filed Mar. 8, 1920. Serial No. 364,246. Original application filed Aug. 19, 1912, Serial No. 715,745. Patent No. 1,196,044, dated Aug. 29, 1916. Divided and application filed July 1, 1916. Serial No. 107,080. Original No. 1,243,357, dated Oct. 16, 1917. 6 Claims. (Cl. 270—93.)

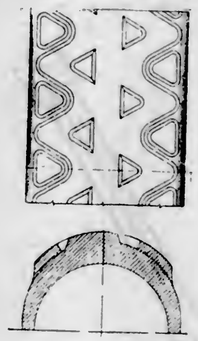


2. In a device of the class described, the combination with paper-supporting mechanism of a folding device for said paper mounted to automatically adjust itself to said mechanism as the direction of feed of the paper to said device varies.

6. In a device of the class described, the combination with paper-supporting mechanism, of a folding device for said paper mounted to automatically adjust itself to said mechanism as the direction of feed of the paper to said device varies, said device being adapted when desired to be clamped in any adjusted position.

DESIGNS.

57,759. RUBBER TIRE. WILLIAM E. ARMACOST, Columbus, Ohio, assignor to The Columbus Tire & Rubber Company, Columbus, Ohio, a Corporation. Filed Mar. 6, 1920. Serial No. 363,843. Term of patent 14 years.



The ornamental design for a rubber tire as shown.

57,760. FLASHLIGHT-HEAD. ARTHUR GILBERT ARNOLL, Glendale, Calif., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,297. Term of patent 14 years.



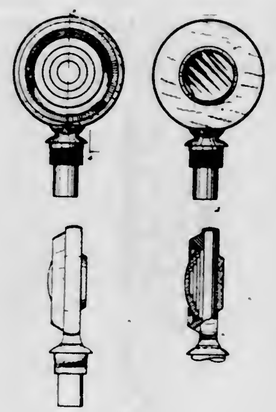
The ornamental design for a flashlight head as shown.

57,761. RADIATOR-CAP. ELLSWORTH W. AUSTIN, Plymouth, Conn. Filed Dec. 24, 1920. Serial No. 433,077. Term of patent 3½ years.



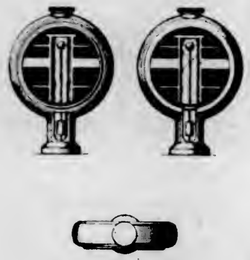
The ornamental design for a radiator cap, as shown.

57,762. RADIOMETER-CASE. HORACE BARNES, Seattle, Wash. Filed Nov. 16, 1920. Serial No. 424,559. Term of patent 14 years.



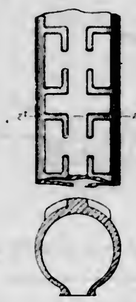
The ornamental design for a radiometer case, as shown

57,763. INDICATOR FOR AUTOMOBILES. CLARENCE A. BEARDMORE, Annapolis, Md. Filed Nov. 15, 1920. Serial No. 424,307. Term of patent 14 years.



The ornamental design for an indicator for automobiles, as shown.

57,764. ELASTIC VEHICLE-TIRE. EDGAR OLIVER BLEKRE, Minneapolis, Minn. Filed Aug. 16, 1920. Serial No. 403,949. Term of patent 7 years.



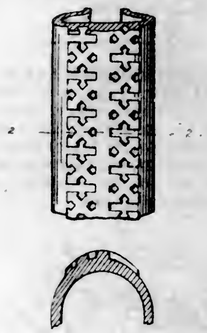
The ornamental design for an elastic vehicle tire, as shown.

57,765. ELASTIC VEHICLE-TIRE. EDGAR OLIVER BLEKRE, Minneapolis, Minn. Filed Aug. 16, 1920. Serial No. 403,950. Term of patent 7 years.



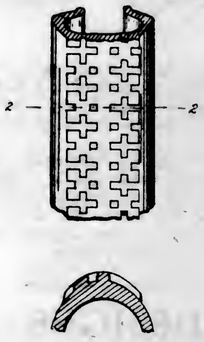
The ornamental design for an elastic vehicle tire, as shown.

57,766. ELASTIC VEHICLE-TIRE. EDGAR OLIVER BLEKRE, Minneapolis, Minn. Filed Sept. 7, 1920. Serial No. 408,794. Term of patent 7 years.



The ornamental design for an elastic vehicle tire, as shown.

57,767. ELASTIC VEHICLE-TIRE. EDGAR OLIVER BLEKRE, Minneapolis, Minn. Filed Sept. 7, 1920. Serial No. 408,795. Term of patent 7 years.



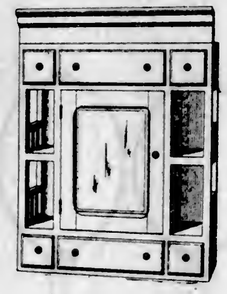
The ornamental design for an elastic vehicle tire, as shown.

57,768. WRENCH. ALMON CHADWICK, San Antonio, Tex. Filed Sept. 17, 1920. Serial No. 410,991. Term of patent 14 years.



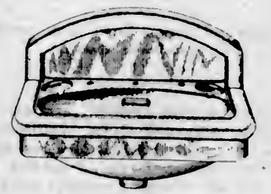
The ornamental design for a wrench, as shown.

57,769. CABINET. CHARLES A. COOLEY, Columbus, Ohio. Filed Sept. 22, 1920. Serial No. 412,103. Term of patent 7 years.



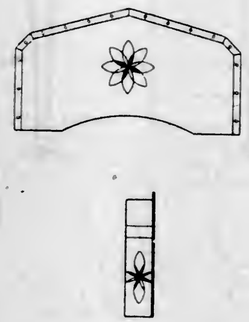
The ornamental design for a cabinet as shown.

57,770. WASHBASIN. RAYMOND E. CRANE, Wilmette, Ill. Filed Aug. 26, 1920. Serial No. 406,235. Term of patent 14 years.



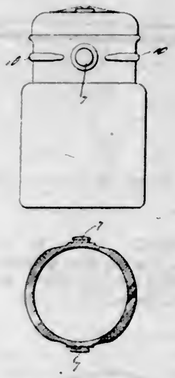
The ornamental design for a washbasin as shown.

57,771. AUTOMOBILE IGNITION-SHIELD. EDWARD O. DIVINE, Central City, Nebr. Filed Dec. 16, 1920. Serial No. 431,270. Term of patent 3½ years.



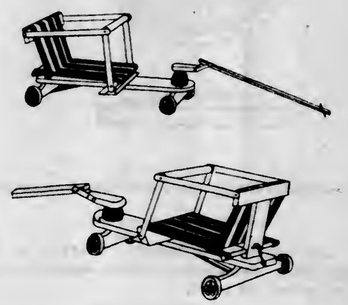
The ornamental design for an automobile ignition shield, as shown.

57,772. FRUIT-JAR. LEO A. DREY, St. Louis, Mo., and JAMES L. HIATT, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 17, 1919. Serial No. 345,654. Term of patent 14 years.



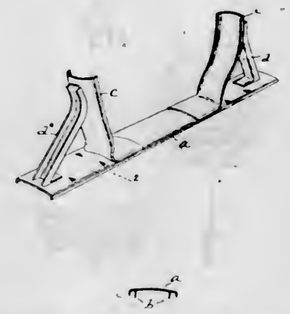
The ornamental design for a fruit jar as shown and described.

57,773. COLLAPSIBLE BABY-CARRIAGE. MILTON S. DUNKELBERGER, Dayton, Ohio. Filed Oct. 4, 1920. Serial No. 414,679. Term of patent 14 years.



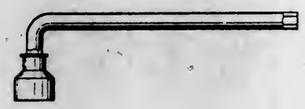
The ornamental design for a collapsible baby-carriage, as shown.

57,774. WHEEL-CHOCK. VICTOR ROYAL FRANCIS, Detroit, Mich. Filed Apr. 5, 1920. Serial No. 371,494. Term of patent 7 years.



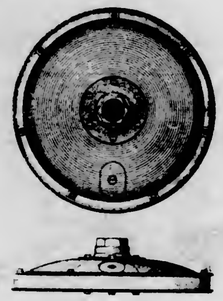
The design for a wheel chock as shown.

57,775. SOCKET-WRENCH. DAVID F. GRAHAM, Coudersport, Pa., assignor to Graham Roller Bearing Company, Coudersport, Pa. Filed Apr. 12, 1920. Serial No. 373,406. Term of patent 7 years.



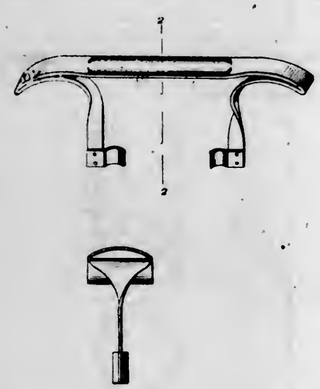
The ornamental design for a socket wrench as shown.

57,776. DISK WHEEL. LOUIS B. HARVEY, Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Filed Feb. 25, 1920. Serial No. 361,269. Term of patent 14 years.



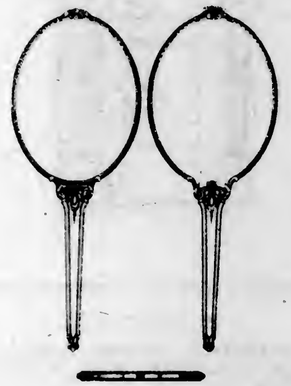
The ornamental design for a disk wheel as shown.

57,777. AUTOMOBILE-BUMPER. EVERETT R. JONES, Detroit, Mich. Filed Sept. 5, 1919. Serial No. 322,001. Term of patent 14 years.



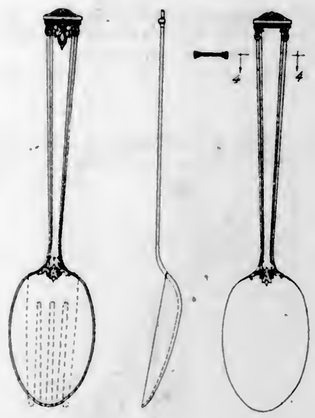
The ornamental design for an automobile bumper, as shown.

57,778. BACK FOR HAND-MIRRORS, BRUSHES, OR SIMILAR ARTICLES. ALFRED G. KINTZ, Wallingford Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Sept. 20, 1920. Serial No. 411,675. Term of patent 7 years.



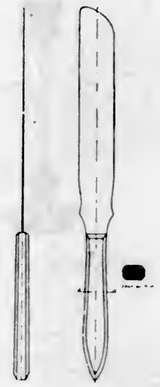
The ornamental design for a back for hand mirrors, brushes or similar articles as shown.

57,779. HANDLE FOR SPOONS, FORKS, OR SIMILAR ARTICLES. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Oct. 20, 1920. Serial No. 418,337. Term of patent 7 years.



The ornamental design for a handle for spoons, forks, or similar articles as shown.

57,780. SPATULA. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,965. Term of patent 14 years.



The ornamental design for a spatula, as shown

57,781. TIRE-TREAD. NORTH H. LOSEY, Akron, Ohio Filed Dec. 6, 1920. Serial No. 428,834. Term of patent 14 years.



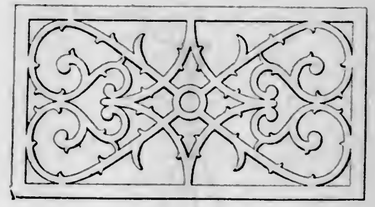
The ornamental design for a tire tread as shown

57,782. VEHICLE-TOP. JAMES LOWERY, Euclid, Ohio assignor to The General Top Company, Cleveland, Ohio a Corporation of Delaware. Filed June 21, 1920. Serial No. 390,660. Term of patent 7 years.



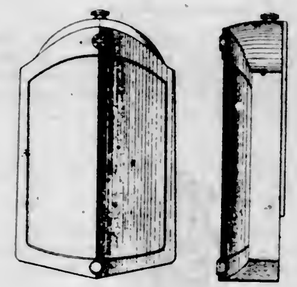
The ornamental design for a vehicle top as shown.

57,783. GRILLE FOR TALKING-MACHINES. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Oct. 25, 1920. Serial No. 419,525. Term of patent 3½ years.



The ornamental design for a grille for talking-machines, as shown.

57,784. MOTOR-VEHICLE RADIATOR. VICTOR W. PAGE, New York, N. Y. Filed Feb. 16, 1921. Serial No. 445,564. Term of patent 14 years.



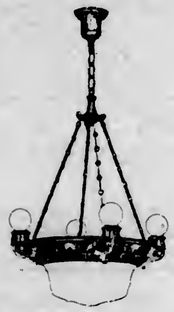
The ornamental design for a motor vehicle radiator as shown.

57,785. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Co., Inc., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,321. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

57,786. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Co., Inc., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,322. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

57,787. BRACKET FOR LIGHTING MEANS. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Co., Inc., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,323. Term of patent 3½ years.



The ornamental design for a bracket for lighting means, as shown.

57,788. BRACKET FOR LIGHTING MEANS. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Co., Inc., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,324. Term of patent 3½ years.



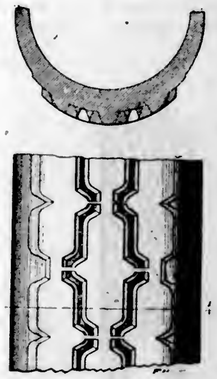
The ornamental design for a bracket for lighting means, as shown.

57,789. PENDANT FOR LIGHTING MEANS. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Co., Inc., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,325. Term of patent 3½ years.



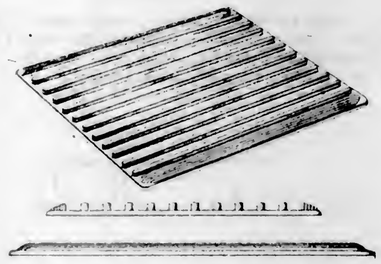
The ornamental design for a pendant for lighting means, as shown.

57,790. TIRE. FRED HASKELL SMITH, Bloomfield, N. J. Filed Sept. 18, 1920. Serial No. 411,330. Term of patent 14 years.



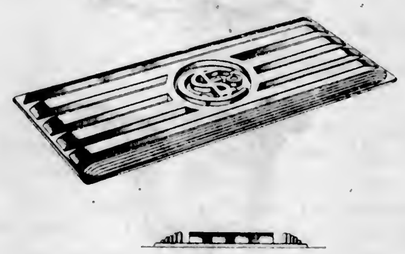
The ornamental design for a tire as shown.

57,791. AUTOMOBILE STEP-PLATE. FRANK H. STANWOOD, Chicago, Ill., assignor to Stanwood Equipment Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 24, 1919. Serial No. 333,129. Term of patent 14 years.



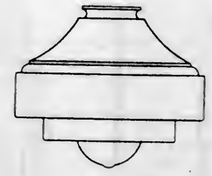
The ornamental design for an automobile step plate, as shown.

57,792. AUTOMOBILE STEP-PLATE. FRANK H. STANWOOD, Chicago, Ill., assignor to Stanwood Equipment Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 24, 1919. Serial No. 333,130. Term of patent 14 years.



The ornamental design for an automobile step plate, as shown.

57,793. LAMP-SHADE. ERNEST H. STRAUSS, Chicago, Ill. Filed Mar. 25, 1920. Serial No. 368,742. Term of patent 7 years.



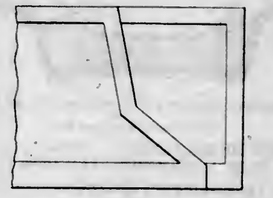
The ornamental design for a lamp-shade as shown.

57,794. AUTOMOBILE - RADIATOR - REPAIRING - MACHINE FRAME. ELMER B. THOMPSON, Des Moines, Iowa, assignor to Automotive Radiator Machine Company, Fort Dodge, Iowa, a Corporation. Filed Sept. 7, 1920. Serial No. 408,793. Term of patent 14 years.



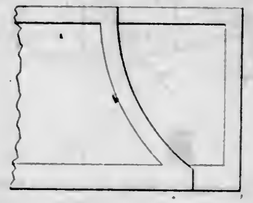
The ornamental design for an automobile radiator repairing machine frame, as shown.

57,795. AUTOMOBILE SIDE CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed Nov. 29, 1919. Serial No. 341,544. Term of patent 14 years.



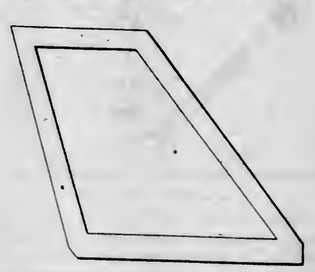
The ornamental design for an automobile side curtain, as shown.

57,796. AUTOMOBILE SIDE CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed Nov. 29, 1919. Serial No. 341,545. Term of patent 14 years.



The ornamental design for an automobile side curtain, as shown.

57,797. AUTOMOBILE SIDE CURTAIN. RALPH K. THOMSON, Sioux Falls, S. D. Filed Oct. 11, 1920. Serial No. 416,325. Term of patent 14 years.



The ornamental design for an automobile side curtain, as shown.

57,798. CAN-OPENER. HENRY TILL, Pittsburg, Calif. Filed June 19, 1920. Serial No. 390,258. Term of patent 14 years.



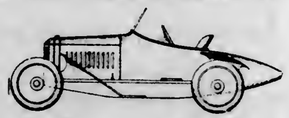
The ornamental design for a can-opener, as shown.

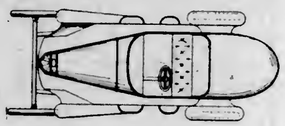
57,799. MUD-GUARD. EDWIN LEE TOMLINSON, North Branch, Mich. Filed Feb. 1, 1921. Serial No. 441,680. Term of patent 14 years.



The ornamental design for a mud guard as shown.

57,800. AUTOMOBILE-BODY. MURRAY C. TUNISON, Oakland, Calif. Filed Oct. 18, 1920. Serial No. 417,851. Term of patent 3½ years.

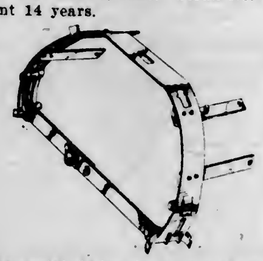






The ornamental design for an automobile body as shown.

57,801. TIRE-CARRIER. HENRY G. VOIGHT, New Haven, Conn. Filed Dec. 10, 1920. Serial No. 429,816. Term of patent 14 years.



The ornamental design for a tire-carrier, as shown.

57,802. TWO-LIGHT SHOWER-PLATE. LESTER R. WELLMAN, Chicago, Ill., assignor to Friedly-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed June 28, 1920. Serial No. 392,528. Term of patent 7 years.

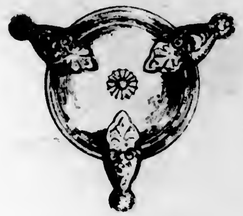




The ornamental design for a two-light shower plate, as shown.

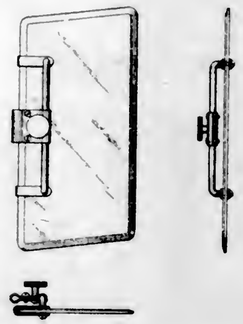
57,803. PLATE FOR LIGHTING-FIXTURES. LESTER R. WELLMAN, Chicago, Ill., assignor to Friedly-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed June 28, 1920. Serial No. 392,529. Term of patent 7 years.





The ornamental design for a plate for lighting fixtures, as shown.

57,804. WIND-DEFLECTOR. ARDIE WILLIAMS, Los Angeles, Calif., assignor of one-half to Edwin A. Parkford and Harry Boyer, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,718. Term of patent 7 years.



The ornamental design for a wind deflector as shown.

57,805. RADIATOR-CAP. I. LEO WOLKOW, Louisville, Ky. Filed Jan. 10, 1921. Serial No. 436,371. Term of patent 7 years.





The ornamental design for a radiator cap as shown.

TRADE-MARKS

OFFICIAL GAZETTE MAY 3, 1921.

[PUBLISHED MAY 10, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 109,012. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN S. PASCHALL, New York, N. Y. Filed Feb. 15, 1918.

MYCOLEUM

Particular description of goods.—Therapeutic Preparation for Treatment of Tuberculosis.
Claims use since Oct. 15, 1917.

Ser. No. 114,842. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALWORTH SALES CORPORATION, New York, N. Y. Filed Dec. 27, 1918.

Langora

Particular description of goods.—Woolen and Cotton Piece Goods.
Claims use since the autumn of 1918.

Ser. No. 119,602. (CLASS 38. PRINTS AND PUBLICATIONS.) A. S. J. GAMMON, Norfolk, Va. Filed June 14, 1919.

Particular description of goods.—Booklets Published Monthly, Used in Connection with Saving Systems.
Claims use since Apr. 15, 1919.

Ser. No. 120,657. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE GRAPHOSCOPE COMPANY, Washington, D. C. Filed July 14, 1919.

Graphoscope

Said trade-mark consisting of the word "Graphoscope."
Particular description of goods.—Motion-Picture Machines and Parts Thereof.
Claims use since March, 1915.

Ser. No. 120,795. (CLASS 42. KNITTED, NETTED, AND TEXTLE FABRICS.) LONSDALE COMPANY, Providence, R. I. Filed July 22, 1919.

BLEACHED AND FINISHED AT LINCOLN BLEACHERY AND DYE WORKS

No claim is made to the words "Bleached and Finished at" apart from the remainder of the mark shown in drawing. This trade-mark includes the name under which the applicant company is doing business.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since May, 1919.

Ser. No. 124,527. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WILLIAM R. LEE, Rochester, N. Y. Filed Nov. 4, 1919.

gilco

Particular description of goods.—Felt-Surfaced Shoe Polishers and Brushes and Brushes and Dusters for Phonographic Records.
Claims use since about March, 1918.

Ser. No. 124,961. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE UNION METAL MANUFACTURING COMPANY, Canton, Ohio. Filed Nov. 15, 1919.

UNION

Particular description of goods.—Metal Lamp-Posts for Electric Lights.
Claims use since July 5, 1907.

Ser. No. 125,375. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ENDLESS BELT CORPORATION, INC., New York, N. Y. Filed Nov. 28, 1919.

EBCO

Particular description of goods.—Linen, Cotton, and other Fabric Belts.
Claims use since Nov. 27, 1918.

Ser. No. 125,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLOBE GROCERY STORES, INC., Brooklyn, N. Y. Filed Dec. 11, 1919.

POCONO

Particular description of goods.—Cream of Tartar, Soda, Lump-Starch, Toilet Water, Baking-Powder, Witch-Hazel, Ammonia, Solid and Liquid Laundry Blue, Cold-Cream, and Talcum Powder.
Claims use since January, 1916.

Ser. No. 126,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EXCELSIOR BAKING COMPANY, Minneapolis, Minn. Filed Dec. 15, 1919.



Particular description of goods.—Toast.
Claims use since on or about Jan. 1, 1912.

Ser. No. 126,752. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SIOUX CITY TIRE AND MANUFACTURING COMPANY, Sioux City, Iowa. Filed Jan. 2, 1920.

STAMINA OF THE SIOUX

Consists of the words "Stamina of the Sioux."
Particular description of goods.—Rubber Inner Tire-Tubes and Fabric and Cord Tire-Casings.
Claims use since July 1, 1918.

Ser. No. 126,787. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) AMERICAN WHOLESALE CORPORATION, Baltimore and Cumberland, Md. Filed Jan. 5, 1920.

MASCOT TUBES
Too Tough For Me

The words "Tubes" and "Too Tough for Me" being disclaimed apart from the mark as shown.
Particular description of goods.—Automobile-Tire Tubes.
Claims use since April, 1919.

Ser. No. 127,171. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES G. EMERSON, Erie, Pa. Filed Jan. 15, 1920.

MOHAWK

Particular description of goods.—Hair-Tonic.
Claims use since Dec. 23, 1919.

Ser. No. 127,479. (CLASS 39. CLOTHING.) THE KELLER KNITTING COMPANY, Cleveland, Ohio. Filed Jan. 22, 1920.

KELLER KAP

No claim is made to the words "Keller Kap" apart from the mark shown in the drawing.
Particular description of goods.—Knitted Caps, Including Skating-Caps, Stocking-Caps.
Claims use since about Dec. 1, 1911.

Ser. No. 127,666. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SUNSET PAINT COMPANY, Los Angeles, Calif. Filed Jan. 27, 1920.

Blue Ribbon

Particular description of goods.—House-Paints, Velour Blanc, Oil-Colors, and Zinc Paste.
Claims use since 1904.

Ser. No. 127,789. (CLASS 2. RECEPTACLES.) THE SCHAEFER TENT & AWNING COMPANY, Denver, Colo. Filed Jan. 30, 1920.

"RED SEAL"

Particular description of goods.—Water-Bags.
Claims use since Jan. 1, 1914.

Ser. No. 128,049. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SABERTON MFG. CO., Tampa, Fla. Filed Feb. 6, 1920.

Vege-Tonic

Consisting of the words "Vege-Tonic."
Particular description of goods.—Toilet Soap.
Claims use since Dec. 6, 1919.

Ser. No. 128,534. (CLASS 39. CLOTHING.) SUNSHINE NECKWEAR COMPANY, Los Angeles, Calif. Filed Feb. 17, 1920.

SUNSHINE CRAVAT
LOS ANGELES

No claim being made to the words "Cravat" and "Los Angeles" apart from the mark as shown.
Particular description of goods.—Men's Neckties and Cravats.
Claims use since July 11, 1919.

Ser. No. 128,971. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill. Filed Feb. 27, 1920.

INDIANA INDESTRUCTIBLE PAINT CO.

Particular description of goods.—Ready-Mixed Paints, Enamels, Varnish, Wood-Stains, Colors in Oil, Dry Colors; Coach, Auto, and Carriage Paints; Furniture-Dressing, Marine Paints, Lacquers, Colors in Japans, Driers, Floor-Wax, Cement-Floor Paint, Graphite Paint, Wood-Fillers, Putty, Paint and Varnish Remover, Mill-White, Cold-Water Paint, Inside Flat Black, Outside Flat Black, Iron-Filler Used as a Paste Paint, Red Lead, and Priming and Trimming Colors.
Claims use since Feb. 1, 1905.

Ser. No. 129,155. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) UNION BROACH CO., INC., New York, N. Y. Filed Mar. 2, 1920.

INDIAN HEAD

Particular description of goods.—Mouth-Mirrors.
Claims use since Jan. 1, 1913.

Ser. No. 129,269. (CLASS 39. CLOTHING.) MCKIBBIN, DRISCOLL & DORSEY, INC., St. Paul, Minn. Filed Mar. 5, 1920.

McKibbin Hats
A good idea for your head

No claim being made to the words "McKibbin Hats."
Particular description of goods.—Men's Hats.
Claims use since July 1, 1919.

Ser. No. 129,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDREW H. RYAN, Sapulpa, Okla. Filed Mar. 16, 1920.

TRADE MARK
KAP-OIL

No claim being made to the words "Trade Mark."
Particular description of goods.—A Salve or Ointment for External Use in Treatment of Cuts, Wounds, Old Sores, Burns, Boils, Toothache, Earache, Ulcers, Itch, Eczema, Soreness in the Back, Rheumatism, Neuralgia, Croup, Cold on Lungs, Sprains, Inflammation in Any Part of the Body.
Claims use since Oct. 1, 1915.

Ser. No. 130,161. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANTOINETTE MALARD DE SERVAIS, Montreal, Quebec, Canada. Filed Mar. 25, 1920.

PHOSPHARINOL
TRADE MARK REGISTERED
DE SERVAIS

No claim is made for the words "Marque de Commerce Déposée" and "Trade Mark Registered" apart from the mark shown in the drawing.
Particular description of goods.—Cereal Foods for Infants and Adults.
Claims use since Mar. 25, 1920.

Ser. No. 130,729. (CLASS 12. CONSTRUCTION MATERIALS.) NORTON COMPANY, Worcester, Mass. Filed Apr. 6, 1920.

NORTON

Particular description of goods.—Safety-Tread Tiles and Terrazzo of Bonded Abrasive Grains.
Claims use since January, 1919.

Ser. No. 130,730. (CLASS 12. CONSTRUCTION MATERIALS.) NORTON COMPANY, Worcester, Mass. Filed Apr. 6, 1920.

ALUNDUM

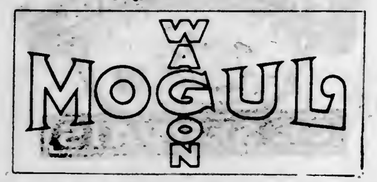
Particular description of goods.—Safety-Tread Tiles and Terrazzo of Bonded Abrasive Grains.
Claims use since January, 1919.

Ser. No. 130,835. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS C. KELLEY, Birmingham, Ala. Filed Apr. 8, 1920.



No claim being made to the following words appearing on the drawing or specimens filed herewith: "The Best is the, Per-Fec-Tion Hair Treatment, Trade Mark. I Tried the Rest, I Used the Best."
Particular description of goods.—A Remedy for the Scalp and for the Hair Used in the Treatment of Eczema, Tetter, and Dandruff, Cleansing the Scalp, and Promoting the Growth of the Hair.
Claims use since June 16, 1914.

Ser. No. 130,907. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MOGUL WAGON COMPANY, Hopkinsville, Ky. Filed Apr. 9, 1920.



No claim being made to the word "Wagon" apart from the mark shown on the drawing.
Particular description of goods.—Farm, Log, and One-Horse Wagons.
Claims use since Jan. 1, 1871.

Ser. No. 131,534. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. METZ LABORATORIES, INC., New York, N. Y. Filed Apr. 23, 1920.

SALVARSAN SODIUM

Applicant has the exclusive right to the use in the United States of the trade-mark "Salvarsan." No exclusive right to the use of the word "Sodium" is claimed.
Particular description of goods.—A Remedy Against Syphilis, Sleeping-Sickness, Trypanosomiasis, and other Tropical Infectious Diseases.
Claims use since Mar. 29, 1920.

Ser. No. 131,568. (CLASS 2. RECEPTACLES.) CHALLENGE HIGH VACUUM COMPANY, Chicago, Ill. Filed Apr. 24, 1920.

THERMOREX

Particular description of goods.—Thermally-Insulated Containers for Foods and Liquids—Namely, Vacuum-Jacketed Carafes and Metal Food-Containers Comprising Vacuum-Jacketed Receptacle and Cover Portions.
Claims use since Apr. 12, 1919.

Ser. No. 131,609. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y. Filed Apr. 24, 1920.



Particular description of goods.—Carpets, Draperies, Tapestries, Cotton Duck in the Piece and Cotton Piece Goods, Cloth Dusters, Filter-Cloth, Handkerchiefs, Hair-Nets, Knit Goods in the Piece, Lace Curtains, Linings in the Piece, Matting; Nets, (Cotton and Silk;) Pillow-Cases, Quilts, Ribbons in the Piece, Rugs of Fiber and Textile Fabrics, Sheets, Towels, Webbing-Elastic, Woolens in the Piece, Burlap in the Piece, and Canvas in the Piece.
Claims use since Jan. 16, 1920.

Ser. No. 132,831. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORA E. WILLIAMS, San Francisco, Calif. Filed May 22, 1920.

Floradora

Particular description of goods.—Hair-Tonic.
Claims use since Apr. 10, 1920.

Ser. No. 133,416. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCES H. GREEN, New York, N. Y. Filed June 8, 1920. Under ten-year proviso.



Particular description of goods.—Face-Powders, Rouges, Talcum Powders, Eyelash Colorer and Stiffener, Hair-Tonics, Face-Creams, Olive-Oil Creams, Almond-Oil Creams, Face-Bleaches, Almond Bleach-Creams, Lip-Rouge Sticks, and Eyebrow-Pencils.
Claims use since 1889.

Ser. No. 133,601. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ANDERSON ELECTRIC & EQUIPMENT COMPANY, Chicago, Ill. Filed June 12, 1920.

Reelite

Particular description of goods.—Electric Lamps Suitable for Vehicle Spotlights and Searchlights and Portable Lamps Adapted for Operable Temporary Removal from Their Supports.
Claims use since October, 1919.

Ser. No. 133,632. (CLASS 39. CLOTHING.) PLIMACK BROTHERS, INC., New York, N. Y. Filed June 12, 1920.

Rialto Fashion Clothes

No claim being made to the words "Fashion Clothes."
Particular description of goods.—Men's and Young Men's Suits and Overcoats.
Claims use since May 10, 1919.

Ser. No. 134,482. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) PARKER & WATERMAN MANUFACTURING CO., Los Angeles, Calif. Filed June 21, 1920.



The lines within the triangle of the mark as shown indicating shading, the words "Tire Covers" and the representation of the goods being disclaimed.
Particular description of goods.—Flexible Fabric Tire-Covers.
Claims use since Aug. 1, 1919.

Ser. No. 135,316. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLON W. BRANDUS, Brooklyn, N. Y. Filed July 23, 1920.

'Stomatone'

Particular description of goods.—A Medicinal Powder—Namely, a Preparation Designed to Correct Underassimilation of Food, Relieve Indigestion, Excessive Gas, Heartburn, Distress After Eating, Headache, Nausea, Sea-Sickness, and Kindred Ailments of the Digestive Organs.
Claims use since July 15, 1920.

Ser. No. 135,401. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISADORE BULLION, Memphis, Tenn. Filed July 26, 1920.

RED AND WHITE

"Red and White" shown in the accompanying drawing.
Particular description of goods.—Skin-Ointment for External Use, Hair-Dressing, Cold-Cream, Vanishing Cream, Talcum Powder, Face-Powder, Shampoo, Liniment for Relieving External Aches and Pains, and Tonic for Blood-Purifier.
Claims use since May 15, 1920.

Ser. No. 135,402. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISADORE BULLION, Memphis, Tenn. Filed July 26, 1920.



Consisting of two red and two white triangles.
Particular description of goods.—Skin-Ointment for External Use, Hair-Dressing, Cold-Cream, Vanishing Cream, Talcum Powder, Face-Powder, Shampoo, Liniment for Relieving External Aches and Pains, and Tonic for Blood-Purifier.
Claims use since May 15, 1920.

Ser. No. 136,115. (CLASS 38. PRINTS AND PUBLICATIONS.) CHEMICAL PAPER COMPANY, Washington, D. C. Filed Aug. 14, 1920.

Utiloid
PRODUCTS

The word "Products" apart from the mark shown being disclaimed.
Particular description of goods.—Completely-Printed Transparent Meat-Labels.
Claims use since January, 1920.

Ser. No. 136,203. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PHILBERN THERMOMETER CO., New York, N. Y. Filed Aug. 17, 1920.



Particular description of goods.—Thermometers.
Claims use since Feb. 1, 1920.

Ser. No. 136,390. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARK W. ALLEN & CO., Detroit, Mich. Filed Aug. 24, 1920.



Particular description of goods.—Perfume, Toilet Water, Face-Powder, Talcum Powder, Face-Creams, Sachet-Powder, Rouge.
Claims use since July 22, 1920.

Ser. No. 136,392. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O. A. BEAN & SON, Avon, N. Y. Filed Aug. 24, 1920.



The lining appearing upon the drawing being indicative of shading.

Particular description of goods.—Wheat-Flour, Buckwheat-Flour, Rye-Flour, Graham, Cornmeal, Rye-Graham, and Choice Bran.

Claims use since Oct. 12, 1916.

Ser. No. 136,994. (CLASS 39. CLOTHING.) PERFECTION MILLS, INC., New York, N. Y. Filed Sept. 9, 1920.

CHEVRON

Particular description of goods.—Hosiery and Knitted Underwear for Men, Women, and Children.

Claims use since Apr. 23, 1920.

Ser. No. 137,100. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE WHITEHEAD BROS. RUBBER CO., Trenton, N. J. Filed Sept. 11, 1920. Under ten-year proviso.



Particular description of goods.—Hose of Rubber and Cotton Canvas Duck.

Claims use since 1890.

Ser. No. 137,509. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE ALBERT PHONOGRAPH CO., Trenton, N. J. Filed Sept. 23, 1920.



Particular description of goods.—Graphophones or Talking-Machines.

Claims use since Feb. 25, 1920.

Ser. No. 137,649. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH, HOWLAND & CO. INCORPORATED, Boston, Mass. Filed Sept. 25, 1920.

VARNACAR

Particular description of goods.—Varnishes.

Claims use since Aug. 12, 1920.

Ser. No. 137,680. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LOUIS SCHILLER, San Francisco, Calif. Filed Sept. 27, 1920.

ORANCO

Particular description of goods.—Non-Alcoholic Maltless Beverage Sold as a Soft Drink.

Claims use since February, 1920.

Ser. No. 137,706. (CLASS 39. CLOTHING.) D. D. METCALF, Greenville, Ala. Filed Sept. 28, 1920.



The trade-mark embraces, essentially, a rebus comprising the word "Met" and a picture of a calf, thereby indicating my name, "Metcalf," and associated therewith is the expression "Calf Skin." No claim is made herein to the words "Overalls, Made for Hard Wear" appearing on the drawing except in combination with the mark shown.

Particular description of goods.—Overalls, Jumper-Coats, and Unionalls Made of Denim or Similar Material.

Claims use since Aug. 1, 1920.

Ser. No. 137,784. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHN HALL MARX CO., New York, N. Y. Filed Sept. 30, 1920.

DEFIANCE VOILE

Consisting of the words "Defiance Voile," no claim being made to the exclusive use of the word "Voile" apart from the mark as shown in the drawing.

Particular description of goods.—Cotton Voile in the Piece.

Claims use since Dec. 28, 1916.

Ser. No. 137,929. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. C. GEE WO, Portland, Oreg. Filed Oct. 5, 1920.

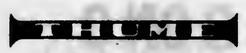


I hereby disclaim any right to register the words "Herbs," "Buds," "Barks," "Roots," "Trade Mark," and "Herbalist" appearing in the drawing filed herewith, the portrait being that of applicant.

Particular description of goods.—Medicinal Preparations for Treatment of Rheumatism, Catarrh, and Stomach Troubles.

Claims use since September, 1912.

Ser. No. 138,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN S. CHISM, Wichita, Kans. Filed Oct. 6, 1920.



Particular description of goods.—Salve for Relief of Inflammations, an External Application for Relief of Headache, Catarrh, Hay-Fever, Sore Throat, Burns, Rheumatism, Eczema, Salt-Rheum, Sunburns, Insect-Bites, Body-Parasites, Dandruff, and an Efficient Remedy for All Diseases or Abrasion of the Skin.

Claims use since September, 1910.

Ser. No. 138,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. PETROUX & CIE., Paris, France. Filed Oct. 15, 1920.

OVODYNE

Particular description of goods.—Tonic Food in Granulated Form.

Claims use since 1919.

Ser. No. 138,359. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIETE GENERALE DES CIRAGES FRANCAIS, Paris, France. Filed Oct. 15, 1920.



Applicant disclaims the right to the exclusive use of the wording appearing upon the drawing, with the exception of the words "Crême Eclipse" and the name of applicant, apart from the mark shown.

Particular description of goods.—Polish for Leather.

Claims use since May 3, 1909.

Ser. No. 138,461. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUNSET FOOD PRODUCTS CO., Seattle, Wash. Filed Oct. 18, 1920.



The word "Cake" being disclaimed.

Particular description of goods.—Prepared Cake-Flour.

Claims use since May 1, 1920.

Ser. No. 138,584. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD E. MCLEAN, Jacksonville, Fla. Filed Oct. 20, 1920.

TA-WE-TA

Particular description of goods.—Medicinal Preparations Used for the Relief of Blood, Liver, Kidneys, Stomach Ailments, and Rheumatism, Habitual Constipation, Dyspepsia, Biliousness, Sick Headache, Sour Stomach, Heartburn.

Claims use since Nov. 3, 1919.

Ser. No. 138,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANISLAW SVIDER, Jackson, Mich. Filed Oct. 22, 1920.



The picture shown is a facsimile of applicant's portrait.

Particular description of goods.—Stones for Treating Eye Disease.

Claims use since July 1, 1920.

Ser. No. 138,706. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RALEIGH A. BAGLEY, Suffolk, Va. Filed Oct. 23, 1920.

Trypsomint

Particular description of goods.—Lozenge for Purifying the Breath, Neutralizing Acidity in the Mouth, Preserving the Teeth, and Aiding Digestion.

Claims use since Sept. 1, 1920.

Ser. No. 138,912. (CLASS 38. PRINTS AND PUBLICATIONS.) ANCIENT AND MYSTICAL ORDER ROSAE CRUCIS, San Francisco, Calif. Filed Oct. 28, 1920.



The words "Cro Maat" appearing on the drawing are of Egyptian origin, representing "The Truth Shall Be," and are hereby disclaimed except in connection with the rest of the mark as shown.

Particular description of goods.—A Periodical Publication Published Monthly and Printed, Engraved, Type-

written, and Photographic Copies of Official, Prescribed, and Copyrighted Lectures, Dissertations, Scientific Postulations, Philosophical Discourses, and Academic Studies, Diagrams, Illustrations, and Charts.
Claims use since Apr. 1, 1920.

Ser. No. 139,056. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. THEODORE SCHONDAU, El Paso, Tex. Filed Nov. 1, 1920.



No claim being made to the exclusive use of the words "Foot Powder" appearing on the drawing apart from the mark as shown.
Particular description of goods.—Foot-Powder.
Claims use since July 2, 1919.

Ser. No. 139,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACKSON F. SLOCUM, Peoria, Ill. Filed Nov. 4, 1920.



No claim is made to the words "Fancy Patent" and "Flour" apart from the other features of the mark shown on the drawing.
Particular description of goods.—Wheat-Flour.
Claims use since Mar. 1, 1914.

Ser. No. 139,176. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALFRED H. SMITH COMPANY, New York, N. Y. Filed Nov. 4, 1920.



The ornamentation on same being colored gold.
Particular description of goods.—Soaps.
Claims use since about Nov. 1, 1903.

Ser. No. 139,399. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWIN A. JACKSON & BRO., INCORPORATED, New York, N. Y. Filed Nov. 9, 1920.

JAXON BLAZE

Particular description of goods.—A Chemical Composition for Producing Colored Fire.
Claims use since Oct. 25, 1920.

Ser. No. 139,449. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BONO PRODUCTS CORPORATION, New York, N. Y. Filed Nov. 10, 1920.

BONO

Particular description of goods.—Insecticide, Disinfectant, and Deodorizer.
Claims use since June 1, 1918.

Ser. No. 139,451. (CLASS 39. CLOTHING.) CROFT-STANARD COMPANY, INC., Huntington, W. Va. Filed Nov. 10, 1920.



Particular description of goods.—Knit Union-Suits for Men and Women, Ladies' Vests, Men's Fine Shirts, Apparel-Belts, Sweater-Coats for Men, Hosiery for Men and Women.
Claims use since Jan. 15, 1914.

Ser. No. 139,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HORACE L. DAY COMPANY, New York, N. Y. Filed Nov. 10, 1920.

VASANOL

Particular description of goods.—Nasal Balm.
Claims use since Sept. 21, 1920.

Ser. No. 139,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KATHLEEN MARY QUINLAN, New York, N. Y. Filed Nov. 10, 1920.



The drawing lined to represent the colors gold and blue, as shown.
Particular description of goods.—Astringent, Astringent Cerates, Bleach-Creams, Beauty-Creams, Cold-Creams, Cleansing-Oils, Dry Rouges, Eyebrow and Eyelash Growers, Eye-Drops, Face-Bleaches, Face-Packs, Hair-Salves, Hand-Lotions, Hair Elixirs, Luxury Bath-Salts, Lip-Sticks, Obesity-Creams, Obesity-Astringents, Rusmas, Refreshing Creams, Rose Tints, Skin-Lotions, Shampoos, Talcum Powders, and Witch-Hazel Salves.
Claims use since March, 1910.

Ser. No. 139,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed Nov. 11, 1920.



Particular description of goods.—Crackers, Biscuits, and Cakes, Candy, Chocolates, Peanut-Bars, Fig-Bars, Cocoa, and Chocolate.
Claims use since 1914.

Ser. No. 139,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EMBEE COMPANY, New York, N. Y. Filed Nov. 11, 1920.



No claim being made to the words "New York" apart from the association shown.
Particular description of goods.—Face-Powders, Rouges, Lip-Sticks, Eyebrow-Pencils, Face-Creams, Perfumes; Manicure Articles, Such as Nail-Enamel, Nail-Bleach, Nail-White, Nail-Tint, Cuticle-Remover, Cuticle-Ice; Smelling-Salts.
Claims use since May 1, 1919.

Ser. No. 139,589. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920.



Particular description of goods.—Hair-Nets and Veils.
Claims use since Nov. 1, 1918.

Ser. No. 139,673. (CLASS 39. CLOTHING.) SAMUEL LANDAU, New York, N. Y. Filed Nov. 15, 1920.



"Petticoat" and "Trade Mark" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Ladies' Petticoats and Ladies' Bloomers.
Claims use since Nov. 1, 1919.

Ser. No. 139,715. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAJESTIC LACE AND EMBY. WORKS, New York, N. Y. Filed Nov. 16, 1920.



No claim being made to the exclusive use of the words "Laces of Royalty" apart from the mark as shown on the drawing.
Particular description of goods.—Laces and Embroideries in the Piece.
Claims use since Oct. 10, 1919.

Ser. No. 139,730. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) H. ADLER & BRO., New York, N. Y. Filed Nov. 17, 1920.

KORRECT HAIR BOW LENGTH

The words "Hair Bow" are only claimed in connection with the other features of the mark, as shown.
Particular description of goods.—Ribbons in Lengths.
Claims use since Nov. 1, 1920.

Ser. No. 139,868. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PILGRIM PICTURES COMPANY, Boston, Mass. Filed Nov. 19, 1920.



Particular description of goods.—Motion-Picture-Projecting Machine and Films Therefor.
Claims use since July 1, 1920.

Ser. No. 139,942. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920.

ELDORADO

Particular description of goods.—Colored Writing-Paper.
Claims use since 1903.

Ser. No. 140,020. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CYCO MEDICINE COMPANY, Chicago, Ill. Filed Nov. 23, 1920.



Particular description of goods.—Non-Alcoholic Ginger Cordial Containing Less than One-Half of One Per Cent. of Alcohol.
Claims use since Oct. 6, 1920.

Ser. No. 140,126. (CLASS 39. CLOTHING.) THE MUNSINGWEAR CORPORATION, Minneapolis, Minn. Filed Nov. 24, 1920.

MUNSING WEAR

Exclusive rights to the word "Wear" apart from the mark shown on the drawing are disclaimed.
Particular description of goods.—Hosiery and Underwear, Such Underwear Being of Knitted and Textile Fabric, in One, Two, and Three Piece Garments and for Men, Women, and Children.
Claims use since on or about July 1, 1919.

Ser. No. 140,127. (CLASS 39. CLOTHING.) THE MUNSINGWEAR CORPORATION, Minneapolis, Minn. Filed Nov. 24, 1920.

MUNSING WEAR

Exclusive rights to the word "Wear" apart from the mark shown on the drawing are disclaimed.
Particular description of goods.—Hosiery and Underwear, Such Underwear Being of Knitted and Textile Fabric, in One, Two, and Three Piece Garments and for Men, Women, and Children.
Claims use since on or about July 1, 1919.

Ser. No. 140,128. (CLASS 39. CLOTHING.) THE MUNSINGWEAR CORPORATION, Minneapolis, Minn. Filed Nov. 24, 1920.



Exclusive rights to the word "Wear" apart from the mark shown on the drawing are disclaimed.
Particular description of goods.—Hosiery and Underwear, Such Underwear Being of Knitted and Textile Fabric, in One, Two, and Three Piece Garments and for Men, Women, and Children.
Claims use since on or about July 1, 1919.

Ser. No. 140,187. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEMANN & CIE., Langnau, Bern, Switzerland. Filed Nov. 26, 1920.



The lines indicate colors. The trade-mark comprises a yellow background carrying a red diamond, a figure of a man in black, and the words "Le Laitier" and "Milkboy" in black.
Particular description of goods.—Cheese.
Claims use since 1870.

Ser. No. 140,236. (CLASS 39. CLOTHING.) IDA M. WEISERT, New York, N. Y. Filed Nov. 26, 1920.

Rita

Particular description of goods.—Dress-Protector in the Nature of a Bloomer-Apron.
Claims use since Nov. 2, 1920.

Ser. No. 140,258. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.



Particular description of goods.—Cambric Muslin in the Piece.
Claims use since 1906.

Ser. No. 140,281. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

KEARSARGE

Particular description of goods.—Canton-Flannel, Pillow-Tubing, and Cotton Duck in the Piece.
Claims use since 1892 on canton-flannel, since 1901 for cotton duck, and since 1912 for pillow-tubing.

Ser. No. 140,297. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

Baltic "C"

Particular description of goods.—Muslins in the Piece.
Claims use since 1910.

Ser. No. 140,298. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

CORONET

Particular description of goods.—Muslins in the Piece.
Claims use since 1905.

Ser. No. 140,302. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

WINNER

Particular description of goods.—Muslin in the Piece.
Claims use since 1905.

Ser. No. 140,490. (CLASS 11. INKS AND INKING MATERIALS.) CHAS. A. FOYER & COMPANY, Cleveland, Ohio. Filed Dec. 1, 1920.

ELDORADO BRAND

Applicant disclaims the right to the exclusive use of the word "Brand" apart from the mark as shown.
Particular description of goods.—Typewriter-Ribbons and Carbon-Paper.
Claims use since 1918.

Ser. No. 140,495. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEY-MILLER CO., Beaumont, Tex. Filed Dec. 1, 1920.



No claim is made to the reading-matter except the words "Kow Kud" apart from the mark shown on the drawing.
In the drawing the words "Jo-Mil" and "Kow Kud" are lined for red and the representations of the cow and the clouds are lined for blue, indicating a red and blue coloration, respectively.
Particular description of goods.—Dairy Feed.
Claims use since Oct. 1, 1920.

Ser. No. 140,565. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JARVIS AND JARVIS, Palmer, Mass. Filed Dec. 3, 1920.

J&J

Particular description of goods.—Service-Wagons or Hand-Pushcarts of the Type Used for Hotel Maid-Service, Dining-Room Service, Pastry-Tray Service, Paymasters' Service, Tea-Service, and Similar Purposes, Buffers, Bumpers, Wheels, Racks, Guard-Rails, and Frames Therefor.
Claims use since May 29, 1920.

Ser. No. 140,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAUFMAN-STRAUS CO., Louisville, Ky. Filed Dec. 6, 1920.

Estelle

Particular description of goods.—Perfumes, Toilet Waters, Skin Lotions and Creams, Lip-Pomades, Facial and Skin Powders.
Claims use since Nov. 30, 1905.

Ser. No. 140,707. (CLASS 39. CLOTHING.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif. Filed Dec. 7, 1920.

Sunkist

Particular description of goods.—Misses' and Children's Dresses.
Claims use since Nov. 19, 1920.

Ser. No. 140,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DEARBORN CHEMICAL COMPANY, Chicago, Ill. Filed Dec. 7, 1920.

Dearborn

The word "Dearborn" being in enlarged facsimile handwriting of William A. Converse, secretary of applicant corporation, associated with the representation of one of the original Fort Dearborn blockhouses.
Particular description of goods.—Boiler Compound for Prevention of Deleterious Action of Waters When Used in Steam-Boilers.
Claims use since Nov. 21, 1919.

Ser. No. 140,715. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADOLPH NELSON GAEBLER, St. Louis, Mo. Filed Dec. 7, 1920.

LACASSIA

Particular description of goods.—Toilet Preparations—Namely, Toilet Powders, Face-Creams, Face-Bleach, Perfume, Toilet Water, Nail-Polish, Eyelash and Eyebrow Grower, Bust-Developer, Hair-Balsam, Henna Powder, and Hair-Remover; Medicinal Preparations—Namely, Menthol Cream, Catarrh-Cream, Medicated Throat-Lozenges, Cold and Fever Tablets, Aspirin Tablets, Vegetable Liver-Tablets, Headache-Tablets, Tonic Tablets, Worm-Tablets, Bed-Wetting Tablets, Liver-Pills, Kidney and Bladder Tablets, Healing-Salve, Douche-Powder, Corn-Remover, Cough-Syrup, White-Oil Liniment, Life-Tonic; Hot-Drops for Cramps, Colic, &c.; Membrole for Sore Throat; Pain-Reliever for Cholera Morbus, &c.; Lung Elixir, Insect-Powder, Itch and Mange Oil for Man or Beast, Mustard Ointment, Spot-Remover, Rust-Spot Remover, Lice-Killer Nest-Eggs, Sugarlax, and Gall-Stone Tablets.
Claims use since Jan. 1, 1916.

Ser. No. 140,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. EDWARD HEALY, Brooklyn, N. Y. Filed Dec. 7, 1920.

NUMMOL

Particular description of goods.—A Local Anesthetic.
Claims use since Sept. 13, 1918.

Ser. No. 140,727. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. H. HUNSTOCK CHEMICAL CO., St. Louis, Mo. Filed Dec. 7, 1920.

El Rayo

Particular description of goods.—Insect-Powder for Destroying Insects, Such as Roaches, Fleas, Bedbugs, Flies, Mosquitos, Ants, Lice, Moths, &c.
Claims use since May 1, 1918.

Ser. No. 140,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL O. NUTT, Des Moines, Iowa. Filed Dec. 7, 1920.

MRP.NUTT'S

Particular description of goods.—Cathartic Pills.
Claims use since Nov. 15, 1916.

Ser. No. 140,749. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE W. T. RAWLEIGH COMPANY, Freeport, Ill. Filed Dec. 7, 1920.

TRE VERE

Particular description of goods.—Toilet Preparations—Namely, Face-Powder, Talcum Powder, Perfumes, Toilet Water, Rouge, Face-Creams, Tooth-Powder, and Tooth-Paste.
Claims use since Nov. 1, 1920.

Ser. No. 140,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES W. TREVERTON, Scranton, Pa. Filed Dec. 8, 1920.



Particular description of goods.—Antiseptic Healing Preparation for Open Sores and for Application to Mucous Membranes.
Claims use since Nov. 1, 1920.

Ser. No. 140,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUSTIN J. HOLLIDAY, Washington, D. C. Filed Dec. 9, 1920.

KETONOL

Particular description of goods.—A Medical Preparation for the Treatment of Colds, Influenza, Bronchitis, Neuralgia, and Rheumatism.
Claims use since Sept. 15, 1920.

Ser. No. 140,878. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALOYSIUS J. DOHERTY, Chicago, Ill. Filed Dec. 10, 1920.

MELOPINE

Particular description of goods.—Preparation for the Treatment of Coughs, Cold in Head, Catarrh, Irritation of Throat, Hoarseness, Bronchitis, and Influenza.
Claims use since Oct. 15, 1919.

Ser. No. 140,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCISCO TORRES MARTINEZ, Juana Diaz, Porto Rico. Filed Dec. 10, 1920.

ZELITA

Consists of the word "Zelita."
Particular description of goods.—A Cream to be Applied to the Skin for Removing Freckles and Spots.
Claims use since May, 1920.

Ser. No. 140,899. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) "P A C" LABORATORIES, Sioux City, Iowa. Filed Dec. 10, 1920.

"PAC"

Particular description of goods.—Non-Narcotic Capsules Used for Ailments Centering in the Trigeminal Nerve, Such as Headache, Earache, Neuralgia, Sciatica, or Lumbago.
Claims use since Jan. 1, 1920.

Ser. No. 140,914. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN N. COLE, San Francisco, Calif. Filed Dec. 11, 1920.

Nic-O-dent

Particular description of goods.—A Dentifrice.
Claims use since on or about Jan. 1, 1920.

Ser. No. 140,930. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. C. DEWITT CO. INC., Chicago, Ill. Filed Dec. 11, 1920.

DE WITT'S GOLDEN

Particular description of goods.—Preparation for Treatment of Bruises, Burns, Scalds, Cuts, and Inflammation.
Claims use since May, 1891.

Ser. No. 140,968. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN E. SCOFIELD, New York, N. Y. Filed Dec. 11, 1920.

WHITEX

Particular description of goods.—A Bluing for Wool and Silk.
Claims use since Sept. 1, 1920.

Ser. No. 140,969. (CLASS 38. PRINTS AND PUBLICATIONS.) U. S. BOTTLERS MACHINERY CO., Chicago, Ill. Filed Dec. 11, 1920.

BOTTLING AND PACKAGING ENGINEER

Particular description of goods.—A Monthly Journal.
Claims use since early in October, 1920.

Ser. No. 141,173. (CLASS 11. INKS AND INKING MATERIALS.) JAENECKE-AULT COMPANY, Newark, N. J. Filed Dec. 16, 1920.

Surprise

Particular description of goods.—Printing-Inks.
Claims use since Jan. 1, 1907.

Ser. No. 141,236. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MAASS & KEMPER, INCORPORATED, Baltimore, Md. Filed Dec. 17, 1920.

MERSER MAASS & KEMPER

Particular description of goods.—Notions Comprising Dress-Trimmings—Namely, Tassels, Cords, Rosebud Trimmings, Fringes, Middy-Laces, Braids, Tape, Emblem Sets, Ruchings, Ruffings, and Plaitings; Belting.
Claims use since Oct. 22, 1920.

Ser. No. 141,259. (CLASS 39. CLOTHING.) ARNOLD FUCHS, New York, N. Y. Filed Dec. 18, 1920.

Barbara Fritchie

Particular description of goods.—Corsets, Corset-Waists, Shirtwaists; Ladies' and Misses' Suits and Dresses, Cloaks, Aprons, Fabric Gloves, and Ladies', Misses', and Children's Hats and Bonnets, Petticoats, Nightgowns, Combination Corset-Cover and Drawers, Chemisettes, Corset-Covers; Children's Dresses and Petticoats; Women's, Misses', and Children's Wash-Suits, Pajamas, Middy-Blouses, Smocks, Dressing-Robes, Union-Suits; Ladies' Vests, Brassières, Bloomers, and Skirts; Infants' Dresses, and Children's Rompers, the Underwear and Union-Suits Being Made of Textile Materials and of Silk.
Claims use since Oct. 1, 1920.

Ser. No. 141,286. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM C. WHEELER, Oklahoma, Okla. Filed Dec. 18, 1920.

CHILDREN'S WELFARE MAGAZINE

Particular description of goods.—A Publication Published Monthly.
Claims use since June 7, 1919.

Ser. No. 141,353. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BROADWAY CYCLE CO., INC., Philadelphia, Pa. Filed Dec. 21, 1920.

Delphi

Particular description of goods.—Bicycles, Tricycles, Velocipedes, Motorcycles, and Parts Thereof.
Claims use since on or about Nov. 26, 1920.

Ser. No. 141,388. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PRIMALT PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 21, 1920.

Prima

Particular description of goods.—Ginger-Ale.
Claims use since July 1, 1919.

Ser. No. 141,391. (CLASS 39. CLOTHING.) MAURICE ROSENTHAL, San Francisco, Calif. Filed Dec. 21, 1920.

MAROSA

Particular description of goods.—Overalls and Overall-Suits, Jumpers, Play-Suits, and Rompers; Men's, Women's, and Children's Knit Underwear; Work and Dress Shirts, Men's and Boys' Wool Suits and Overcoats; Hosiery, Knit; Canvas and Leather Gloves, Hats; Shoes of Leather, Fabric, Rubber, and Combinations of the Same; Bath-Robes, Sweaters, Nightgowns and Pajamas, Aprons, and House-Dresses.
Claims use since Aug. 2, 1920.

Ser. No. 141,452. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y. Filed Dec. 23, 1920.

"TEXTICO EDGE"

Particular description of goods.—Cotton and Silk Fabric in the Piece and Strip Form and Cotton and Silk Fabric in the Piece and Strip Form for the Making of Typewriter-Ribbons.
Claims use since Nov. 1, 1920.

Ser. No. 141,531. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE METROPOLITAN BODY COMPANY, Bridgeport, Conn. Filed Dec. 27, 1920.

STANDARD TRUCK BODIES
THE METROPOLITAN BODY CO.

Applicant makes no claim to the exclusive use of the words "Standard Truck Bodies" apart from the mark as shown in the drawing.
Particular description of goods.—Truck-Bodies—Namely, Autotruck-Bodies.
Claims use since July, 1918.

Ser. No. 141,590. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD CO., Cambridge, Mass. Filed Dec. 28, 1920.

EDUCATOR

Particular description of goods.—Tea, Coffee, Canned Fruits, Canned Vegetables, Canned Soups, Prepared Mustard, Salad-Dressing, Spices; Condiments—Namely, Piccalilli, Tomato Catsup, Chilli Sauce, Horse-Radish, Tartar Sauce, Chow-Chow, Sweet and Sour Pickles; Olives, Olive-Oil, Vinegar, Macaroni, Butter, Eggs, Cheese, Wheat-Flour, Powdered Milk, Condensed Milk, Breakfast Cereals, Dried Fruits, Fruit Preserves, Marmalades, Gelatin, Maple-Syrup, Table-Syrup, Flavoring Extracts for Use in Preparing Foods, Bread, Plum-Pudding, Grated Cocoanut, Candy, Chewing-Gum; Popcorn, Popped and Candied, and Natural and Shelled Nuts.
Claims use since December, 1885.

Ser. No. 141,724. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KARP BROTHERS, INC., New York, N. Y. Filed Dec. 31, 1920.

RexSeal

Particular description of goods.—Hair-Nets of Human Hair.
Claims use since Apr. 16, 1914.

Ser. No. 141,852. (CLASS 39. CLOTHING.) THE BEACON FALLS RUBBER SHOE COMPANY, Beacon Falls, Conn. Filed Jan. 5, 1921.



Particular description of goods.—Hosiery.
Claims use since Mar. 1, 1920.

Ser. No. 141,874. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. PATRICK & CO., Duluth, Minn. Filed Jan. 5, 1921.

Northland

Particular description of goods.—Bureau-Scarfs, Table-Scarfs, Fabric Blankets, Textile Mats, and Piece Goods Made of Either of the Following Materials, Namely: Cotton and Wool.
Claims use since Jan. 1, 1912.

Ser. No. 141,935. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. STILLING-ANDERSEN, INC., New York, N. Y. Filed Jan. 7, 1921.

DANOVA

Consists of the word "Danova."
Particular description of goods.—Oleomargarin.
Claims use since Dec. 13, 1920.

Ser. No. 142,057. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN SOCIAL HYGIENE ASSOCIATION, INC., New York, N. Y. Filed Jan. 11, 1921.

The Social Hygiene Press

Particular description of goods.—Printed Booklets and Pamphlets.
Claims use since Nov. 24, 1920.

Ser. No. 142,061. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH ECKSTEIN, INC., New York, N. Y. Filed Jan. 11, 1921.

Shadowcord

Consisting of the word "Shadowcord."
Particular description of goods.—Woolen and Woolen and Silk Piece Goods.
Claims use since Dec. 1, 1920.

Ser. No. 142,302. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed Jan. 15, 1921.

Voile Delysia

Consisting of the words "Voile Delysia," no claim being made to the exclusive use of the word "Voile" apart from the mark as shown in the drawing.
Particular description of goods.—Voile Piece Goods.
Claims use since Jan. 6, 1921.

Ser. No. 142,472. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CHRISTOPHER CUNNINGHAM COMPANY, Brooklyn, N. Y. Filed Jan. 20, 1921.

Novelty Steam Boiler Works

No claim is made to the exclusive use of the words "Steam Boiler Works" apart from the word "Novelty."
Particular description of goods.—Steam-Boilers and Appurtenances Thereto—Namely, Marine and Stationary Steam-Boilers and Smokestacks.
Claims use since 1870.

Ser. No. 142,539. (CLASS 38. PRINTS AND PUBLICATIONS.) SHAPIRO, BERNSTEIN & CO. INC., New York, N. Y. Filed Jan. 20, 1921.

SHAPIRO BERNSTEIN & Co. Inc.

Particular description of goods.—Printed Musical Compositions.
Claims use since January, 1919.

Ser. No. 142,556. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DUWELL MANUFACTURING COMPANY, Worcester, Mass. Filed Jan. 21, 1921.

DUWELL

Particular description of goods.—Bench Grinding-Machines.
Claims use since Jan. 3, 1921.

Ser. No. 142,589. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. ELWOOD COX MFG. CO., High Point, N. C. Filed Jan. 22, 1921.

A

Particular description of goods.—Hardwood Dimension-Stock, Shuttle-Blocks, Bobbin-Heads, Dimension-Squares, Golf-Squares, Golf-Shafts, Picker-Sticks, Hand-Screws, and other Small Hickory Sticks Used in Cabinet-Shops, Cotton-Mills, and Similar Factories Requiring the Use of This Class of Goods.
Claims use since 1890.

Ser. No. 142,732. (CLASS 38. PRINTS AND PUBLICATIONS.) THE MEDICAL COUNCIL, Philadelphia, Pa. Filed Jan. 24, 1921.

THE AMERICAN PHYSICIAN

Particular description of goods.—A Publication Which is Published Monthly, Consisting of a Medical Journal.
Claims use since Dec. 17, 1920.

Ser. No. 142,745. (CLASS 37. PAPER AND STATIONERY.) THE BECK DUPLICATOR COMPANY, New York, N. Y. Filed Jan. 25, 1921.

BECKLOTH

Particular description of goods.—Duplicating-Rolls, Comprising a Cloth Base or Foundation and a Layer of Duplicating Material, as Gelatin.
Claims use since Nov. 22, 1920.

Ser. No. 142,794. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GUSTAVE LIDSEEN, Chicago, Ill. Filed Jan. 26, 1921.

GL

Particular description of goods.—Cutters for Phonograph-Needles and the Like.
Claims use since Nov. 1, 1920.

Ser. No. 142,803. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ORBIS PRODUCTS TRADING CO., INC., New York, N. Y. Filed Jan. 26, 1921.

O. P. T. CO. INC.

Particular description of goods.—Powdered Egg-Albumen and Powdered Egg-Yolk Alone and in Combination with Each Other.
Claims use since Oct. 22, 1918.

Ser. No. 142,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMILE BERLINER, Washington, D. C. Filed Jan. 28, 1921.

SWEET
GRENNS



Particular description of goods.—A Prepared Cereal Breakfast Food.
Claims use since Jan. 22, 1921.

Ser. No. 142,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUSTAV E. LINDBLOM, Dolgeville, N. Y. Filed Jan. 28, 1921.



No claim being made to the word "Bread."
Particular description of goods.—Bread.
Claims use since Oct. 1, 1919.

Ser. No. 142,908. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE REGAL SILVER MFG. CO., New Haven, Conn. Filed Jan. 28, 1921.



Particular description of goods.—Table Flat-Ware, Including Carving-Knives, Bread-Knives, Cheese-Knives, Butter-Knives, Butcher-Knives, Steels for Sharpening Knives, and Hunting-Knives, Made Wholly or Partly of Base Metal or Nickel or Partly Plated with Nickel or Made of Stainless Steel with Handles of Base Metal Plated or Unplated with Nickel or with Handles of Celluloid, Bone, or other Material Not Silver or Silver-Plated.
Claims use since 1912.

Ser. No. 142,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROWN MARGARIN COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

VEGACO

Particular description of goods.—Oleomargarin.
Claims use since Sept. 15, 1917.

Ser. No. 142,960. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROWN MARGARIN COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.

WHITE HOUSE

Particular description of goods.—Oleomargarin.
Claims use since June 1, 1918.

Ser. No. 143,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BROWNSVILLE CANNING CO., Corvallis, Oreg. Filed Feb. 1, 1921.

Glacierview

Particular description of goods.—Canned Fruits, Canned Berries, Canned Vegetables, Dried Fruit, and Fresh Deciduous Fruit.
Claims use since January, 1920.

Ser. No. 143,038. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CO-OPERATIVE CANNERIES, San Jose, Calif. Filed Feb. 1, 1921.

DEW-TASTE

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Sept. 1, 1920.

Ser. No. 143,040. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA FRUIT PRODUCTS CO., Los Angeles, Calif. Filed Feb. 1, 1921.



Particular description of goods.—Orange Marmalade and Orange Jelly.
Claims use since Mar. 6, 1920.

Ser. No. 143,041. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHMOND CHASE COMPANY, San Jose, Calif. Filed Feb. 1, 1921.

EVERYBODY'S

Particular description of goods.—Canned Fruits—Namely, Apricots, White Cherries, Royal Anne Cherries, Black Cherries, Muscat-Grapes, Yellow Free Peaches, Yellow Cling-Peaches, Sliced Yellow Cling-Peaches, Bartlett Pears, Egg-Plums, and Green-Gage Plums.
Claims use since May 9, 1920.

Ser. No. 143,047. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRAHAM-HENSHAW, Lancaster, Calif. Filed Feb. 1, 1921.



Particular description of goods.—Fresh Deciduous Fruit.
Claims use since Nov. 1, 1920.

Ser. No. 143,105. (CLASS 43. THREAD AND YARN.) L. STOCKMAN & SON, Brooklyn, N. Y. Filed Feb. 2, 1921.



The lining on the drawing representing red, and no claim being made to the exclusive use of the words "The Pride of All Yarns" apart from the mark as shown on the drawing.
Particular description of goods.—Wool, Cotton, and Silk Yarns.
Claims use since Nov. 29, 1920.

Ser. No. 143,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAGE & SHAW, INC., Cambridge, Mass. Filed Feb. 3, 1921. Under ten-year proviso.

PAGE & SHAW

Particular description of goods.—Chocolate, Cocoa Powder, and Cocoa-Butter.
Claims use since 1887.

Ser. No. 143,165. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GOULDS MANUFACTURING COMPANY, Seneca Falls, N. Y. Filed Feb. 4, 1921.

AUTOWATER

Particular description of goods.—Power-Driven Water-Supply Pumps.
Claims use since Mar. 8, 1920.

Ser. No. 143,185. (CLASS 38. PRINTS AND PUBLICATIONS.) ORANGE-CRUSH COMPANY, Chicago, Ill. Filed Feb. 4, 1921.

The CRUSHER

Particular description of goods.—Magazines Issued Monthly.
Claims use since October, 1920.

Ser. No. 143,211. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H. E. FREES COMPANY, Chicago, Ill. Filed Feb. 5, 1921.

HOPAROMA SYRUP

No claim is made to the exclusive use of the word "Syrup" apart from the mark shown in the drawing.
Particular description of goods.—Malt and Hop Syrup Used for Food Purposes.
Claims use since Dec. 15, 1920.

Ser. No. 143,247. (CLASS 38. PRINTS AND PUBLICATIONS.) ALDAN PUBLISHING COMPANY, INC., New York, N. Y. Filed Feb. 7, 1921.

THE SCREEN

Particular description of goods.—Magazines and Trade Publications Published Weekly.
Claims use since Feb. 2, 1921.

Ser. No. 143,249. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURNHAM-MUNGER-ROOT DRY GOODS COMPANY, Kansas City, Mo. Filed Feb. 7, 1921.



Particular description of goods.—Draperies in the Piece or Bolt.
Claims use since Dec. 7, 1920.

Ser. No. 143,258. (CLASS 37. PAPER AND STATIONERY.) THE CITIZENS WHOLESALE SUPPLY CO., Columbus, Ohio. Filed Feb. 7, 1921.



No claim is made for the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Filter-Papers, Paraffin-Wax Papers, and Toilet-Papers.
Claims use since Nov. 10, 1895.

Ser. No. 143,300. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. V. STOOM CHOCOLADE- & CACAOFABRIEK "KWATTA," Middenlaan, at Breda, Netherlands. Filed Feb. 7, 1921.

KWATTA

Particular description of goods.—Chocolate.
Claims use since on or about Aug. 25, 1908.

Ser. No. 143,315. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BELL PRODUCTS CO., Brooklyn, N. Y. Filed Feb. 8, 1921.



Particular description of goods.—Metal-Polish.
Claims use since about Sept. 1, 1920.

Ser. No. 143,334. (CLASS 38. PRINTS AND PUBLICATIONS.) ARMSTRONG CORK CO., Pittsburgh and Lancaster, Pa. Filed Feb. 9, 1921.

Shoe Talk

Particular description of goods.—Publications Issued Monthly.
Claims use since Jan. 1, 1921.

Ser. No. 143,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITALY COMMERCIAL CO., New York, N. Y. Filed Feb. 9, 1921.



Particular description of goods.—Salad-Oil.
Claims use since Nov. 2, 1920.

Ser. No. 143,371. (CLASS 38. PRINTS AND PUBLICATIONS.) JOSEPH A. VOGELMANN, Brooklyn, N. Y. Filed Feb. 9, 1921.

ULTRA
KNOWLEDGE GUIDE

Consisting of the words "Ultra Knowledge Guide."
Particular description of goods.—A Semi-Annual Publication.
Claims use since Jan. 22, 1921.

Ser. No. 143,384. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. DUNCAN COMPANY, Everett, Mass. Filed Feb. 10, 1921.

IDEAL

Particular description of goods.—Overhead-Tramway Switches.
Claims use since at least 1904.

Ser. No. 143,403. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RENNO PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 10, 1921.



The applicant hereby disclaims exclusive use of the words "100% Clean, For All Painted Surfaces, Trade Mark."
Particular description of goods.—A Preparation for Cleaning Painted, Enameled, Varnished, Stone, Marble, and other Surfaces.
Claims use since Jan. 15, 1920.

Ser. No. 143,427. (CLASS 38. PRINTS AND PUBLICATIONS.) COMMUNITY SERVICE (INCORPORATED), New York, N. Y. Filed Feb. 11, 1921.



The trade-mark is printed with a red border and a blue center, as indicated upon the drawing.
Particular description of goods.—Printed Pamphlets, Circulars, and Books.
Claims use since September, 1919.

Ser. No. 143,469. (CLASS 38. PRINTS AND PUBLICATIONS.) ASSOCIATION OF ARMY AND NAVY STORES, INC., New York, N. Y. Filed Feb. 12, 1921.

TODAY

Consisting of the word "Today."
Particular description of goods.—A Monthly Magazine or House Organ.
Claims use since Nov. 1, 1920.

Ser. No. 143,515. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE POST MANUFACTURING COMPANY, Kent, Ohio. Filed Feb. 12, 1921.



Particular description of goods.—Machinery for Manufacturing Concrete Products.
Claims use since about the middle of December, 1920.

Ser. No. 143,662. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 16, 1921.

"NOVA-FUR"

Consists of the word "Nova-Fur." No claim is made to the exclusive use of the word "Fur" except in connection with the mark shown.
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 18, 1921.

Ser. No. 143,683. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Feb. 17, 1921.

TROJAN

Particular description of goods.—Handkerchiefs
Claims use since Aug. 17, 1918.

Ser. No. 143,752. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRIEDMAN & KRIEGER, New York, N. Y. Filed Feb. 18, 1921.

KAYFAN

Particular description of goods.—Cotton and Silk Piece Goods and Combinations of the Same.
Claims use since July 1, 1920.

Ser. No. 143,759. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio. Filed Feb. 18, 1921.



No claim being made to the words "Staple" and "Brand" apart from the mark shown.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since Dec. 27, 1920.

Ser. No. 143,790. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STEVENS MANUFACTURING CO., Fall River, Mass. Filed Feb. 18, 1921.

STEVENS DURÉE

Particular description of goods.—Bedspreads.
Claims use since January, 1895.

Ser. No. 143,792. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 18, 1921.

PORTEX

Particular description of goods.—Typewriters.
Claims use since August, 1920.

Ser. No. 143,823. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANSEL S. LEO, New York, N. Y. Filed Feb. 19, 1921.

LUCKY STRIKE

Particular description of goods.—Wheat-Flour.
Claims use since 1916.

Ser. No. 143,850. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) B. & S. MANUFACTURING CO., Brooklyn, N. Y. Filed Feb. 21, 1921.



Particular description of goods.—Tire-Pumps and Grease-Guns.
Claims use since Jan. 27, 1921.

Ser. No. 143,857. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DUNN EDGE TOOL CO., Oakland, Me. Filed Feb. 21, 1921.

BLACK CHAMPION

Particular description of goods.—Scythes and Axes.
Claims use since about 1900.

Ser. No. 143,868. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. D. LINKER, Hope, Ark. Filed Feb. 21, 1921.

ONE-A-DAY

Particular description of goods.—Poultry Food.
Claims use since Jan. 15, 1921.

Ser. No. 143,881. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY MEUER, New York, N. Y. Filed Feb. 21, 1921.

Charma

Particular description of goods.—Hair-Nets.
Claims use since Feb. 15, 1921.

Ser. No. 143,882. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY MEUER, New York, N. Y. Filed Feb. 21, 1921.

Wanda

Particular description of goods.—Hair-Nets.
Claims use since about Feb. 15, 1921.

Ser. No. 143,900. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION TOOL COMPANY, Orange, Mass. Filed Feb. 21, 1921.

UNION

Particular description of goods.—Machinists' Small Tools—Namely, Steel Clamps, Hacksaw-Frames, Scribers, Screwdrivers, Nail-Sets, Center-Punches, and Tap-Wrenches.
Claims use since 1906.

Ser. No. 143,901. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WIEBUSCH & HILGER, LIMITED, New York, N. Y. Filed Feb. 21, 1921.

GYPSY

Particular description of goods.—Grass-Hooks.
Claims use since about 1910.

Ser. No. 143,904. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN HARD RUBBER COMPANY, New York, N. Y. Filed Feb. 23, 1921.

WALOHN

Particular description of goods.—Corset Bones and Stays.
Claims use since September, 1901.

Ser. No. 143,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE W. HARRINGTON, New York, N. Y. Filed Feb. 23, 1921.

HOP INN

Particular description of goods.—Molasses and Malt.
Claims use since Feb. 11, 1921.

Ser. No. 143,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUEHRMANN HAY & GRAIN CO., St. Louis, Mo. Filed Feb. 23, 1921.

JUDGE RITE

Particular description of goods.—Hen Feed and Horse and Mule Feed.
Claims use since about January, 1921.

Ser. No. 143,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUEHRMANN HAY & GRAIN CO., St. Louis, Mo. Filed Feb. 23, 1921.

JUDGE RITE

Particular description of goods.—Wheat-Flour.
Claims use since about January, 1921.

Ser. No. 144,039. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OVERSEAS MOTOR SERVICE CORPORATION, New York, N. Y. Filed Feb. 25, 1921.



Particular description of goods.—Accessory and Repair Devices and Parts for Automobiles, Motor-Driven Trucks, and Similar Self-Propelled Vehicles—Namely, Roller, Ball, and Similar Bearings, Hand-Operated Pumps, Power-Driven Pumps, Air-Compressors, Grease-Guns, Carbureters, and Primers.
Claims use since on or about June 1, 1919.

Ser. No. 144,091. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE A. A. KRAFT CO., Los Angeles, Calif. Filed Feb. 26, 1921.

Filmo

Particular description of goods.—Candy.
Claims use since Dec. 1, 1920.

Ser. No. 144,092. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKE HAMILTON CITRUS GROWERS ASSOCIATION, Lake Hamilton, Fla. Filed Feb. 26, 1921.

Hamiltonian

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Jan. 10, 1921.

Ser. No. 144,289. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. C. LAWRENCE LEATHER COMPANY, Boston, Mass. Filed Mar. 3, 1921.

BLACK DIAMOND

Particular description of goods.—Patent-Leather.
Claims use since Aug. 15, 1901.

Ser. No. 144,450. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURDOLAC FOOD CO., Waukesha, Wis. Filed Mar. 8, 1921.

CURDOLAC

Particular description of goods.—Diabetic Flour.
Claims use since Sept. 1, 1919.

Ser. No. 144,451. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR COMPANY, Denver and Eaton, Colo. Filed Mar. 8, 1921.

Topaz



The picture in the drawing being fanciful.
Particular description of goods.—Wheat-Flour.
Claims use since Jan. 1, 1921.

Ser. No. 144,549. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EUGENE T. TURNEY LABORATORIES, INCORPORATED, Holmes, N. Y. Filed Mar. 9, 1921.

SPIDER-WEB

Particular description of goods.—Inductance-Coils and Wireless Apparatus.
Claims use since about October, 1920.

Ser. No. 144,728. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HARRIS LEVY, Omaha, Nebr. Filed Mar. 14, 1921.

AK-SAR-BEN OAK

The word "Oak" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Sole-Leather.
Claims use since Nov. 1, 1920.

Ser. No. 145,167. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) INTERNATIONAL COAL & MINING CO., East St. Louis, Ill. Filed Mar. 24, 1921.

PARAMOUNT

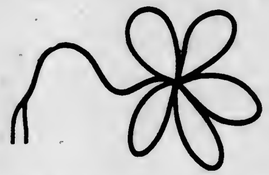
Particular description of goods.—Bituminous Coal.
Claims use since on or about Nov. 20, 1920.

Ser. No. 145,251. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del.; Philadelphia, Pa.; New York, N. Y.; Boston, Mass.; Rochester, N. Y.; Chicago, Ill., and St. Louis, Mo. Filed Mar. 26, 1921.

CHARMOOZ

Consists of the word "Charmooz."
Particular description of goods.—Leather.
Claims use since about Mar. 14, 1921.

Ser. No. 145,274. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. ADALINE KIBBY, Columbus, Ohio. Filed Mar. 26, 1921.



Particular description of goods.—A Salve for Treatment of Cancer, Old Sores, Eczema, Rheumatism, Neuritis, Lumbago, Spinal Meningitis, Pneumonia, and Typhoid Fever.
Claims use since Oct. 12, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 3, 1921.

141,822. AROMATIC BITTERS. C. W. ABBOTT & Co., INC., Baltimore, Md.
Filed July 20, 1920. Serial No. 135,197. PUBLISHED JANUARY 4, 1921.

141,823. LIGHTING AND HEATING PRODUCT OF THE ACETYLENE VARIETY WELL ADAPTED FOR EITHER ILLUMINATION, HEAT-WELDING, OR METAL-CUTTING PURPOSES. THE ACETYLENE SERVICE COMPANY, Denver, Colo.
Filed August 17, 1920. Serial No. 136,183. PUBLISHED DECEMBER 28, 1920.

141,824. TIRE CASINGS AND TUBES OF RUBBER. THE ACHILLES RUBBER AND TIRE COMPANY, INC., Binghamton, N. Y.
Filed September 27, 1920. Serial No. 137,653. PUBLISHED DECEMBER 21, 1920.

141,825. PRESERVES COMPRISING ROSE-PETALS, SUGAR, AND LEMON. ADAMS & MITCHELL, Oakland, Calif.
Filed October 29, 1919. Serial No. 124,326. PUBLISHED JANUARY 11, 1921.

141,826. CERTAIN NAMED ELECTRICAL APPLIANCES. THE ADAPTI COMPANY, Cleveland, Ohio.
Filed November 29, 1918. Serial No. 114,411. PUBLISHED APRIL 15, 1919.

141,827. CERTAIN NAMED BUILDING MATERIALS. AKTIENGESELLSCHAFT JOHANNES JESERICH, Charlottenburg, Germany.
Filed November 26, 1917. Serial No. 107,604. PUBLISHED DECEMBER 28, 1920.

141,828. DIACETONE ALCOHOL. ALCOHOL PRODUCTS COMPANY, Newark, N. J.
Filed August 3, 1920. Serial No. 135,742. PUBLISHED DECEMBER 28, 1920.

141,829. CERTAIN STEELS AND STEEL IN FORMS. EASTERBROOK ALLCARD & Co. LIMITED, Sheffield, England.
Filed August 23, 1920. Serial No. 136,365. PUBLISHED JANUARY 25, 1921.

141,830. TRACTORS AND MOTOR-DRAWN AND MOTOR-DRIVEN TILLING IMPLEMENTS AND PARTS THEREOF. S. L. ALLEN & Co., INC., Philadelphia, Pa.
Filed June 17, 1920. Serial No. 133,816. PUBLISHED JANUARY 11, 1921.

141,831. PENKNIVES, BUTCHER, TABLE, AND KITCHEN KNIVES. ALLEN CUTLERY COMPANY, Newburgh, N. Y.
Filed January 24, 1920. Serial No. 127,530. PUBLISHED DECEMBER 21, 1920.

141,832. TOILET WATER, TOILET POWDER, ALMOND-MEAL, AND PERFUMED AMMONIA FOR THE BATH AND TOILET. B. ALTMAN & Co., New York, N. Y.
Filed February 19, 1920. Serial No. 128,580. PUBLISHED DECEMBER 21, 1920.

141,833. LAMP-SHADES MADE OF ALUMINIUM. ALUMINIUM-WALZWERKE A.-G., Schaffhausen, Switzerland.
Filed October 26, 1920. Serial No. 138,803. PUBLISHED JANUARY 4, 1921.

141,834. EDIBLE VEGETABLE OIL. THE AMERICAN COTTON OIL COMPANY, Union township, Hudson county, N. J., and New York, N. Y.
Filed September 18, 1919. Serial No. 122,803. PUBLISHED MARCH 2, 1920.

141,835. ETHYL ALCOHOL. THE AMERICAN DISTILLING Co., Pekin and Chicago, Ill.
Filed March 31, 1920. Serial No. 130,404. PUBLISHED JANUARY 11, 1921.

141,836. ANTISEPTIC, DISINFECTANT, DEODORANT, AND PROPHYLACTIC FOR INTERNAL AND EXTERNAL USE. AMERICAN LABORATORIES INCORPORATED, Richmond, Va.
Filed June 26, 1920. Serial No. 134,230. PUBLISHED DECEMBER 28, 1920.

141,837. LEAD-PENCILS. AMERICAN LEAD PENCIL COMPANY, New York, N. Y.
Filed November 9, 1920. Serial No. 139,389. PUBLISHED DECEMBER 28, 1920.

141,838. SELF-PROPELLED VEHICLES—NAMELY, MOTOR-TRUCKS. THE AMERICAN MOTOR TRUCK COMPANY, Newark, Ohio.
Filed October 17, 1919. Serial No. 123,868. PUBLISHED JANUARY 11, 1921.

141,839. COASTERS IN THE NATURE OF A SMALL WAGON ON ROLLERS. AMERICAN NOVELTY Co., Lebanon, Pa.
Filed November 26, 1918. Serial No. 114,368. PUBLISHED SEPTEMBER 16, 1919.

141,840. CERTAIN OPHTHALMIC SUPPLIES AND OPTICAL INSTRUMENTS. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed August 23, 1920. Serial No. 136,352. PUBLISHED JANUARY 4, 1921.

141,841. CHEWING-GUM-DISPENSING MACHINES. AMERICAN POP CORN COMPANY, Sioux City, Iowa.
Filed August 2, 1920. Serial No. 135,688. PUBLISHED DECEMBER 28, 1920.

141,842. SOLUBLE CUTTING-OIL. AMERICAN REFINING COMPANY, Boston, Mass.
Filed October 13, 1919. Serial No. 123,723. PUBLISHED DECEMBER 28, 1920.

141,843. PLAIN AND GALVANIZED WOVEN-WIRE CONCRETE-REINFORCEMENT. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Hoboken, N. J.
Filed July 10, 1920. Serial No. 134,770. PUBLISHED JANUARY 4, 1921.

141,844. CANNED FRUITS. A. O. ANDERSEN & Co., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,533. PUBLISHED JANUARY 4, 1921.

141,845. PREPARATION FOR THE TREATMENT OF PYORRHEA. CHARLES W. ARCHER, Gary, Ind.
Filed August 16, 1920. Serial No. 136,147. PUBLISHED DECEMBER 28, 1920.

141,846. NINETY-FIVE PER CENT. (95%) WHEAT-FLOUR. HENRY J. ARNOLD, Sterling, Kans.
Filed July 10, 1916. Serial No. 96,452. PUBLISHED FEBRUARY 24, 1920.

141,847. HYDRAULIC PUMPS AND PARTS THEREOF. ASHWELL & NESBIT LTD., Barkby Lane, Leicester, England.
Filed August 3, 1920. Serial No. 135,760½. PUBLISHED DECEMBER 28, 1920.

141,848. MEAT FOOD PRODUCT COMPOSED OF BEEF, PORK, AND CEREAL. ARMSTRONG PACKING COMPANY, Dallas, Tex.
Filed April 17, 1920. Serial No. 131,248. PUBLISHED JANUARY 11, 1921.

141,849. COTTON PIECE GOODS OF ALL KINDS. ARMSTRONG, SAGAR & CO., Manchester, England.
Filed August 31, 1920. Serial No. 136,661. PUBLISHED JANUARY 4, 1921.

141,850. VELOCIPEDES. ATKINSON MILL & MANUFACTURING COMPANY, Oakland, Calif.
Filed May 12, 1920. Serial No. 132,340. PUBLISHED OCTOBER 26, 1920.

141,851. CANDY. D. AUERBACH & SONS, New York, N. Y.
Filed August 3, 1917. Serial No. 105,448. PUBLISHED JANUARY 4, 1921.

141,852. CERTAIN AGRICULTURAL IMPLEMENTS. B. F. AVERY & SONS, Louisville, Ky.
Filed July 19, 1920. Serial No. 135,123. PUBLISHED DECEMBER 28, 1920.

141,853. SPARK-PLUGS. JOSEPH RENE AYOTTE, Chicago, Ill.
Filed December 5, 1918. Serial No. 114,497. PUBLISHED DECEMBER 21, 1920.

141,854. CERTAIN STEELS. ARTHUR BALFOUR & COMPANY LIMITED, Sheffield, England.
Filed November 2, 1920. Serial No. 139,073. PUBLISHED DECEMBER 28, 1920.

141,855. DOUGHNUTS, PASTRY GOODS, AND SANDWICHES. ELMER L. BALLEW, Chicago, Ill.
Filed June 28, 1920. Serial No. 134,294. PUBLISHED DECEMBER 28, 1920.

141,856. CERTAIN NAMED CONSTRUCTION MATERIALS. EDWIN BANCROFT, Oklahoma, Okla., assignor to Petri-Glazo Company, Chicago, Ill., a Corporation of Illinois.
Filed June 19, 1920. Serial No. 133,908. PUBLISHED DECEMBER 28, 1920.

141,857. STORE-FIXTURES—NAMELY, ARTIFICIAL FORMS MADE OF PAPIER-MÂCHÉ AND WAX. THE BARLOW-KIMNET CO., New York, N. Y.
Filed August 4, 1919. Serial No. 121,232. PUBLISHED DECEMBER 28, 1920.

141,858. BITUMINOUS PAINT. THE BARRETT COMPANY, New York, N. Y.
Filed May 28, 1919. Serial No. 118,985. PUBLISHED APRIL 13, 1920.

141,859. STOCK FEED. BARRETT, DENTON & LYNN CO., Dalton, Ga.
Filed March 25, 1920. Serial No. 130,155. PUBLISHED JANUARY 4, 1921.

141,860. BEERS, NEAR BEERS, PORTER, STOUT, AND ALES. THE BARTELS BREWING COMPANY, Edwardsville borough, Pa.
Filed April 12, 1920. Serial No. 131,009. PUBLISHED JANUARY 4, 1921.

141,861. BEERS, NEAR BEERS, PORTER, STOUT, AND ALES. THE BARTELS BREWING COMPANY, Edwardsville borough, Pa.
Filed April 12, 1920. Serial No. 131,010. PUBLISHED JANUARY 4, 1921.

141,862. BEERS, NEAR BEERS, PORTER, STOUT, AND ALES. THE BARTELS BREWING COMPANY, Edwardsville borough, Pa.
Filed May 15, 1920. Serial No. 132,461. PUBLISHED JANUARY 4, 1921.

141,863. BEERS, NEAR BEERS, PORTER, STOUT, AND ALES. THE BARTELS BREWING COMPANY, Edwardsville borough, Pa.
Filed May 15, 1920. Serial No. 132,462. PUBLISHED JANUARY 4, 1921.

141,864. LEATHER-DRESSING. BASLE COMPANY, Boston, Mass.
Filed September 20, 1919. Serial No. 122,931. PUBLISHED FEBRUARY 1, 1921.

141,865. TOOTH-POWDER AND TOOTH-PASTE. FRED M. BEATY, Liberal, Kans.
Filed October 25, 1919. Serial No. 124,163. PUBLISHED JANUARY 4, 1921.

141,866. WALL, FLOOR, AND CEILING TILES FOR INTERIOR AND EXTERIOR PURPOSES. BEAVER FALLS ART TILE CO., Beaver Falls, Pa.
Filed October 5, 1920. Serial No. 137,915. PUBLISHED JANUARY 4, 1921.

141,867. CERTAIN NAMED PHARMACEUTICAL PREPARATION. HART O. BERG, New York, N. Y.
Filed December 12, 1918. Serial No. 114,610½. PUBLISHED DECEMBER 28, 1920.

141,868. RUST-RESISTING ANTICORROSIVE IRON AND IRON, STEEL, AND ALLOY-STEEL METAL SHEETS. THE BERGER MANUFACTURING COMPANY, Canton, Ohio.
Filed May 14, 1919. Serial No. 118,459. PUBLISHED DECEMBER 21, 1920.

141,869. FELTS AND PIECE GOODS OF WOOL OR OF PART WOOL. EDWARD H. BEST & CO. INCORPORATED, Portland, Me., and Boston, Mass.
Filed November 1, 1919. Serial No. 124,433. PUBLISHED FEBRUARY 1, 1921.

141,870. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. BIANCHINI, FÉRIER, Lyon, France.
Filed August 17, 1920. Serial No. 136,191. PUBLISHED DECEMBER 28, 1920.

141,871. THERMOSTATS. THE BISHOP & BABCOCK COMPANY, Cleveland, Ohio.
Filed September 18, 1919. Serial No. 122,820. PUBLISHED DECEMBER 21, 1920.

141,872. MOUTH-WASH. FRANK G. BLAND, Clarksburg, W. Va.
Filed August 18, 1920. Serial No. 136,229. PUBLISHED DECEMBER 28, 1920.

141,873. TEAS AND COFFEES. THE BLYTH TEA COMPANY, Cincinnati, Ohio.
Filed April 20, 1920. Serial No. 131,378. PUBLISHED JANUARY 4, 1921.

141,874. SAWS. H. BOKER & CO. INC., New York, N. Y.
Filed September 26, 1919. Serial No. 123,154. PUBLISHED DECEMBER 28, 1920.

141,875. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed July 7, 1920. Serial No. 134,626. PUBLISHED JANUARY 11, 1921.

141,876. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTUAING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed July 7, 1920. Serial No. 134,627. PUBLISHED JANUARY 11, 1921.

141,877. COIN-PAYING MACHINES. BRANDT MANUFACTURING COMPANY, Watertown, Wis.
Filed November 3, 1920. Serial No. 139,105. PUBLISHED DECEMBER 28, 1920.

141,878. CARBURETERS. BRISCOE DEVICES COMPANY, Pontiac, Mich., assignor, by mesne assignments, to Briscoe Devices Corporation, Pontiac, Mich., a Corporation of Michigan.
Filed September 10, 1920. Serial No. 137,028. PUBLISHED DECEMBER 21, 1920.

141,879. MEDICINAL TABLETS FOR STOMACH AILS. MAURICE BRODY, Roxbury and Boston, Mass.
Filed September 4, 1919. Serial No. 122,279. PUBLISHED JANUARY 11, 1921.

141,880. BELT-BUCKLES MADE OF BASE METAL. SAMUEL BUCHSBAUM, Chicago, Ill.
Filed June 24, 1920. Serial No. 134,106. PUBLISHED DECEMBER 28, 1920.

141,881. COMPLEXION-CREAM. BUFFINGTON'S INCORPORATED, Worcester, Mass.
Filed August 5, 1920. Serial No. 135,799. PUBLISHED DECEMBER 28, 1920.

141,882. TOILET SOAPS. FRANK GAIUS BURKE, New York, N. Y.
Filed December 24, 1919. Serial No. 126,410. PUBLISHED DECEMBER 21, 1920.

141,883. ALMONDS IN THEIR NATURAL STATE. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif.
Filed January 29, 1920. Serial No. 127,713. PUBLISHED JANUARY 4, 1921.

141,884. PERIODICAL PUBLICATION PUBLISHED WEEKLY. FLORENCE J. CAMPBELL, Los Angeles, Calif.
Filed September 9, 1920. Serial No. 136,972. PUBLISHED JANUARY 4, 1921.

141,885. FRESH FRUIT. CARDWELL & WAGGONER, Yakima, Wash.
Filed October 20, 1920. Serial No. 138,538. PUBLISHED JANUARY 4, 1921.

141,886. LIQUID PREPARATION FOR THE TREATMENT OF THE HAIR AND SCALP. EFFIE MAY CARROLL, San Diego, Calif.
Filed July 19, 1920. Serial No. 135,133. PUBLISHED DECEMBER 28, 1920.

141,887. MEDICINAL COMPOUND FOR THE TREATMENT OF TUBERCULOSIS. CAWTHORNE TUBERCULAR TREATMENT, INC., Nashville, Tenn.
Filed Sept. 18, 1919. Serial No. 122,825. PUBLISHED DECEMBER 21, 1920.

141,888. CONFECTION CONSISTING OF POPCORN, PEANUTS, MOLASSES, AND SUGAR. THE D. L. CLARK COMPANY, Pittsburgh, Pa.
Filed April 9, 1920. Serial No. 130,882. PUBLISHED JANUARY 11, 1921.

141,889. DYESTUFFS AND CHEMICALS USED IN DYEING AND BLEACHING. CENTRAL DYESTUFF & CHEMICAL CO., Newark, N. J.
Filed June 28, 1920. Serial No. 134,304. PUBLISHED DECEMBER 28, 1920.

141,890. MECHANICAL TOYS. JOHN A. CHAPPUIS, La Chaux-de-Fonds, Switzerland.
Filed May 18, 1920. Serial No. 132,592. PUBLISHED NOVEMBER 2, 1920.

141,891. LEATHER BELTING. CHICAGO BELTING COMPANY, Chicago, Ill.
Filed August 6, 1920. Serial No. 135,842. PUBLISHED FEBRUARY 1, 1921.

141,892. LEATHER BELTING. CHICAGO BELTING COMPANY, Chicago, Ill.
Filed September 20, 1920. Serial No. 137,361. PUBLISHED DECEMBER 21, 1920.

141,893. LEATHER BELTING. CHICAGO BELTING COMPANY, Chicago, Ill.
Filed October 16, 1920. Serial No. 138,374. PUBLISHED DECEMBER 21, 1920.

141,894. LEATHER BELTING. CHICAGO BELTING COMPANY, Chicago, Ill.
Filed October 29, 1920. Serial No. 138,942. PUBLISHED JANUARY 25, 1921.

141,895. CERTAIN NAMED NOTIONS. CHINA PALACE COMPANY, INC., El Paso, Tex.
Filed July 1, 1920. Serial No. 134,456. PUBLISHED JANUARY 11, 1921.

141,896. SOIL FOOD. MIKLOS CHUPKA, Johnstown, Pa.
Filed November 18, 1920. Serial No. 139,786. PUBLISHED JANUARY 4, 1921.

141,897. MOTOR-OILS. H. EARL CLACK COMPANY, Havre, Mont.
Filed December 30, 1919. Serial No. 126,626. PUBLISHED MARCH 2, 1920.

141,898. FEEDING ATTACHMENT FOR USE WITH ORDINARY PENS. CHARLES F. CLARKE, Madison, Wis.
Filed March 11, 1920. Serial No. 129,536. PUBLISHED MAY 18, 1920.

141,899. HAND-NEEDLES. A. L. CLARK & CO. INC., New York, N. Y.
Filed June 19, 1920. Serial No. 133,914. PUBLISHED DECEMBER 28, 1920.

141,900. PREPARED COCOA POWDER. THE COCOA PRODUCTS CO., Holland, Mich.
Filed March 10, 1919. Serial No. 116,436. PUBLISHED JANUARY 4, 1921.

141,901. CERTAIN NAMED CONSTRUCTION MATERIALS. COLE MANUFACTURING COMPANY, a Corporation, Memphis, Tenn.
Filed June 23, 1919. Serial No. 119,848. PUBLISHED DECEMBER 28, 1920.

141,902. PAINTS, VARNISHES, PUTTY, WOOD-FILLERS, WOOD-STAINS, FLOOR-WAX, PAINT-OILS, WALL-SIZING, AND CALCIMINE. COLONIAL WORKS, Brooklyn, N. Y.
Filed August 23, 1919. Serial No. 121,922. PUBLISHED APRIL 6, 1920.

141,903. PASTE PAINTS. COLONIAL WORKS, Brooklyn, N. Y.
Filed August 23, 1919. Serial No. 121,924. PUBLISHED NOVEMBER 25, 1919.

141,904. CHEMICAL COMPOUND INTRODUCED INTO BOILER-WATER TO PREVENT SCALES AND CORROSION. CLARENCE E. COLLINS, St. Louis, Mo.
Filed June 26, 1920. Serial No. 134,234. PUBLISHED DECEMBER 28, 1920.

141,905. SACKS OR BAGS MADE OF PAPER. CONTINENTAL PAPER BAG CO., New York, N. Y.
Filed April 7, 1920. Serial No. 130,751. PUBLISHED NOVEMBER 2, 1920.

141,906. PHONOGRAPHS. MOSES F. FYBUSH, Los Angeles, Calif.
Filed August 6, 1919. Serial No. 121,298. PUBLISHED APRIL 13, 1920.

141,907. HAIR-TONIC. DANIEL P. COOPER, Groveton, Tex.
Filed July 30, 1920. Serial No. 135,591. PUBLISHED DECEMBER 28, 1920.

141,908. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER. B. A. CORBIN & SON CO., Boston, Mass.
Filed October 13, 1919. Serial No. 123,728. PUBLISHED JANUARY 4, 1921.

141,909. GENERAL DISINFECTANT. CORONA CHEMICAL COMPANY, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania.
Filed October 23, 1920. Serial No. 138,708. PUBLISHED JANUARY 4, 1921.

141,910. BOLL-WEEVIL SPRAY. COTTON INDUSTRIAL CORPORATION, New York, N. Y., and Albany, Ga.
Filed July 30, 1920. Serial No. 135,594. PUBLISHED DECEMBER 28, 1920.

141,911. CERTAIN TOOLS. THE CRESCENT COMPANY, Meriden, Conn.
Filed June 7, 1919. Serial No. 119,291. PUBLISHED NOVEMBER 25, 1919.

141,912. CERTAIN RECEPTACLES. THE CRONKHITE COMPANY, (now by change of name Cronkhite Chemical Corporation,) Boston, Mass.
Filed January 12, 1920. Serial No. 127,041. PUBLISHED NOVEMBER 16, 1920.

141,913. GERMICIDE. ROBERT LATTA CROWE, Memphis, Tenn.
Filed February 17, 1920. Serial No. 128,488. PUBLISHED DECEMBER 21, 1920.

141,914. CANDY. CROWN CONFECTIONERY COMPANY, Jacksonville, Fla.
Filed August 25, 1920. Serial No. 136,459. PUBLISHED JANUARY 4, 1921.

141,915. MANUFACTURED FUEL MADE FROM GARBAGE AND COMBUSTIBLE WASTE, COAL-DUST, AND CHEMICALS. EDGAR L. CULVER, Washington, D. C.
Filed March 11, 1920. Serial No. 129,539. PUBLISHED DECEMBER 28, 1920.

141,916. PASTE FOR MASSAGING THE GUMS. EDWARD CURETON, Stockton, Calif.
Filed July 7, 1920. Serial No. 134,636. PUBLISHED JANUARY 11, 1921.

141,917. TRACTION-CHAINS AND ANTISKID-CHAINS. DAUBENSPECK CHAIN COMPANY, Butler, Pa.
Filed August 10, 1920. Serial No. 135,966. PUBLISHED JANUARY 11, 1921.

141,918. LENSES FOR AUTOMOBILE-HEADLIGHTS. THE DAY-NITE CORPORATION, Carson City, Nev., and San Francisco, Calif.
Filed August 7, 1918. Serial No. 112,600. PUBLISHED FEBRUARY 10, 1920.

141,919. JOWL-BACON SQUARES. JACOB E. DECKER & SONS, Mason City, Iowa.
Filed September 11, 1920. Serial No. 137,070. PUBLISHED JANUARY 4, 1921.

141,920. BACON, SAUSAGES, AND PICKLED PIGS' FEET IN JARS. JACOB E. DECKER & SONS, Mason City, Iowa.
Filed September 11, 1920. Serial No. 137,074. PUBLISHED JANUARY 4, 1921.

141,921. FELT INITIAL-FILLERS FOR EMBROIDERY. DIAMOND FELT INITIAL CO. INC., New York, N. Y.
Filed June 26, 1920. Serial No. 134,242. PUBLISHED DECEMBER 28, 1920.

141,922. SAWMILL-HOGS. DIAMOND IRON WORKS, Minneapolis, Minn.
Filed October 4, 1919. Serial No. 123,431. PUBLISHED JANUARY 4, 1921.

141,923. SYRUP FOR TABLE AND FOOD-FLAVORING. ROBERT D. DONOHO, Los Angeles, Calif.
Filed May 5, 1920. Serial No. 132,042. PUBLISHED JANUARY 11, 1921.

141,924. MOTION-PICTURE FILMS. WILLIAM P. DORETY, Los Angeles, Calif.
Filed May 25, 1920. Serial No. 132,917. PUBLISHED JANUARY 11, 1921.

141,925. DOUCHE IN TABLET FORM. DOUCHETTS PRODUCT COMPANY, Cleveland, Ohio.
Filed August 11, 1920. Serial No. 135,989. PUBLISHED JANUARY 11, 1921.

141,926. CERTAIN NAMED MEDICINAL PREPARATIONS. JAS. W. DOUTHITT, Bedford, Ind.
Filed August 6, 1920. Serial No. 135,847. PUBLISHED DECEMBER 28, 1920.

141,927. PLOW SHARES OR SCRAPES. G. P. DOWLING HARDWARE CO., Ozark, Ala.
Filed August 28, 1916. Serial No. 97,658. PUBLISHED JANUARY 4, 1921.

141,928. CERTAIN NAMED MEDICINAL PREPARATION. THE J. W. DUFFEE MFG. CO., Washington Court-House, Ohio.
Filed November 22, 1919. Serial No. 125,174. PUBLISHED DECEMBER 21, 1920.

141,929. READY-MIXED PAINTS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed July 10, 1919. Serial No. 120,411. PUBLISHED JULY 27, 1920.

141,930. CERTAIN NAMED FOODS. W. H. DYER COMPANY, Evansville, Ind.
Filed February 25, 1919. Serial No. 116,129. PUBLISHED JANUARY 13, 1920.

141,931. PILE-OINTMENT. EAGLE OINTMENT COMPANY, Kansas City, Mo.
Filed April 20, 1920. Serial No. 131,385. PUBLISHED JANUARY 11, 1921.

141,932. PHOTOGRAPHIC FILM. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 18, 1919. Serial No. 126,210. PUBLISHED JANUARY 4, 1921.

141,933. CYCLES AND MOTORCYCLES. THE ELSWICK-HOPPER CYCLE & MOTOR COMPANY LIMITED, Barton-upon-Humber, England.
Filed July 8, 1920. Serial No. 134,704. PUBLISHED DECEMBER 28, 1920.

141,934. TEA. ENDWAR COMPANY LIMITED, London, England.
Filed September 23, 1920. Serial No. 137,520. PUBLISHED JANUARY 4, 1921.

141,935. CERTAIN NAMED ELECTRICAL PORCELAIN ARTICLES. THE FEDERAL PORCELAIN COMPANY, Carey, Ohio.
Filed March 3, 1919. Serial No. 116,255. PUBLISHED JANUARY 11, 1921.

141,936. ELECTRIC MOTORS, GENERATORS, CONVERTERS, AND OTHER NAMED ELECTRICAL MACHINERY. THE FIDELITY ELECTRIC COMPANY, Lancaster, Pa.
Filed September 13, 1920. Serial No. 137,118. PUBLISHED OCTOBER 26, 1920.

141,937. LIQUID PREPARATION FOR THE TREATMENT OF CATARRH AND COLDS. CHARLES K. FIEDLER, Pasadena, Calif.
Filed August 5, 1920. Serial No. 135,808. PUBLISHED JANUARY 4, 1921.

141,938. CERTAIN AUXILIARY POWER-TRANSMITTING SHAFTS FOR AUTOMOBILES. C. H. FOLTMER, Wray, Colo.
Filed August 9, 1920. Serial No. 135,921. PUBLISHED JANUARY 11, 1921.

141,939. MEN'S AND BOYS' CLOTHING—NAMELY, COATS, VESTS, AND PANTS. JOSEPH B. FRACTMAN, Wichita, Kans.
Filed June 1, 1920. Serial No. 133,162. PUBLISHED JANUARY 4, 1921.

141,940. SKIN-LOTION. ARTHUR O. FREEDMAN, Boston, Mass.
Filed August 7, 1920. Serial No. 135,885. PUBLISHED DECEMBER 28, 1920.

141,941. BREAKFAST FOOD COMPRISING A COMBINATION OF CEREALS AND FRUITS. FRUITED CEREAL COMPANY, Dover, Del., and Quincy, Ill.
Filed October 18, 1920. Serial No. 138,438. PUBLISHED JANUARY 25, 1921.

141,942. POLISH FOR FURNITURE, AUTOMOBILE-BODIES, FLOORS, WOODWORK, AND THE LIKE. THE GEM HAMMOCK & FLY NET COMPANY, Milwaukee, Wis.
Filed August 21, 1920. Serial No. 136,328. PUBLISHED JANUARY 4, 1921.

141,943. BOND-PAPER FOR WRITING AND PRINTING PURPOSES. GILBERT PAPER CO., Menasha, Wis.
Filed October 30, 1920. Serial No. 138,987. PUBLISHED DECEMBER 28, 1920.

141,944. HOSIERY. JOHN M. GIVEN, INC., Pittsburgh, Pa., New York, N. Y., and Chicago, Ill.
Filed October 15, 1919. Serial No. 123,802. PUBLISHED JANUARY 20, 1920.

141,945. OVERALLS, APRONS, COMBINATION WORK-SUITS, WORK-SHIRTS, CHILDREN'S PLAY-SUITS, MEN'S COATS, AND WORK-SUITS. LEO W. GOLDSTONE, Oakland, Calif.
Filed August 24, 1920. Serial No. 136,408. PUBLISHED JANUARY 11, 1921.

141,946. PNEUMATIC TIRES AND TUBES. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 9, 1920. Serial No. 138,124. PUBLISHED DECEMBER 21, 1920.

141,947. LADIES' FURNISHINGS—NAMELY, LADIES' SILK UNDERWEAR, LADIES' MUSLIN UNDERWEAR, BOUDOIR-CAPS, CORSETS, AND CORSET-COVERS. GOTHAM MERCHANDISE COMPANY, New York, N. Y.
Filed November 4, 1920. Serial No. 139,155. PUBLISHED FEBRUARY 8, 1921.

141,948. [WITHDRAWN.]

141,949. DENTIFRICE—NAMELY, TOOTH-PASTE. WILLIAM TYLER GREEN, Summit, N. J.
Filed June 28, 1920. Serial No. 134,309. PUBLISHED JANUARY 11, 1921.

141,950. SALVE FOR DRAWING AND HEALING BOILS, FELONS, ABSCESSES, AND SPLINTERS. EPHRAIM GREENBAUM, New York, N. Y.
Filed June 26, 1920. Serial No. 134,249. PUBLISHED JANUARY 4, 1921.

141,951. OINTMENT USED FOR THE TREATMENT OF TIRED AND SORE FEET. AUGUST GROSS, Chicago, Ill.
Filed June 8, 1918. Serial No. 111,434. PUBLISHED DECEMBER 28, 1920.

141,952. CERTAIN NAMED BUILDING MATERIALS. GYPSOS CORPORATION, Indianapolis, Ind.
Filed July 14, 1920. Serial No. 134,951. PUBLISHED NOVEMBER 30, 1920.

141,953. CERTAIN NAMED MEDICINAL PREPARATION. DR. T. J. HAILE & CO., Fitzgerald, Ga.
Filed October 16, 1919. Serial No. 123,853. PUBLISHED FEBRUARY 24, 1920.

141,954. COFFEE. THE E. C. HARLEY COMPANY, Dayton, Ohio.
Filed February 3, 1920. Serial No. 127,915. PUBLISHED APRIL 13, 1920.

141,955. CERTAIN ARTICLES OF CLOTHING. HARRIS, FRIEDMAN & COMPANY, Scranton, Pa.
Filed March 19, 1920. Serial No. 129,929. PUBLISHED NOVEMBER 23, 1920.

141,956. LIVER-PILLS. HARRINGTON BROTHERS, Marianna, Ark.
Filed August 9, 1920. Serial No. 135,927. PUBLISHED DECEMBER 28, 1920.

141,957. CERTAIN MECHANICS' TOOLS. THE HARROLD TOOL & FORGE CO., Columbiana, Ohio.
Filed October 16, 1919. Serial No. 123,854. PUBLISHED JANUARY 4, 1921.

141,958. COTTON PIECE GOODS AND COTTON MIXTURES IN THE PIECE. HECHT, MENDES & MANDEL, New York, N. Y.
Filed August 7, 1919. Serial No. 121,338. PUBLISHED FEBRUARY 10, 1920.

141,959. PIECE GOODS CONSISTING OF VELVET CLOTH AND VELVETEEN CLOTH. WILLIAM A. HEDEMAN, New York, N. Y.
Filed August 19, 1920. Serial No. 136,265. PUBLISHED DECEMBER 28, 1920.

141,960. INTERIOR AND EXTERIOR BUILDING PLASTER AND CEMENT. HARRY K. HEDGES, Los Angeles, Calif.
Filed February 17, 1919. Serial No. 116,087. PUBLISHED DECEMBER 28, 1920.

141,961. CERTAIN NAMED MEDICINE FOR THE RESPIRATORY ORGANS. PHIL HERBERT, Houston, Tex.
Filed February 2, 1920. Serial No. 127,858. PUBLISHED DECEMBER 21, 1920.

141,962. CERTAIN NAMED MEDICINAL PREPARATION. JOHN L. HERPICH, Columbus, Ohio.
Filed August 3, 1920. Serial No. 135,753. PUBLISHED DECEMBER 28, 1920.

141,963. NON-ALCOHOLIC, NON-INTOXICATING, NON-CEREAL, MALTLESS BEVERAGES SOLD AS A SOFT DRINK. JOHN G. F. HIEBER, Spokane, Wash.
Filed April 27, 1920. Serial No. 131,704. PUBLISHED JANUARY 4, 1921.

141,964. HOSIERY. HIGGINBOTHAM-BAILEY-LOGAN COMPANY, INC., Dallas, Tex.
Filed July 2, 1920. Serial No. 134,512. PUBLISHED JANUARY 4, 1921.

141,965. MEDICINAL PREPARATION FOR INDIGESTION, DYSPEPSIA, AND STOMACH AND LIVER COMPLAINTS. WILLIAM GEORGE HOLLEY, Fort Wayne, Ind.
Filed June 19, 1920. Serial No. 133,921. PUBLISHED JANUARY 4, 1921.

141,966. BLUING. W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y.
Filed March 27, 1920. Serial No. 130,274. PUBLISHED JANUARY 11, 1921.

141,967. GLASS GLOBES AND REFLECTORS FOR ARTIFICIAL LIGHT. HOLOPHANE GLASS COMPANY, INC., New York, N. Y.
Filed March 6, 1919. Serial No. 116,338. PUBLISHED JANUARY 11, 1921.

141,968. GLASS GLOBES AND REFLECTORS FOR ARTIFICIAL LIGHT. HOLOPHANE GLASS COMPANY, INC., New York N. Y.
Filed March 6, 1919. Serial No. 116,336. PUBLISHED JANUARY 11, 1921.

141,969. MEDICINAL SALVE FOR CERTAIN NAMED PURPOSES. GYÖRGY HORZSA, New York, N. Y.
Filed November 4, 1919. Serial No. 124,523. PUBLISHED DECEMBER 21, 1920.

141,970. FACE-CREAM, FACE-POWDER, AND TALCUM. HOWARD BROS. CHEMICAL CO., Buffalo, N. Y.
Filed December 1, 1919. Serial No. 125,463. PUBLISHED DECEMBER 21, 1920.

141,971. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. FRANK H. HOYT, Sharon, Pa.
Filed February 3, 1920. Serial No. 127,917. PUBLISHED DECEMBER 21, 1920.

141,972. MEDICINE FOR THE TREATMENT OF ECZEMA. A. HUDSON & SONS, Kokomo, Ind.
Filed August 5, 1920. Serial No. 135,812. PUBLISHED DECEMBER 28, 1920.

141,973. HEALING-CREAM FOR PILES, SKIN ERUPTIONS, SORES, CUTS, BURNS, AND CHAPPED SKIN. ELLA HULL, Idaho Springs, Colo.
Filed February 27, 1920. Serial No. 128,965. PUBLISHED JANUARY 11, 1921.

141,974. HAIR-DYE. NATHAN HURWITZ, New York, N. Y.
Filed August 7, 1920. Serial No. 135,889. PUBLISHED DECEMBER 28, 1920.

141,975. CERTAIN NAMED TOILET PREPARATIONS. IDEAL LABORATORIES COMPANY, Chicago, Ill.
Filed August 23, 1920. Serial No. 136,372. PUBLISHED JANUARY 4, 1921.

141,976. CERTAIN NAMED TOILET PREPARATIONS. IDEAL LABORATORIES COMPANY, Chicago, Ill.
Filed August 23, 1920. Serial No. 136,373. PUBLISHED JANUARY 4, 1921.

141,977. INSECTICIDES AND GERMICIDES. INTERSTATE CHEMICAL COMPANY, Jersey City, N. J.
Filed July 24, 1920. Serial No. 135,440. PUBLISHED JANUARY 11, 1921.

141,978. COTTON, WOOL, SILK, OR MIXTURE PIECE GOODS. INTERNATIONAL CLEARING HOUSE, INC., New York, N. Y.
Filed September 2, 1920. Serial No. 136,753. PUBLISHED JANUARY 4, 1921.

141,979. CLOSURES FOR BOTTLES AND THE LIKE. INTERNATIONAL CORK COMPANY, Brooklyn, N. Y.
Filed September 5, 1919. Serial No. 122,359. PUBLISHED DECEMBER 21, 1920.

141,980. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. THE C. E. ISING CORPORATION, New York, N. Y.
Filed March 5, 1920. Serial No. 129,261. PUBLISHED DECEMBER 21, 1920.

141,981. CERTAIN NAMED FLOURS, CORNMEAL, AND CHICKEN FEED. ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed July 28, 1919. Serial No. 120,994. PUBLISHED JANUARY 11, 1921.

141,982. LAUNDRY-BAGS. JENCKES SPINNING COMPANY, Pawtucket, R. I.
Filed March 3, 1920. Serial No. 129,177. PUBLISHED NOVEMBER 23, 1920.

141,983. PASTRIES, CAKES, AND DOUGHNUTS, AND MINCE-MEAT. LE ROY J. JOHNSON, Logansport, Ind.
Filed June 29, 1920. Serial No. 134,369. PUBLISHED DECEMBER 28, 1920.

141,984. READY-MIXED FIRE-RESISTING PAINTS, SHINGLE-STAINS. GEORGE F. JOHNSTON, Fort Dodge, Iowa, assignor to Pyro-Non Paint Co. Inc., New York, N. Y., a Corporation of Delaware.
Filed October 23, 1918. Serial No. 113,861. PUBLISHED APRIL 6, 1920.

141,985. CERTAIN NAMED MEDICINAL PREPARATION. ROBERT T. JONES, Martins Ferry, Ohio.
Filed August 5, 1920. Serial No. 135,814. PUBLISHED DECEMBER 28, 1920.

141,986. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE KAY & ESS COMPANY, Dayton, Ohio.
Filed August 19, 1920. Serial No. 136,268. PUBLISHED JANUARY 4, 1921.

141,987. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE KAY & ESS COMPANY, Dayton, Ohio.
Filed August 19, 1920. Serial No. 136,269. PUBLISHED JANUARY 4, 1921.

141,988. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE KAY & ESS COMPANY, Dayton, Ohio.
Filed August 19, 1920. Serial No. 136,270. PUBLISHED JANUARY 4, 1921.

141,989. COTTON PIECE GOODS. KELSEY TEXTILE CORPORATION, New York, N. Y.
Filed August 24, 1920. Serial No. 136,420. PUBLISHED JANUARY 4, 1921.

141,990. INCINERATORS. KERNER INCINERATOR COMPANY, Milwaukee, Wis.
Filed August 9, 1920. Serial No. 135,933. PUBLISHED JANUARY 11, 1921.

141,991. REAMERS, TAPS, DIES, AND MILLING-CUTTERS. KEYSTONE REAMER & TOOL COMPANY, Millersburg, Pa.
Filed September 22, 1919. Serial No. 122,988. PUBLISHED JANUARY 11, 1921.

141,992. CERTAIN NAMED MEDICINAL PREPARATION. OLLEE B. H. KHAN, Chicago, Ill.
Filed August 23, 1920. Serial No. 136,375. PUBLISHED DECEMBER 28, 1920.

141,993. BEVERAGE CONTAINING MALT, HOPS, AND CEREALS. KIEWEL BREWING COMPANY, Crookston, Minn.
Filed September 3, 1919. Serial No. 122,256. PUBLISHED JANUARY 4, 1921.

141,994. KOSHER SCOURING-POWDER. KIRKMAN & SON, Brooklyn, N. Y.
Filed September 14, 1920. Serial No. 137,176. PUBLISHED DECEMBER 21, 1920.

141,995. MAGAZINE ISSUED MONTHLY. THE KIWANIS CLUB, INTERNATIONAL, Chicago, Ill.
Filed June 18, 1920. Serial No. 133,883. PUBLISHED JANUARY 4, 1921.

141,996. LEATHER AND CANVAS BELTING AND MACHINERY PACKING. KLATSCHER & LORENZ, INC., New York, N. Y.
Filed July 14, 1920. Serial No. 134,961. PUBLISHED JANUARY 11, 1921.

141,997. MEDICINE-CONTAINING CAPSULES FOR VAGINAL TREATMENT. DAYE LEE KNIGHT, Kansas City, Mo.
Filed March 26, 1920. Serial No. 130,224. PUBLISHED DECEMBER 21, 1920.

141,998. MILK AND BUTTER AGITATORS. KRE-MO BUTTER AGITATOR COMPANY, Wheeling, W. Va.
Filed September 29, 1919. Serial No. 123,248. PUBLISHED DECEMBER 21, 1920.

141,999. HIDES AND LEATHER. KULLMAN, SALZ & CO., San Francisco, Calif.
Filed March 14, 1919. Serial No. 116,577. PUBLISHED DECEMBER 21, 1920.

142,000. FIRE-BRICKS AND FIRE-TILE. LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo.
Filed July 26, 1919. Serial No. 120,964. PUBLISHED JANUARY 4, 1921.

142,001. SKIN-LOTION. THE LANG DRUG CO., Seattle, Wash.
Filed May 3, 1920. Serial No. 131,976. PUBLISHED JANUARY 11, 1921.

142,002. HAIR-TONIC. JOHN LANGER, Quakertown, Pa.
Filed August 21, 1920. Serial No. 136,330. PUBLISHED DECEMBER 28, 1920.

142,003. WHEAT-FLOUR. THE LABABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo.
Filed June 7, 1920. Serial No. 133,367. PUBLISHED JANUARY 11, 1921.

142,004. THROWN SILK. R. K. LAROS SILK CO., Bethlehem, Pa.
Filed August 3, 1920. Serial No. 135,758. PUBLISHED DECEMBER 28, 1920.

142,005. MALTLESS BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME, SOLD AS A SOFT DRINK. LASH'S PRODUCTS CO., Chicago, Ill.
Filed June 24, 1920. Serial No. 134,130. PUBLISHED DECEMBER 28, 1920.

142,006. INSECTICIDE. LEBRO MANUFACTURING CO., Pittsburgh, Pa.
Filed July 13, 1920. Serial No. 134,901. PUBLISHED JANUARY 4, 1921.

142,007. SILK, COTTON, SILK AND COTTON MIXED PIECE GOODS AND EMBROIDERED AND WOVEN PIECE GOODS. HERBERT B. LEDERER CO., New York, N. Y., assignor to Herbert B. Lederer Co. Inc., New York, N. Y., a Corporation of New York.
Filed August 22, 1919. Serial No. 121,906. PUBLISHED FEBRUARY 10, 1920.

142,008. EVAPORATED MILK. THEODORE C. LEEDOM, Toledo, Ohio, and Oil City, Pa.
Filed May 14, 1919. Serial No. 118,478. PUBLISHED AUGUST 5, 1919.

142,009. MOUTH-WASH. W. WALTER LEVIS, Chicago, Ill.
Filed August 4, 1920. Serial No. 135,790. PUBLISHED DECEMBER 28, 1920.

142,010. FERTILIZER. THE CHAS. H. LILLY CO., Seattle, Wash.
Filed October 26, 1920. Serial No. 138,813. PUBLISHED DECEMBER 21, 1920.

142,011. CLAY COMPOUND FOR EXTERNAL APPLICATION FOR VARIOUS AILMENTS. ALFRED W. LOWAIE, Hartford, Conn.
Filed May 22, 1920. Serial No. 132,795. PUBLISHED FEBRUARY 1, 1921.

142,012. PERFUME, SACHET, FACE-POWDER, ROUGE, AND TOILET WATER. ADOLF D. LINDEMANN, New York, N. Y.
Filed January 29, 1920. Serial No. 127,732. PUBLISHED DECEMBER 21, 1920.

142,013. FERTILIZERS. JACOB G. LIPMAN, New Brunswick, N. J.
Filed May 8, 1920. Serial No. 132,187. PUBLISHED JANUARY 11, 1921.

142,014. LADIES', MEN'S, AND CHILDREN'S GLOVES AND UNDERWEAR AND MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. LORRAINE HOSIERY CO., New York, N. Y.
Filed April 26, 1920. Serial No. 131,641. PUBLISHED JANUARY 4, 1921.

142,015. CRACKERS, CAKES, CANDIES. THE J. H. MACKALL CO., Pittsburgh, Pa.
Filed July 24, 1920. Serial No. 135,380. PUBLISHED DECEMBER 28, 1920.

142,016. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. EDGAR E. MALONE, Cason, Tex.
Filed April 17, 1920. Serial No. 131,277. PUBLISHED JANUARY 4, 1921.

142,017. CHILDREN'S SLEDS AND COASTER-WAGONS. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed July 16, 1919. Serial No. 120,617. PUBLISHED SEPTEMBER 28, 1920.

142,018. LIQUID EYE MEDICINE. MARVEL EYE MEDICINE CO., New York, N. Y.
Filed August 6, 1920. Serial No. 135,859. PUBLISHED DECEMBER 28, 1920.

142,019. CERTAIN NAMED ACOUSTIC APPLIANCES. MAZER ACOUSTILE COMPANY, Philadelphia, Pa.
Filed May 9, 1919. Serial No. 118,315. PUBLISHED MAY 25, 1920.

142,020. RUBBER BICYCLE-TIRES. MEAD CYCLE COMPANY, Chicago, Ill.
Filed February 19, 1919. Serial No. 116,000. PUBLISHED JANUARY 4, 1921.

142,021. PROPHYLACTIC AND IODIN PREPARATIONS FOR EXTERNAL USE. MENLEY & JAMES LIMITED, New York, N. Y.
Filed November 28, 1919. Serial No. 125,396. PUBLISHED DECEMBER 21, 1920.

142,022. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF COUGHS, COLDS, BRONCHITIS, AND GRIPPE. HORACE R. MERCK, Asheville, N. C.
Filed June 28, 1920. Serial No. 134,320. PUBLISHED JANUARY 11, 1921.

142,023. HYDRASTIS AND IRON COMPOUND TONIC. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,482. PUBLISHED JANUARY 4, 1921.

142,024. SOLUTION OF HYDRASTIN. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,483. PUBLISHED JANUARY 11, 1921.

142,025. FEMALE-TONIC. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,486. PUBLISHED JANUARY 4, 1921.

142,026. ANTISEPTIC, STIMULANT, AND ALTERATIVE IN THE TREATMENT OF DISORDERED CONDITIONS OF THE UTERUS AND VAGINA. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,491. PUBLISHED JANUARY 4, 1921.

142,027. CHOCOLATE SYRUP OF QUININ FOR THE PALATABLE ADMINISTRATION OF QUININ. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,498. PUBLISHED DECEMBER 28, 1920.

142,028. LIQUID COMPOUND OF FORMALDEHYDE AND OTHER ANTISEPTIC AND DEODORANT INGREDIENTS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,500. PUBLISHED DECEMBER 28, 1920.

142,029. BISMUTH COMPOUND USED IN DIARRHEA OR VARIOUS INTESTINAL DISORDERS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,501. PUBLISHED JANUARY 4, 1921.

142,030. SYRUP USED IN ACUTE AND CHRONIC BRONCHITIS AND COUGHS AND COLDS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,502. PUBLISHED DECEMBER 28, 1920.

142,031. SODIUM AND LITHIUM COMPOUND SALT USED AS A LAXATIVE, CATHARTIC, AND CHOLAGOGUE. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,504. PUBLISHED DECEMBER 28, 1920.

142,032. ANTISEPTIC VAGINAL SUPPOSITORIES USED IN VAGINAL AND UTERINE DISORDERS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,505. PUBLISHED DECEMBER 28, 1920.

142,033. CASCARA AND CHIONANTHUS COMPOUND USED AS AN HEPATIC LAXATIVE. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,506. PUBLISHED DECEMBER 28, 1920.

142,034. CORDIAL EXTRACT (PASSIFLORA INCARNATA) USED IN NERVOUSNESS, SLEEPLESSNESS, NEURALGIA, &c. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,507. PUBLISHED DECEMBER 28, 1920.

142,035. CAPSULES OF ERGOTIN AND APIOL USED AS AN EMMENAGOGUE. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,508. PUBLISHED DECEMBER 28, 1920.

142,036. TABLETS FOR LOCAL VAGINAL AND UTERINE ANTISEPSIS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,509. PUBLISHED DECEMBER 28, 1920.

142,037. CORN-SILK AND SAW-PALMETTO COMPOUND USED IN URINARY AND KIDNEY DISORDERS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,510. PUBLISHED DECEMBER 28, 1920.

142,038. CALISAYA AND PEPSIN COMPOUND USED IN ACUTE AND CHRONIC INDIGESTION AND AS A TONIC. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,511. PUBLISHED DECEMBER 28, 1920.

142,039. CASTOR-OIL, EMULSIFIED. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,512. PUBLISHED DECEMBER 28, 1920.

142,040. CASTANEA COMPOUND FOR USE IN COUGHS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,514. PUBLISHED DECEMBER 28, 1920.

142,041. WHEAT-FLOUR. MIESENHELDER BROS., Palestine, Ill.
Filed August 30, 1919. Serial No. 122,179. PUBLISHED DECEMBER 28, 1920.

142,042. HAIRPINS. J. A. MIGEL, INC., New York, N. Y.
Filed March 3, 1920. Serial No. 129,183. PUBLISHED JANUARY 11, 1921.

142,043. NON-ALCOHOLIC, MALTLESS BEVERAGE MADE OUT OF FLAVORED AND COLORED SUGAR-SYRUP. HOWARD P. MILLER, Cincinnati, Ohio.
Filed May 7, 1920. Serial No. 132,143. PUBLISHED JANUARY 11, 1921.

142,044. SHOES FOR WOMEN, MISSES, AND CHILDREN. I. MILLER AND SONS, INC., Brooklyn, N. Y.
Filed September 10, 1920. Serial No. 137,039. PUBLISHED JANUARY 4, 1921.

142,045. CERTAIN NAMED TEXTILE PIECE GOODS. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed August 19, 1920. Serial No. 136,273. PUBLISHED DECEMBER 28, 1920.

142,046. CERTAIN NAMED TEXTILE PIECE GOODS. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed August 19, 1920. Serial No. 136,275. PUBLISHED DECEMBER 28, 1920.

142,047. CERTAIN NAMED TEXTILE PIECE GOODS. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed August 19, 1920. Serial No. 136,276. PUBLISHED DECEMBER 28, 1920.

142,048. CERTAIN NAMED TEXTILE PIECE GOODS. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed August 19, 1920. Serial No. 136,277. PUBLISHED DECEMBER 28, 1920.

142,049. PREVENTION OF EXCESSIVE PERSPIRATION. LOUISE MILLER, West Somerville, Mass.
Filed August 20, 1920. Serial No. 136,302. PUBLISHED DECEMBER 28, 1920.

142,050. SOAP. REYNHOLD MILLER, Las Vegas, Nev.
Filed October 16, 1920. Serial No. 138,400. PUBLISHED DECEMBER 21, 1920.

142,051. CERTAIN PAINTS AND PAINTERS' MATERIALS. WESLEY L. MILLER, Toledo, Ohio.
Filed November 15, 1919. Serial No. 124,944. PUBLISHED JANUARY 4, 1921.

142,052. CANDIES, ICE-CREAM, AND PASTRY. MAY MILLS, St. Paul, Minn.
Filed June 7, 1920. Serial No. 133,369. PUBLISHED JANUARY 11, 1921.

142,053. SIDE CARS, FORE CARS, AND TRAILER-CARS FOR MOTORCYCLES AND CYCLES. MILLS-FULFORD LTD., Coventry, England.
Filed July 19, 1920. Serial No. 135,159. PUBLISHED JANUARY 11, 1921.

142,054. LEATHER. MISSISSIPPI VALLEY TANNING CO., St. Louis, Mo.
Filed September 29, 1920. Serial No. 137,742. PUBLISHED DECEMBER 21, 1920.

142,055. PUMPS AND PUMPING PLANTS AND PARTS THEREOF. MONARCH FOUNDRY COMPANY, Stockton, Calif.
Filed November 10, 1919. Serial No. 124,723. PUBLISHED JANUARY 4, 1921.

142,056. INFANTS' AND CHILDREN'S WHITE DRESSES, UNDERGARMENTS, PRINCESS-SLIPS, NIGHTGOWNS, AND GERTRUDES. MONSHEIMER AND JACOBS, New York, N. Y.
Filed September 8, 1920. Serial No. 136,949. PUBLISHED DECEMBER 21, 1920.

142,057. OINTMENT FOR THE TREATMENT AND REMOVAL OF CORNS AND CALLOUS FLESH. ROSE MOYSEN, New York, N. Y.
Filed July 9, 1920. Serial No. 134,751. PUBLISHED JANUARY 4, 1921.

142,058. LIQUID PREPARATION FOR HEALING PUNCTURES AND CLOSING HOLES IN PNEUMATIC TIRES. MUNDIAL TRADING CO. INC., New York, N. Y.
Filed April 3, 1920. Serial No. 130,608. PUBLISHED JANUARY 4, 1921.

142,059. DRESS-SHIELDS. SAMUEL K. NASCHEK, New York, N. Y.
Filed October 29, 1919. Serial No. 124,312. PUBLISHED DECEMBER 28, 1920.

142,060. WALL-BOARD AND ROOFING IN ROLLS AND ROOFING READY CUT FOR DIRECT APPLICATION. C. A. NASH & SON, INC., Norfolk, Va.
Filed August 25, 1920. Serial No. 136,486. PUBLISHED JANUARY 4, 1921.

142,061. SELF-RISING WHEAT-FLOUR. NASHVILLE ROLLER MILLS, Nashville, Tenn.
Filed September 24, 1920. Serial No. 137,588. PUBLISHED JANUARY 4, 1921.

142,062. PRINTED BOOKS, PAMPHLETS, AND CIRCULARS. NATIONAL AUTOMOBILE DEALERS ASS'N, Chicago, Ill. and St. Louis, Mo.
Filed December 1, 1919. Serial No. 125,470. PUBLISHED JANUARY 4, 1921.

142,063. RING-TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed June 18, 1920. Serial No. 133,887. PUBLISHED DECEMBER 28, 1920.

142,064. CERTAIN NAMED ADHESIVES, COMPOUNDS, AND CEMENTS. THE NATIONAL RUBBER & SPECIALTIES CO., Cincinnati, Ohio.
Filed July 2, 1920. Serial No. 134,520. PUBLISHED JANUARY 25, 1921.

142,065. TIRE TUBINGS AND CASINGS MADE OF RUBBER. THE NATIONAL SALES COMPANY, Chicago, Ill., assignors to J. W. Sutherland, of Chicago, Ill.
Filed September 28, 1920. Serial No. 137,707. PUBLISHED DECEMBER 21, 1920.

142,066. CERTAIN NAMED INNER LINERS, TUBES, BOOTS, PATCHES, AND FLAPS. THE NATIONAL SALES COMPANY, Memphis, Tenn.
Filed October 11, 1919. Serial No. 123,706. PUBLISHED DECEMBER 21, 1920.

142,067. CLEANSER FOR AUTOMOBILES, PIANOS, FURNITURE, BRASS, NICKELWARE, GLASS, AND SILVERWARE. THE NATURE POLISH COMPANY, INC., Seattle, Wash.
Filed October 7, 1920. Serial No. 138,059. PUBLISHED DECEMBER 21, 1920.

142,068. CHOCOLATE PEANUT-CANDY CONFECTION. MAANS N. NELIN, Rockford, Ill.
Filed April 21, 1919. Serial No. 117,684. PUBLISHED FEBRUARY 10, 1920.

142,069. DRY, PASTE, AND READY-MIXED PAINTS AND VARNISHES. NEW ORLEANS PAINT & COLOR COMPANY, INC., New Orleans, La.
Filed July 24, 1920. Serial No. 135,382. PUBLISHED DECEMBER 28, 1920.

142,070. SAFETY-PINS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed August 13, 1920. Serial No. 136,086. PUBLISHED JANUARY 4, 1921.

142,071. CERTAIN NAMED FOODS. NICHOLAS NIGRO, Dallas, Tex.
Filed October 5, 1920. Serial No. 137,958. PUBLISHED DECEMBER 28, 1920.

142,072. CONDIMENTS, PARTICULARLY CHOW-CHOW, MUSTARD, AND TABLE SAUCE. NORTHERN PICKLE COMPANY, Tacoma, Wash.
Filed September 13, 1920. Serial No. 137,139. PUBLISHED JANUARY 4, 1921.

142,073. CERTAIN LUBRICATING OILS AND GREASES. NORTHWESTERN OIL COMPANY, Fargo, N. D.
Filed July 24, 1920. Serial No. 135,383. PUBLISHED JANUARY 11, 1921.

142,074. ENGRAVED, EMBOSSED, AND PRINTED SOCIETY AND BUSINESS STATIONERY. NU-WAY PRINTING & ENGRAVING SHOP, St. Louis, Mo.
Filed June 28, 1920. Serial No. 134,323. PUBLISHED DECEMBER 28, 1920.

142,075. MINERAL AND AERATED WATERS, NATURAL AND ARTIFICIAL, INCLUDING GINGER-BEER. O'BRIEN & Co., Dublin, Ireland.
Filed August 19, 1920. Serial No. 136,280. PUBLISHED JANUARY 11, 1921.

142,076. WINES. O'BRIEN & Co., Dublin, Ireland.
Filed August 19, 1920. Serial No. 136,281. PUBLISHED JANUARY 11, 1921.

142,077. DYSPEPSIA TREATMENT IN TABLET OR POWDER FORM. WALTER J. OGAR, Dorchester, Mass.
Filed August 20, 1920. Serial No. 136,308. PUBLISHED DECEMBER 28, 1920.

142,078. UNDERSHIRTS, UNION-SUITS, DRAWERS, NIGHT-RORES, AND PAJAMAS. OPPENHEIM, OBERNDORF AND COMPANY INC., Baltimore, Md.
Filed August 22, 1918. Serial No. 112,835. PUBLISHED DECEMBER 21, 1920.

142,079. UNDERSHIRTS, UNION-SUITS, DRAWERS, NIGHT-ROBES, AND PAJAMAS. OPPENHEIM, OBERNDORF AND COMPANY INC., Baltimore, Md.
Filed August 22, 1918. Serial No. 112,836. PUBLISHED DECEMBER 21, 1920.

142,080. STRAW-HAT DYE. THE OWL DRUG COMPANY, San Francisco, Calif.
Filed August 12, 1920. Serial No. 136,035. PUBLISHED DECEMBER 28, 1920.

142,081. ELECTROTYPES, STEREOTYPES, AND MATRICES. PARTRIDGE AND ANDERSON COMPANY, Chicago, Ill.
Filed February 14, 1920. Serial No. 128,403. PUBLISHED DECEMBER 21, 1920.

142,082. SHAMPOO. THE E. L. PATCH CO., Stoneham, Mass.
Filed August 20, 1920. Serial No. 136,309. PUBLISHED DECEMBER 28, 1920.

142,083. CERTAIN NAMED HOSIERY. F. A. PATRICK & Co., Duluth, Minn.
Filed October 19, 1920. Serial No. 138,515. PUBLISHED FEBRUARY 1, 1921.

142,084. LADIES' OUTER GARMENTS—VIZ., COATS, SUITS, DRESSES, SKIRTS, CLOAKS, WAISTS, AND BLOUSES. PECK & Co., New York, N. Y.
Filed December 24, 1918. Serial No. 114,813. PUBLISHED AUGUST 5, 1919.

142,085. BATH-ROBES AND BATHING-SUITS. PELTON & PELTON, Chicago, Ill.
Filed September 13, 1920. Serial 137,143. PUBLISHED JANUARY 4, 1921.

142,086. PITCH, ROSINS, AND TAR. PENNSYLVANIA REFINING COMPANY, Philadelphia, Pa.
Filed June 1, 1920. Serial No. 133,163. PUBLISHED JANUARY 25, 1921.

142,087. BENZOL, TOLUOL, XYLOL, NAPHTHALENE, AND PHENOL. PEOPLES GAS BY-PRODUCTS CORPORATION, Chicago, Ill.
Filed April 5, 1920. Serial No. 130,687. PUBLISHED JANUARY 11, 1921.

142,088. INSECTICIDES FOR KILLING INSECTS ON POULTRY AND OTHER FEATHERED CREATURES. WM. PETERMAN INC., Passaic, N. J., and New York, N. Y.
Filed June 19, 1920. Serial No. 133,932. PUBLISHED JANUARY 4, 1921.

142,089. SWEETMEATS. GENEVIEVE PFEFFER, San Jose, Calif.
Filed August 26, 1920. Serial No. 136,580. PUBLISHED JANUARY 4, 1921.

142,090. CERTAIN NAMED CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. CHAS. PFIZER & Co., INC., New York, N. Y.
Filed November 28, 1919. Serial No. 125,403. PUBLISHED DECEMBER 28, 1920.

142,091. STOVES, RANGES, AND FURNACES BURNING COAL, GAS, OR WOOD. PHILLIPS & CLARK STOVE CO., INC., Geneva, N. Y.
Filed July 16, 1920. Serial No. 135,059. PUBLISHED DECEMBER 28, 1920.

142,092. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, OR FABRIC. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed August 16, 1920. Serial No. 136,166. PUBLISHED JANUARY 11, 1921.

142,093. REMEDY FOR BOILS, CARBUNCLES, ABSCESSES, GATHERED BREASTS, AND BLOOD-POISONING. RYLANCE S. PLATT, Lawrence, Mass.
Filed May 27, 1920. Serial No. 133,020. PUBLISHED DECEMBER 28, 1920.

142,094. WHEAT-FLOUR. THE R. C. POAGE MILLING CO., Ashland and Catlettsburg, Ky.
Filed August 18, 1919. Serial No. 121,783. PUBLISHED JANUARY 11, 1921.

142,095. MEN'S SUITS AND OVERCOATS. POLLOCK & BECKOFF, New York, N. Y.
Filed May 29, 1920. Serial No. 133,104. PUBLISHED JANUARY 11, 1921.

142,096. OUTFIT FOR MAKING FANCY ARTICLES AND SACHETS. THE PORTER CHEMICAL COMPANY, Hagerstown, Md.
Filed June 9, 1920. Serial No. 133,495. PUBLISHED JANUARY 11, 1921.

142,097. CONFECTIONERY—NAMELY, CHOCOLATES AND BONBONS AND HARD CANDIES. PURITY CONFECTIONERY COMPANY, Boston, Mass.
Filed August 30, 1919. Serial No. 122,186. PUBLISHED JANUARY 11, 1921.

142,098. SHOES, OXFORDS, AND SANDALS MADE WHOLLY OR IN PART OF LEATHER. EDWARD J. RAMSEY, Brooklyn, N. Y.
Filed November 17, 1919. Serial No. 125,016. PUBLISHED DECEMBER 21, 1920.

142,099. AMUSEMENT DEVICES — NAMELY, A FLOATING INSTALLATION FOR A PUBLIC PLEASURE RESORT. LE ROY RAYMOND, Ocean Park, Calif., assignor to Arnold Neble and William Denzel, New York, N. Y.
Filed February 21, 1920. Serial No. 128,738. PUBLISHED OCTOBER 19, 1920.

142,100. CANDY AND CHEWING-GUM. WILLIAM BRYCE REA, New York, N. Y.
Filed December 8, 1919. Serial No. 125,726. PUBLISHED JANUARY 11, 1921.

142,101. WHEAT-FLOUR. THE RED STAR MILLING COMPANY, Wichita, Kans.
Filed August 23, 1920. Serial No. 136,387. PUBLISHED JANUARY 11, 1921.

142,102. BOARD GAME. SAMUEL B. REEDER, Washington, D. C.
Filed May 7, 1920. Serial No. 132,145. PUBLISHED NOVEMBER 2, 1920.

142,103. DEVICE FOR DISPENSING AN INSECTICIDE FOR THE ELIMINATION OF MOTHS. E. J. REEFER, Kansas City, Mo.
Filed February 17, 1919. Serial No. 115,929. PUBLISHED JANUARY 4, 1921.

142,104. WATERPROOF OILED PIECE GOODS OF COTTON, SILK, AND WOOL. BENEDICT REIS, New York, N. Y.
Filed December 22, 1919. Serial No. 126,335. PUBLISHED JANUARY 4, 1921.

142,105. WORK-SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed January 5, 1920. Serial No. 126,822. PUBLISHED DECEMBER 21, 1920.

142,106. POCKET-KNIVES AND BAYONETS. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn.; Swanton, Vt., and Ilion and New York, N. Y.
Filed July 31, 1920. Serial No. 135,661. PUBLISHED JANUARY 11, 1921.

142,107. POCKET-KNIVES AND BAYONETS. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn.; Swanton, Vt., and Ilion and New York, N. Y.
Filed July 31, 1920. Serial No. 135,664. PUBLISHED JANUARY 11, 1921.

142,108. TRACING FABRICS. REXIM CO. INC., Philadelphia, Pa.
Filed November 6, 1920. Serial No. 139,306. PUBLISHED DECEMBER 28, 1920.

142,109. MEDICINAL PREPARATION FOR RHEUMATISM, GRIPPE, AND KINDRED TROUBLE. RIEDEL & Co., INC., New York, N. Y.
Filed September 25, 1918. Serial No. 113,384. PUBLISHED JANUARY 4, 1921.

142,110. A CEREAL, NON-INTOXICATING MALT BEVERAGE, COMMONLY KNOWN AS A NEAR BEER. RIEGER & GRETZ BREWING COMPANY, Philadelphia, Pa.
Filed August 25, 1919. Serial No. 121,992. PUBLISHED DECEMBER 28, 1920.

142,111. ADHESIVE CEMENTS AND GLUES. RIVERSIDE PAINT & VARNISH COMPANY, Boston, Mass.
Filed March 8, 1920. Serial No. 129,418. PUBLISHED JANUARY 11, 1921.

142,112. CERTAIN ARTICLES OF CLOTHING. ROBERTSON, LEDLIE, FERGUSON & CO. LTD., Belfast, Ireland.
Filed March 6, 1920. Serial No. 129,343. PUBLISHED JANUARY 4, 1921.

142,113. CERTAIN NAMED LAMPS, BURNERS, MANTLES, HEATERS AND VENTILATORS. JACOB I. ROBIN, New York, N. Y.
Filed August 17, 1920. Serial No. 136,212. PUBLISHED JANUARY 11, 1921.

142,114. LINIMENT. JULIUS ROSEN, Kansas City, Mo.
Filed March 26, 1920. Serial No. 130,241. PUBLISHED DECEMBER 21, 1920.

142,115. TASSELS, FRINGES, BRAIDS, ARTIFICIAL FLOWERS, PASSEMENTERIE, DROPS, AND TRIMMINGS. SAMUEL ROSENBLUM, New York, N. Y.
Filed November 17, 1919. Serial No. 125,019. PUBLISHED JANUARY 11, 1921.

142,116. CERTAIN BATH POWDER OR SALT. ROYAL PHARMACEUTICAL & PERFUMERY CO. INC., New York, N. Y.
Filed October 3, 1919. Serial No. 123,401. PUBLISHED DECEMBER 28, 1920.

142,117. TYPEWRITING-MACHINES AND PARTS THEREOF. ROYAL TYPEWRITER COMPANY, INC., New York, N. Y.
Filed September 8, 1920. Serial No. 136,955. PUBLISHED DECEMBER 21, 1920.

142,118. WHITE NAPHTHA SOAP. THE RUB-NO-MORE COMPANY, Fort Wayne, Ind.
Filed September 9, 1920. Serial No. 136,999. PUBLISHED DECEMBER 21, 1920.

142,119. CERTAIN NAMED FOODS. SANFORD TRUCK GROWERS INC., Sanford, Fla.
Filed February 11, 1919. Serial No. 115,781. PUBLISHED JANUARY 4, 1921.

142,120. CERTAIN NAMED RECEPTACLES MADE OF A COMBINATION OF PAPER PULP AND OTHER INGREDIENTS. CORA A. SAWYER, Egan, S. D.
Filed June 5, 1920. Serial No. 133,333. PUBLISHED NOVEMBER 16, 1920.

142,121. ARTIFICIAL STONE AND BRICK. WOOTSON L. SANDERSON, Meridian, Miss.
Filed September 9, 1920. Serial No. 137,001. PUBLISHED JANUARY 4, 1921.

142,122. CERTAIN TEXTILE MACHINES AND EQUIPMENT. C. G. SARGENT'S SONS CORPORATION, Graniteville, Mass.
Filed July 23, 1920. Serial No. 135,349. PUBLISHED DECEMBER 28, 1920.

142,123. NON-INTOXICATING BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL. HENRY P. SCHROEDER, St. Louis, Mo.
Filed May 22, 1920. Serial No. 132,818. PUBLISHED JANUARY 11, 1921.

142,124. MEDICINAL TABLETS FOR USE AS AN ANODYNE AND ANTIPYRETIC. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,550. PUBLISHED DECEMBER 21, 1920.

142,125. RUBEFACIENT SOLUTION. SHARP & DOHME, Baltimore, Md.
Filed November 4, 1919. Serial No. 124,551. PUBLISHED DECEMBER 21, 1920.

142,126. CERTAIN NAMED MEDICINAL PREPARATIONS. SHEPHERD DRAIN, M. D., Baltimore, Md.
Filed July 17, 1920. Serial No. 135,101. PUBLISHED JANUARY 4, 1921.

142,127. KILNS AND VENTILATING APPARATUS THEREFOR. THE SIDMANS, Canandaigua, N. Y.
Filed October 25, 1920. Serial No. 138,787. PUBLISHED JANUARY 4, 1921.

142,128. WASH-BLUE. SIEMON & ELTING, New York, N. Y.
Filed July 12, 1920. Serial No. 134,857. PUBLISHED JANUARY 4, 1921.

142,129. SILK THREAD. SILK YARN TRADING COMPANY, New York, N. Y.
Filed October 15, 1920. Serial No. 138,348. PUBLISHED FEBRUARY 1, 1921.

142,130. SLEDS AND BOYS' WAGONS FOR PLAY. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed March 15, 1919. Serial No. 116,630. PUBLISHED OCTOBER 14, 1919.

142,131. CERTAIN NAMED GAMES, TOYS, AND FANCY GOODS. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed March 15, 1919. Serial No. 116,618. PUBLISHED DECEMBER 2, 1919.

142,132. CERTAIN TOILET PREPARATIONS. LOUIS SINGER, New York, N. Y.
Filed August 6, 1920. Serial No. 135,876. PUBLISHED DECEMBER 28, 1920.

142,133. PAPER BAGS. JOHN SINGLE, Syracuse, N. Y.
Filed July 2, 1919. Serial No. 120,226. PUBLISHED JANUARY 4, 1921.

142,134. PACKAGE-NEEDLES FOR HAND-SEWING. JAMES SMITH & SON, REDDITCH LD., Redditch, England.
Filed May 13, 1920. Serial No. 132,415. PUBLISHED JANUARY 11, 1921.

142,135. SAILMAKERS' NEEDLES. JAMES SMITH & SON, REDDITCH LD., Redditch, England.
Filed May 13, 1920. Serial No. 132,416. PUBLISHED JANUARY 11, 1921.

142,136. RAZORS, SAFETY-RAZORS, POCKET-KNIVES, SCISSORS, SHEARS, AND HAIR-CLIPPERS. PHILIP SMITH, Columbus, Ohio.
Filed August 6, 1920. Serial No. 135,872. PUBLISHED JANUARY 4, 1921.

142,137. MEDICINES FOR DISEASES OF THE TONGUE, MOUTH, AND LEGS OF CATTLE AND HORSES. JOSEPH SOBOLEWSKI, East Boston, Mass.
Filed June 23, 1920. Serial No. 134,097. PUBLISHED DECEMBER 28, 1920.

142,138. CERTAIN KNIVES AND CARVING SETS, SCISSORS, RAZORS, AND PRUNING-SHEARS. SOCIÉTÉ ANONYME DES ANCIENS ETABLISSEMENTS SABATIER PÈRE ET FILS, Thiers, France.
Filed February 5, 1920. Serial No. 128,024. PUBLISHED DECEMBER 21, 1920.

142,139. CERTAIN NAMED MEDICINAL PREPARATIONS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed August 12, 1920. Serial No. 136,040. PUBLISHED DECEMBER 28, 1920.

142,140. PREPARATION INTENDED TO REMOVE CORNS, BUNIONS, AND CALLOUSES. JOSEPH ABRAHAM SOLLOD, Baltimore, Md.
Filed July 27, 1920. Serial No. 135,458. PUBLISHED JANUARY 11, 1921.

142,141. MEDICINAL OINTMENT OR CREAM FOR TREATMENT OF THE FEET. THE SORVAN COMPANY, Tyrone, Pa.
Filed August 12, 1920. Serial No. 136,046. PUBLISHED DECEMBER 28, 1920.

142,142. FERTILIZERS, BEING SULFATES. SOUTH METROPOLITAN GAS COMPANY, London, England.
Filed March 16, 1920. Serial No. 129,809. PUBLISHED JANUARY 11, 1921.

142,143. PEANUT-BUTTER. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill.
Filed October 14, 1920. Serial No. 138,306. PUBLISHED JANUARY 4, 1921.

142,144. CERTAIN CUTLERY AND EDGE-TOOLS. SOUTHERN & RICHARDSON LIMITED, Sheffield, England.
Filed October 6, 1920. Serial No. 138,022. PUBLISHED JANUARY 18, 1921.

142,145. AUTOMOBILE-BODY POLISH. STA-BRITE MANUFACTURING COMPANY, Seattle, Wash.
Filed April 10, 1920. Serial No. 131,003. PUBLISHED JANUARY 11, 1921.

142,146. MEDICINAL TREATMENT FOR RHEUMATISM, SUCH AS RHEUMATIC ARTHRITIS, MUSCULAR, LUMBAGO, RHEUMATIC NEURITIS, AND SCIATIC. A. RICHARDSON STANLEY, Dorchester, Mass.
Filed December 2, 1919. Serial No. 125,513. PUBLISHED DECEMBER 28, 1920.

142,147. READY-MIXED PAINTS. STEARNS MCKAY MANUFACTURING CO., Marblehead, Mass.
Filed June 19, 1920. Serial No. 133,944. PUBLISHED JANUARY 11, 1921.

142,148. PUMP-VALVES. STEWART R. BROWNE MFG. CO., INC., New York, N. Y.
Filed October 16, 1920. Serial No. 138,371. PUBLISHED DECEMBER 21, 1920.

142,149. LAXATIVE TABLETS. STONEWALL MEDICINE COMPANY, St. Louis, Mo.
Filed July 12, 1920. Serial No. 134,858. PUBLISHED JANUARY 11, 1921.

142,150. MEDICINAL PREPARATION FOR COUGHS, COLDS, BRONCHITIS, HOARSENESS, AND SORE THROAT. ARTHUR L. SUTTON, Atlanta, Ga.
Filed June 19, 1920. Serial No. 133,938. PUBLISHED DECEMBER 28, 1920.

142,151. PHONOGRAPH-RECORDS AND BOOKS THEREFOR. TALKING BOOK CORPORATION, New York, N. Y.
Filed March 4, 1919. Serial No. 116,292. PUBLISHED JANUARY 4, 1921.

142,152. CERTAIN NAMED ACCESSORIES FOR MOTOR-CARS AND MOTOR-CYCLES. HERBERT TERRY & SONS LTD., Redditch, England.
Filed November 17, 1917. Serial No. 107,445. PUBLISHED JANUARY 11, 1921.

142,153. COMPOSITION FELT ROOFING. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed June 5, 1920. Serial No. 133,338. PUBLISHED JANUARY 11, 1921.

142,154. LUMBER. A. F. THANE & CO., San Francisco, Calif.
Filed October 5, 1920. Serial No. 137,974. PUBLISHED JANUARY 4, 1921.

142,155. FARM AND FREIGHT WAGONS. THORNHILL WAGON CO., Lynchburg, Va.
Filed November 2, 1920. Serial No. 139,099. PUBLISHED JANUARY 11, 1921.

142,156. MATERIAL FOR CHEMICALLY HARDENING AND DUST-PROOFING CEMENT OR CONCRETE FLOORS. TOCH BROTHERS, New York, N. Y.
Filed September 1, 1920. Serial No. 136,729. PUBLISHED JANUARY 4, 1921.

142,157. CERTAIN NAMED PAPER AND BLANK FORMS. TOLMAN PRINT INC., Brockton, Mass.
Filed November 4, 1920. Serial No. 139,179. PUBLISHED DECEMBER 28, 1920.

142,158. ESSENCES SUITABLE FOR THE PRODUCTION OF PERFUMES. UNGERER & CO., New York, N. Y.
Filed July 12, 1920. Serial No. 134,864. PUBLISHED JANUARY 11, 1921.

142,159. MOVING-PICTURE FILMS. UNITED DRUG COMPANY, Boston, Mass.
Filed September 20, 1920. Serial No. 137,396. PUBLISHED JANUARY 4, 1921.

142,160. GLUE. UNITED PRODUCTS CORPORATION OF AMERICA, Philadelphia, Pa.
Filed October 11, 1920. Serial No. 138,194. PUBLISHED JANUARY 4, 1921.

142,161. GLUES. UNITED PRODUCTS CORPORATION OF AMERICA, Philadelphia, Pa.
Filed October 15, 1920. Serial No. 138,364. PUBLISHED JANUARY 4, 1921.

142,162. COPPER GASKETS. UNIVERSAL GASKET & MANUFACTURING CO., Chicago, Ill.
Filed December 31, 1919. Serial No. 126,707. PUBLISHED JANUARY 4, 1921.

142,163. HOSIERY. A. V. VICTORIUS & COMPANY, New York, N. Y.
Filed May 19, 1920. Serial No. 132,672. PUBLISHED JANUARY 4, 1921.

142,164. FRUIT PRESERVES, JELLIES, JAMS, AND MARMALADES. LUCY F. WAKEFIELD, Geneva, Fla.
Filed August 16, 1920. Serial No. 136,172. PUBLISHED JANUARY 18, 1921.

142,165. CERTAIN NAMED FANCY GOODS AND NOTIONS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,071. PUBLISHED APRIL 6, 1920.

142,166. OIL-GAGES FOR AUTOMOBILES. WALLACE MOTOR PRODUCTS CORPORATION, New York, N. Y.
Filed October 21, 1920. Serial No. 138,660. PUBLISHED JANUARY 4, 1921.

142,167. CERTAIN NAMED MEDICINAL PREPARATION. THOMAS A. WALSH, Yonkers, N. Y.
Filed August 7, 1920. Serial No. 135,904. PUBLISHED DECEMBER 28, 1920.

142,168. CERTAIN NAMED MEDICINAL PREPARATION. THOMAS A. WALSH, Yonkers, N. Y.
Filed August 7, 1920. Serial No. 135,906. PUBLISHED DECEMBER 28, 1920.

142,169. CERTAIN JEWELRY FOR PERSONAL WEAR; PRECIOUS, SEMIPRECIOUS, AND ARTIFICIAL STONES, AND ARTIFICIAL PEARLS. HERMAN WEISSMAN, New York, N. Y.
Filed April 14, 1920. Serial No. 131,138. PUBLISHED JULY 15, 1920.

142,170. HAND-PAINTED GLASSWARE. FLORENCE TALBOT WESTBROOK, San Francisco, Calif.
Filed July 24, 1920. Serial No. 135,391. PUBLISHED DECEMBER 28, 1920.

142,171. CORN, BUNION, AND CALLOUS PLASTERS. CHARLES W. WESTENFELTER, Springfield, Ohio.
Filed July 2, 1920. Serial No. 134,531. PUBLISHED JANUARY 11, 1921.

142,172. LAXATIVE COLD AND GRIP REMEDY FOR LA GRIPPE, INFLUENZA, AND COLDS AND KINDRED ILLS. CHARLES W. WESTENFELTER, Springfield, Ohio.
Filed July 2, 1920. Serial No. 134,532. PUBLISHED JANUARY 11, 1921.

142,173. THERMOSTAT HEAT-REGULATORS FOR STOVES AND FURNACES, VOLTMETERS, VOLT-AMMETERS, AMMETERS, AND CERTAIN TEST SETS. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed August 13, 1919. Serial No. 121,650. PUBLISHED DECEMBER 21, 1920.

142,174. BUTTER. MORRIS WILDSTEIN, Philadelphia, Pa.
Filed April 5, 1920. Serial No. 130,706. PUBLISHED OCTOBER 12, 1920.

142,175. SALVE FOR THE TREATMENT OF ECZEMA, RINGWORM, SALT-RHEUM, SKIN-POISON, TETTER, PIMPLES, AND ITCH. L. B. WILLIAMS, Findlay, Ohio.
Filed June 29, 1920. Serial No. 134,398. PUBLISHED JANUARY 11, 1921.

142,176. LAXATIVE PILLS. GEORGE C. WILSON, Tyrone, Pa.
Filed June 24, 1920. Serial No. 134,164. PUBLISHED DECEMBER 28, 1920.

142,177. CERTAIN METAL PRODUCTS. THE H. A. WILSON COMPANY, Newark, N. J.
Filed June 16, 1920. Serial No. 133,813. PUBLISHED JANUARY 11, 1921.

142,178. REMEDY FOR RHEUMATISM AND SIMILAR COMPLAINTS. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed August 17, 1920. Serial No. 136,219. PUBLISHED DECEMBER 28, 1920.

142,179. COFFEE. CHARLES F. WITT, Minneapolis, Minn.
Filed June 25, 1920. Serial No. 134,227. PUBLISHED JANUARY 4, 1921.

142,180. COFFEE. CHARLES F. WITT, Minneapolis, Minn.
Filed June 30, 1920. Serial No. 134,449. PUBLISHED JANUARY 4, 1921.

142,181. LEATHER SUBSTITUTE, A MANUFACTURED OR ARTIFICIAL LEATHER. WOODWARD & COCHEY, INC., Lynn, Mass.
Filed July 20, 1920. Serial No. 135,219. PUBLISHED JANUARY 11, 1921.

142,182. TOILET-PAPER, PAPER NAPKINS, AND PAPER TOWELS. WORTENDYKE MANUFACTURING CO., Richmond, Va.
Filed November 3, 1920. Serial No. 139,141. PUBLISHED DECEMBER 28, 1920.

142,183. MEDICINAL SALVE FOR THE FEET. MIKE WOYTKO, New Britain, Conn.
Filed May 1, 1920. Serial No. 131,937. PUBLISHED JANUARY 4, 1921.

142,184. TYPEWRITER-RIBBONS AND CARBON-PAPER. GEORGE F. YANCEY, New York, N. Y.
Filed July 27, 1918. Serial No. 112,372. PUBLISHED DECEMBER 28, 1920.

142,185. TYPEWRITER-RIBBONS AND CARBON-PAPER. GEORGE F. YANCEY, New York, N. Y.
Filed July 27, 1918. Serial No. 112,373. PUBLISHED DECEMBER 28, 1920.

142,225. BEADS AND BEAD NECKLACES. MAY CORNELL SMITH, Washington, D. C.
Filed December 15, 1920. Serial No. 141,136. PUBLISHED FEBRUARY 15, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

MAY 3, 1921.

142,186. (CLASS 39. CLOTHING.) AMERICAN WHOLESALE CORPORATION, (Baltimore Bargain House,) Baltimore and Cumberland, Md. Filed Sept. 25, 1919. Serial No. 123,093.

AMERICAN WHOLESALE CORPORATION
(Baltimore Bargain House)

Particular description of goods.—Men's, Youths', and Boys' Coats, Vests, Trousers, and Overcoats; Straw, Felt, and Textile Hats and Caps; Outer Shirts of All Kinds, Textile Collars and Cuffs, Sweaters, Overalls; Men's, Women's, and Children's Hosiery; Bath-Robes and Bathing-Suits, Night-Shirts, Pajamas, Gloves of All Kinds, Knitted and Woven Underwear; One, Two, and Three Piece Garments; Ladies', Misses', and Children's Coats, Cloaks, Raincoats, Outer Skirts, and Trimmed Hats; Fur Jackets, Capes, Muffs, and Head and Shoulder Scarfs; Ladies' Shirtwaists, Underskirts, Corsets, Corset-Waists, Dresses, and Kimonos; Wrappers; Men's, Women's, and Children's Leather, Canvas, and Rubber Boots, Shoes, and Slippers.
Claims use since June 27, 1919.

142,187. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) AMERICAN WHOLESALE CORPORATION, (Baltimore Bargain House,) Baltimore and Cumberland, Md. Filed Sept. 25, 1919. Serial No. 123,094.

AMERICAN WHOLESALE CORPORATION
(Baltimore Bargain House)

Particular description of goods.—Gold and Silver Jewelry for Personal Wear, Not Including Watches; Solid and Plated Gold and Silver Hollow Ware, Flat Ware, and Tableware; Gold and Silver Mounted Umbrella and Cane Handles, and Platinum Jewel-Settings.
Claims use since June 27, 1919.

142,188. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BRILLIANT SEARCH LIGHT MFG. CO., Chicago, Ill. Filed Dec. 9, 1920. Serial No. 140,826.

BRILLIANT SEARCH LIGHT

Particular description of goods.—Gas and Oil Lamps.
Claims use since 1902.

142,189. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,932.

RECORD-INDEX-BRISTOL

Particular description of goods.—Bristol-Board.
Claims use since 1910.

142,190. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,935.

BUTLER No. 1 LINEN RECORD

Particular description of goods.—Ledger-Paper.
Claims use since Sept. 18, 1918.

142,191. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,945.

STATEMENT LEDGER

Particular description of goods.—Ledger-Paper.
Claims use since 1914.

142,192. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,946.

LINEN LEDGER INDEX BRISTOL

Particular description of goods.—Bristol-Board.
Claims use since 1909.

142,193. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,951.

Vellum Plate Pasted Bristol

Particular description of goods.—Bristol-Board.
Claims use since 1903.

142,194. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,947.

Carrara Coated Blank

Particular description of goods.—Lithograph-Paper.
Claims use since 1903.

142,195. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,952.

ST. CHARLES BRISTOL

Particular description of goods.—Bristol-Board.
Claims use since 1885.

142,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CRESCA COMPANY INC., New York, N. Y. Filed Dec. 31, 1920. Serial No. 141,717.

NOPEER

Particular description of goods.—Sardines, Olives, and Canned Cherries.
Claims use since 1907.

142,197. (CLASS 12. CONSTRUCTION MATERIALS.) JOSEPH D. CAUGHEY, New York, N. Y. Filed Oct. 27, 1920. Serial No. 138,849.



KNICKBOCKER

Particular description of goods.—Plaster; Calcined, Casting, Potters' Plaster; Superfine Plaster, Carving-Plaster, Wall-Plaster, and Retarded Plaster for Gaging, and for Cement.
Claims use since May 2, 1902, on cement and for the last seventy-two years on plaster; calcined, casting, potters' plaster; superfine plaster, carving-plaster, wall-plaster, and retarded plaster for gaging.

142,198. (CLASS 39. CLOTHING.) DALTON HOSIERY MILLS, Dalton, Ga. Filed Oct. 23, 1920. Serial No. 138,710.



Particular description of goods.—Hosiery.
Claims use since April, 1917.

142,199. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE EASIEST WAY MANUFACTURING COMPANY, Sandusky, Ohio. Filed May 10, 1920. Serial No. 132,235.



Particular description of goods.—Laundry-Washing Machines and Laundry-Ironing Machines.
Claims use since Sept. 17, 1912.

142,200. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM FULD, Baltimore, Md. Filed Feb. 4, 1919. Serial No. 115,614.

"WE — JA"

Particular description of goods.—Talking-Boards.
Claims use since 1892.

142,201. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920. Serial No. 137,449.

PACKARD

Particular description of goods.—Cotton Goods in the Piece.
Claims use since Oct. 4, 1916.

142,202. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920. Serial No. 137,458.

CORTLAND

Particular description of goods.—Sheets and Pillow-Cases and Cotton Piece Goods.
Claims use since June 5, 1911.

142,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN O. GILBERT, Jackson, Mich. Filed Oct. 5, 1920. Serial No. 137,930.

PANAMA

Particular description of goods.—Candy.
Claims use since Jan. 2, 1913.

142,204. (CLASS 39. CLOTHING.) GLIDDEN-HYDE CO., Boston, Mass. Filed Nov. 6, 1920. Serial No. 139,265.



Particular description of goods.—Hosiery.
Claims use since July 3, 1908.

142,205. (CLASS 39. CLOTHING.) B. HAAS & SONS, Cincinnati, Ohio. Filed Nov. 24, 1920. Serial No. 140,117.



Particular description of goods.—Men's and Young Men's Trousers.
Claims use since March, 1919.

142,206. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HUDSON MECHANICAL RUBBER CO., Trenton, N. J., and New York, N. Y. Filed Dec. 28, 1920. Serial No. 141,568.

HI-TEST

Particular description of goods.—Hose, Belting, Gaskets, Packing, Valves, and Tires Made of Rubber and Cotton Duck.
Claims use since 1910.

142,207. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HUDSON MECHANICAL RUBBER CO., Trenton, N. J., and New York, N. Y. Filed Dec. 28, 1920. Serial No. 141,569.

HUDSON

Particular description of goods.—Hose, Belting, Gaskets, Packing, Valves, and Tires Made of Rubber and Cotton Duck.
Claims use since 1910.

142,208. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HUDSON MECHANICAL RUBBER CO., Trenton, N. J., and New York, N. Y. Filed Dec. 28, 1920. Serial No. 141,570.

CLERMONT

Particular description of goods.—Hose, Belting, Gaskets, Packing, Valves, and Tires Made of Rubber and Cotton Duck.
Claims use since 1910.

142,209. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HUDSON MECHANICAL RUBBER CO., Trenton, N. J., and New York, N. Y. Filed Dec. 28, 1920. Serial No. 141,571.

RIVET

Particular description of goods.—Hose, Belting, Gaskets, Packing, Valves, and Tires Made of Rubber and Cotton Duck.
Claims use since 1910.

142,210. (CLASS 37. PAPER AND STATIONERY.) KALAMAZOO VEGETABLE PARCHMENT CO., Kalamazoo, Mich. Filed Dec. 27, 1920. Serial No. 141,527.

KALAMAZOO PARCHMENT

Particular description of goods.—Parchment-Papers.
Claims use since 1911.

142,211. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921. Serial No. 142,602.

SMYRNA

Particular description of goods.—Cotton Piece Goods.
Claims use since 1914.

142,212. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921. Serial No. 142,591.

PANOLA

Particular description of goods.—Cotton Piece Goods.
Claims use since November, 1913.

142,213. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921. Serial No. 142,598.

TUNIS

Particular description of goods.—Cotton Piece Goods.
Claims use since March, 1915.

142,214. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KINNEY MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 30, 1920. Serial No. 140,468.

KINNEY

Particular description of goods.—Electric Motors and Parts Thereof.
Claims use since July, 1907.

142,215. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LARABEE FLOUR MILLS CORPORATION, Hutchinson, Kans., and Kansas City, Mo. Filed Aug. 27, 1920. Serial No. 136,564.



In which the vertical lining represents red and the horizontal lining represents blue.
Particular description of goods.—Wheat-Flour.
Claims use since October, 1916.

142,216. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARSHALL CANNING CO., Marshalltown, Iowa. Filed June 10, 1919. Serial No. 119,427.



Particular description of goods.—Breakfast Food.
Claims use since Feb. 18, 1919.

142,217. (CLASS 2. RECEPTACLES.) THE MASON BOX COMPANY, Attleboro Falls, Mass. Filed Dec. 15, 1920. Serial No. 141,125.

Kum-bak

Particular description of goods.—Mailing-Boxes.
Claims use since January, 1912.

142,218. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NEED-NO-HONE COMPANY, Rock Island, Ill. Filed July 8, 1920. Serial No. 134,721.



Particular description of goods.—Razor-Strop Dressing.
Claims use since Feb. 1, 1918.

142,219. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHARLES NESSLER, New York, N. Y. Filed Aug. 13, 1920. Serial No. 136,085.

NESTLÉ

Particular description of goods.—An Electric Permanent-Hair-Waving Device.
Claims use since 1903.

142,220. (CLASS 33. GLASSWARE.) THE OWENS BOTTLE COMPANY, Toledo, Ohio. Filed Apr. 17, 1920. Serial No. 131,282.

Owens
BOTTLES

Particular description of goods.—Bottles, Jars, and Jugs, All Made of Glass.
Claims use since Feb. 22, 1919.

142,221. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. PATRICK & CO., Duluth, Minn. Filed Jan. 5, 1921. Serial No. 141,879.

Patrick
DULUTH

Particular description of goods.—Burlap, Pillow-Casing, Pillow-Tubing, Pillow-Ruffling in the Piece, Mosquito-Netting, Laces and Ribbons in the Piece, Bureau-Scarfs, Table-Scarfs, Fabric Blankets, Portières, Textile Mats, Quilting in the Piece, Made-Up Quilts, and Piece Goods of Any One or More of the Following Materials, Namely: Cotton, Linen, Silk, and Wool.
Claims use since Apr. 2, 1910.

142,222. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PENICK & FORD, LTD. INCORPORATED, New Orleans, La. Filed Nov. 23, 1920. Serial No. 140,066.

Douglas

Particular description of good —Corn-Starch.
Claims use since Jan. 15, 1918.

142,223. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WHEEL TRUING BRAKE SHOE CO., Detroit, Mich. Filed Dec. 20, 1920. Serial No. 141,340.

WHEEL TRUING BRAKE SHOE

Particular description of goods.—Brake-Shoes Provided with an Abrasive Face for Grinding Car-Wheels While in Use.
Claims use since May 31, 1898.

142,224. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FRANK W. WHITCHER COMPANY, Portland, Me. Filed Feb. 15, 1921. Serial No. 143,630.

SANITARY

Particular description of goods.—Fabricated Insoling.
Claims use since July 23, 1920.

LABELS

REGISTERED MAY 3, 1921.

22,857.—*Title:* "NORTHERN OHIO WOOLWARE." (For Use Upon Wool Robes and Wool Shawls.) THE BECKMAN COMPANY, Cleveland, Ohio. Filed August 9, 1920.

22,858.—*Title:* "ELDER TREE EXTRACT." (For a Medicinal Preparation of Oil Extracted from the Elder-Tree.) MICHAEL CARUSO, New Bedford, Mass. Filed April 19, 1920.

22,859.—*Title:* "BRAG BOLTED MEAL." (For Cornmeal.) DAHNKE-WALKER MILLING CO., Union City, Tenn. Filed September 2, 1920.

22,860.—*Title:* "CURAL." (For Soap.) DE HOYOS BROS., New York, N. Y. Filed December 2, 1920.

22,861.—*Title:* "FERRO-CHINA ITALIA." (For Bottles Containing a Compound Medicinal Preparation.) WILLIAM D. DEL-WIT, New York, N. Y. Filed March 24, 1920.

22,862.—*Title:* "DAYLIGHT IN EVERY DROP." (For Paints.) DEVOE & RAYNOLDS CO. INC., New York, N. Y. Filed September 20, 1920.

22,863.—*Title:* "HECK'S ROOT BEER." (For Containers for Root-Beer.) JOHN MAURICE ECKENRODE, Pasadena, Calif. Filed October 11, 1920.

22,864.—*Title:* "EUREKA." (For Metal-Polish.) EUREKA METAL POLISH CO. (INC.), Chicago, Ill. Filed January 20, 1920.

22,865.—*Title:* "SUPERIOR VIOLET INK." (For Writing and Copying Ink.) PAUL FURMAN, Lynn, Mass. Filed October 30, 1920.

22,866.—*Title:* "GINSOS ELECTROFIED CHLORINE." (For an Electrofied Chlorin for Medical, Surgical, and Hospital Purposes.) GINSO CHEMICAL COMPANY, St. Joseph, Mo. Filed January 8, 1921.

22,867.—*Title:* "GOFF'S ATLANTIC CITY SALT WATER TAFFY." (For Salt-Water Taffy.) S. B. GOFF & SONS COMPANY, Camden, N. J. Filed March 28, 1921.

22,868.—*Title:* "RF MANUFACTURED MACHINE TOOLS." (For Remanufactured Machines, Tools, and Parts Thereof.) HILL, CLARKE & CO., Chicago, Ill. Filed January 28, 1920.

22,869.—*Title:* "MACHINERY MERCHANTS." (For Machinery, Tools, and Parts Thereof.) HILL, CLARKE & CO., Chicago, Ill. Filed January 28, 1920.

22,870.—*Title:* "DISH-KLEEN." (For Containers Containing Cleansing-Powder Preparation.) THE LAVO COMPANY OF AMERICA, Milwaukee, Wis. Filed June 23, 1919.

22,871.—*Title:* "LIMONES." (For Containers for Cane-Sugar.) J. I. LEZAMA, Empedrado, Habana, Cuba. Filed November 9, 1920.

22,872.—*Title:*—"GARDEN GIRL CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 8, 1920.

22,873.—*Title:* "SHOREWOOD CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed August 26, 1920.

22,874.—*Title:* "DR. ROOT'S GENUINE ROOT BEER, NATURE'S WONDER DRINK." (For Root-Beer.) NATIONAL BREWING COMPANY, New Orleans, La. Filed October 30, 1920.

22,875.—*Title:* "SUGARED PECANS." (For Candy.) NORRIS, INC., Atlanta, Ga. Filed October 30, 1920.

22,876.—*Title:* "WHIP-EZEY." (For a Preparation for Whipping Thin Cream, Evaporated Milk, White of Eggs, and Top Cream.) OXYDENE MFG. CORP., Buffalo, N. Y. Filed May 31, 1919.

22,877.—*Title:* "RAS MANGASCIA." (For Tonic for the Hair and Scalp.) PASQUALE RUGGIANO, New York, N. Y. Filed November 15, 1920.

22,878.—*Title:* "ANIMATED CARTOON OF AUTO ALLEY." (For Non-Serial Motion-Picture Films.) RUSSELL-GREIVER-RUSSELL, Chicago, Ill. Filed November 22, 1920.

22,879.—*Title:* "ANIMATED CARTOON OF GASOLINE ALLEY." (For Non-Serial Motion-Picture Films.) RUSSELL-GREIVER-RUSSELL, Chicago, Ill. Filed November 22, 1920.

22,880.—*Title:* "GOODIES." (For Candies—Namely, Orange Fruit Tablets.) STAR CANDY CO., Chicago, Ill. Filed August 30, 1920.

22,881.—*Title:* "VALMINZO." (For Containers for an Ointment for the Treatment of Burns and Scalds, Piles, Sore Eyes, Eczema, Blood-Poison, Sore Mouth, Chronic or Old Sores, Ulcers, Insect-Bites, Inflammation or Irritation on Any Part of the Body.) M. F. STREET & CO., Rector, Ark. Filed October 30, 1920.

22,882.—*Title:* "BEST QUALITY SWEET P'S." (For Dried Peas.) WILLER & RILEY (1910) LTD., Manchester, England. Filed October 22, 1920.

22,883.—*Title:* "BUNCH OF PODS." (For Dried Peas.) WILLER & RILEY (1910) LTD., Manchester, England. Filed Oct. 22, 1920.

22,884.—*Title:* "WILLER'S ENGLISH PEAS." (For Dried Peas.) WILLER & RILEY (1910) LTD., Manchester, England. Filed October 22, 1920.

22,885.—*Title:* "NATURAL NO. 2 GREEN PEAS." (For Dried Peas.) WILLER & RILEY (1910) LTD., Manchester, England. Filed October 22, 1920.

22,886.—*Title:* "NATURAL NO. 1 GARDEN PEAS." (For Dried Peas.) WILLER & RILEY (1910) LTD., Manchester, England. Filed October 22, 1920.

22,887.—*Title:* "WILLER'S ENGLISH PEAS." (For Dried Peas.) WILLER & RILEY (1910) LTD., Manchester, England. Filed October 22, 1920.

PRINTS

REGISTERED MAY 3, 1921.

5,589.—*Title:* "A FEAST OF FLAVOR." (For Advertising Purposes for Canned Sausages.) ACME PACKING CO., Chicago, Ill. Filed August 28, 1920.

5,590.—*Title:* "A GOOD SANDWICH IS A MEAL ANYWHERE." (For Advertising Purposes for Canned Corn-Beef.) ACME PACKING CO., Chicago, Ill. Filed August 28, 1920.

5,591.—*Title:* "VOGUE 'END-O-SPIRE.'" (For Advertising Purposes for a Toilet Preparation Which Prevents Perspiration.) AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y. Filed January 31, 1919.

5,592.—*Title:* "BEECH-NUT." (For Advertising Purposes for Ginger-Ale.) BEECH-NUT PACKING CO., Canajoharie, N. Y. Filed July 19, 1920.

5,593.—*Title:* "FRICTIONLESS BEARING METAL." (For Use in Reference to Bearing Metal.) FRICTIONLESS METAL COMPANY, Chattanooga, Tenn. Filed June 26, 1920.

5,594.—*Title:* "MAKING A BEAUTY TREATMENT." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed August 28, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

RIDGE *v.* MASSEY AND ZIEGLER.

Decided December 8, 1919.

PATENTS—PRIORITY—ORIGINALITY—EMPLOYER AND EMPLOYEE.

Where in an interference between a joint application of Massey and Ziegler, assigned to the Winters-Coleman Company and a later-filed application of Ridge, who was a salesman of the company, it appeared from the evidence that prior to the filing of the joint application Ridge had disclosed to Massey, Winters, and Coleman, who were officers of the company, the features of the invention in such detail as to means of embodiment that his idea could be made practically operative without the exercise of invention, *Held* that Ridge was in the relation to Massey and Ziegler of employer and employee and that the working out of the details therefore inured to Ridge, who was entitled to an award of priority. (*Standard Cartridge Co.* v. *Peters Cartridge Co.*, 77 Fed. Rep., 630.)

[Decision affirmed by the Court of Appeals of the District of Columbia, 286 O. G., 202.]

APPEAL from Examiners-in-Chief.

SCALE.

Mr. William J. Peck and *Mr. Edgar J. Clarkson* for Ridge.

Messrs. Duell, Warfield & Duell for Massey and Ziegler.

WHITEHEAD, *First Assistant Commissioner:*

Massey and Ziegler appeal from the decision of the Examiners-in-Chief affirming the decision of the Examiner of Interferences awarding priority to Ridge.

The invention relates to dial-scales which are provided with means whereby the operator may read the weight value of the added counterpoise, as well as the minor load, at a point indicated by the pointer.

In 1914 the Winters-Coleman Company, of Springfield, Ohio, the assignee of Massey and Ziegler, was making and selling a scale in which the rotating pointer indicated on the dial a load up to 200 pounds. In order to weigh greater loads than this, a number of weights were arranged one above another in a carrier and mechanism was provided whereby upon the pressing of a button the carrier would deposit a weight on the weighing apparatus until the load became balanced on the scale. These weights were of such size as to balance weights of 200 pounds each. A rod extended upward from the weight-carrier and carried a plate bearing the numbers 200, 400, 600, etc. This plate was located behind the dial, and as the weight-carrier moved downward the proper number was exposed through a window in the dial. The weight of any load was obtained by adding the amount appearing at the window to the amount indicated at the edge of the dial by the rotating pointer.

In the scale involved in this interference there is provided in the main dial a set of small windows arranged close to the numbers on the dial, and a rotating dial is arranged behind the main dial and connected to the weight-carrier in such a manner that as it descends proper numbers are brought opposite these windows, with the result that instead of having to add the number appearing at the window in the center of the dial to the number indicated by the pointer the total weight can be read at once, the first figure being the number appearing at the window and the second and third figures those on the dial. As shown in the drawing of the Massey and Ziegler application, the numbers appearing at the windows on the right-hand side of the dial are smaller than those appearing at the left-hand dial. This of course is for the reason that the dial indicates up to 200 pounds. As shown in Figure 2 of that application, the pointer indicates a weight of 450 pounds. If the weight had been great enough to carry the pointer to the opposite side of the dial, it would have indicated a weight of over 500 pounds.

The invention is set out in eleven counts, of which counts 4 and 10 will serve as examples:

4. In a dial scale, a main, stationary, circular dial carrying weight indicating characters, an auxiliary, rotatable, circular index dial carrying indices for characters of said stationary dial, counterpoising means, and means controlled by counterpoising for rotating said index dial to change the reading of said main dial.

10. In a scale the combination of a fixed dial with figures thereon and movable pointer adapted for connection to the moving part of the scale so that the pointer will indicate the weight of the load upon said dial, a movable cage, a movable dial with figures in juxtaposition to said first mentioned figures, a pendant, counterpoises normally supported by said cage but adapted to be transferred to the pendant by movement of the cage, means connecting the cage with the movable dial and means connecting the pendant with the said pointer, whereby a movement of the cage sufficient to transfer a counterpoise to the pendant will cause a corresponding movement of the movable dial to bring the proper figure on the movable dial adjacent to one of the figures on the stationary dial.

Admittedly the party Ridge suggested the use of a rotating dial behind the main dial, and at an interview with Massey and Coleman and Winters, who were officials of the Winters-Coleman Company,

he exhibited a paper dial with figures arranged as in their commercial scale and having windows cut therein.

According to Ridge's testimony he had conceived the idea of substituting for the vertically-moving rod of the Winters-Coleman Company's scale a rotating dial so arranged that the total weight could be read from the dial, his object being to avoid mistakes due to improper addition of the two numbers.

The record shows that after the interview above referred to the matter was taken up by the Winters-Coleman Scale Company, and subsequently one or more scales embodying this invention were built and sold, the first of these being made in the early part of 1915.

No testimony was taken on behalf of Massey and Ziegler to establish the allegations of their preliminary statement or any facts in reference to their development of the invention. The only testimony taken was to rebut that of Ridge as to the extent of his disclosure at the interview.

The Examiner of Interferences held that Ridge had a complete conception of the invention in its broader aspects and disclosed the same at that interview and that whatever work was done by Massey and Ziegler inured to the benefit of Ridge under the well-known employer and employee doctrine, as announced in the case of *Eastern Dynamite Co.* v. *Keystone Powder Mfg. Co.*, (164 Fed. Rep., 47.) The Examiners-in-Chief made the same holding, and they further held that in view of all the record it was evident that Massey and Ziegler were not joint inventors.

The main contention on behalf of Massey and Ziegler is that Ridge disclosed at the interview with the officials of the Winters-Coleman Company nothing more than a bald idea of result and that it is apparent from the testimony that he had no conception of any means for carrying out this result—in other words, that his only conception was that in some way or other a rotating dial might be arranged behind the main dial and that if it could be done it would be a good selling-point and that the mechanism by which this was to be carried into effect was left to be developed by the officials of the Winters-Coleman Company.

Ziegler was not called as a witness on behalf of the joint inventors, and Massey states that nothing was brought to his attention at the interview except the dial with the windows cut therearound. He admits, however, (X-Q. 46,) that the idea that he got from Ridge was to make a total-capacity-reading dial, thus doing away with the mental calculations necessary at that time with the dial being used. Coleman testifies (Q. 6) that Ridge explained that—

if a mechanism could be devised whereby the figures in excess of the dial could be shown through these openings it would prove to be a very valuable asset to the scale.

He states (Q. 7) that Ridge did not disclose any idea as to how this could be worked out or make any sketch. Ridge had testified that at this interview he made a sketch on a pad showing how the rotating dial could be connected by a lever to the weight-carrier. Winter states (Q. 8) that it was his recollection that Ridge had the dial with the openings cut therein and that—

he had another piece of paper or something with figures on which he held back of the dial so that the figures would show through the opening.

He denies (Q. 11) that Ridge showed him any drawing. Coleman states, however, in answer to X-Q. 25 that they all understood how the figures would appear through the windows in the dial and that Ridge talked it over fully with them.

In the original letter which Ridge wrote to the Winters-Coleman Company he stated that he had conceived an idea relative to an improvement in the way of markers and that he had successfully worked out the idea. In some letters written subsequent to the interview he stated that if any trouble were had in adapting the idea to the scale to please advise him, as since the interview he had figured the matter over carefully and felt positive that it could be operated successfully, from which it is argued that Ridge had no idea of the proper mechanism to be used.

As the invention was designed as an improvement over the scale which the Winters-Coleman Company was then manufacturing and in which the plate bearing the larger numbers was moved by the weight-carrier, it was obvious that the rotary dial must either be moved by the weight-carrier or be moved in synchronism therewith. Otherwise the proper indication would not be made on the dial.

In a letter written January 6, 1915, by Ridge, he states that if the attaching of the mechanism to the weight-cage would be prohibitive he would suggest that the ring could be operated by being counterbalanced, so that by its own weight it would follow the cage downward and be brought back with the cage when the mechanism for elevating the latter was operated.

Considerable testimony was taken with reference to the question whether the secondary dial in the scale manufactured by the Winters-Coleman Company was so overweighted or exactly balanced and moved merely by an actual connection to the weight-carrier. Winters seems to indicate in his testimony that it was impossible to have the secondary dial overweighted; but the testimony in rebuttal as to the scales actually manufactured seems to indicate that this was the construction.

It is insisted that the testimony shows that the devising of proper mechanism for coördinating the movement of the secondary dial and the movement of the cage was quite difficult and involved invention; but, as pointed out by the Examiners-in-Chief, the problem was merely to change rectilinear into rotary motion and to so arrange and connect the mechanism that the movement of the weight-carrier would cause a lesser movement of the rotary dial. While this might have taken some calculation and there might have been some difficulty in constructing the parts of exactly the right weight and in determining what was the most advantageous material to be used, certainly the solution

of these problems did not rise to the dignity of invention.

Although Ridge was a salesman for the company, so far as this invention was concerned the relation existing between him and Massey, who had been designated by the officials of the company to build the scales, was that of employer and employee, and the working out of mechanism to make the proper connection inured to the benefit of Ridge. It is to be noted that in all the earlier correspondence the device is referred to by the officials of the Winters-Coleman Company as the "Ridge dial."

The testimony is deemed to fully establish that Ridge had not only an idea of result but such an idea of means that his scheme could be worked out so as to be practically operative without the exercise of any invention. The case in that respect is very analogous to the case of *Standard Cartridge Co. et al.* v. *Peters Cartridge Co.*, (77 Fed. Rep., 630,) whereby the making of crude sketches to show an improvement over an existing machine, taken in connection with oral descriptions, was held to be a complete disclosure of the invention.

As no attempt was made on behalf of Massey and Ziegler to establish any date of joint conception of the invention prior to the filing of their application and as Ridge has established that he was in possession of the invention and disclosed it to Massey, one of the joint inventors, prior to that date, priority was properly awarded to him.

If the testimony with reference to the Ziegler drawing were sufficient to establish that it was made in September, 1914, and that it completely disclosed the invention, it would not establish that Massey and Ziegler had a joint conception of the invention at any time, and there is no evidence in the record that anything was ever done as the result of Ziegler's work.

In view of the holding above made it unnecessary to consider the question whether any work was done jointly by Massey and Ziegler in developing the scale.

The decision of the Examiners-in-Chief is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

ALLEN *v.* HILL.

Decided February 7, 1921.

PATENTS—PRIORITY—DISCLOSURE IN PRIOR APPLICATION—DESCRIPTION CLEAR, DRAWING UNCERTAIN.

A prior application is not a constructive reduction to practice of an interference issue calling for a certain construction and relation of parts where such application clearly described a different relation, and the only basis for a contrary contention was found in the drawing, which was not clear.

Mr. Jas. A. Watson for Allen.

Mr. A. H. Hildreth for Hill.

SMYTH, *C. J.:*

The invention involved in this interference relates to buttonhole cutting and stitching machines. There are nine counts, of which 2 and 7 are typical.

2. In a button-hole sewing machine, the combination with stitch-forming mechanism, of a work-clamp, a button-hole cutting device, a cutter-shaft with controlling means for causing it to perform a single rotation only preparatory to a button-hole stitching operation, means carried by the cutter-shaft for actuating the cutting device, and means also carried by the cutter-shaft and acting independently of said actuating means for effecting the closing of the work-clamp.

7. A button-hole sewing machine having, in combination, a stitch-forming mechanism, a work-clamp, a cutter, a cam-shaft, a cam on the shaft and connections for closing the clamp, a second cam on the shaft and connections for relatively moving the clamp and cutter into and out of cutting relation, a third cam on the shaft and connections for operating the cutter, mechanism thrown into operation by the operator for driving the cam shaft, devices for stopping the cam shaft, mechanism for actuating the stitch-forming mechanism and work clamp to sew about a button-hole, and means for stopping said mechanism after a buttonhole is completed.

Counts 1, 2, 4 and 5 were awarded by the Examiner of Interferences to Allen, and the remaining counts to Hill. Allen admits that he cannot make count 3. The Examiners-in-Chief gave all the counts to Hill, and they were affirmed by the Commissioner. The three tribunals, therefore, are in accord as to all the counts but 1, 2, 4 and 5. In so far as they are in accord their judgment seems sound, and on the authority of *Lautenschlager* v. *Glass*, (47 App. D. C., 443;) *Rees* v. *White*, (48 App. D. C., 149,) and *Greenawalt* v. *Dwight* (49 App. D. C., 82; 258 Fed., 982) we will not disturb it. This leaves counts 1, 2, 4 and 5 to be considered.

The Examiner of Interferences in awarding these counts to Allen proceeded upon the hypothesis that an earlier application of his filed September 6, 1912, and upon which a patent issued in 1916, effected a constructive reduction to practice. If it disclosed that a certain clamp-lever 223 was fulcrumed on the upper cutter-lever 108, it did not do so, and the debate centers about that point. It specified that the clamp-closing lever 223—

fulcrumed intermediate its ends at 224 upon the upper cutter-carrying lever.

Not only that but his claims 40 and 41 of the same application included as an element—

a clamp-closing rock-lever fulcrumed upon said cutter-lever and adapted, etc.

Those claims were allowed to Allen in that application; but after this interference had been declared and after he had access to Hill's papers and had discovered the necessity of establishing an earlier date for himself than he then had, Allen canceled the claims. He now argues that the claims and specification were erroneous. If so it is remarkable how this error persisted, for he carried it into his British patent, where he described—

the rock-lever 223 fulcrumed intermediate its ends at 224 upon the upper cutter-carrying lever.

Allen is a man highly skilled in the art. He tells us that he gives little attention to the specification of his application, but that it is otherwise with his claims. "The claims," he testified, "I invariably read very carefully several times." In view of this is it not rather surprising that he overlooked the error, if there was one, which lay in the claims of the American and British applications?

But Allen says that the drawings of his earlier application disclose that the claims and specifications are incorrect. We are by no means persuaded that they do. The First Assistant Commissioner, dealing with this question, said:

Where there is a specific statement in the specification of an application as to the manner in which the parts

are mounted and operated, it would require a very clear showing in the drawing to permit a change of this statement,

and he reached the conclusion that if any change was to be made in the matter we are considering, it should be in the drawings so as to make them conform to the specification; in other words, that a definite statement in the specification is more reliable than a drawing, especially where the latter, as here, is not clear. We think the Examiners-in-Chief summed the matter up correctly when they said, in effect, that to base a holding of a constructive reduction to practice of an invention upon a drawing in the face of a positive statement in the specification contrary to what was contended for, the drawing should be certain and conclusive, which is not so in the present case. Accordingly they held that the Examiner of Interferences was in error in finding that Allen's earlier application was a constructive reduction to practice of the invention of the counts 1, 2, 4 and 5, and in this connection, as we have said, the Commissioner concurred.

Allen contended at the bar that if he could use the testimony of Hill's witnesses in a former interference referred to by him he would be able to demonstrate the correctness of his theory. But it is stipulated in the record that he might do so. Why, then, complain? We do not think, however, that the testimony would have helped him any.

We believe the Patent Office is right, and therefore the decision of the Commissioner is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

JAY *v.* COULOMBE.

Decided February 7, 1921.

PATENTS — PRIORITY — REDUCTION TO PRACTICE — ABANDONED EXPERIMENT.

Where experiments by a party to an interference proceeding relating to vacuum fuel-feeding devices were conducted in 1913, after which nothing was done for three and one-half years until he was spurred into activity by seeing the device of his adversary, during which time he was actively engaged in prosecuting applications for various other gasolene-fuel-feeding devices, and in 1914 he assigned all his inventions on fuel-feeding devices except the one involved in the interference, *Held* that such actions indicate that he regarded the invention as worthless and that what was done in 1913 amounted only to abandoned experiments.

Mr. Jos. R. Edson for Jay.

Mr. Robert Cushman and *Mr. A. V. Cushman* for Coulombe.

VAN ORSDEL, *J.:*

This interference relates to an invention consisting of a two-chambered gasolene-tank for internal-combustion engines, in which the gasolene is drawn by suction from the source of supply into a receptacle located above, from which it is discharged by gravity to supply the engine-carbureter as required.

It is unnecessary to set out the counts of the issue, since the case turns solely upon a question of fact in which we agree with the conclusions reached in the concurring decisions of the three tribunals below.

Jay was inadvertently granted a patent while the Coulombe application was pending. Jay made some experiments in 1913, which did not amount to a reduction to practice. He did nothing more for three and one-half years, when he was spurred into activity by seeing his adversary's device. It appears that, during this period, he was actively engaged in prosecuting applications for various other gasolene-feeding devices. It also appears that in 1914 he assigned to the Stewart-Warner Company, of Chicago, all his inventions on fuel-feeding devices for internal-combustion engines, but did not include the invention of the present issue. These actions, together with the long period of inactivity, indicate conclusively that he regarded the present invention as worthless. The finding of the Commissioner that what Jay did in 1913 resulted in an abandoned experiment was right.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

MASSEY AND ZIEGLER *v.* RIDGE.

Decided February 7, 1921.

PATENTS—PRIORITY—ORIGINALITY—EMPLOYER AND EMPLOYEE.

Concurrent decisions of the Patent Office tribunals awarding priority of invention to Ridge over the claims of joint applicants, Massey and Ziegler, on the basis of the doctrine of employer and employee, not being manifestly wrong, affirmed. (Commissioner's decision, 286 O. G., 199, affirmed.)

Mr. F. P. Warfield, Mr. H. S. Duell, and *Mr. J. W. Anderson* for Massey and Ziegler.

Mr. Herman De Witt Ridge pro se.

SMYTH, *C. J.:*

This interference has to do with dial scales which are provided with means whereby the operator may read the weight value of the added counterpoise, as well as the minor load, at a point indicated by the pointer. The issue is one of originality. Ridge had an interview with Massey, Coleman and Winters, officials of the Winters-Coleman Company, in which, he asserts, he disclosed his idea to them. After this interview, he says, the Winters-Coleman Company built one or more scales embodying his idea and sold some of them. The three tribunals of the Patent Office are in accord on the proposition that Ridge had a complete conception of the invention in its broader aspects and disclosed the same at that interview, and that whatever work was done by Massey and Ziegler thereafter inured to the benefit of Ridge, under the well known employer and employee doctrine. (*Orcutt* v. *McDonald*, 27 App. D. C., 228; *Kreag* v. *Geen*, 28 App. D. C., 437; *Braunstain* v. *Holmes*, 30 App. D. C., 328; *Eastern Dynamite Co.* v. *Keystone Powder Mfg. Co.*, 164 Fed., 47.) A study of the record and the arguments satisfies us that they are right; at least that they are not manifestly wrong. In view of this we must, according to the repeated rulings of this court, (*Greenawalt* v. *Dwight*, 49 App. D. C., 82; 258 Fed., 982, and cases cited; *Kennicott* v. *Caps*, 49 App. D. C., 187; 262 Fed., 641; *Hopkins* v. *Rieger*, 49 App. D. C., 188; 262 Fed., 642; *Maremont* v. *Olson*, 49 App. D. C., 369; 265 Fed., 1009; *Kitselman* v. *Reid et al.*, 49 App. D. C., 378; 266 Fed., 256,) affirm the decision of the Commissioner, which is accordingly done.

Affirmed.

Court of Appeals of the District of Columbia.

SKENE *v.* THE MARINELLO COMPANY.

Decided February 7, 1921.

1. TRADE-MARKS—CANCELATION—DAMAGE.

Under section 13 of the Trade-Mark Act of 1905, providing for the cancelation of a mark upon application by any person who "shall deem himself injured by the registration," the person seeking cancelation must state facts from which, if true, the court may reasonably infer that he might be damaged unless the mark is canceled.

2. SAME — SAME — SUFFICIENCY OF ALLEGATIONS AND PROOF OF DAMAGE.

Where a petition for the cancelation of the word "Marinello" alleges that petitioner used the word in her business for many years, but does not state how it was used—whether as a trade-mark or trade-name upon goods of the same descriptive properties or as the name of a system or otherwise—and the only proof of damage is found in a copy of a bill filed against petitioner by the registrant in a State court, wherein it is alleged that petitioner was using the word as a trade-name for her shop, *Held* insufficient to show damage. The application for cancelation having been filed a year and a half after the filing of the bill, proof that petitioner was then using the mark is not proof that she used it when the application for cancelation was filed.

Mr. F. M. Phelps for Skene.

Messrs. A. A. Smith, J. H. Milans, and *C. T. Milans* for The Marinello Co.

SMYTH, *C. J.:*

The Marinello Company has registered in the Patent Office as a trade-mark on certain toilet preparations the word "Marinello." The appellant, called herein the petitioner, seeks to have it canceled on the ground that she deems herself damaged thereby. The Patent Office denied her prayer.

Petitioner has filed an elaborate brief in which many points are raised and argued. We think, however, that the proceeding turns on the answer to a simple question. Has petitioner shown any such interest in the word as would entitle her to attack the registration? The statute provides that whenever any person shall deem himself injured by the registration of a trade-mark, he may apply to the Commissioner of Patents to cancel the registration. (Sec. 13, 33 Stat., 728.) We have construed this to mean that he who seeks cancelation must state facts from which, if true, the court may reasonably infer that he might be damaged unless the mark is canceled. (*McIlhenny's Son* v. *New Iberia, etc., Pepper Co.*, 30 App. D. C., 337, 339; *Underwood Typewriter Co.* v. *A. B. Dick Co.*, 36 App. D. C., 175, 178; *Standard Brewing Co.* v. *Interboro Brewing Co.*, 44 App. D. C., 193.) The only allegation with respect to damages made by petitioner is to the effect that she used the word in connection with her business for many years, and deems herself injured by the registration. How she used it, whether as a trade-mark or as a trade-name, upon goods of the same descriptive properties, or as the name of a system, or otherwise, she does not say. Her only proof of use is found in a copy of a bill of complaint filed against her by the registrant in an Illinois court, and introduced by her in this proceeding, wherein it is alleged that she uses the word "Marinello" as a trade-name for her shop. This, she argues, is an admission of use by her. That may be conceded, but to what time does the admission relate? Clearly to the time when the bill was filed, and that was in the early part of 1917, while her petition for cancelation was not lodged in the Patent Office until July, 1918, about a year and a half thereafter. Proof that she was using the name in 1917 is not satisfactory proof that she was doing so a year and a half later. We are aware of the presumption that where a fact is shown to exist, it usually will be regarded as continuing in the absence of any proof to the contrary, but that is too flimsy a thing upon which to rest an application for cancelation. If petitioner was using the mark in connection with her business, it was very easy for her to have offered convincing proof of it. If she was not using it at the time she filed her application for cancelation, but had abandoned its use, she would not be in a position to urge that she was being damaged by the registrant's use of it.

We think petitioner has utterly failed in her proof of use, and therefore the decision of the Commissioner of Patents is affirmed.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Ohio.) The Houston patent, No. 853,409, claims 3 and 4, for an improvement in cultivators, *Held* not infringed by defendant's machine constructed to prevent any more vertical motion than was permitted in the prior art. *Houston* v. *Brown Mfg. Co.*, 270 F. R., 445.

(U. S. C. C. A. Ohio.) Claims 1, 2, 4, and 5 of the Jay patent, No. 1,134,457, and claims 1 and 3 of the Jay patent, No. 1,132,273, for vacuum-tanks for automobile and other internal-combustion engines, *Held* to involve no invention over the prior art, and claim 4 of the first-mentioned patent *Held* not infringed, if valid. *Sparks-Withington Co.* v. *Jay et al.*, 270 F. R., 449.

(U. S. C. C. A. Ohio.) Claim 13 of the Jay patent, 1,132,273, for a vacuum-tank for internal-combustion engines, *Held* not infringed, if valid. *Sparks-Withington Co.* v. *Jay et al.*, 270 F. R., 449.

(U. S. C. C. A. Ill.) The Utzman patents, No. 1,029,328, for a process for making plaster-board, and No. 1,034,746, covering the product, *Held* to disclose invention in turning over and sealing the edges

of the bottom layer of paper; also *Held* infringed. *Bestwall Mfg. Co.* v. *United States Gypsum Co.*, 270 F. R., 542.

(U. S. D. C. Mass.) The Tufford patent, No. 14,049, reissued January 11, 1916, claims 5 to 10, for a heel-lift of substantially non-metallic resilient material having its body portion concavo-convex form on every line of cross-section, the concave upper face lying entirely below a plane passing through the rear upper edge and the breast-corners of the lift, construed and *Held* limited to a heel-lift the concave surface of which is below a plane passing through the rear upper edge and breast-corners, and so was not infringed by a straight-edged heel. *I. T. S. Rubber Co.* v. *Essex Rubber Co.*, 270 F. R., 593.

(U. S. D. C. Ohio.) The Conrad patents, Nos. 1,167,742 and 1,167,743, for a noiseless gear the material of which is a composition of bakelite and fiber known as "bakelite micarta," of which Conrad was not the inventor, *Held* void for lack of invention over the prior art. *Westinghouse Electric & Mfg. Co.* v. *Formica Insulating Co.*, 270 F. R., 632.

(U. S. D. C. Mass.) The Wales patent, No. 1,143,740, for a machine for setting blind eyelets in shoes, *Held* valid, though of doubtful utility, but not infringed by defendant's machine when its claims are restricted, as they must be sustained. *United Shoe Machinery Co.* v. *L. Q. White Co.*, 270 F. R., 650.

(U. S. D. C. Mass.) The Wales patent, No. 1,143,741, covering a process for setting blind eyelets in shoes, *Held* invalid as covering only the function or operation of a machine. *United Shoe Machinery Co.* v. *L. Q. White Co.*, 270 F. R., 650.

(U. S. D. C. N. J.) The Pearse patent, No. 873,680, for spraying apparatus, *Held* void for lack of novelty. *Chipman Chemical Engineering Co., Inc.*, v. *Reade Mfg. Co.*, 270 F. R., 677.

Adverse Decisions in Interference.

PATENT NO. 1,273,798.

On March 28, 1921, a decision was rendered that Ralph Dwight Ernest was not the first inventor of the subject-matter covered by claims 18 and 21 of his Patent No. 1,273,798, subject, "Automatic starter-controller," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER NO. 2,650.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 20, 1921.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 285, Pipe Joints or Couplings, (Division XXXIX,) abolish the following subclass, with its definition:

Pipe and plate—
26. Junction-box type.

The patents formerly contained in this subclass have been placed in class 247, Electrical Conduits and Housings, subclass 25, Boxes, Tube connections.

THOMAS E. ROBERTSON,
Commissioner.

Patents Nos. 1,377,170 to 1,377,998.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 286—No. 2. TUESDAY, MAY 10, 1921. Price—$5 per year.
[PUBLISHED MAY 17, 1921.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of May 10, 1921.

Patents	829	No. 1,377,170 to No. 1,377,998	inclusive.
Designs	75	No. 57,806 to No. 57,880	inclusive.
Trade-Marks	174	No. 142,226 to No. 142,399	inclusive.
Labels	2	No. 22,888 to No. 22,889	inclusive.
Reissues	4	No. 15,100 to No. 14,103	inclusive.
Total	1081		

NOLAN ACT—RECIPROCITY OF BRITISH LAWS RECOGNIZED.

(Order No. 2,650.)

Department of the Interior,
United States Patent Office,
Washington, D. C., May 10, 1921.

Notice is hereby given that the laws of the United Kingdom of Great Britain and Ireland are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (H. R. 15662,) and that consequently all the privileges specified in said act will be extended to its subjects, subject to a limitation of the term under section 2 of the act as construed in Ex parte Hackett, (285 O. G., 795.)

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,119,923.

On April 4, 1921, a decision was rendered that Albert M. Bullard was not the first inventor of the subject-matter covered by claims 12, 13, and 14 of his Patent No. 1,119,923, subject, "Selective switching apparatus," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,260,708.

On April 5, 1921, a decision was rendered that Clarence D. Platt was not the first inventor of the subject-matter covered by claim 8 of his Patent No. 1,260,708, subject, "Electric-switch construction," and no appeal having been taken within the time allowed such decision has become final.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 7, 1921.

Monarch Motor Car Company, its assigns or legal representatives, take notice:

A cancelation proceeding has been instituted by this Office upon the application of Lorena W. Robinson, trading under the name of Texas Wheel & Body Company and doing business at 2500 Commerce street, Dallas, Tex., to effect the cancelation of the trade-mark registration of the Monarch Motor Car Company, 1528 Jefferson avenue, Detroit, Mich., No. 100,380, dated October 20, 1914, and the notice of such proceeding sent by registered mail to the said Monarch Motor Car Company at the said address having been returned by the post-office undelivered, notice is hereby given that unless said Monarch Motor Car Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Disclaimer.

1,235,275.—*William H. Wood*, Cleveland, Ohio. LAMP. Patent dated July 31, 1917. Disclaimer filed April 30, 1921, by the patentee.

Enters this disclaimer—

"To that part of the claim in said specification, being claim 34 thereof, which is in the following words, to wit:

"34. A lamp reflector having its upper and lower parts formed as the surfaces of revolution of different generators, said surfaces being arranged substantially about a common axis."

Notice—Photostat Copies.

Owing to difficulties encountered in obtaining the services of competent typists notice is hereby given that in order to avoid delays the Patent Office reserves the right to furnish photostat copies in lieu of type-written copies, in filling orders for copies of its records, unless otherwise specifically directed.

Communications to the Patent Office.

Rule 8. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters.

APPLICATIONS UNDER EXAMINATION.

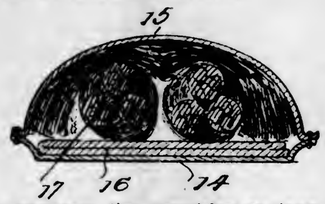
Condition at Close of Business April 30, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Dec. 17	Dec. 18	639
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Oct. 20	1,461
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Aug. 8	677
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 9	Jan. 12	1,444
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 23	Sept. 20	619
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 1	Feb. 10	771
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 16	Jan. 14	1,255
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 16	Mar. 19	523
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Aug. 30	Mar. 18	664
265	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Oct. 27	Feb. 14	965
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Feb. 7	Mar. 1	435
222	12. Machine Elements	Sept. 24	Jan. 29	936
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 30	Jan. 7	1,451
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Aug. 3	Mar. 17	799
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 24	Sept. 24	1,524
111	16. Radiant Energy; Telegraphy; Telephony	July 14	Sept. 30	1,412
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Nov. 15	Jan. 10	705
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Aug. 2	Nov. 4	1,443
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Aug. 17	Dec. 2	742
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Dec. 24	Jan. 10	997
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 1	Feb. 24	496
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Dec. 14	Feb. 17	356
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Sept. 11	Jan. 28	772
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 23	Jan. 27	773
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Feb. 28	Mar. 7	227
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 11	Dec. 8	783
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Dec. 3	Feb. 10	923
225	28. Internal-Combustion Engines	Oct. 8	Jan. 8	1,078
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Sept. 14	Feb. 1	606
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Nov. 22	Mar. 17	894
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 1	Oct. 2	1,825
???	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 2	Jan. 7	1,106
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 8	Jan. 28	678
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Mar. 28	Mar. 12	206
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 18	Mar. 31	459
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 4	Nov. 29	1,456
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Nov. 12	Nov. 23	1,528
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 22	Nov. 15	919
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 15	Sept. 11	1,561
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Oct. 13	Dec. 13	1,532
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 23	Jan. 6	838
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Aug. 21	Oct. 12	1,814
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	July 21	Aug. 21	1,137
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Sept. 22	Feb. 26	432
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 2	Dec. 15	968
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Nov. 8	Jan. 7	613
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Sept. 18	Nov. 16	1,008
	Oldest new case, June 9; oldest amended, Aug. 8.			
	Total number of applications awaiting action			44,450
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 14	Mar. 12	4,737
	Designs	Sept. 25	Dec. 1	1,959
	Labels and Prints	Jan. 3	Feb. 17	679

PATENTS

GRANTED MAY 10, 1921.

1,377,170. EMERGENCY-TIRE. WILLIAM F. AICHELE, Good Ground, N. Y. Filed Apr. 14, 1919. Serial No. 289,780. 4 Claims. (Cl. 152—23.)



1. An emergency tire comprising an inner strip of fabric to encircle a wheel, an outer strip secured to said inner strip along the edges thereof and wider than said inner strip and forming therewith a casing, said outer strip terminating short at one end of the inner strip and said inner strip terminating at the other end of the casing short of the outer strip so as to permit overlapping, a plurality of layers of relatively light fabric within the casing, a plurality of strands of heavy cable within the casing, and a layer of relatively coarse fabric applied over the cables and within the interstices thereof to fill out the casing to a substantially semi-circular configuration in cross section.

1,377,171. DEVICE AND PROCESS FOR AUTOMATICALLY REMOVING WATER FROM GAS-WELLS. FRANCIS B. ALLDREDGE, Des Moines, Iowa. Filed July 29, 1920. Serial No. 399,650. 12 Claims. (Cl. 166—1.)

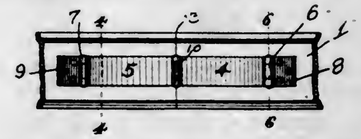


1. The process of automatically removing water from gas wells, comprising the taking of gas and water together from the well, the separating of the gas from the water, the discharge of the water thus accumulated, through a pipe having a liquid seal, and the imposing of back pressure on the discharging water.

1,377,172. PROCESS OF DEHYDRATING POTATOES. ARTHUR E. ALLEN, Kirkland, Wash. Filed Dec. 31, 1919. Serial No. 348,653. 5 Claims. (Cl. 99—5.)

4. The process of dehydrating potatoes, which consists in cooking the same until soft, forming the cooked potatoes into elongated filaments, subjecting the filaments to a drying action at a temperature below 156° F., breaking the filaments into short sections, and subjecting the short dried sections to a temperature above 156° F. for a brief period.

1,377,173. DEMOUNTABLE-TIRE RIM. LUEAN D. ALLEN, San Francisco, Calif., assignor of two-fifths to William E. Allen, San Francisco, Calif. Filed Apr. 20, 1920. Serial No. 375,226. 1 Claim. (Cl. 301—33.)

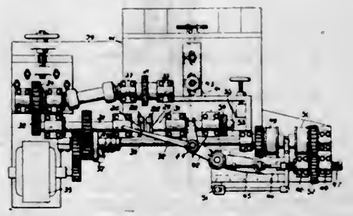


In a one piece contractile tire rim having a single transverse split, the combination of a spreader hinged to the rim on opposite sides of said split, and comprising a pair of arms with their inner ends hinged together, the parallel edges of said split being notched to provide a seat for the hinge of the inner ends of the arms when the split ends of the rim are in normal confronting position, said spreader adapted to permit the contractile properties of the rim to lessen its diameter by overlapping the ends of the transverse split, and also adapted to impart a spreading thrust in opposite directions to said ends for returning the same to normal confronting position.

1,377,174. PROCESS FOR CONTROLLING CASE-HARDENING. WILLIAM H. ALLEN, Detroit, Mich., assignor to Parker Rust-Roof Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 17, 1919, Serial No. 290,748. Renewed Jan. 17, 1921. Serial No. 437,968. 4 Claims. (Cl. 148—4.)

1. The process of hardening selected areas of articles of iron and steel which consists in coating such areas with a material which may be disintegrated by heat but is insoluble in aqueous slightly acid solutions, changing the remaining areas from metallic iron to iron phosphates, and then subjecting the articles to the action of case-hardening gases.

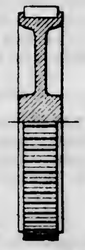
1,377,175. APPARATUS FOR MAKING GEARS. HAROLD N. ANDERSON, Cleveland, Ohio, assignor to The Anderson Patents Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 18, 1917. Serial No. 207,650. 9 Claims. (Cl. 80—16.)



1. In a machine for rolling gears, a holder for blanks which extends at each side of the tooth-receiving zone of

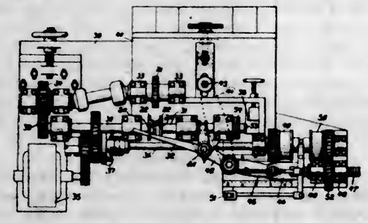
the blank so that the tooth-forming die must operate between the extensions, the space between said extensions being wider than the die and having perimetrical openings through which excess metal may escape.

1,377,176. FORGED SHROUDED GEAR. HAROLD N. ANDERSON, Cleveland, Ohio, assignor to The Anderson Patents Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 18, 1917. Serial No. 207,651. 11 Claims. (Cl. 74—41.)



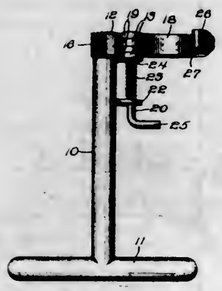
9. As an article of manufacture, a gear having forged teeth and having a shroud integral with the teeth.

1,377,177. METHOD OF MAKING GEARS. HAROLD N. ANDERSON, Cleveland, Ohio, assignor to The Anderson Patents Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 18, 1917, Serial No. 207,649. Renewed Jan. 13, 1921. Serial No. 437,126. 12 Claims. (Cl. 80—60.)



12. The method of rolling gear teeth on a blank, which consists in subjecting the tooth-receiving zone of the blank to the rolling action of a toothed die with a contemporaneous movement of approach between the blank and die, forcing a portion of the metal of the tooth-receiving zone laterally, and resisting this lateral flow of the metal so that the metal will bridge across and form continuous bands connecting the several teeth formed on the blank.

1,377,178. WRENCH. ARTHUR G. H. ANDRÈE, Oak Park, Ill., assignor to Max J. Andrèe, Oak Park, Ill. Filed Aug. 13, 1920. Serial No. 403,232. 8 Claims. (Cl. 81—78.)



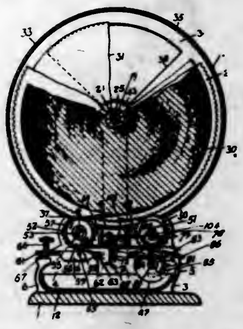
1. A wrench comprising a member capable of manual rotation and having a gripping surface eccentric to its longitudinal axis, and a jaw hinged to said member on an axis parallel, and eccentric to the axis of said member, and having a gripping surface coöperating with the gripping surface of said member.

1,377,179. SKIRT-MARKER. JESSIE BAILEY and SABINA KELLEY, Clarinda, Iowa. Filed May 22, 1920. Serial No. 383,447. 1 Claim. (Cl. 33—9.)



In a garment marker, a base having a socket, a sectional standard secured thereto, each of the said sections having a tongue the lowermost of which fits in the socket of the base, the said sections having ears and recesses therebetween, the said ears at the upper end of the bottom section being inwardly bent to form tongue engaging elements for holding the tongue of the section thereabove, and a marker holder comprising an arm adapted to engage the edges of the standard and enter the recesses thereof and having means for removably holding the arm in the said recesses.

1,377,180. ADVERTISING DEVICE FOR PAPER-TAPE-MAGAZINE HOLDERS. ROBERT HOWARD BIGGS, St. Catharines, Ontario, Canada. Filed June 24, 1920. Serial No. 391,359. 5 Claims. (Cl. 40—70.)

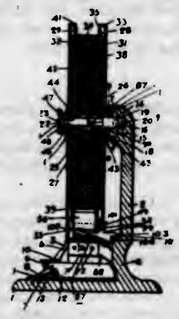


1. The combination with a roll of paper turnably mounted, of a disk carrying a series of advertisements arranged circumferentially therearound and mounted to turn with the roll of paper, a cover member having an exhibiting orifice, and means operated by the turning of the cover member for simultaneously feeding a length of paper from the paper roll and exposing the next advertisement through the exhibiting orifice.

1,377,181. ADVERTISING DEVICE FOR PAPER-TAPE-MAGAZINE HOLDERS. ROBERT HOWARD BIGGS, St. Catharines, Ontario, Canada. Filed Nov. 22, 1920. Serial No. 425,786. 1 Claim. (Cl. 211—33.)

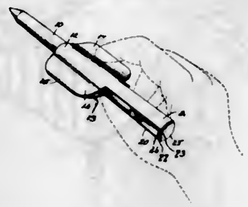
In a paper magazine holder, a supporting structure provided with a standard, a horizontal stud extending from the standard, a roll of paper turnably mounted upon the

stud, opposing disk members spring pressed toward each other, one of such disk members being geared, feed rollers driven from the aforesaid gear, a cover member turnably mounted upon the stud, a handle extending from the cover member, means for engaging the handle and geared disk during the forward movement of the handle adapted to allow of the free return movement of the cover member, resilient means for returning the cover member and handle to their normal position, means for limiting the forward and return movement of the cover member, a stationary shearing knife located below the fed portion of



the paper, a pivoted shearing knife extending over the fed portion of the paper and provided with a tail piece, spring means for holding the pivoted knife in its normal position, a cam arm swung upon the standard and provided with a prong projection extending under the tail piece of the knife, a swinging member carried by the cover member having an arm adapted to engage the cam arm as the cover member is swung circumferentially, and means for allowing the swinging arm to yield during its downward movement toward the cam arm and to be held rigid during its return movement.

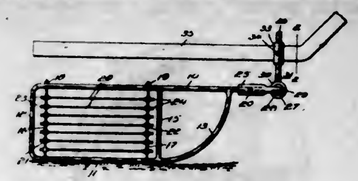
1,377,182. CRAYON-HOLDER. PHILIP M. BIONDO, Brooklyn, N. Y., assignor of one-third to Jose Messina and one-third to Charles Ciravola, Brooklyn, N. Y. Filed Apr. 3, 1920. Serial No. 371,038. 2 Claims. (Cl. 120—13.)



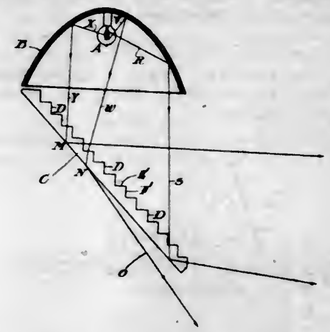
2. A crayon holder, comprising a pair of jaws adapted to clamp a crayon between them, the jaws having integral sidewise extending socket members terminating at their ends in inwardly extending outer and inner bottom members overlying one the other, a bottom plate overlying the outer bottom member and having lugs bent onto the inner bottom member, the jaws having integral upwardly extending connecting flanges integrally connected with each other at the top, the said jaws having integral downwardly extending and outwardly flaring fingerpieces adapted to be taken hold of by the user for pressing the jaws toward each other to clamp the crayon in place.

1,377,183. CULTIVATOR-FENDER. ALONZO E. CALK, Brady, Tex. Filed June 30, 1920. Serial No. 393,030. 2 Claims. (Cl. 97—13.)

1. A cultivator fender including a horizontal member, a support coupled at one end to the horizontal member and including a laterally directed arm, a sleeve adjustably engaging over said arm, a support including a horizontal socket adjustably engaging over said sleeve and a vertical arm, and means adapted to attach said vertical arm to a cultivator.

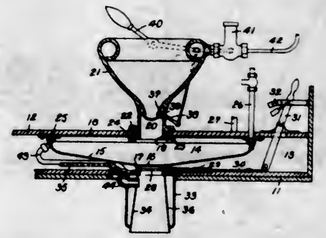


1,377,184. LIGHT PROJECTION. DANIEL F. COMSTOCK, Brookline, Mass., assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1916. Serial No. 92,750. 10 Claims. (Cl. 240—41.)



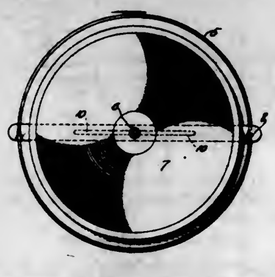
1. Projection apparatus comprising means for producing a concentrated beam of light having substantially parallel rays and having rays which are not parallel with said rays, a transparent reflector obliquely disposed in the path of the beam of light at such an angle that the parallel rays make substantially critical angles of incidence with the reflector so that a part of one class of rays is transmitted and a part of the other class of rays is reflected, the parallel rays being so separated from the non-parallel rays as to produce a beam sharply defined on at least one side.

1,377,185. RAILWAY WATER-CLOSET. JAMES A. CORRY, Ottawa, Ontario, Canada, assignor to Thomas Birkett, Ottawa, Ontario, Canada. Filed Dec. 30, 1918. Serial No. 268,844. 5 Claims. (Cl. 4—32.)



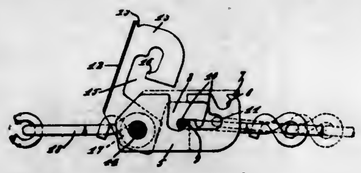
1. In a device of the class described, an inverted frustoconical reservoir, a discharge pipe, a heating jacket for said discharge pipe, a mouth ring for the reservoir secured to said jacket and holding the discharge pipe in place.

1,377,186. PHONOGRAPH ATTACHMENT. WALTER ROCKWELL CRIPPEN, Pelham, N. Y. Filed Feb. 26, 1920. Serial No. 361,550. 2 Claims. (Cl. 274—1.)



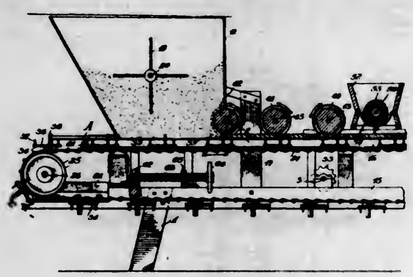
1. As an article of manufacture, a lifter for a phonograph record, comprising, a thin flexible strip having an opening of a size adapted to receive a phonograph turntable spindle and adapted to lie flat upon and be carried by the phonograph turntable with one end of said strip projecting beyond the edge of said table.

1,377,187. CHAIN-CLASP. EARL E. DANA, Stockport, Iowa. Filed Jan. 27, 1921. Serial No. 440,392. 1 Claim. (Cl. 24—242.)



In a clasp, a body portion having a cut out portion extending from one of the side edges thereof, a lug formed on one of the walls of the cut out portion, a hook member formed adjacent to one end of the body portion, said lug adapted to engage a link of a chain, a pivoted locking member embracing the body portion and extending inwardly terminating at a point flush with one edge of the lug to permit the locking member to move thereover, and said locking member having an opening adapted to register with the cut out portion of the locking member.

1,377,188. TILE-FORMING MACHINE. HANS P. DOMINE, Rochester, N. Y. Filed Dec. 27, 1919. Serial No. 347,688. 11 Claims. (Cl. 25—43.)



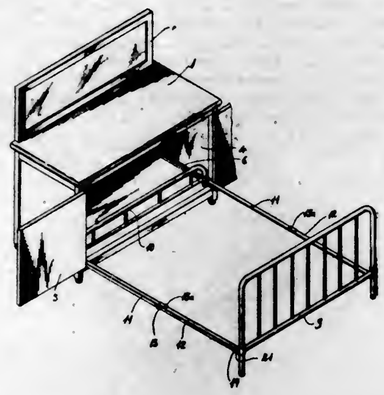
3. In a tile making machine, the combination with a hopper for the plastic material having an open bottom, of a conveyer arranged to travel beneath said hopper, a plurality of separate detachable mold plates arranged to rest upon the conveyer, laterally arranged fixed tracks paralleling the conveyer above the level of the floors of the molds and adapted to guide the molds and to shape the lateral faces of their contents and a roller above the conveyer for shaping the top surface of the work, the ends of the roller being arranged to run close against the respective tracks.

10. In a tile making machine, the combination with a hopper for plastic material having an open bottom, a conveyer arranged to travel beneath said hopper and molds carried by the conveyer, of a low speed spreading roller above the conveyer arranged to first contact and pack the material in the molds and turning with the conveyer and a high speed finishing roll adapted to subsequently smooth the surface of the work and turning in a direction against that of the conveyer.

1,377,189. ORE-CONCENTRATION PROCESS. BENJAMIN H. DOSENBACH, Butte, Mont.; Edna M. Dosenbach executrix of said Benjamin H. Dosenbach, deceased. Filed Nov. 16, 1917. Serial No. 202,268. 3 Claims. (Cl. 83—85.)

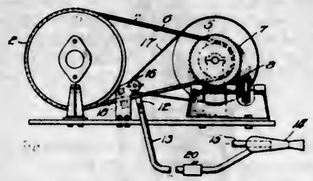
1. In a process of flotation concentration of ores containing a plurality of floatable metalliferous constituents the operations of introducing into the ore pulp a gaseous modifying agent tending to cause flotation of all of said constituents and simultaneously introducing a gaseous substance which has a deterrent effect upon the flotation of some of the metalliferous constituents of the ore but not upon others.

1,377,190. COMBINATION-BED. FRANCISZEK DUDEK, Johnstown, Pa. Filed Feb. 9, 1920. Serial No. 357,381. 1 Claim. (Cl. 5—52.)



In a bed adapted when folded to present the appearance of a dresser, the combination with a hollow rectangular receptacle provided with a raised floor, castered feet extending therebelow and swinging doors adapted to cover the front of the receptacle, of tracks on said floor adjacent the side walls of said receptacle, a tubular head element having rollers at its lower extremities movable over said tracks, means at the front of said tracks limiting the outward movement of said rollers, lugs on said head elements extending to the front immediately above said rollers, sectional rails pivoted in said lugs, hinges connecting the rail sections permitting folding in one direction only, a tubular foot element having rollers at the bottoms, and lugs on said foot element in which the outer sections of said rails are pivoted, said lugs being raised above the last named rollers to maintain said rails in a level plane when extended, all of said elements being containable in said receptacle when folded.

1,377,191. SELF-CLEANING FILTER FOR CARBURETER-INTAKES. RAY L. EDDY, Chicago, Ill., assignor of one-half to William H. Washburne, Chicago, Ill. Filed May 12, 1919, Serial No. 296,659. Renewed Mar. 23, 1921. Serial No. 454,901. 2 Claims. (Cl. 183—61.)



1. The combination with the intake of a carbureter, of a filtering element, a suction cleaning device for the filtering element, an engine exhaust conduit, and a connection between said exhaust and said cleaning device for producing a suction in said device.

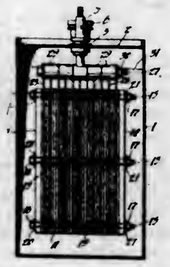
1,377,192. PRODUCTION OF MOLDED ARTICLES. THOMAS A. EDISON, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Jan. 18, 1919. Serial No. 271,899. 17 Claims. (Cl. 106—1.5.)

3. A composition adapted for use in forming molded articles, comprising a finely divided filler containing cotton flock held together by a binder comprising a resin and a drying oil, substantially as described.

1,377,193. PRODUCTION OF MOLDED ARTICLES. THOMAS A. EDISON, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Jan. 23, 1919. Serial No. 272,773. 19 Claims. (Cl. 106—1.5.)

1. A composition adapted for use in forming molded articles, comprising a finely divided filler material held together by a binder comprising an oxidized resin, substantially as described.

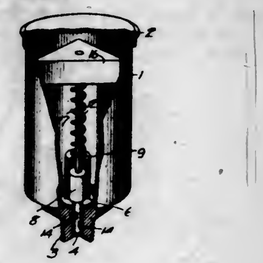
1,377,194. STORAGE BATTERY. THOMAS A. EDISON, West Orange, N. J. Filed June 16, 1920. Serial No. 389,290. 28 Claims. (Cl. 204—29.)



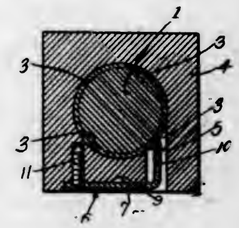
1. In a storage battery, a plurality of alternately disposed positive and negative elements, each of said elements comprising a conductive, metallic foil and finely divided active material maintained under pressure firmly in contact with said metallic foil, substantially as described.

1,377,195. OILER. ROBERT FRICK, Chicago, Ill. Filed Mar. 29, 1920. Serial No. 369,645. 11 Claims. (Cl. 184—69.)

8. An oiler having a reservoir with an opening at the bottom, an open ended cylinder arranged with its open end downward and seating on the bottom of the reservoir around said opening, a vertically movable plunger fitting slidably within said cylinder, a stem passing up through the upper, closed end of the cylinder, the stem being slidable relatively to the cylinder, means fastened to the stem above the cylinder for reciprocating said stem, said stem also projecting downward into the opening at the bottom of the reservoir, and means for guiding said stem within said opening.



1,377,196. LOCK-NUT AND BOLT. MATHIAS E. GILLESPIE, Roseburg, Oreg. Filed July 29, 1919. Serial No. 313,977. 1 Claim. (Cl. 151—11.)

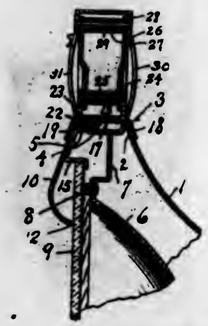


In a device of the class described a bolt having threads and provided with a longitudinal seat intersecting the threads; a square nut on the bolt, the nut having a superficial recess disposed in one face of the nut, the recess being spaced from all of the edges which define said face, the nut having a superficial notch located in said face midway between the longitudinal edges of said face, the notch being deeper than the recess, one extremity of the notch opening through the outer end of the nut, and the other extremity of the notch terminating at the recess, thereby leaving said face continuous and unbroken between one longitudinal edge of the recess and the adjacent longitudinal edge of the nut, the nut being provided with a passage disposed at one end of the recess and opening through said face; and a spring tongue in the recess and provided at one end with an angularly disposed pawl located in the passage and coöperating with the seat; and a removable securing device passing through the other end of the pawl and connecting the same with the nut, the securing device being located within the contour of said face.

1,377,197. LAMP. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,501. 4 Claims. (Cl. 240—41.)

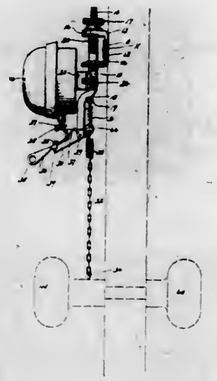
1. In a lamp, the combination of a lamp body having a circular shoulder, a lens ring at the open end of the body,

a split locking band extending around the lens ring and body and having inturned marginal flanges to engage



them, and a toggle mechanism to draw the ends of the band together, and comprising a clasp and links connecting one end of the clasp to each end of said band.

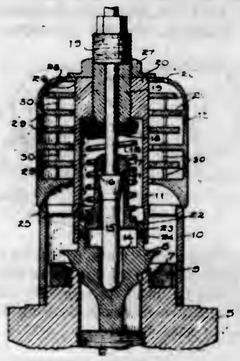
1,377,198. BURGLAR-ALARM. MAX GOLDSTONE, New Haven, Conn. Filed Oct. 8, 1919. Serial No. 329,200 7 Claims. (Cl. 116—97.)



1. A burglar alarm comprising a base member fixed relatively to the door knob, having a carrier member adjustable thereon substantially parallel with the door, an alarm bell mounted on said carrier member and actuated through a push mechanism, a lever having a part thereon in contact with said push mechanism and pivotally connected with the carrier member, and an operative connection between the door knob and member, whereby movement of the door knob actuates said push mechanism through the swinging of said lever.

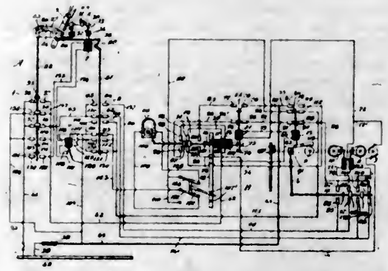
1,377,199. SAFETY-VALVE. COLIN GRANBY, Chicago, Ill. Filed Oct. 1, 1919. Serial No. 327,615. 1 Claim. (Cl. 137—53.)

In a pop safety valve, a base having a fluid pressure inlet and a fluid pressure escape chamber, a pop valve mechanism controlling the escape of the fluid pressure from the inlet into the chamber, said mechanism including a valve and a spring for seating the same, a valve stem loosely engaging the valve, and abutments loose on the stem, between which abutments the spring is located, one



of said abutments and the stem being swivelingly connected, and the valve having a guide chamber into which said abutment extends.

1,377,200. POWER-ACTUATED SYSTEM OF SWITCH CONTROL. GARDNER B. GRAY and ARBA G. WILLIAMSON, Pittsburgh, Pa.; Helen F. Gray executrix of said Gardner B. Gray, deceased; said executrix and said Williamson assignors, by mesne assignments, to Pittsburgh Train Control Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 12, 1916. Serial No. 90,666. 15 Claims. (Cl. 246—137.)



1. A system of switch control comprising: a switch, a switch machine including a plurality of power units for unlocking, moving and locking the switch, and a single manually operable lever movable in opposite directions for controlling the power units by a plurality of movements in either direction.

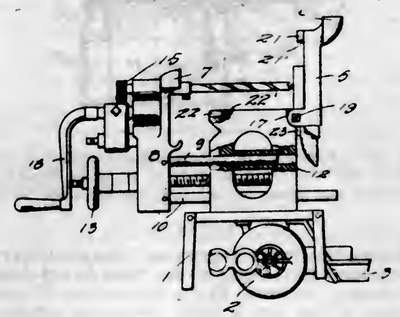
1,377,201. INSECT-CATCHER. BENJAMIN R. JOLLY, Raleigh, N. C.; the Raleigh Savings Bank and Trust Company, executor of the will of said Benjamin R. Jolly, deceased. Filed July 29, 1919, Serial No. 314,016. Renewed June 29, 1920. Serial No. 392,775. 5 Claims. (Cl. 43—139.)



1. An insect catcher comprising an elongated tubular holder apertured at one end and closed at its opposite end, consisting of two cylindrical sections, one of which forms a piston cylinder and the other of which constitutes a trap, a perforated connecting member joining the adjacent ends

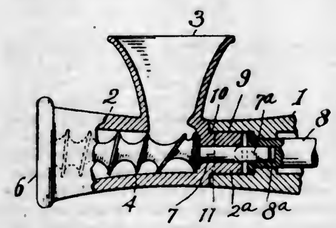
of said sections, a tubular piston rod extending into the holder through its open end and also slidable through the connecting member, a piston on the rod in the first mentioned section of the holder, a spring around the rod and compressed between the piston and the said connecting member, relatively engaging means carried by the said rod and the connecting member, including a spring controlled manually shiftable latch member, the said inner end of the piston rod opening into the trap section, and a flaring suction mouth at the outer end of the piston rod as described.

1,377,202. COMBINATION-TOOL. HENRY B. KEIPER, Lancaster, Pa.; Lucy R. Keiper, Nancy Keiper Long, and George Hammond, executors of said Henry B. Keiper, deceased, assignors to Champion Blower & Forge Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed Feb. 28, 1920. Serial No. 362,051. 7 Claims. (Cl. 29—32.)



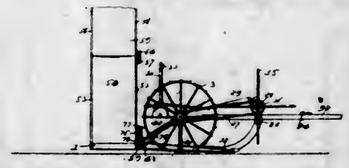
1. In a device of the character described, a pivotally mounted combined anvil, vise jaw and back stop for a drill or other tool, adapted to be supported in either a substantially horizontal or vertical position, in combination with a movable vise jaw and means for moving the same toward and from the anvil in either position of the latter.

1,377,203. CHOPPING-MACHINE. WILLIS E. KIDNEY, Cleveland, Ohio, assignor to The Cleveland Electric Machine and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 11, 1918. Serial No. 211,408. 2 Claims. (Cl. 17—20.)



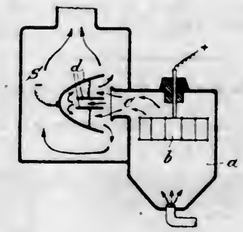
1. In a macerating machine, a support member having a socket formed therein, a shaft extending into said socket and having an irregular shaped opening in the end thereof, a removable head member having an extension, a macerating member within the head member, said macerating member having a shaft which extends through an opening in the said extension, the end of the said macerating shaft being adapted to fit in the irregular shaped opening in the first mentioned shaft with a sliding fit, the said extension on the head fitting in the socket of the support member, one of said members having a projection, the other of said members having a depression, the said projection and extension being located upon engaging surfaces of the head and support, said projection and depression engaging to properly register and hold against relative rotation between the head and support.

1,377,204. HARVESTING-MACHINE. JACOB A. KOHLRUSS, Gillette, Wyo., assignor of one-half to Mrs. M. Frazer, Gillette, Wyo. Filed May 12, 1920. Serial No. 380,873. 8 Claims. (Cl. 56—184.)



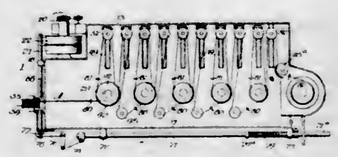
1. In a machine as set forth, a wheel supported frame having arcuate guides and a mowing mechanism, a driving element mounted on the frame, members pivotally mounted upon the driving element, a reel mounted in the arcuate guides whose radii extend from the driving element, said reel operatively connecting with said pivoted members, whereby the reel is capable of movement in a vertical plane toward and from the mowing mechanism.

1,377,205. PURIFICATION OF GASES. GEORG KRAUSE, Munich, Germany. Filed Nov. 24, 1913, Serial No. 802,701. Renewed Oct. 22, 1920. Serial No. 418,775. 1 Claim. (Cl. 183—7.)



Apparatus for purifying gas, comprising a charging chamber and a precipitating chamber with a passage of restricted area therebetween, a plurality of electrodes of like polarity arranged in said charging chamber in the path of the gases adapted to flow therethrough, and a plurality of electrodes of like polarity arranged in said precipitating chamber in the path of the gases adapted to flow thereinto through said passage from said charging chamber, the electrodes in one of said chambers being of a different polarity with respect to the electrodes in the other of said chambers.

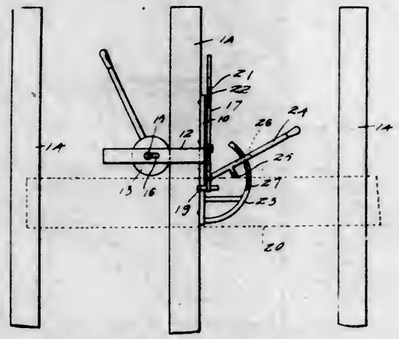
1,377,206. WIRE-DRAWING MACHINE. JOHN W. LAUREN, Dixon, Ill. Filed Dec. 6, 1917. Serial No. 205,749. 2 Claims. (Cl. 205—14.)



1. A wire drawing machine, in combination, a table, a series of reducing dies mounted thereon, a plurality of

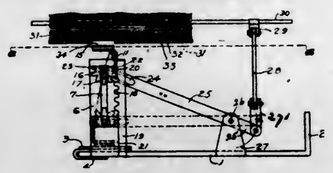
drawing heads rotatably supported in said table, the heads being arranged ahead of the dies in the direction of travel of the wire, means for tensioning the wire on the heads including a roller adapted to rotate in a horizontal plane, and a mounting for said roller which mounting is of such nature as to be swung to permit the roller to be moved into and out of tensioning position.

1,377,207. SHEATHING-VISE. HENRY A. LEE, Montevideo, Minn. Filed June 23, 1920. Serial 391,218. 5 Claims. (Cl. 144—302.)



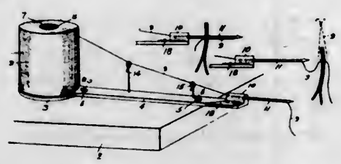
1. A siding or sheathing clamp having a base plate for contact with the side surface of a frame studding and means for securing the same in position, and a grappling lever pivotally mounted upon said plate and arranged for operation in a plane at right angles to said securing means and provided with a head for engaging and securing a siding or sheathing board.

1,377,208. AUTOMATIC MARKER. BERNARD LEVINE, New York, N. Y., assignor of one-half to The H. Wolff Estate. Filed Jan. 24, 1921. Serial No. 439,403. 11 Claims. (Cl. 101—301.)



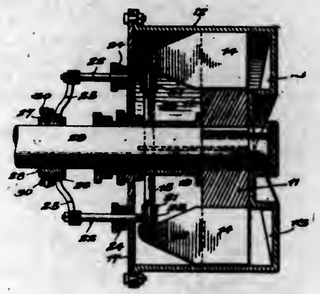
1. In a device of the class described, a shaft movable in slots, a stamp mounted on said shaft, a pinion carried by said shaft, means to cause said pinion to turn half a revolution and be prevented from turning further while traveling parallel to said slots.

1,377,209. SEWING DEVICE. HENRY C. LEWIS, Pittsburgh, Pa. Filed July 13, 1920. Serial No. 395,973. 2 Claims. (Cl. 223—37.)



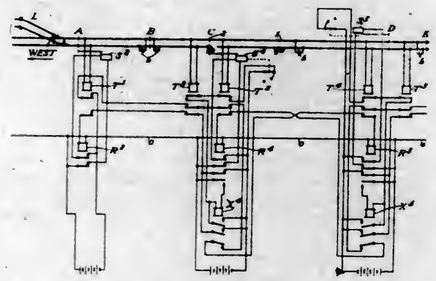
1. In a device of the character described, a metal strap-like member adapted to be attached to a table or like support, a vertically extending bearing at the rear end of said member adapted to support a twine drum, and a needle socket at the outer end of said member adapted to support a needle, said socket having an entrance at the rear end for the admission of the twine from said drum to said needle.

1,377,210. PUMP. HARVEY B. LINDSAY, Oakland, Calif. Filed Sept. 9, 1920. Serial No. 409,074. 9 Claims. (Cl. 103—44.)



1. In a mechanism of the character described, a casing, a rotor therein, vanes movable in an axial direction on the rotor, and means for adjusting the vanes on the rotor.

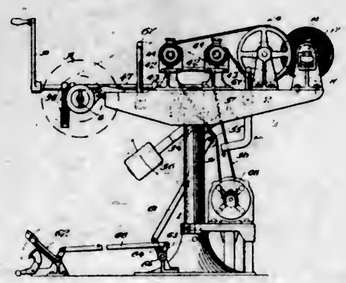
1,377,211. RAILWAY SIGNALING. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1919. Serial No. 328,484. 6 Claims. (Cl. 246—33.)



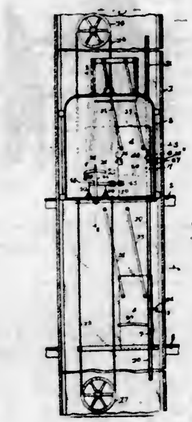
5. In combination, a railway track divided into two blocks, track circuits for said blocks, a signal for each block, a line relay for the forward signal, means for controlling said line relay by the track circuits for the forward block, means for normally controlling said rear signal by said line relay and by the track circuits for the rear block, an auxiliary relay for said forward signal arranged when energized to remove the rear signal from control by said line relay, a pick-up circuit for said auxiliary relay including a back contact of said line relay and a contact operated by the forward signal and closed or open according as said signal indicates proceed or stop, and a holding circuit for said auxiliary relay including a front contact thereof.

1,377,212. FABRIC-SMOOTHING MACHINE. ROBERT MCCLENATHEN, Cuyahoga Falls, and JOHN NOALL, Akron, Ohio, assignors to Kelly Springfield Tire Co. Filed May 14, 1920. Serial No. 381,468. 12 Claims. (Cl. 26—8.)

2. In a machine of the character described, a slidably mounted supporting arm having one free end adapted to support a revolving feeding spool, a rotatably mounted arbor having one free end equipped with an expandible casing adapted to carry and revolve a receiving spool, the other end of said arbor equipped with a speed regulating cone pulley operable at variable speed through connection with a companion cone pulley, a pair of revolu ble smoothing rollers located between said supporting arm and said arbor, means to revolve said arbor, said cone pulleys, and said smoothing rollers in association with a moving cloth liner.



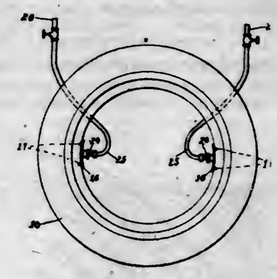
1,377,213. SAFETY-DOOR AND DOOR ATTACHMENT FOR ELEVATORS. GEORGE J. MEYER, Milwaukee, Wis. Filed Aug. 9, 1919. Serial No. 316,339. 14 Claims. (Cl. 187—49.)



1. The combination with the members of an elevator well, the landings and movable car, of an inner door for the car, a vertically disposed guard between the landings, and a member carried by the door of the car, adapted to engage the guard to prevent an opening movement of the door while allowing the car to freely move in a vertical direction.

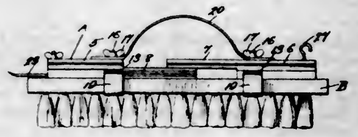
1,377,214. STEAM CONNECTION FOR HOLLOW CORES. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 28, 1920. Serial No. 354,621. 5 Claims. (Cl. 285—1.)

2. A steam connection for a hollow core comprising a plate attached to the inner periphery of the core, a gasket retained in position by said plate, and means adapted for



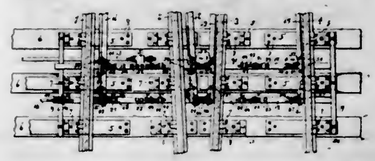
connection with a source of steam and adapted to abut against said gasket.

1,377,215. ADJUSTABLE BRUSH-HOLDER. VALENTINE H. MILLER, St. Louis, Mo. Filed Nov. 6, 1919. Serial No. 336,190. 2 Claims. (Cl. 15—54.)



1. The combination of a brush holder comprising two sections adjustably joined together, clamps extending transversely of the sections, set screws for adjusting the clamps, and a strap extending between the set screws of the sections forming a handle.

1,377,216. DOUBLE-SLIP RAILWAY-SWITCH. JAMES C. MOCK, Detroit, Mich. Filed Mar. 22, 1920. Serial No. 367,788. 7 Claims. (Cl. 246—416.)



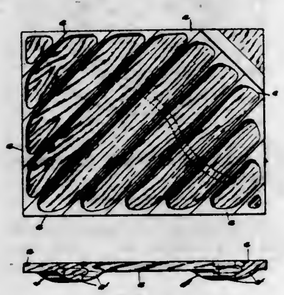
7. In a two track switch mechanism, the combination of two pairs of rails and a switch point for each rail, an operating bar and a locking bar connected to all said switch points, said bars embodying insulating material to separate electrically the two switch points of each pair of rails.

1,377,217. PROCESS OF RECOVERING METALLIC CONSTITUENTS FROM A MIXTURE THEREOF. GEORGE W. MULLEN, Elmhurst, N. Y., assignor to Howard B. Bishop, Summit, N. J. Filed Jan. 14, 1920. Serial No. 351,437. 4 Claims. (Cl. 204—15.)

1. The process of recovering metallic constituents from a mixture containing, among others, tin, which consists in reducing the mixture with a sulfatizing material such as niter cake, and a reducing agent, for the production of sulfids of the respective metal constituents of the mixture, digesting the product with water and thus separating the

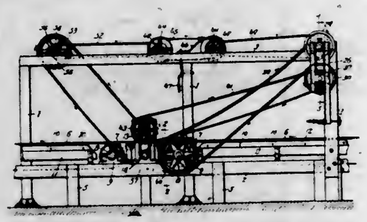
soluble from the insoluble sulfids, withdrawing the insoluble sulfids, converting the soluble sulfids into oxids of their metals and recovering the metals therefrom by smelting with a reducing agent.

1,377,218. PIANOFORTE-SOUNDBOARD. JAMES ALFRED MURDOCH, Kentish Town, London, England. Filed June 12, 1919. Serial No. 303,623. 3 Claims. (Cl. 84—192.)



1. A pianoforte soundboard composed of parts having increased thickness at their edges, said edges being provided with means for securing the parts together, and producing a complete soundboard in which the secured thickened edges form ribs or bars, for the purpose specified.

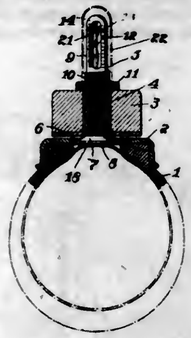
1,377,219. CUTTING-MACHINE. JOHN M. NORTON, Fort Dodge, Iowa, assignor to The Plymouth Gypsum Co., Fort Dodge, Iowa, a Corporation of Iowa. Filed May 14, 1920. Serial No. 381,233. 16 Claims. (Cl. 164—68.)



1. In a cutting machine of the character described, the combination of a rotative cutter, driving mechanism for said cutter including stop motion mechanism comprising a driving gear member and a driven gear member having intermittent driving engagement with each other, and said driving gear member having positive driving connection with said cutter, and slow motion gearing driven by said driving gear member and having independent driving connection with said cutter, whereby said driven gear member is advanced into driving engagement with said driving gear member.

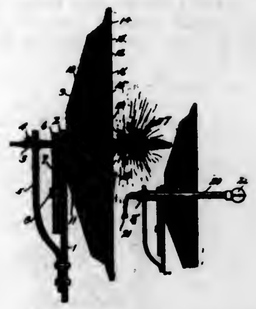
1,377,220. CONTINUOUS-PRESSURE GAGE. ALFRED L. NYE, Gibson, N. Mex. Filed Aug. 5, 1919. Serial No. 315,458. 2 Claims. (Cl. 73—110.)

1. A pneumatic tire pressure gage comprising a one-piece hollow body portion, a transparent tube in said body portion, the upper part of the body having a cut-out portion with graduations marked opposite the same, a pliable diaphragm presenting a plane surface and secured around its edge to the end of the body portion and normally lying in a plane coincident with the plane in which the end of the body lies, and a liquid in said tube and body portion



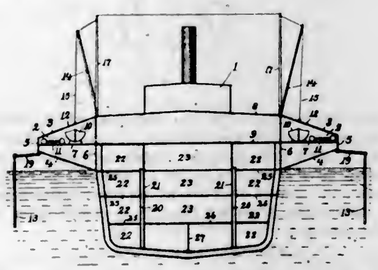
and adapted to rise and fall to register the pressure exerted on said diaphragm.

1,377,221. AMUSEMENT DEVICE. JOSEPH POPPER, Brooklyn, N. Y., assignor, by direct and mesne assignments, of one-half to Baird-Daniels Co., Inc., New York, N. Y., a Corporation of New York, and one-half to Mrs. Ruby H. Popper, Brooklyn, N. Y. Filed Mar. 9, 1920. Serial No. 364,402. 11 Claims. (Cl. 40—130.)



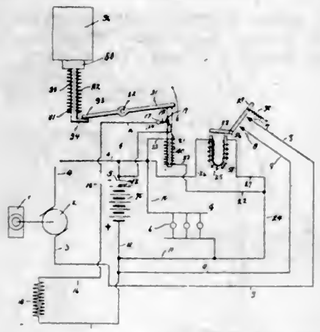
10. An amusement device of the character described comprising a reflector, and a light movable along the axis of said reflector.

1,377,222. SHIP. JAMES W. RUSSELL, San Diego, Calif. Filed May 31, 1918. Serial No. 237,628. 5 Claims. (Cl. 114—68.)



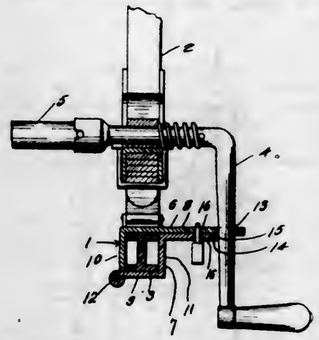
3. A ship in combination with a buffer for each side thereof projecting for a considerable distance from the ship's sides, arms pivoted to the outer extremities of each buffer and reaching out therefrom, and buoyant shields pivotally attached to the outer ends of said arms.

1,377,223. AUTOMATIC FARM LIGHTING AND POWER SET. BERNHARD SCHILLING, Paterson, N. J. Filed Feb. 9, 1920. Serial No. 357,396. 2 Claims. (Cl. 290—30.)



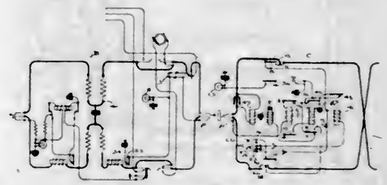
1. An automatic electric power set comprising, in combination with a two-cycle oil engine and a dynamo connected thereto, and a storage battery, means for starting said engine when the battery voltage has fallen to a given degree so as to drive said dynamo to charge said battery, said means consisting of an electromagnet, a switch in series with said battery, said electromagnet bridged across said battery and switch, a solenoid bridged across said switch and battery, an armature subject to actuation by said electromagnet, contacts adapted to be closed or opened by said armature, said contacts being interposed in electrical circuit between said dynamo and said battery, a heat ignition coil located in the combustion chamber of said engine, a plunger adapted to be moved longitudinally by said solenoid, contacts adapted to be closed or opened by said solenoid plunger, said last named contacts being in electrical series with said coil and said battery, and additional means actuated by said solenoid plunger to prevent operation of said engine by its own fuel, said last-named means being also operable to release said engine to allow operation thereof by its own fuel.

1,377,224. AUTOMOBILE-LOCK. JOHN K. STROSNIDER, Sugar Grove, Ohio. Filed Sept. 10, 1919. Serial No. 322,858. 1 Claim. (Cl. 70—130.)



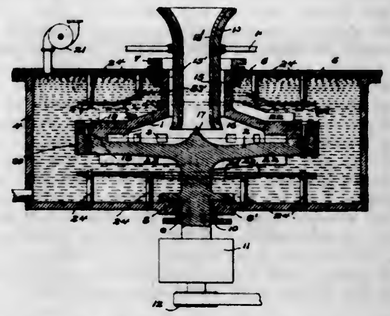
As an article of manufacture, a locking device for a motor vehicle starting crank comprising a pair of angle plates provided in one edge with interlocking rolled portions forming hinge members, a hinge pin extended through said hinge members, said plate being adapted for clamping engagement around the vehicle axle, one of said plates having an outturned portion connected with its upwardly directed end and provided with a concaved recess in its outer edge, the remaining plate resting upon said outwardly directed portion of the first mentioned plate being provided with a starting crank accommodating opening, a portion of the wall of which is parallel with the wall of the concaved recess in the first mentioned plate, whereby the starting crank may be engaged by both plates when extended through the opening of the second mentioned plate, said plates being provided in their parallel portions with registering openings of a comparatively smaller diameter, and a locking member removably engaged through the last mentioned openings of said plate to lock the plates in engagement with the starting crank.

1,377,225. SEMI-AUTOMATIC TELEPHONE SYSTEM. ARTHUR J. SEYMOUR, St. Paul, Minn., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1919. Serial No. 283,466. 18 Claims. (Cl. 179—27.)



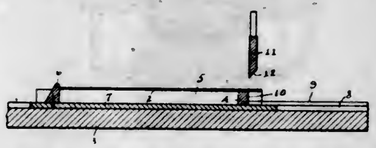
1. In a semi-automatic telephone system, a cord circuit, trunk lines accessible thereto, a calling device, means for automatically associating said device with a trunk line when seized by the cord circuit, and means controlled by a called subscriber to whom a connection is extended for removing the calling device from the trunk line.

1,377,226. METHOD AND APPARATUS FOR PRESSURE DIE-CASTING. EARL H. SHERBONDY, Cleveland, Ohio. Filed May 14, 1918. Serial No. 234,561. 7 Claims. (Cl. 22—65.)



I. A casting apparatus, comprising die-forming meaus adapted to rotate at high speed, means for feeding a molten mass to said die-forming means, means to immerse said die-forming means in a cooling medium, said die-forming means being provided with means on the outside thereof to pick up said cooling medium and cause a forced circulation thereof.

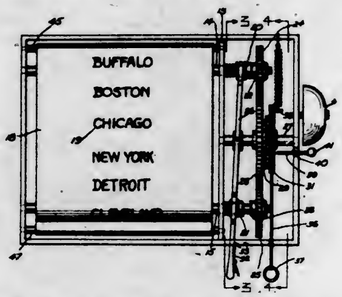
1,377,227. SECONDARY BATTERY. THOMAS SPENCER, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed July 24, 1918. Serial No. 246,433. 15 Claims. (Cl. 204—29.)



1. An electrode member for secondary batteries comprising a tubular casing having transverse slits in its wall,

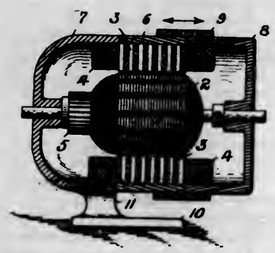
and filling material in said casing exposed at such slits, the portions of said wall between such slits being inclined upwardly and outwardly whereby the washing effect of the upward motion of the gases and electrolyte during charging is diminished.

1,377,228. STATION-INDICATOR. MICHAL SZCZYGIEL, Fall River, Mass. Filed Apr. 1, 1920. Serial No. 370,596. 1 Claim. (Cl. 40—93.)



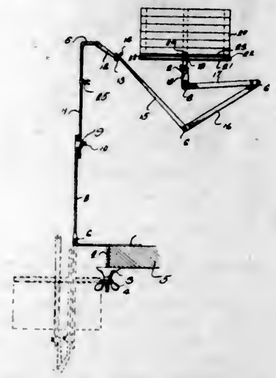
A device of the class described comprising a casing having two compartments therein, a drum mounted horizontally in the upper portion of said casing, a second drum similarly mounted in the lower portion thereof, shafts extending from each of said drums, said drums lying in the first of said compartments, the shafts thereof extending into the second of said compartments, a gear on each of said shafts in said second compartment, a shaft mounted between said first-named shafts and having a gear in mesh with both of said first-named gears, each of said first-named gears having a rigid sleeve having serrations on one side thereof, each of said first-named shafts having slidable sleeves having serrations adapted to engage said first-named serrated serrations, springs normally urging said slidable sleeves toward said rigid sleeves, a lever pivotally mounted in said last-named shaft, said lever having engagement with each of said slidable sleeves, means for locking said lever in its extreme positions, a pulley loosely mounted on said last-named shaft, a pawl pivoted to said pulley, a ratchet wheel rigid with said last-named gear and in engagement with said pawl, a pin protruding from the side of said pulley, a spring having one end attached to said pin and the other to said casing, a gong on said casing, a hammer adapted to strike said gong, said hammer being pivoted in said casing and lying in the path of said pin, a cord attached to said pulley, and a web adapted to be wound about said drums.

1,377,229. DYNAMO-FIELD REGULATOR. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Tanner Engineering Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed July 25, 1917. Serial No. 182,662. 3 Claims. (Cl. 171—227.)



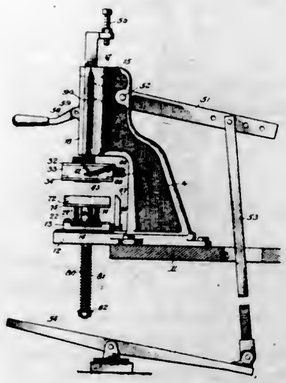
1. A dynamo-electric machine including a plurality of field poles and an armature, a yoke connecting said poles, a member of magnetic material surrounding and mounted upon said yoke, and means whereby said member may be adjusted axially of the machine.

1,377,230. BOOK-SUPPORT AND WRITING-TABLE. HENRY S. TAYLOR, Dallas, Tex. Filed Aug. 7, 1919. Serial No. 315,913. 1 Claim. (Cl. 45—82.)



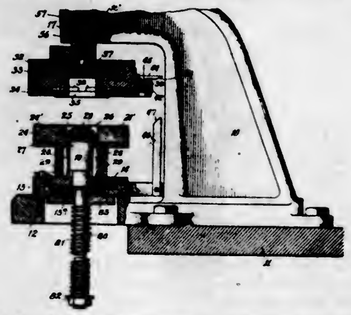
A book support comprising a book rest, a clamp adapted to grip an overhanging member, linkages interconnecting the clamp and rest allowing a universal movement in positioning the book rest and the collapsing of the members below the overhanging member, said linkages including an extension of said clamping member coplanar therewith to extend the overhanging member and a pivoted joint at the end of said extension to a rod, a longitudinal eye in said rod, an extension bar slidable in said eye provided with a member pivoted to its end and slidably mounting a set of pivoted members.

1,377,231. MACHINE FOR COVERING METALLIC BOXES. ADELBERT A. THOMAS, Chicago, Ill., assignor to Cresco Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 26, 1918. Serial No. 255,803. 3 Claims. (Cl. 93—54.)



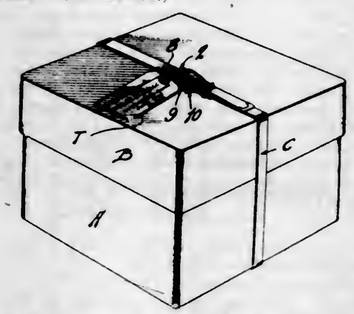
1. In a machine of the character described, the combination of coöperating die-members for pressing a cover on a box, of transversely movable in-folders, means for conjointly operating said infolders, automatic means to lock the in-folders in operative position and means for releasing the locking means.

1,377,232. MACHINE FOR COVERING METALLIC BOXES. ADELBERT A. THOMAS, Chicago, Ill., assignor to Cresco Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1920. Serial No. 413,594. 5 Claims. (Cl. 93—54.)



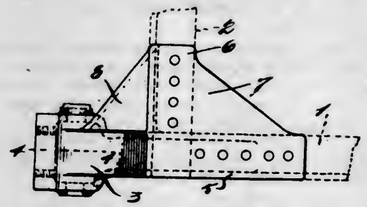
1. In a machine for covering cases, the combination of coöperating dies one of which is provided with an opening with the cover folded around its sides, a series of slidable folders for folding the edge of the covering over the edge of the box, and a shifter for said folders comprising a member operatively connected to the folders and slidable in a rectilinear path.

1,377,233. BUCKLE. GEORGE R. THURMAN, St. Louis, Mo., assignor of one-half to Shirley D. Gregson, St. Louis, Mo. Filed Feb. 11, 1921. Serial No. 444,163. 6 Claims. (Cl. 24—73.)



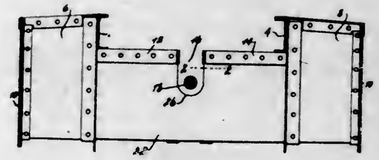
4. A buckle comprising a frame having side members, strap-securing means between said side members, and a tag-attaching clip comprising a keeper extending outwardly from one of said side members, said keeper having an end adapted to pass through the eye of a tag, and yielding means coöperating with said end of the keeper to secure the tag.

1,377,234. MOTOR-VEHICLE CHASSIS. CHARLES A. WARD, Mount Vernon, N. Y. Filed Apr. 3, 1919. Serial No. 287,163. 6 Claims. (Cl. 267—54.)



3. An integral spring supporting goose-neck and frame corner brace for vehicle frames comprising a triangular corner bracing web or base adapted to be located in the plane of the vehicle frame, a second triangular gooseneck side-forming and bracing web extending from one side of said first-mentioned web in a plane normal thereto, and a third triangular gooseneck bracing web extending between said gooseneck and another side of said first-mentioned web in a plane oblique to one of said aforementioned two planes.

1,377,235. BATTERY-VENTILATING MEANS FOR ELECTRIC VEHICLES. CHARLES A. WARD, Mount Vernon, N. Y. Filed June 3, 1920. Serial No. 386,265. 4 Claims. (Cl. 180—65.)



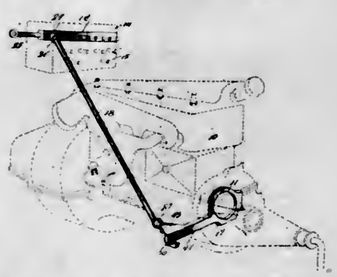
1. In an electric vehicle having a driving shaft extending from near the front end of said vehicle to the rear axle, a battery cradle centrally divided to provide for the passage of the driving shaft between the two halves thereof, said cradle having battery inclosing walls upon each side of said shaft, and said walls being each provided in proximity to said shaft with a movable portion to provide ventilation for said batteries.

1,377,236. AUTOMATIC RIFLE. GLENN C. WATSON, Cleveland, Ohio. Filed Apr. 26, 1918. Serial No. 230,970. 42 Claims. (Cl. 42—3.)



1. An automatic rifle comprising a barrel, a stock, a hollow receiver, a cylinder having circularly arranged chambers and movably mounted in said receiver so as to be adapted to bring its chambers successively in line with said barrel, gas operated mechanism in said receiver for automatically loading, firing and ejecting and a plurality of magazines extending along the barrel and adapted to supply cartridges to the chambers of said structure, said magazines having one corresponding set of ends registering with a like number of the chambers in said cylinder and converging in a direction toward their opposite ends.

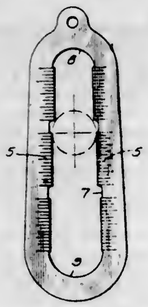
1,377,237. MOTOR-VEHICLE. MARY ANGELA WHELAN, Jersey City, N. J. Filed Nov. 23, 1918. Serial No. 263,867. 5 Claims. (Cl. 123—146.5.)



5. In combination with a commutator having a series of radial binding posts, a circular element of non-conduct-

ing material surrounding the commutator and stationarily mounted, said member having an annular recess therein, a second annular member applied to the first and movable with the commutator, a plurality of partition strips mounted on said second annular member defining a plurality of arcuate recesses, a plurality of contact members each comprising a strip of resilient material bent at two places with the ends directed toward each other and located in said compartments, an extension on the terminal of each contact member engaging the terminal of the commutator, and contact plates secured to the first annular member having outstruck portions against which the contact members bear radially for engagement with the first mentioned contact members in any angularly adjusted position of the commutator.

1,377,238. GAGE. BENJAMIN S. WILLIAMS, Nashville, Tenn. Filed June 21, 1920. Serial No. 390,553. 1 Claim. (Cl. 33—168.)



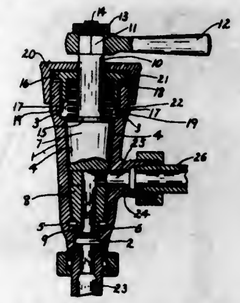
A gage comprising a body formed with an elongated opening, the longitudinal walls forming said opening diverging and being marked with groups of graduations along portions of each of the opposite faces, the unmarked portions of said walls receding and terminating in a regular curved surface, the most distant point in said curved surface being equi-distant from the first graduations on each of said wall faces, and an integral extension formed at one end of said body.

1,377,239. WEB-TURNING DEVICE FOR KNITTING-MACHINES. LOUIS N. D. WILLIAMS, Ogontz, Pa. Filed July 9, 1919. Serial No. 309,704. 11 Claims. (Cl. 66—32.)



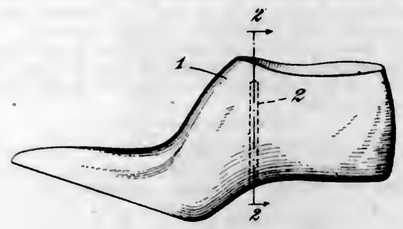
1. The combination of the needle cylinder of a knitting machine with a pusher within said cylinder, and means for actuating said pusher so as to cause it to engage the knitted web depending in said cylinder and push said web upwardly beyond the end of the cylinder.

1,377,240. VALVE. FRANK HARDY WILLIS, Toronto, Ontario, Canada, assignor of one-third to William Arthur Dowdell and one-third to Charles Herbert Jackson, Toronto, Ontario, Canada. Filed June 28, 1920. Serial No. 392,218. 2 Claims. (Cl. 251—95.)



1. In a valve, the combination with the casing having inlet and outlet orifices and a longitudinally disposed orifice within the casing, the upper portion of which is cylindrical and the lower portion of which constitutes a conical valve seat, of a conical valve plug rotatably engaging the conical valve seat, a journal pin extending axially from the lower end of the valve plug and journaled in the casing, an axial spindle extending upwardly from the upper end of the valve plug, a bonnet having a depending annular flange engaging the aforesaid upper cylindrical portion of the orifice in the casing, a compression spring surrounding the upwardly extending spindle of the valve plug, the ends of said spring engaging respectively the top of the conical valve plug and the under face of the bonnet, a screw cap engaging the upper end of the casing for forcing the bonnet downwardly and compressing the spring, the bonnet and cap each having a central orifice therein through which the upwardly extending spindle of the valve plug extends, said orifice forming a journal bearing for said spindle, the valve plug having a passageway therein adapted to register with the inlet and outlet orifices in the casing, and an operating handle carried by the upper end of the upwardly extending spindle for rotating the valve plug.

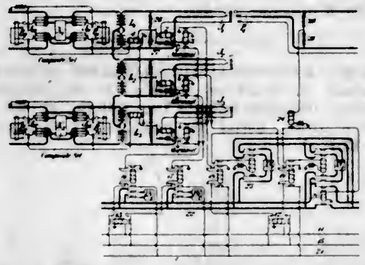
1,377,241. INDURATED POROUS MATERIAL AND PROCESS OF FORMING SAME. OTTO C. WINESTOCK, Perkinsville, Vt., assignor to Walter W. Slack, Springfield, Vt. Filed Aug. 16, 1919. Serial No. 318,051. 6 Claims. (Cl. 91—68.)



1. The process of indurating porous material which comprises providing the material with an unobstructed venting channel extending into the interior thereof, then treating the material in a bath of hot indurating liquid containing oxidizable material and permitting the egress of occluded fluid from the porosities of the material through the venting channel, permitting the material to partially cool in the indurating fluid, and then subjecting the material to oxidizing influences.

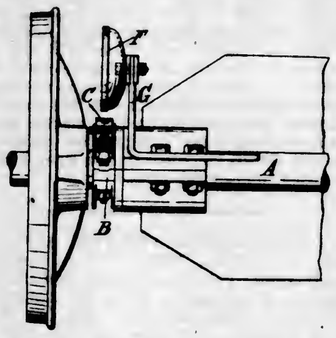
3. As an article of manufacture, a shoe last comprised of wood with the porosities thereof filled with a stable tenacious elastic material.

1,377,242. NETWORK-SELECTING CIRCUITS. CHARLES S. DEMAREST, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,640. 10 Claims. (Cl. 179—170.)



5. In a signaling system, transmission lines, auxiliary apparatus associated with said transmission lines, a repeater, networks for balancing said transmission lines and said auxiliary apparatus, means whereby when said repeater is associated with a transmission line a network is selected to balance said line, and another network is selected to balance said auxiliary apparatus, and means controllable over the talking conductors of said transmission line to defeat the selections of the latter network.

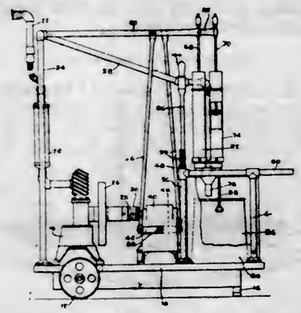
1,377,243. EXCESS-SPEED ALARM. HARRY SIDNEY DIX, East Melbourne, JOHN THOMAS PRYOR, Malvern, and CLIFFORD COFFEY, East Malvern, Victoria, Australia. Filed Dec. 24, 1917. Serial No. 208,712. 3 Claims. (Cl. 116—57.)



1. A speed alarm mechanism comprising a member rotatable at various speeds proportionally to the speed of a device, the speed of which it is desired to control, a signal spaced from said member and stationary with respect to said device, a striker mounted on said member capable of being projected a limited distance outwardly radially therefrom by centrifugal action to operate said signal, a pair of springs secured at one end to said striker, and at their other ends upon said member, means for adjusting the tension of said springs whereby said striker will operate said signal at correspondingly different speeds of rotation of said member, and said member comprising means for confining the movement of said striker to movement in a radial direction irrespective of any difference in tension which may exist in said springs.

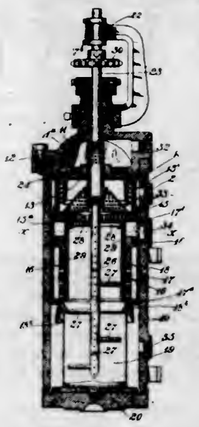
1,377,244. PORTABLE MILKING-MACHINE. ALFRED EKERN, Minneapolis, and RUDOLF A. TANNER, St. Paul, Minn. Filed Jan. 12, 1920. Serial No. 350,925. 4 Claims. (Cl. 31—98.)

1. A milking apparatus comprising a truck, a motor mounted on said truck, a shaft driven from said motor, a worm secured to said shaft, a worm gear with which said worm meshes, crank arms secured to the shaft of said worm gear, pitman rods connected to said crank arms, walking beams to which said pitman rods are connected, plunger rods connected to said walking beams, and a milking device mounted on said truck, said milking device including plungers operated by said plunger rods.



4. A milking device comprising a truck, a motor mounted on said truck, a frame mounted on said truck, walking beams pivotally supported by said frame, operating connections between said motor and said walking beams, a second frame mounted on said truck, cylinders supported upon said second frame, plungers in said cylinders, plunger rods connecting said plungers and said walking beams, and flexible tubes leading to said cylinders.

1,377,245. COOKING OR STERILIZING MACHINE. WILLIAM B. FENN, Columbus, Ohio, assignor to The Wedoit Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 21, 1913. Serial No. 762,555. 19 Claims. (Cl. 99—2.)



1. In sterilizing means, the combination with a receptacle for the material to be sterilized, of a perforated nozzle through which the sterilizing agent is applied to the material in the receptacle, said nozzle and receptacle being adapted to have relative vertical movement to bring the nozzle into or out of the receptacle, and means for rotating the nozzle during the sterilizing operation.

9. In sterilizing means, the combination with a receiver, of means in the receiver for holding a vessel containing the material to be sterilized, walls forming a chamber in the receiver above the vessel into which the material in the vessel can rise, the upper of said walls being perforated, a nozzle for applying the sterilizing agent to the

material, and means for removing material accumulating on said wall consisting of a rotated laterally extending tube having a jetting perforation inclined toward said wall and a scraping device to coöperate therewith.

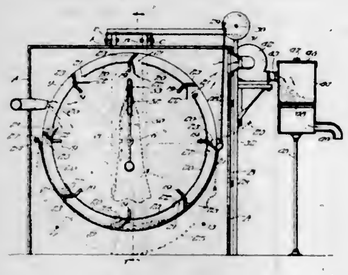
19. Apparatus for sterilising material in a vessel, comprising means for engaging the open end of the vessel, said means being chambered to permit the material to rise therein, means for supplying a fluid treating agent, and means for baffling the liquid from the fluid treating agent when the latter agent is released.

1,377,246. RAIL-BOND. JOSEPH A. FRAUENHEIM and HARRY ETHERIDGE, Zelienople, Pa., assignors to American Flexible Bolt Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 31, 1919. Serial No. 300,911. 15 Claims. (Cl. 173—262.)



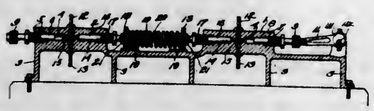
1. A rail bond having its maximum flexibility in a substantially horizontal direction at its central portion, and its maximum flexibility in a substantially vertical direction at its end portions when in bonding position, said flexibility changing gradually throughout the portions of the bond intermediate the central portion and the end portions, substantially as described.

1,377,247. MACHINE FOR CLEANING FURS. GUSTAVE A. HEINEKE and CARL HEINEKE, Chicago, Ill. Filed May 24, 1918. Serial No. 236,400. 9 Claims. (Cl. 15—8.)



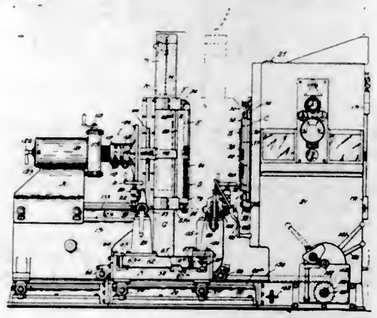
1. In a machine of the kind specified, the combination with a closed rotatable drum having a foraminous periphery, a receptacle for containing saw-dust in which the lower part of said drum moves, means carried by said drum for raising said saw-dust and discharging into the upper part of said drum and a valve arranged adjacent to said means which is closed during its movement in the receptacle.

1,377,248. PUMP FOR HYDRAULIC PRESSES. NELSON B. HENAY, Atlanta, Ga., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Aug. 23, 1920. Serial No. 405,461. 3 Claims. (Cl. 103—87.)



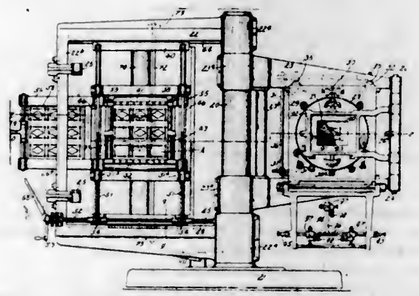
1. In a hydraulic pump, the combination of two pairs of cylinders, each cylinder of a pair communicating at its inner end with its mate and with an inlet and outlet valve and ducts between the cylinders; a piston in each cylinder, one piston of each pair being coupled to a piston of the other pair and positively actuated in opposite cycles; the other pistons of each pair being engaged in common by a single compression spring tending to force each piston into its cylinder.

1,377,249. PHOTOGRAPHIC-PRINTING APPARATUS. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner Bleistein Patents Co., Buffalo, N. Y. Filed Aug. 6, 1918. Serial No. 248,623. 57 Claims. (Cl. 95—73.)



55. In a photographic printing apparatus, the combination of supports for sensitized plate and for a printing plate, one of said supports being adjustable relatively to the other substantially parallel with the plane of the sensitized plate for placing the printing plate opposite different portions of the sensitized plate, and one of said supports being movable for placing said plates into and out of contact, means for causing an intimate contact of said plates including a pressure member, means for adjusting said member substantially parallel with the plane of the sensitized plate and relatively to the printing plate for locating the printing plate and pressure member with their centers in different relations to each other, and means for illuminating the printing plate.

1,377,250. PHOTOGRAPHIC-PRINTING APPARATUS. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Continuation of application Serial No. 262,076, filed Nov. 11, 1918. This application filed Oct. 1, 1920. Serial No. 414,106. 17 Claims. (Cl. 95—73.)



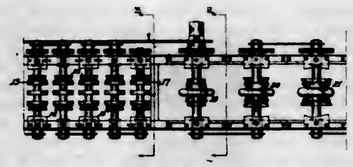
2. In a photographic printing apparatus, the combination of a holder carrying a printing plate, two oppositely swinging holders arranged to interchangeably position members carried thereby opposite the printing plate, means for causing a relative movement of said holders toward and from each other to place the printing plate into and out of contact with the opposed member, and pressure means for causing an intimate contact of the printing plate and opposed member.

1,377,251. METHOD OF PRODUCING EAVES-TROUGHS. MARTIN L. HUNKER, Wheeling, W. Va., assignor to Whitaker-Glessner Company, a Corporation of West Virginia. Filed June 21, 1920. Serial No. 390,401. 12 Claims. (Cl. 153—54.)



1. The method of forming eaves troughs, which includes bending the stock into trough shape by a succession of curving operations in which it is progressively developed from its center outward in opposite directions in areas of relatively increasing width and in which areas lateral to that acted upon are unconfined.

1,377,252. EAVES-TROUGH-FORMING MACHINE. MARTIN L. HUNKER, Wheeling, W. Va., assignor to Whitaker-Glessner Company, a Corporation of West Virginia. Filed June 21, 1920. Serial No. 390,402. 10 Claims. (Cl. 153—54.)



4. In an eaves trough forming machine, a series of sets of coöperating rollers for gradually drawing the body of a blank into trough shape, an initially acting set of said rollers having the upper roller thereof shaped to act upon a relatively small area of the blank midway between the edges of the latter, and succeeding sets of the rollers having the upper rollers thereof shaped to act upon the blank in areas of progressively increasing width.

1,377,253. FASTENING DEVICE. MATTHEW J. KEEVERS, Northampton, Mass. Filed Apr. 26, 1919. Serial No. 292,955. 1 Claim. (Cl. 2—187.)



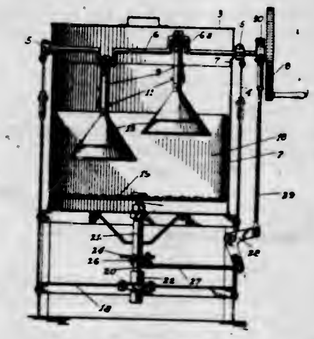
A device for detachably supporting ornaments having a cross-bar from pumps or the like comprising, a member having a part for attachment to the pump and a generally upstanding body portion for connection to the ornament, a finger connected to the body portion near one edge thereof and extending transversely of such portion with its free end formed to permit entrance of the cross bar of the ornament between the finger and said body portion, and pairs of shoulders provided on the latter above and below said finger between which said cross bar is received and held from twisting relatively to the body portion.

1,377,254. BUCKLE-HOLDER. MATTHEW J. KEEVERS, Northampton, Mass. Filed Feb. 20, 1920. Serial No. 360,108. 5 Claims. (Cl. 2—187.)



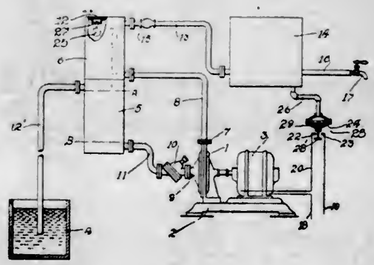
1. A buckle holder, comprising, a tongue provided with means to attach it to a slipper or the like in generally upstanding relation, and a finger carried by the upper edge of said tongue and bent downwardly and forwardly into closely adjacent and substantially parallel relation with said tongue for engaging a portion of the buckle and holding the same against the tongue.

1,377,255. WASHING-MACHINE. MICHAEL KRYCKI, Sacramento, Calif. Filed June 15, 1920. Serial No. 389,183. 3 Claims. (Cl. 68—19.)



1. A washing machine comprising a vertically positioned tank, an inner tank therein arranged to rotate, cups projecting into the inner tank and arranged for opposed vertical movement and means whereby the inner tank may have a limited amount of automatic vertical play without interrupting the rotation thereof.

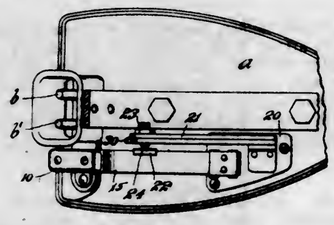
1,377,256. PUMPING SYSTEM. HARRY E. LA BOUR, Chicago, Ill., assignor to Chemical Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 12, 1920. Serial No. 350,821. 12 Claims. (Cl. 103—43.)



1. In combination, a valveless pump, a trap, and a connection therefrom to the intake of the pump, discharge means having a relatively large capacity and a

connection therethrough from the discharge of the pump, an air vent in said discharge system, a suction pipe connected to said trap above the level of the pump connection and a check valve in said suction pipe.

1,377,257. THERMAL CIRCUIT-BREAKER. JOSEPH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed July 20, 1917. Serial No. 181,839. 9 Claims. (Cl. 200—139.)



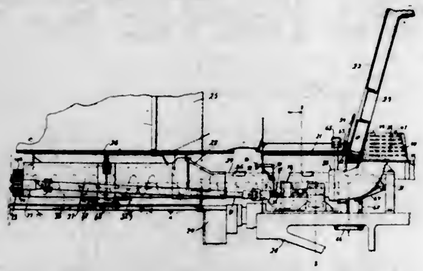
1. A circuit breaker for an electrically heated utensil comprising a spring actuated circuit closer provided with a part having an inclined surface, and a thermostatic bar provided with an adjustable screw having a tapering end engaging the inclined surface of said part.

1,377,258. COOKING UTENSIL. FRANK C. LAMB, New York, N. Y. Filed Mar. 24, 1920. Serial No. 368,336. 6 Claims. (Cl. 53—7.)



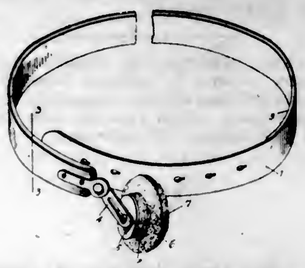
3. A cooking utensil comprising a plain, dished bottom center portion surrounded by a retaining groove, a rib formed between said dished bottom portion and one edge of said groove, the other groove edge forming an outer wall having a spout, said dished bottom portion and the bottom of said groove being disposed in one plane, and means attached to said wall for holding and tilting the utensil.

1,377,259. LOCOMOTIVE-STOKER. NATHAN MAPPLE LOWER, Schenectady, N. Y., assignor to Locomotive Stoker Company, Schenectady, N. Y., a Corporation of Pennsylvania. Filed Apr. 13, 1915. Serial No. 21,009. 8 Claims. (Cl. 110—101.)



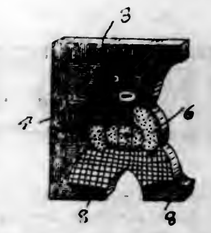
6. In a locomotive stoker, in combination, a locomotive having a fire-box, a conduit for delivering fuel upwardly through the bottom of the fire-box, a tender having a fuel bin, a conveyer located below the bin and forcibly feeding fuel to and through the conduit, and a cone and shell fuel crusher forming a section of the conveyer conduit.

1,377,260. TRUSS-PAD. JASPER N. MCCAY, Watts, Calif. Filed Sept. 17, 1920. Serial No. 410,874. 2 Claims. (Cl. 128—105.)



1. A truss comprising a belt, a lining of sponge rubber on the belt, an arm secured to one end of the belt, and a pad secured to and adjustable along said arm, the pad comprising an integral head and shank of sponge rubber, the shank being of less diameter than the head and the head being inclined relative to the shank.

1,377,261. EDUCATIONAL BLOCK. CHARLES A. MCLAIN and ESTHER M. BOTHNE, Minneapolis, Minn. Filed Nov. 3, 1920. Serial No. 421,611. 1 Claim. (Cl. 35—1.)



An educational block formed and marked to represent an object and an alphabetical character, the represented object having feet with flat bottoms that are adapted to support the block in an upright position, and said alphabetical character forming a material part of the marginal outline of the block.

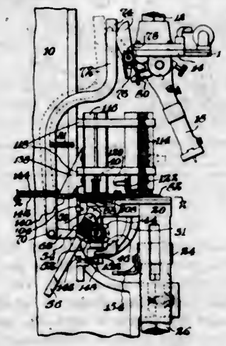
1,377,262. NAIL-STRING. FRED L. MACKENZIE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 20, 1918. Serial No. 254,919. 10 Claims. (Cl. 85—18.)



1. A nail string comprising a series of nails arranged with the points of the nails connected to the heads of the

succeeding nails in which the heads of certain of the nails of the string project in a direction opposite to that in which the heads of certain other of the nails project.

1,377,263. HEELING-MACHINE. BENJAMIN F. MAYO, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 5, 1918. Serial No. 248,334. 61 Claims. (Cl. 1—32.)



1. In a machine of the class described, a movable work-support, a device movable to bring different work portions into coöperation with each piece of work on the support, movable means for operating upon the work, and means arranged to operate incidentally to different acts performed upon the work for controlling the movements of the device.

31. In a heeling machine, work-engaging means, heel and top lift containers situated at the same side of said engaging means, and means for conveying the contents of the containers to the engaging means.

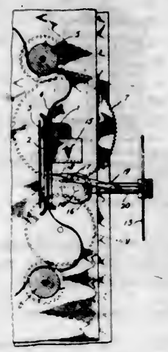
61. In a heeling machine, a loader arm having a nail gate latched in its retaining position, and a swing plate provided with a projection for moving the loader arm and releasing the gate.

1,377,264. PROTECTIVE AND ALARM SYSTEM. JOSEPH MENCHEN, New York, N. Y. Filed June 26, 1920. Serial No. 392,058. 52 Claims. (Cl. 116—75.)



1. A theft or burglary preventive barrier containing explosive and combustible materials adapted and arranged to be ignited by forcible tampering and to produce continuing detonations and incapacitating gases.

1,377,265. MOTION-PICTURE CAMERA. FRANK MLADINICH, New York, N. Y. Filed Nov. 24, 1920. Serial No. 426,225. 3 Claims. (Cl. 88—18.4.)



1. In a motion picture camera, the combination of a film guide, a perforated strip of film therein, a crank, a finger mounted on said crank, an arm extending from said finger, and a guide having a guiding surface engaging the end of said arm, said arm constituting a lever whose lever arm is of constant length.

2. In a motion picture camera, the combination of a film guide, a perforated strip of film therein, a crank, a finger mounted on said crank, an arm extending from said finger, and a guide having a guiding surface engaged by the end of said arm, said guiding surface being rectilineal, said arm constituting a lever whose lever arm is of constant length.

3. In a motion picture camera, the combination of a film guide having a rectilineal guiding surface perpendicular to one plane and at right angles to another plane normal to said first plane, a perforated strip of film therein, a crank, a finger mounted on said crank, a second guide having its guiding surface parallel to one of said planes, and an arm extending from said finger and having its end engaging said guiding surface so that said arm constitutes a lever whose lever arm is of constant length.

1,377,266. PROCESS FOR MANUFACTURING METAL RINGS. FRANK MOSSBERG, Attleboro, Mass. Filed Aug. 5, 1918. Serial No. 248,256. 6 Claims. (Cl. 29—156.)

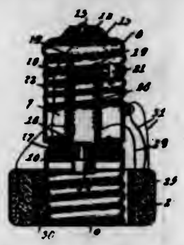


1. Process for making metal bands, comprising the production of a split ring from bar stock, welding the abutting ends, confining the blank between dies having opposed faces disposed to engage the blank throughout its circumference, applying pressure simultaneously throughout the circumference to an extent to cause the flow of metal at the joint to a homogeneous structure with the remainder of the ring and causing flow of the metal simultaneously throughout the ring radially to form an annular disk of uniform molecular structure and up-ending the disk to form a cylindrical ring.

1,377,267. AUTOMATIC SHUNT. WILL C. NEAHR, Denver, Colo, assignor to The Protective Signal Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Aug. 14, 1917. Serial No. 186,215. 16 Claims. (Cl. 200—118.)

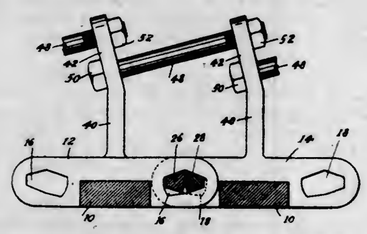
15. The combination with an incandescent lamp, of a plug therefor for detachable engagement with the sockets arranged in series, said plug having master and compen-

sating resistance coils associated therewith, thermostatic elements mounted within the plug and in circuit with the



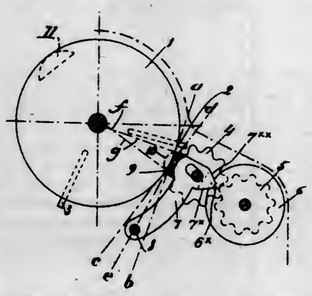
coils and means controlled by the thermostatic elements for shunting the current through the compensating coil when the lamp filament is ruptured.

1,377,268. LINK BELT. DE WITT NELSON, Minneapolis, Minn., assignor to The Horton Manufacturing Company, Minneapolis, Minn., a Corporation. Filed Jan. 27, 1919. Serial No. 273,269. 1 Claim. (Cl. 74—32.)



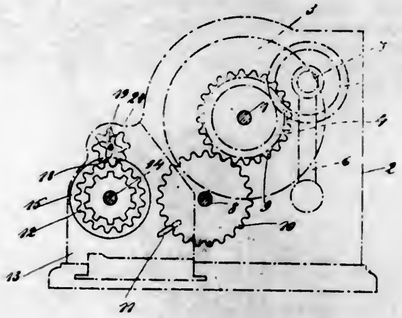
A belt comprising a plurality of links, pairs of cooperating pins both of which have their adjacent sides beveled, each of said links being connected to the adjacent link by a pair of said pins which rock upon said beveled sides when said belt is deflected either out of or into straight line position, and heads on the ends of said pins for holding them in position.

1,377,269. TRANSFER MECHANISM OF CALCULATING-MACHINES. VALENTIN JAKOB ODHNER, Stockholm, Sweden. Filed May 15, 1919. Serial No. 297,434. 2 Claims. (Cl. 235—138.)



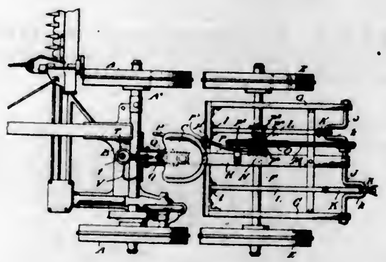
1. In a calculating machine the combination with calculating wheels, "ten" -pins, "hundred" -pins, etc., provided on the said wheels and deflectable laterally, of swingable "ten" -transmitting arms, adapted to force the said pins into operative position, the fulcrum of the said "ten" -transmitting arms being located inside the angle, formed by the tangents to the periphery of the calculating wheel at the points, at which the "ten" -pins, etc., strike the said arm.

1,377,270. CALCULATING-MACHINE. VALENTIN JAKOB ODHNER, Gottenborg, Sweden. Filed July 9, 1919. Serial No. 309,788. 1 Claim. (Cl. 235—79.)



In calculating machines, the combination with calculating wheels, of rotatable indicating disks provided with gears, means transmitting motion from the calculating wheels to the said indicating disks, a shaft carrying loosely mounted gears which mesh with the gears of said disks, a toothed wheel fixed to each of the shaft gears, and a projection on each of said disks designed to engage and operate one of said toothed wheels, said toothed wheels and projections being so constructed and arranged relatively to each other that a projection may operate a toothed wheel when the disk carrying the projection is rotated in either direction, but that the last named toothed wheel, in rotation, cannot disturb the last named projection when the disk carrying the latter projection is in zero position and the projection is arranged at one side of a line drawn through the axis of a shaft and the axis of the last named disk.

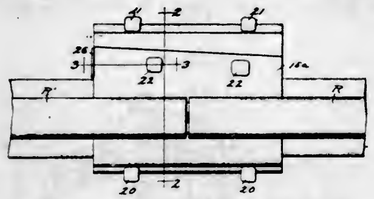
1,377,271. HAY-TEDDER. CARL B. OKLITZ, Elkhart, Ind. Filed July 21, 1920. Serial No. 397,936. 4 Claims. (Cl. 56—371.)



1. A combined mower and tedder comprising a tedding machine having forks and means for actuating them, a pole extending forwardly from the tedder, a seat standard on the mowing machine adapted to connect with the pole of the tedder, a cross-piece carried by the tedder pole and a key supported by the seat standard and extending across said cross-piece.

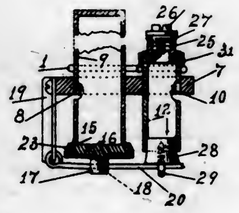
1,377,272. RAIL-JOINT. JERRY COATTS PEPPERS, New Orleans, La. Filed Oct. 9, 1920. Serial No. 415,758. 1 Claim. (Cl. 238—198.)

A rail joint of the character described comprising a base plate having a depressed portion and a slot at the inner end of said depressed portion, angle plates, one of said angle plates being removable and a malleable keeper having one end extending through the slot of said base plate and seated in the countersink formed by the depressed



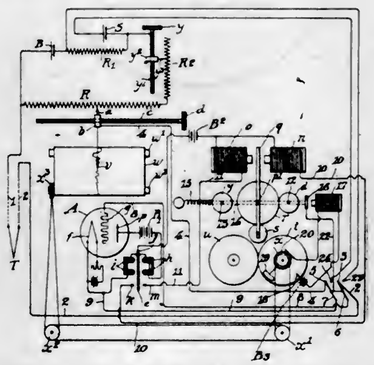
portion and having its other end extending upwardly to abut said removable angle plate and secure the same in position after it has been assembled with the base plate.

1,377,273. CHINCH-BUG KILLER. JOHN A. PEERINGS, Springfield, Ill. Filed June 19, 1919. Serial No. 305,294. 4 Claims. (Cl. 43—125.)



1. In an appliance of the class described, the combination of a container; a removable closure closing the container; a generator adjacent to the container; a propulsive stopper closing one end of the generator; and a connecting device operatively connecting the propulsive stopper of the generator with the removable closure of the container.

1,377,274. CONTROL APPARATUS. HARRY F. PORTER, Trenton, N. J., assignor to Pyrolectric Instrument Co., Trenton, N. J., a Corporation of New Jersey. Filed June 3, 1919. Serial No. 301,593. 36 Claims. (Cl. 171—312.)

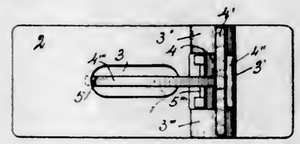


1. The combination with an electrical source, of a thermionic device electrically controlled thereby, electrical means for producing a variable effect in opposition to the effect on said thermionic device produced by said source, and means controlled by said thermionic device for varying said electrical means.

1,377,275. COMPOSITION FOR STOPPING RADIATOR LEAKS. MARK G. RAY, Richmond, Va. Filed Sept. 21, 1920. Serial No. 411,786. 1 Claim. (Cl. 134—17.5.)

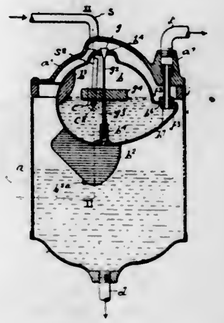
A composition for repairing leaks in radiators and the like comprising a mixture of aluminum, graphite, flax seed meal, washing soda, and lye.

1,377,276. LIFT-LATCH FOR HAND-BAGS. BRODIE J. RICHARDSON and CLAIRE S. BARBER, Waterbury, Conn. Filed Sept. 27, 1919. Serial No. 326,960. 3 Claims. (Cl. 292—202.)



1. A lift-latch comprising a base-plate having a pintle-exposing opening formed therein, and having bearing-sockets rising therefrom; a hinge-pintle transversely underlying said base-plate; a resilient bolt-controller also underlying said base-plate, affording segmental bearings for said hinge-pintle and exerting thereon a yielding controlling tension; and a bolt-carrying finger-plate, the latter fitted with an extension operating within the pin-exposing opening aforenamed, and firmly engaging the hinge-pintle thereat, for action as a unit therewith, and further provided with opposite shoulders overlying the bearing-sockets aforenamed, whereby the operative parts of the latch are interlocked against casual displacement.

1,377,277. VACUUM FEED APPARATUS. FRANK V. RISINGER, Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Mar. 1, 1920. Serial No. 362,596. 4 Claims. (Cl. 158—36.)



1. In a device for the purpose indicated, in combination, a receptacle for liquid fuel having an atmosphere inlet, a liquid outflow connection for supplying a carbureter, and liquid inflow connection from a lower source of liquid fuel supply; a vacuum chamber mounted pivotally within said receptacle having connection with a source of suction exterior to said receptacle, and having a liquid inlet port positioned for registering with the liquid inlet connection of the receptacle at one position to which it may be turned about its pivot; said vacuum chamber being formed and pivoted so that when empty of liquid it is normally overbalanced in the direction for holding said liquid inlet port in registration with said liquid inlet connection, and valve means at the liquid inlet registering position of the vacuum chamber for closing the communication of the

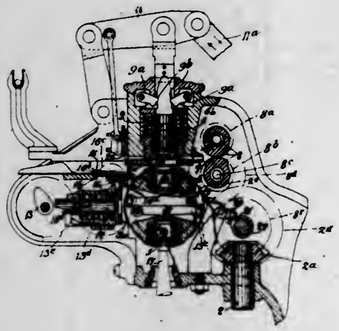
liquid inlet port of said chamber with the receptacle, whereby at said empty position of the vacuum chamber liquid is sucked thereinto from the main low level fuel supply source.

1,377,278. DRAG-LINE EXCAVATOR. ARTHUR S. ROBINSON, Dayton, Ohio. Filed June 29, 1918. Serial No. 242,656. 12 Claims. (Cl. 37—55.)



1. In a drag-line excavator the combination of a supporting structure, an auxiliary or supplementary boom, and a main boom, said auxiliary or supplemental boom being extended to a point intermediate the terminal planes of the main boom, a scoop bucket and control cables therefor comprising a bucket line and a drag line separately controlled by said booms.

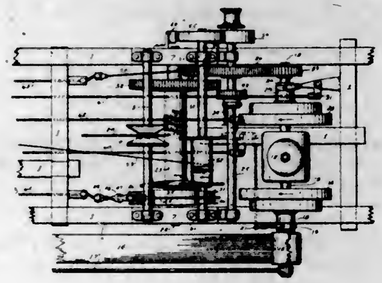
1,377,279. MACHINE FOR MAKING CAPS AND FOR APPLYING THE SAME TO BOTTLES. ANDERS ANDERSSON ROSENGREN, Malmo, Sweden. Filed June 30, 1920. Serial No. 393,039. 15 Claims. (Cl. 226—84.)



1. In a machine for making caps and applying the same to vessels, a female die member, means for cutting out a cap blank and for forcing said blank into the die member to form a capsule, means for forcing the cap from the die member and for applying the same to a vessel, means for moving the die member from the position where it receives the blank to the position where it discharges the same, and means located adjacent to the path of movement of said die member for forming a sealing disk and for applying the same to the previously formed blank.

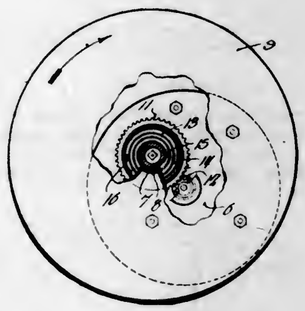
1,377,280. DRILLING-MACHINE. RAY R. SANDERSON, Orrville, Ohio. Filed July 11, 1917. Serial No. 179,972. 1 Claim. (Cl. 255—11.)

In a drilling machine, a motor, a power shaft operated directly thereby, a fly wheel carried by said shaft on each side of the motor, a clutch mechanism adjacent each fly wheel and beyond the same relative to the motor, a frame work for supporting the machine and having the bars thereof arranged beyond the fly wheels, the shaft being extended in one direction beyond the frame work, a belt pulley mounted on the extended portion of the shaft and



controlled by the adjacent clutch, a spudding mechanism comprising positively connected parts operated by said belt pulley, and hoisting mechanism operated by and entirely controlled through such other clutch.

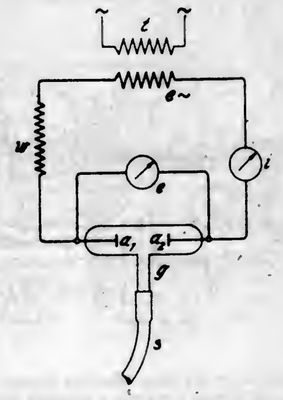
1,377,281. TRAVEL-RECORDER FOR VEHICLES. HANS SATTLER, Sheboygan, Wis. Filed May 26, 1919. Serial No. 299,844. 5 Claims. (Cl. 234—1.)



2. In a device of the class described, the combination of a clock mechanism including a drive gear, a rotatable record carrying member, a gear annulus on said record carrying member having its teeth in mesh with the teeth of the drive gear, a ring on the record carrying member concentric with its axis of rotation, a rotatable housing, a spring within said housing urging it to rotate, and a drive connection between the ring and the housing.

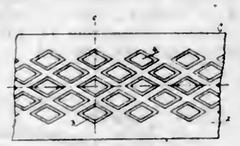
1,377,282. APPARATUS FOR MEASURING THE VACUUM IN LARGE RECTIFIERS. BÉLA BENÖ SCHÄFER, Baden, Switzerland, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Filed July 14, 1920. Serial No. 396,300. 3 Claims. (Cl. 175—183.)

1. The method of measuring vacuum, which consists in testing the electrical conductivity of the vacuum to be measured by passing an electric current therethrough and producing an observable light phenomena indicative of



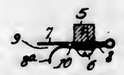
the degree of rarefaction and measuring the voltage of the current by means of an electrical measuring instrument.

1,377,283. TIRE-TREAD. FRANK G. SCHENUIT, Baltimore, Md. Filed Nov. 4, 1920. Serial No. 421,628. 3 Claims. (Cl. 152—14.)



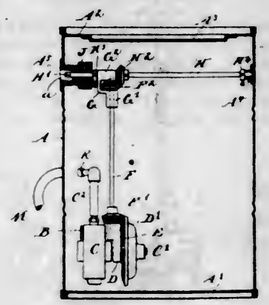
3. A tire tread comprising a resilient surface in combination with a plurality of independent outstanding diamond shaped vacuum elements secured to and projecting from said surface, said elements being provided with vacuum depressions within said diamonds, said surface being provided with said diamond elements at various parts thereof in different longitudinal planes of operation.

1,377,284. COMBINED THREAD HOLDER AND CUTTER. THEODORE T. SEAL, Wheeling, W. Va., assignor of one-half to W. O. Houston, Bellaire, Ohio. Filed Feb. 14, 1920. Serial No. 358,701. 5 Claims. (Cl. 30—14.)



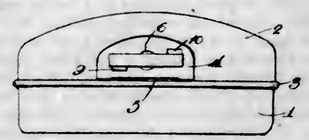
1. A thread-holding clamp for sewing machines, comprising, in combination with a support, a thin strip of resilient material doubled upon itself to form a pair of elongated members relatively disposed to provide an intermediate thread-receiving space, said members having registering holes therein intermediate their ends, and an attaching screw directed through said holes into the face of said support, the innermost of said members being held seated in fixed relation to said support, and the outermost of said members being yieldable and adapted through adjustment of said screw to move relative to said innermost member for varying the capacity of said thread-receiving space.

1,377,285. GREASE-DRUM. HARRY A. SEARLE, Council Bluffs, Iowa. Filed Sept. 18, 1919. Serial No. 324,672. 2 Claims. (Cl. 103—62.)



1. The improved grease drum herein described, comprising a receptacle, a pump therein, a transverse pump supporting bar within said receptacle, the shaft of said pump being extended, a casting embodying a sleeve receiving and supported by said shaft extension, said casting having an upright extension with a bore, a drive shaft stepped in said bore, intermeshing pinions on the drive shaft and pump shaft extension, an angular casting one member of which is formed with a branch extended across and which receives the upper end of the drive shaft, an operating shaft transversely supported within the receptacle near its upper end and received in the other member of said angular casting, and intermeshing pinions on the operating shaft and the upper end of the drive shaft.

1,377,286. CAN-OPENER. PETER B. SEARCY, Smithville, Tex. Filed Sept. 16, 1920. Serial No. 410,584. 2 Claims. (Cl. 220—43.)



1. In combination with a receptacle having an annular lip at its upper edge and a cover adapted to engage the lip, an extension formed on the cover provided with an opening and a longitudinal slot in longitudinal alinement with the edge of the cover, an opener comprising means to be mounted in the said opening and including a pair of oppositely disposed cams to be lodged between the said extension and the cover, the said means including finger lugs to be engaged by the fingers of the user for imparting a rotary movement to the opener whereby one of the cam members may engage the lip through the said slot to force the cover upwardly from the lip.

1,377,287. LOCKING DEVICE FOR TEMPER-SCREW SWIVELS. IRL A. SHANK, Florence, Colo. Filed July 2, 1919. Serial No. 308,277. 1 Claim. (Cl. 287—61.)

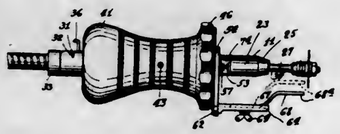
The combination with a temper screw frame, a temper screw mounted therein, a swivel carried by the lower end of the temper screw and having lateral wings carrying cable supporting links, and an elevator head carried by the upper end of the temper screw and extending transversely through the temper screw frame, of a shank disposed parallel with and close to the temper screw frame and clamped at its upper end to the elevator head, a lateral yoke at the lower end of the shank having the extremity of its lower branch bearing against a wing of the swivel

and disposed within the link carried by said wing, and a clamping bar mounted on said lower branch of the yoke



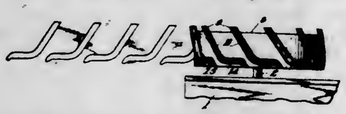
and bearing against the opposite side of the swivel wing engaged by said branch and within the link carried by said wing to clamp the swivel and prevent turning of the same.

1,377,288. ROTARY CUTTING AND DRILLING INSTRUMENT. ANGELO L. SORESI, New York, N. Y. Filed Sept. 12, 1919. Serial No. 323,304. 9 Claims. (Cl. 128—317.)



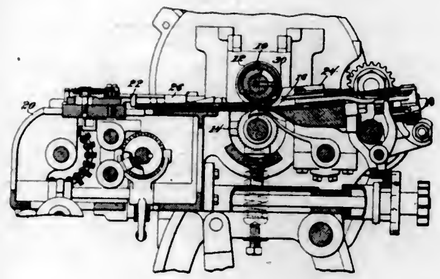
1. A cutting or drilling instrument, comprising a tool, and a handle supporting said tool, said handle being relatively short and of great diameter and heavy mass, said handle having reduced intermediate portion for engagement with a hand by which the handle and tool are supported, said handle also having a weighting portion forwardly of the reduced portion, said weighting portion being situated remotely and rearwardly of the tool, said handle further provided with a counter-weighting portion to the rear of the reduced intermediate portion, said counter-weighting portion being of increased mass as comparative with the weighting mass portion whereby the former will balance the weighting portion and the tool.

1,377,289. TRACTION-WHEEL. EDGAR J. SOLOMON, Peoria, Ill., assignor to Avery Company, Peoria, Ill., a Corporation of Illinois. Filed Nov. 10, 1917. Serial No. 201,800. 2 Claims. (Cl. 301—44.)



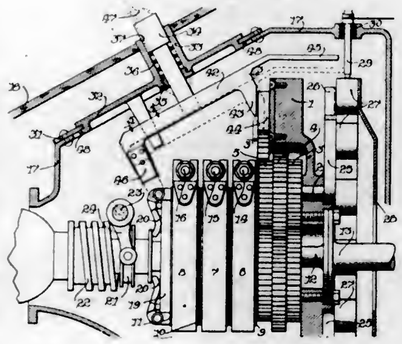
2. A traction wheel having, in combination, a single transversely continuous rim, and a series of cleats thereon, each cleat having a section adapted to lie with its longitudinal lines in planes of rotation near the inner edge of the rim, and a second section integral with the first and positioned with its longitudinal lines in planes inclined to the aforesaid planes, the cleats being out of contact with each other and arranged to form soil receiving compartments at the rim surface, each compartment having inclined sides and being entirely open laterally at the outer edge of the rim and partially closed by adjacent cleats at points near the inner edge of the rim.

1,377,290. MARKING DEVICE. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 21, 1918. Serial No. 255,154. 7 Claims. (Cl. 12—17.)



1. A machine of the class described having, in combination, a die roll having a matrix, a pressure roll for forcing a blank into the matrix, a skiving knife mounted to cooperate with said rolls to skive the blank, and a marking device so located relatively to the matrix as to effect an impression in the blank at one end of the skiving on the blank.

1,377,291. LOCKING MEANS FOR AUTOMOBILES. HARRY P. TAYLOR, Los Angeles, Calif., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed May 11, 1918. Serial No. 234,034. 23 Claims. (Cl. 180—1.)

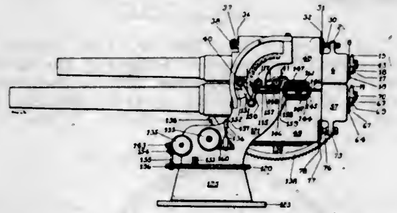


1. In combination, a housing, a driving mechanism therein, a cover for said housing, a plunger mounted in said cover, locking means carried by said plunger, said locking means being adapted to be projected to lock a rotating part of said driving mechanism against rotation, an alarm mechanism adapted to be set by the projection of said locking means, means for automatically locking said locking means in the projected position and key operated means for rendering said locking means inoperative.

1,377,292. ANTI AIRCRAFT AND SUBMARINE HOWITZER. HOWARD WEISNER THOMAS, Troy, N. Y. Filed Sept. 16, 1920. Serial No. 410,807. 6 Claims. (Cl. 89—37.)

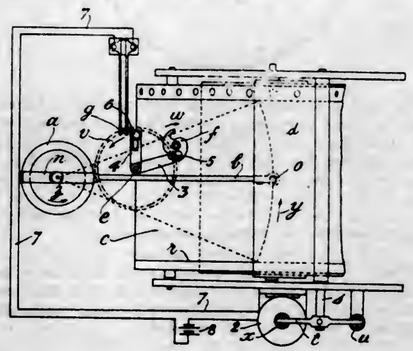
1. The combination, in a gun mount, of a pedestal, a yoke pivoted thereon, a cradle suspended between the yoke

arms, mutual range diverse caliber superimposed gun barrels mounted in said cradle, and semi-automatically gov-



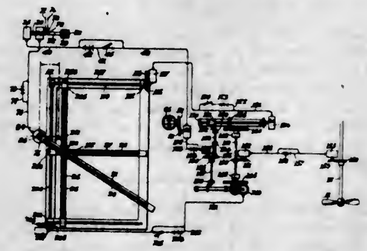
erned electric curcuits for joint firing of both guns, all substantially as described.

1,377,293. SPEED INDICATING AND RECORDING INSTRUMENT. HUBERT JASPER SCARD THOMAS, Haverton Hill, England. Filed Mar. 25, 1920. Serial No. 368,630. 1 Claim. (Cl. 234—5.5.)



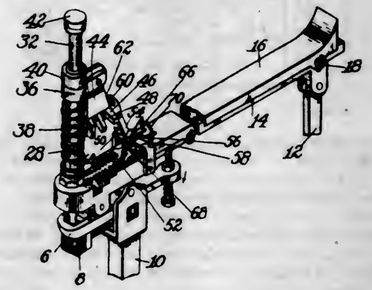
In an instrument for indicating and recording the speed of rotation of a revolving body, the combination with a moving scale, a marker arm, and means whereby the rotation of the said revolving body swings the said marker arm periodically over the said moving scale, of mechanism for periodically returning the said marker arm to its initial position, means, independent of the said revolving body, for actuating the said mechanism, means, independent of the said revolving body and of the said means, for periodically holding the said mechanism stationary, and means for pressing the said marker arm against the said chart to make a mark thereon.

1,377,294. AUTOMATIC DIRECTING SYSTEM FOR GUIDE-LIGHTS. ALBERT D. TRENOR, New York, N. Y., assignor to John Haya Hammond, Jr., Gloucester, Mass. Filed Nov. 13, 1917. Serial No. 201,886. Renewed Sept. 28, 1920. Serial No. 413,438. 18 Claims. (Cl. 240—1.)



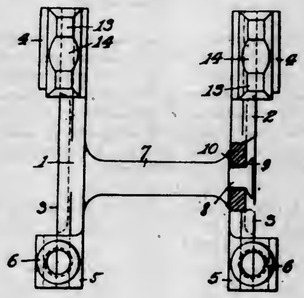
2. The combination with a movable body, of a position revealing light carried by said body and movable with respect thereto, and means automatically operative to cause said light to be directed continuously toward a given fixed point while said body is moving upon an irregular course in a given plane.

1,377,295. FASTENING MECHANISM. JESSE S. WENTWORTH, Norwood, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Mar. 27, 1914, Serial No. 827,596. Divided and this application filed Oct. 11, 1918. Serial No. 257,728. 24 Claims. (Cl. 1—20.)



7. In mechanism of the class described, the combination with means for feeding a blank staple strip from which staples are to be formed, of means for severing a formed staple from the end of the strip and driving it, and connected means for forming staples from the strip constructed and arranged to operate upon each staple a plurality of times in succession coincidently with a plurality of staple driving operations to bend the leg portions of the staple progressively into their final shape.

1,377,296. SUPPORTING-CHAIR FOR DRILL-BOXINGS. JOHN H. WENZLICK, Wheeling, W. Va. Filed May 21, 1920. Serial No. 383,312. 4 Claims. (Cl. 255—46.)

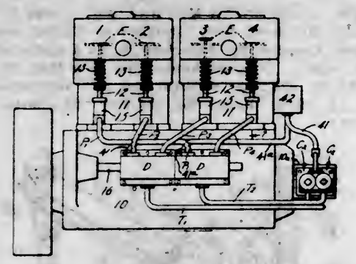


1. A supporting chair for miners' drills, comprising body members adapted for adjustment upon the bars of a supporting post, means whereby said members are held in spaced relation and are allowed a limited range of independent free movement, said means comprising a transverse connecting element having fixed relation at one end with one of said members and having its opposite end headed and forming a flexible joint with the other member.

1,377,297. VALVE-OPERATING SYSTEM FOR COMBUSTION-ENGINES. OSCAR WERNER, Los Angeles, Calif. Filed Mar. 19, 1918. Serial No. 223,423. 4 Claims. (Cl. 123—90.)

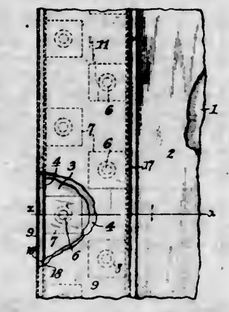
1. Valve actuating mechanism for a multiple valved engine, embodying a single cylinder and plunger mechanism actuated by the engine in timed relation thereto and adapted to periodically raise a pressure on a non-compres

sible fluid in accurately timed relation to the operation periods of the engine, plungers connected with the several valves of the engine and adapted to be moved by the fluid pressure thus raised; and a distributing valve between the



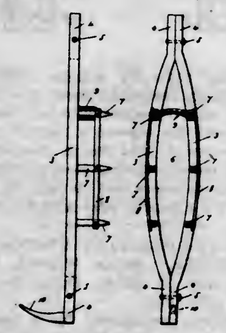
pressure raising mechanism and the valve plungers adapted to distribute to the several valve plungers the accurately timed successive pressure impulses raised by the periodic action of the pressure raising mechanism.

1,377,298. FIREPROOF DOOR. WILLIAM H. WHEELER, New York, N. Y. Filed June 8, 1920. Serial No. 387,405. 8 Claims. (Cl. 20—35.)



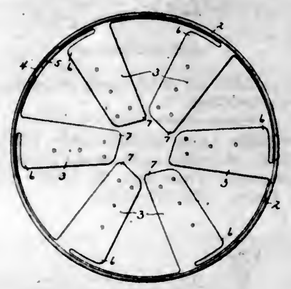
1. A fireproof door of the class described, comprising an edge-frame constituted by bars or stiles formed of a rigid non-metallic composition, a relatively-thin metallic plate forming a surface sheathing for said edge-frame, and a relatively-thick metallic strip extending at the outer edge of said frame and positionally retained by said surface sheathing plate, said strip having a substantially floating or loose status relative to the frame.

1,377,299. ANIMAL-POKE. FRANK WHIGHAM, Kinston, Ala. Filed Sept. 18, 1920. Serial No. 411,151. 2 Claims. (Cl. 119—138.)



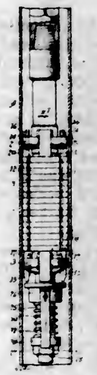
1. An animal poke, comprising two curved frame bars having their end portions secured together, said bars having a neck space between them, spikes projecting rearwardly from the said bars, and a neck piece of flexible material secured to two of the spikes and extending across the neck space.

1,377,300. MANUFACTURE OF FANS. PHILIP H. WITHINGTON, Cleveland, Ohio, assignor to The Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 8, 1917, Serial No. 190,353. Renewed Feb. 17, 1921. Serial No. 445,867. 1 Claim. (Cl. 29—148.)



The method of manufacturing fans comprising forming a flat fan blank comprising a rim and blades integral with and extending laterally from one side of the rim and separated from the rim for a portion of their width by slots, bending the rim in circular form, deflecting the portions of the blades separated from the rim by slots so that they are out of alinement with the rim and securing a central web to the radiating blades.

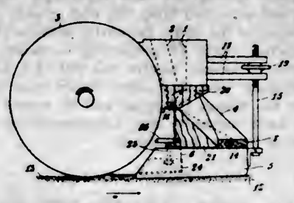
1,377,301. CASING-SPEAR. WILLIAM E. YOULE, Los Angeles, Calif., assignor of one-half to J. F. Holbrook, Los Angeles, Calif. Filed Sept. 27, 1919. Serial No. 326,952. 24 Claims. (Cl. 294—96.)



1. A casing spear having a solid imperforate shank provided with a plurality of longitudinally disposed series of inclined cam surfaces, and a plurality of one piece toothed slips freely slidable on the shank, each slip having a series of inclined cam surfaces engaging one of the series of cam surfaces of the shank and each of the cam surfaces of the shank and of the slips being devoid of projections or recesses.

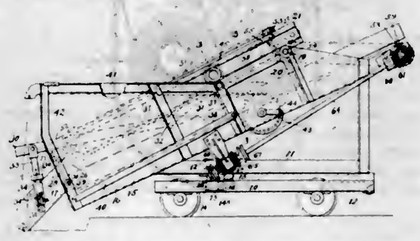
1,377,302. MACHINE FOR MAKING MACADAMIZED ROADS. CARL JULIUS ÅBERG, Stenstorp, Sweden. Filed Oct. 8, 1920. Serial No. 415,584. 9 Claims. (Cl. 94—44.)

1. The combination with a stone roller and crusher, of a stone grader receiving stone from the crusher and provided with a perforated plate, means for spreading stone delivered by the plate and for directing the same beneath



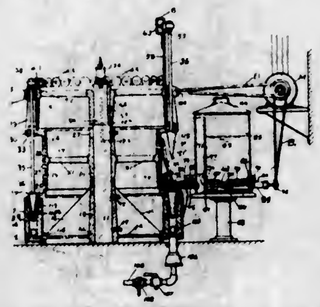
the roller, and a second means for spreading the stone which falls through the perforations of the plate.

1,377,303. LOADING-MACHINE. FRANK BILLINGS and ROBERT P. GREENLEAF, Cleveland, Ohio; said Greenleaf assignor to said Billings. Filed Apr. 25, 1918. Serial No. 230,652. 14 Claims. (Cl. 193—49.)



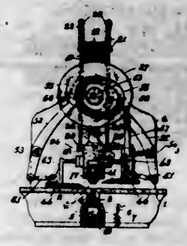
1. In a loading machine, a frame, mechanism for scraping material rearwardly toward the frame comprising a hoe mounted for reciprocating movements forwardly and rearwardly and for swinging movements vertically, guides by which the hoe is caused to be swung vertically when reciprocated and is constrained to move in an upper plane when moving outwardly and in a lower plane when moving inwardly, and means for adjusting the guide which controls the lower path of movement relative to the guide controlling the lower path of movement.

1,377,304. METHOD OF AND APPARATUS FOR FORMING MOLDED HOLLOW ARTICLES. ROBERT W. BORCHARD, Milwaukee, Wis., assignor of one-half to John J. Kane, Milwaukee, Wis. Filed Dec. 10, 1914. Serial No. 876,585. 52 Claims. (Cl. 107—58.)



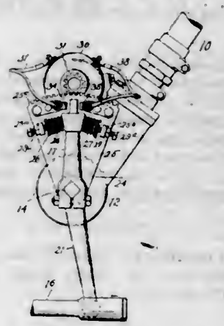
5. In apparatus for forming baked hollow articles, a plurality of molds adapted to receive batter, a series of cores adapted to enter and partially fill said molds, means for automatically and successively removing said cores and baked articles that may adhere thereto from said molds and causing the stripping of said baked articles from said cores, and means for supplying a quantity of batter to said molds while the corresponding cores are separated therefrom.

1,377,305. SEAMING APPARATUS. JOHN W. BROWN and WILLIAM HESS, Philadelphia, Pa., assignors, by direct and mesne assignments, to Benjamin P. Obdyke, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 26, 1919. Serial No. 326,511. 30 Claims. (Cl. 113—54.)



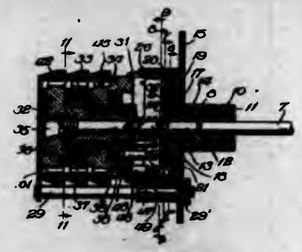
1. In seaming apparatus, the combination of a reciprocally-mounted anvil plunger, a folder having folding lips adapted to extend on opposite sides of the plunger and to fold sheets of material about the plunger to form an inverted, trough-shaped portion of the sheets, tuckers reciprocally mounted for approaching such trough-shaped portion laterally, a hammer plunger adapted to collapse the folds of the trough-shaped portion after the tucking operation thereon, and means for actuating all of said parts timed to cause the anvil plunger to retract after the formation of the trough-shaped portion, the folder to retract, the tuckers to advance and tuck parts of the trough-shaped portion under other parts thereof, tuckers to retract, the folder lips to descend and inclose the thus tucked trough-shaped portion and the hammer plunger to deliver a collapsing blow on such trough-shaped portion while thus confined.

1,377,306. DUAL CONTROL OF MECHANISM. ALANSON P. BRUSH, Detroit, Mich. Filed Sept. 16, 1918. Serial No. 254,260. 5 Claims. (Cl. 180—80.)



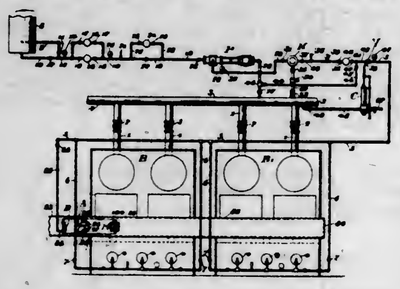
1. The combination with mechanism-to-be-operated, of a primary operating instrumentality therefor capable of moving the mechanism-to-be-operated in either of two opposite directions, a normally inoperative secondary motor-driven operating instrumentality also capable of moving the mechanism-to-be-operated in either of said directions, and means whereby the secondary operating instrumentality will be automatically caused to move in that direction which will cause a movement of the mechanism-to-be-operated in the desired direction when the resistance to such movement in the desired direction exceeds a predetermined maximum.

1,377,307. COMBINATION-LOCK FOR AUTOMOBILES. ARTHUR HERBERT BUCKLEY, Sydney, New South Wales, Australia. Filed Jan. 17, 1920. Serial No. 352,052. 7 Claims. (Cl. 70—53.)



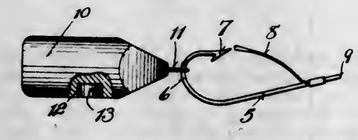
1. A combination lock, comprising a perforated disk having a hub, a plurality of rotatable sleeves movable toward and away from said disk, means carried by said sleeves arranged to enter the perforations in said disk, for rotating said disk when the sleeves are rotated, and rings disposed exteriorly of said sleeves and concentric therewith for rotating the latter at will.

1,377,308. CONTROL SYSTEM FOR OIL-BURNERS. CHARLES B. BUERGER, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 17, 1920. Serial No. 389,613. 2 Claims. (Cl. 158—45.5.)



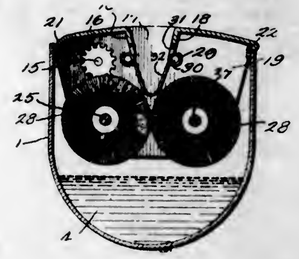
1. The combination with a burner, of means for supplying oil thereto under varying pressure, a duct, throttling structure therein controlling the supply of combustion supporting medium, means responsive to said variations in oil pressure, and a cam controlled by said pressure responsive means and controlling said throttling structure, whereby the supply of combustion supporting material is directly proportional to the oil supplied to said burner.

1,377,309. FISH-BAIT. JESSE J. CHAPEL, Packwaukee, Wis. Filed Oct. 26, 1918. Serial No. 259,848. 1 Claim. (Cl. 43—42.)



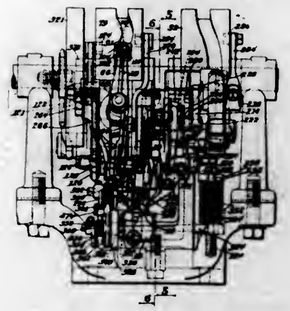
A fishing bait of the class described comprising a body member having a major portion of cylindrical shape, said cylindrical major portion being of substantially uniform diameter throughout its length, one end of the body being substantially square with the axis thereof, the opposite end portion of the body being taperingly reduced and provided with inclined substantially flat top, bottom and side faces, said faces defining substantially square cross-sectional areas throughout said taperingly reduced end portion, an eye extended from the end of said taperingly reduced portion of the body, the entire surface of the body being otherwise devoid of projecting elements, said eye being adapted to loosely receive the bill of a hook therethrough, whereby when the same draws said body member through the water, the same will be evenly oscillated or wabbled both vertically and horizontally to cause the same to travel over a large area.

1,377,310. COMB-CLEANING DEVICE. NOEL B. CHARTIER, Providence, R. I. Filed June 7, 1920. Serial No. 387,273. 4 Claims. (Cl. 15—25.)



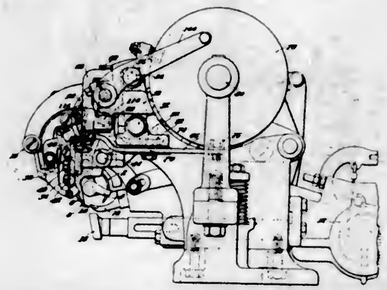
1. In a comb cleaner comprising a receptacle adapted to hold the cleansing fluid, a hinged cover arranged on said receptacle, a pair of rotating brushes carried by said cover and arranged within the receptacle, said cover having an opening therein for the insertion of a comb, and means for retaining the comb in position to be cleaned, said retaining means being disposed within the receptacles when the cover is in position.

1,377,311. WAX-THREAD SEWING-MACHINE. FRANK CHATEAUNEUF, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 7, 1917. Serial No. 166,943. 15 Claims. (Cl. 112—55.)



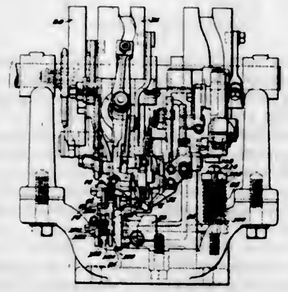
1. A wax thread sewing machine having, in combination, stitch forming devices including a hook needle, a looper, and means for imparting movements to the looper to lay the thread in the hook of the needle and additional movements to take up and give out thread.

1,377,312. SHOE-SEWING MACHINE. FRANK CHATEAUNEUF, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 7, 1917, Serial No. 166,943. Divided and this application filed Oct. 4, 1918. Serial No. 256,881. 14 Claims. (Cl. 112—50.)



1. An inseam shoe sewing machine, having in combination, stitch forming devices including a hook needle, a guide for engagement in the channel, a feed point arranged in advance of said guide in the direction of feed to engage the work upon the side of the between-substance opposite the needle, and means for advancing the feed point in the direction of feed into a limiting position out of line with the needle and for retracting the feed point, and for moving the channel guide with the feed point.

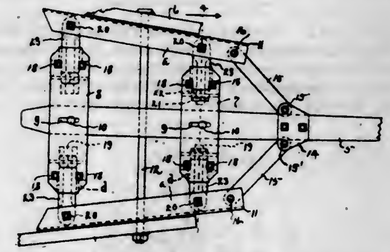
1,377,313. SHOE-SEWING MACHINE. FRANK CHATEAUNEUF, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 7, 1917, Serial No. 166,943. Divided and this application filed Oct. 4, 1918. Serial No. 256,882. 4 Claims. (Cl. 112—39.)



1. An inseam shoe sewing machine, having in combination, stitch forming devices including a hook needle, a work supporting device, a slide upon which said device is mounted, means for locking the slide in position during each cycle of operations comprising a threaded rod, a device into which the rod is threaded, an abutment actuated by the relative turning movement of the rod and said device for engaging the slide to lock the same, and means for relatively turning the rod and said device to actuate the abutment to lock and unlock the slide.

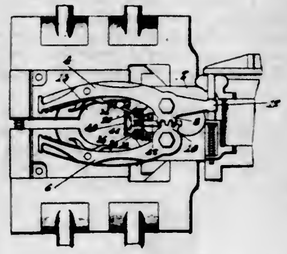
1,377,314. ADJUSTABLE TONGUE ATTACHMENT FOR VEHICLE-HOUNDS. ELMER N. CHILDS, Yale, Iowa. Filed Feb. 11, 1920. Serial No. 357,866. 5 Claims. (Cl. 278—43.)

1. In a tongue attachment for vehicle hounds, a pair of supporting-plates adapted to be disposed transversely of the tongue and to be adjusted longitudinally thereof, a plurality of brackets each having a horizontal flange connected with a supporting-plate and provided with an apertured, vertical flange, spacing-bolts each having a threaded part engaging in a vertical flange of a bracket



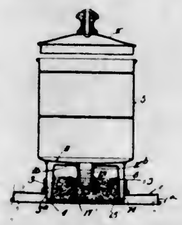
and projecting outwardly of an end of a supporting-plate, a pair of auxiliary hounds outwardly of the sides of the tongue and connected with the spacing-bolts, and revoluble members on the threaded parts of the spacing-bolts for moving the latter and said auxiliary hounds transversely of the tongue.

1,377,315. HEEL-FEEDING DEVICE FOR MACHINES FOR OPERATING ON HEELS. THOMAS BAGGOT CLARKE, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 3, 1918. Serial No. 243,129. 7 Claims. (Cl. 12—48.)



1. In a machine of the class described, the combination of a heel-clamp having heel-feeding movement, an abutment engaging a lateral face of the heel for locating the heel during the feed, and means acting during the feed to move the abutment automatically toward the heel relatively to the clamp about an axis extending transversely of the height of the heel.

1,377,316. APPARATUS AND PACKAGE FOR FORMING SOLUTIONS BY PERCOLATION. JOHN B. CLERMONT, New York, N. Y. Filed Aug. 25, 1916. Serial No. 116,797. 8 Claims. (Cl. 53—3.)



1. In a percolating apparatus, the combination of a receptacle and a base, each having part of an inclosure, means carried thereby adapted to so engage the hereinaf-

ter-mentioned cartridge as so make a water-tight connection with its sides, said receptacle having a bottom provided with a perforated nozzle, and a cartridge having a pervious bottom and having a top with an opening adapted to receive said nozzle.

1,377,317. PRESSURE-CONTROLLED ELECTRIC SWITCH. ALBERT B. COBB, Boston, Mass., assignor to Cobb Electric Appliance Co., Boston, Mass., a Corporation of Massachusetts. Filed July 16, 1918. Serial No. 245,258. 4 Claims. (Cl. 200—81.)



1. In a pressure operated switch, a switch unit comprising a relatively rigid arm having a hub or eye at one end adapted to be mounted upon a pivot, a flexible and resilient strip rigidly secured to said arm near said hub or eye and being both insulated from the arm and separated therefrom by a space, and complemental contact members mounted upon said arm and flexible strip, respectively, at a distance from the connection between said arm and strip, whereby resilient movement of the arm is effective to cause separation and engagement of the contact members, the pivotal mounting of said arm enabling both contacts to be adjusted as to position in unison.

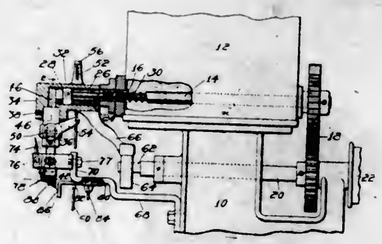
1,377,318. COMBINED INSULATED STEM AND JOINT. PETER F. CONNOLLY, Chicago, Ill. Filed Sept. 13, 1920. Serial No. 409,774. 3 Claims. (Cl. 240—85.)



1. In an insulating stem and joint, the combination of a tubular member, a plug secured in one end thereof, said plug having a channel formed therein, the end of which channel terminates at an opening through the wall of the stem.

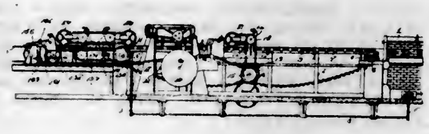
1,377,319. CEMENTING APPARATUS. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 17, 1918. Serial No. 267,190. 28 Claims. (Cl. 91—39.)

1. In a cementing apparatus, a movable cement-applying member, and a member situated at one side of the applying member and arranged to define the line between the coated and uncoated areas, it extending substantially the full length of the path of movement of the applying member.



20. In a cementing apparatus, a cement-applying member, a carrier therefor, and actuating means for the applying member connected to the carrier at a plurality of points.

1,377,320. METHOD OF AND APPARATUS FOR CUTTING SHEET-GLASS. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 2, 1917. Serial No. 146,065. 49 Claims. (Cl. 49—48.)



16. In glass cutting apparatus, the combination of a device for scoring a sheet of glass, and means operating concomitantly with the scoring operation to crack the glass along the score.

38. The combination with means to score a web of glass longitudinally, of means to score the longitudinally scored portion transversely, and means operating on the longitudinally and transversely scored portion of the web to crack the glass along the longitudinal scores.

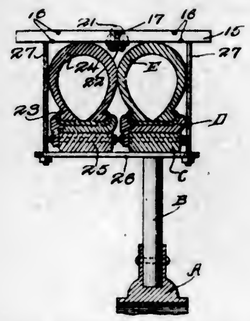
49. The method of cracking glass, which consists in extending a score along the surface thereof, and concomitantly applying a series of taps or blows progressively along the score at a substantially constant distance from the point to which the score has been extended, thereby progressively cracking the glass along the score.

1,377,321. DETACHABLE TREAD FOR TRACTION-WHEELS. HENRY A. DENISON, Waterville, Me. Filed Nov. 17, 1917. Serial No. 202,666. 2 Claims. (Cl. 301—39.)

1. The combination with a wheel body having a tire thereon, of a separate rim, a second tire mounted on said rim, interlaced slats adapted to extend across the tread portions of both tires, and means binding the slats upon the tires and embracing said rim and said wheel body for rigidly securing the separate rim and the second tire beneath said slats.

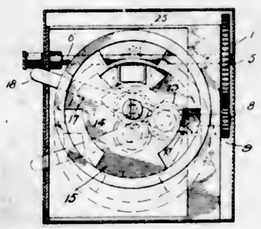
2. The combination with a wheel body having a tire thereon, of a separate rim with a tire, and traction means securing the second rim and tire against the side of the wheel body and its tire, the traction means comprising

a plurality of interlaced tread elements of a width to extend beyond the outer sides of the tires and clamping



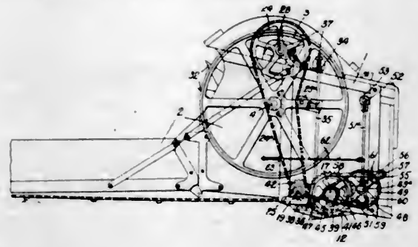
means engaging the opposite ends of the tread elements and embracing the tires and the rim and wheel body for rigidly connecting all of the parts together.

1,377,322. MOTION-PICTURE CAMERA. AUGUSTUS R. DE TARTAS, Rockville Center, and FRANK MLADINICH, New York, N. Y. Filed Nov. 24, 1920. Serial No. 426,224. 5 Claims. (Cl. 88—19.3.)



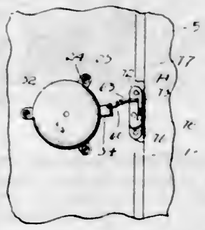
1. In a motion picture camera, the combination of a lens, a rotatable shutter having a plurality of openings at different distances from its axis, some of said openings being adapted for projection purposes and the balance being adapted for film exposing purposes, means for varying the distance between the axes of said lens and shutter, and means for rotating said shutter when said axes are at either of two different distances.

1,377,323. BAND-CUTTER AND FEEDER. AMEDEE DION and BRUNO DION, Ste. Therese De Blainville, Quebec, Canada. Filed Aug. 21, 1920. Serial No. 405,066. 10 Claims. (Cl. 130—1.)



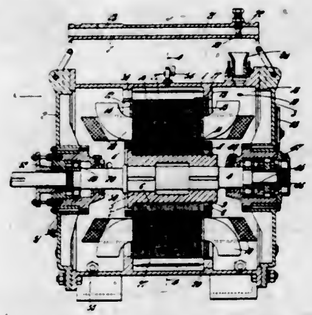
1. In a machine of the character described, the combination of a rotatable crank-shaft; a retarder drum encircling said shaft and provided with band cutters; a cross-shaft projecting through said drum; a pinion mounted on said shaft adapted to actuate said drum; a supporting member mounted on said shaft adapted to support said drum; connections between said cross-shaft and said crank-shaft for rotating the former; a carrier for delivering bundles beneath said drum; driving connections between said carrier and said cross-shaft; a centrifugal governor carried by said crank-shaft; a mechanism controlled automatically by said governor for interrupting the driving connections of said cross-shaft; and reciprocating feeding bars mounted on said crank shaft.

1,377,324. BURGLAR AND FIRE ALARM. WILLIAM J. DRIVER, Chicago, Ill. Filed Apr. 14, 1920. Serial No. 373,715. 2 Claims. (Cl. 116—94.)



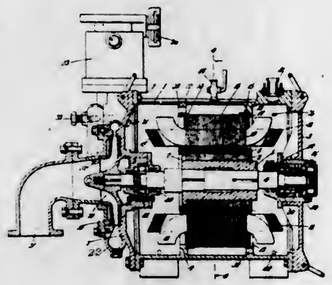
1. A device of the character described, including in combination with a main plate provided on one of its faces with an outer and an inner guide, a spindle centrally located on said plate, a bell surrounding the spindle and suitably mounted on said plate, an arm pivotally connected near one of its ends to the plate and having at its other end a hammer adapted to strike the bell, means to vibrate the hammer and its arm, a spring actuated bar having a longitudinally disposed slot to receive said spindle and slidably and pivotally mounted between said guides on said plate and extended at one of its ends beyond the edge of the latter, said bar having in one of its edges a recess to engage the outer guide and in its other edge a recess to engage the inner guide, said bar also having a detent adapted to engage said hammer arm when the bar is in its projected position, and means at the outwardly projected portion of the bar to release the same.

1,377,325. ELECTRIC MOTOR. CHARLES WRIGHT DURNFORD, West Ealing, England, assignor to Submersible & J-L Motors, Limited, Southall, England. Filed Dec. 6, 1917. Serial No. 205,871. 2 Claims. (Cl. 172—36.)



1. A submersible electric motor having a casing and passages whereby cooling fluid can be circulated through the casing and be brought into contact with the operative parts of the motor and in which means are provided for varying the size of the inlet and the size of the outlet for the cooling fluid.

1,377,326. COMBINED PUMP AND ELECTRIC MOTOR. CHARLES WRIGHT DURNFORD, West Ealing, England, assignor to Submersible & J-L Motors, Limited, Southall, England. Filed Dec. 6, 1917. Serial No. 205,872. 6 Claims. (Cl. 103—43.)



1. A combined submersible pump and electric motor in which the pump serves to circulate water through the motor casing and in which means are provided for controlling the flow of water before it enters and when it leaves the motor casing.

2. A combined submersible pump and electric motor in which a part of the water delivered by the pump is circulated through the motor casing and in which means are provided for controlling the flow of water before it enters and when it leaves the motor casing.

3. A combined submersible pump and electric motor in which a part of the water delivered by the pump is led to the motor casing and then returned to the suction side of the pump and in which means are provided for controlling the flow of water before it enters and when it leaves the motor casing.

4. A combined submersible pump and electric motor in which the pump serves to circulate water through the motor casing and in which needle valves are provided for controlling the flow of water before it enters and when it leaves the motor casing.

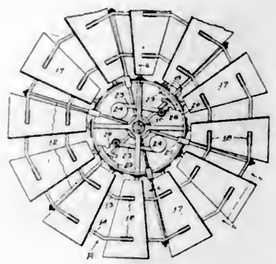
5. A combined submersible pump and electric motor of the induction type in which the pump serves to circulate water through the motor casing and in which water has access to the outside of the stator, the gap between the stator and rotor, and the slots in which the stator windings are placed, there being means for controlling the flow of water before it enters and when it leaves the motor casing.

1,377,327. CARD GAME. FREDERICK J. EBERT, Mount Vernon, Wash. Filed July 7, 1920. Serial No. 394,507. 3 Claims. (Cl. 46—25.)



1. A pack of cards in combination comprising two groups of equal number distinguished by different colors, each group consisting of twenty-eight cards, with numeral affixed on each bearing relation to the infrequency of use of the letters in English words, twenty-six of which also bearing a single letter of the alphabet, one in each group bearing the symbol "&," and one in each group bearing the word "T-R-E-B-E," as described.

1,377,328. WINDMILL-FAN. HENRY ERIC EGGERTH, Minneapolis, Minn. Filed Jan. 12, 1920. Serial No. 350,905. 4 Claims. (Cl. 170—68.)



1. In a device of the class described, the combination with a wind mill fan shaft, of a frame fixed to said shaft and revolnble therewith, rock shafts mounted radially in said frame, blades carried by said shafts, gear quadrants on the shafts, a ring gear loosely mounted on the fan shaft and meshing with said gear quadrants, racks on said ring gear, governor arms pivoted on the frame and a gear quadrant on each governor arm in mesh with one of the racks on the ring gear.

1,377,329. METHOD OF MAKING SHOES. KARL ENGEL, Arlington, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1918. Serial No. 245,658. 15 Claims. (Cl. 12—142.)



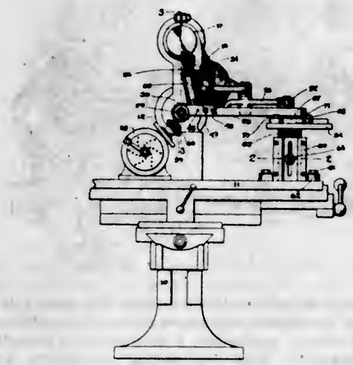
1. That improvement in methods of making shoes which consists in forming a shoe upper with a counter pocket, inserting a tempered counter in the pocket, securing the counter to the upper along a line spaced from its edge by the width of the sole attaching margin, forming the margin as a flange for attachment of a sole, and then completing the shoe in the usual manner.

15. That improvement in methods of making shoes which consists in preparing a shoe upper, sewing a seam in the upper while it is yet unattached to the other parts of the shoe along its margin at a distance from its edge substantially equal to the width of the flange required for attachment of the sole, bending the upper at said seam, and completing the shoe by attachment of the sole to the flange in the usual manner.

1,377,330. GEAR-CUTTING ATTACHMENT FOR MILLING-MACHINES. MATHIAS FOGDE, Richmond, Va. Filed Jan. 9, 1920. Serial No. 350,333. 12 Claims. (Cl. 90—5.)

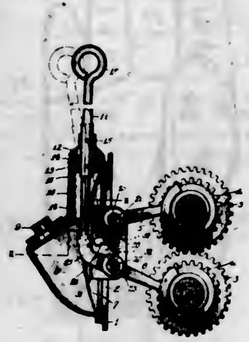
1. An attachment of the character described for milling machines having a main shaft provided with a socket, and having an over hanging arm, consisting of a bracket attachable to the over hanging arm, a cutter shaft including inner and outer sections having a universally movable slip joint connection therebetween, the outer section of which is adapted to support a milling cutter and the inner section of which has a spindle for engagement with the socket of the milling machine shaft, a lever

movably mounted in connection with the bracket and having bearings for the outer section of the cutter shaft, a cam rotatably supported by the bracket and having a geared connection with the inner section of the cutter



shaft, horizontally shiftable connections actuated by the cam and engaged with the said lever, and means for swinging the lever vertically during its horizontal shifting movements.

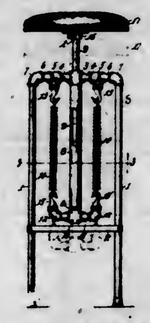
1,377,331. GEAR-SHIFT-LOCKING DEVICE. HENRY FORD, Dearborn, Mich. Filed July 10, 1918. Serial No. 244,152. 4 Claims. (Cl. 74—39.)



3. The combination of a gear shift plate, bearings carried thereby, reciprocable rods in said bearings and disposed one above the other, gear shifters carried by said rods, a fulcrum lever supported from said plate and adapted for engagement with either gear shifter to reciprocate either rod, and means in one of said bearings between said rods adapted to normally lock said rods against accidental movement and permit of either rod being shifted by said lever.

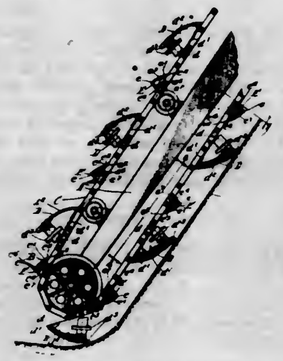
1,377,332. MOTORMAN'S STOOL. LOUIS G. FRANZ, St. Louis, Mo., assignor of one-half to John W. Franz, St. Louis, Mo. Filed Oct. 13, 1920. Serial No. 416,628. 2 Claims. (Cl. 155—52.)

1. In a stool of the character described, a body portion, a central tube or sleeve depending therefrom, a stem reciprocable in said sleeve and projecting upwardly above the body of the stool, a seat secured to the upper projecting end of the stem, a series of springs depending from the body and disposed around the sleeve, a central fitting coupled to the springs and forming a support or bearing



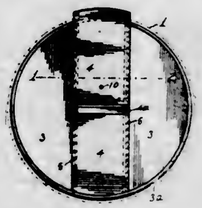
for the lower end of the stem and ball-bearings disposed within said fitting, said stem being rotatable on the ball-bearings.

1,377,333. TRENCHING-MACHINE. JAMES C. FRENCH, Kenosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Filed Sept. 28, 1914. Serial No. 863,854. 4 Claims. (Cl. 37—23.)



1. An excavator comprising laterally spaced endless chains, main excavating elements mounted between the chains, scoop-shaped auxiliary excavating elements carried by the chains between which the first-mentioned excavating elements are mounted, said auxiliary excavating elements being open at their rear ends to discharge inwardly and projecting laterally from the sides of the chains and working beyond the sides of the first-mentioned excavating elements.

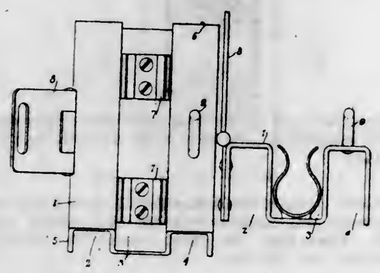
1,377,334. BARREL-HEAD. OSCAR M. FULWIDER and ALBERT E. BURAUSS, Norfolk, Va. Filed Mar. 23, 1920. Serial No. 368,003. 1 Claim. (Cl. 217—79.)



A device of the class described and in combination with a barrel, of a head therefor comprising fixed outer mem-

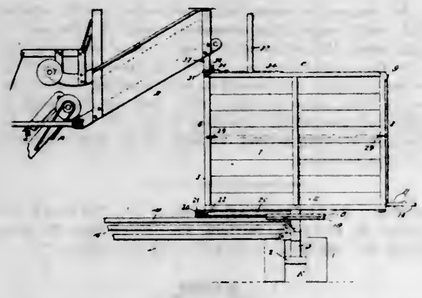
bers and hinged central members, rabbeted and beaded packing fitted means between said members, a detachable bar at right angles to the members for holding the same in position, holding straps for said bar, one of the said straps adapted to be hingedly fitted to permit a part of the same to be swung aside to release the bar from the outer and central members.

1,377,335. LOCKING DEVICE. JOHN E. GIMPERLING, Dayton, Ohio, assignor of one-fourth to Clarence N. Greer, Dayton, Ohio. Filed Nov. 4, 1919. Serial No. 335,628. 5 Claims. (Cl. 70—128.)



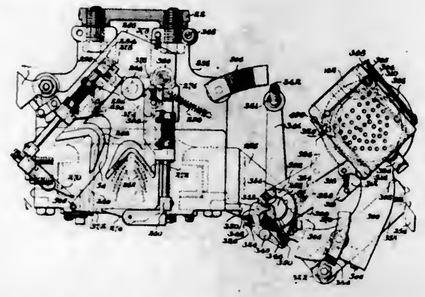
1. A locking device for a foot lever of a motor vehicle comprising a locking block adapted to be interposed between the tread portion of said lever and the floor of the vehicle to lock the lever in raised position, and having a longitudinal channel formed therein to receive the stem of the foot lever, and a spring clamp arranged in said channel to embrace said stem whereby to hold the locking block yieldingly in normal relation to said lever, and means to lock the frame in said relatively fixed relation to said lever.

1,377,336. APPARATUS FOR FORMING AND DEPOSITING STACKS OF GRAIN AND THE LIKE. DAVID M. GRAHAM, Bordulac, N. D., assignor to Graham-Roach Harvester and Stacker Company, a Corporation of North Dakota. Filed May 20, 1918. Serial No. 235,547. 13 Claims. (Cl. 214—9.)



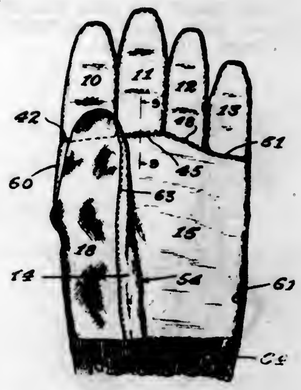
1. In an apparatus for forming and depositing stacks of grain and the like, the combination of a wheeled support, a stack former mounted and transportable thereon and adapted to receive grain in loose unbound condition and form the same into a relatively solid stack, means for depositing a formed stack from said former, a substantially vertical pivotal connection between said stack former and its support whereon the stack former may turn in substantially horizontal planes to accommodate itself to the stack while the latter is being deposited, including a bottom which is tiltable downward relative to the upstanding walls of the stack former.

1,377,337. NAIL-TRANSFERRING MECHANISM. HENRY B. GREENOUGH, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 3, 1918. Serial No. 237,954. 20 Claims. (Cl. 1—32.)



1. In a machine of the class described, the combination with nailing mechanism, of mechanism for transferring nails to the nailing mechanism, a movable work-engaging member coöperating with the nailing mechanism, and means controlled by said member and arranged to limit the movement of the mechanism during its nail-transferring travel.

1,377,338. GLOVE. BRAYTON C. GRINNELL, Seattle, Wash. Filed July 31, 1920. Serial No. 400,441. 1 Claim. (Cl. 2—9.)

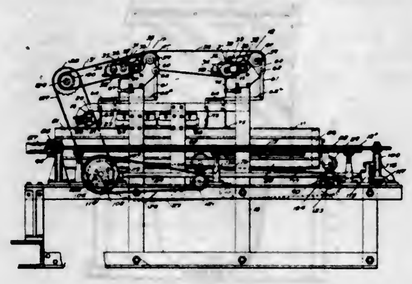


An article of manufacture, a back seam glove comprising a palm portion, four finger fourchettes adapted to be attached to the said palm portion to form a continuous seam adapted to be disposed adjacent the base of the fingers to fit in the crevices formed by the said fingers and palm of the wearer, the said finger fourchettes having prolongations extending beyond the upper extremity of each fourchette which prolongations are adapted to be turned over the ends of the fingers, a back for the said glove having integral back portions for the said finger fourchettes which are adapted to be attached on their upper ends to the turned over ends of the said prolongations, and a thumb member for the said glove.

1,377,339. MACHINE FOR SOLDERING THE JOINTS OF SHEET-METAL CANS. CHARLES F. HAKE, Jr., Cincinnati, Ohio. Filed Dec. 15, 1916. Serial No. 137,076. 6 Claims. (Cl. 113—62.)

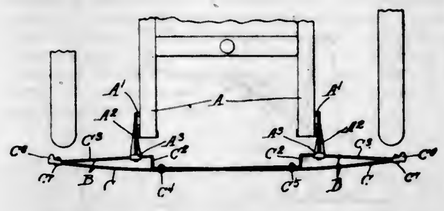
1. A machine for soldering the joints of sheet meal cans having a plurality of longitudinal joints, comprising a

way for the cans, means to feed the can longitudinally along the way, a plurality of soldering means each adapted to individually solder a seam as the can passes over the



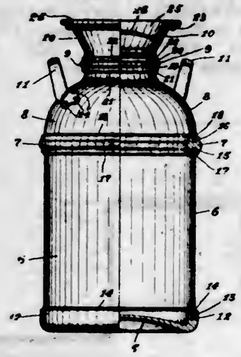
way, means adapted to feed solder to each of the soldering mechanisms, and means controlled by the can bodies as they pass through the machine adapted to control the operation of the solder feeding mechanisms.

1,377,340. BUMPER-BAR. LEWIS P. HALLADAY, Decatur, Ill. Filed Dec. 1, 1920. Serial No. 427,476. 21 Claims. (Cl. 293—55.)



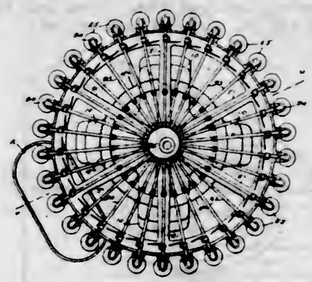
13. A bumper comprising two identical flat spring elements, each element having a central portion bent vertically out of line with the two end portions, each of the end portions being bent first rearwardly and then laterally.

1,377,341. MILK-CAN. HANS G. HANSEN, Richmond Beach, Wash. Filed May 3, 1920. Serial No. 378,691. 1 Claim. (Cl. 220—80.)



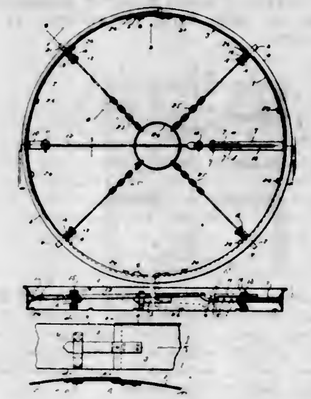
In a milk can comprising a concavo-convex bottom plate, an upwardly projecting peripheral flange formed thereon having an annular groove in the upper face thereof, a body section having its lower ends adapted to be fixedly secured within said annular groove, a hoop having annular grooves formed in its upper and lower faces, said lower annular groove being adapted to receive the upper end of the said body section which is adapted to be fixedly secured therein, a curved upper section having its lower end adapted to be secured within said upper annular groove of said hoop, a neck hoop having annular grooves formed in its upper and lower faces, the said lower annular groove in said neck hoop being adapted to receive the upper end of said curved upper section which is adapted to be fixedly secured therein, an upwardly flaring neck section having its lower end adapted to be fixedly secured within said upper groove formed in said neck hoop and having its upper flared end rolled to form a peripheral channel, a reinforcing ring disposed in said channel, a closure for said can, a hand hold for said closure, and a plurality of hand holds fixedly secured to said upper curved section.

1,377,342. PULP-MOLDING APPARATUS. HENRY P. HARBRECHT, Sandusky, Ohio. Filed July 1, 1919. Serial No. 307,891. 11 Claims. (Cl. 92—56.)



1. In a device of the type described, a support, a mold section embodying a revolving suction element carried by said support, means for rotating said support, means actuated by the rotation of said support for revolving said suction element, and means actuated by the rotation of said support for reciprocating said mold section.

1,377,343. RIM FOR MOUNTING TIRES. HARRY B. HARDY, Quincy, Calif. Filed May 5, 1920. Serial No. 379,021. 3 Claims. (Cl. 157—1.)



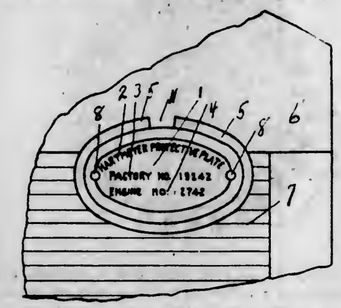
1. In a tire setter of the character described, a circular rim, means for contracting and expanding the rim, the rim provided with slots extending through from its inner to its outer periphery, and tire engaging levers having their intermediate portions pivotally supported by the rim and their outer ends movably disposed in said slots.

1,377,344. HASP. JOHN D. HARRELL, Belleview, Fla. Filed Oct. 26, 1920. Serial No. 419,747. 3 Claims. (Cl. 292—285.)



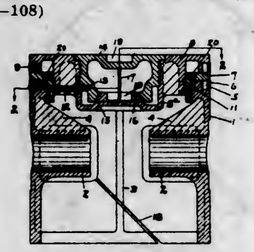
1. A hasp comprising two members connected by a horizontal pivot to permit of angular movement of the members with relation to each other, means for limiting such angular movement, one of said members adapted to be pivotally connected adjacent its free end with a gate or gate post and the other member provided with a slot to receive a staple secured to the gate post or gate, and a hook bar having longitudinally movable and pivotal connection with the pivotal member of said hasp and adapted to engage the staple passing through the slot in the other member of the hasp.

1,377,345. AUTOMOBILE-MARKING DEVICE. LEWIS I. HARTMEYER, Cleveland, Ohio. Filed Feb. 28, 1921. Serial No. 448,525. 3 Claims. (Cl. 40—10.)



1. An automobile marking device comprising a suitable portion of the automobile as a base, a plate bearing identifying marking, a collar surrounding the plate and holding it from contact with the base, an aperture in the collar, rivets holding the plate in place and the collar against the base, and melted metal inserted through the aperture and filling the space between the plate and base and intimately associated with the base.

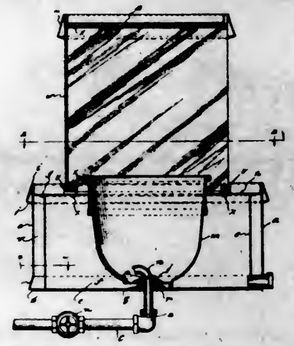
1,377,346. PISTON. ELMER E. HAUER, Springfield, Ohio. Filed Apr. 15, 1920. Serial No. 374,182. 11 Claims. (Cl. 74—108)



8. In a piston, a body and piston rings and means in combination with said body to form a plurality of grooves in which said rings are seated, said means including members to hold said means in operative position, means to secure said holding members in holding position and a device to lock said securing means.

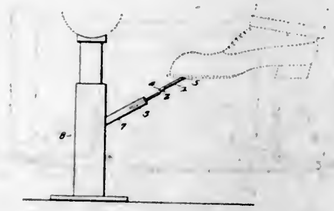
1,377,347. LIQUID-DISPENSING APPARATUS. SAM HEDGE, Detroit, Mich., assignor to Hedge's Orange Ale Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 13, 1920. Serial No. 423,912. 5 Claims. (Cl. 225—29.)

1. In liquid dispensing apparatus, the combination of an ice container, a bowl supported in the ice container, and a hood supported upon the ice container over the



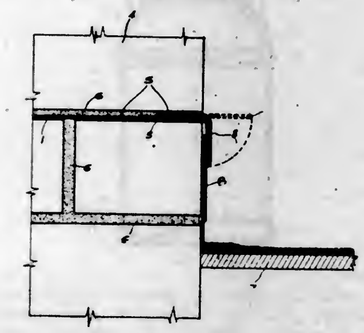
bowl and provided with an open side giving access to the bowl.

1,377,348. TOOL. FRANK HARGREAVES HILLIARD, Fitzgerald, Ga., assignor of one-half to Harman L. Smith, Fitzgerald, Ga. Filed Jan. 2, 1920. Serial No. 348,834. 1 Claim. (Cl. 74—81.)



A jack operating tool comprising an integral metallic structure including a flat rectangular blade having extending from one end thereof an elongated reduced portion constituting a handle, said handle having its free end offset to define a shoulder, the handle being insertible into a jack structure with the shoulder serving as a stop to limit the degree of insertion, and said blade serving as a foot pedal.

1,377,349. COMBINED WATERPROOF SHEET AND FLASHING RECEPTACLE. JOHN I. HOLDER, Copiague, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed June 17, 1919. Serial No. 304,962. 6 Claims. (Cl. 108—26.)



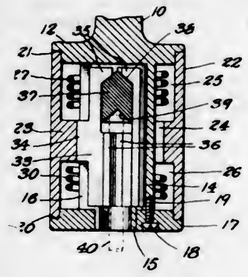
4. In combination, a brick wall, a waterproof sheet between two courses of said wall, said sheet having a metal strip attached to one edge thereof extending beyond the face of said wall and said sheet extending between said courses further than said strip.

1,377,350. MILK-BOTTLE CARRIER. WILLIAM HOSKIN, Denver, Colo., assignor of one-third to Led L. Richardson, Denver, Colo. Filed Apr. 11, 1919. Serial No. 289,418. 4 Claims. (Cl. 215—100.)



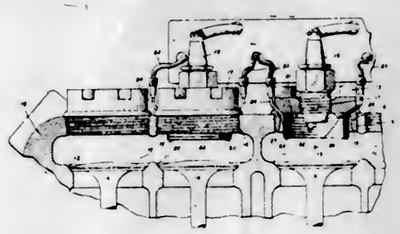
1. In a bottle carrier, a bottom frame, a pair of convergingly arranged legs extended upwardly therefrom, a pair of yieldable neck embracing arms disposed in a plane with the frame, and overhanging the same, a handle-loop disposed above the arms, a yieldable seat between the arms and handle-loop for engaging the upper edge of the bottle neck when a part of the body of the bottle is engaged between the legs.

1,377,351. CHUCK. ERNEST HOYLE, Brooklyn, N. Y. Filed Feb. 11, 1920. Serial No. 357,962. 5 Claims. (Cl. 279—72.)



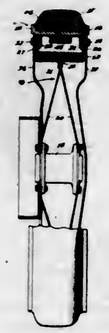
1. A chuck device of the class described comprising a shank having a tubular extension at one end thereof, a plurality of jaw members mounted in and movable radially of said extension, said shank being provided at the inner end of said tubular extension with an enlarged head, a disk secured to the outer end portion of said tubular extension, a rotatable sleeve member mounted on said tubular extension between said head and said disk, said sleeve member being provided with a plurality of cam faces adapted to operate in connection with said jaw members, tensional means operating in connection with said sleeve member for normally holding the jaw members in their innermost position by the action of the cam faces thereon, means whereby the rotation of said sleeve member against said tensional means will release the cam faces from said jaw members, and means operating in connection with said jaw members and in connection with which a tool inserted into the chuck device operates for aiding the gripping action of said jaw members.

1,377,352. HYDROCARBON-MOTOR. CHESTER F. JOHNSON, Detroit, Mich, assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 11, 1917. Serial No. 161,235. 3 Claims. (Cl. 123—143.)



1. In an internal combustion engine and in combination with a cylinder having a port, a valve coöperating with said port, and an opening formed in the cylinder wall and located adjacent said port and through which opening said valve may be removed from its seat: a cap or plug member secured in place within said opening and having a threaded orifice in its end wall adapted to receive a spark plug: and a heating coil carried by said cap and located within the engine cylinder and surrounding the orifice aforesaid in said cap member.

1,377,353. WHEEL. WALTER B. KERRICK, Los Angeles, Calif. Filed Apr. 14, 1919. Serial No. 289,964. 11 Claims. (Cl. 152—28.)

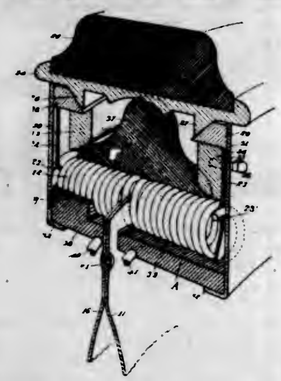


1. In a wheel, an inner member and an outer member including a rim, a series of spiral springs having their intermediate portions rigidly affixed to the inner member and their end portions rigidly affixed to the outer member, said springs arranged to extend substantially parallel with the axis of said inner member, and means embodied in the connection between the ends of said springs and the outer member for collectively demountably attaching and detaching the springs relative to the rim to permit removal and replacement of the rim without separately disengaging the springs.

1,377,354. WHEEL. WALTER B. KERRICK, Los Angeles, Calif. Filed Apr. 12, 1920. Serial No. 373,033. 11 Claims. (Cl. 152—28.)

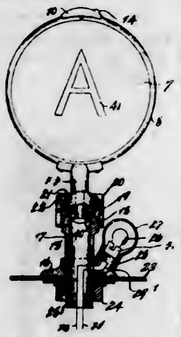
6. In a wheel, an inner wheel member, an outer wheel member, a series of laterally disposed helical springs projecting from the sides of said inner wheel member and connecting at their outer extremities with the sides of said outer wheel member, an annular cushion member bearing between the outer sides of said springs and the outer wheel member, having recesses on its inner wall

in which said springs extend, and an inner annular cushion member inclosing the inner sides of said springs and



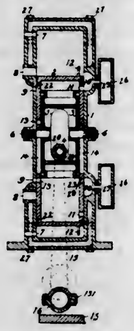
having cavities on its outer wall into which said springs project.

1,377,355. VEHICLE-MIRROR. WILLIAM KNAPP, Bayonne, N. J. Filed Oct. 6, 1919. Serial No. 328,792. 2 Claims. (Cl. 45—97.)



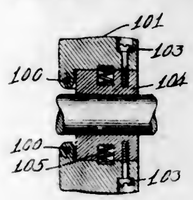
2. An adjustable connection consisting of a support, having an indenting portion, a body of relatively soft material contacting with said indenting portion, and means to force the relatively soft body firmly against the indenting portion of the support.

1,377,356. INTERNAL-COMBUSTION ENGINE. JOSEPH O. W. LAVALLEE, Montreal, Quebec, Canada, assignor to Caron Brothers, Montreal, Quebec, Canada. Filed Mar. 11, 1920. Serial No. 365,066. 14 Claims. (Cl. 123—57.)



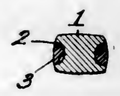
1. In an internal combustion engine of the two cycle type, a double ended piston journaled to connecting rods outside the cylinder, and a central cylindrical stationary member within the piston, secured to the cylinder walls by retaining pins through slots in the piston walls, adapted to form compression chambers as described.

1,377,357. SPACE-BAND CLEANER. JOHN LIST, Lake George, Mich. Filed June 23, 1917. Serial No. 176,542. 2 Claims. (Cl. 51—190.)



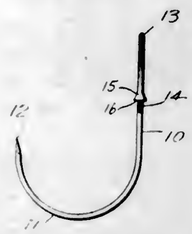
1. In a space band polishing device, a polishing roll formed of several segments pivoted to the base of the roll and means for changing the diameter of the roll consisting of springs adapted to force the segments outwardly on their pivots and adjusting screws adapted to limit movement of the said segments.

1,377,358. ALL-PORCELAIN TOOTH. HOWARD S. LOWRY, Kansas City, Mo. Filed May 19, 1920. Serial No. 382,513. 4 Claims. (Cl. 32—12.)



1. The combination in bridgework of a series of adjacent artificial teeth provided with metal reinforcements embedded rigidly in and extending across the bases of the teeth and along the sides thereof, and means uniting the juxtaposed portions of the reinforcements of adjacent teeth.

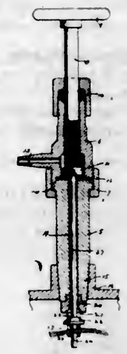
1,377,359. SURGICAL NEEDLE. DANA M. LITTLEJOHN, Pana, Ill. Filed June 24, 1920. Serial No. 391,390. 16 Claims. (Cl. 128—339.)



1. In a surgical needle a body portion provided upon its ends with finger receiving hooks, one of said hooks being provided with a piercing point and the other of said hooks being provided with an eye.

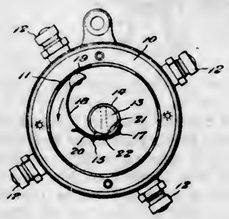
1,377,360. GAGE-COCK. MORGAN MELVIN, Niagara Falls, N. Y. Filed July 15, 1919. Serial No. 311,077. 4 Claims. (Cl. 277—27.)

4. A gage-cock comprising an inner member, having a passageway therethrough, an outer detachable member, a union connection between the members, a removable flat valve seat in the union connection, a valve stem threaded into the outer member and having a flat face main valve engageable with the flat valve seat, an auxiliary valve cage secured to the inner member having a valve seat, a centrally arranged port in line with the passageway, and curved portions having grooves at each side of the cage, an auxiliary stem attached to the main valve and extend-



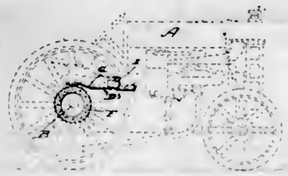
ing through the passageway and port, an auxiliary valve normally held open by the main valve auxiliary stem, a valve stem secured to the auxiliary valve and slidable through the end wall of the cage, and a spring in the cage for seating the auxiliary valve when the outer member of the body is detached from the inner member of the body.

1,377,361. TIMER-BRUSH. EARL L. MILLER, Overbrook, Kans. Filed Jan. 14, 1919. Serial No. 271,035. 16 Claims. (Cl. 200—26.)



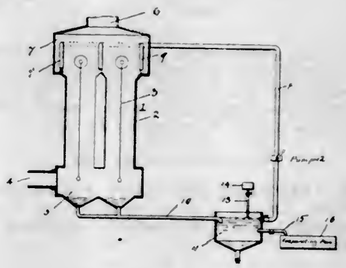
1. A timer brush comprising a rotary driving element; a spring arm mounted on and extending from and around said driving element, for making contact with the contact segments of a timer casing; and means carried by said driving element for restraining outward movement of the portion of said arm extending from and around said driving element.

1,377,362. SAFETY DEVICE FOR TRACTORS. THEODORE A. MILUTIN, Dearborn, Mich. Filed Apr. 16, 1920. Serial No. 374,308. 4 Claims. (Cl. 180—82.)



1. In a tractor, the combination of a driving clutch mechanism; means for releasing the clutch mechanism adapted to extend into the path of a rolling weight, and the rolling weight, adapted upon the tractor tilting to a certain degree of angularity to shift from its normal neutral position, to one whereby it is adapted to act upon the clutch releasing means, whereby the tractor may return to its normal position.

1,377,363. METHOD OF RECOVERING WATER-SOLUBLE MATERIAL FROM FURNACE-GASES. FREEMAN SCOTT MOON, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed July 5, 1918. Serial No. 243,389. 6 Claims. (Cl. 183—114.)



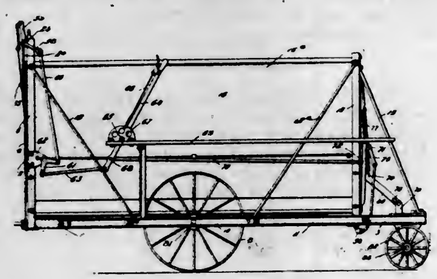
1. The method of removing water solubles from hot furnace gases, which consists in passing said gases in contact with a flowing stream of liquid in which a suspended constituent of the gas is soluble, in such manner as to collect in the liquid suspended constituents of the gases, including the material soluble in said liquid, adding to the liquid a retarder for preventing incrustation of constituents from the liquid on the surface over which it flows, separating insolubles from the liquid and returning the liquid to the flowing stream aforesaid, and recovering water solubles from the liquid.

1,377,364. GAME-BOARD ATTACHMENT. JAMES J. QUINN, Chester, Pa. Filed June 9, 1920. Serial No. 387,651. 6 Claims. (Cl. 46—61.)



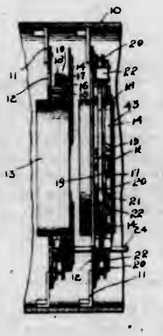
1. In a device of the class described, a game board, pockets in the game board arranged similar to those of the conventional pool table, an arm rotatably mounted on the game board, means for rotating the arm through a complete circle, and a ball adapted to be selectively placed in relation to the arm, whereby the ball may be driven into a selected pocket.

1,377,365. STRAW-STACK FORMER. EDSON A. ROACH, Bordulac, N. D. Filed May 20, 1918. Serial No. 235,533. 29 Claims. (Cl. 214—9.)



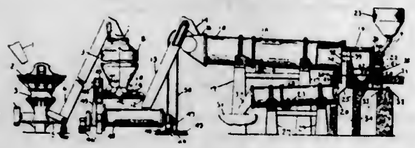
1. In a straw stack forming apparatus, the combination of the traveling straw receptacle, having at the bottom straw supporting and delivering devices, an air duct former normally situated above the said supporting devices and movable vertically independently thereof.

1,377,366. BETWEEN-THE-LENS PHOTOGRAPHIC SHUTTER. GEORGE F. ROSE, Hyndsville, N. Y. Filed Jan. 2, 1920. Serial No. 348,067. 5 Claims. (Cl. 95—63.)



1. In a camera shutter, the combination of a support having a focal opening, shutter leaves pivotally mounted on said support to either side of said opening and alternately coöperable to open and close the focal opening, master rings operatively connected with said shutter leaves, levers connected to said master rings respectively, and cam actuated means for operating said levers, substantially as set forth.

1,377,367. LIME-BURNING PROCESS. JOHN C. SCHAFFER, Tiffin, Ohio. Filed Jan. 19, 1917. Serial No. 143,207. 10 Claims. (Cl. 222—4.)

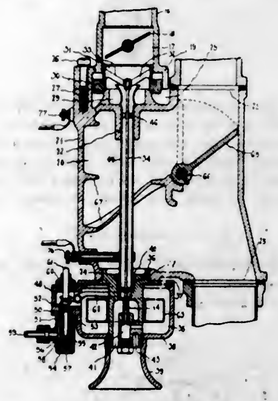


1. In a heat treatment device embodying a rotary kiln provided with a material supply end, a remote discharge end, and a cooler for the material discharged from the kiln, the combination of a furnace having a combustion chamber outside the kiln, said furnace being by-passed by said discharge to the cooler from the kiln, a grate for the furnace, and controllable steam supply means below the grate for humidifying the heating action of the furnace in extending a tempered combustion region from the furnace into the kiln.

1,377,368. IMPRESSION-PAPER. SOPHIA E. SCHUER, Warren, Mich. Filed Apr. 21, 1919. Serial No. 291,568. 2 Claims. (Cl. 91—68.)

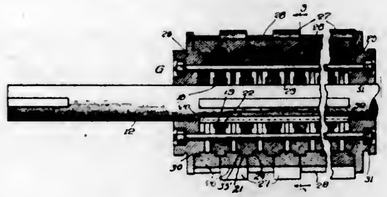
1. An impression paper comprising a carrying sheet coated with a composition of soft soap and soft coal soot.

1,377,369. HYDROCARBON-MOTOR. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 10, 1917. Serial No. 206,442. 15 Claims. (Cl. 123—122.)



1. In a device of the class described, a heating chamber having an inlet and an outlet opening; a conduit extending through said heating chamber; an adjustable damper located within said heating chamber and adapted to cause varying portions of a heating medium entering said chamber through said inlet opening to flow past said conduit; means for supplying atomized liquid fuel to one end of said conduit; a mixing chamber at the other end of and into which said conduit discharges; an air inlet port leading into said mixing chamber; and a valve for controlling said air inlet port.

1,377,370. ROCK-CRUSHER ROLL. WILLIAM G. STEVENSON, Chicago, Ill. Filed Jan. 10, 1920. Serial No. 350,598. 10 Claims. (Cl. 83—12.)



8. A roll structure for rock crushing machines, comprising a shaft, a row of core members on said shaft, driving connection between said shaft and core members, a row of crusher members surrounding said core members and alternating therewith, and detachable driving connection between said core members and crusher members.

1,377,371. CHAIN. SAMUEL V. TENCH, Wilkes-Barre, Pa. Filed Nov. 19, 1919. Serial No. 339,030. 9 Claims. (Cl. 74—32.)



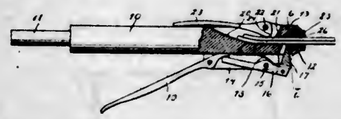
2. In a chain, the combination of a link having a circular eye at one end; a bushing rotatably and removably fitted in the eye; the bushing having a polygonal opening therethrough; a sectional link including a pair of side members, the ends of which are adapted to embrace the end of the first-named link, the ends of the side members being slotted, one end of each slot being enlarged; and a key having a longitudinally-extending spline, insertible through the enlarged portions of the slots and through the polygonal opening in the bushing, the key provided near its ends with diametrically opposed, transversely extending grooves, and slidable into the reduced portions of the slots, the walls of which side members adjacent the reduced portions of the slots are adapted to enter the transverse grooves to lock the key against endwise displacement.

1,377,372. MACHINE FOR CASTING METALS. RALPH WILLMETT THOMPSON, Leith, Scotland. Filed Dec. 29, 1919. Serial No. 347,913. 1 Claim. (Cl. 22—65.)



A centrifugal metal casting machine, comprising a hollow rotatable member, an airtight gland at one end of said member, a tank supported above said member and provided with a valve-controlled opening in its bottom, a nozzle communicating with said opening and passing through said gland into communication with said rotatable member, a hollow shaft mounted for rotation at the opposite end of said rotatable member, said shaft and rotatable member having means for securing them together with their interior walls in concentric relation, means carried by said shaft for imparting rotation thereto, and means in communication with the free end of the shaft for creating a vacuum in said shaft and hollow member.

1,377,373. WIRE-TWISTER. JAMES W. URIE, Carson City, Mich., assignor of one-half to A. B. Goodwin, Carson City, Mich. Filed Apr. 14, 1920. Serial No. 373,815. 3 Claims. (Cl. 140—119.)

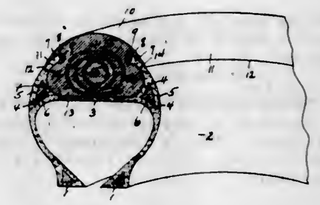


1. A device of the character described comprising a body formed at one end for engagement within a drill chuck, said body being provided at its other end with a circular hole and a transverse recess intersecting the hole, said body being formed in one side with a longitudinal recess communicating with said hole, a lever pivoted within said longitudinal recess and having a cam head coöperating with the bottom of the longitudinal recess whereby to serve as a clamp, a movable cutting blade extending into said transverse recess, and a lever pivoted at one side of the body and connected with said blade.

1,377,374. MANGANESE-MAGNESIUM ALLOY AND METHOD OF MAKING SAME. WILLIAM R. VEAZEY, Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 24, 1918. Serial No. 246,614. 10 Claims. (Cl. 75—1.)

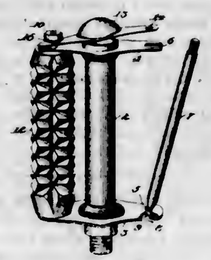
1. As a new product, an alloy of manganese with magnesium in which the magnesium largely predominates.

1,377,375. COMBINATION PNEUMATIC CASING. JOHN VELCIO, Youngstown, Ohio, assignor of one-third to Charles A. Harpman, Youngstown, Ohio. Filed Feb. 24, 1921. Serial No. 447,588. 1 Claim. (Cl. 152—10.)



In a device of the class described, a casing provided with two outer walls, a support web, bifurcated ends on said web securely attached to said side walls, a filler secured within these bifurcated ends and outer wall, an upper endge of side walls, a channel in sides of tread, a wing portion overlapping said upper edge, a metallic bond incased in said upper edge of casing, substantially as described for the purpose set forth.

1,377,376. PEDAL. FREDERICK P. WESTON and JAMES H. GRAHAM, Torrington, Conn., assignors to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Jan. 22, 1919. Serial No. 272,468. 9 Claims. (Cl. 208—70.)

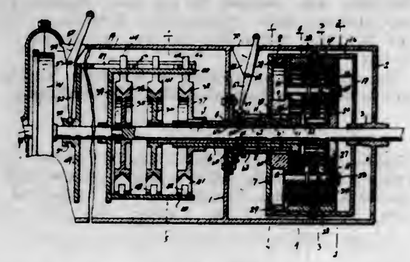


7. In a pedal, the combination of a hub having end pieces, a plurality of pintles, a foot engaging member carried by each pintle, said pintles having a pivotal connection to one of said end pieces and means for holding said pintles in engagement with the other end piece.

1,377,377. TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Feb. 24, 1920. Serial No. 360,956. 9 Claims. (Cl. 74—34.)

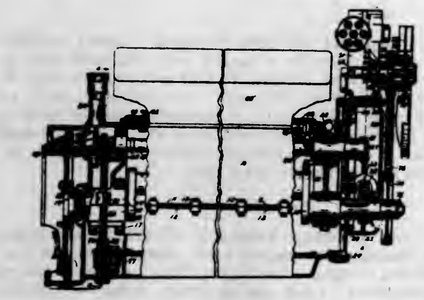
1. A transmission device including a driving shaft, a driven shaft, a plurality of sets of transmission mechanism adapted to operatively connect the driving and the driven shafts, a portion of one set of transmission mechanism being capable of sliding movement, means for imparting sliding movement thereto, a reversing gear car-

ried by the driven shaft and with which said movable portion of the transmission set engages when said portion



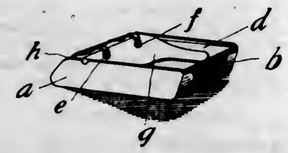
is moved in one direction, and means for connecting the driving shaft to any one of the several sets of transmission mechanism.

1,377,378. HYDROCARBON-MOTOR. D'ORSAY MCCALL WHITE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 24, 1916. Serial No. 133,184. 14 Claims. (Cl. 123—195.)



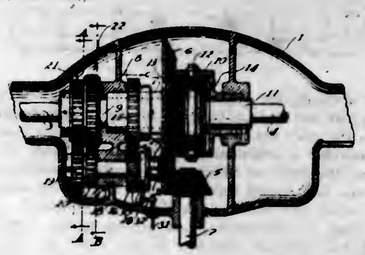
1. In a hydrocarbon motor, the combination with a crank case, a crank shaft mounted therein, and gearing arranged on said shaft adjacent one of its ends, of a detachable end cover for said gearing, a shaft mounted in said cover transversely of said first shaft, a removable pulley mounted on said crank shaft outside of said cover, driving connections between said crank shaft and said transverse shaft and said pulley, respectively, an auxiliary device also supported on said cover, and means for driving said device from said pulley.

1,377,379. BOX OR CONTAINER FOR RAZOR-BLADES AND THE LIKE. WILLIAM HENRY WILLIAMS, Erdington, Birmingham, England. Filed June 3, 1919. Serial No. 301,416. 2 Claims. (Cl. 206—16.)



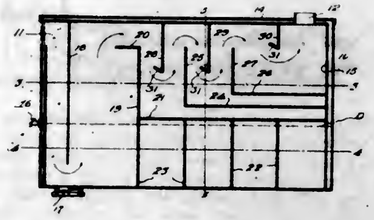
1. A container for razor blades and the like, comprising in combination a box portion with inclined ends, the bottom, side and ends of said box being pressed from a metal blank, a lid to said box, and means on one end piece of said box for hinging said lid, said means comprising extended finger portions engaging holes in said lid and exerting spring pressure on said lid.

1,377,380. DIFFERENTIAL GEARING. IRVING C. WOODWARD, Chicago, Ill., assignor to Woodward Differential Gear Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 22, 1916. Serial No. 138,347. 3 Claims. (Cl. 74—99.)



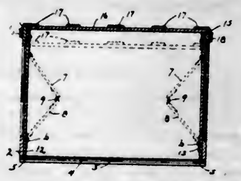
1. A device of the class described, comprising differential gearing and a pair of driven shafts connected thereby, means for driving said gearing, a pair of clutches mounted on one of said shafts, and means whereby said clutches are respectively driven faster and slower than the shaft upon which they are mounted, each of said clutches being arranged to grip the shaft and drive it when the speed of the shaft is approximately the same as the respective clutch.

1,377,381. AIR-WASHING DEVICE. CHARLES L. WORRALL, Pasadena, Calif. Filed June 11, 1920. Serial No. 388,260. 3 Claims. (Cl. 183—24.)



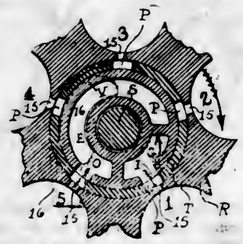
1. A device of the character described comprising a tank provided in one end with an air inlet and at its other end with an air outlet, said tank containing water, a vertical plate extending downwardly below the water level at the air inlet end of the tank, a plurality of spaced perforated horizontal plates within the tank, vertical plates at the ends of said horizontal plates toward the inlet end of the tank terminating in spaced relation to the top of the tank, and a plurality of plates depending from the top of the casing between said vertical plates.

1,377,382. CONTAINER, SHIPPING-CASE, CRATE, AND BOX. GEORGE S. WYMAN, Binghamton, N. Y., assignor to Nicholas Primel, Johnstown, Pa. Filed Sept. 26, 1919. Serial No. 326,568. 3 Claims. (Cl. 217—15.)



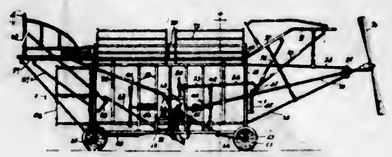
1. In a container shipping case, box or crate as described, upper and lower frame members foldable, sectional inwardly foldable ends, having hinged connection with the frame members and to each other, sides having hinged connection with lower frame members and bottom, a bottom securely fastened by groove into the lower frame member, said groove to be of depth to allow for expansion and contraction, and supported by cross pieces between said bottom and a series of longitudinal strips fastened to bottom of said lower frame member, a waterproof top or cover, reinforced by cleats, and mounted flush with said frame members, and having hinged connection with said frame members, fastening means to fasten the top to said frame member, and means mounted thereon for holding the frame members together, when the device is in a folded or collapsed position.

1,377,383. ROTARY INTERNAL-COMBUSTION ENGINE. JOSEPH H. BAIA, Haddonfield, N. J. Filed Jan. 18, 1919. Serial No. 271,777. 5 Claims. (Cl. 123—43.)



1. In a rotary internal combustion engine in combination: a shaft, a cylinder bearing rotor revoluble on the shaft, a recess in the rotor concentric with said shaft, ports common to the recess and cylinders of the rotor, a stationary cylinder encircling and spaced from the shaft and bearing intake and exhaust chambers and having ports connected therewith, and a timed sleeve intermediate the recess walls and the chambered cylinder, ports therein one for each cylinder of the rotor and common to those of the recess and of the chambered cylinder.

1,377,384. BIRD-AEROPLANE. JOSEPH BALON, Staunton, Ill. Filed Aug. 19, 1920. Serial No. 404,712. 2 Claims. (Cl. 244—29.)



1. In an aeroplane, a body frame, a supporting tail structure connected with the plane and means for adjustably altering the amount of supporting surface afforded by said tail structure embodying a pair of spaced rearwardly diverging supporting surfaces pivotally connected at their forward ends to said frame and a second pair of pivotally connected supporting surfaces having their free ends pivotally connected with the adjacent edges of the supporting surfaces of the first named pair, and means for moving the rear ends of the first named pair toward a common center whereby said pivotal connection of the second named pair is shifted upwardly.

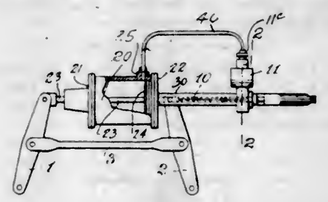
1,377,385. RADIATOR-TUBING. OTTO BARK, Chicago, Ill., assignor, by direct and mesne assignments, to Leakproof Radiator Co., Chicago, Ill., a Corporation. Filed Oct. 8, 1919. Serial No. 329,394. 5 Claims. (Cl. 29—180.)

1. An article of manufacture of the class described comprising a tube of narrow oblong cross section made of thin flexible sheet-metal, the edges of which are joined



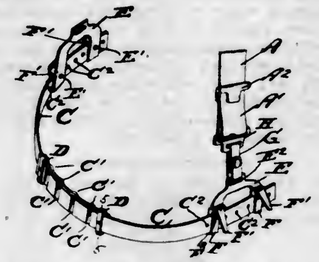
by the usual interlocking seam, and stiffening wires embedded in said tube along the lateral edges thereof.

1,377,386. AUTOMATIC SLACK-ADJUSTER FOR RAILWAY-BRAKES. KNUT ANTON BECKMAN, Stockholm, Sweden. Original application filed Dec. 28, 1914, Serial No. 879,337. Divided and this application filed Mar. 23, 1918. Serial No. 224,269. 2 Claims. (Cl. 188—203.)



1. In an automatic slack adjuster the combination of a brake setting mechanism, a slack adjuster connected therewith, and an auxiliary yielding device connected with the brake setting mechanism and adapted to take up the excess motion of parts of said mechanism until the frictional resistance of other parts arrests this movement, said auxiliary yielding device comprising a pneumatic motor for operating said slack adjuster, and a pipe connecting said pneumatic motor with the brake cylinder adjacent to the rear end thereof and to the starting point of its piston.

1,377,387. COMBINED SHOULDER-BRACE AND TROUSERS-SUPPORTER. MATHIAS BERRES, Hamtramck, Mich. Filed Sept. 29, 1920. Serial No. 413,495. 2 Claims. (Cl. 241—17.)

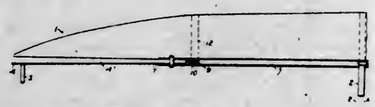


1. In a device of the character described, a strap of suitable length to adapt it to cross the back of the wearer beneath the arms pass over each shoulder to the back and thence downwardly overlapping itself with its ends extending to the sides of the wearer adjacent to the trouser waist band, a pair of extensible overlapping metallic members adapted to be detachably secured to the waist band of the trousers, means detachable and adjustably secured to said last named members at each side of the wearer, and detachable means for securing the ends of said strap to the respective last named means.

1,377,388. AUTOMOBILE-TOP CONVERTER. ROY W. BIDDLECOM and LOUIS B. GIRARD, Los Angeles, Calif. Filed Mar. 11, 1919. Serial No. 281,960. 2 Claims. (Cl. 296—116.)

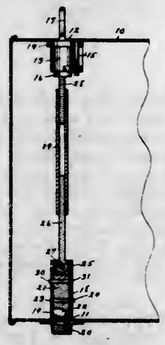
1. An automobile top converter comprising a front frame member having rearward extensions, an extension bar extending rearwardly from each rearward extension of

said front frame member, clamping means for securing said extension bar on said rearward extension, clamping means at the rear ends of each extension bar for securing same to an upright supporting member, and clamping means on the front frame member for securing the same to the front upright supporting members, said last named



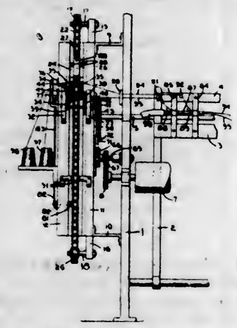
clamping means being formed as a resilient U-member adapted to embrace the front upright supporting member and provided with a clamp screw for tightening the same, and with an extension projecting away from the front frame member and having a head serving as a button for attachment of a curtain.

1,377,389. LOCKING-VALVE FOR FUEL-TANKS. ALONZO C. BLACK and JOSEPH D. CLARK, Des Moines, Iowa. Filed May 26, 1919. Serial No. 299,734. 3 Claims. (Cl. 251—7.)



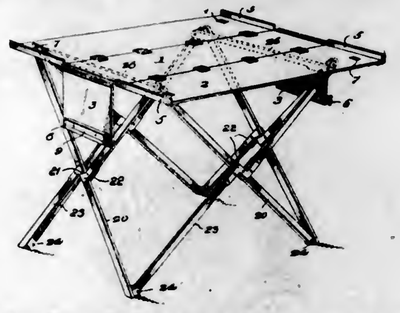
1. The combination with a tank having an outlet, of a valve casing inclosing said outlet and having a lateral inlet opening, a rotary valve mounted in said casing and having a port adapted to form communication at times between said inlet opening and the outlet, a key-controlled lock secured to said tank and having a rotary member connected with said valve, said casing being formed with a semi-circumferential slot, and a pin in said valve extending through said slot and adapted to provide a stop means to limit rotary movement of said valve.

1,377,390. LOOM. JOHN C. BROOKS, Paterson, N. J. Filed Feb. 28, 1920. Serial No. 361,967. 8 Claims. (Cl. 139—18.)



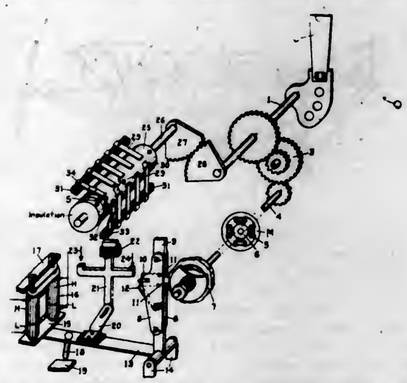
8. In a loom, the combination with a lay, of means for drawing off a length of filling from a source of supply, and then releasing said length from the drawing-off means, a filling-delivery nozzle carried by the lay and through which the drawn off length of weft thread is delivered into a warp shed, and means actuated by the drawing-off device to grip the weft thread between said drawing-off device and the source of supply after the length has been drawn off.

1,377,391. CAMP KIT. WILLIAM J. BURNS, Detroit, Mich. Filed June 21, 1920. Serial No. 390,634. 1 Claim. (Cl. 190—12.)



A camp kit comprising a box having a bottom wall and hinged end and side walls adapted to be placed in the same plane as the bottom wall to form a table top, angle bars carried by the ends of said side walls for bracing said end walls when in box formation and providing ledges when in table top formation, means carried by the end walls of the box to maintain all of said walls in box formation, a lid for the box adapted to coöperate with said means in maintaining the box formation, collapsible means carried by the inner wall of said lid and normally housed in the box and adapted to be distended to support said lid so that it may be utilized as a bench, and legs adapted to support said box when used as a table top.

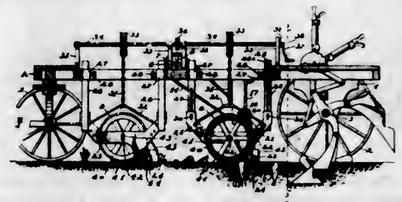
1,377,392. ELECTRICALLY-OPERATED SEMAPHORE-SIGNAL. CHARLES S. BUSHNELL, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 1, 1920. Serial No. 407,301. 9 Claims. (Cl. 246—46.)



1. In a semaphore signal operating mechanism, the combination with a hold-clear device having a pickup circuit and a holding circuit, of means operated in accordance with the direction of movement of the semaphore for controlling said circuits.

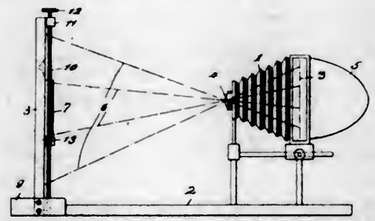
1,377,393. BEET-HARVESTER. ALBERT BOZEK, Gebo, Wyo. Filed Feb. 27, 1919. Serial No. 279,484. 3 Claims. (Cl. 55—107.)

1. A beet harvester including a main frame, a vertically adjustable cutter frame mounted upon the main frame, a horizontally disposed cylindrical roller journaled upon the cutter frame and mounted to have a limited up and down movement independent of the cutter frame, said roller being arranged to travel over the beets, and sup-



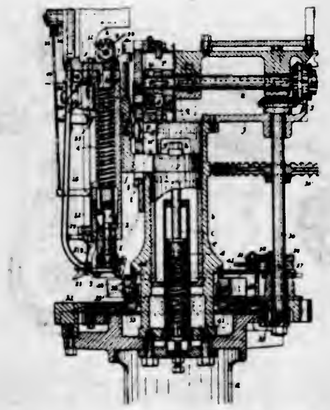
port the frame at the proper elevation with respect to the beets, a horizontally disposed reciprocating cutter blade mounted upon the cutter frame back of the roller, and means for actuating the cutter as the main frame is advanced.

1,377,394. ENLARGING-EASEL. LAWRENCE C. BYCK, Perth Amboy, N. J. Filed July 12, 1919. Serial No. 310,468. 14 Claims. (Cl. 88—24.)



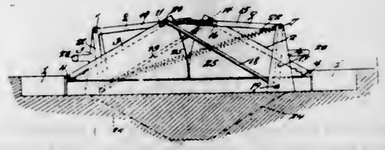
1. A printing frame support including an upright back, a bar extending across the face of the back, means for adjusting the bar vertically and for tilting it in a vertical plane, a slide adjustable longitudinally on the bar and means on the slide for detachably engaging and positioning a printing frame.

1,377,395. BOTTLE-SEALING MACHINE. AMOS CALLESON, Brooklyn, N. Y., assignor to Adriance Machine Works, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,192. 8 Claims. (Cl. 226—84.)



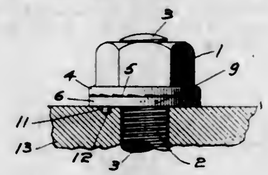
1. In combination, with a frame and means, movable in a bent course, or exerting pressure on the containers, of means for moving said pressure-exerting means in said course including motion-transmitting members each movable in a plane and substantially rectilinearly, one in the frame and the other in, and across the path of, the first-named member and having said pressure-exerting means connected therewith, and means to move each of said members in its rectilinear path.

1,377,396. FOLDING GATE. WILLIAM T. CASTLEBERRY, Artesia, N. Mex. Filed July 28, 1920. Serial No. 399,470. 8 Claims. (Cl. 39—6.)



5. In a vehicle actuated road bed gate, the combination with a platform adapted to be sunk in a road bed in a position through a gate opening, the ground upon the opposite longitudinal edges of the platform being cut away to form channels, of collapsible gate sections hingedly mounted upon the platform and having side flanges, which extend down on opposite sides of the platform and adapted to enter said channels formed in the ground, supports mounted upon the platform, bell crank levers pivotally mounted upon said supports, and having certain of their arms connected to the adjacent ends of said gate sections, rods connecting the other arms of the bell crank levers and the ends of the respective opposite gate sections, whereby as one gate section is depressed by the weight of the vehicle thereon, the other gate section is automatically depressed, an additional support on the platform, spring means connecting the additional support and one of the arms of one of the bell crank levers for returning the gate sections to their normal positions, and abutment means to be engaged by certain of the arms of the bell crank levers for limiting the gate sections in their depressed or open positions.

1,377,397. LOCK-NUT. ROY L. CHANCE, San Francisco, Calif. Filed Mar. 31, 1919. Serial No. 286,547. 2 Claims. (Cl. 151—39.)



1. In a lock nut, the combination with the threaded end of a bolt of a nut screwed thereon having an annular ratchet formed on the lower surface thereof; a washer arranged on the bolt and below the nut and having an L-shaped recess therein, said recess opening from the side of said washer, said washer being adapted to engage an apertured member held by the bolt; and a pawl pivotally mounted within the recess and arranged to engage the ratchet on the nut to permit a movement of the said washer relatively to the nut, in one direction only.

1,377,398. FUSE-CARTRIDGE. GEORGE A. CONRAD, Detroit, Mich. Filed Nov. 18, 1918. Serial No. 262,996. 5 Claims. (Cl. 200—131.)

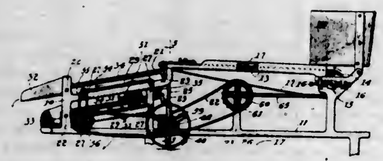
4. A fuse cartridge comprising an insulating member divided longitudinally, a fuse strip located between said

divided portions with its ends extending beyond the respective ends of the latter, and means for binding said divided portions together to form a single unit and to form



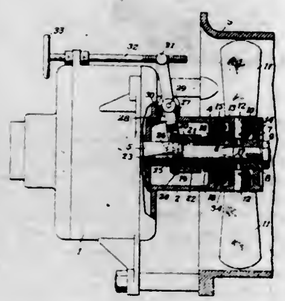
terminals for the fuse strip, consisting of a member formed of sheet metal shaped to form an annular band surrounding the end of the insulating member with a strip bridging said band across the end of said member.

1,377,399. GRADING AND SORTING APPARATUS. JAMES CONTE, Des Plaines, Ill. Filed June 9, 1920. Serial No. 387,550. 9 Claims. (Cl. 130—32.)



1. In a grading machine a movable grading element, a vibrator member having coactive relation with said grading element, a rotatable toothed wheel coacting with said vibrator member, and means for adjusting the latitude of movement of the vibrator member.

1,377,400. BLOWER. FRANS H. C. COPPUS, Worcester, Mass., assignor to Coppus Engineering and Equipment Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1915. Serial No. 21,907. 3 Claims. (Cl. 230—11.)



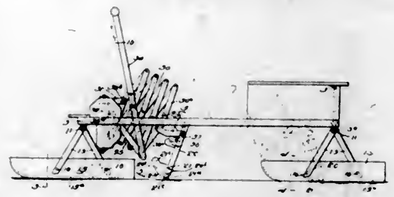
1. In an apparatus of the character set forth, a revoluble fan, a driving shaft for said fan, a sleeve attached to the end of said shaft, a radial flange carried by said sleeve, a rim carried by said flange concentric with said sleeve, and alined journal bearings for the blades of said fan in said sleeve and in said concentric rim respectively.

1,377,401. QUICKLIME PRODUCTION. WALLER CROW and JOHN C. SCHAFFER, Tiffin, Ohio. Filed Nov. 13, 1917. Serial No. 201,821. 11 Claims. (Cl. 202—4.)



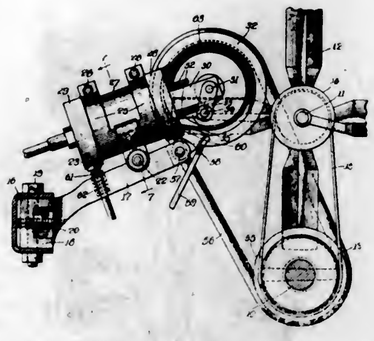
9. The method of de-carbonating a limestone, including mingling the limestone with a lime hydrate, and progressing the mixture in a gradually increasing heat for effecting porous nodulization thereof.

1,377,402. OCCUPANT-PROPELLED SLIDING VEHICLE. CONRAD DAHL, Chicago, Ill. Filed July 14, 1920. Serial No. 396,201. 8 Claims. (Cl. 208—158.)



1. In combination with a vehicle adapted to be propelled by rearward thrust of the ground-engaging means, a propeller pivotally carried in the vehicle frame and inclined down forwardly from its pivot to its ground engagement, structure on which the propeller pivot is supported for backward and forward movement bodily on the vehicle without reversal of inclination during said backward movement, and means for giving such pivot support such movement.

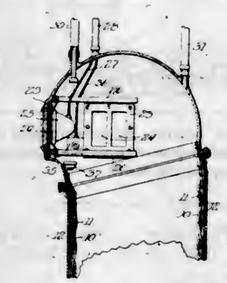
1,377,403. POWER-OPERATED AIR-PUMP FOR AUTOMOBILES. ERNEST DAVID, Maywood, Ill., assignor of one-third to Herman Kraus, Chicago, Ill. Filed Apr. 8, 1920. Serial No. 372,143. 5 Claims. (Cl. 230—27.)



1. In an air pump for automobiles, the combination of a bracket, means for attaching said bracket to a side sill of the chassis frame, a saddle pivotally mounted on said bracket, a pump cylinder removably mounted in said saddle and having a cylinder head formed with a rigid rearward extension, a shaft journaled in said extension, a

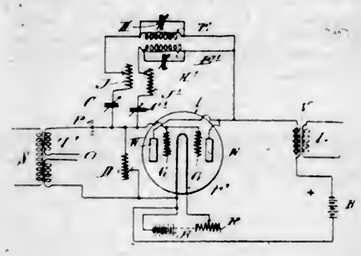
crank on one end of said shaft connected to the piston rod of the pump, a pulley fast on the other end of said shaft, a driving pulley fast on the engine shaft, a belt connecting said pulleys, and manually operated means for tightening and slackening said belt.

1,377,404. SHIP-SALVAGING APPARATUS. HENRY D. DEAM, Benton Harbor, Mich. Filed Aug. 31, 1918. Serial No. 252,199. 5 Claims. (Cl. 61—70.)



1. A diving suit comprising a framework having rigid sections with flexible joints, and a flexible, waterproof fabric surrounding said framework, said fabric comprising a plurality of sheets of rubber alternating with sheets of duck.

1,377,405. AUDION-CIRCUIT. LEE DE FOREST, New York, N. Y., assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y., a Corporation of Delaware. Original application filed Apr. 9, 1915, Serial No. 20,173. Divided and this application filed Apr. 27, 1920. Serial No. 377,051. 17 Claims. (Cl. 179—171.)



1. An electric relay comprising an incoming circuit, an outgoing circuit including a gaseous conductor, forming a part of each of said circuits, and a conductive leakage path connected to two points in said gaseous conductor.

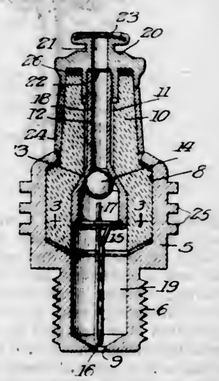
11. The combination with an evacuated vessel having associated therewith a hot and two cold electrodes, each of said cold electrodes being located at a relatively different distance from said hot electrode, electrical circuits connecting said electrodes, and a high resistance conductive leakage path connected to two of said electrodes.

1,377,406. ROTARY CASTING. DIMITRI SENSAUD DE LAVAUD, New York, N. Y. Filed Aug. 27, 1920. Serial No. 406,440. 5 Claims. (Cl. 22—79.)



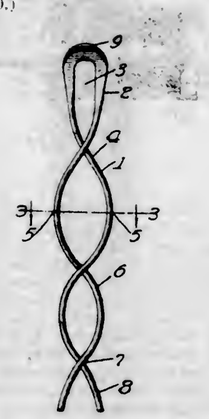
1. In a molten metal distributer for rotary molds, the combination of a multi-part lining for the distributer, including a plurality of substantially U-shaped members arranged end to end in a substantially straight line along a length of the distributer, thereby to provide a chamber for holding the molten metal and located within and over the line of members, and means for resiliently holding such members in end-to-end contact.

1,377,407. SPARK-PLUG. PAUL C. DEPEW, Chicago, Ill. Filed May 9, 1919. Serial No. 295,832. 5 Claims. (Cl. 123—169.)



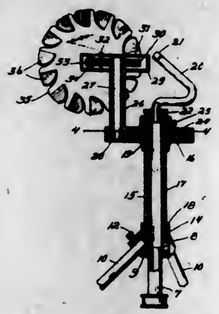
1. A spark plug having a passageway therethrough, a gas pressure actuated valve in said passageway, and yielding means mounted on said plug, said yielding means having an opening therethrough registering with said passageway, said opening being somewhat smaller than the adjacent portions of the pasasgeway, said yielding means being adapted to deaden the sound of the air as it passes through said passageway.

1,377,408. HAIRPIN. CHARLES ALBERT DIES, Chicago, Ill. Filed June 23, 1916. Serial No. 105,472. 2 Claims. (Cl. 132—50.)



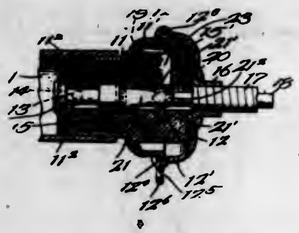
1. A hair-pin comprising a U-shaped member having arms of substantially uniform length, each curved helically about a common central axis, said arms gradually approaching each other to a point adjacent their free ends and thereafter diverging slightly to their extremities, said member being flattened at the closed end of said pin parallel to the common plane of said arms and having a laterally projecting bead on both sides of the pin at the outer margin thereof.

1,377,409. LAWN-SPRINKLER. JOSEPH J. DONEGAN, Kansas City, Mo. Filed Mar. 2, 1920. Serial No. 362,824. 2 Claims. (Cl. 299—68.)



1. A lawn sprinkler comprising a vertical fixed tubular bearing, a sleeve rotating within said bearing and provided with a water connection at its lower end and a nozzle at its upper end, a stationary gear fixed to the upper end of said bearing, a water wheel provided with a supporting structure carried by said sleeve for maintaining said wheel in position to be actuated by the jet from said nozzle, said structure being formed with a housing portion for inclosing said gear, a vertical shaft journaled in said supporting structure and provided with gear connections to said wheel, and a gear secured to the lower end of said shaft within said housing and in meshed relation with said fixed gear.

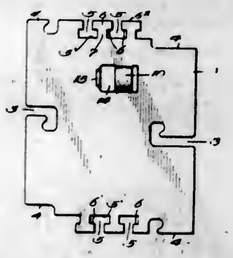
1,377,410. CIRCUIT-EXTENDING PLUG. HARRY A. DOUGLAS, Bronson, Mich., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich., a Corporation of Michigan. Filed July 23, 1917. Serial No. 182,197. 7 Claims. (Cl. 173—328.)



5. A circuit continuing device including a plug; a contact carrier having a bore and a plug receiving opening disposed laterally and communicating with said bore which is also open at its forward end to receive the plug; and a spring jack upon the carrier and positioned to be engageable by the plug when inserted into said bore longitudinally or laterally thereof, said spring jack including a spring having formations upon its side and at its ends, one of these formations being adapted to direct the conducting plug into engagement with the jack when such plug is inserted transversely of the carrier and the other of these formations being adapted to direct the conducting plug into engagement with the jack when such plug is inserted into the carrier longitudinally of the bore.

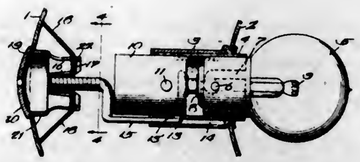
1,377,411. CIRCUIT-CONNECTOR. HARRY A. DOUGLAS, Bronson, Mich., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich., a Corporation of Michigan. Filed Oct. 24, 1917. Serial No. 198,339. 6 Claims. (Cl. 29—187.)

1. A shell formed of a curled sheet having each of two opposite edge portions formed with alternated similarly shaped equally dimensioned T-shaped mortises and tenons, the mortises in each edge portion receiving the tenons



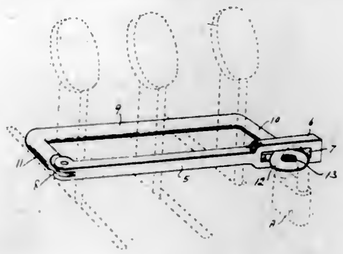
upon the other edge portion, the longitudinal edges of the heads of the tenons and mortises being substantially parallel with the axis of the shell.

1,377,412. LAMP. HARRY A. DOUGLAS, Bronson, Mich. Filed Mar. 13, 1919. Serial No. 282,451. 4 Claims. (Cl. 240—44.)



1. A lamp structure including an incandescent lamp; a shell carrying the lamp at one of its ends; a contact carrying plug at the other end of the shell for including the lamp in circuit; a holder receiving the shell and along which the shell is movable, said holder having a channel extending longitudinally of the holder, this channel being overhung by a portion upon the holder; a pin slidably entering the shell and projecting into said channel; and a stem extending rearwardly through said channel and carrying said pin.

1,377,413. LEVER-LOCKING DEVICE. CLARENCE WILBERT DWELLE, Sandusky, Ohio. Filed Oct. 21, 1919. Serial No. 332,238. 1 Claim. (Cl. 70—126.)



In combination with an automobile control embodying a brake pedal, a reverse pedal, and a speed changing pedal wherein the same are substantially transversely alined when the brake pedal is in inoperative position, the reverse pedal in operative position and the speed changing pedal in neutral position, an elongated rigid member substantially contacting with the front edges of said pedals when in such position, the extremities of such rigid member being continued by lateral extensions of a length to terminate beyond the rear edges of said pedals, a rigid straight member pivotally engaged at one end portion with the free end portion of one of the angular extensions, the opposite end portion of the second rigid member and the free end portion of the second angular extension being provided with coacting means whereby said second rigid straight member may be locked in position to substantially contact with the rear edges of the pedals.

1,377,414. AEROPLANE. ROBERT GILBERT ECOB, New York, N. Y. Filed Sept. 25, 1918. Serial No. 255,698. 5 Claims. (Cl. 244—29.)



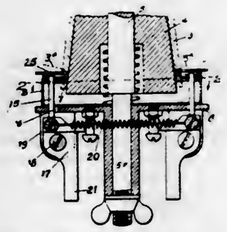
1. In a flying machine, a frame, main supporting planes extending transversely of the frame and arranged in series longitudinally of the frame and comprising an intermediate supporting plane and forwardly and rearwardly arranged supporting planes arranged to permit of changing the relative elevation of the forward and rearward edges thereof to adjust the angle of incidence, said forward and rearward supporting planes having a combined supporting surface of greater area than that of the intermediate plane, means operative synchronously to adjust the angle of incidence of the forward and rearward planes in reverse relation and said intermediate plane being adapted for adjustment of its angle of incidence in reverse relation on the opposite sides of the central longitudinal axis of the machine to control the lateral tilting thereof, substantially as described.

1,377,415. HOLDER FOR CHECKS AND VOUCHERS. RICHARD H. GAY, Washington, D. C. Filed Nov. 30, 1920. Serial No. 427,446. 2 Claims. (Cl. 24—66.)



1. In a holder for checks and vouchers, the combination of a base, a holder plate hingedly attached to the base, a spring holding the plate in its normal inclined position relative to the base, and a wire element pivotally mounted on the base at a position a considerable distance inward from the free end of the hinged plate and extending rearwardly over its free end and bent directly forward parallel with the alined plate, whereby the end of the inclined plate will bear against said forwardly bent portion when the plate is released after being depressed.

1,377,416. COP-MOUNTING. WILLIAM A. HOUCK, Reading, Pa. Filed Sept. 21, 1920. Serial No. 411,746. 5 Claims. (Cl. 242—130.)



3. In combination with a base plate carrying a central cop support and a cup encircling the lower portion of said support; thread-supporting segment bars mounted in said cup, operating levers for said bars pivoted below said plate and having bar-engaging pivot pins, and spring means for normally pressing said bars into contact with the lower portion of a mounted cop.

1,377,417. ATTACHMENT FOR STALK-CUTTERS. DOUGLAS KINZER and ALDEN KINZER, Ottawa, Ill. Filed Aug. 31, 1920. Serial No. 407,201. 2 Claims. (Cl. 155—52.)



1. A seat support for stalk cutters including a post, means engaging said post with a permanent part of the cutter frame and permitting vertical but not rotatable movement of the post, and a spring pressed seat mounted upon the post.

1,377,418. ROD-COUPLING. FERDINAND W. KROGH, San Francisco, Calif.; CARL A. KROGH and OSCAR POULSEN, executors of said Ferdinand W. Krogh, deceased. Original application filed Jan. 2, 1915, Serial No. 124. Divided and this application filed Jan. 21, 1918. Serial No. 212,861. 1 Claim. (Cl. 287—108.)



In combination, a rod and a coupling, said coupling comprising a sleeve made in one piece of material adapted to closely fit the abutting ends of the rod, tapped holes in said sleeve arranged in duplicate oblique relation, corresponding holes in said rod, screws in said tapped holes of the sleeve engaging the holes in the rod, each of said screws having polygonal holes at its outer end for receiving means for driving said screws into position.

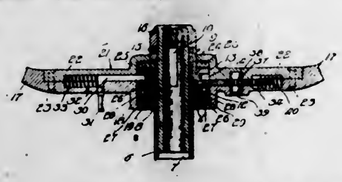
1,377,419. IGNITION DEVICE. JOHN A. LANNERT, Cleveland, Ohio. Filed Aug. 9, 1920. Serial No. 402,344. 4 Claims. (Cl. 175—183.)

1. In a device of the character described, the combination of a base provided with a series of spaced apertures adapted to fit over the connection posts of a coil box,

connections mounted on the rear of said base and adapted to contact with the connecting posts, said connections having pins extending through said base, and spark gap plates mounted on the front of said base and having apertures adapted to receive said pins to form the gap.

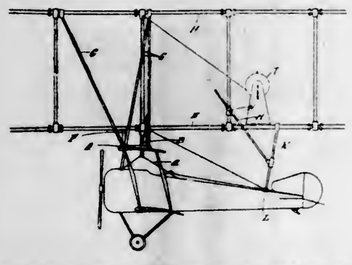


1,377,420. STEERING-WHEEL. LEROY C. LAZEAR, Chicago, Ill. Filed Oct. 30, 1916. Serial No. 128,605. 10 Claims. (Cl. 70—129.)



7. Steering apparatus embodying, in combination, a shaft, a shiftable wheel idly mounted on the shaft, interengageable clutch elements carried by the wheel and shaft arranged to interlock the wheel and shaft when the wheel is shifted to a definite position longitudinally of the shaft, tension means for normally holding the wheel in such locking position, and other means positively acting to prevent the wheel from shifting away from such locking position, substantially as described.

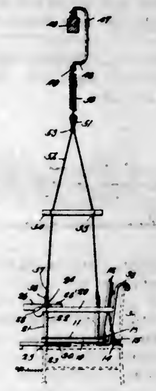
1,377,421. AIRCRAFT. IVO CECIL LITTLE, Barrow-in-Furness, and EDWIN EDWARD CROOK, Great Yarmouth, England. Filed Nov. 25, 1919. Serial No. 340,459. 8 Claims. (Cl. 244—2.)



1. For securing an aeroplane to an airship or other lighter-than-air craft, means for providing one-point suspension of the aeroplane from the aircraft, means for preventing the aeroplane moving relatively to the aircraft while suspended therefrom.

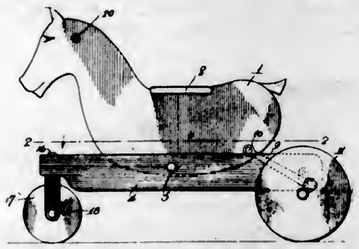
1,377,422. COMBINATION SWING AND HIGH CHAIR. LEONARD J. LOFFI, Fort Wayne, Ind., assignor of one-half to George Loffi, Garrett, Ind. Filed May 1, 1920. Serial No. 378,278. 2 Claims. (Cl. 155—68.)

1. A combination baby-jumper and high-chair comprising a seat; arms; rungs between the arms and the seat; securing devices connecting the arms and the seat, the rungs having grooves receiving the securing devices; a tray at the forward ends of the arms and mounted for opening and closing movement; a back hinged to the seat; a rearwardly projecting bracket carried by the seat and comprising side members extended upwardly and provided with apertures; an inverted U-shaped brace having outwardly extended portions pivoted in the apertures, the brace comprising upper and lower portions disposed at an angle to each other, the upper of said portions conforming to the back; a clamping device carried by the back



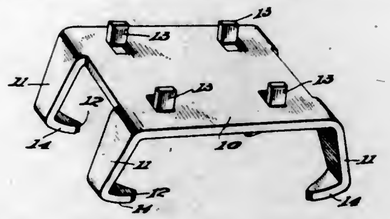
and engaging the brace, the clamping device including a part located within the brace; and a suspension means engaged with the securing device.

1,377,423. CHILD'S SKID ROCKING-HORSE. CHARLES WARD MAGNAT, Jr., Paterson, N. J. Filed Jan. 12, 1920. Serial No. 350,923. 2 Claims. (Cl. 208—42.)



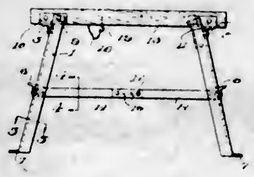
1. A toy comprising a frame having a pivoted body mounted thereon, a crank shaft journaled on the frame, means to drive the crank shaft from the said body, the ends of the said crank shaft being provided with tenons, wheels mounted on the tenons, the extreme terminals of the crank shaft being extended radially and secured to the inner surfaces of the said wheels.

1,377,424. RAIL-SECURING DEVICE. FRANK G. MILLIKEN, Enumclaw, Wash. Filed Oct. 6, 1919. Serial No. 328,631. 4 Claims. (Cl. 238—299.)



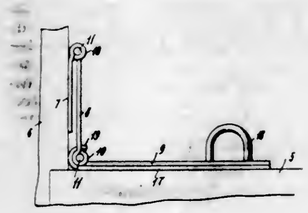
1. In a rail securing device, the combination of a flat body plate, having a plurality of upstanding rail attaching members formed thereon adapted to be clenched over the base of a rail, for securely attaching the rail to a body, and a plurality of prongs carried at opposite edges of said body plate and having arcuate inserting ends adapted to be driven into a cross tie.

1,377,425. BUILDER'S HORSE OR TRESTLE. JOHN MILNES, Jr., Port Richmond, N. Y. Filed Apr. 9, 1919. Serial No. 288,717. 4 Claims. (Cl. 304—5.)



1. In a builder's horse or trestle, the combination of substantially U-shaped saddle members, supporting legs pivotally connected to said saddle members, a wood beam disposed within said saddle members, and angle irons carried by said supporting legs and adapted for engagement against the under surfaces of said saddle members to limit the outward pivotal movement of the legs with respect to the saddle members.

1,377,426. HASP. GEORGE S. OLSON, Swift Current, Saskatchewan, Canada. Filed June 11, 1920. Serial No. 388,100. 8 Claims. (Cl. 292—281.)

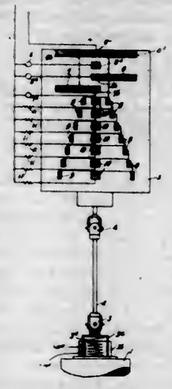


1. A device of the class described, comprising in combination, a hasp, and a pair of locking members adapted for either joint or separate engagement with the hasp.

8. A device of the class described, comprising in combination, a hasp comprising a pair of hinged sections, one section having an opening therein, and the other section having an opening therein contiguous to the connection between the sections, and a pair of locking members adapted for coöperation with the openings, one of said members adapted to overlap the hinged connection between the sections.

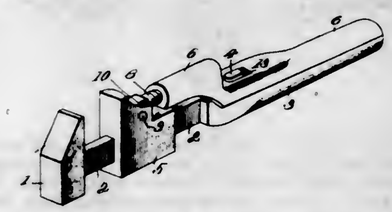
1,377,427. SIGNALING THE POSITION OF A SHIP'S HELM. RODOLPH STUART O'NEIL, London, England. Filed Feb. 11, 1920. Serial No. 357,890. 3 Claims. (Cl. 64—89.)

3. A connection for use between the rotatable contact maker of electric signaling apparatus and a ship's rudder post, comprising a rod, universal couplings at the ends of the rod, one for attachment to such contact maker, a slidable member attached to the other coupling, a bearing for attachment to the rudder post and in which said slidable member is mounted for sliding movement and for turning movement therewith, to permit axial movement between the contact maker and the rudder post, said bearing having longitudinal grooves in the interior of its side faces



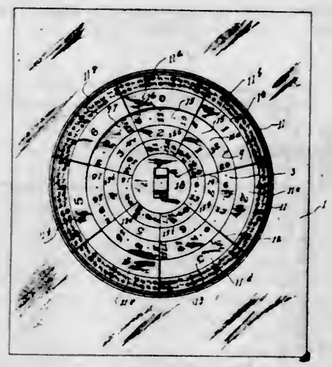
and said bearing having keys engaging said grooves, and a spring between said bearing and slidable member.

1,377,428. WRENCH. JAMES E. OWEN, Edgeley, N. D. Filed Mar. 8, 1920. Serial No. 364,150. 3 Claims. (Cl. 81—85.)



1. A wrench comprising a stationary jaw having a shank and an extension, a second jaw movable on said shank and provided with an adjustable extension pivotally connected solely to said second jaw and means on said extensions for producing a gripping action between said jaws while said extensions are forced together.

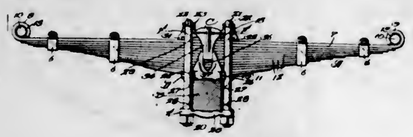
1,377,429. PERPETUAL CALENDAR. ROBERT PENTLAND, Jacksonville, Fla. Filed Nov. 15, 1920. Serial No. 424,208. 4 Claims. (Cl. 40—113.)



3. In a perpetual calendar, members one rotatable with relation to the other, the second-mentioned member bearing a plurality of groups of annual year ordinals consecutively numerically indicated in a clockwise direction, the

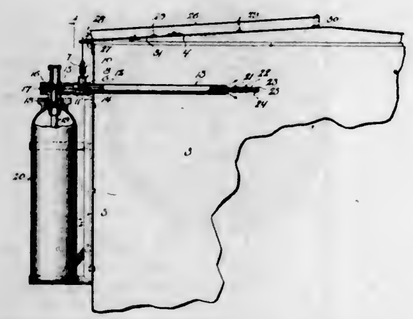
first-mentioned member bearing a plurality of groups of centurial year ordinals consecutively numerically designated in an anti-clockwise direction and adapted to be selectively brought to position relative to the groups of annual year ordinals in the rotation of the said first-mentioned member, and a plurality of yearly calendars upon the first-mentioned member arranged, in the rotation of the said member, to be individually brought to a position indicated upon the second-mentioned member, each of the yearly calendars being located relatively opposite the respective group of centurial year ordinals upon the first-mentioned member and each constituting a complete calendar for a year beginning on a predetermined week day, the total number of yearly calendars equaling the total number of days in a week and the arrangement of said yearly calendars with relation to the grouped centurial year ordinals upon the first-mentioned member being such that any year calendar in the indicated position will constitute a correct calendar for any year ordinal composable by a combination of any of the centurial and annual year ordinals of any two groups related in the said position of adjustment of the first-mentioned member.

1,377,430. MOTOR-VEHICLE SPRING. WALTER M. PETTY, Wabash, Ind., assignor to Service Motor Truck Company, Wabash, Ind., a Corporation. Filed Sept. 4, 1919. Serial No. 321,603. 7 Claims. (Cl. 267—53.)



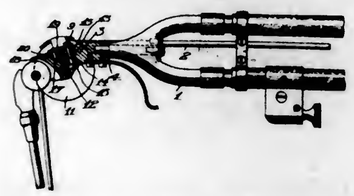
3. In a structure of the character described, the combination with a frame, an axle, and a leaved drive spring whose main leaf is adapted to transmit tractive thrust to said frame, of a top plate disposed centrally upon the main leaf and formed with a boss seated in said main leaf, a pressure block seated on said top plate and terminally flanged to engage it, a thrust block interposed between the axle and the spring and having a tongue and groove connection with the pressure block at each side of the spring whereby said blocks transmit thrust from the axle to the top plate and main leaf, a seating block for the axle, and U-bolts connecting said blocks and disposed at each side of said tongue and groove connection and said axle, substantially as described.

1,377,431. FIRE-EXTINGUISHER. RUDOLPH PFEIL, Jr., Milwaukee, Wis. Filed Mar. 21, 1919. Serial No. 284,118. 1 Claim. (Cl. 169—4.)



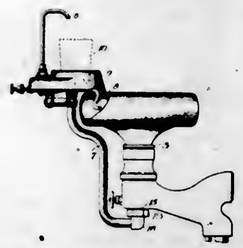
The combination with a storage compartment for combustible material including side walls and a roof, of a fire extinguisher, said roof having an opening therein, a cover hinged to said roof and normally covering said opening, means for controlling the discharge of extinguishing fluid from said fire extinguisher, an actuating cable having one end secured to said controlling means and the other end secured to the roof, the intermediate portion of said cable passing over said cover member, whereby the raising of said cover member will actuate said controlling means.

1,377,432. DENTAL-ENGINE BRACKET. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Original application filed May 27, 1912, Serial No. 699,938. Divided and this application filed Nov. 12, 1917. Serial No. 201,543. 5 Claims. (Cl. 32—21.)



1. In a dental engine bracket, the combination of a supporting arm having a recess therein, a pulley rotatably carried on said arm, a guard for said pulley having a portion rotatably and slidably carried in said recess in the arm, resilient means tending to slide said guard portion in said recess to maintain said guard in operative position adjacent said pulley, and coöperative parts on said arm and guard whereby, upon sliding and rotating said guard portion in said recess in opposition to said resilient means, said guard may be retained in inoperative position removed from said pulley.

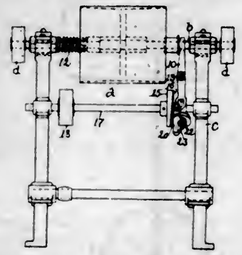
1,377,433. DENTAL CUSPIDOR. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed May 2, 1919. Serial No. 294,246. 4 Claims. (Cl. 4—40.)



1. In a cuspidor fixture, the combination with a bowl having a substantially circular rim and provided with a discharge opening, a support for the bowl and a fluid supply pipe having a discharge end on the support disposed centrally of the rim of the bowl, of a flush pipe discharging into the bowl at its upper end and extending downwardly therefrom and at its lower end communicating with the discharge end of the supply pipe, a basin carried by said flush pipe, said support and lower end of the flush pipe having bearing faces coöperating to support the flush pipe and basin and means for securing the flush pipe to the support to hold said faces in engagement.

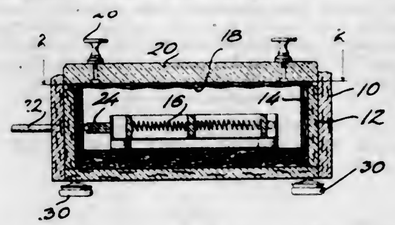
1,377,434. LEATHER-WORKING MACHINE. LYNDON O. RAMSDELL, Danvers, Mass., assignor to The Turner Tanning Machinery Company, Peabody, Mass., a Corporation of Maine. Filed July 22, 1920. Serial No. 398,162. 4 Claims. (Cl. 74—14.)

1. In a machine of the character described, in combination, a reciprocating tool, a lever for moving it in one direction, a spring to move it in the opposite direction, a rotatable cam coöperating with said lever and having an inclined face, a rotatable disk provided with a beveled circumference coöperating with the inclined face of said cam,



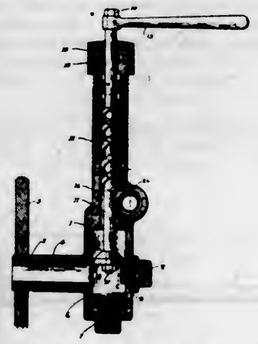
a carrier in which said disk is mounted to rotate in one direction, and a yoke attached to said lever and in which said carrier is mounted to turn in another direction at an angle to the first-mentioned direction.

1,377,435. ELECTRIC FOOT-WARMER. MATTHYS C. RASEN, Denver, Colo. Filed Mar. 1, 1920. Serial No. 362,392. 3 Claims. (Cl. 219—37.)



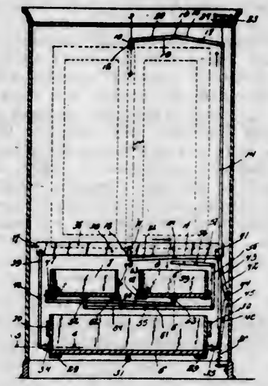
1. A foot warmer, comprising a casing, an insulating lining on the bottom and sides thereof, an electric heater therein, a removable heat-absorbing slab mounted on the casing above the heater, the sides of the casing extending up along the edges of the slab, and lifting means on the slab.

1,377,436. SAFETY WATER-GAGE FOR STEAM-BOILERS. HENRY AUGUST RENNICK, Ottawa, Ontario, Canada. Filed Feb. 12, 1920. Serial No. 358,223. 2 Claims. (Cl. 73—54.)



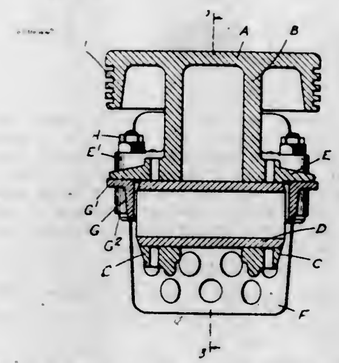
1. A glass gage mounting having a valve chamber provided with steam inlet and outlet extensions, a coarse pitch female thread formed in the bore of said outlet extension, a valve mounted in said chamber to close the steam outlet by the rush of steam upon the breakage of the glass, said valve having a threaded stem engaging the threads in the outlet extension, the pitch of the threads being sufficiently coarse to permit the pressure of steam to screw the valve stem and thereby close the valve upon its seat.

1,377,437. LATCH FOR CABINET-CLOSURES. LUIZ RIBEIRO, Fall River, Mass. Filed July 15, 1920. Serial No. 396,421. 7 Claims. (Cl. 292—33.)



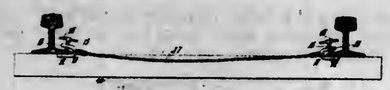
1. The combination with a cabinet having a closure, of means for automatically opening the closure when released for opening movement, two independently pivoted jointed levers, a latch connected with one of the levers for latching the closure in closed position, and actuating means connected with the other lever.

1,377,438. PISTON FOR INTERNAL-COMBUSTION ENGINES. HARRY RALPH RICARDO, London, England. Filed Dec. 10, 1920. Serial No. 429,729. 6 Claims. (Cl. 74—108.)



5. In a piston for an internal combustion engine the combination of a flanged disk constituting the piston head, a hollow projection of less diameter than the disk which is formed integral with this disk and projects from one face thereof, bosses adapted to carry the gudgeon pin formed on the hollow projection and disposed toward the end thereof which is remote from the disk, an annular enlargement formed on the hollow projection in the neighborhood of the bosses, an annular member adapted to fit onto the hollow projection and engage the annular enlargement thereon and also lie across the ends of the gudgeon pin and keep it in place, a pair of slipper members formed integral with the annular member and oppositely disposed thereon, these slipper members constituting a guide which has substantially the same diameter as the piston head, and means for connecting the annular slipper-carrying member to the hollow projection as set forth.

1,377,439. MEANS FOR SHORT-CIRCUITING BLOCK-SIGNALING SYSTEMS. SAMUEL B. RICE, Richmond, Va. Filed Feb. 11, 1921. Serial No. 444,067. 4 Claims. (Cl. 246—34.)



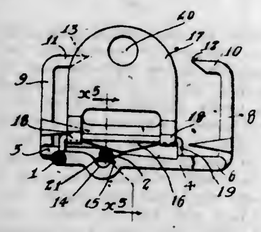
1. In combination with a block-signaling system for railways, similar devices with V-shaped recesses, and having gripping means for removably gripping and forming electrical contact with the inward base flanges of two opposite rails of a track in any block, the said recesses of the devices being somewhat higher than the thickness of said flanges to allow a slight space for the movement of said gripping means to bear upon the upper surfaces of said flanges, and an electrical conductor connecting said devices, said devices having their V-shaped recesses flared away from the ends of the conductor, and being adapted to be instantly engaged with, or disengaged from, said flanges.

1,377,440. VALVE-GRINDING TOOL. JOSEPH J. RISCHARD, Pasadena, Calif. Filed Nov. 11, 1919. Serial No. 337,326. 5 Claims. (Cl. 51—29.)



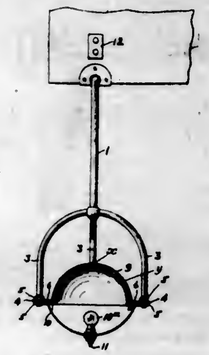
1. A valve grinder comprising a stem or handle connected for relative rotation and means for rotating the stem, a valve head engaging member, and a flexible connection between said member and the stem to permit the stem to be held and manipulated at an angle with respect to the axis of the valve engaged by said member, the said member having obliquely disposed dogs adjustable in the sockets of the valve head.

1,377,441. TRAP. CHARLES J. ROY, Los Angeles, Calif. Filed June 21, 1920. Serial No. 390,544. 4 Claims. (Cl. 43—88.)



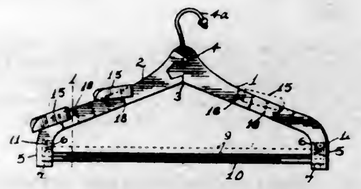
2. A trap comprising arms having jaws, one of said arms crossing the other, means tending to hold the arms with the jaws open, one of the arms having a shoulder, and means to releasably hold the other arm against the shoulder.

1,377,442. AERONAUTICAL CLINOMETER. SYDNEY J. SANFORD, Los Angeles, Calif. Filed July 14, 1919. Serial No. 310,697. 2 Claims. (Cl. 33—212.)



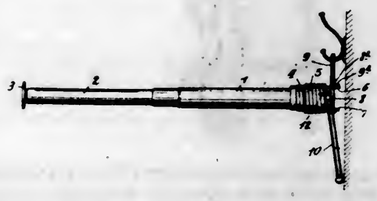
1. In an aeronautical clinometer the combination of an opaque bowl, a translucent double walled dome-like container forming with the bowl a light chamber, a source of light in said chamber, and liquid having a bubble therein provided in the container and illuminated by the source of light to emphasize the bubble, substantially as described.

1,377,443. GARMENT-HANGER. WILLIAM C. SHELLY, Norfolk, Va. Filed Sept. 7, 1920. Serial No. 408,576. 3 Claims. (Cl. 211—13.)



1. A garment hanger, of dove-tailed or inclaved members adapted to be united by a sidewise movement to lock the same together, said members provided with a bent end having slots therein, clamp rods having their ends movably mounted therein, plate holding means for the rods, and vertically coiled springs within the slots and adapted to be compressed by said rod or rods.

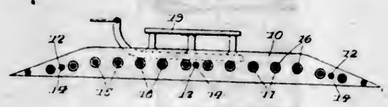
1,377,444. GARMENT-HANGER. JOSEPH A. SHOEMAKER, New York, N. Y. Filed Sept. 5, 1919. Serial No. 321,867. 8 Claims. (Cl. 45—13.)



8. In a device of the character described, a supporting bar of tubular form, a support for said bar, adjustable arms providing a lateral support for the bar and slidable within the tubular bar, slots formed in said tube through

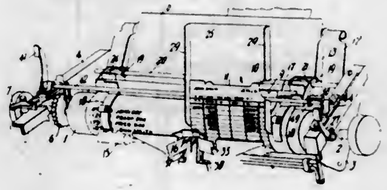
which the lateral arms extend, and a ferrule adjustably engaging the bar and adapted to bear against the laterally extended arms for holding the parts in adjusted position.

1,377,445. SLED-TRACK. LEO G. SIEMCKS, Wayne, Nebr. Filed Feb. 1, 1921. Serial No. 441,629. 1 Claim. (Cl. 104—135.)



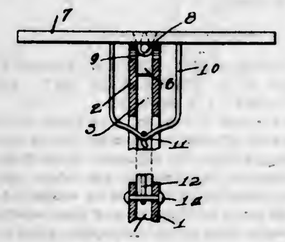
A trackway comprising a pair of side members each having its opposite ends inclined downwardly and formed with a longitudinal series of openings, the surrounding wall of each opening being formed with a bearing ball receiving channel, the openings of one member alining with the openings of the other member, bracing and spacing rods extending between and connected to the side members, and transverse rollers extending between the side members and each having trunnions on its opposite ends rotatable within series of bearing balls of alined openings.

1,377,446. TYPEWRITING-MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 19, 1919. Serial No. 305,237. 14 Claims. (Cl. 197—127.)



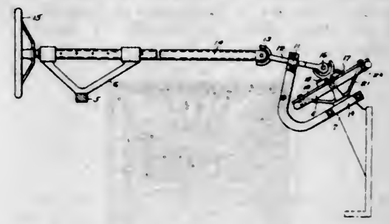
1. In a front-strike typewriting machine, the combination with a revoluble platen and a rear paper-table, of releasable feed-rolls for holding work-sheets against the platen, a chute in front of the platen and normally clear of it, paper-fingers adapted to guide a wide work sheet behind the chute, and means for swinging the lower edge of said chute against the platen to bind the wide work-sheet while a narrower sheet is being passed around the platen and onto the chute.

1,377,447. TREAD-WHEEL. WYATT C. STARR, Hosford, Fla. Filed Apr. 15, 1920. Serial No. 374,055. 1 Claim. (Cl. 305—13.)



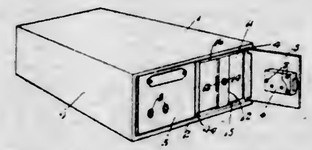
In a device of the class described, a wheel; carriers pivoted to the wheel for rocking movement circumferentially of the wheel; tread members pivoted to the carriers for rocking movement transversely of the wheel; springs connected to the wheel; and means for connecting the springs with the tread members to tension the springs when the tread members rock transversely of the wheel and when the carriers rock circumferentially of the wheel.

1,377,448. CONTROLLING MECHANISM FOR TRACTORS. FRED VIRGENS, Fairmont, Minn. Filed Apr. 2, 1920. Serial No. 370,666. 4 Claims. (Cl. 180—77.)



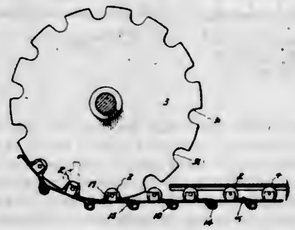
1. The combination with a pair of vehicles one of which is self propelled and is provided with a clutch controlling lever, of a fixed support carried thereby, a toggle mechanism between said support and the clutch lever and a manually operable extension shaft connected with said toggle mechanism for actuating the same.

1,377,449. SAFETY DEPOSIT-BOX AND LOCK CONSTRUCTION. PETER M. WEGE, Grand Rapids, Mich., assignor to Invincible Metal Office Furniture Company, Manitowoc, Wis., a Corporation of Wisconsin. Filed May 20, 1919. Serial No. 298,541. 7 Claims. (Cl. 109—12.)



1. In a device of the character described, a receptacle having an open side, a door for closing said open side, a lock on the rear side of the door, and means disposed between opposite sides of the receptacle and held at its ends by said sides of the receptacle positioned to lie directly back of the lock when the door is closed and thereby safeguard the lock from detachment from the door, substantially as described.

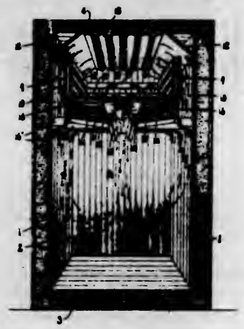
1,377,450. DRAG-CHAIN LINK. CHARLES N. WHIPPLE, Bellingham, Wash. Filed Sept. 8, 1919. Serial No. 322,475. 6 Claims. (Cl. 74—43.)



2. A drag chain link comprising a plate formed with a central tongue at one end bent downwardly to form a hook,

the other end of said plate being bent first downwardly and then upwardly to form a hook, the edge of said second hook being depressed below the upper level of the plate, and tongues at each end of the second hook extending laterally to the main plate and being secured thereto, portions of the main plate being depressed to receive the ends of the tongues, to form a plane upper surface.

1,377,451. REFRIGERATOR. EDWARD J. WIRFS, St. Louis, Mo., assignor to National Refrigerators Company, St. Louis, Mo., a Corporation of Missouri. Filed May 15, 1916. Serial No. 97,556. 1 Claim. (Cl. 62—46.)



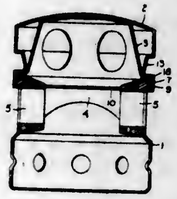
A refrigerator comprising main walls forming a cold storage compartment and an ice compartment above said cold storage compartment, said ice compartment being provided with an ice rack and opposing baffle walls separated from two of said main walls to provide warm air up ducts at opposite sides of said ice compartments, said baffle walls being imperforate to prevent the rising warm air currents from meeting the downwardly moving cold air currents within the ice compartment and the upper edges of said baffle walls being separated from the main top wall to allow the warm air currents to flow over said upper edges and into the upper portion of said ice compartment, drip shelves located below said ice rack and separated from each other to provide a central down duct for the cold air, a water deflector located below said ice rack at a point above said central down duct, and a V-shaped air deflector beneath said water deflector by which the air descending in the ice compartment and passing beneath said water deflector is directed through the central down duct between the drip shelves.

1,377,452. RAILROAD-SWITCH-OPERATING DEVICE. JOSEPH BAKOVICH, Herminie, Pa. Filed Feb. 28, 1921. Serial No. 448,638. 4 Claims. (Cl. 246—343.)



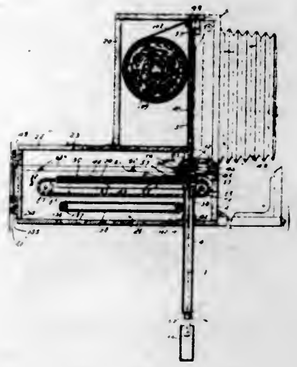
1. Train-actuated operating mechanism for switches comprising operatively connected switch points, a rack operatively connected to said points adapted for shifting the points for permitting travel upon the main track or a siding at will, operating levers for the rack inwardly projecting toward the track in different horizontal planes and a bar carried by the train adapted for adjustment for selectively engaging said levers whereby the switch points are shifted in either desired direction.

1,377,453. PISTON. CHESTER R. BANDLE, Los Angeles, Calif. Filed Aug. 27, 1919. Serial No. 320,092. 6 Claims. (Cl. 74—108.)



1. A device of the character described comprising a piston, a casting located within the piston having piston-pin bosses thereon, and a piston-head supporting brace located in the piston and engaging said casting.

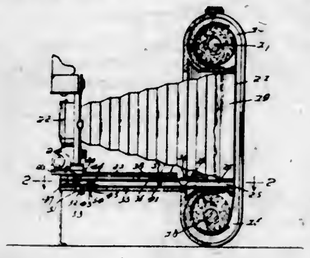
1,377,454. PHOTOGRAPHING AND DEVELOPING APPARATUS. GEORGE C. BEIDLER, Rochester, N. Y. Filed July 19, 1915. Serial No. 40,728. 4 Claims. (Cl. 95—13.)



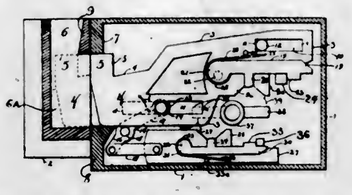
1. In an apparatus relating to photography, means for containing a supply of film, means for drawing the film therefrom, a receptacle to which the film is delivered by the drawing means, a knife near the path of travel of the film, a knife adapted to coact with the first mentioned knife for severing film, means for operating the second mentioned knife, a rod past which the film travels to the receptacle, means for moving the rod to draw the film from the receptacle, means actuated in conjunction with the rod moving means for moving one of the knives in cutting the film, and motor driven means for actuating the aforesaid movable elements.

1,377,455. AUTOGRAPHIC CAMERA. GEORGE C. BEIDLER, Rochester, N. Y. Filed Aug. 15, 1917. Serial No. 186,390. 7 Claims. (Cl. 95—1.1.)

1. A camera adapted to produce a principal image upon a sensitized member therein, a passage having light-tight walls and opening at one end adjacent to the front of the sensitized member in the camera, the other end being adapted for the reception of light to be conducted to said member, the said walls having a hinged joint between their ends whereby one section of the light-tight walls is hinged with relation to the other section of said walls, means for guarding the said joint to exclude light, means for producing in the passage a supplemental image on such sensitized member, an exposure-timing shutter to independently control the light passing through said supplemental image-producing means alone, and an inscription carrier so supported that the image of the inscription thereon will be projected on the sensitized member in the camera by said supplemental image-producing means.

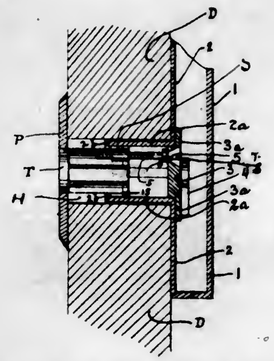


1,377,456. LOCK. ALEXANDER BLOCK, New York, N. Y. Filed Jan. 2, 1920. Serial No. 348,902. 16 Claims. (Cl. 70—75.)



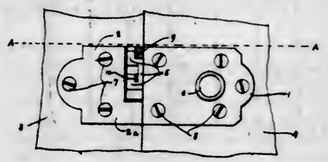
1. In a lock, the combination of a lock casing, a hooked bolt adapted for slidable and pivotal movement on said casing, a lever movably mounted on said casing, means for moving said bolt and for subsequently causing said lever to project said hooked bolt into engaging position.

1,377,457. LOCK. ALEXANDER BLOCK, New York, N. Y. Filed Apr. 15, 1920. Serial No. 374,107. 6 Claims. (Cl. 70—46.)



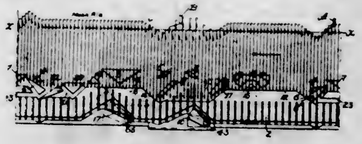
1. In a lock, a lock casing having a removable plate, a cylindrical member thereon, said member embracing an inner and an outer opening, a tumbler barrel casing, said cylindrical member and said tumbler-barrel casing being connected together for longitudinal adjustment relatively to each other, a plate for covering the inner opening of said cylindrical member, a rotatable sleeve having a cam on said covering plate, a rotatable key plug carried by said tumbler barrel casing, an adjusting device operatively connecting said covering plate with said tumbler-barrel casing, said adjusting device being accessible for operation only at the inner aspect of said covering plate, and additional means for arresting the outward movement of said tumbler barrel casing.

1,377,458. KEEPER. ALEXANDER BLOCK, New York, N. Y. Filed June 21, 1920. Serial No. 390,411. 3 Claims. (Cl. 292—340.)



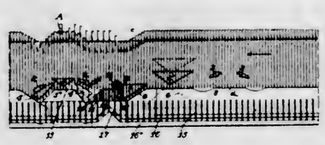
1. A door jamb keeper having a mortise plate adapted to be taken into a hole in said jamb, and a latch strike plate extended at an angle to the length of said mortise plate and forming a compartment therewith for receiving a locking projection.

1,377,459. STOCKING-KNITTING MACHINE. GEORGE P. BOSWORTH, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Aug. 27, 1914. Serial No. 858,953. 15 Claims. (Cl. 66—21.)



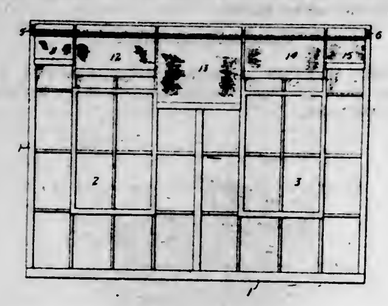
4. In combination in a stocking knitting machine, needles, a main and a supplemental feed, a main stitch cam and a supplemental stitch cam for the said feeds respectively, a cam for retiring the needles at the supplemental feed, selectors for advancing certain of the needles after being retired by said cam, and a cam for operating upon the selectors for advancing them, with means for automatically adjusting this selector operating cam to operative or inoperative position, substantially as described.

1,377,460. STOCKING-KNITTING MACHINE FOR MAKING ANTIRAVELING COURSES. GEORGE P. BOSWORTH, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Feb. 13, 1915, Serial No. 8,011. Renewed Dec. 22, 1917. Serial No. 208,530. 10 Claims. (Cl. 66—21.)



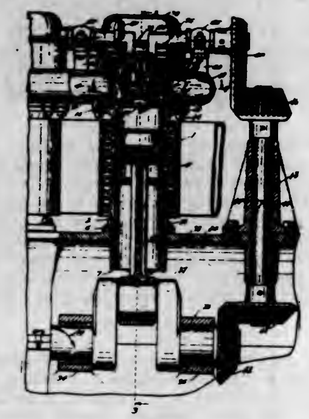
7. In a stocking machine, in combination, means including cams 7 and 17 for dividing the needles and advancing one set thereof to take yarn and knit, and means including the cam 5* adapted independently to advance the other needles to take the yarn but not to clear their loops below their latches.

1,377,461. MULTIPLE SHADE-ROLLER. AUSTIN D. BRIXEY, New York, N. Y., assignor to Ordinator Company, Inc., a Corporation of New York. Filed Aug. 15, 1917. Serial No. 186,287. 9 Claims. (Cl. 156—29.)



5. The combination with a rod of a plurality of shade rollers rotatably mounted thereon, each of said rollers comprising disks and a shell about said disks, springs interposed between said rod and each of said rollers, said springs tending to turn the rollers on the rod and means for holding the rollers against rotation, said disks having hubs extending beyond the circumferential surfaces of the rollers and abutting against each other to space the rollers along the rod.

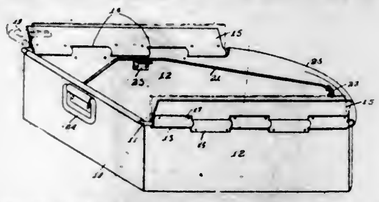
1,377,462. ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor of one-half to Homer A. Bunell, Los Angeles, Calif. Filed Oct. 4, 1919. Serial No. 328,602. 3 Claims. (Cl. 123—64.)



2. The combination with a piston cylinder, of a neck extending upwardly from the head of the piston cylinder, a head extending upwardly from the neck there being lateral ports through the neck and a piston valve bore through the head and neck and communicating with the piston chamber, a rotary sleeve mounted around the chamber end of the piston cylinder and around the head there being a chamber between the sleeve and the neck and there being a port through the sleeve, a piston in the piston valve bore, a crank for operating the piston, and a connection between the crank and the engine crank shaft.

1,377,463. ASH-PAN. JOHN S. CAMERON, Elliott, Ill. Filed Apr. 8, 1920. Serial No. 372,246. 1 Claim. (Cl. 126—243.)

In an ash pan, a body portion, doors forming a part of the ash pan, a supporting member having right angled extremities, the right angled extremities having slotted portions to provide gripping fingers, said gripping fingers adapted to grip the doors, and a handle section including a bar having its ends secured to the supporting member



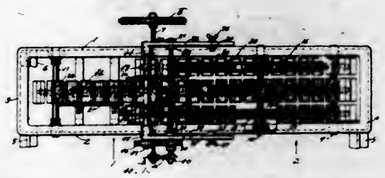
and having a portion thereof disposed in spaced relation with the supporting member.

1,377,464. MOP-HEAD. JOHN E. CLARK, Lillington, N. C. Filed May 5, 1920. Serial No. 379,028. 1 Claim. (Cl. 15—56.)



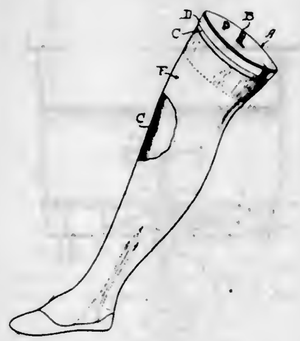
A mop of the class described comprising a central clamping section, outer clamping sections arranged on opposite sides of said central section, bolts having their intermediate portions extended through and rigidly connected to said central section, whereby the bolts are held against endwise movement and rotation with relation to the central section, both end portions of each bolt being screw threaded and arranged on opposite sides of said central section, the outer sections being provided with openings detachably receiving the threaded end portions of said bolts, separate cleaning elements confined between said central and said outer sections, and a nut threaded on each end portion of each bolt for securing each cleaning element in position independently of the other cleaning element whereby one of the cleaning elements may be replaced independently of the other cleaning element.

1,377,465. FISH-TRIMMING MACHINE. JOHN E. COX, East San Pedro, Calif. Filed July 17, 1919. Serial No. 311,603. 5 Claims. (Cl. 17—10.)



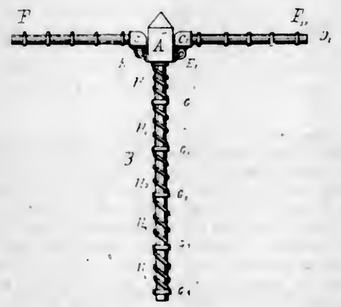
1. A fish trimming machine comprising a body conveyer, a driving shaft intermediate of the ends of the body conveyer, a driving sprocket fixed upon the shaft and driving the body conveyer, a head conveyer on one side of the body conveyer and operated by the driving shaft, a tail conveyer on the other side of the body conveyer and operated by the driving shaft, the head and tail conveyers passing around the driving shaft and the body conveyer passing forwardly around an idler shaft, lower cutters fixed upon the driving shaft, an adjustable shaft above and behind the driving shaft, upper cutters upon the adjustable shaft, and means for driving the upper cutters from the driving shaft.

1,377,466. DISPLAY-FORM. ROBERT H. COWLEY, Salt Lake City, Utah. Filed June 16, 1920. Serial No. 389,325. 1 Claim. (Cl. 211—13.)



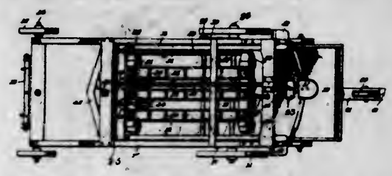
The inflatable display form herein described, for exhibiting a complete woman's stocking consisting of a cap member composed of two cup-shaped elements fitting together, an air valve having its lower end passing through and connecting the elements in said member, an inflatable body member secured at its upper edge to said cap member, and vertically disposed reinforcing strips in the body member disposed at the front and back and on each side of said body member of flexible material and extending the entire length of said body member.

1,377,467. TORPEDO-OBSTRUCTING PROJECTILE. WILLIAM A. CRAWFORD-FROST, Baltimore, Md. Filed Nov. 13, 1920. Serial No. 423,980. 5 Claims. (Cl. 102—26.)



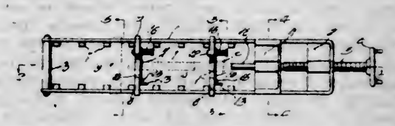
5. In a torpedo-obstructing projectile, the combination of two nets at right angles to each other, one bisecting the other, with a flotation tube supporting the bisecting net; and two transverse arms, attached to the flotation tube by arm blocks and spring hinges outside the flotation tube, the said transverse arms supporting the bisected net; and the bisecting net being supported by rings on the said flotation tube, the said rings being spaced apart by coil springs; and a ring as shown herein for holding down said transverse arms; and chains having hooks at each end to attach the said ring to a gun, or to a deck of a ship, before firing.

1,377,468. BED-BEET GATHERER. MICHAL CZYZOWICZ and JAN SZUMILAS, Chicago, Ill. Filed Dec. 17, 1919. Serial No. 345,511. 7 Claims. (Cl. 55—9.)



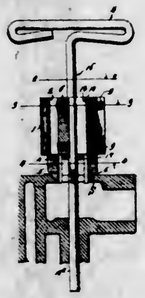
1. A harvester comprising a wheeled vehicle, a frame pivoted within the body of the vehicle, a roller journaled within the frame, gear connections between the roller and the rear wheels of the vehicle whereby the roller is revolved during the travel of the vehicle, sets of beet pullers mounted in spaced relations upon the roller and a receiving belt running over the roller at opposite sides of the pullers adapted for receiving the beets for conveying the same rearwardly of the vehicle.

1,377,469. PRESS. THEODORE ERICKSON, Charlevoix, Mich. Filed Apr. 5, 1920. Serial No. 371,317. 3 Claims. (Cl. 29—85.)



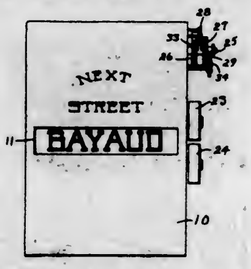
1. A device of the class described comprising an open frame including a pair of side bars and a cross head, sets of stops fixed to said side bars, work supporting bars removably supported upon said side bars, said supporting bars being adjustable longitudinally on said side bars and when in adjusted positions resting against certain of said stops, a block slidably mounted upon said side bars and carrying a work engaging pushing tool, and a screw threaded to said cross head and engaging said block for moving the latter longitudinally on said side bars.

1,377,470. COMBINED VALVE-CUTTER AND VALVE-SEAT REAMER. WALTER E. FEHR, Baltimore, Md. Filed June 23, 1919. Serial No. 306,136. 1 Claim. (Cl. 82—1.)



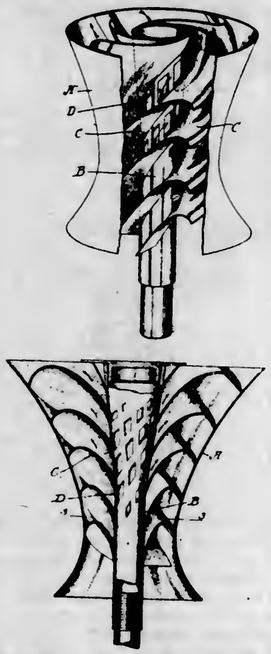
A device of the class described comprising a stock having means convertible to cut either a valve or its seat, said stock having a central bore, a stabilizing and operating device for said stock comprising a rod to be passed through said bore, said stock having a groove in one end, and said rod having longitudinally spaced apertures extending transversely therethrough, and pins extending through said apertures so as to be situated adjacent opposite ends of the stock, one of said pins lying in said stock groove.

1,377,471. STREET-INDICATOR. ALBION D. FOSTER, Denver, Colo. Filed Mar. 22, 1919. Serial No. 284,446. 4 Claims. (Cl. 40—89.)



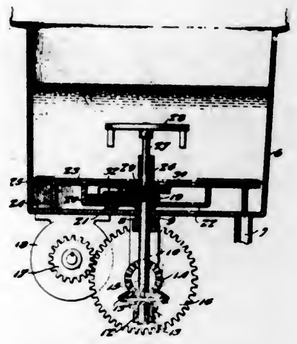
1. In an indicator, a casing having a sight opening in the side thereof, a pair of rollers arranged in the ends of the casing, an endless apron trained over said rollers and moving past the sight opening, a pair of reels disposed between the rollers, a web having its ends wound about said reels and frictionally engaging over said apron and across the sight opening, contractile springs connected to said rollers and adapted to be wound for normally urging said web to wind on one of the reels, a stem on one of the rollers projecting through the side of the casing, a pair of spaced-apart ratchet wheels on said stem and having their teeth extending in opposite directions, pawls pivoted upon the stem, one for each ratchet wheel, springs normally urging the pawls into interlocking engagement with their respective ratchet wheels, means for advancing the pawls in directions opposite to the springs whereby to slightly operate the ratchet wheels and drive the web in opposite directions.

1,377,472. MUFFLER FOR INTERNAL-COMBUSTION ENGINES. HAMILTON GIBSON, Seal Harbor, Me. Filed Feb. 14, 1918, Serial No. 217,084. Renewed Oct. 1, 1920. Serial No. 414,141. 9 Claims. (Cl. 137—60.)



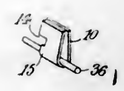
4. In a muffler for internal combustion engines, the combination with a perforated exhaust pipe of a casing surrounding the same, partitions therein forming a plurality of spiral compartments open at both ends and gradually enlarged toward the outlet for the purpose set forth.

1,377,473. WASHING-MACHINE. LEON GSCHWIND, Youngstown, Ohio. Filed June 16, 1920. Serial No. 389,413. 6 Claims. (Cl. 259—101.)



1. An actuating means for a stirrer, consisting of a receptacle, a rotary element therein and a driving mechanism or unit for operating said agitating element, said actuating means fitting the receptacle above the bottom thereof and having a water tight connection therewith.

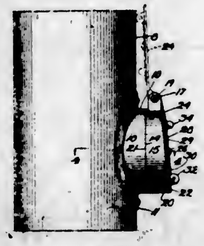
1,377,474. MAKING BACKING-PLATES FOR ARTIFICIAL TEETH. AMI HENRY GUNTHER, Chillicothe, Ohio. Filed June 29, 1920. Serial No. 392,728. 6 Claims. (Cl. 113—39.)



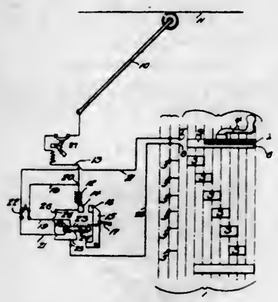
1. In the art of making backing plates for artificial teeth, the improvement comprising cutting in the edge of a sheet metal blank a notch or recess having a tongue extending into the recess from the inner or bottom edge thereof, bending the blank in line with the tongue to produce a tubular rib with the tongue forming one end thereof, and bending the sides of the blank outwardly along lines spaced laterally from the rib to form a back plate with the rib connected thereto by an intermediate web shorter than the rib itself.

1,377,475. DRAFT DEVICE. VINCENT M. HAAS, Philadelphia, Pa. Filed Feb. 27, 1919. Serial No. 279,490. 1 Claim. (Cl. 126—292.)

A device of the character described including a stub tube providing a draft passageway; a damper on said stub tube for closing said passageway, said damper having an aperture and a lug; a pivot pin on said damper; and a shutter having a slot through which said pivot pin extends to provide a movable bearing for said shutter, said shutter having a notched portion capable of embracing said lug, said shutter having a portion adapted to close said aperture when said notched portion is positioned to embrace said lug, said slot permitting the notched portion to be moved so as to clear said lug whereby the shutter can be moved out of closed position with said aperture; substantially as described.

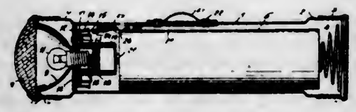


1,377,476. CURRENT-SAVING DEVICE. WILLIAM J. HAHN, Philadelphia, Pa. Filed Jan. 20, 1920. Serial No. 352,886. 2 Claims. (Cl. 172—179.)



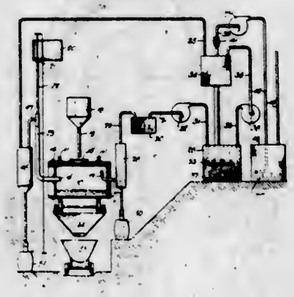
1. A device of the character described including a series circuit and a shunt coil adapted to close the series circuit; and means for cutting out the shunt coil while the circuit through the series coil is maintained, said series coil, due to weakening by the lowering of the amperage, being operative to effect the entire breaking of the circuit therethrough; substantially as described.

1,377,477. BATTERY HAND-LAMP. CARL HAMBUECHEN, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Apr. 13, 1917. Serial No. 161,704. 21 Claims. (Cl. 240—8.5.)



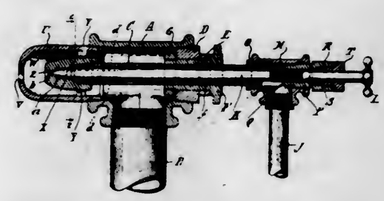
19. In a battery hand-lamp, a lamp-supporting reflector, an insulating base secured to said reflector, a plate secured to said base and having a cylindrical extension inclosing the base of the lamp and adapted to engage an adjacent pole of the battery for rigidly transmitting forward movement of the battery to said base and through the latter to said reflector, and a flexible contact member between said plate and the central terminal of the lamp.

1,377,478. APPARATUS FOR GENERATING GASES AND TREATING SOLUTIONS THEREWITH. HERBERT R. HANLEY, San Francisco, Calif. Original application filed Apr. 15, 1919, Serial No. 290,214. Divided and this application filed Nov. 13, 1919. Serial No. 337,676. 12 Claims. (Cl. 23—10.)



1. The combination with a gas generator, of a treating tank in closed circuit with said generator, and means for maintaining a partial vacuum in said generator.

1,377,479. LIQUID-FUEL BURNER. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 2, 1920. Serial No. 370,748. 2 Claims. (Cl. 158—76.)

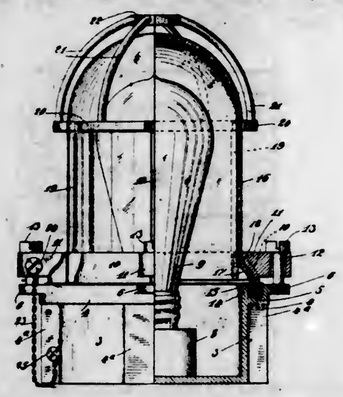


1. A liquid fuel burner comprising in combination a hollow burner casing having a supply inlet for air under pressure and an open discharge end of smaller diameter than the body portion of said casing, a longitudinally immovable feed nut revolubly secured in the opposite end of said casing, a non-rotatable fuel conveying pipe extending through said feed nut into said burner casing and operatively connected to be adjusted longitudinally by the rotation of said feed nut, a removable conically formed nozzle member connected to the discharge end of said fuel conveying pipe and centrally guided within said burner casing, a commingling chamber at the forward end of said burner casing formed between the nozzle member and the discharge end of the casing, a plurality of ribs on said nozzle member directly engaging the wall of the burner casing and dividing the air into a plurality of streams, said streams converging directly at said open discharge end of the casing at the forward end of said commingling chamber, a needle valve extending through said fuel pipe to the said nozzle member and guided centrally therein and manual means independent of said feed nut for adjusting said needle valve longitudinally in said fuel pipe and nozzle, said nozzle when in its extreme forward position materially reducing the volume of said commingling chamber.

1,377,480. LAMP-FIXTURE. CHARLES J. HENSCHEL, Brooklyn, N. Y. Filed Mar. 28, 1919. Serial No. 285,903. 3 Claims. (Cl. 240—11.)

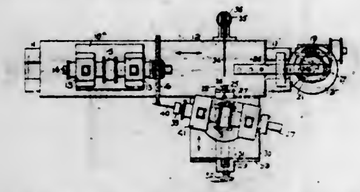
2. As an article of manufacture, a lamp fixture comprising a base having the form of a cup and provided with a

groove of annular form, a gasket located within said groove, a clamping ring separate from said base, said clamping ring having an annular flange extending from it and so disposed that said annular flange can be fitted to



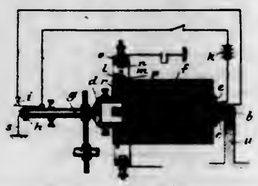
abut edgewise against the face of said gasket, means for forcing said clamping ring toward said base in order to press said annular flange edgewise against the face of said gasket, and a globe carried by said clamping ring.

1,377,481. PUNCH-GRINDING MACHINE. HAROLD WM. HODGSON, Worcester, Mass. Filed Aug. 5, 1920. Serial No. 401,343. 6 Claims. (Cl. 51—100.)



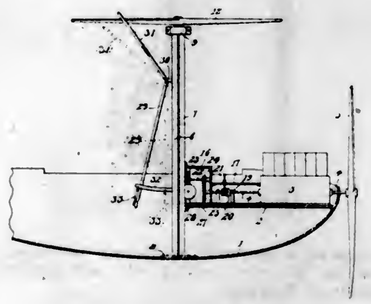
1. In a punch or reamer grinding machine, the combination of a slide, a head, a shaft mounted in bearings thereon, a grinding wheel carried by said shaft, means for moving said slide longitudinally, a transversely movable slide, a head swiveled on the second slide, a chuck on the last named head for holding the blank to be ground, continuously acting means for moving the second slide transversely, a roller on the first slide, and a former on the second slide engaging the roller for controlling the effect of said continuously acting means.

1,377,482. BATTERY IGNITION FOR INTERNAL-COMBUSTION ENGINES. GOTTLOB HONOLD, Stuttgart, Germany, assignor to The Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Feb. 6, 1920. Serial No. 356,790. 2 Claims. (Cl. 123—148.)



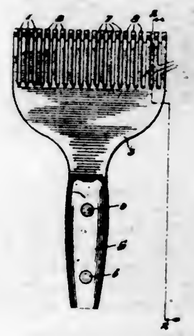
1. In a battery ignition system for multi-cylinder engines, the combination of an induction coil having a stationary primary winding and a rotatable secondary winding, and means for rotating said secondary winding.

1,377,483. GEAR BOX AND DRIVE FOR AEROPLANE-PROPELLERS. GEORGE HEIB, Simpson, W. Va. Filed Feb. 2, 1921. Serial No. 441,872. 5 Claims. (Cl. 244—19.)



1. A propeller shaft drive for aeroplanes comprising a vertical standard, a shaft journaled in said standard, a propeller upon the upper end of said shaft, a worm fixed to said shaft within the standard, said standard having a side opening therein exposing the worm and a train of gearing including a worm wheel extending into said opening for engagement with said worm.

1,377,484. SCRAPER. GEORGE J. HUNERYAGER, Chicago, Ill. Filed Dec. 26, 1918. Serial No. 268,426. 1 Claim. (Cl. 145—47.)

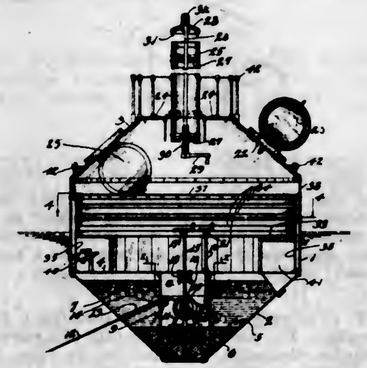


A tool of the class described comprising a blade having a beveled edge, said edge being provided with a plurality of spaced parallel recesses forming parallel teeth; and grooves formed in the beveled side of said blade leading from said recesses, substantially as described.

1,377,485. PROCESS FOR THE MANUFACTURE OF PERMANGANATES. HENRY CHARLES JENKINS and HUGH WOOLNER, London, England. Filed Feb. 3, 1919. Serial No. 274,701. 11 Claims. (Cl. 204—9.)

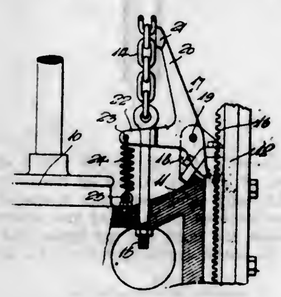
1. An improved process for the manufacture of potassium permanganate, which consists in fusing together manganese dioxid with an excess of an alkaline sodium compound at a dull red heat with the employment of an oxidizing agent, dissolving the melt, completely separating the solution from the manganese mud, electrolyzing the liquor to produce permanganate, forming and separating potassium permanganate from the permanganate liquor by the addition of a potassium compound, reusing the sodium compounds in the remaining liquor in the first step of the process.

1,377,486. LIFE-SAVING BUOY. CHARLES GEORGE JOHNSON, Sault Ste. Marie, Mich., assignor of one-half to Nils Ludewic Larsen, Sault Ste. Marie, Mich. Filed June 8, 1920. Serial No. 387,437. 7 Claims. (Cl. 9—4.)



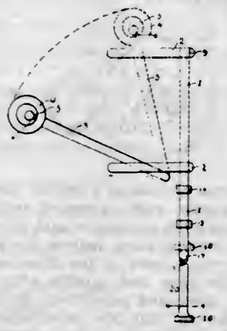
1. A life saving buoy including a hollow shell inclosing a living compartment, walls providing a closed chamber within the shell separate from the living compartment, a reel mounted within the chamber, a tubular cable guide extending from the chamber to the exterior of the shell, a cable extending through the guide and attached to the reel, and control means for the reel operable from the living compartment.

1,377,487. SAFETY DEVICE FOR DRILLS. HENRY V. JOHNSON, St. Paul, Minn. Filed Apr. 12, 1920. Serial No. 373,317. 1 Claim. (Cl. 77—36.)



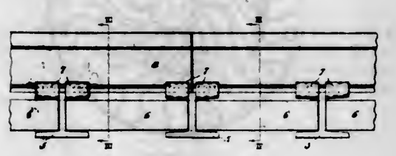
The combination with a machine of the character described including a track, a toothed rack extending longitudinally of the track and a carriage slidably mounted upon the track and including actuating mechanism for operatively engaging the teeth of the rack, of a suspending cable for the carriage extending in spaced relation to the track, a pawl pivotally mounted and having its free end portion formed into a nose for fitting between the teeth of the rack when in an operative position to hold the carriage against downward sliding movement, an abutment arm extending from the pawl and extending for engagement with the cable to hold the pawl against pivotal movement and retain the pawl in an inoperative position while the arm is in engagement with the cable, an actuating lever extending from the pawl, and means connected with the actuating lever for imparting movement to the lever and swinging the pawl into engagement with the rack when the abutment arm is out of engagement with the cable.

1,377,488. VEHICLE SIGNALING-CRANE. ROSAMOND L. JOHNSON, Port Orchard, Wash. Filed Mar. 15, 1920. Serial No. 365,964. 6 Claims. (Cl. 116—54.)



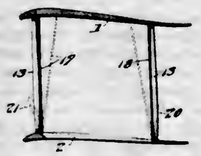
1. A vehicle signaling crane of the character described, comprising a signal plate, an electric light bulb attached to the plate, an arm composed of a hollow shaft attached to the signal plate, and pivotally attached to the supporting part of the vehicle, an electric light wire to feed the bulb passing through the central cavity of said shaft, an arm to engage and actuate said shaft, a longitudinal slot in said arm, through which passes the shaft bearing the signal, and means for actuating them.

1,377,489. RAILWAY-TRACK CONSTRUCTION. JOHN JUROKA, Cleveland, Ohio. Filed Oct. 6, 1920. Serial No. 414,973. 3 Claims. (Cl. 238—66.)



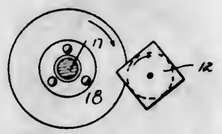
2. In railway track construction, a metallic tie of I-beam formation having tie spacing tongues at the opposite ends thereof struck from the web of the same.

1,377,490. AEROPLANE. ALBERT A. KELLOGG, Kansas City, Mo. Filed July 27, 1920. Serial No. 399,300. 10 Claims. (Cl. 244—14.)



1. An aeroplane including with spaced upper and lower planes, the lower plane having an opening in its center, flaps hinged at edges of the opening to be swung down to close the same and to swing up to provide a parachute structure of which the upper plane forms the top.

1,377,491. PROCESS FOR MAKING PEARL-BUTTON BLANKS. Edwin B. Hammer, Harry H. Knott, and Carl J. Jungbluth, Washington, Iowa, assignors to Washington Manufacturing Company, a Corporation of Iowa. Filed Jan. 13, 1920. Serial No. 351,180. 4 Claims. (Cl. 79—1.)



1. The process of making a button blank from a piece of fragile material, such as mussel shell, which readily chips, comprising the rotation of said piece and the movement of the rotating piece against the substantially flat face of a moving grinder in the direction of the axis of rotation of the piece and parallel with the axis of rotation of the piece and parallel to the axis of rotation of the grinder so that the substantially flat surface of the blank, rather than the periphery thereof, is brought into contact with the grinder, and until, by such grinding, a circular form and appropriate diameter is given to each piece.

1,377,492. GUARD FOR ELECTRIC HEATERS. Richard G. Ledig, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 31, 1919. Serial No. 334,807. 3 Claims. (Cl. 219—34.)



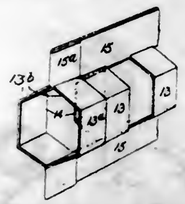
2. In a guard for an electric heater, a series of arms, an annulus supporting said arms at the center of the front of the guard, and an annulus of open form secured to said arms near the extremities thereof.

1,377,493. PROCESS OF NEUTRALIZING AND DRYING COMMERCIAL AMMONIUM SULFATE. Samuel Ernest Linder, Buckhurst-Hill, and Rudolf Lessing, London, England, assignors to Hydronyl Syndicate, Limited, London, England. Filed June 2, 1919. Serial No. 301,280. 8 Claims. (Cl. 23—13.)

1. The process of treating commercial sulfate of ammonia which comprises subjecting the sulfate to the action of an agent adapted to affect the neutralization of free sulfuric acid, which agent is normally solid and simultaneously to agitation and to the removal of water.

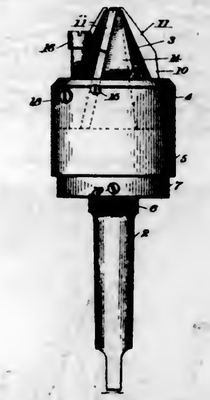
1,377,494. METHOD OF MAKING CELLULAR ELEMENTS FOR RADIATORS OR THE LIKE. D McRa Livingston, New York. N. Y. Filed May 19, 1917, Serial No. 169,683. Renewed July 23, 1920. Serial No. 398,546. 6 Claims. (Cl. 113—116.)

1. The method of forming cellular elements from a flat sheet of single thickness for a purpose specified; which comprises providing a longitudinal margin of the plate with equally spaced deformations which define the connected sides of one-half a polygon, one of these sides being in a plane parallel with the plane of the sheet; the deformations being spaced by portions of the sheet whose lengths are substantially equal to the length of the



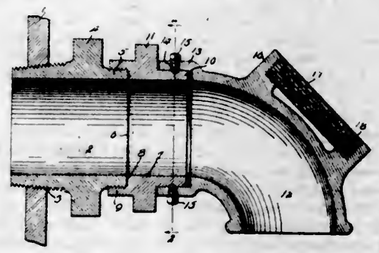
parallel side aforesaid; longitudinally slitting the deformations; and thereafter positioning one-half the marginal deformations relative to the other half thereof so that the edge view of the "sheet" simulates a series of polygons.

1,377,495. COUNTERSINK. Marselius J. Logan, Springfield, Va., assignor of one-half to Laurence G. Alexander, Alexandria, Va. Filed Feb. 14, 1920. Serial No. 358,786. 3 Claims. (Cl. 77—73.5.)



1. In a countersink, the combination with a shank and a head thereon, of a flange carried by the head and extending concentrically along the shank in spaced relation thereto, cutters mounted on the head and extending into the space between the same and the flange, and a collar adjustable on the shank within said flange for alining the cutters.

1,377,496. SAFETY-PLUG FOR CYLINDERS. Vincen P. McVoy, Mobile, Ala. Filed July 3, 1920. Serial No. 393,889. 8 Claims. (Cl. 220—89.)

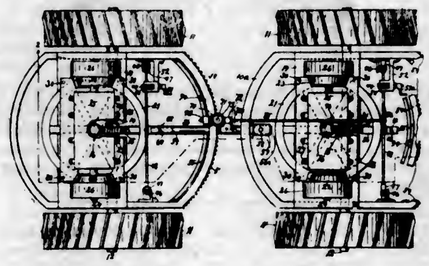


1. A safety attachment for cylinders embodying a member adapted to be displaced by abnormal pressure with

in the cylinder, and a removable reversible elbow member adapted to serve also as a temporary cap.

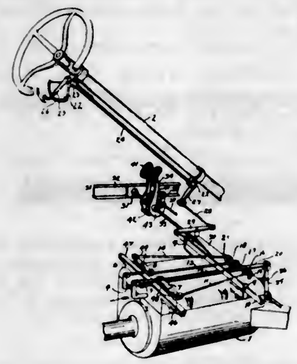
3. A safety attachment for cylinders embodying a plug, a gasket held thereto, and means directing the discharge of steam upon rupture of the gasket and serving when in reversed position as a cap to said plug.

1,377,497. FOUR-WHEEL-DRIVE TRACTOR. Franklin A. Mattson, Rochester, Minn. Filed Mar. 13, 1920. Serial No. 365,638. 5 Claims. (Cl. 180—14.)



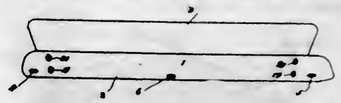
1. A tractor having four traction wheels and two motors arranged to operate all four of said wheels simultaneously, said tractor being readily separable into two smaller tractors or sections each with two traction wheels and one of the motors, and an attachment for each tractor section to keep it in horizontal position when detached from the other section of the tractor.

1,377,498. CLUTCH AND TRANSMISSION MECHANISM. Walter F. Mottier, El Campo, Tex. Filed Feb. 18, 1919. Serial No. 277,800. 2 Claims. (Cl. 74—58.)



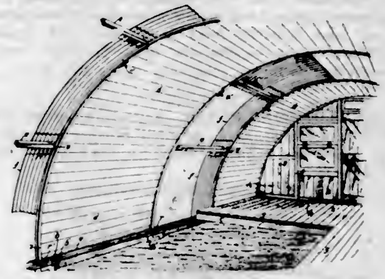
1. In a motor vehicle the combination with a clutch, of a transmission mechanism through which power may be transmitted from the motor at variable rates of speed; a speed selective device adapted, when actuated, to effect changes in the gear ratio; said device including gear shifting members connected to the transmission gears, a transfer mechanism and a manually controlled mechanism through which said transfer mechanism may be shifted to adjust either of said members to a selected position; a clutch actuating means; an actuating device connected to, and actuated by, said means, through which the selected member is actuated to shift the corresponding transmission gear.

1,377,499. COLLAR ATTACHMENT. Joseph Henry Mullaly, Winnipeg, Manitoba, Canada. Filed June 26, 1919. Serial No. 306,997. 2 Claims. (Cl. 2—71.)



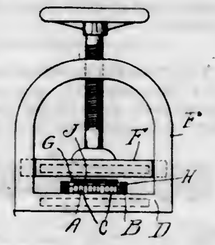
2. A tie attaching pin for collars comprising a single strand bent to form a loop with the ends of the strand spaced apart and provided with heads pivoted thereto and insertible through openings in a collar band to secure the loop thereto.

1,377,500. PORTABLE BUILDING. Peter Norman Nissen, London, England. Filed Mar. 12, 1917. Serial No. 154,188. 6 Claims. (Cl. 20—2.)



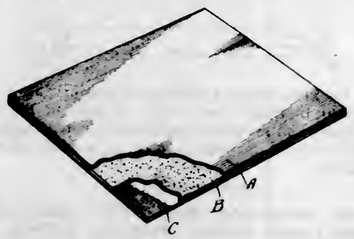
5. A portable building comprising in combination, semicircular ribs each comprising a plurality of similar parts, purlins each comprising a plurality of similar parts longitudinally arranged on the ribs, the said parts being joined together and secured to the ribs at the point of intersection of the purlins with the ribs.

1,377,501. METHOD OF MAKING PRINTING-PLATE MATRICES OR MOLDS, &c. Emil E. Novotny, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed May 20, 1916. Serial No. 98,905. 1 Claim. (Cl. 41—25.)



The herein described method which comprises applying a predetermined amount of make-ready material to a type body to insure correct printing planes for the latter, then imposing a metal sheet upon the corrected type face of the type body and applying pressure to form a matrix having a metallic molding face which is an exact reverse duplication of the printing planes of the type body, as corrected with the make-ready, then removing the matrix from the type-body and imposing upon the molding face of the matrix a body of synthetic resinous material capable of assuming a hard, set and infusible form when heated to a predetermined degree, and then subjecting the synthetic resinous body to heat and pressure against the matrix to form a hard, set and infusible printing plate having printing planes corresponding to the corrected printing planes of the type body.

1,377,502. COMPOSITE SHEET. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed May 20, 1916. Serial No. 98,909. 2 Claims. (Cl. 41—25.)



1. A composite sheet comprising a metallic facing sheet, and a cementitious backing sheet capable of assuming a hard, set and infusible form under heat and pressure, said facing sheet having its back provided with a porous coating to insure coherence of the two sheets.

1,377,503. PRINTING-PLATE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Dec. 1, 1916. Serial No. 134,323. 3 Claims. (Cl. 41—25.)



1. The herein described method of making a printing plate which comprises placing a facing sheet in contact with the printing face of a body of type, imposing a second sheet of moldable material on the facing sheet, subjecting the two sheets to pressure to impress the type faces in the facing sheet and to transfer such impression to the second sheet, removing the two contacting sheets from the type body, and then depositing a backing body of soft material against the exposed face of the facing sheet while the latter is still in contact with the second sheet, said backing body being subsequently hardened to form a permanent backing for the facing sheet, and then stripping the facing sheet with its backing body from the second sheet.

1,377,504. ELECTROTYPE PRINTING-PLATE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Dec. 1, 1916. Serial No. 134,325. 3 Claims. (Cl. 101—395.)



1. A printing plate of the class described comprising a facing sheet composed of an electrolytic shell having type characters constituting a printing face and a backing therefor including a relatively hard and set synthetic resinous material permanently united therewith.

1,377,505. RUBBER-FACED PRINTING-PLATE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Dec. 1, 1916. Serial No. 134,326. 5 Claims. (Cl. 101—395.)



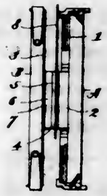
1. A printing plate comprising a rubber facing sheet having hollow type elevations and a backing sheet composed of a layer of relatively hard synthetic resin supporting said facing sheet having portions filling the hollows of the type elevations.

1,377,506. METALLIC-BACKED PRINTING-PLATE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Dec. 13, 1916. Serial No. 136,673. 3 Claims. (Cl. 101—378.)



1. A composite printing plate having a face section of hard phenolic material and a backing section therefor of non-phenolic material, and means, including complemental projections and projection-receiving openings, for permanently uniting the printing face section with the backing section.

1,377,507. EMBOSSING-DIE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Dec. 13, 1916. Serial No. 136,674. 1 Claim. (Cl. 101—28.)



An embossing die comprising male and female members, one of said members having a metallic embossing face, and a body of hard phenolic condensation material intimately united with and constituting a backing for the embossing face.

1,377,508. COMPOSITE PLATE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Dec. 30, 1916. Serial No. 139,723. 5 Claims. (Cl. 41—25.)



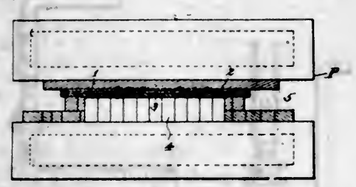
1. A composite sheet comprising an absorbent body having incorporated therein a resinous condensation product capable of assuming a state of plasticity and of assuming a hard and set condition under heat and pressure, and a facing sheet of metal united with said body.

1,377,509. PRINTING-PLATE. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed May 5, 1917. Serial No. 166,532. 5 Claims. (Cl. 101—395.)



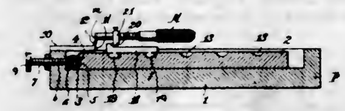
1. A composite printing plate comprising a sheet composed of compressible fiber having a cementitious binding material incorporated therewith, and a surface layer for said sheet, formed of a hard and set synthetic resin having printing characters formed therein to constitute a printing face.

1,377,510. MATRIX. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed May 5, 1917. Serial No. 166,533. 7 Claims. (Cl. 41—25.)



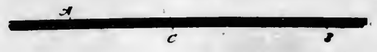
1. A matrix comprising a backing sheet of fibrous material, a surface coating composed of hard and set cementitious material constituting the molding face of the matrix, and a separating layer interposed between the backing sheet and the surface coating and adapted to prevent the penetration of the material of the surface coating into the backing sheet.

1,377,511. PRINTING-PLATE REGISTRATION. EMIL E. NOVOTNY, Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed June 1, 1917. Serial No. 172,194. 4 Claims. (Cl. 33—84.5.)



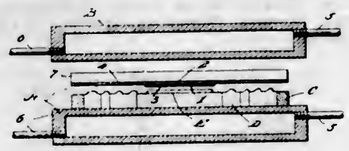
1. An apparatus for positioning a printing plate on a boss plate for registration, comprising a jig plate provided with spaced registration indications to receive the bosses of the boss plate, and against which jig plate the boss plate is adapted to lie, and a gage stop mounted adjacent the jig plate and operatively associated therewith for engaging the printing plate.

1,377,512. COMPOSITE SHEET FOR MAKING MATRICES. EMIL E. NOVOTNY, Philadelphia, Pa. Filed Oct. 29, 1917. Serial No. 198,975. 6 Claims. (Cl. 41—25.)



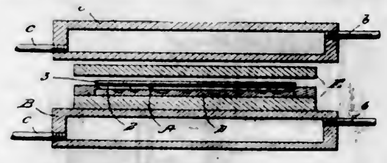
1. A composite sheet having an impression-taking face comprising a sheet of metallic foil composed of an alloy of substantially equal parts of tin and lead.

1,377,513. PRINTING-PLATE MATRIX. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Aug. 6, 1918. Serial No. 248,646. 4 Claims. (Cl. 41—25.)



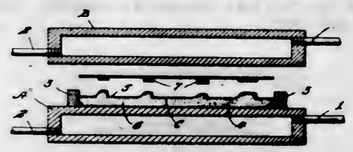
1. A printing plate matrix having a metallic molding face composed of a plurality of metallic foil sheets, both sheets presenting exposed impression-taking surfaces, and differing from each other in hardness, one of such sheets being imposed upon and adhesively attached to another of such sheets.

1,377,514. PRINTING-PLATE. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Aug. 6, 1918. Serial No. 248,647. 4 Claims. (Cl. 101—395.)



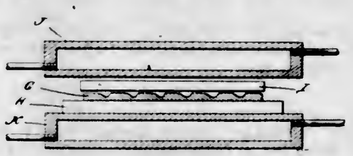
1. A printing plate comprising a facing layer of hard cementitious material having printing characters thereon, a backing layer also of hard cementitious material and an intermediate sheet of compressible material having openings therein for the passage of portions of the material of the facing and backing layers, whereby said layers will be firmly united to each other and to the intermediate sheet.

1,377,515. RECTIFICATION OF PRINTING-PLATES. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Aug. 6, 1918. Serial No. 248,648. 1 Claim. (Cl. 41—25.)



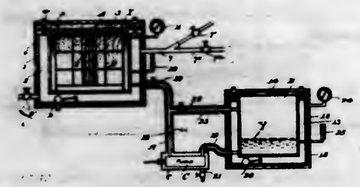
The herein described method of rectifying a molded printing plate made from a plastic substance, which consists in first molding a plate under heat and pressure for a sufficient length of time to obtain relatively hard, skin-like face and back portions and provide a printing surface for the face portions, the interior portion of the plate remaining relatively soft and capable of limited displacement under subsequent pressure, and subsequently subjecting said plate while in a heated condition to pressure to force irregularities in the hard printing face inward in the body of the plate and in opposition to the soft displaceable interior portion of such plate, and while maintaining the back portion of the plate in a substantially flat and level condition.

1,377,516. MANUFACTURE OF PRINTING-PLATES. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to J. Stogdell Stokes, Moorestown, N. J. Filed Aug. 6, 1918. Serial No. 248,649. 4 Claims. (Cl. 41—25.)



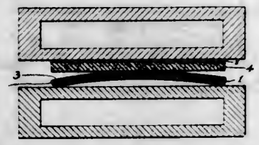
1. The herein described method of making a printing plate which comprises preliminarily heating and pressing a blank of synthetic resin material between flat surfaces to form a relatively hard skin exteriorly of the blank, the interior remaining relatively soft, then cooling the blank then subsequently placing the same in contact with the molding face of the printing plate matrix and heating both the blank and matrix, then subjecting the said blank and matrix to pressure to produce in one face of the blank printing characters complemental to those of the matrix.

1,377,517. METHOD OF AND APPARATUS FOR MOLDING PLASTIC ARTICLES. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Oct. 23, 1919. Serial No. 332,626. 4 Claims. (Cl. 18—55.)



4. An apparatus for molding and curing plastic articles comprising a container, means for supporting the articles within the container, a reservoir for containing molten metal, a pump for forcing the molten metal from the reservoir to the container, means for heating the container and the metal therein, and means for cooling the container without solidifying the metal.

1,377,518. PRINTING-PLATE. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Dec. 11, 1919. Serial No. 344,229. 9 Claims. (Cl. 101—395.)



1. A printing plate comprising a printing portion, a backing slab therefor, and a layer of phenolic treated fibrous material and a layer of cement interposed between the printing portion and the backing slab and uniting the two in a manner to prevent the warping or buckling of the printing portion.

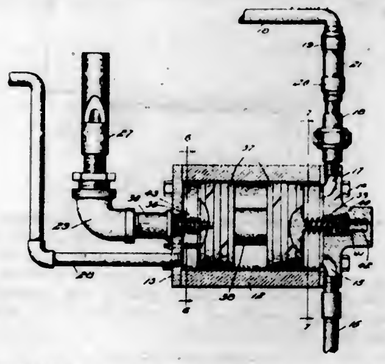
1,377,519. PRINTING-PLATE. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Nov. 2, 1920. Serial No. 421,316. 11 Claims. (Cl. 101—395.)



1. A printing plate comprising a supporting body treated with a synthetic resin containing furfural and provided with a printing face.

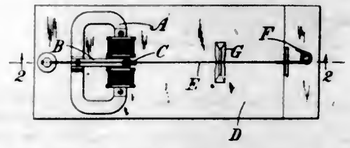
1,377,520. SIGNAL. LONNIE THOMAS PENNY, Raleigh, N. C. Filed Oct. 4, 1918. Serial No. 256,854. 8 Claims. (Cl. 116—55.)

1. In signal apparatus, the combination with a fluid pressure train pipe, of a fluid actuated signal element, and means interposed between the element and the train pipe for normally maintaining the element inoperative and adapted to be actuated upon a reduction of the pressure in the train pipe at normal train pipe pressure, said means consisting of a cylinder, a head on one end of said cylinder having a valve seat, a head on the other end of said cylinder formed with a pair of ports and a boss formed with a bore, a spring mounted in said bore, a double piston in said cylinder, a stem projecting from the outer end of one of said pistons and fitting in said spring



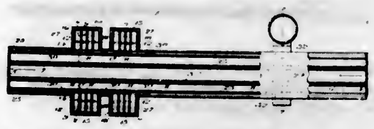
and bore, and a coupling projecting from the outer end of the other piston to engage the valve of said signal element.

1,377,521. SIGNALING APPARATUS. SERGE OULIANINE, Sydenham, London, England. Filed July 20, 1920. Serial No. 397,741. 6 Claims. (Cl. 179—171.)



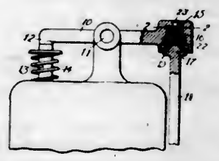
4. In a tone filter of the class described, in combination, a transmitter, a resonator, mechanical connecting means between said transmitter and resonator, and adjustable means for determining the position of the nodes of the resonator, for the purpose set forth.

1,377,522. MEANS FOR COOLING TUNNEL-KILNS. JOHN B. OWENS, Zanesville, Ohio. Filed Dec. 30, 1919. Serial No. 348,412. 14 Claims. (Cl. 25—142.)



1. A tunnel kiln provided with air circulating flues or ducts extending lengthwise within its walls opposite the space below the platform of the ware conveying means.

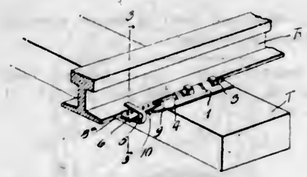
1,377,523. OVERHEAD VALVE. WILLIAM HARVEY PAYNE and PEARSON MOORE PAYNE, Washington, Pa. Filed Dec. 16, 1919. Serial No. 345,308. 3 Claims. (Cl. 123—90.)



1. In an overhead valve, a rocker arm having a tappet at one end, and a bore vertically through its opposite end

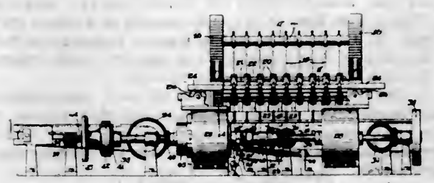
with a counterbore at its lower surface, a push rod having a central convex enlargement at its upper end, a nonmetallic contact member mounted in the bore of the rocker arm and having a lower concave surface engaging the push rod enlargement, and a spring within the counterbore around a portion of said contact member, and bearing on the upper portion of the push rod around its said enlargement.

1,377,524. TIE-PLATE. FRED QUIST, Firebaugh, Calif. Filed Oct. 7, 1920. Serial No. 415,227. 3 Claims. (Cl. 238—304.)



1. An anti-creeping device for rails comprising an apertured base plate provided with a rib on its upper face against which one edge of the rail base flange is adapted to bear, and further provided with an extension having a plurality of alined holes, a wedge member equipped with a plurality of alined holes to register with said first holes, a locking pin to extend through one of the holes in the wedge member and one of the holes in the extension, and separate and independent means for clamping the wedge member against the opposite edge of the rail base flange.

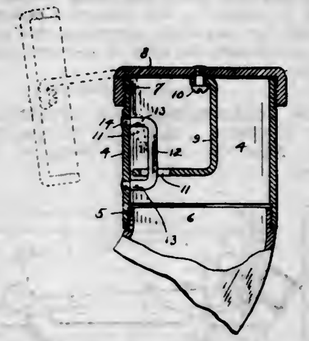
1,377,525. BRICK-MACHINE. ARTHUR ROOT, Wilkes-Barre, Pa. Filed June 9, 1917. Serial No. 173,756. 11 Claims. (Cl. 25—109.)



8. A brick machine having a wire reel, and actuating mechanism therefor, including a positive clutch, and mechanism for causing the engagement and disengagement of the clutch elements comprising a cam, a cam operated rocking lever, a shift lever actuated thereby, a cam shaft and means whereby the shaft is capable of a partial movement independently of the cam.

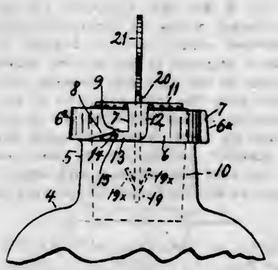
1,377,526. CONTAINER-CLOSURE. EDWIN G. RUST, Sioux City, Iowa. Filed July 24, 1919. Serial No. 313,005. 2 Claims. (Cl. 220—30.)

1. A container closure including a tube having a threaded end portion, a cap screwed thereto, an upright bar within the tube having laterally extending end portions secured to the inner periphery of the tube, whereby the bar is supported rigidly in spaced relation to the tube, and a keeper consisting of an L-shaped flat strip



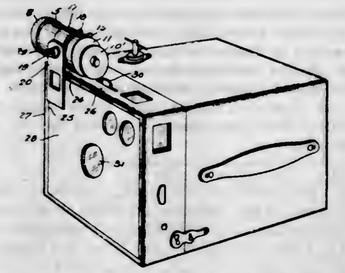
having one end pivotally secured to the cap and the other end slotted to slide upon the bar.

1,377,527. COMBINATION OF CLOSURES AND PULLERS FOR BOTTLES AND OTHER CONTAINERS. THOMAS C. SPELLING, New York, N. Y. Filed Aug. 10, 1918. Serial No. 249,312. 7 Claims. (Cl. 215—55.)



1. The combination of a locking closure for a bottle with a bottle, the bottle formed with segmental projections of the rim around the mouth, each segmental projection formed with a shoulder and, adjacent thereto, a cam face, the latter notched for engagement with a tooth on a projection of an arm of a locking device.

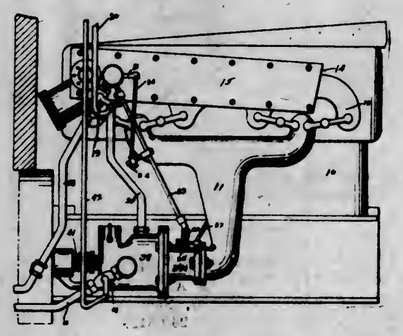
1,377,528. AUTOMATIC CAMERA-SHUTTER TRIP. CHARLES L. E. SVENDSEN, Kirkland, and CHARLES A. JOHNSON, Seattle, Wash. Filed Mar. 1, 1920. Serial No. 362,249. 2 Claims. (Cl. 161—26.)



1. The combination with a camera having a casing having openings along the top and one of the side walls thereof, and a shutter-operating lever protruding from

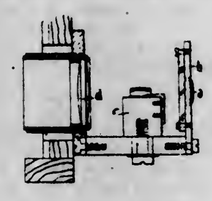
said casing, a spring actuated motor for operating said lever, and means to regulate the action of said motor, of a plate provided with rearwardly extending tongues adapted to engage in the respective camera openings, and means for detachably connecting said plate to said motor for retaining the latter in operative relations with said lever.

1,377,529. CARBURETER FOR INTERNAL-COMBUSTION ENGINES. GEORGE F. TROTTER, Des Moines, Iowa. Filed Apr. 20, 1918. Serial No. 229,857. 6 Claims. (Cl. 123—133.)



1. In a device of the class described, the combination of a heating chamber, means for introducing heat from an internal combustion engine into the heating chamber, a spraying chamber adjacent to the heating chamber, a gas chamber adjacent to the spraying chamber, and designed to communicate with the inlet manifold of an engine, a pipe communicating at one end with the spraying chamber, and having its body portion extended through the said heating chamber, and having its other end communicating with the said gas chamber, and means for introducing fuel such as kerosene into the spraying chamber.

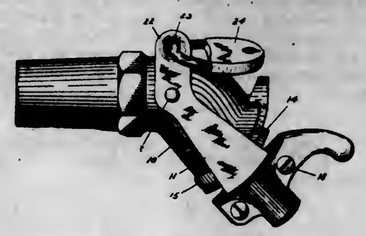
1,377,530. OPTICAL GAGING APPARATUS. FRANK TWYMAN and REGINALD PAGE WILSON, London, England, assignors of one-third to Adam Hilger Limited, London, England. Filed Dec. 10, 1919. Serial No. 343,803. 2 Claims. (Cl. 88—56.)



1. Optical projection apparatus of the kind referred to for use in gaging comprising a plurality of lenses or lens parts, a source of illumination, a condenser in association therewith, means intermediate of the lenses and condenser for interchangeably holding a test piece or standard and an object of similar form to be gaged, and a screen onto which the images produced by the lenses may be projected.

1,377,531. MOLASSES-GATE LOCK. HENRY G. VOIGHT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Aug. 18, 1919. Serial No. 318,358. 7 Claims. (Cl. 251—6.)

1. In combination, a molasses gate or spout having a discharge opening, and a yoke swiveled thereon and carrying a valve to control said opening, said yoke having a padlock opening positioned upon the side of swivel point opposite said valve, whereby said padlock opening moves



downwardly when said valve is moved upwardly to uncover the discharge opening.

1,377,532. INKING-REEL. AXEL J. WEID, Venice, Calif. Filed Jan. 20, 1920. Serial No. 352,787. 4 Claims. (Cl. 197—171.)



1. The combination, with a spool that is adapted to receive an inking ribbon, of an absorbent member saturated with an inking substance, which member is positioned on the hub portion of the spool.

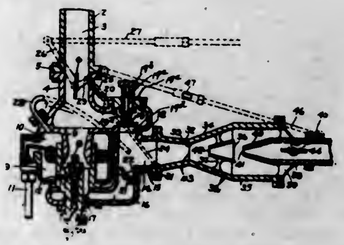
1,377,533. COLORED-SMOKE-PRODUCING COMPOSITION. EDWIN C. WEISGERBER, Washington, D. C. Filed Jan. 10, 1919. Serial No. 270,570. 2 Claims. (Cl. 52—23.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A colored smoke producing composition comprising potassium chlorate, lactose, iodin and para-nitranilin.

1,377,534. PRODUCTION OF MALEIC ACID. JOHN M. WEISS, New York, N. Y., and CHARLES R. DOWNS, Cliffside, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed June 18, 1920. Serial No. 389,827. 9 Claims. (Cl. 23—24.)

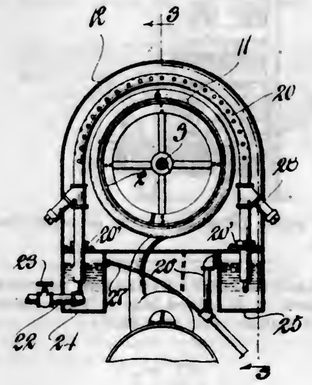
1. The process of producing maleic acid, benzaldehyde, and benzoic acid, which comprises oxidizing toluene in the vapor phase with an oxygen containing gas in the presence of vanadium oxid as a catalyst at a temperature between 400° C. and 550° C.

1,377,535. CARBURETER. ERNEST MILTON WHITE, Los Angeles, Calif. Filed Apr. 1, 1918. Serial No. 226,108. 13 Claims. (Cl. 123—119.)



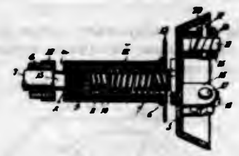
3. In a carbureter, a fresh air passage pipe having a reduced neck and a large intake opening, a funnel mounted in the intake opening, an injector mounted to discharge into the funnel, means for leading exhaust gas to the injector and a throttle for controlling the injector.

1,377,536. COFFEE-ROASTING MACHINE. FREDERICK A. WILCOX and EDWARD L. MCGROBY, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,056. 7 Claims. (Cl. 34—5.)



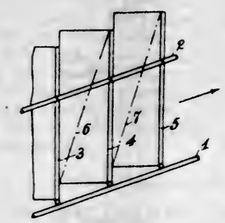
7. The combination with the revoluble, perforated roasting cylinder, the surrounding heating coil, and the air tight casing inclosing said cylinder and coil, of a series of arched tubes each having a perforated portion in the casing around the coil and the open ends of said tubes projecting through the casing bottom, a pair of spaced water seal tanks in which said open ends are immersed, a series of water pipes in said tubes opening into one tank and having a supply pipe connected to their ends in the other tank and forming with said tanks a circulation system, and means for forcing heated gases through said coil.

1,377,537. ROTARY CUTTER AND PAINT-REMOVER. HUGO WIMMER, Bath, Me. Filed Oct. 18, 1920. Serial No. 417,786. 7 Claims. (Cl. 83—64.)



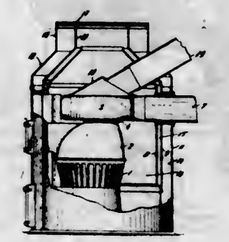
1. A cutting and cleaning tool comprising a motor, a shaft adapted to be operated by said motor, a cutter head connected to said shaft, and a series of toothed cutters mounted in said cutter head, the shafts of said cutters being radial with respect to the center of the cutter head, all of said cutters being mounted an equal distance from the center of the cutter head, the cutting teeth of one of said cutters being radial with respect to the center of the cutter head and the cutting teeth of one of said cutters being spirally arranged, whereby said spirally arranged teeth will cross-cut the cuts made by the radial teeth of the other cutter.

1,377,538. FOLDABLE AEROPLANE-WING AND THE LIKE. MAX WINCKELMANN, Kiel, Germany. Filed Oct. 25, 1920. Serial No. 419,421. 2 Claims. (Cl. 244—12.)



1. A foldable aeroplane surface having ribs and material spanned between the ribs, the material extending from one rib to the other being immovably secured to the longitudinal side of a rib, and attached to the succeeding rib in such a manner as to be capable of sliding in the longitudinal direction of the latter rib, as set forth.

1,377,539. PIPELESS HOT-AIR FURNACE FOR BUILDINGS. JUSTUS J. WOLLENHAUPT, Cincinnati, Ohio, assignor to The Monitor Stove Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 25, 1917. Serial No. 176,692. 2 Claims. (Cl. 126—99.)

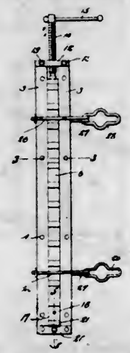


1. In a hot-air furnace, the combination of a heater having an annular radiator head, said radiator head provided with a vertical hot-air passage centrally therethrough, a plurality of casings surrounding said heater within one another and spaced from each other, providing an outer cold-air down-passage and hot-air up-passage communicating with said outer passage at the lower portion of the heater, a conical shell resting upon the top of said radiator head within the radiator diameter as a cover for said vertical air passage through the radiator and forming a hot-air dome over the heater within the inner upward hot-air passage, and a conductor pipe extending through said casings communicating with said dome for a direct heat distributing branch line leading from said heater.

1,377,540. FENCE-CLAMP. JOHN B. WOODSON, Fayette, Mo. Filed Apr. 23, 1920. Serial No. 376,034. 2 Claims. (Cl. 254—83.)

1. A fence clamp comprising a body portion; a plurality of clamping elements slidable in one direction on the body to grip the strands of a fence, mechanism for moving all of the clamping elements in said direction; and means for holding one of the clamping elements against movement in an opposite direction, thereby to maintain said element engaged with one strand of a fence while

the other clamping elements are being adjusted to other strands of the fence, the folding means being releasable



thereby to render said clamping element responsive to the action of said mechanism, along with the remaining clamping elements.

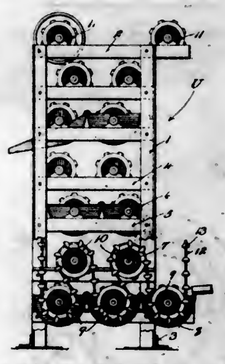
1,377,541. SANITARY STOOL-SEAT COVER. JACOB P. YOUNG, Huntington, Ind. Filed June 20, 1919. Serial No. 305,472. 1 Claim. (Cl. 4—18.)



As a new article, a sanitary appliance for water closets comprising a single sheet of foldable material, like medicated or sterilized paper, said sheet including an apertured main portion that constitutes a cover for the closet seat, a front extension that constitutes an apron for hanging over the bowl, a guard extension into the aperture adapted to fold down within the bowl at the front, a back portion that constitutes a cover for the seat lid when raised, and a flap at the outer end of the lid cover portion adapted for being clamped between the lid and the bearing against which the lid rests, the several separate portions, the apron, the seat cover, the lid cover, the flap and the guard being in longitudinal alinement, the sheet at the junction of the lid cover, the apron portion and the seat portion and the flap connection with the lid cover constituting lines on which the sheet is foldable, whereby when folded with the flap outermost the sheet opens out to drop in place over the lid, seat and bowl when the flap is secured between the lid and the bearing against which it rests when swung out.

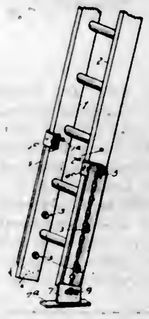
1,377,542. APPARATUS FOR TREATING ORE. OSCAR J. ZIEGLER, River Rouge, Mich. Filed Oct. 20, 1919. Serial No. 331,806. 4 Claims. (Cl. 23—31.)

1. An ore treating apparatus unit comprising a pair of pulp and solution receptacles, one being an initial receiving receptacle and the other a secondary receiving receptacle, a guide disposed adjacent the initial receptacle, another guide located over the secondary receiving receptacle, an endless conveyer trained about the guides and removing the contents from the initial receptacle and dumping them into the secondary receiving receptacle, and



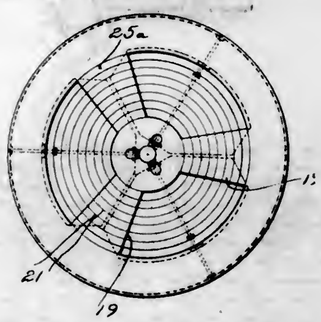
intermediate guides for directing the conveyer about the other guides.

1,377,543. LADDER-FOOT EXTENSION. OSCAR ALFRED ALM, Binford, N. D. Filed May 5, 1920. Serial No. 378,954. 4 Claims. (Cl. 228—63.)



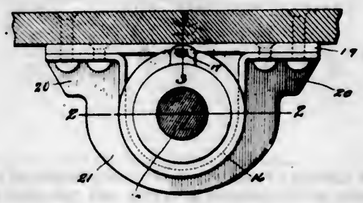
1. In a ladder, a series of bolts longitudinally spaced on the ladder legs, a pair of foot extension plates having keyholes for attachment on said bolts, and a set screw in said plates and alinable with threaded perforations of the ladder legs for clamping said plates to the legs in elevated inoperative position.

1,377,544. CENTRIFUGAL TOP. OTIS R. ANGELL, Boston, Mass. Filed June 11, 1919. Serial No. 303,310. 3 Claims. (Cl. 46—32.)



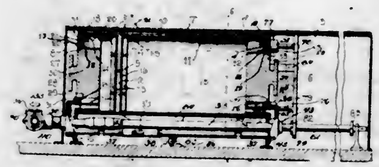
1. A centrifugal top comprising a rotatably mounted platen having openings therein alternating with web portions, radial rods borne by said platen underneath the top thereof, members mounted on said rods for movement by centrifugal force and equipped in conjunction with said platen to produce variable and changing color effects according to the speed of rotation of the top, and springs anchored to said platen and tending to draw said members radially inward against the action of centrifugal force.

1,377,545. JOURNAL-BEARING SUPPORT. FRANK S. BARKS, St. Louis, Mo. Filed July 28, 1919. Serial No. 313,859. 2 Claims. (Cl. 64—10.)



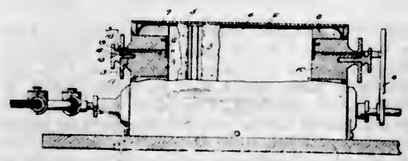
2. The hereindescribed journal bearing support comprising a pair of plates spaced apart, a substantially U-shaped member having the upper ends of its legs secured to each plate, and tie bars connecting the upper ends of the legs of one U-shaped member with the upper ends of the legs of the other member.

1,377,546. MILKING-MACHINE. JOHN C. BEEM, Sawtelle, Calif. Filed Oct. 4, 1918. Serial No. 256,846. 13 Claims. (Cl. 103—76.)



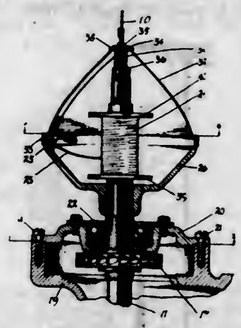
1. In a milking machine, a pump including a piston and receiving chambers at the opposite sides thereof, means for reciprocating the piston, the receiving chambers each having a combined inlet and outlet port, a valve casing, a valve movable in the casing and having sets of inlet and outlet passages and a milk inlet, and means actuated through reciprocation of the piston for simultaneously bringing the inlet passage of one set into communication with the port of one chamber and the outlet of the other set into communication with the port of the other chamber, and vice versa.

1,377,547. MILKING-MACHINE. JOHN C. BEEM, Sawtelle, Calif. Filed May 16, 1919. Serial No. 297,500. 2 Claims. (Cl. 103—76.)



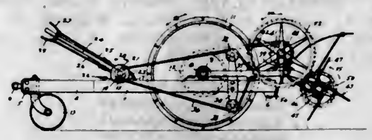
1. In milking apparatus, a milk-receiving chamber, the outer end wall of the chamber having an opening therethrough to permit access to the chamber, means for admitting milk to said chamber, means for creating suction in said chamber, a plug removably fitted in and filling the opening through the end wall of said chamber and having a longitudinal air passage therethrough eccentric to its axis, a check valve carried by the plug at the inner end of said air passage and admitting air directly into the chamber and preventing escape of air therefrom, and a concentric valve disk rotatably mounted on the outer end of the plug with its adge portion extending over the outer end of the air passage and normally closing the same, said disk having an opening through its edge portion adapted to register with the outer end of the air passage and permit flow therethrough.

1,377,548. MACHINE FOR MAKING TINSEL. REUBEN B. BENJAMIN and JAMES M. CURLESS, Chicago, Ill., assignors to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 13, 1920, Serial No. 381,189. Renewed Mar. 19, 1921. Serial No. 453,706. 10 Claims. (Cl. 28—6.)



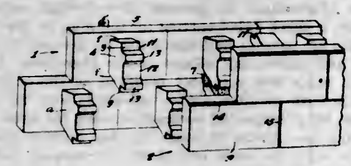
1. A machine comprising means for advancing a thread longitudinally, and means for wrapping a second thread helically around said first thread as said first thread is advanced longitudinally, said wrapping means comprising a rotatable winding head, rotatable about the axis of said first thread, means for supporting a spool of said second thread coaxially with said first thread, a rotatable housing for said spool, and means rotatable with said housing for guiding said second thread as it is unwound from said spool, said housing being conical and tapering upwardly from the lower periphery of the spool to the thread guiding means.

1,377,549. ROTARY PLOW. HARRY J. BENNETT, Phoenix, Ariz., assignor of one-third to S. J. Michelson and one-third to I. J. Lipsohn, Phoenix, Ariz. Filed July 25, 1919. Serial No. 313,322. 3 Claims. (Cl. 55—85.)



1. In a rotary plow, a wheel carrying axle, arms pivotally mounted on said axle and extending rearwardly therefrom, a rotary plow arranged for operation on the rear portions of said arms, driving connections between the axle and said rotary plow, pulleys journaled on parts of the plow frame above and below said arms, a shaft journaled on the plow frame, means for rotating said shaft and for holding it against rotation, pulleys on said shaft, and cables passing around said pulleys and around the pulleys that are positioned above and below the rotary plow carrying arms, and the ends of which cables are secured to said arms.

1,377,550. WALL STRUCTURE AND STRUCTURAL BLOCKS FOR MAKING SAME. EDWARD L. BENTON, Los Angeles, Calif. Filed Oct. 9, 1917. Serial No. 195,857. 5 Claims. (Cl. 72—39.)



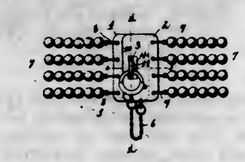
1. A structural block having an extension formed centrally on its rear face, said extension having its upper and lower faces formed Z shape and its rear face having a recess with bevel edges.

1,377,551. AUTOMATIC GOVERNOR. WALTER E. BLAINE, U. S. Army. Filed Dec. 6, 1918. Serial No. 265,612. 6 Claims. (Cl. 264—3.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



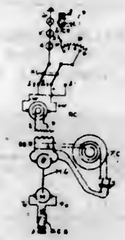
1. In an automatic governor, the combination with a manual control and a throttle connection, of a casing, a shaft mounted in said casing, a centrifugal governor carried by said shaft, a shifting member operated by said centrifugal governor, a yoke disposed in the casing and moved by the action of said shifting member and having trunnions mounted in said casing, and a connection with one of said trunnions operating in conjunction with the manual control and with the said throttle connection.

1,377,552. JEWELRY-CLASP. BERTHA BLOOM, Woodcliff, N. J., assignor to Max Schultz, Woodcliff, N. J. Filed Feb. 5, 1921. Serial No. 442,674. 1 Claim. (Cl. 24—223.)



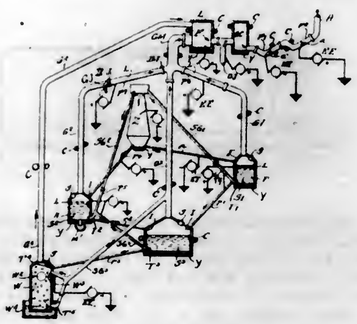
In a device of the character set forth, an inner member having an outwardly projecting staple, and an outer member having a slot and recesses adapted to receive said staple, a tongue on said outer member between such recesses, arranged to enter said staple and prevent the separation of the members, and a removable locking means received in said staple exterior to said outer member.

1,377,553. ELECTRICAL TREATMENT IN THE COMPOUNDING OF SOLIDS WITH GASES OR SOLIDS WITH SOLIDS AND GASES, INCLUDING FERTILIZERS, AND APPARATUS THEREFOR, AND THE PRODUCTS RESULTING THEREFROM. JACOB E. BLOOM, Brooklyn, N. Y. Filed Feb. 6, 1920. Serial No. 356,708. 54 Claims. (Cl. 204—31.)



1. An electrical treatment in the compounding of solids with gases, which consists in drying and pulverizing the solids, and in electrifying the solid powders and gases separately and with opposite signs and of different potentials, and thereafter compounding the same while the powdered solids are suspended and moving in the gases; all under insulated conditions and under air-free conditions.

1,377,554. PROCESS AND APPARATUS FOR THE ELECTRICAL UTILIZATION OF MOLTEN SLAGS. JACOB E. BLOOM, Brooklyn, N. Y. Filed May 3, 1920. Serial No. 378,665. 65 Claims. (Cl. 204—31.)

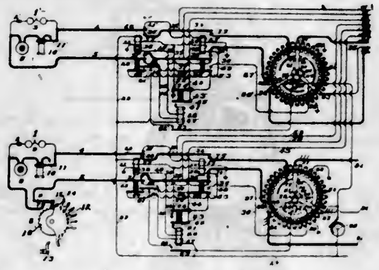


1. The process of electrically utilizing hot limpid molten slags in the compounding thereof with other materials comprising values to be recovered, which consists in suitably mixing and largely fusing the materials, in and with the slags; and simultaneously, during the mixing, electrically carrying to earth, or otherwise neutralize, the heat emitted electrons of one sign only; all under insulated conditions; and thereafter recovering the values from the mixture and from the emanations, the fumes, vapors, dust, gases or the like.

1,377,555. TELEPHONE SYSTEM. CLIFFORD C. BRADBURY, Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed May 16, 1910. Serial No. 561,766. 26 Claims. (Cl. 179—27.)

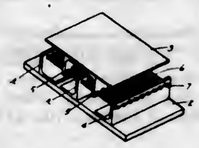
1. In a telephone system, the combination with manual and automatic telephone lines, of connecting means at the central office for establishing either manual or automatic connections with either of said lines, the establishment of an automatic connection with either of said lines being adapted to place battery potential upon the test contacts

of the manual connecting means and ground potential upon the test contacts of the automatic connecting means to indicate that the line is busy both for automatic and manual



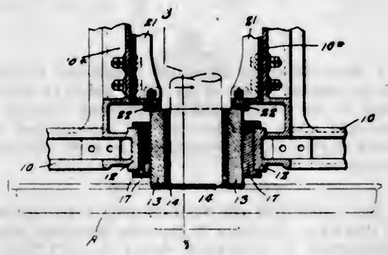
connections, and the establishment of a manual connection with either of said lines being adapted to indicate that the line is busy both for manual and automatic connections.

1,377,556. VIBRATION-ABSORBING MOUNTING. PERCY W. BRIDGMAN, Cambridge, Mass. Filed Sept. 6, 1919. Serial No. 322,227. 7 Claims. (Cl. 248—30.)



1. A vibration absorbing mounting comprising supporting and supported members having spaced opposing bearing points and a flexible tension spring extending across the bearing points, and adapted to be laterally displaced by the thrust of the supporting and supported members, exerted upon the spring at the bearing points, substantially as described.

1,377,557. LOCOMOTIVE DRIVING-AXLE JOURNAL-BOX. RAY M. BROWN, Yonkers, N. Y. Filed Nov. 3, 1919. Serial No. 335,402. 2 Claims. (Cl. 105—81.)



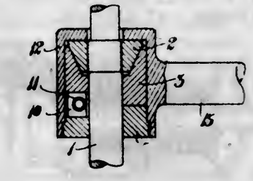
1. The combination with a locomotive frame provided with journal box openings, of flangeless journal boxes positioned in said openings, the outer projecting ends of which journal boxes are positioned adjacent to the hubs of the wheels carried by the axle that has bearing in said journal boxes, and detachable brackets disposed toward each other and secured to a part of the locomotive frame on opposite sides of the axle space for retaining the journal boxes in position within said journal box openings.

1,377,558. VACUUM-CHUCK. JOHN H. BURKE and OTTO A. WILMING, San Jose, Calif. Filed Mar. 9, 1920. Serial No. 364,590. 4 Claims. (Cl. 294—64.)



1. A chuck for the purpose specified comprising an elastic vacuum cup and a handle connected thereto and angularly adjustable with relation to the axis thereof.

1,377,559. FRICTION RATCHET-GEAR. GUNNAR ELIAS CASSEL, Stockholm, Sweden, assignor to Aktiebolaget Gyro, Stockholm, Sweden, a Corporation of Sweden. Filed Feb. 17, 1920. Serial No. 359,479. 3 Claims. (Cl. 74—53.)



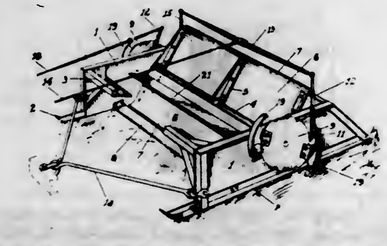
1. In a friction ratchet gear the combination with a shaft, of an anular driving element loosely mounted on the shaft and having a helicoidal friction surface, an annular driven element secured to the shaft and having a conical friction surface, an annular element mounted between said friction surfaces for interlocking said driving and driven elements, and a sleeve inclosing said elements and said member, said sleeve being rigidly secured to the said driving element.

1,377,560. BROOM. VICTOR E. CLARK, Grand Rapids, Mich. Filed Sept. 3, 1918. Serial No. 252,423. 3 Claims. (Cl. 15—19.)



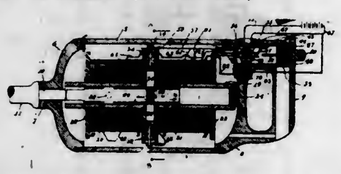
3. A broom comprising a handle, a brush provided with an outer projecting band rigid with the brush, a clamp consisting of two parts or members pivoted together at opposite sides of the handle and adapted to swing inwardly and outwardly and having inwardly extending flanges to engage beneath the said band, said parts or members being also provided with inwardly extending lugs spaced from the said flanges and arranged to engage over the band and means for holding the said parts or members firmly in engagement with the band and brush.

1,377,561. SCRAPER. JOHN M. CONLEY, Stockton, Calif. Filed Feb. 3, 1920. Serial No. 356,031. 8 Claims. (Cl. 37—42.)



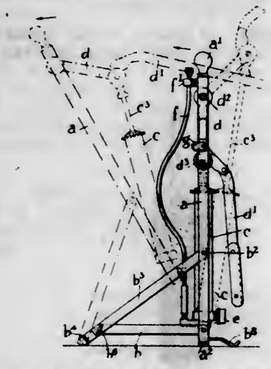
1. A scraper comprising side frames adapted to rest on the ground, dirt retaining and scraping plates pivotally mounted between the frames and adapted to have the scraping edges thereof positioned at different horizontal levels relative to the bottom of the frames, and a rigid scraping member mounted between the frames ahead of the plates.

1,377,562. ELECTRIC HAMMER. FREDERICK W. DAVEY, Brooklyn, N. Y. Filed Sept. 19, 1919. Serial No. 324,755. 13 Claims. (Cl. 172—126.)



1. In combination, a plunger reciprocatable within limits, solenoid means for reciprocating said plunger; and means for moving the plunger when in a neutral position between said limits for reciprocation by said solenoid means.

1,377,563. TIRE-INFLATING PUMP. THOMAS MORRIS DAVIES, Llanelly, Wales. Filed Sept. 21, 1920. Serial No. 411,759. 9 Claims. (Cl. 230—27.)



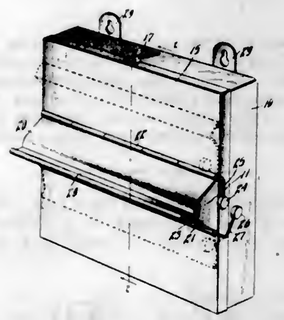
1. An air pump having in combination a standard, a handle at the upper end of the standard, a pump barrel pivoted near to the lower end of the standard, a hand lever pivoted near to the upper end of the standard and pivoted intermediate of its ends to the pump rod, said handle extending and operating on one side of the standard and a base fixed to said standard and extending substantially on the opposite side of the standard to that on which the hand lever extends, said base being adapted to allow the whole apparatus to rock on the outer end thereof substantially as set forth.

1,377,564. PHOTOGRAPHIC EXPOSURE-METER. WALRAM DERICHSWEILER, Zurich, Switzerland, assignor, by mesne assignments, to Fabrique d'Horlogerie Recta, S. A., Biel, Switzerland, a Corporation. Filed Apr. 14, 1917. Serial No. 162,214. 12 Claims. (Cl. 95—10.)



1. In a photographic exposure-meter including sensitive paper, a member for protecting said paper against the action of light and having a transparent portion, and a mechanism adapted to effect a relative displacement between said paper and said protecting member, and to positively limit such displacement to a definitely limited angle.

1,377,565. SHEET-PAPER DISPENSER. HORACE P. DICKERSON, Memphis, Tenn., assignor of one-half to Ferris D. Fisk, Memphis, Tenn. Filed June 5, 1920. Serial No. 386,689. 5 Claims. (Cl. 211—29.)

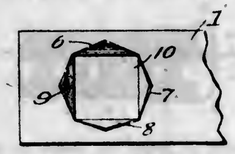


3. A sheet dispensing apparatus comprising, a housing having an opening in one of its sides, means to maintain a hump of the sheet material extending through the opening and above the lines of the housing and automatically closing covers proportioned to meet and inclose the hump.

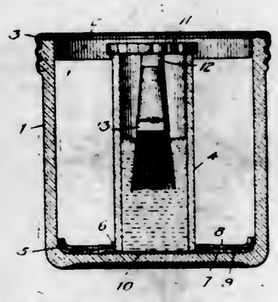
1,377,566. METHOD OF ENHANCING THE GROWTH OF PLANTS. CHARLES F. ECKART, Honolulu, Hawaii. Continuation of application Serial No. 325,721, filed Sept. 23, 1919. This application filed Mar. 26, 1921. Serial No. 455,869. 7 Claims. (Cl. 47—36.)

1. The method of enhancing the growth of plants which comprises superimposing on the ground a flexible covering of opaque heat absorbing material adapted to distribute the absorbed heat to the soil, planting the plant producing stock through the covering, and maintaining the covering in place during the growth of the plants.

6. The method of enhancing the growth of plants which comprises superimposing a covering on the ground until the weed seeds and bulbs are germinated and exterminated, slitting the covering to form flaps, bending the flaps with relation to the covering to produce an exposed planting area and to afford a changeable protecting medium for the young plants, and planting the plant producing stock in said planting area.



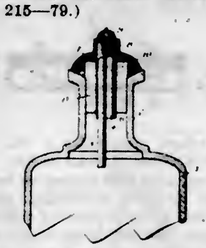
1,377,567. PASTE-RECEPTACLE. WILLIAM F. ELLIS, Baltimore, Md., assignor to The Standard Manufacturing Company, Baltimore, Md., a Corporation of Maryland. Filed Apr. 17, 1920. Serial No. 374,655. 8 Claims. (Cl. 91—67.1.)



1. A paste receptacle involving a jar, an independent tube having open ends, said tube constituting a water well within the jar opening into the jar at the bottom thereof, and an absorbent flexible sheet disposed at the bottom of said jar and having an opening into which the lower end of said tube extends.

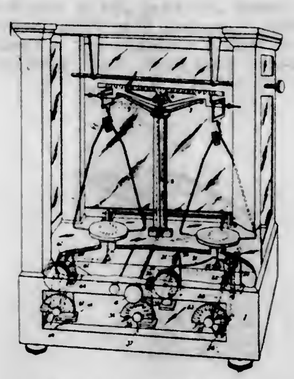
8. A paste receptacle involving a jar, a tube forming a water well within said jar and adapted to receive a brush, and a flat topped disk forming a closure for the upper end of said tube, said closure being adapted for the attachment of a brush thereto, and a flat top closure for the paste jar or receptacle.

1,377,568. DISPENSING-BOTTLE CLOSURE. WILLIAM F. ELLIS, Baltimore, Md., and ARLINGTON J. GARLAND, Washington, D. C., assignors to The Standard Manufacturing Company, Baltimore, Md., a Corporation of Maryland. Filed May 13, 1920. Serial No. 381,009. 4 Claims. (Cl. 215—79.)



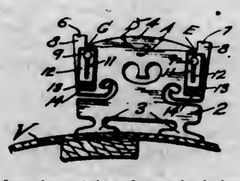
1. A bottle closure provided with tubular means having a passage for the admission of air and a passage permitting the flow of liquid from the bottle, a pliable cupped apron surrounding said tubular means, said apron being adjustable longitudinally of said tubular means, the periphery of said apron being adapted to engage the flaring lip at the mouth of the bottle, means for closing the passages of said tubular means, and a compressible plug encircling said tubular means on the cupped side of said apron.

1,377,569. METHOD OF AND APPARATUS FOR RAPID WEIGHING IN ANALYTICAL BALANCE. CHARLES J. EMERSON, Providence, R. I., and PERCY W. BRIDGMAN, Cambridge, Mass., assignors to Emerson Apparatus Company, Boston, Mass., a Corporation of Rhode Island. Filed Dec. 27, 1915. Serial No. 68,637. 14 Claims. (Cl. 265—54.)



1. In a weighing apparatus, a balance comprising a beam and pans, a plurality of independent mechanical means, each having an indicator and each reading in different related units, effectively disposed so as to engage and disengage at will with said balance, and so as to indicate the state of unbalance therein.

1,377,570. VIOLIN-BRIDGE. HENRY F. FISHER, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,348. 5 Claims. (Cl. 84—309.)



3. A bridge for stringed musical instruments played with a bow having an edge provided with spaced string seats, in which the strings may be placed in an arc, and other seats in which certain strings may be placed to bring all the strings on a common plane and means for shifting said certain strings from one seat to another to bring the strings in an arcuate or straight relation.

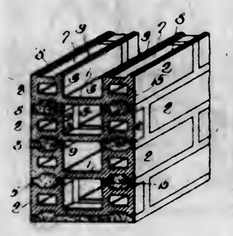
1,377,571. SHOULDER-PAD FOR VIOLINS, &c. HENRY F. FISHER, Los Angeles, Calif. Filed Mar. 30, 1920. Serial No. 369,973. 4 Claims. (Cl. 84—281.)



1. A violin supporting pad curved to conform to and adapted to rest upon the shoulder strips extending later-

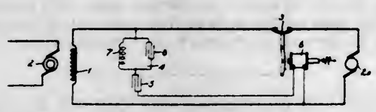
ally from said pad and arranged to be folded respectively back over the edge of the outer garment of the user above said shoulder pad to provide a protective covering, and inwardly beneath the user's inner garment to form retaining means.

1,377,572. CORED CHANNEL-BRICK AND WALL CONSTRUCTION. JONATHAN P. B. FISKE, Newton, Mass., assignor to Fiske & Company, Inc., a Corporation of Massachusetts. Filed July 8, 1916. Serial No. 108,159. 1 Claim. (Cl. 72—39.)



Hollow wall construction comprising twin walls composed of a plurality of channel bricks, each brick having a pair of wall sections connected by a body portion extending from one wall section to the other across the inner air space, and disalined from the horizontal center of the brick, each wall section having a cored portion and two channel portions, at opposite sides, said channel portions comprising a mortar-receiving recess and a pair of spaced ribs, and mortar filling adjacent recesses of super-imposed brick and extending across the edges of the pairs of ribs of each channel, said mortar course being interrupted by the central air space extending from the body portion of one brick to the body portion of the superimposed brick in the wall.

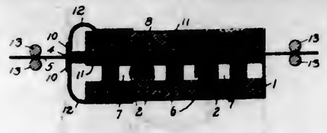
1,377,573. CIRCUIT-INTERRUPTING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1916. Serial No. 124,053. 17 Claims. (Cl. 175—294.)



4. An interrupter for an alternating-current circuit comprising a parallel-resonant circuit tuned to the normal frequency of the alternating-current circuit, and a condenser and a trip coil connected in series with the resonant circuit, the circuit, thus constituted, being connected to the alternating-current circuit, the said condenser being of such periodicity that it discharges under predetermined conditions.

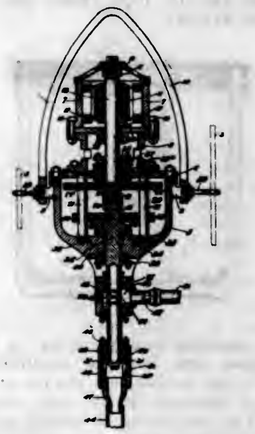
1,377,574. METHOD OF AND APPARATUS FOR ANNEALING SHEETS OF METAL. FRANCIS C. FRARY, Oakmont, Pa., assignor to Aluminum Company of America, a Corporation of Pennsylvania. Filed Dec. 8, 1919. Serial No. 343,240. 7 Claims. (Cl. 148—10.)

1. The method of continuously annealing sheet metal, consisting in passing it through an alternating magnetic field whose lines of force cut transversely through the sheet, and thereby inducing in the metal eddy currents of



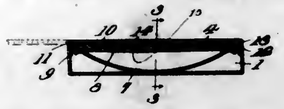
sufficient intensity to cause the metal to be uniformly heated to an annealing temperature during its passage through said field.

1,377,575. ROTARY WELL-DRILLING APPARATUS. EDGAR E. GREVE, Bellevue, Pa. Filed Dec. 22, 1919. Serial No. 346,664. 4 Claims. (Cl. 255—19.)



1. In a rotary drilling apparatus, the combination with a drill pipe, of a combined motor and water swivel structure including a motor shaft, a swivel stem, reducing gearing interposed between the shaft and stem and connecting the same, and mechanism connecting a drill pipe section and the swivel stem, said mechanism including means for permitting an independent vertical movement of the pipe section relatively to the swivel stem.

1,377,576. TICKET-HOLDER. FRANK H. HAMMERLE, Wilmerding, Pa. Filed Apr. 25, 1919. Serial No. 292,576. 3 Claims. (Cl. 206—40.)



1. A ticket holder comprising a case provided with a slidably mounted cover having means for limiting the movement thereon, said case having an opening at one end, a spring support mounted within said case for supporting the ticket therein, a lug formed on one end of the cover adapted to engage the end of the ticket and a lug formed on said cover adapted to close said opening when said cover reaches its limit of travel on said case.

1,377,577. MEASURING-CAN. THURE HANSON, Worcester, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me., a Corporation of Maine. Filed Feb. 20, 1919. Serial No. 278,142. 6 Claims. (Cl. 73—166.)

1. A measuring can having a body and a neck, said neck having a slot in the wall thereof, a translucent gage

mounted to close said slot from leakage, the rear of said gage being adapted to be in contact with the contents of



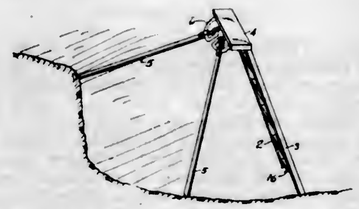
said can, said gage being adjustable vertically whereby it may be adjusted at any time to measure accurately the contents of said can.

1,377,578. COMBINED CLIP AND THERMOMETER-CARRIER. HUGH H. HARRIS, Alexandria, Va. Filed Sept. 9, 1920. Serial No. 409,142. 7 Claims. (Cl. 120—84.)



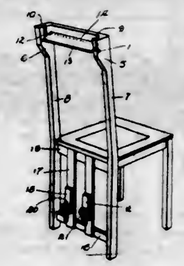
5. A device of the character described; comprising a supporting and gripping member having a clamp at one end and a tongue extending from said clamp and having an opening near its lower end, and its lower extremity turned inwardly and upwardly upon itself; and a thermometer having its stem inserted and confined in said opening by the upturned extremity of the tongue, substantially as described.

1,377,579. STEPLADDER. FRED F. HEDDEN, Los Angeles, Calif. Filed Jan. 9, 1920. Serial No. 350,465. 4 Claims. (Cl. 228—31.)



1. A step ladder having a step frame, legs universally hinged to said frame to move independently of each other, and means to lock said legs in lateral adjustment.

1,377,580. TROUSERS-STRETCHER. OSCAR BERNHARD HELLSTROM, Neutral Bay, Sydney, New South Wales, Australia. Filed Oct. 21, 1920. Serial No. 418,536. 1 Claim. (Cl. 223—19.)



In combination with a supporting element, brackets thereon, a transverse bar mounted in the brackets for vertical sliding movement and also for partial rotation, said bar being adapted to hold one end of a pair of trousers, a plurality of clamps adapted to hold the opposite end of the trousers, said clamps being each hinged at its lower end to said supporting element for vertical swinging movement and having a vertical slot, arms projecting from the supporting element through said slots, and cams pivotally mounted on said arms and bearing against the outer sides of the said clamps.

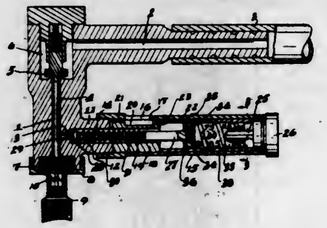
1,377,581. ENGINE. EINAR HILTON, Vancouver, British Columbia, Canada. Filed Mar. 11, 1920. Serial No. 364,932. 1 Claim. (Cl. 123—51.)

An engine comprising a main cylinder, outer cylinder heads closing the ends of said cylinder, inner cylinder heads spaced apart from one another and from said outer heads to define a plurality of smaller cylinders within said main cylinder, said inner cylinder heads being circumferentially reduced on opposite sides thereof to form stepped projections, cylinders slidable between said heads and pocketed to receive the smaller of said projections, the larger of said stepped projections of each head being arranged to define a compression space in conjunction with the surrounding wall of the main cylinder, a sleeve like piston rod extending through certain of said heads and connected to certain of said pistons, a second piston rod extending through said first-mentioned rod and through the remaining inner heads and connected to the remaining pistons.

1,377,582. AUTOMATIC TIRE-GAGE. EDWIN R. HOOKER and ERIC C. KAUSRUD, Los Angeles, Calif. Filed May 27, 1920. Serial No. 384,780. 4 Claims. (Cl. 152—11.5.)

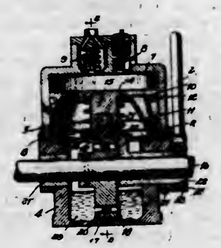
1. The combination with a filling valve, of a pressure gage comprising a casing, a passage leading from said filling valve to said casing, a valve for closing said passage, an opening communicating with said passage beyond said valve, means for yieldably closing said valve, a rotatable member engaging said yieldable closing means for adjusting the tension of the same, and means for longi-

tudinally adjusting said rotatable member by rotating the same, said casing having an opening therethrough and



graduations upon said rotatable member arranged to successively appear beneath said opening when said rotatable member is rotated to denote the adjustment of said gage.

1,377,583. FLUID-COMPRESSOR. SAMUEL H. HUMAN, Chicago, Ill. Filed June 5, 1916. Serial No. 101,731. 4 Claims. (Cl. 230—27.)



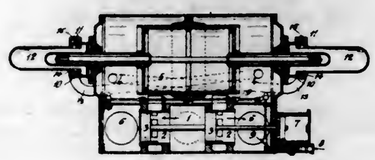
1. In a fluid compressor the combination of a casing provided with a working cylinder, a piston reciprocable therein, said piston having a hollow side opposite the working chamber of the compressor, an inverted U carried by the casing and arranged to extend into the hollow portion of the piston, said U being provided with an aperture located co-axial with the piston, a central stud carried by the piston and extending through the aperture in the U member, a flange provided on the outer end of the stud, a helical compression spring disposed around the stud and between the U and the flange, and means for moving the piston against the tension of the spring, the spring serving to impart movement to the piston in the opposite direction.

1,377,584. SPINDLE FOR DUPLICATING-MACHINES AND THE LIKE. ALBERT ISAACS, New York, N. Y., assignor to Beck Duplicator Company, a Corporation of New York. Filed Oct. 4, 1917. Serial No. 194,822. Renewed Feb. 18, 1921. Serial No. 446,107. 3 Claims. (Cl. 242—68.)



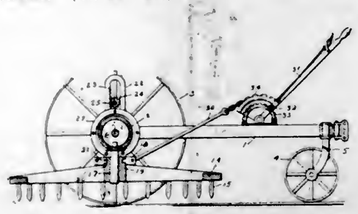
1. In a spindle, the combination with a tube adapted to have rolled or stored thereon a duplicating film or the like and provided at each end with a chuck-engaging member; of a shaft shorter than said tube and extending longitudinally therethrough and slidable therein, whereby only one end of said shaft may always project from said tube and form a bearing pin upon which that end of the spindle may rotate, whereby said spindle is adapted to be interchangeably reversed end for end, substantially as herein set forth.

1,377,585. HYDRAULIC TRANSFORMER. REIERT JOHANSON, Odda, Hardanger, Norway. Filed July 18, 1919. Serial No. 311,796. 4 Claims. (Cl. 103—67.)



1. A hydraulic transformer, comprising a low pressure cylinder; a high pressure cylinder at each end of the low pressure cylinder, both high pressure cylinders communicating with the low pressure cylinder to receive fluid therefrom; a differential piston embodying a low pressure section operating in the low pressure cylinder and a pair of high pressure sections operating in the high pressure cylinders, the high pressure sections serving to pump to a higher pressure the fluid supplied to the high pressure cylinders from the low pressure cylinder by the low pressure sections; and fluid supply and exhaust means associated with the low pressure cylinder.

1,377,586. ROTARY HARROW. ALASKA O. JONES, Kokomo, Ind. Filed Jan. 26, 1920. Serial No. 353,943. 4 Claims. (Cl. 55—20.)



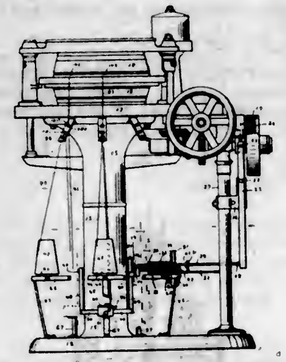
1. In a harrow construction, a revolving frame including a central hub, said hub having a circumferential channel adjacent its upper end, a collar surrounding the upper end of said hub, a tongue on said collar adapted to enter said channel, a rod connected at one end to said collar, and a lever to which the opposite end of said rod is connected for regulating the angle of said frame.

2. A harrow construction including an axle, driving wheels on said axle, a driving gear on said axle, a pinion coöperating with said gear, a shaft carrying said pinion, a frame slidable on said shaft, cultivating means carried by the frame, a casing inclosing said gear and pinion and swinging on said axle coincident to the swinging movement of the frame, and means carried by the casing for raising and lowering said frame.

1,377,587. STOP-MOTION DEVICE. HUGH S. JONES, New York Mills, and ARTHUR P. CULLINAN, Utica, N. Y., assignors to Utica Knitting Company, Utica, N. Y., a Corporation of New York. Filed Sept. 7, 1917. Serial No. 190,154. 16 Claims. (Cl. 66—7.)

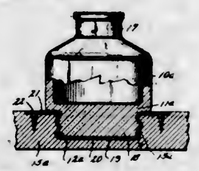
1. In a stop motion device, the combination of a motor member normally inactive but adapted when released to bring into operation the means for stopping the machine, a movably mounted releasing member adapted on moving forward to release said motor member, a pressure-exerting member operatively connected to said releaser and adapted to force it forward or backward according to whether said releaser is forward or backward of a central position relative to the tension of said pressure-exerting

means, said releaser being normally positioned slightly back of said central position whereby the pressure-exerting means holds the releaser back in normal position, but



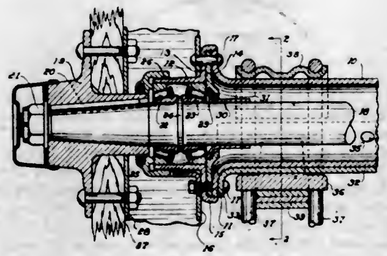
will move it forward upon said releaser being moved forward past center and a trigger adapted when liberated to move said releaser forward past center.

1,377,588. INK-BOTTLE. MARY LOUISE KAYSER, Tyler, Tex. Filed Mar. 18, 1920. Serial No. 366,753. 1 Claim. (Cl. 120—58.)



In a bottle, a cylindrical wall, a neck formed on the upper end of said wall adapted to receive a stopper, a bottom formed on the other end of said wall, said bottom having a section of smaller diameter than that of said wall, screw threads formed on said section, a collar provided with screw threads adapted to engage the screw threads of said section, said collar being adapted to be screwed into a recess in a desk, a bottom formed on said collar, and an outstanding annular flange formed on said collar adapted to be secured to said desk.

1,377,589. AXLE. WALTER C. KEYS, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 16, 1919. Serial No. 297,677. 13 Claims. (Cl. 180—88.)



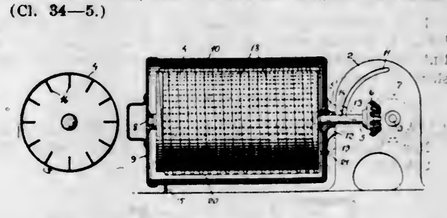
4. In axle construction, the combination of a housing having a tubular end portion of circular cross-section and a flange at the end thereof, a member arranged on said end portion of the housing and having at one end a portion conforming to the exterior of the housing and secured thereon, an intermediate portion having substantially flat exterior faces and a flange at the other end abutting said flange on the housing, and means for securing said flanges together.

1,377,590. VALVE. HENRY P. KRAFT, Brooklyn, N. Y., and MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Feb. 17, 1909. Serial No. 478,345. 8 Claims. (Cl. 152—11.5.)



1. In a pressure indicating tire valve, the combination of a tube, a valve shell adapted to have movement longitudinally in said tube, having an extension at its lower end of two reduced diameters, the lower portion of the extension being of less diameter than the portion above it, an elastic tube connected to one reduced portion of said shell and to said tube, and a coiled spring connection between the other reduced portion of said shell and said tube, whereby said elastic tube may be connected to said shell independently of said coiled spring connection.

1,377,591. ROASTER. FRED J. KUHLEMEIER and RALPH J. QUELLE, Burlington, Iowa; said Quelle assignor to said Kuhlemeier. Filed June 6, 1918, Serial No. 238,530. Renewed Oct. 13, 1920. Serial No. 416,779. 3 Claims. (Cl. 34—5.)

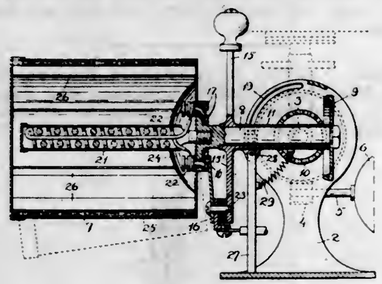


1. In a roaster, a standard, a non-rotatable casing, a rotatable oven in said casing, the latter having pivotal connection with said standard and adjustable upon said connection with the oven to upstanding loading position and to normal horizontal position, the oven having perforated side walls, and heating means located between the oven and the casing.

1,377,592. ROTATABLE OVEN. FRED J. KUHLEMEIER and FRED MEYER, Burlington, Iowa; said Meyer assignor to said Kuhlemeier. Filed May 11, 1918, Serial No. 233,995. Renewed Nov. 24, 1920. Serial No. 426,308. 4 Claims. (Cl. 34—21.)

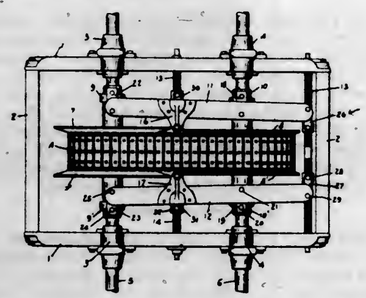
1. In a roaster, a standard, a tubular receptacle having pivotal connection with said standard, and means for heat-

ing the receptacle comprising an electric heating element central and longitudinal of the oven and supported from one end thereof, binding posts for the conducting wires of said element and carried by said end of the oven, contact



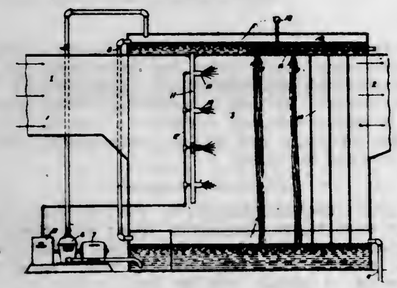
plates for said posts, supply brushes contacting with said plates, said oven adjustable upon said pivotal connection to upstanding loading position and to normal horizontal position without disturbance of the contact between said brushes and said plates.

1,377,593. VARIABLE-SPEED TRANSMISSION. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Mar. 18, 1920. Serial No. 366,747. 5 Claims. (Cl. 64—8.)



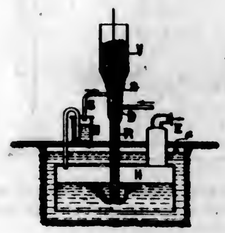
1. A variable speed transmission including a shifting lever, a shifting screw at one end of said lever, and a link for pivotally connecting the end of said lever to said shifting screw.

1,377,594. AIR-HUMIDIFIER. ADOLPH W. LISSAUER, New York, N. Y. Filed Dec. 22, 1917. Serial No. 208,469. 5 Claims. (Cl. 183—23.)



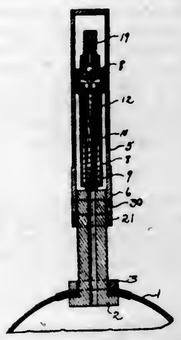
4. An air humidifier comprising in combination an air chamber through which an air current can be created, means for supplying to the air current a water mist, a separator, and means for supplying water in a less divided condition to the current of air and mist, at a temperature of the water mist, said water being supplied in a direction transversely of the air current and mist.

1,377,595. ACETYLENE-GENERATOR. ERNST LUDER, Visp, Switzerland, assignor to Usines Electriques de la Lonza, Gampel, Switzerland. Filed Apr. 2, 1919. Serial No. 287,047. 1 Claim. (Cl. 48—38.)



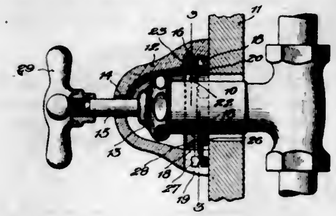
An acetylene generator comprising a carbid receptacle having a delivery opening, a generating chamber below the receptacle and adapted to be partially filled with water, a vertical tube leading from said opening to the lower part of said chamber, a downwardly directed water nozzle arranged in the tube directly under the opening, a communication between the top of said chamber and the tube above said nozzle and a pressure reducing means in the communication.

1,377,596. COMBINED TIRE-VALVE AND PRESSURE-INDICATOR. JULIUS MANY, New York, N. Y. Filed July 26, 1920. Serial No. 398,966. 5 Claims. (Cl. 152—11.5.)



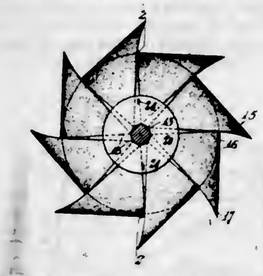
1. In combination, a base portion, means for securing it to the inner tube of a tire, a scale connected to said base portion, a slidable member mounted to slide to and fro on said base portion, a resilient member having resiliency in a direction transverse to the movement of said slidable member, means for securing it to said base portion, and means intermediate said slidable member and said resilient member whereby the movement of the slidable member affects the transverse contour of said resilient member, and connections intermediate said slidable member and said inner tube whereby the pressure of the air in said inner tube tends to actuate said slidable member.

1,377,597. ADJUSTABLE ESCUTCHEON. PHILIP MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 12, 1919. Serial No. 337,488. 12 Claims. (Cl. 285—30.)



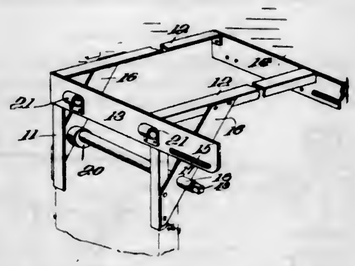
1. In a wall fitting, a shank; and an escutcheon retaining member having an opening for receiving said shank and also having a resilient pin forming a chord of a small arc of the opening thereof, said pin between its ends being in frictional engagement with said shank.

1,377,598. FINISHING-WHEEL. CESARE PAOLI, Los Angeles, Calif., assignor of one-half to Gordon F. Gillespie, Los Angeles, Calif. Filed July 12, 1920. Serial No. 395,513. 6 Claims. (Cl. 51—190.)



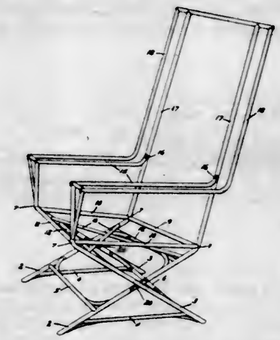
2. A finishing wheel comprising a disk, a pad of yielding material secured to said disk extending over the periphery thereof, a series of sheets of abrasive coated material over said pad, each sheet having an end extending tangentially away from said pad and means for clamping said sheets to said disk.

1,377,599. MOVABLE AND ADJUSTABLE STUDY-CHAIR. GEORGE PERIN, Syracuse, N. Y. Filed Aug. 22, 1917. Serial No. 187,635. 1 Claim. (Cl. 155—128.)



In a movable and adjustable study chair having a vertically disposed standard, a rectangular frame having vertically disposed angle irons embracing said standard and slidably mounted thereon, braces connecting the frame to said angle irons provided with bearings, a shaft mounted in said bearings, cams carried by said shaft for embracing said standard for locking said frame in adjusted position thereon and a top carried by said frame.

1,377,600. ROCKING-CHAIR. AUSTIN H. PRESE, Los Angeles, Calif. Filed Oct. 27, 1919. Serial No. 333,640. 2 Claims. (Cl. 155—77.)

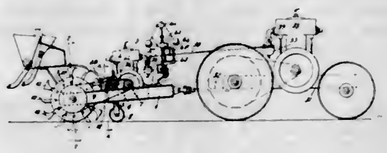


1. A chair having diagonally disposed crossed side legs formed of resilient material and braced against relative movement above and below the crossing points of said legs, the upper forward portions of the rear legs being extended upward to form arm supports, the rear upper portions of the front legs being extended upward to form a back supporting structure, a seat supporting frame arranged between the upper portions of said crossed legs and wear plates arranged on the inner faces of the diagonally disposed legs adjacent to the points where the same cross each other.

1,377,601. PROCESS OF RECOVERING USEFUL SUBSTANCES FROM MINERALS AND ROCKS CONTAINING POTASSIUM. OYSTEIN RAVNER, Christiania, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway, a Business Entity. Filed Feb. 24, 1919. Serial No. 278,763. 9 Claims. (Cl. 23—22.)

1. The process of recovering useful products from rocks or minerals containing combined potassium, which comprises heating the said rocks or minerals with ashes of marine plants until a soluble compound of potassium is formed.

1,377,602. SOIL-CULTIVATOR. ROBERT ALEXANDER RUTHERFURD, New York, N. Y. Filed Apr. 11, 1918. Serial No. 227,951. 8 Claims. (Cl. 97—71.)

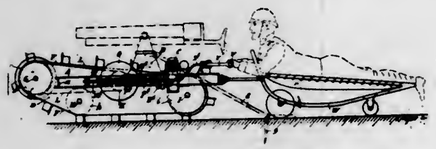


8. In a soil-cultivator, in combination, a trailer, revoluble soil-cutters carried by the trailer, an internal combustion engine for revolving the soil-cutters, a tractor attached to the trailer, an internal combustion engine for moving the tractor and means whereby the amounts of combustible material fed to the two engines act together to maintain a uniform revoluble movement to the soil-cutters.

1,377,603. MOTOR-VEHICLE FOR THE TRANSPORT AND OPERATION OF SMALL-CALIBER GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,484. 9 Claims. (Cl. 180—9.2.)

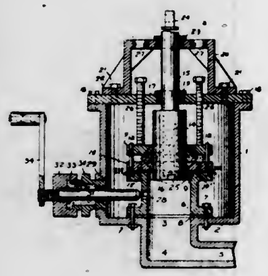
1. In a transport vehicle, a supporting frame, track-trucks mounted on opposite sides of the supporting frame

to propel the vehicle, a motor on the supporting frame having a driving connection with each track-truck, speed and direction changing mechanism interposed in the driving connection between the motor and each track-truck, a rocking beam pivoted intermediate of its ends to a member shiftably mounted on the rear part of the supporting



frame, said rocking beam being connected at each end with one of the speed and direction changing mechanisms, and a control lever extending rearward from the rocking beam and operative to move said beam to change through the intervening mechanism the speed or direction of either or both of said track-trucks.

1,377,604. DIE-CASTING MACHINE. PERCY L. SIBOLE, Swissvale, Pa. Filed Mar. 5, 1920. Serial No. 363,607. 9 Claims. (Cl. 22—70.)



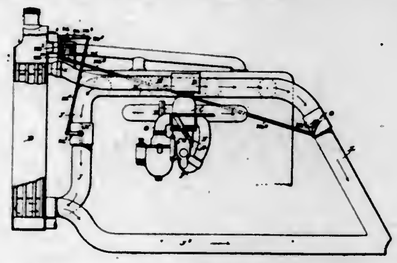
2. In a die casting machine, a tank to contain molten metal, a chamber having its interior in controlled communication with the interior of the tank, a plunger reciprocable through an opening in the chamber and spaced laterally from the chamber, and a packing closing the opening between the tank and the plunger and adjustable to fit the plunger tightly.

1,377,605. RECLINING-CHAIR. GEORGE L. STARKS, Harriettstown, N. Y. Filed Feb. 2, 1921. Serial No. 441,810. 3 Claims. (Cl. 5—12.)



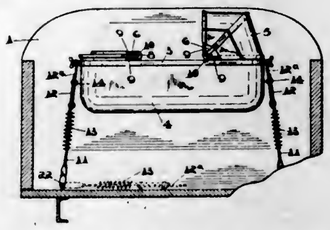
1. In combination, a main frame; a skeleton spring support, made up of cross members, spaced apart by hinged side members; a multiplicity of actuating plates loosely connected to the cross-members adjacent the hinges; an arch, mounted for rotation in the main frame, beneath the actuating plates; means to actuate the arch to lift the actuating plates and their connected cross-members.

1,377,606. SYSTEM OF CARBURATION. JOHN W. SWAN, Stamford, Conn. Filed Sept. 18, 1918. Serial No. 254,599. 12 Claims. (Cl. 123—122.)



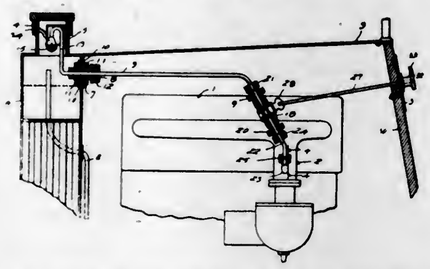
1. The combination with the carbureter and intake manifold of an infernal combustion engine, of means for conducting heated air into proximity with the manifold to heat the same and then delivering said heated air to the carbureter, and a radiator through which the air is admitted and by which the air is initially heated, and means for regulating the temperature of the radiator.

1,377,607. CRIB ATTACHMENT FOR MOTOR-CARS AND THE LIKE. HERBERT TAYLOR, Hamilton, Ontario, Canada, assignor of one-half to Thomas H. Barnard, Hamilton, Ontario, Canada. Filed Aug. 4, 1919. Serial No. 315,132. 3 Claims. (Cl. 5—59.)



1. A crib attachment for motor cars and the like comprising a rigid rim; a flexible crib body connected to the rim; means for connecting one side of the rim to the motor car so that the rim may be swung up or down; eye bolts secured to the floor; supports provided with holes engaging said eye bolts and pivotally and detachably connected to the ends of the rim intermediate the sides each support comprising two flat bars slidable longitudinally on one another, and a coil spring embracing the bars and with the ends of which the bars are respectively connected.

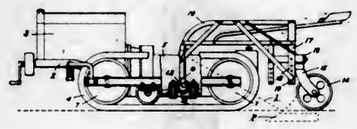
1,377,608. ATTACHMENT FOR ENGINES. OLIVER P. TAYLOR, Rockland, Me. Filed Feb. 7, 1920. Serial No. 356,954. 2 Claims. (Cl. 123—25.)



1. A device of the character set forth including an engine having an intake manifold and a radiator having

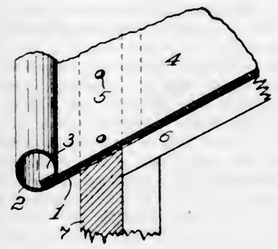
an overflow pipe, a substantially funnel shaped collecting element carried by said radiator, a strainer for said collecting element, a float valve carried by said strainer and adapted to close the collecting element when contacted by water, a pipe connected to the collecting element and to the intake manifold, and a valve in said pipe.

1,377,609. DRAFT-RIGGING FOR MOTOR-VEHICLES. ERNEST F. TOWNSEND, Los Angeles, Calif., assignor to Lucretia A. Townsend, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,161. 4 Claims. (Cl. 213—67.)



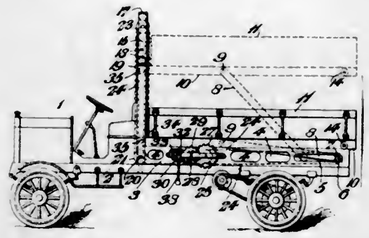
1. In a self-propelled vehicle, a load carrying frame extending over the rear axle of the vehicle and connected to said vehicle at a point forwardly of said axle and below the center of gravity of said vehicle.

1,377,610. BORDERING FOR ROOFING. FRANK M. TRAPHAGAN, Waterloo, Iowa; I. W. Blough, administrator of said Frank M. Traphagan, deceased, assignor to Maude Jackson and Amy Stevens. Filed Sept. 15, 1919. Serial No. 323,760. 2 Claims. (Cl. 108—28.)



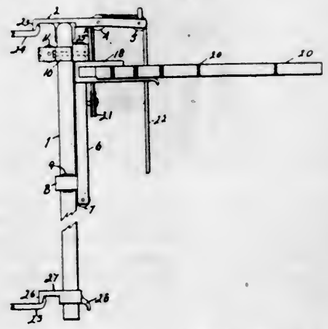
2. A finishing bordering for a roof and the like, comprising an elongated plate having a flat longitudinal margin, and means for fastening said margin to the roof surface, said plate having its opposite longitudinal margin rolled tubularly upwardly and around toward the roof, with yieldable elastic edge abutting upon the first-mentioned margin spaced from the edge of the latter.

1,377,611. HOISTING AND DUMPING VEHICLE. EDWARD ALBRECHT and WALTER H. SCHUSSLER, Philadelphia, Pa. Filed Mar. 25, 1919. Serial No. 285,001. 11 Claims. (Cl. 298—11.)



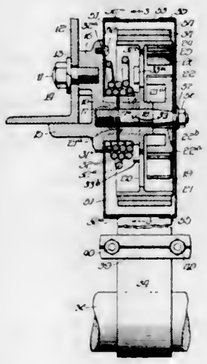
1. In a hoisting and dumping vehicle, the combination with the chassis and its body, of standards guiding the front end of said body, bars connected at their front ends to the body and having their rear ends slidable relatively to said chassis, anti-friction devices guided by said standards and carried by the rear ends of said bars, a cable passing around said devices and having one end fixed to the front end of said body, and means to actuate said cable.

1,377,612. CLOTHES-DRIER. EMMOR M. BAYNE, Philadelphia, Pa. Filed June 16, 1920. Serial No. 389,289. 1 Claim. (Cl. 68—34.)



In a clothes drier of the character described, a beam, an overhanging arm secured to the top of said beam, said arm having a slot therein, two shive wheels journaled in said slot, a slide adapted to move up and down upon the beam, a slide adapted to move up and down upon the beam, a head, horizontal arms carried by said head, ears formed on said head, said ears being fitted to the front face of the slide, an angle bar fitted upon the upper end of the slide, a guide bracket, feet formed on said bracket adapted to bear against one face of the angle bar, bolts passed through said feet, angle bar, bracket and ears for holding these parts in position, a shive wheel journaled to the slide, and a rope passed around each of said shive wheels and having one end thereof attached to the overhanging arm.

1,377,613. SHOCK-ABSORBER FOR VEHICLES. JOHN W. BLACKLEDGE, Chicago, Ill. Filed Mar. 15, 1919. Serial No. 282,928. 11 Claims. (Cl. 267—10.)



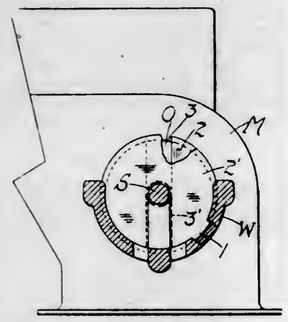
1. A shock absorber comprising relatively rotatable members adapted for connection, respectively, with two parts to be controlled, and a return spring for the rotatable member comprising an inner coil and a surrounding coil nested upon said inner coil; said spring having attaching ends connected with the respective relatively rotatable members.

1,377,614. CORSET. VITA BUCHANAN, New York, N. Y. Filed May 16, 1919. Serial No. 297,625. 1 Claim. (Cl. 2—78.)



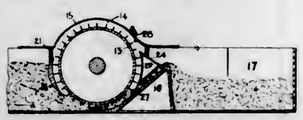
A corset comprising a body portion and inelastic leg-embracing portions wholly surrounding the legs, and elastic inserts arranged at each side of the corset; said inserts each comprising a thigh-engaging portion and a hip-engaging portion extending upwardly therefrom to the hip bone of the wearer, substantially as specified.

1,377,615. SIDE-CLOSING PLATE FOR GRINDING-MILLS. FREDERICK R. CORNWALL, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 12, 1920. Serial No. 350,908. 10 Claims. (Cl. 64—22.)



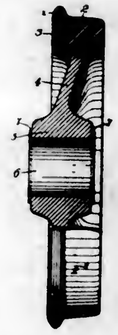
1. In combination with a mill provided with a side opening, a shaft, a rotatable circular closing plate for said opening comprising a member provided with a slot, and means for closing said slot.

1,377,616. ATTACHMENT TO BEATING-ENGINES. JUDSON A. DE CEW, New York, N. Y., assignor to Process Engineers, Incorporated, New York, N. Y. Filed Apr. 18, 1919. Serial No. 291,031. 5 Claims. (Cl. 92—24.)



1. In a beating engine, in combination, a vat, a roll, guideways within the vat having their lower ends closed, and a deflector supported upon the closed lower ends of said guideways.

1,377,617. CAR-WHEEL OR SIMILAR BODY. LOUIS F. DIETER, Buffalo, N. Y. Continuation of application Serial No. 633,343, filed June 15, 1911, (Patent No. 1,243,050,) and a division of application Serial No. 195,637, filed Oct. 9, 1917, (Patent No. 1,319,142.) This application filed Nov. 9, 1917. Serial No. 201,086. 78 Claims. (Cl. 295—29.)

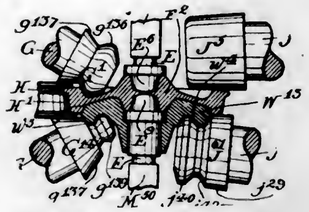


40. A car-wheel having a portion of one side thereof die-formed and the remaining surfaces thereof including the peripheral face and the opposite sides of its rim rolled to form.

62. A car wheel or other circular article which has been dished from undished form into dished form during rotation.

67. A wheel or other circular article which has been formed during rotation and having a hub and web or central portion and a rim or marginal portion and which hub and web or central portion and rim or marginal portion have been completely formed by rotatable or rotated side-instrumentalities and a peripheral face-roll while the operating parts of said instrumentalities during the formation of said wheel or other article have extended from the axis or from near the axis of the work-piece outwardly beyond the periphery of the work-piece or wheel or other article and have operated against said central and rim portions and while said face roll has been operating between and in contact with said instrumentalities and against the peripheral face of the work-piece and while the pressure operating parts of said instrumentalities and the pressure operating part or parts of said face roll have together completely or entirely surrounded the work-piece or wheel or other article in a plane passing radially and transversely through the work-piece or wheel or other article, thereby giving to the metal of said wheel or other article so formed the desired peculiar qualities specified.

1,377,618. DISHED CAR-WHEEL OR SIMILAR BODY. LOUIS F. DIETER, Buffalo, N. Y. Continuation of application Serial No. 633,343, filed June 15, 1911, and a division of application Serial No. 195,922, filed Oct. 11, 1917. This application filed Nov. 9, 1917. Serial No. 201,155. 43 Claims. (Cl. 295—29.)



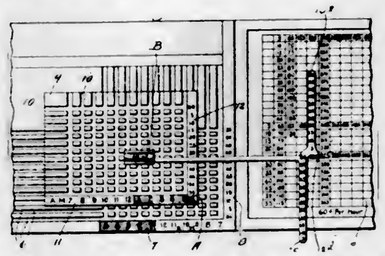
2. A car-wheel or other circular article partly die and roll-forged and partly roll-forged and having a dished central portion including a hub and web and a rim portion formed integral with said central portion, said central portion being formed or composed of metal having a given density or strength and said rim portion being formed or composed of metal of increased density or increased strength.

1,377,619. SASH-HOLDER. FREDERICK E. DOMSCHEIT, Bridgeport, Conn. Filed May 26, 1920. Serial No. 384,276. 10 Claims. (Cl. 292—138.)



1. In combination with a window frame and window sashes therein, a rigid seat common to both sashes for engaging the end face of each, a holder common to both sashes and engaging the opposite end face of each, and means to move the holder in the plane of the sashes so as to bodily shift the latter in said plane and against the rigid seat.

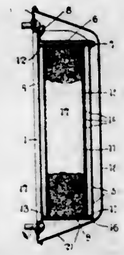
1,377,620. LAPSED-TIME-CALCULATING MACHINE. CLYDE P. EVANS, St. Louis, Mo. Filed June 24, 1918. Serial No. 241,631. 3 Claims. (Cl. 235—89.)



2. In an apparatus of the character described, the combination of a base having hour and minute scales arranged at angles to each other, a movable starting time indicator angularly adjustable on said base to indicate the time of beginning work, said indicator also having hour and minute scales arranged at angles to each other, a finishing time indicator arranged on said starting time indicator and capable of angular adjustment thereon to indicate the time of finishing the work, and a computing table containing numbers representing the cost of labor at a given rate per hour with which said finishing time indicator cooperates, said finishing time indicator being provided with a minute deduction scale for indicating the total cost of labor less a given number of minutes to be deducted from the time lapsing between beginning and finishing the work.

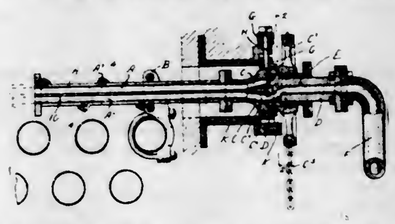
1,377,621. AUTO-RADIATOR HEATER. GEORGE H. FRITZSCHE, Brooklyn, N. Y., assignor to Taplex Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 5, 1919. Serial No. 301,921. 5 Claims. (Cl. 126—350.)

1. A heater for automobile radiators comprising, a frame arranged to be mounted on the front of the radiator and having an opening therethrough, a vertically disposed tubular casing secured to the top and bottom of said frame in open communication with the radiator through the opening in the frame, a dry fuel holder vertically disposed



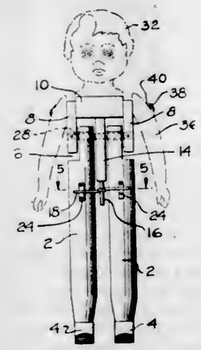
in said casing, and a door extended laterally to form a housing around the casing, said door being hinged to the frame and arranged to contact therewith to protect the casing.

1,377,622. SOOT-BLOWING DEVICE. JAMES KEMNAL, Chislehurst, and JOHN HENRY, London, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Dec. 15, 1920. Serial No. 430,989. 14 Claims. (Cl. 122—392.)



1. A soot-blowing device comprising a soot-blowing element provided with separate passages and series of nozzles arranged obliquely to the axis of said element and communicating with the respective passages, one series of nozzles being arranged to direct a cleaning fluid through one set of oblique aisles in a group of boiler tubes and another set being arranged to direct a cleaning fluid through another set of oblique aisles, and means for connecting said passages alternately with a source of fluid supply.

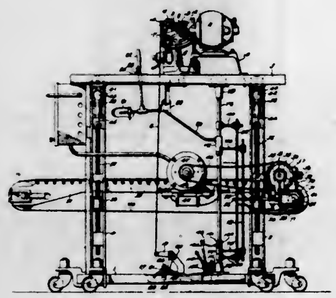
1,377,623. DOLL. KOH ONO, New York, N. Y. Filed June 3, 1920. Serial No. 386,154. 16 Claims. (Cl. 46—40.)



1. A walking doll comprising a body, legs pivoted upon said body to swing thereon, a pivot intermediate between

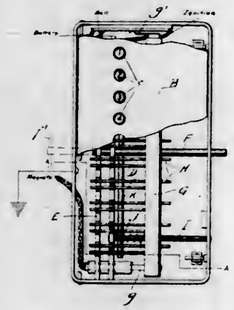
the sides of said body, and a lever fulcrumed on said pivot and slidably connected to each leg upon an outer face thereof at a point below the leg pivot.

1,377,624. FILLED-SACK-SEWING APPARATUS. FREELAND W. OSTROM, Newark, and IRVING F. WEBB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Jan. 21, 1919. Serial No. 272,254. 18 Claims. (Cl. 112—11.)



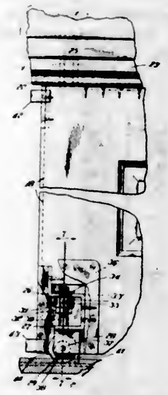
1. In a filled sack sewing apparatus, the combination with a framework, a sewing mechanism, and an endless carrier for conveying a filled sack past said sewing mechanism, of driving means for said carrier including a connection permitting the carrier to be freely moved in opposite directions.

1,377,625. LOCK. FRANK W. L. PEEBLES, St. Louis, Mo., assignor to Leo Ehrlich, St. Louis, Mo. Filed Dec. 7, 1916. Serial No. 135,567. 12 Claims. (Cl. 70—54.)



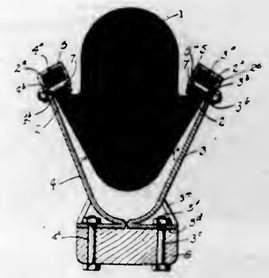
1. A combination lock comprising a bolt, a plurality of manually operable keys, dogs, each adapted to lock the bolt against movement in one direction, said dogs being arranged in pairs and each pair operable by one of the keys, a spring for each dog, each dog capable of being adjusted so as to be actuated by its spring to lock the bolt but release it upon the operation of its key, or be adjusted so its spring will tend to prevent its locking the bolt but lock it when its key is operated, and means whereby the dogs may lock the bolt in either of two positions.

1,377,626. FOLDING DOOR. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed May 17, 1920. Serial No. 382,011. 5 Claims. (Cl. 20—20.)



1. The combination of a door, a grooved track, a housing pivotally mounted on said door to turn about a vertical axis thereon, a lug extending downward from said housing into the groove of said track for holding the housing in proper position with respect to the track, and a caster wheel revolubly mounted in said housing and comprising a circumferential rib engaging the groove of said track.

1,377,627. VEHICLE-TIRE. CLARENCE S. PRESTON, San Diego, Calif. Filed May 15, 1919. Serial No. 297,181. 4 Claims. (Cl. 152—1.)

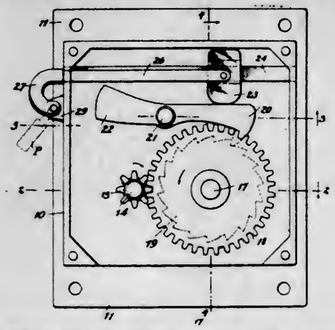


1. In a tire structure of the class described, a tread portion provided with oppositely disposed, outwardly inclined, elastic extended portions, and load carrying supports secured thereto at their outer edges, and a felly to which said supports are secured, whereby, the load is suspended under tension of sad outwardly inclined, elastic portions, so that the strain shall be in lines with said extended portions.

1,377,628. CAR-BRAKE-CONTROLLING MEANS. CHARLES EDWARD ROCHAMBEAU, St. Joseph, Mo. Filed Nov. 22, 1919. Serial No. 339,887. 2 Claims. (Cl. 74—118.)

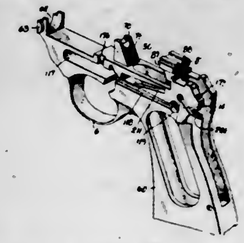
1. In a device of the character set forth, the combination of a brake casing, a power spindle journaled transversely therein, a brake chain extending through the wall of the casing and connected to said spindle, a ratchet wheel secured to the spindle, a pawl coöperating with the ratchet wheel, a fixed bar extending within the casing

parallel to the pawl, a weight slidable along said bar and bearing at all times upon said pawl, and a link connected



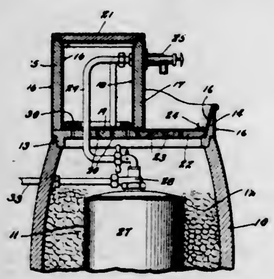
to the weight and extending through and beyond the casing wall whereby the position of the weight may be controlled.

1,377,629. COMPOSITE AUTOMATIC FIREARM. WALDO E. ROSEBUSH, Spokane, Wash. Filed Jan. 26, 1920. Serial No. 353,983. 7 Claims. (Cl. 42—75.)



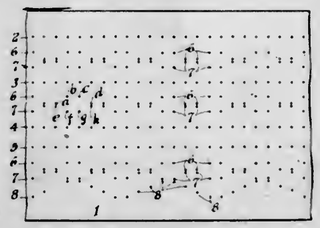
1. As an article of manufacture, a composite automatic hand firearm, comprising a single main frame provided with a magazine-receiving portion and having permanently associated with it an actuating mechanism, a plurality of barrels, barrel receivers, breech blocks and magazines, the said main frame, barrels, barrel receivers, breech blocks and magazines being of different types and so constructed to permit an interchangeable assembling of the said barrels, barrel receivers, breech blocks and magazines in sets, with the said single main frame and its actuating mechanism, to form a number of different hand firearms for diverse uses.

1,377,630. BEVERAGE COOLING AND DISPENSING APPARATUS. DAVID O. ROYSTER, St. Louis, Mo. Filed Dec. 10, 1918. Serial No. 266,035. 1 Claim. (Cl. 225—16.)



In a beverage cooling and dispensing apparatus, the combination with a receptacle, and a beverage container removably positioned therein, of a member removably positioned on top of the receptacle and serving as a cover therefor, said member comprising a housing and a pan, said pan being provided with a removable bottom, the bottoms of the housing and the pan being provided with drain openings, a faucet seated in the wall of the housing above the pan, a tubular connection from the beverage container to said faucet, a portion of which tubular connection passes through the housing.

1,377,631. SMOCKING-PATTERN. HELENA S. SADTLER, Springfield township, Montgomery county, Pa. Filed May 1, 1915. Serial No. 25,131. 4 Claims. (Cl. 2—16.)



1. A smocking pattern comprising a sheet of suitable material having thereon indicating means consisting of separate elements and the said pattern comprising rows of said indicating means which indicating means in the said rows is out of alinement, the relation of the separate elements of the said indicating means in each row determining the design of the respective rows of stitches corresponding to the rows of indicating means.

1,377,632. SOUND-BOX. JOHN J. SCULLY, Bridgeport, Conn., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Apr. 17, 1918. Serial No. 229,129. 8 Claims. (Cl. 274—25.)

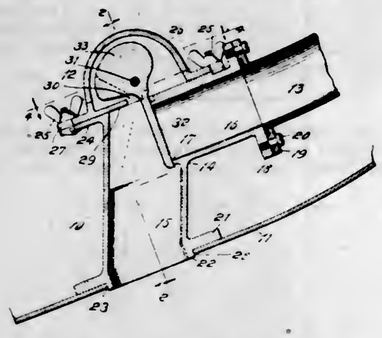


1. A sound-box comprising an apertured body-member of sheet-metal provided with slots adjacent said aperture, and a tube of sheet-metal provided with tongues received in said slots and bent over to clamp said body-member.

1,377,633. OVERBOARD-DISCHARGE VALVE FOR SHIPS. HAROLD H. SIDWELL, Brooklyn, N. Y. Filed May 20, 1919. Serial No. 298,493. 3 Claims. (Cl. 114—196.)

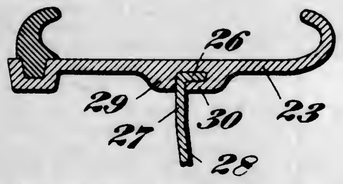
1. An overboard-discharge and back-water check valve mechanism for ships comprising a main valve casing having an inlet-branch to receive the end of a drain pipe and an outlet branch extending outwardly therefrom, said inlet branch being extended into said outlet branch and affording at its end within said outlet branch a valve seat which stands at substantially a right angle to the longitudinal line of said inlet branch and at an oblique angle to the longitudinal axis of said outlet branch, and said

casing at its outer side at the junction of said branches having an opening and being formed with a surrounding seat-flange, a hood seated on and detachably secured to said flange and opening at its inner side into the said opening



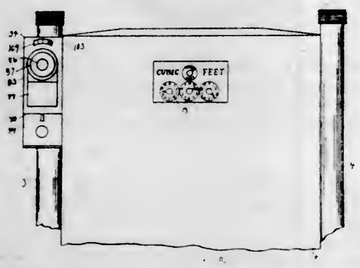
in said main casing, and a clapper-valve having an overweighted head pivotally mounted within the chamber of said hood and extending thence through said openings into said outlet branch to automatically close against said seat.

1,377,634. WHEEL. EDWIN E. SLICK, Westmont borough, Pa. Filed Nov. 22, 1918. Serial No. 263,724. 6 Claims. (Cl. 301—63.)



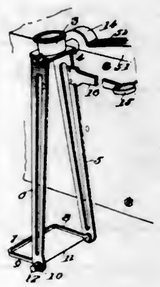
1. A wheel comprising a thin disk provided with integral circumferential laterally projecting portions, a rim mounted thereon and provided with a pair of integral flanges formed intermediately of the edges of said rim and adapted to contact with said laterally projecting portions, thereby locking the rim and the disk securely together.

1,377,635. PREPAYMENT GAS-METER. FREDERICK SMITH, Darby, Pa. Filed June 26, 1916. Serial No. 105,791. 11 Claims. (Cl. 221—101.)



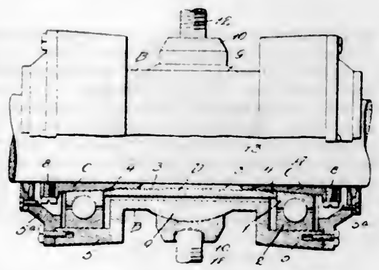
1. The combination with a meter having a diaphragm operated mechanism and provided with a valve, of a shaft to which said valve is connected, a sleeve mounted on the shaft, a connecting dog journaled on said sleeve, means for permitting a movement of said dog independent of the sleeve and a predetermining mechanism coacting with said connecting dog to open or close the valve.

1,377,636. SPEED-INDICATOR. JOHN REGINALD CRISPIN SMITH, Victoria, British Columbia, Canada. Filed Sept. 13, 1919. Serial No. 323,671. 10 Claims. (Cl. 33—46.)



1. A device of the character specified comprising a case, a sighting device mounted to swing on the case, a spring controlled motor in the case and connected with the arm to swing the same in one direction, a friction disk driven by the motor, manually controlled means for controlling the speed of the disk, a shaft journaled diametrically of the friction disk, a friction wheel feathered on the shaft to move longitudinally thereof and contacting with the face of the disk, means for moving the wheel, a centrifugal governor driven by the shaft, an indicator arm controlled by the movement of the governor, a scale with which the arm coöperates, and a scale for indicating the position of the wheel.

1,377,637. MOUNTING FOR ANTIFRICTION-BEARINGS. OLIVER STANGLAND, St. Louis, Mo. Filed Mar. 29, 1920. Serial No. 369,726. 11 Claims. (Cl. 64—36.)

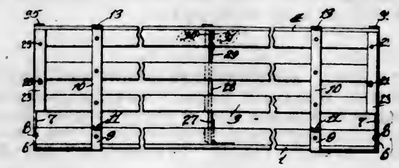


8. A mounting for anti-friction bearings, comprising a housing, a supporting structure in which said housing is rockably mounted, portions on said housing that surround the outer race members of two spaced anti-friction bearings, a spacing sleeve interposed between the inner race members of said bearings, and devices screwed into said spacing sleeve in such a manner that when said devices are tightened the members of the bearings will be clamped securely in operative position.

1,377,638. FOLDABLE RECEPTACLE. FRANK M. STEUTERMAN, St. Louis, Mo. Filed Jan. 8, 1917. Serial No. 141,116. 2 Claims. (Cl. 217—15.)

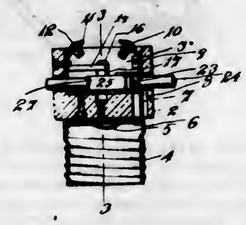
1. A foldable receptacle comprising top walls, side walls and end walls, a pair of engaging members carried by each of said side and end walls, each member of each of said side walls adapted to interlock with a mating member of said end walls when said walls are moved to approximate vertical positions, a pair of locking members and a slidable slat carried by one of said top walls, each

of said locking members being located on each end of said top wall, and each being coöperable with the upper edge of a respective end wall for preventing said end walls being moved inwardly and there being means provided



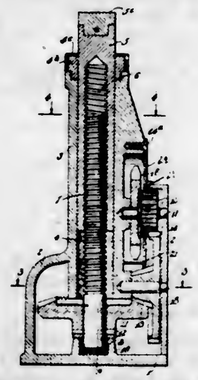
on each locking member coöperable with said slot for the introduction of a securing element, said locking members also being coöperable with one of said side walls when all of said walls are laid against each other in collapsed positions.

1,377,639. ELECTRIC SWITCH. CLARENCE C. STIRLING, Hartford, Conn. Filed Jan. 14, 1920. Serial No. 351,373. 2 Claims. (Cl. 173—355.)



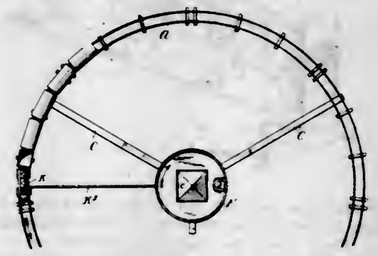
1. An electric switch comprising contacts, a switching member, an actuator mounted for back and forth movements and upon which the switching member is slidable, and a forked spring element, the transverse part of which is rigid with the actuator the switching member having converging cam surfaces inclined with respect to the axis of the actuator in two directions and the spring element having side branches for engaging said cam surfaces.

1,377,640. LIFTING-JACK. GEORGE STODDEN, Stratford, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed May 24, 1919. Serial No. 299,631. 2 Claims. (Cl. 254—103.)



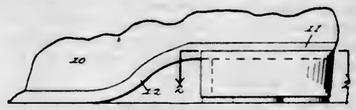
1. In a lifting jack for automobiles, a base, a sleeve erected thereon, a vertically movable extension member adapted to slide in said sleeve, a non-traversing lifting screw coöperating with said extension member and provided with a horizontally disposed gear located near the said base, reducing mechanism for said lifting screw adapted to actuate said gear, said reducing mechanism being mounted for rotation in a vertical plane, an actuating mechanism for said reducing mechanism consisting of a sprocket and chain, said sprocket being mounted to rotate in a vertical plane intermediate the said lifting screw and the said plane of rotation of said reducing mechanism and adjoining said sleeve.

1,377,641. CONVERSELY-TURNING CAROUSEL. JOHN C. TURNER, Dayton, Ohio. Filed June 7, 1917, Serial No. 173,324. Renewed Oct. 5, 1920. Serial No. 414,831. 2 Claims. (Cl. 46—27.)



2. A toy including a plurality of rotatable elements, connections therebetween for causing said elements to rotate oppositely; and means comprising a helix and a vertically movable weight acting in its descent to impart rotary motion to one of said elements.

1,377,642. ROTARY HEEL. ALEXANDER TWAROGOWSKI and STANISLAW KLOSINSKI, Detroit, Mich. Filed Sept. 29, 1920. Serial No. 413,568. 3 Claims. (Cl. 36—39.)



1. In a device of the character described, a heel-plate adapted to be secured to a shoe heel, and having an annular central cavity in its rear body and a rubber cushion in its chambered front part, a metallic plate having a stem screwed into said cavity, a rubber cushion secured to said metallic plate, a recessed spider at the upper end of said stem, and means engaging in the recess of said spider for locking the parts in their relative adjusted positions.

1,377,643. PROCESS FOR FINISHING THE EDGES OF FLEXIBLE MATERIAL. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Mar. 19, 1920. Serial No. 367,110. 2 Claims. (Cl. 69—21.)

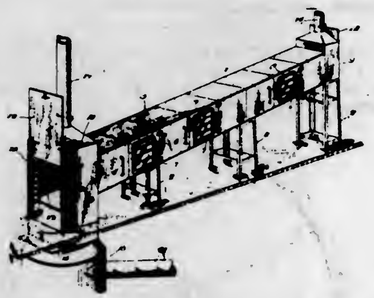


2. A process for finishing the edges of very thin flexible material, consisting of the following steps: first, permeating the raw edge with an oily stain, and drying the same, second, forming the permeated edge into a desired form by molding the same into a condensed mass, and third, subjecting said edge to a burnishing operation.

1,377,644. DRIER. WILLIAM J. WARRINGTON, New Orleans, La., assignor, by direct and mesne assignments, of two-ninths to L. Earl Tonglet, two-ninths to Edmond J. McGinnis, and two-ninths to Charles G. Gaspard, New Orleans, La. Filed Nov. 3, 1919. Serial No. 335,242. 3 Claims. (Cl. 34—39.)

1. An apparatus for the purpose set forth comprising an inclined conduit, a discharge chamber at the lower end

of the conduit, a receiving chamber at the upper end of the conduit, means for conveying food to be dried from the receiving chamber through the conduit into the discharge chamber, means for supplying a moisture-extracting agent to the discharge chamber, and means in the top



of the discharge chamber and in the top of the receiving chamber to control the flow of said agent and permit it to escape direct from the discharge chamber or to flow through the conduit from said chamber to the receiving chamber.

1,377,645. METHOD OF MIXING BATTERY MATERIAL. JOSEPH W. WEISS, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Nov. 14, 1918. Serial No. 262,415. 2 Claims. (Cl. 204—29.)

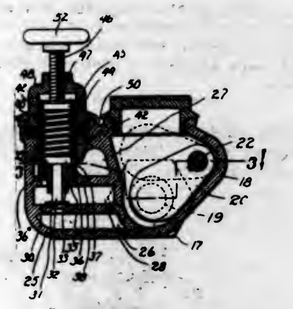
1. A method of intimately mixing materials for a depolarizing compound for dry cells, which comprises: introducing powdered carbonaceous material and powdered depolarizing material and an excess quantity of water into a mixing machine, violently agitating the mixture for a suitable length of time, and then removing the excess of water from the mixture.

1,377,646. FLASHLIGHT OR BATTERY HAND-LAMP. ARTHUR W. WELLINGTON, Waterbury, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Aug. 26, 1919. Serial No. 319,885. 1 Claim. (Cl. 240—8.5.)



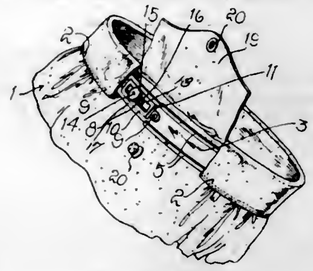
A flashlight or battery hand-lamp having a tubular case provided with external screw threads formed directly in it at its lower end, a contact-button housing arranged in line with the case and riveted thereto, a contact-rivet mounted in the case at a point within the upper end of the said housing, a terminal-strip arranged in line with the housing and extending from the said contact-rivet to the lower end of the case, a bottom-cap for the case applied directly to the exterior threads formed in the lower end thereof, and a rivet for fastening the lower end of the terminal strip to the lower end of the case, the outer end of the said rivet being located in a recess formed in the threaded portion of the case, whereby the rivet is insulated from the flange of the said cap.

1,377,647. AUTOMATIC PRESSURE-REGULATING VALVE. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 28, 1918. Serial No. 214,117. 10 Claims. (Cl. 277—54.)



2. In a device of the character described, a valve casing having communicating passages normally closed by a valve adapted to operate under pressure applied in either direction through said passages and bypass means adapted to divert a compressible body in either direction from said valve.

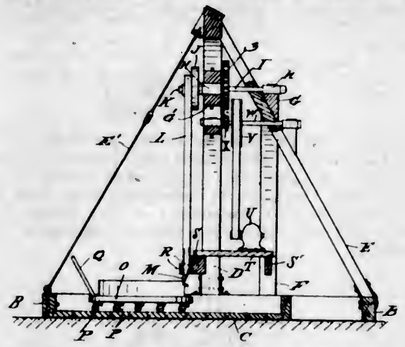
1,377,648. CLAMPING-BRACELET FOR MITTENS, GLOVES, &c. EDNA L. WHITAKER, West Branch, Mich. Filed May 12, 1920. Serial No. 380,841. 3 Claims. (Cl. 2—102.)



1. The combination with a hand wearing apparel, provided with a channel at its wrist portion, of a band engaging through said channel, one end of the band having a threaded stud, the other end of the band having an adjustable sliding thumb button carried thereby and provided with a socket to receive the threaded stud for clamping the opposite ends of the band together.

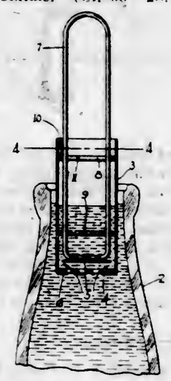
1,377,649. SLICING-MACHINE. OLIVER J. WILLIAMS, Burlingame, Calif., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 4, 1919. Serial No. 342,313. 5 Claims. (Cl. 146—7.)

5. In a slicing machine, an upright frame comprising two uprights, a horizontal cross member, a guide on said cross member, a crank shaft supported on said frame, a pitman connected to said crank shaft and operating through said guide, and a cutter rigidly connected to the



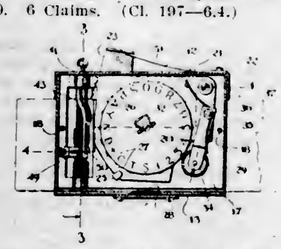
lower end of said pitman, said cutter being of a width not greater than said pitman whereby the cutter in its oscillation may be steadied by said guide.

1,377,650. CREAM-EXTRACTOR. FREDERIC WOMMER, Minneapolis, Minn. Filed Mar. 17, 1920. Serial No. 366,508. 4 Claims. (Cl. 65—28.)



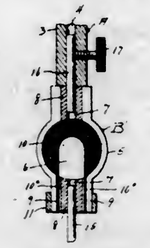
2. A device of the class described comprising a cup having an open top and a port in its lower walls and a valve comprising a flat disk, normally closing said port, means in the form of an elongated, U-shaped loop fitting within said cup and having means for frictional engagement with the inner walls thereof, said means projecting above said cup and forming a hand grip, and its lower end contacting with the upper surface of said valve for forcing it downwardly to close said port, said means when moved upwardly in said cup, releasing said valve and allowing it to rise and open said port.

1,377,651. CHECK-PROTECTOR. ALVIE CLIDE WOODRUFF, Burns, Oreg. Filed July 9, 1920. Serial No. 395,050. 6 Claims. (Cl. 197—6.4.)



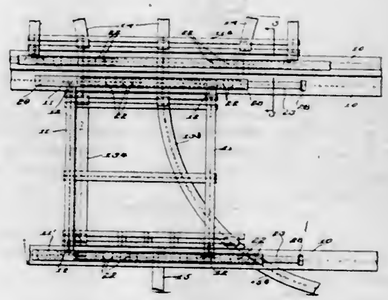
1. A check protector consisting of a frame adapted to be clasped in its entirety in the hand of the operator including adjacent front and rear walls forming a narrow compartment therebetween, a pivoted carrier in the said compartment having an externally projecting fingerpiece, a controlling spring therefor, an index wheel pivoted to and movable with the said carrier, toward and away from a portion of the frame forming a check support, and check engaging and moving means within the compartment including a rotatable member, spirally grooved shifting means having a ratchet connection with the said member, and an extension on the said carrier projecting into the spiral groove of the actuating member.

1,377,652. MODIFYING ATTACHMENT FOR SOUND-REPRODUCING MACHINES. PETER E. YEAGER, Reading, Pa. Filed Apr. 2, 1920. Serial No. 370,788. 3 Claims. (Cl. 274—27.)



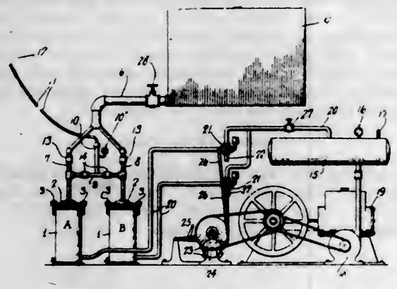
1. As a new article of manufacture, a sound modifying attachment for use in connection with the stylus arm of a sound reproducing machine comprising a shell having a chamber intermediate its ends, openings in its opposite ends, and a vibratory medium arranged within the chamber and substantially in contact with the wall of the chamber.

1,377,653. MOUNTING FOR TROLLEY-SWITCHES. HARRY E. BALLARD, Holyoke, Mass., assignor to The Coburn Trolley Track Manufacturing Company, Chicopee, Mass., a Corporation of Massachusetts. Filed Sept. 14, 1920. Serial No. 410,283. 4 Claims. (Cl. 104—102.)



1. Apparatus of the kind described, comprising a car bearing one or more sections of a trolley track depending therefrom and having channel beams at its sides, beam supports upon which the car is mounted for movement, and a roller bearing mounted upon said beam supports and upon which the side beams of the car rest, said side beams of the car and beam supports having each bearing strips borne on the faces thereof, said roller bearing consisting of a series of rollers constituting a separate unit engaging said strips and with retaining means at their ends engaging said strips to prevent relative displacement.

1,377,654. SPRAYING-MACHINE. HENRY C. BAUMGARDNER, Ann Arbor, Mich. Filed Sept. 13, 1920. Serial No. 409,766. 5 Claims. (Cl. 200—96.)



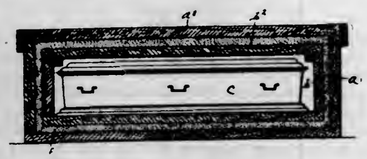
1. A spraying apparatus comprising a pair of pressure tanks, a reservoir, a branch pipe connecting the said tanks with the reservoir, a nozzle carrying pipe connected with the branches of said pipe, means for alternately supplying compressed air to the tanks and valves in the branches of the supply pipe and in said nozzle carrying pipe for automatically controlling the flow of solution from the reservoir to the tanks and the solution from the tanks to the nozzle.

1,377,655. HAIRDRESSER'S UNDULATING DEVICE. GOTTFRIED BEGAS, Berlin, Germany. Filed Feb. 24, 1921. Serial No. 447,367. 12 Claims. (Cl. 132—33.)



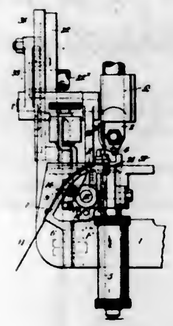
9. A device for undulating hair consisting of a tapering rod with a spiral hair heating and guiding rib formed thereon, a longitudinal hair undulating ridge extending along the rod, and hair undulating ridges extending radially from the longitudinal ridge to the periphery of the said spiral rib, and electrical means for heating said rod, ribs and ridges.

1,377,656. BURIAL-CASE. THOMAS BEST, Detroit, Mich. Filed July 6, 1920. Serial No. 394,109. 4 Claims. (Cl. 27—35.)



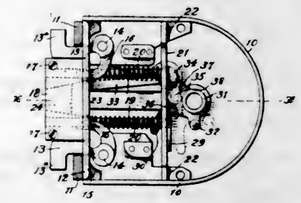
1. The method of constructing a burial case which consists in providing a creosoted outer box, an inner box adapted to be received therein spaced therefrom, pouring a heated tar product into the outer box so as to form a tar layer over the bottom thereof, positioning said inner box thereon, pouring a heated tar product around the inner box so as to completely fill the space between the inner and outer box, pouring such heated tar product over the cover of such inner box so as to completely inseal and incase said inner box, placing the cover of said outer box in position.

1,377,657. LACING-STUD-SETTING MACHINE WITH REINFORCING-TAPE THEREFOR. STEPHEN G. BLESSINGTON, Haverhill, and AUGUSTUS H. COSGROVE, Boston, Mass., assignors to American Lacing Hook Co., Waltham, Mass., a Corporation of New Jersey. Filed Sept. 28, 1917. Serial No. 193,838. 29 Claims. (Cl. 218—17.)



1. In a lacing stud setting machine, the combination, with a guide for a continuous reinforcing strip to prevent its lateral displacement in both directions and direct the same to the work, of step by step means for advancing the strip through said guide, and means independent of said strip advancing means for attaching said strip to the work by the setting of a plurality of studs at intervals through a length of said strip when advanced to the work, said strip advancing means being adapted to feed the work by the strip.

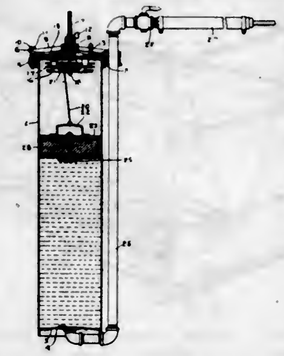
1,377,658. LOCK. ALFRED C. O. BOCK, Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 3, 1920. Serial No. 408,009. 7 Claims. (Cl. 70—46.)



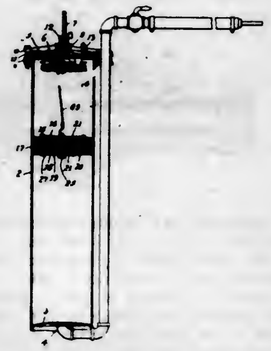
1. In a lock, the combination of a casing, two L-shaped bolts pivoted thereto, and a dead locking bolt for positively actuating both of said L-shaped bolts and adapted to be projected between and reinforce them and also enter the keeper and perform the function of a latch bolt, and means for actuating the dead locking bolt.

1,377,659. GREASE-DISPENSING APPARATUS. HANS M. BOE, Minneapolis, Minn. Filed Oct. 25, 1917. Serial No. 198,488. 6 Claims. (Cl. 221—78.)

6. An apparatus for dispensing lubricating material comprising a tank having a discharge opening in the bottom thereof, a pipe communicating therewith, a piston arranged to rest upon the lubricating material, and a valve composed of yielding material mounted on the underside of said piston and adapted to seat itself over said discharge opening when said piston reaches the limit of its downward movement.



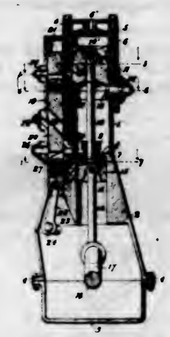
1,377,660. PISTON FOR GREASE-GUNS. HANS M. BOE, Minneapolis, Minn. Filed July 8, 1918. Serial No. 243,976. 7 Claims. (Cl. 221—78.)



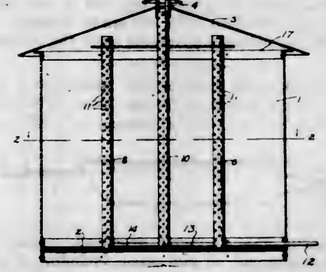
1. The combination, with a grease or oil container, of a floating piston ring fitting therein, a piston fitting within said ring and separable therefrom without removal of the ring from the container and an indicating device for said container having a flexible connection with said piston.

1,377,661. INTERNAL-COMBUSTION ENGINE. DESIRÉ V. BOUREAU, Brooklyn, N. Y. Filed Apr. 30, 1917. Serial No. 165,558. 6 Claims. (Cl. 123—59.)

1. In an internal combustion engine, the combination of a crank shaft and a plurality of cylinders provided with gas explosion and pre-compression chambers, a piston in each of said cylinders connected with said crank shaft, a laterally positioned valve casing for each of said cylinders, a slide valve in each of said casings, each having three transverse passageways, one of which is adapted to communicate with the explosion chamber of one cylinder, and the other two adapted to alternately register with an inlet port leading to the pre-compression chamber of said cylinder for admitting and exhausting gas to and from the same, said last mentioned transverse passage-ways being adapted to alternately communicate with intake and outlet passage-ways through the outer wall of the valve casing, the latter passageway communicating with the combustion chamber of another cylinder through the first-mentioned transverse passage-way in the valve thereof and valve casing therefor, and a crank shaft for actuating said piston valves.

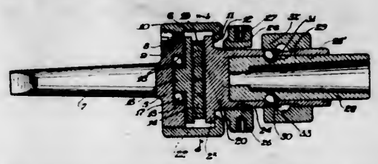


1,377,662. GRAIN-DRYING PROCESS. GEORGE F. BROWN, Moorhead, Minn., assignor to The International Patent Investment Company, Fargo, N. D., a Corporation of North Dakota. Filed May 26, 1916. Serial No. 100,045. 1 Claim. (Cl. 98—26.)



A grain ventilating apparatus including a bin for a mass of grain having a roof constituting an air chamber in the upper part of said bin, in combination with a perforated tube extending through the bin to an outlet in said roof, and having communication by means of its perforations with the interstices of the grain and said air chamber, and additional perforated air tubes extending through said bin and terminating in said air chamber.

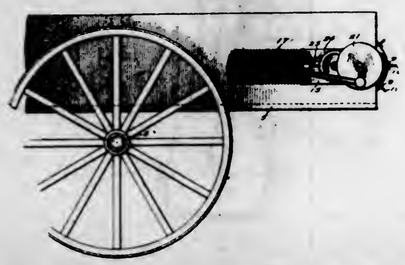
1,377,663. CHUCK. WILLIAM E. BROWN and PAUL C. SEEGMUELLER, Detroit, Mich. Filed Nov. 17, 1919. Serial No. 338,703. 3 Claims. (Cl. 279—16.)



1. In a chuck, the combination of a chuck body provided with a sleeve portion having a flanged end, a tool holder including a member having a flanged end within said sleeve portion and abutting the flanged end thereof, a clamping nut carried by said holder and movable thereon to clamp said member to the flanged end of said

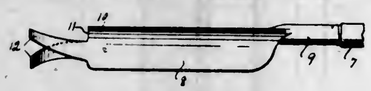
sleeve portion, and a driving connection within said sleeve portion between said member and chuck body to permit said member to move out of line with said body when said clamping nut is in inoperative position.

1,377,664. FERTILIZER OR MANURE DISTRIBUTER. LEON A. BUTTON, New Berlin, N. Y. Filed Mar. 29, 1920. Serial No. 369,536. 8 Claims. (Cl. 275—2.)



8. The combination with a horizontal receptacle having upstanding sides, of an internal combustion engine arranged near the outer face of one side, and having a flat plate formed integral therewith and a bearing integral with the end of the plate, said bearing extending laterally inwardly with relation to the plate and projecting into a transverse opening formed in the side, means to clamp the plate to said side, a second bearing carried by the opposite side, a transverse shaft journaled through the bearings, a rotatable element carried by the shaft, a crank element rigidly secured to one end of the shaft, a pitman directly connected with the crank element, and a piston within the cylinder connected with the pitman.

1,377,665. TOOL FOR REMOVING DRILLINGS FROM BORES. HENRY BUTTRAM, Moran, Iowa. Filed July 8, 1920. Serial No. 394,797. 4 Claims. (Cl. 255—60.)



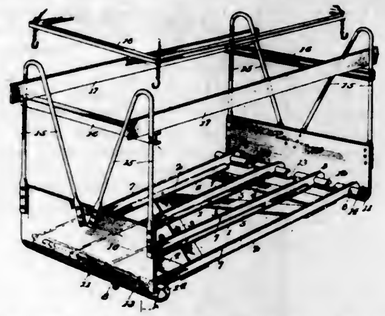
1. A scoop of the character described, comprising a body member, one end of said scoop including bits, said bits being disposed adjacent the corners of said end, and having their end portions curved inwardly toward each other in offset relation whereby matter in a passage may be loosened upon rotation of the scoop and deposited into and removed by the scoop upon sliding movement thereof.

1,377,666. CURTAIN-ROD HOLDER. THOMAS F. BYRON, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,388. 5 Claims. (Cl. 156—22.)



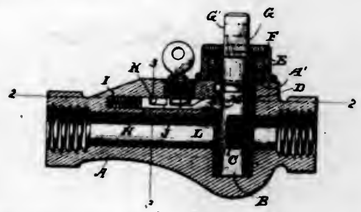
4. A curtain-holder formed of a socket member the side wall of which is cylindrical, the end wall of said socket member being slotted to receive a headed stud, with a portion of the end wall inclining outward toward the open end of said socket member.

1,377,667. BRICK-CARRYING FRAME. WILLIAM N. CARY, Albany, N. Y., assignor to The American Equipment Company, a Corporation of Ohio. Filed Mar. 3, 1920. Serial No. 362,954. 12 Claims. (Cl. 294—63.)



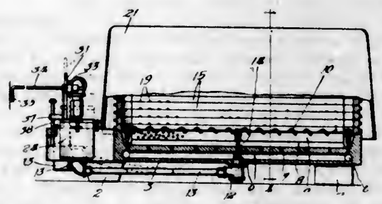
3. A brick carrying frame, and end frames therefor, there being means provided between the frames for permitting connection and disconnection of the end frames from the carrying frame by lateral movement of such end frames.

1,377,668. LOCK FOR VALVES. CALVIN S. CATES and WILLIAM PETERS, St. James, Mo.; said Peters assignor of one-half of his right to William Elfert, St. James, Mo. Filed Mar. 20, 1920. Serial No. 367,397. 1 Claim. (Cl. 251—6.)



The combination of a coupling having a seat for a valve, the seat being closed at its lower end, a valve mounted in said seat and having a hole through the same for the passage of oil, and a recess in one side at right angles to the oil passage to receive a bolt, a longitudinally movable bolt mounted in the coupling and adapted to engage the recess in the valve for locking it against movement, a spring for moving the bolt toward the valve, key mechanism for retracting the bolt, a cap secured to an upwardly projecting boss on the coupling, a washer resting on the top of the boss and on a shoulder on the valve and held in place by the cap and a pin carried by the casing and resting in a peripheral groove in the valve for holding the latter against longitudinal movement.

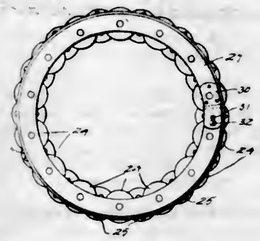
1,377,669. OIL-BURNER. JOHN W. COWELL, Chicago, Ill. Filed Oct. 28, 1919. Serial No. 333,872. 9 Claims. (Cl. 158—87.)



1. A burner comprising a plate having fuel troughs in its upper surface, wicks in said troughs, and a combustion

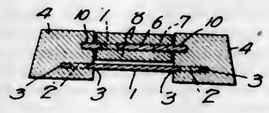
chamber comprising a stack of flat grids resting directly upon each other and on said plate, each grid having a face grooved or scored across the elements thereof at numerous points to form a multitude of air passages into the combustion chamber and between the compartments thereof.

1,377,670. ROLLER-BEARING CAGE FOR RAILWAY JOURNAL-BOXES. GEORGE W. DALLIMORE, Oakland, Calif. Original application filed June 9, 1919, Serial No. 302,948. Divided and this application filed Mar. 24, 1920. Serial No. 368,406. 5 Claims. (Cl. 64—62.)



5. The combination with the journal, of a cage having staggered slots and bearing rollers therein engaging the journal, bearing rings on the interior of the cage for the rollers, said rings and cage having alined divisions, a plurality of said rings each having a connecting plate attached thereto, and each said plate having a slotted free end, and a set screw for connecting the divided ends of the rings for the purpose described.

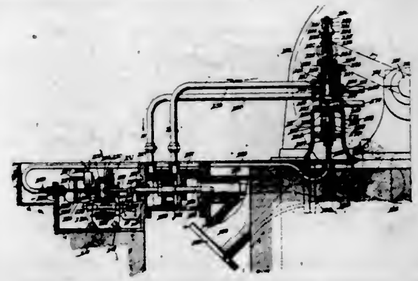
1,377,671. PROCESS OF FASTENING NON-METALLIC ELEMENTS TO METAL. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 24, 1920. Serial No. 353,789. 4 Claims. (Cl. 18—59.)



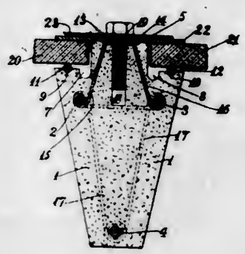
1. The process of fastening metal to a non metallic rigid, non plastic element, consisting in forming holes in the metal, filling them with adhesive and placing the metal between contiguous surfaces of the non metallic element, whereby the adhesive forms a connection from one side to the other, passing through the holes.

1,377,672. SPEED-GOVERNOR. WILLIAM A. DOBLE, San Francisco, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a Corporation of California. Original application filed June 2, 1913, Serial No. 771,308. Divided and this application filed July 12, 1917. Serial No. 180,193. 17 Claims. (Cl. 253—24.)

1. In an apparatus of the class described, the combination of a controlling element, means for automatically operating said controlling element, and comprising a member movable in accordance with the movement of said controlling element, and means for so moving said member comprising a conduit and a series of contacting rigid bodies in said conduit adapted to be moved longitudinally thereof as a unit.

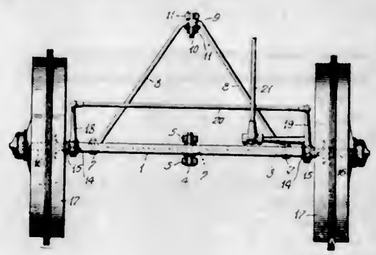


1,377,673. GLAZING SYSTEM. ALFRED ERNEST DROWN, Westminster, London, England. Filed Mar. 26, 1919. Serial No. 285,296. 3 Claims. (Cl. 108—16.)



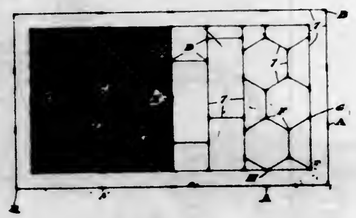
1. The combination of a reinforced glazing bar, of glass sheets supported thereon, and means forming a fixed part of said bar and secured to the reinforce member thereof to retain the glass sheets in position.

1,377,674. FRONT-AXLE ASSEMBLY. HENRY FORD, Dearborn, Mich. Filed Apr. 15, 1918. Serial No. 228,590. 6 Claims. (Cl. 180—1.)



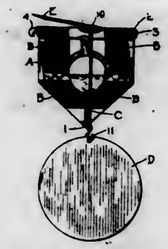
1. In a front axle assembly, the combination with the power plant of a tractor, of a front axle set in a vertical plane in front of the power plant and having a central portion trunnioned to and supporting the front end of the power plant, radius rods in the same horizontal plane as said axle and connected to said axle and trunnioned relative to said power plant, and steerable wheels at the ends of said axle.

1,377,675. FLOOR AND METHOD AND APPARATUS FOR LAYING SAME. PASQUALE GALASSI, Boston, Mass. Filed June 16, 1920. Serial No. 389,312. 7 Claims. (Cl. 72—24.)



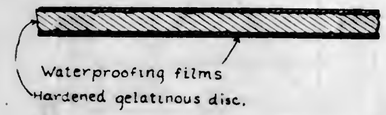
6. A floor construction of the character described having a wearing surface comprising sections arranged to form a design, narrow strips of metal separating said sections of the design, and devices securing said strips together at their junction points.

1,377,676. COMBINED MEDAL RIBBON-BAR AND MEDAL-SUSPENDER. CHARLES F. GAUNT, Birmingham, England. Filed Feb. 17, 1920. Serial No. 359,383. 5 Claims. (Cl. 40—1.5.)



3. A combined medal ribbon bar and medal suspender including a plate adapted to have a ribbon stretched thereon, said plate having a top backwardly projecting eye and a bottom backwardly projecting eye through both of which passes a headed central, vertical suspension pin adapted at its lower end for attachment to a medal.

1,377,677. RESONANT DIAPHRAGM AND PROCESS OF MAKING SAME. ALFRED GELBERT, Chicago, Ill., assignor to American Chemical Laboratories, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1919. Serial No. 320,732. 11 Claims. (Cl. 91—68.)

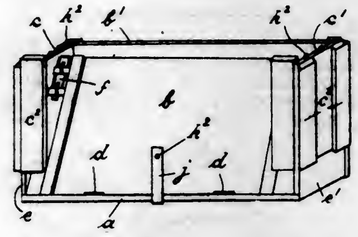


1. A resonant diaphragm comprising a gelatinous base provided on both sides with a water-excluding coating.

8. The method of producing a resonant diaphragm which consists in softening the surface of a previously hardened gelatinous material.

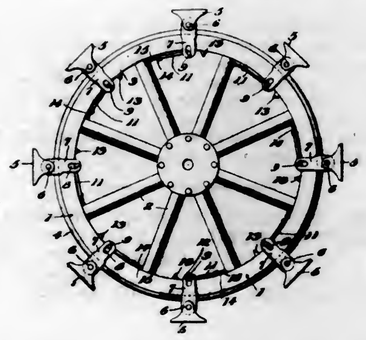
1,377,678. COLLAPSIBLE BOX. HORACE GREENING, Dorchester, England. Filed May 12, 1919. Serial No. 296,566. 2 Claims. (Cl. 217—15.)

1. In the herein described collapsible box in which the side parts and the end parts are provided with corner pieces and hinged to the bottom part so as to be adapted to fold one over the other and over the said bottom part, means for locking the side parts and the end parts to and unlocking the same from each other, the said means comprising a slide catch, and guide plates fitted near the corners and tops of each of the side parts and having



undercut key hole slots and holes respectively, and screw heads secured to the aforesaid corner pieces and adapted to engage with the key hole slots in the catches and the holes in the guide plates, all substantially as set forth.

1,377,679. TRACTION-SHOE FOR VEHICLE-WHEELS. FIDELIO GUASCH, San Nicolas, Cuba. Filed Aug. 21, 1920. Serial No. 405,193. 2 Claims. (Cl. 301—44.)



1. A traction-attachment for vehicle wheels, comprising a shoe unit adapted to straddle the wheel rim and having its sides slotted adjacent their inner ends, and a rock shaft journaled transversely of said rim and having laterally-offset terminals for introduction through the slots in the shoe sides to fasten the shoe to said shaft; the shaft being rockable from a position in which its terminals register with said slots to one in which they are out of register therewith.

1,377,680. AMALGAM-MIXER FOR DENTISTS. LOYD R. HAIGHT, Spokane, Wash. Filed Mar. 17, 1921. Serial No. 453,175. 6 Claims. (Cl. 259—75.)



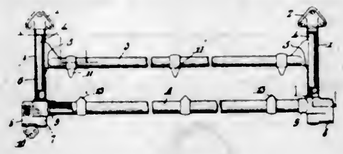
1. An amalgam mixer comprising a support adapted to be attached to a dental engine, a receptacle for amalgam carried by said support, and means for causing the amalgam in said receptacle to be mixed by the operation of the customary belt of the engine.

1,377,681. PREPARATION OF FRUITS FOR FOODS AND BEVERAGES. OSCAR HAYDA, Boston, Mass., assignor of one-third to Edward Bergé-Soler, Newton Highlands, Mass., and one-third to Arthur J. Fotch, Dorchester, Mass. Filed Jan. 18, 1921. Serial No. 438,236. 8 Claims. (Cl. 99—8.)

1. A process of preparing fruit for use in pies, fine pastries, confectionery, ice creams, beverages and other delicacies, which comprises reducing the fruit to a relatively finely comminuted state; sealing the pulp thus obtained in suitable receptacles; and sterilizing the contents of the receptacles by the application of heat.

8. As an article of manufacture, a hermetically sealed, sterilized package of finely comminuted apricot pulp, said pulp possessing substantially all the natural flavor and aroma of the fresh apricots.

1,377,682. ROBE-RAIL. DANIEL OLIVER HENDERSON, Denver, Colo. Filed Oct. 26, 1920. Serial No. 419,626. 2 Claims. (Cl. 45—13.)



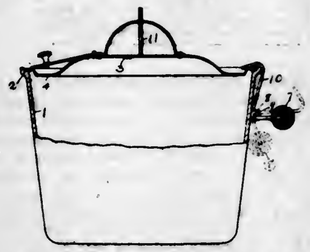
1. A robe rail comprising a main rail, hollow arms connected to the main rail and having longitudinal slots therein, a supplemental rail extending through and capable of movement in said slots of the arms, shanks on the supplemental rail slidable in the hollow arms and means for engaging said shanks for holding the supplemental rail against movement away from the main rail.

1,377,683. BED-PAD. WILLIAM M. HENES, Amherst, Ohio. Filed May 1, 1920. Serial No. 378,097. 1 Claim. (Cl. 5—18.)



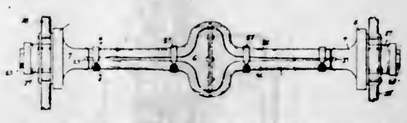
A bed pad comprising a water-proof casing having a perforated upper wall, a bottom wall, regularly spaced yieldable means formed in the casing and connected with the top and bottom walls for spacing said walls apart, and means for passing water through the casing and around the yieldable spacing means.

1,377,684. KETTLE. JOHN C. HOLLANDS, Erie, Pa., assignor to Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1919. Serial No. 281,674. 1 Claim. (Cl. 53—8.)



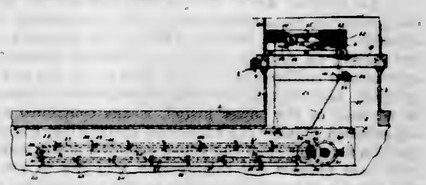
The combination of a kettle having a cover seat thereon and lugs projecting over the seat; a cover mounted on the seat and under the lugs, said cover having a strainer portion; a handle mounted on the kettle; and a locking member retaining the cover in the seat under the lugs actuated by the handle and moved into locking position on the cover as the handle is actuated.

1,377,685. AXLE CONSTRUCTION. LOUIS A. HOTCHKISS and PHILIP W. STOCUM, Oshkosh, Wis.; said Stocum assignor to A. E. Hotchkiss, Oshkosh, Wis. Filed Apr. 15, 1919. Serial No. 290,163. 4 Claims. (Cl. 180—88.)



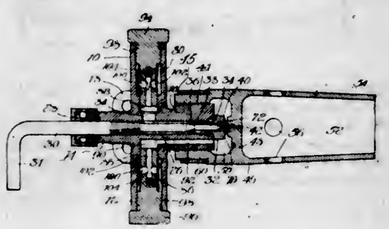
1. In a vehicle, the combination with a drive shaft housing and a drive shaft disposed therein and having one end extending beyond the end of the housing, of a sleeve surrounding a part of the projecting end of the shaft and partly located within the adjacent end of the housing, said sleeve being provided medially of its ends and adjacent the housing with an annular rib, said annular rib abutting the adjacent housing end to limit the telescoping of said sleeve with the housing, a wheel journaled on the portion of the sleeve exteriorly of said annular rib, and means drivingly connecting said drive shaft and wheel.

1,377,686. TRIMMING MECHANISM. GEORGE H. HULETT, Cleveland, Ohio. Filed Feb. 15, 1919. Serial No. 277,257. 6 Claims. (Cl. 193—19.)



1. Trimming mechanism comprising a hopper, a conveyer pivotally connected thereto, a motor on the conveyer, means for tilting the conveyer, means for shifting it laterally, means for moving it longitudinally and means for swinging it in a horizontal plane.

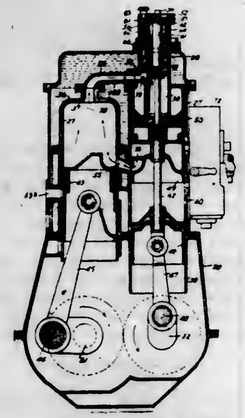
1,377,687. OIL-BURNING TORCH. CHARLES B. JAHNKE, Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 17, 1917. Serial No. 202,445. 3 Claims. (Cl. 158—76.)



1. In a burner, a suitable casing having a passageway provided with a nozzle from whose end combustible fuel is adapted to be ejected, a plate over the end of said nozzle provided with a passage through which oil ejected from the nozzle is adapted to pass, means for conducting air to chamber surrounding the nozzle and bounded in one portion by said plate so as to admit air to the stream of oil

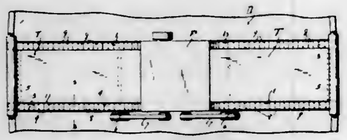
passing from the nozzle through the opening in the plate, means for varying the distance of the plate from the nozzle to vary the amount of air admitted to the stream of oil, and stop mechanism adapted to limit the movement of the plate in two opposite directions toward and from the nozzle, for the purposes set forth.

1,377,688. IGNITION MECHANISM FOR COMBUSTION-ENGINES. JAMES JESSEN, Minneapolis, Minn. Filed Aug. 16, 1919. Serial No. 318,004. 8 Claims. (Cl. 123—143.)



1. An ignition device for internal combustion engines comprising in combination with a low compression power cylinder and piston working therein, an auxiliary cylinder having an ignition chamber, a conduit between said cylinders, a compression plunger working in the auxiliary cylinder, said plunger arriving at maximum compression in advance of the power piston, means controlled by the compression plunger for admitting combustible gas to the ignition chamber from the power cylinder, means co-acting with said plunger for compressing said gas to the ignition point and means controlled by the plunger, for thereafter conducting the ignited gas from the ignition chamber to the power cylinder.

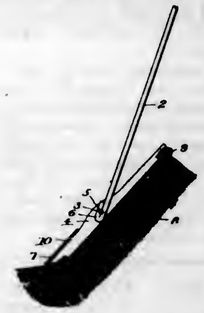
1,377,689. CULLING-TABLE FOR OYSTERS. MYRON G. JONES, Mauricetown, N. J. Filed Jan. 5, 1921. Serial No. 435,198. 3 Claims. (Cl. 17—10.)



1. In combination with a boat deck, a culling table for oysters disposed across the deck and leading to a side thereof, an endless member extending along said table, and means for moving said endless member, said member including an upper stretch traveling outwardly of the table and discharging over the side of the deck, said table having extending therealong a channel in which the upper stretch of the endless member travels.

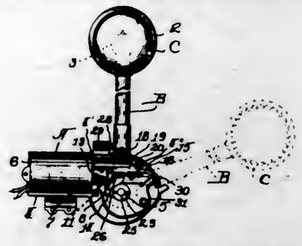
1,377,690. BRUSH FOR CLEANING BOTTLES. CHARLES KLAUBERG, New York, N. Y. Filed Feb. 10, 1920. Serial No. 357,541. 2 Claims. (Cl. 306—11.)

1. In a brush of the character described, the combination with a brush head having a channel portion, of a rigid handle shank having a lapped end portion the adjacent surfaces of which lie flat against each other and the outer surfaces of which are parallel, there being a bore formed partly in each of said lapping portions constituting



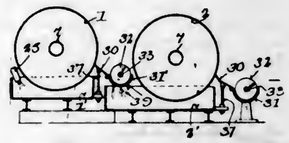
a pivot bearing, and a pivot pin passed through the sides of the channel and said bearing for connecting the brush and shank.

1,377,691. SIGNALING DEVICE FOR VEHICLES. NICHOLAS J. KLOHN, St. Paul, Minn. Filed Aug. 1, 1919. Serial No. 314,593. 8 Claims. (Cl. 177—329.)



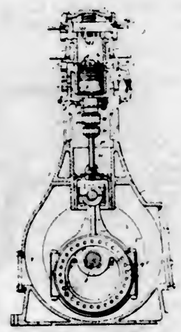
4. In a signal a housing adapted to be attached to an automobile, a rock-shaft journaled in one end of said housing, a signal arm on said shaft, a solenoid coil in the opposite end of said housing, a reciprocating plunger within and adapted to be energized by said coil, a lug on said rock-shaft adapted to be held by the plunger when the same is projected from the coil and the signal arm is erect, a pair of parallel arms pivoted in the outer end of the plunger and a hook formed on said arms, adapted to engage said lug to draw the signal arm into upright position.

1,377,692. COOLER. GEORGE F. KNOX, Milwaukee, Wis., assignor of one-half to Louis G. Bohmrich, Milwaukee, Wis. Filed Dec. 17, 1918. Serial No. 267,133. 2 Claims. (Cl. 257—98.)



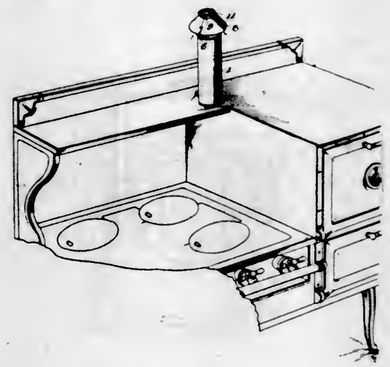
2. In a cooling device the combination of a plurality of revolving drums, means for cooling the drums, means for bringing the substance to be cooled into contact with one of the drums, means for removing the material from this drum and separating the cooled material from the uncooled material, means for bringing the uncooled material from the first drum into contact with another drum of the plurality, and means for removing the material from said other drum of the plurality whereby the substance will be successively cooled by said device and whereby different grades of substance may be separated from each other.

1,377,693. REFRIGERATING-COMPRESSOR. GEORGE F. KNOX, Milwaukee, Wis., assignor, by direct and mesne assignment, to The Unit Ice Machine Co., a Corporation of Wisconsin. Original application filed Dec. 17, 1918. Serial No. 267,132. Divided and this application filed Oct. 24, 1919. Serial No. 332,978. 1 Claim. (Cl. 230—27.)



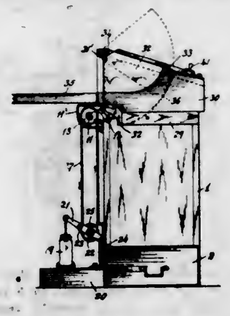
In a refrigerant compressor, the combination of a cylinder, a refrigerant receiving compressor communicating with the lower end thereof and connectible with a substantially low pressure refrigerant supply a compression chamber in the upper end of said cylinder, a valve controlled outlet leading from said compression chamber, a piston working in said cylinder, means carried by the piston for conducting the refrigerant from said refrigerant compartment into the compression chamber upon the down stroke of the piston, a port communicating with the interior of the cylinder at a point spaced substantially level with the top of said piston when at its lowermost position, and means connecting said inlet port with a relatively high pressure refrigerant supply, said piston functioning as a valve and controlling the ingress of the high pressure refrigerant into said compression chamber after said chamber has first been filled with the low pressure refrigerant whereby the pressure of said low pressure refrigerant will be increased to that of said high pressure refrigerant.

1,377,694. FILTERING-FLUE FOR GAS-RANGES. MAXEMILEAN E. KOEHLER, Washington, D. C. Filed Dec. 3, 1920. Serial No. 428,044. 6 Claims. (Cl. 183—4.)



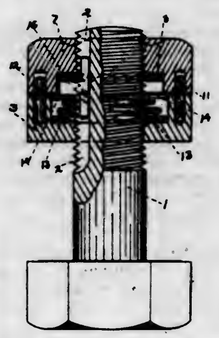
1. An attachment for gas, electric or oil cooking ranges, comprising a flue to receive the air rising from the articles being cooked, a filter bed formed of wire removably supported within said flue, and a hood removably supported by said filter bed above the flue.

1,377,695. CONTAINER. CHARLES H. KORS, Philadelphia, Pa. Filed Nov. 19, 1918. Serial No. 263,136. 4 Claims. (Cl. 131—48.)



1. In a container, the combination of a receptacle, a vertically movable platform therein for supporting the contents of said receptacle, and means for elevating said platform, said receptacle having an opening at its upper end and automatically operating closing means for said opening, and a curtain within said receptacle extending downwardly toward said platform and dividing the receptacle into compartments, and means for taking up said curtain as said platform rises, said opening extending to both of said compartments.

1,377,696. NUT-LOCK. FRANK KRONBERG, Seattle, Wash. Filed Nov. 29, 1920. Serial No. 426,952. 2 Claims. (Cl. 151—9.)

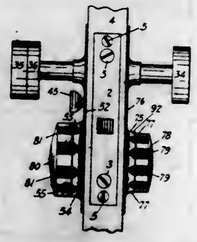


1. A device of the class described, comprising in combination with a bolt having a longitudinal channel along its threaded portion and terminating at the end thereof, a nut provided with a circular outlined recess, located within the recess a spiral spring surmounted by a washer each having a circular opening to admit the bolt, said washer being of a diameter but slightly smaller than the diameter of said recess, a pawl slidably located in said channel and coacting with the washer and spring, a complementary nut having a circular outlined recess of a diameter smaller than the recess in the first nut and having interiorly thereof ratchet teeth circumferentially located and adapted to coöperate with said pawl, means whereby said nuts may be placed and held together in operative position.

1,377,697. COMBINATION-LOCK. MATTHIAS F. KUNTZ, Dayton, Ohio. Filed Mar. 29, 1920. Serial No. 369,647. 10 Claims. (Cl. 70—53.)

1. A combination lock comprising a locking mechanism, a knob for operating said locking mechanism, means for setting said locking mechanism against operation until a set combination is secured by turning said knob, a sta

tionary annular member containing finger-tip recesses in its periphery, in proximity with which the knob is adapted to be rotated to bring finger-tip recesses in its periphery into registry with the recesses in the stationary member,



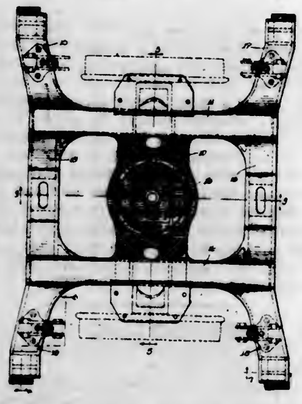
and means for silently arriving at the set combination by turning said knob, in each direction, to a point which the complete or partial registry of certain recesses indicates to the human fingers, is the limit of the movement of the knob in that direction for the set combination.

1,377,698. TRUCK CONSTRUCTION. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 20, 1920. Serial No. 411,601. 9 Claims. (Cl. 105—166.)



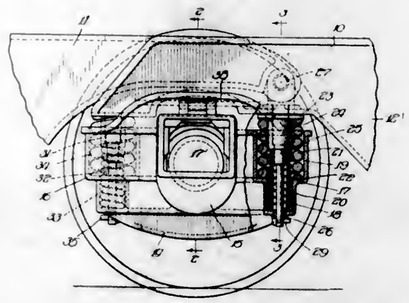
1. In a six-wheel truck, the combination of an articulated side frame having overlapping frame members, a plurality of journal boxes associated with said frame members, one of said journal boxes being located at the overlapping portions of said frame members with the inner ends of said frame members transmitting loads to opposite sides of said one journal box whereby loads on all journal boxes are divided substantially equally, and resilient means interposed between said one journal box and said frame members for increasing the total amount of dead load resiliently supported.

1,377,699. RAILWAY-CAR-BOLSTER ARRANGEMENT. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 20, 1920. Serial No. 411,602. 6 Claims. (Cl. 105—195.)



1. A railway car truck including a hinged side frame and a bolster having a plurality of arms with curved bearing surfaces adapted to rock on a coöperating bearing surface to prevent distortion of parts when vertical track curves are encountered.

1,377,700. SIDE FRAME AND JOURNAL-BOX. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 20, 1920. Serial No. 411,603. 10 Claims. (Cl. 105—224.)



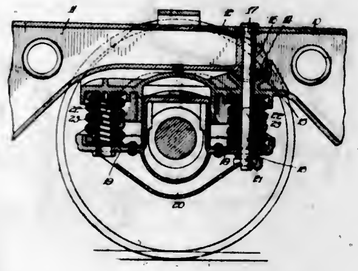
1. In a railway car truck, the combination of an articulated side frame, a journal box, and means connecting said journal box to the articulated side frame members and also pivotally connecting the latter.

1,377,701. TRUCK-SIDE-FRAME ARRANGEMENT. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 20, 1920. Serial No. 411,604. 13 Claims. (Cl. 105—166.)



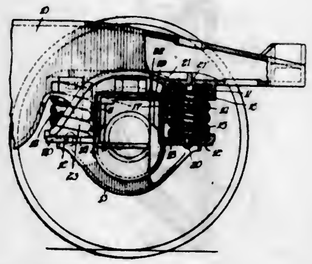
1. A railway truck side frame having a plurality of telescopically-arranged articulated parts connected to permit relative vertical and horizontal movements.

1,377,702. RAILWAY-CAR TRUCK. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 8, 1920. Serial No. 422,462. 5 Claims. (Cl. 105—195.)



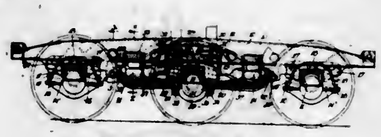
1. In a railway car truck, the combination of articulated side frame members, and a vertically arranged pivot pin passing through openings in said side frame members, one of said openings being formed to permit relative vertical movement between said side frame members.

1,377,703. RAILWAY-TRUCK ARRANGEMENT. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 8, 1920. Serial No. 422,463. 8 Claims. (Cl. 105—224.)



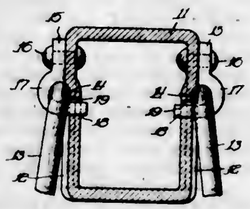
1. In a railway car truck, a truck side frame having an integrally formed wall portion forming a depending pocket for the reception of a spring at the side of an associated journal box.

1,377,704. RAILWAY-CAR TRUCK. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,412. 11 Claims. (Cl. 105—195.)



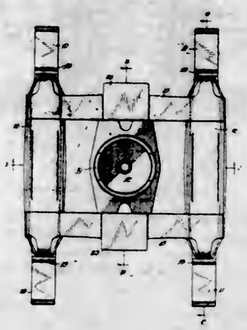
2. In a railway car truck of the six-wheel type, the combination of a side frame, an intermediate journal box, equalizing levers pivotally supported on said side frame and operatively connected to said journal box for transmitting a load thereto, and bolster members mounted directly on said equalizing levers for transmitting loads therethrough for reducing the width of the bolster, increasing the space for brakes, and reducing the wheel base.

1,377,705. TRUCK FOR RAILWAY-CARS. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,413. 4 Claims. (Cl. 105—227.)



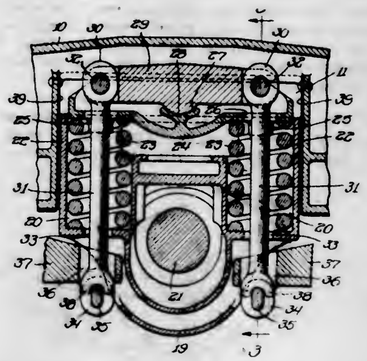
1. In a railway car truck, the combination of a support having a depressed face, a brake hanger mounted to move in said depressed face to reduce the length of the wheel base, and a bracket secured to said support and embracing the hanger for retaining the latter in operative position.

1,377,706. TRUCK-BOLSTER. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,414. 11 Claims. (Cl. 105—188.)



1. A railway car truck bolster including, in combination, two cross bolster members, and an equalizing bolster member having girder members bearing normally on the middle of said cross bolster members and having a limited amount of rocking movement with respect thereto to insure equalization of the load to the ends of said cross bolster members.

1,377,707. RAILWAY-CAR-TRUCK EQUALIZING ARRANGEMENT. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,415. 7 Claims. (Cl. 105—195.)

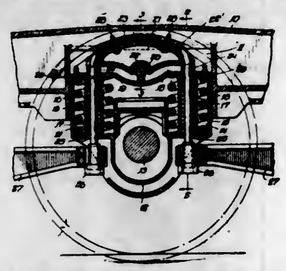


1. In a railway car truck, the combination of a journal box, springs carried by said box on opposite sides thereof, a cap member bridging said springs, an equalizing beam movably mounted on said cap member, and hanger rods connected to said beam on opposite sides of its center whereby loads are transmitted and distributed to said journal box.

1,377,708. SIX-WHEEL EQUALIZER-TRUCK. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,416. 5 Claims. (Cl. 105—195.)

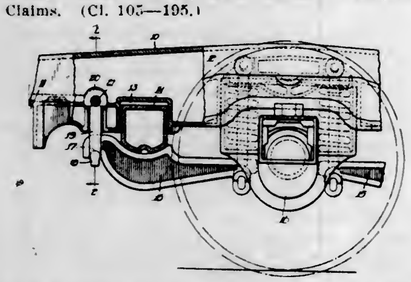
1. In a railway car truck, the combination of a journal box, springs carried on opposite sides thereof, a spring cap bridging said springs, an equalizing beam, said cap

and beam having a connection whereby one may be rotated on the other, and a cable secured to said beam



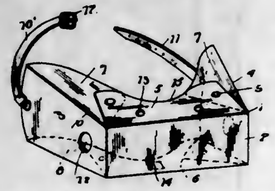
whereby loads may be transmitted to the latter and equalized with respect to said journal box.

1,377,709. TRUCK-EQUALIZING ARRANGEMENT. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,417. 3 Claims. (Cl. 105—195.)



3. In a railway car truck, the combination of a support, a bolster associated with said support, an equalizing lever for directly carrying said bolster, and a hanger connected to said support and to said equalizing lever whereby lengthwise directed operating shocks may be absorbed by said support and bolster.

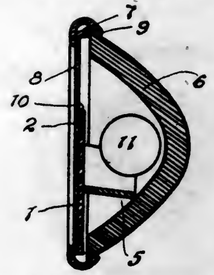
1,377,710. SANITARY MASK. JOSEPH EDOUARD LEDUC, Montreal, Quebec, Canada. Filed Feb. 3, 1920. Serial No. 356,095. 1 Claim. (Cl. 128—139.)



In a mask such as described, the combination of a single blank of material, comprising front and side members, flanges formed upon the opposite edges of said front and side members, said flanges overlapping, rivets extending through the overlapping portion of the flanges for securing the same together, and the flanges when overlapped forming a continuous curved line to engage the face of the wearer, said flanges formed upon the front member having openings therein, and the side members also having openings therein, with straps formed upon the side members for strapping the mask to the face of the wearer.

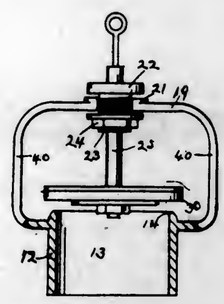
1,377,711. HEADLIGHT-DIMMER. PERCY HORACE LETCHFORD and GEORGE HENRY SALTMARSH, Winnipeg, Manitoba, Canada. Filed Feb. 5, 1919. Serial No. 275,265. 2 Claims. (Cl. 240—48.4.)

1. The combination with a headlight comprising a parabolic reflector, a lamp located at the focal point of the said reflector and a closure glass inclosing the front of the reflector, of a semi-circular mask plate fitting against and covering the lower inside half of the closure glass and provided with an upward semi-circular extension located in the plane of the plate and of greater radius than the



lamp and positioned directly in front of the lamp and a substantially semi-circular reflector carried by and inclining downwardly and extending inwardly from the central part of the plate to a point adjacent the parabolic reflector and surrounding the under half of the lamp.

1,377,712. FLUSH-TANK APPARATUS. SAMUEL W. LEWIS, Brooklyn, N. Y. Filed May 18, 1920. Serial No. 382,320. 6 Claims. (Cl. 4—5.)



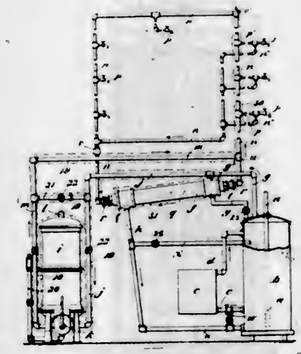
1. The combination in a flush tank apparatus, of a valve body having a discharge outlet, a support above the valve body having a passageway through its axial with said outlet, a guide collar within said passage and carrying a valve to close the outlet, said passage being open on one side to permit laterial removal of the collar and valve, substantially as described.

1,377,713. METHOD OF SEPARATING AND RECOVERING NICKEL. ALEXANDER MCKECHNIE, Birmingham, England. Original application filed May 3, 1920, Serial No. 378,537. Divided and this application filed Sept. 17, 1920. Serial No. 410,925. 2 Claims. (Cl. 75—17.)

1. The method herein described of separating nickel from cupro-nickel alloy, or other material containing metallic copper and nickel in the metallic state, said method consisting, essentially, in reducing the material to a molten state and bessemerizing the same in a basic converter, continuing the bessemerizing until the whole or a substantial part of the nickel is volatilized out, and collecting the vapor or fumes as nickel oxid.

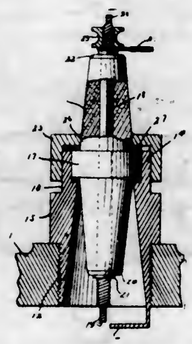
1,377,714. APPARATUS FOR SUPPLYING HOT WATER IN HOUSES. JOSEPH T. MANNING and CHARLES F. CLUDIUS, Philadelphia, Pa., assignors to Loomis-Manning Filter Manufacturing Company, Camden, N. J., a Corporation of New Jersey. Filed Mar. 1, 1917. Serial No. 151,832. 16 Claims. (Cl. 137—79.)

1. Apparatus for supplying hot water in houses, comprising the following elements in addition to and in combination with water heating and hot water storing means, a filter, a pipe line, and faucets on said pipe line, namely: a chamber, pipe connections whereby said chamber is included in an endless circuit with an appropriate part at least of said water heating and hot water storing means, a chamber arranged relatively to the former chamber for



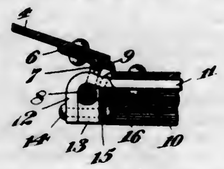
transfer of heat between their respective contents, pipe connections whereby this latter chamber is included in an endless circuit with said pipe line, pipe connections whereby water from said water heating and hot water storing means is conveyed to the filter inlet, and pipe connections whereby water is conveyed from the filter outlet to said pipe line circuit, substantially as described.

1,377,715. SPARK-PLUG. EARL H. MELENDY, Shellrock, Iowa. Filed Sept. 21, 1917. Serial No. 192,562. 4 Claims. (Cl. 123—169.)



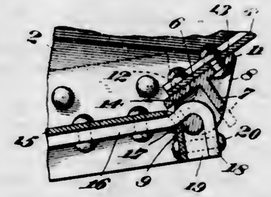
1. A spark plug comprising a sleeve having an electrode, a porcelain reversibly held in the sleeve and an electrode fixed in the porcelain in position for operative relation to the electrode of the sleeve in both positions of the porcelain.

1,377,716. CAR-REINFORCEMENT AND DOOR-HINGE. LOUIS G. MILLER, Westmont borough, Pa. Filed Feb. 18, 1921. Serial No. 446,059. 8 Claims. (Cl. 105—280.)



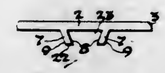
1. A reinforcing bar of angular section secured by one of its legs or flanges to a car bottom adjacent to the door opening thereof, one of its legs or flanges being provided with a bulb of substantially circular section, integral with the rest of the bar, adapted to form one member of the door hinge.

1,377,717. COMBINED STIFFENER AND CAR-DOOR HINGE. LOUIS G. MILLER, Westmont borough, Pa. Filed Feb. 18, 1921. Serial No. 446,060. 7 Claims. (Cl. 105—280.)



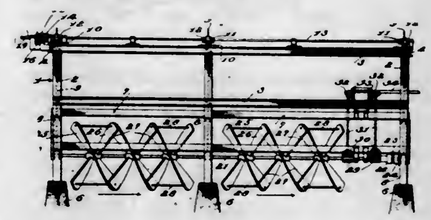
1. A car stiffener having a portion adapted to be secured to the car adjacent the door opening thereof and provided with integral strengthening flanges projecting outwardly therefrom and one or more hinge pintle portions, integral with said stiffener.

1,377,718. CONCRETE OR LIKE BUILDING-BLOCK OR SLAB. JOHN MORGAN, Melbourne, Victoria, Australia, assignor to Daniel Murray, Melbourne, Victoria, Australia. Filed Sept. 14, 1920. Serial No. 410,255. 3 Claims. (Cl. 72—29.)



2. A wall structure comprising an inner portion and an outer portion formed of layers of blocks, alternate layers of each portion being formed with blocks having pairs of ribs inclined toward each other formed in the central portion, the intermediate layers having blocks formed with inclined ribs near each end thereof, the joint between blocks being intermediate the joints of the blocks in the alternate layers, so that similar ribs will be in alinement, the corresponding alined ribs of each wall portion contacting at the ends and forming columns, and a filler for the columns for reinforcing the wall portions and locking them together.

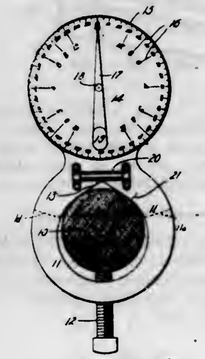
1,377,719. WATER-MOTOR. WILLIAM ROY MORRIS, Boise, Idaho, assignor to The Universal Engineering and Power Company, Boise, Idaho, a Corporation of Idaho. Filed Oct. 12, 1920. Serial No. 416,435. 5 Claims. (Cl. 170—131.)



1. A water motor including a stationary frame having corner posts provided with guiding means, a vertically adjustable frame having end members engaging said guiding means for guiding the adjustable frame vertically, and means for raising and lowering said adjustable frame including a plurality of threaded rods fixed to the adjustable frame and extending above the stationary frame, gears

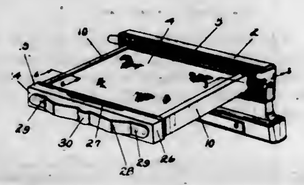
having internal threads engaging the threaded portions of said rods, a plurality of parallel shafts extending longitudinally of the stationary frame and provided with gears which engage the other gears, a plurality of cross shafts having gears at their outer ends, gears provided upon the ends of the longitudinally disposed shafts and engaging the gears of the cross shafts, gears provided upon the inner ends of said cross shafts, a common gear for driving the last named gears, and manually operated means for driving said common gear.

1,377,720. INDEX-HEAD. ABNER R. NEFF, Los Angeles, Calif. Filed Apr. 16, 1918. Serial No. 228,982. 5 Claims. (Cl. 33—215.)



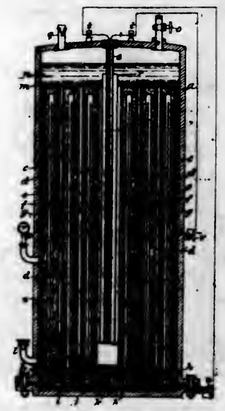
1. An index head for indicating relative angular positions of work to which it is attached, consisting exclusively of a member adapted to be clamped upon the work and gravity controlled angle indicating means connected to said member, said angle indicating means comprising a relatively movable graduated circle and indicating pointer.

1,377,721. DUST-BAG STRUCTURE FOR VACUUM-CLEANERS. IRA J. OWEN and BERNARD J. BOUWMEESTER, Grand Rapids, Mich., assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Filed Apr. 30, 1920. Serial No. 377,969. 7 Claims. (Cl. 183—37.)



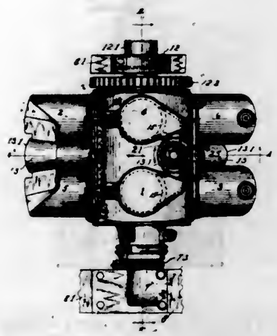
1. In a dust bag structure, the combination with the nozzle block, of a base plate secured thereto, having projecting flanges at the discharge mouth from the said nozzle block, outer side pieces of flexible metal in channel form suitably joined to the said plate and flanges, cross bars connecting the outer ends of said side pieces together and provided with folding flanges thereon, a dust bag disposed within said frame with its outer end embracing the outer end of said frame and retained by said flanges, and its inner end disposed within and beneath the flanged base plate, and retaining inner side bars conformed to the flanged outer sides with the ends folded over the fabric of the said dust bag, clamping the same in position, and with outwardly turned end lugs engaging within the mouth of the said base plate, all coacting substantially as described for the purpose specified.

1,377,722. ELECTRIC ACCUMULATOR. GUGLIELMO MARCONI, London, England. Filed Mar. 9, 1918. Serial No. 221,501. 16 Claims. (Cl. 204—29.)



1. In an electric accumulator, the combination of a closed container, electrodes therein, and an electrolyte in said container containing chlorin ions, the interior of said container being normally under pressure.

1,377,723. MOTOR. GLENN MUFFLY, Chicago, Ill. Filed July 11, 1917. Serial No. 179,847. 6 Claims. (Cl. 123—44.)

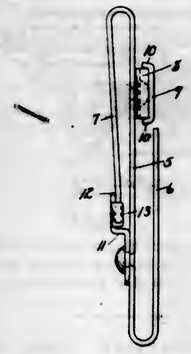


1. A rotary valve, a seat therefor, a stem co-turnably attached to said valve, means for rotating said stem, said means being connected co-turnably to said stem and being slidable lengthwise with respect thereto, the connection of the stem to the valve being rigid and the said means for rotating the stem having splined connection thereto, adjustable means for limiting the longitudinal movement of said stem in one direction, and resilient means urging said stem in the opposite direction.

1,377,724. SAFETY KEY-RING HOOK. JOHN JOSEPH PAVLIK, Jr., New Haven, Conn. Filed Jan. 21, 1921. Serial No. 439,013. 1 Claim. (Cl. 24—232.)

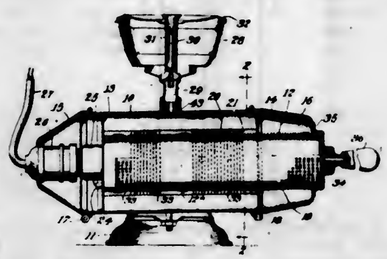
A safety key ring hook comprising a strip of metal including a medial portion and hooks at the opposite ends thereof, latches pivotally secured to opposite faces of the medial portions at points beyond the ends of the hooks

and adapted to be turned into or out of engagement therewith, the said latches formed on opposite sides with in-



wardly projecting fingers adapted to set over the sides of the ends of the hooks, whereby the latches are prevented from rotating and disengaging from the hooks.

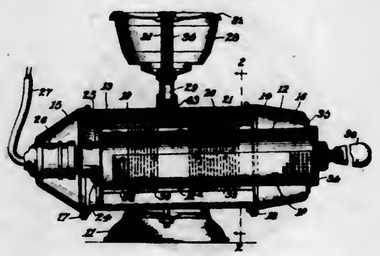
1,377,725. METHOD OF STERILIZING SURGICAL INSTRUMENTS AND OTHER ARTICLES. JAMES BOLTON PENTZ, New York, N. Y. Filed Mar. 4, 1915. Serial No. 11,951. 9 Claims. (Cl. 167—3.)



1. The herein described method of sterilizing which consists in subjecting the article to be sterilized to a temperature above the boiling point of water, in the presence of steam at substantially atmospheric pressure.

8. The herein described method of sterilizing, which consists in subjecting the article to high temperature radiated heat and at the same time to steam at substantially atmospheric pressure.

1,377,726. STERILIZER. JAMES B. PENTZ, New York, N. Y. Original application filed Mar. 4, 1915, Serial No. 11,951. Divided and this application filed June 25, 1910. Serial No. 306,525. 14 Claims. (Cl. 167—3.)

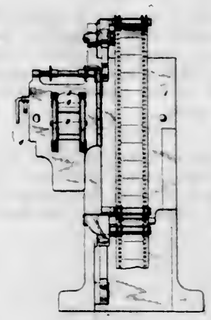


1. In a sterilizer for surgical instruments and other articles, a casing, a drawer removably inserted in the casing to hold articles to be sterilized, adapted to admit steam to its interior and permitting communication with the atmosphere, the drawer within the casing being spaced therefrom to provide a steam space, and means inside the casing and outside of the drawer to heat the latter, whereby articles in the drawer are subjected to steam from said steam space at a high temperature and at atmospheric pressure.

4. In a sterilizer for surgical instruments and other articles, a casing; a drawer for articles to be sterilized removably inserted in the casing, adapted to admit steam to its interior and permitting communication with the atmosphere; stationary heating element comprising an electrical resistance encircling the drawer inside the casing to heat the interior of the casing and drawer; and means for delivering water into the casing for the production of steam; whereby articles in the drawer are subjected to steam at a high temperature and at atmospheric pressure.

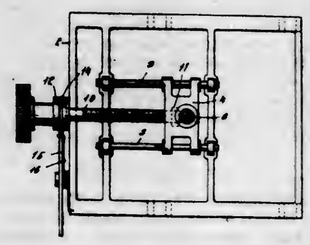
14. In a sterilizer for surgical instruments and other articles, a steam chamber in communication with the atmosphere to maintain substantially atmospheric pressure therein, a drawer of foraminous material arranged in the casing, and means for heating the drawer.

1,377,727. FILM-LUBRICATING DEVICE. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed June 19, 1916. Serial No. 104,532. 7 Claims. (Cl. 88—17.)



1. In a mechanism of the class described, the combination of a film-feeding mechanism and means adjacent the path of the film for maintaining a piece of graphite against the marginal edges of the film as it is advanced by said feed mechanism.

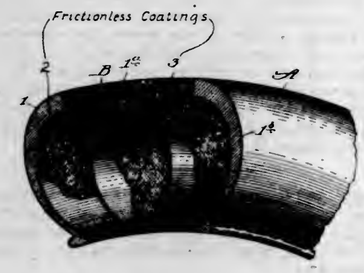
1,377,728. LAMP FOR PROJECTING APPARATUS. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 10, 1917. Serial No. 141,722. 5 Claims. (Cl. 176—51.)



5. In a lighting equipment for projecting apparatus, the combination of a lamp, housing therefor, a screw mecha-

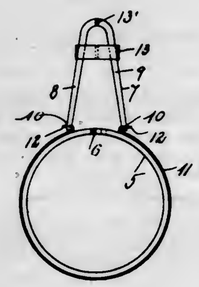
nism for effecting minute adjustment of the lamp within said housing comprising a screw normally held stationary relative to the frame of the projecting apparatus, and means for releasing the screw and permitting it extensive longitudinal movement and subsequently permitting its return to the exact position occupied previous to said extensive movement.

1,377,729. PROCESS OF APPLYING LUBRICANT TO TIRE-CASINGS. WILLIAM F. RAY, Chicago, Ill. Filed Apr. 23, 1919. Serial No. 292,045. 2 Claims. (Cl. 91—68.)



1. The method of applying a lubricating coating to a surface of a rubber tire, or the like, which consists in mixing pulverulent mica with gasolene or the like, applying same as a thin liquid paint to the surface, thereby causing softening of the surface and impregnation of the rubber surface by the mica.

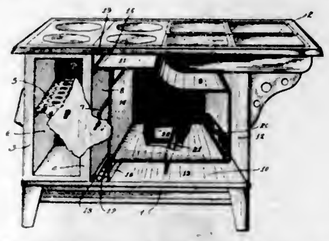
1,377,730. PISTON-RING-CLOSING DEVICE. ELMER J. ROGERS, Quincy, Mass., assignor to Standard Piston Ring Co., Boston, Mass., a Corporation of Massachusetts. Filed Dec. 6, 1919. Serial No. 343,080. 2 Claims. (Cl. 81—3.)



1. A piston ring closing device having, in combination, a U-shaped member in one piece having a hole in each of the legs thereof adjacent their outer ends, said holes being oppositely disposed to and substantially in alinement with each other, a band extending around said legs and slidable thereon, whereby said legs may be forced toward each other and a flexible wire band with a hook on each of its ends adapted to engage the holes in said legs.

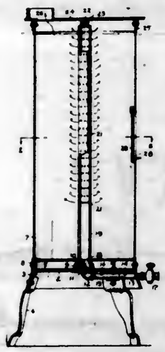
1,377,731. COMBINED GASEOUS AND SOLID FUEL RANGE. HENRY H. SANFORD, Mansfield, Ohio. Filed Apr. 24, 1920. Serial No. 376,392. 2 Claims. (Cl. 126—36.)

1. In a combined gaseous and solid fuel stove, an oven secured within the stove having communicating flues surrounding the oven except at one end, said end being spaced apart from and secured to and in close proximity to the



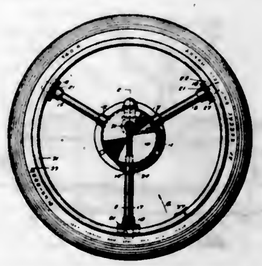
fire box to form an independent flue, means to close the top of the last mentioned flue, a damper secured in said flue, a burner for gaseous fuel located at the bottom of said flue.

1,377,732. GAS HEATING-STOVE. STEFAN SCHREDER and NIKOLAUS SCHREDER, Cleveland, Ohio. Filed Feb. 27, 1920. Serial No. 361,674. 2 Claims. (Cl. 126—85.)



1. A gas heating stove, comprising a base plate having a central air opening and seat for a tubular burner, a gas supply connection adapted to discharge into said opening, a tubular burner having a series of openings radially and longitudinally thereof and seated at its lower end upon said seat, an inclosing cylinder extending upwardly from said base plate to the same height as said burner, a cover plate for said cylinder having a central socket at its bottom side and a flanged stove pipe opening at its top, and said burner tube having an extension confined within said socket to hold the tube centrally in an upright position within said cylinder.

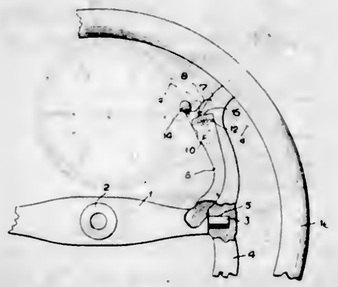
1,377,733. TIRE-RACK. RUEL I. SHORT, San Francisco, Calif. Filed Jan. 23, 1920. Serial No. 353,500. 4 Claims. (Cl. 224—29.)



3. In a tire rack, a pair of fixed supports, a movable support therebetween, combined unitary rim and tire engaging

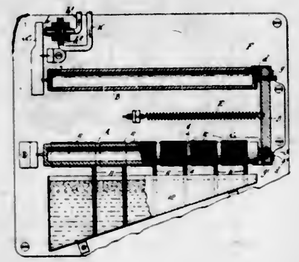
means borne by the movable support, and means to actuate the movable support away from the fixed supports thereby to break the joint in the tire rim and to cause the clencher bead of the tire to simultaneously be moved away from its flange.

1,377,734. STEERING-WHEEL. GRANT E. SMITH, Poughkeepsie, N. Y., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y., a Corporation of New York. Filed Jan. 22, 1919. Serial No. 272,455. 13 Claims. (Cl. 74—33.)



1. A steering wheel comprising a spider having a central transverse member, a rim, members for supporting said rim, and means for locking together the transverse member and one of said members at a point remote from the longitudinal axis of said transverse member.

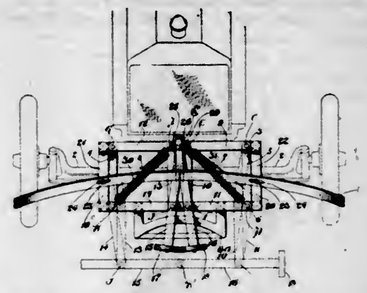
1,377,735. THERMORESPONSIVE INSTRUMENT. ALFRED E. STACEY, Jr., Chicago, Ill., assignor to Carrier Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1917. Serial No. 190,061. 10 Claims. (Cl. 236—44.)



1. A thermoresponsive instrument including an element which is affected by changes in temperature, means for causing a portion of said element to be subjected to the wet bulb temperature of the surrounding air so as to respond to changes in said wet bulb temperature, and means for changing the extent of the portion of the element which is subjected to the wet bulb temperature, whereby the thermoresponsive action of the element changes in accordance with the changes in extent of the portion of the element subject to the wet bulb temperature.

1,377,736. FENDER FOR AUTOMOBILES AND TRUCKS. GEORGE STEENSTRA, St. Louis, Mo., assignor of one-half to Louis Van Berg, St. Louis, Mo. Filed May 14, 1920. Serial No. 381,303. 3 Claims. (Cl. 293—25.)

1. A fender comprising a frame disposed between the front wheels of a vehicle, members foldable upon said frame adapted to enlarge the supporting surface of the



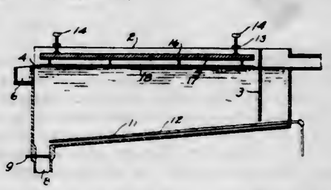
fender, and means for automatically extending said members relative to said frame.

1,377,737. COMBINATION-LOCK. PETER H. STOSECH, Cliffside, N. J. Filed Mar. 26, 1920. Serial No. 369,145. 12 Claims. (Cl. 70—55.)



1. A device of the character described, comprising, in combination, three or more hasp or keeper engaging bolt members, and movable means adapted, when in a predetermined position, to prevent unlocking movement of three of said bolt members.

1,377,738. APPARATUS AND PROCESS FOR SEPARATING AND RECOVERING FINE METALLIC PARTICLES FROM PULP. ARTHUR C. THANE, Chewelah, Wash. Filed Apr. 23, 1918. Serial No. 230,368. 8 Claims. (Cl. 83—68.)

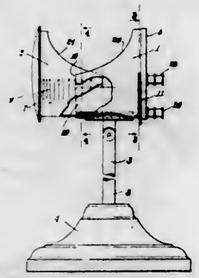


1. In an apparatus of the character described, a tank adapted to contain pulp, an amalgamated plate, means for suspending said plate adjacent to the surface of the pulp in said tank, and an amalgamated foraminated plate disposed between and spaced from said first plate and the surface of the pulp.

1,377,739. ADHESIVE. JOHN H. THICKENS, Bathurst, New Brunswick, Canada, assignor to The Beaver Company, Buffalo, N. Y., a Corporation of Ohio. Original application filed Jan. 20, 1915, Serial No. 3,396. Divided and this application filed Dec. 27, 1917. Serial No. 209,058. 4 Claims. (Cl. 87—17.)

1. The process which consists in thoroughly mixing sodium silicate of about 35° Baumé with about 80% by weight of clay, and allowing the mixture to stand for a period of about an hour to permit the clay to absorb silicate, thereby producing a slow-setting adhesive of relatively high viscosity suitable for use in bonding the plies of a laminated wall board, substantially as described.

1,377,740. SCHEMATIC EYE FOR SKIASCOPY. MANUEL URIBE-TRONCOSO, New York, N. Y., assignor to William Uribe-Troncoso, New York, N. Y. Filed June 10, 1920. Serial No. 387,815. 14 Claims. (Cl. 35—16.)



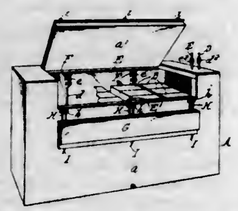
12. A schematic eye comprising a lens, a diagrammatic retina, means for supporting the same in spaced relation and permitting direct observation of the retina from a point in front of and independently of the lens, said retina having a scale upon a portion thereof, said supporting means permitting illumination of the scale carrying portion of the retina from the rear.

1,377,741. FAVOR. JAY H. WOOLHISER, Elmhurst, N. Y. Filed July 19, 1918. Serial No. 245,639. 3 Claims. (Cl. 46—46.)



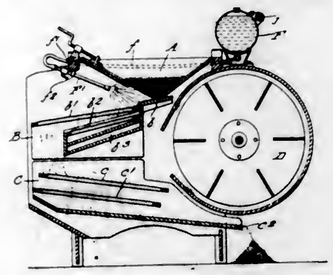
1. The method of making firing strips for articles of the class described which consists in slitting a web of paper transversely into strips and then applying to the paper while the strips are still positioned as in the original web a stripe of abrasive material and a stripe of explosive material separated from the abrasive material, the stripes extending transversely of the strips and longitudinally of the web.

1,377,742. PASTEURIZER. KIRK K. WRIGHT, Buffalo, N. Y., assignor of one-half to Ralph G. Wright, Buffalo, N. Y. Filed July 6, 1917. Serial No. 179,027. 8 Claims. (Cl. 126—272.)



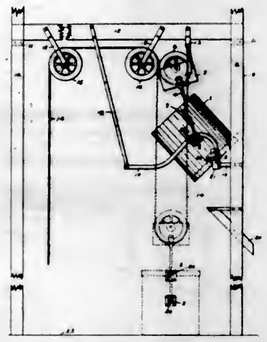
1. A pasteurizer including a receptacle adapted to contain the articles to be pasteurized, a pipe for admitting steam to the bottom of said receptacle, and an ejector in said pipe arranged in the upper portion of said receptacle, said ejector mixing the incoming steam with air and steam drawn into the ejector from the upper portion of the receptacle and causing the mixture to be discharged into the bottom of said receptacle.

1,377,743. APPARATUS FOR TREATING GRAIN OR THE LIKE. PAUL V. AUSTIN, Buffalo, N. Y. Filed May 31, 1919. Serial No. 301,025. 4 Claims. (Cl. 83—27.)



1. In an apparatus for treating grain, the combination of means for cleaning and separating the grain, means for spreading the grain in a thin layer on said cleaning and separating means, means for treating the grain with an atomized spray of disinfecting agent as the grain passes onto the cleaning and separating devices, and means in said apparatus for simultaneously removing moisture from the treated grain and separating foreign matter therefrom while the same is passing through said apparatus.

1,377,744. HOISTING APPARATUS. MORVAN N. BAKER, Dorchester, Nebr. Filed Mar. 5, 1920. Serial No. 363,540. 4 Claims. (Cl. 214—116.)

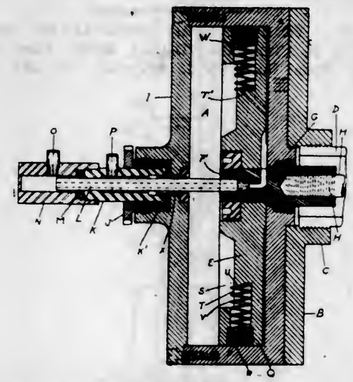


1. Hoisting apparatus comprising a bucket body having trunnions and self-righting thereon, a bail spanning the bucket body and having terminal eyes wherein the trunnions may turn, a grooved pulley mounted on the bail, a rope running on the pulley, for raising and lowering the bucket, a pair of lugs projecting from the bucket body in parallelism with the trunnions, and an overhead single-course two-rail track adapted to be traveled by the trunnions and the lugs.

1,377,745. PNEUMATIC MOTOR. JOSEPH F. BUHR, Detroit, Mich., assignor to Detroit Pneumatic Chuck Company, Flat Rock, Mich., a Corporation of Michigan. Filed Mar. 1, 1920. Serial No. 362,526. 3 Claims. (Cl. 74—109.)

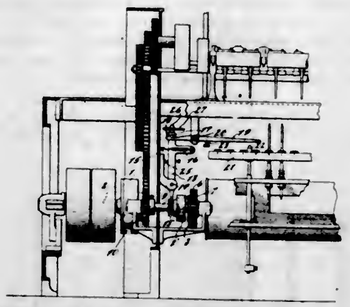
1. In a pneumatic motor, the combination with a cylinder, a piston within said cylinder having a peripheral

groove therein, and a series of radially extending cored pockets communicating with said groove, the inner ends of said pockets being also in communication with an annular recess in one side of said piston, packing material



within said groove, and springs insertible into said pockets through said annular recess having one end thereof abutting against the inner end of the pocket and the outer end exerting a resilient tension against said packing.

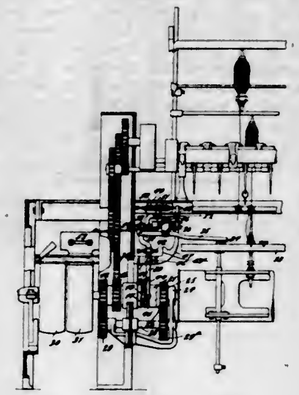
1,377,746. METHOD OF AND APPARATUS FOR THE PRODUCTION OF WEFT OR COPS ON WEFT RING-SPINNING MACHINES. MAURICE CHANÉ, Rouen, France. Filed Apr. 7, 1917. Serial No. 160,364. 11 Claims. (Cl. 118—32.)



1. The method of building a weft cop in a ring spinning frame, which comprises giving to the thread from the beginning of the formation of the cop until near the middle of the formation of the cop bottom, a constant twist, then suddenly decreasing the amount of twist during the remainder of the formation of the cop.

1,377,747. APPARATUS FOR THE PRODUCTION OF WEFT SPOOLS OR COPS ON WEFT RING-SPINNING MACHINES. MAURICE CHANÉ, Rouen, France. Filed June 8, 1917. Serial No. 173,471. 12 Claims. (Cl. 118—32.)

1. In spinning machines the combination of drawing mechanism, a drive shaft, a cop spindle driven by said shaft, means for rotating the shaft, a device for rendering said means effective and ineffective at will, means connecting the drawing mechanism to said shaft for operating the drawing mechanism at two different speed ratios with respect to the shaft, said connecting means having a controlling element through operation of which the speed ratio is changed, automatic means operative when the formation of the cop has reached a desired stage for causing a sudden movement of the controlling element to change the speed ratio, mechanism controlled by said device when rotation of the shaft is stopped for causing a sudden movement of the controlling element to change the speed ratio, and means also controlled by the device, when the latter is operated to render the shaft rotating means again effective in rotating the shaft, for restoring the said mechanism to its original position.



2. In ring spinning machines, the combination of the ring rail, means for driving the cops windings mechanism, means for controlling the activity of the machine, means settable to cause said driving means to operate at a plurality of different speeds including a controlling member, means controlled by the ring rail for suddenly operating the controlling member in one direction to change the speed of the driving means when the formation of the cop has been partially completed, means operative when released for suddenly operating the controlling member in the other direction to position the settable means for a further change in the speed at which the winding mechanism will be driven, means operated by the activity controlling means for holding and releasing the last named sudden operating means when the machine is rendered inactive and for restoring the same to its held position when the machine is again rendered active.

3. In ring spinning machines, the combination of a ring rail, means for driving cops winding mechanism, a member for controlling the activity of the machine, means settable to cause said driving means to operate at two different speeds, means controlled by the ring rail for suddenly operating the settable means to change the speed when the formation of the cop has been partially completed, means controlled by the activity controlling member when operated to stop the machine, for again suddenly operating the settable means to a condition to produce a further change in the speed of the winding mechanism when the machine is again made active.

4. In a ring spinning machine, the combination of a ring rail, means for driving the cops winding mechanism, a member for controlling the activity of the machine, means settable to two positions to cause the said driving means to operate at two different speeds, a shiftable member for operating said settable means to change the speed, a spring normally normally tending to shift the shiftable member to change the speed, a latch normally holding the shifting member against movement by the spring and adapted to be tripped by the ring rail when the formation of the cop has been partially completed, means normally tending to restore said shiftable means to its latched position and change the speed, latching means for preventing operation of said restoring means, the activity controlling member being adapted to trip the latching means when shifted to render the machine inactive, and to shift the said restoring means to inactive position and in engage-

ment with the latching means when shifted to render the machine active.

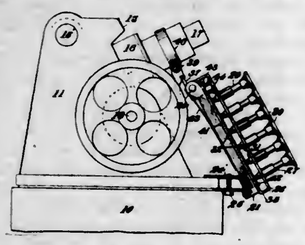
5. In ring spinning machines the combination of means for controlling the activity of the machine, driving means for cops winding mechanism and including gearing for driving the same at a plurality of different speeds, a shiftable member for changing the speed of driving of the mechanism, a ring rail, means controlled by the movement of the ring rail for causing sudden operation of said member to change the speed when the formation of the cop has been partially completed, means normally tending to restore said member to initial position to cause the mechanism to be driven at the original speed, latching means normally preventing operation of said restoring means, one movement of said activity controlling means being adapted to actuate said latching means to release the restoring means and another movement being adapted to shift the restoring means back to original position and permit the latching means to reëngage it.

1,377,748. SECURING MEANS FOR WINDOW-STOPS. RALPH L. CHRISTENSON, Seattle, Wash. Filed June 17, 1919. Serial No. 304,910. 1 Claim. (Cl. 292—241.)



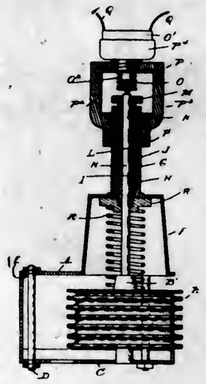
The combination with a window casing having inserted therein metal plates provided each with a keyhole slot and an inner cam surface about the head of said slot, stop strips having extending therethrough revoluble shafts with their inner ends projecting and provided with a lateral web adapted to pass through said keyhole slot, the outer ends of said shafts having a thrust bearing collar and an operating button, an ear projecting therefrom and fitting tightly against the lower window sash when said sash is in closed position, and extending upon both sides of said shaft to be locked in position when the sash is closed, and a metal plate securable to the stop strip and lying between said collar and operating button.

1,377,749. ANNOTATOR. ALBERT B. CHURCH and JAMES P. WARREN, San Francisco, Calif. Filed May 13, 1919. Serial No. 296,813. 5 Claims. (Cl. 274—17.)



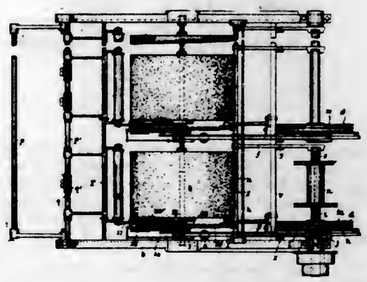
1. In an annotator for commercial phonographs, a fixed tray, a marking element movable thereover, a slotted lug extending upwardly from said element, a finger for engaging said lug and means for supporting the movable element whereby it may swing vertically in relation to the finger without disengagement therefrom, and may move horizontally while in engagement therewith.

1,377,750. TEMPERATURE-CONTROLLING DEVICE. HAROLD E. CHURCHILL, Detroit, Mich. Filed July 3, 1916. Serial No. 107,422. 1 Claim. (Cl. 297—3.)



In a temperature controlling device, the combination with a thermostat having a heat responsive member, of a rod longitudinally actuable by said member, a casing for said member, a tubular stem mounted on said casing surrounding said rod, a second tubular stem embracing said rod within the first mentioned tubular stem and longitudinally adjustable therein, a mounting longitudinally adjustable upon the outer stem, a member engageable by said rod carried by said mounting, an abutment carried by the inner stem within said casing and a spring compressed between said abutment and the heat responsive member resisting expansion of the latter.

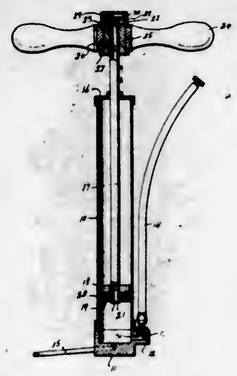
1,377,751. WARPING-MACHINE. GEORGE A. CLUFF, Clifton, N. J. Filed Mar. 24, 1920. Serial No. 368,235. 5 Claims. (Cl. 33—132.)



1. In a warping machine, the combination of a frame, driven warp-engaging means including a rotary member arranged in the frame, a rotating driving member also arranged in the frame, one member being movable in one direction into, and in the other direction out of, peripheral contact with the other member, and means, controlled from the driven warp-engaged means, to shift the movable member in one direction.

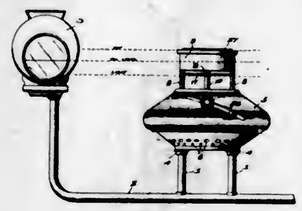
1,377,752. AIR-PUMP. WILLIAM D. COIL, Madisonville, Ky. Filed June 22, 1920. Serial No. 390,716. 5 Claims. (Cl. 230—27.)

1. In a pump of the character described, a pump barrel having a discharge opening, a piston operating within the pump barrel, a tubular piston rod having one end discharging below the piston, the opposite end extending out



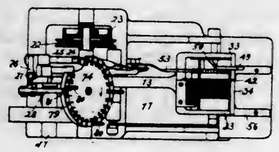
of the pump barrel, means attached to the piston rod for reciprocating it, and an inlet valve disposed at the outer end of the tubular piston rod and controlling the inlet of air thereto.

1,377,753. OIL-STOVE. THOMAS EDWARD COOK, Dallas, Tex. Filed Aug. 25, 1920. Serial No. 405,808. 5 Claims. (Cl. 158—42.)



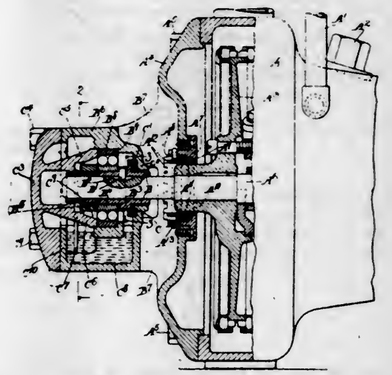
1. In an oil burner, a feed pipe having vertical branches, a burner having depending inlet pipes slidably connected to the respective vertical branches, a member having oppositely disposed inclined cam slots, a member extending through each of the cam slots, and means to movably connect the last named member to the burner whereby upon movement of the last named member through the cam slots the burner will be correspondingly raised or lowered.

1,377,754. PRINTING-MACHINE. ARTHUR R. CURTIS and CHARLES E. OATHOUT, Cleveland, Ohio, assignors to The Kaynee Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 9, 1919. Serial No. 295,915. 11 Claims. (Cl. 101—80.)



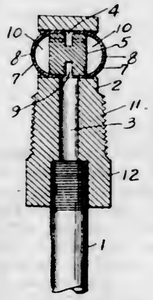
1. In a printing machine, a movable printing head having a plurality of type carrying printing wheels, part thereof being fixed in said head for rotary adjustment only, and part coaxial with the first-named being removably mounted in said head.

1,377,755. STEAM-TURBINE. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed June 27, 1918, Serial No. 242,161. Renewed Mar. 21, 1921. Serial No. 453,991. 4 Claims. (Cl. 253—39.)



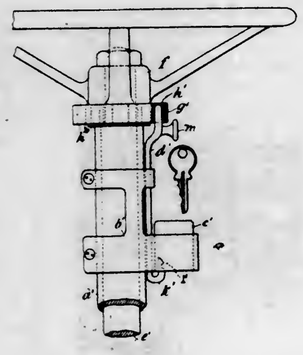
1. In a steam turbine a combined housing and supporting frame having an open side, equal in diameter to the diameter of the rotor, an apertured removable closure therefor adapted to be supported entirely upon the housing, a rotor within the housing, a rotor shaft projecting through the aperture and a bearing supported entirely upon the closure and separated from the steam containing passages and a packing interposed between the shaft and the aperture in the closure.

1,377,756. ATOMIZING-NOZZLE. JOHN E. DESMOND, Detroit, Mich. Filed Jan. 23, 1920. Serial No. 353,402. 2 Claims. (Cl. 299—114.)



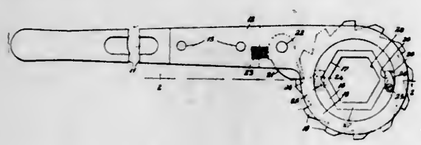
1. An atomizing nozzle comprising a fitting having a passage therein engageable at one end by a liquid delivery pipe and formed with a bore transversely intersecting said passage, caps closing the ends of said bore and respectively having central discharge openings, and a cylindrical member intermediate said caps having an annular groove intermediate its ends communicating with said passage and formed with two oppositely inclined passages extending from said groove to each end of the cylindrical member, through which the liquid passes to said caps, a whirling motion being imparted to the liquid through the opposite inclination of said passages.

1,377,757. LOCKING DEVICE FOR AUTOMOBILES AND THE LIKE. HALFDAN DITTMANN, SVEND AAGE DITTMANN, and ROBERT CHARLES SIMMONSEN, Copenhagen, Denmark. Filed Aug. 17, 1918. Serial No. 250,271. 2 Claims. (Cl. 70—129.)



1. A lock for the steering wheel of automobiles and the like comprising a collar rotatable with the steering shaft and having a plurality of recesses arranged in a series extending circularly and concentrically with the axis of said steering shaft, a bracket disposed below but closely adjacent said collar and fixed relative to the steering post, said bracket having a guiding bore, a locking rod movably slidingly disposed in said bore, means for limiting the downward extent of movement of said locking rod to its unlocking position and means for positively locking said locking rod when moved upwardly through said bore and into one of said recesses to locked position.

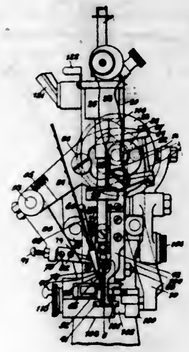
1,377,758. WRENCH. BRONISLAW DOBAZENECKI, Roslyn, N. Y. Filed May 7, 1920. Serial No. 379,428. 1 Claim. (Cl. 81—61.)



In a wrench, in combination, a body, a revoluble member carried by the body, an angular opening of uniform size within the revoluble member, a removable member capable of insertion within the opening, a pivotal member carried by the revoluble member and below the face of the revoluble member to retain a removable member in said opening, teeth carried by the outward periphery of the revoluble member, a pawl carried by the body capable of insertion within said teeth and a spiral spring within a recess of the body tending to maintain the pawl within the teeth preventing the revolution of the revoluble member in one direction.

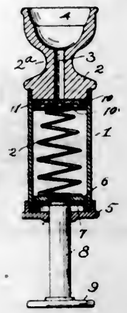
1,377,759. FASTENER-FORMING MECHANISM FOR FASTENER-INSERTING MACHINES. GEORGE A. DOBYNS and STEPHEN A. DOBYNS, St. Louis, Mo., assignors to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Original application filed Oct. 8, 1912, Serial No. 724,680. Divided and this application filed Sept. 18, 1913. Serial No. 790,414. 17 Claims. (Cl. 10—28.)

1. In a machine of the class described, the combination with a fastener stock guide, of means for operating on the fastener stock constructed to cut a fastener therefrom



and deflect its point so as to predetermine the direction of its clench by a clenching anvil.

1,377,760. EYE MASSAGING AND MEDICATING APPARATUS. FRANK C. DORMENT, Cleveland, Ohio. Filed Jan. 2, 1919. Serial No. 269,301. 2 Claims. (Cl. 128—300.)



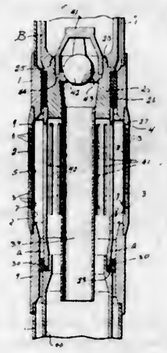
1. In an eye massaging device, the combination with a casing of a head member secured thereto, said head member being provided with a spherical cavity and a duct connecting the spherical cavity with the interior of the casing, a removable cup within said casing, said cup containing absorbing material, a plunger within the casing, resilient means normally urging said plunger toward one end of the casing, and a handle connected with the plunger and extending upon the outside of the casing.

1,377,761. PROCESS FOR SPINNING NITROCELLULOSE SOLUTIONS. ACHILLE DRYEN, Londerzeel, Belgium. Filed Sept. 23, 1919. Serial No. 325,718. 3 Claims. (Cl. 18—54.)

1. In the process of spinning nitrocellulose solutions for the manufacture of artificial silk, artificial horse-hair, artificial straw, film-bands and similar products, the improvement consisting in coagulating the filament in a bath of sulfuric acid at the issue of the spinning orifice.

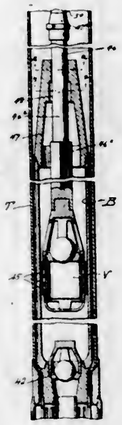
1,377,762. DEEP-WELL PUMP. JULES DUHON, Goss, La., assignor of one-half to E. H. White, De Soto parish, La. Filed July 28, 1920. Serial No. 399,488. 14 Claims. (Cl. 103—80.)

1. In a deep well pump, in combination with the tubing, a coupling secured to the lower end of the tubing, a nipple disposed through the coupling, means for sealing the space between the nipple and the coupling, an intake nipple secured to the coupling, a suction tube extending



through the nipple and having one end portion engaged within the bore of the first nipple, and a sand trap operatively supported by the first named nipple and extending below the suction tube.

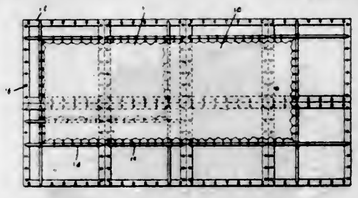
1,377,763. DEEP-WELL PUMP. JULES DUHON, Goss, La., assignor of one-half to E. H. White, De Soto parish, La. Original application filed July 28, 1920, Serial No. 399,488. Divided and this application filed Mar. 14, 1921. Serial No. 451,941. 4 Claims. (Cl. 103—80.)



1. A deep well pump comprising, in combination, a tubing, a working barrel positioned within the tubing and provided with a stand valve, a traveling valve working within the barrel, a cage carried by the upper end portion of the barrel, and a stem carried by the traveling valve and disposed through the cage, a portion of the bore of the cage being angular in cross section and the lower portion of the stem of the traveling valve being of a cross section similar to the angular cross sectional portion of the bore of the cage.

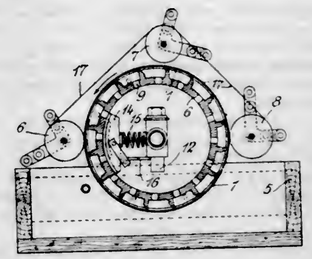
1,377,764. SECTIONALIZED CURTAIN-STRETCHER. JAMES M. EAKINS, Indianapolis, Ind. Filed Dec. 13, 1920. Serial No. 430,278. 2 Claims. (Cl. 45—24.)

1. In a curtain stretcher, the combination of a plurality of separable rectangular frame units, means detachably securing said frame units together, each frame unit having a plurality of alined holes in opposite sides, and detach-



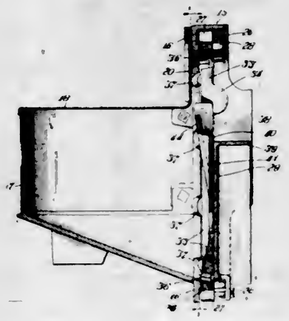
able rod means adjustable upon said units for attaching a curtain thereto.

1,377,765. REVOLVING SUCTION-STRAINER. JENS WILLIAM ÆGIDIUS ELLING, Christiania, Norway, assignor to A/S Myrens Verksted, Christiania, Norway. Filed Mar. 3, 1921. Serial No. 449,497. 6 Claims. (Cl. 210—180.)



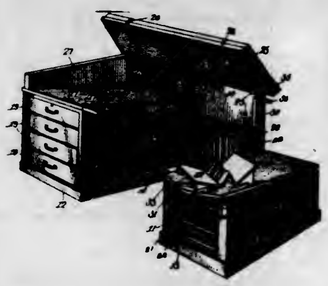
1. A suction strainer comprising a revolving strainer drum with its straining surface arranged to be partially immerged in liquid and non-straining means over a substantial portion of the straining surface not immerged.

1,377,766. PLANTER. ERNST E. ENGLUND, Moline, Ill., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 9, 1920. Serial No. 409,176. 29 Claims. (Cl. 221—135.)



1. A planter comprising a hopper having an opening through a side wall portion, a rotary member in the hopper for successively raising seeds to and delivering them through said opening, and an offset member adjustably mounted with respect to said opening for varying the effective scope of the opening for the delivery of seeds therethrough.

1,377,767. DESK. ALEXANDER S. FALLS, Glencoe, Ill. Filed Nov. 24, 1917. Serial No. 203,767. 26 Claims. (Cl. 45—6.)

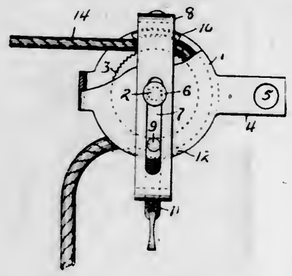


1. In a desk the combination of end and back members, a desk section the top of which is lower than the upper edge of the end and back members and which is arranged adjacent one end of the desk to provide a space for a type writing machine, said top being provided at its inner edge with an extension piece making said top effectively wider at the front than the back for the purpose described, and a combined bookkeeper's desk top and cover hinged to the back of the desk and adapted to be supported by the end members.

16. In a desk of the character described, the combination of end and back members, a desk section, the top of which is lower than the upper edge of the end and back members, and a combined bookkeeper's desk top and cover adapted to be supported by the end members and comprising leaves hinged together, one of said leaves being hinged to said back member.

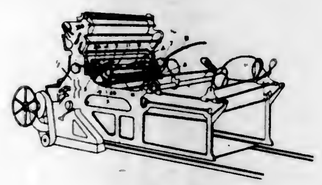
20. A combination desk of the character described, comprising a flat desk top, a back panel, a combined bookkeeper's desk top and cover adapted to be folded down to cover the said flat desk top, rigid means for supporting one end of the said cover when it is in its folded down position, and movable means for supporting the other end of said cover.

1,377,768. CLOTHESLINE PULLEY AND FASTENER. ANDREW FOX, Fort Wayne, Ind. Filed Feb. 6, 1920. Serial No. 356,682. 2 Claims. (Cl. 254—197.)



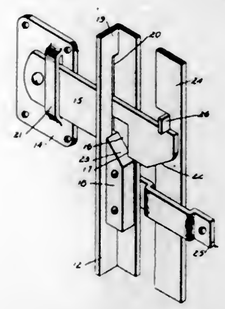
1. In a device of the class described, a shield having an anchor extension and a shaft extending therein; a pulley mounted loosely on the shaft; a slotted clamp frame mounted upon the shaft and being vertically movable relative to the shield, there being means in connection with the shield and engaging the frame to prevent the latter from turning relative thereto; a fixed jaw in connection with one end of the frame; and a clamp screw in the opposite end of the frame and having a jaw upon its end, said jaws being positioned diametrically opposite each other relative to the pulley.

1,377,769. METHOD OF AND MEANS FOR DAMPENING PLATE-CYLINDERS IN OFFSET-PROCESS PRINTING-PRESSES. CLARENCE HENRY GEIGER and THOMAS E. DUNWODY, Pressmen's Home, Tenn. Filed July 6, 1920. Serial No. 394,386. 4 Claims. (Cl. 101—147.)



1. The herein described method of dampening the plate cylinder of an offset process printing press, which consists in spraying upon the cylinder, water that is atomized by physical means that are given a back and forth movement along said cylinder.

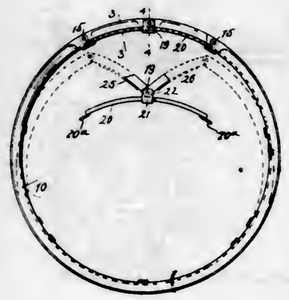
1,377,770. TRUNK-LOCKING MECHANISM. BEN M. HAMLIN, Chicago, Ill., assignor to J. V. Meyering Trunk Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1920. Serial No. 360,215. 3 Claims. (Cl. 70—115.)



1. Trunk locking mechanism for locking together the two sections of a trunk, comprising a plurality of locking members pivotally secured to one section, a reinforcement bar slotted for the reception of said locking members, secured to the other trunk section along its free edge and arranged to be engaged by said locking members, an endwise movable operating bar slidably mounted on the trunk section to which the reinforcement bar is secured and having means for engaging the upper edge of said locking members, and lock-controlled means for positively moving said operating bar in endwise directions.

1,377,771. DEMOUNTABLE RIM. JOSEPH B. HARRIS, Cleveland, Ohio. Filed June 16, 1919. Serial No. 304,372. 11 Claims. (Cl. 301—33.)

1. A demountable rim comprising, in combination, a long rim section of channel form, two pairs of toggle links, whereof the links of one pair are pivoted together and are pivotally connected with the ends of the flange on one side of the long rim section, and the links of the other pair are pivoted together and to the ends of the other flange of the long rim section, the three pivots of the links of one pair being alined with the corresponding pivots of the links of the other pair, and an arcuate plate which is constructed to fill the gap between the base part of the long rim section and is pivotally hung on both



pairs of toggle links on an axis which is coincident with the alined axes of the joints between the two pairs of toggle links.

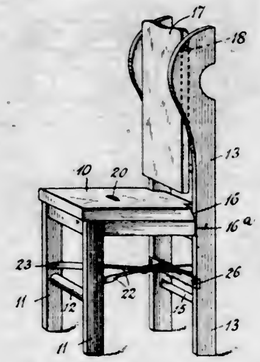
1,377,772. WRENCH. ALTON BUNKER HEIMBACH, Duluth, Minn. Filed May 10, 1919. Serial No. 296,190. 3 Claims. (Cl. 81—141.)



1. In a wrench of the character described, the combination with an arcuately-shaped shank having a fixed jaw at one end thereof, of a slidable coöperative jaw having a smooth arcuately-shaped body portion coinciding with the body portion of the shank and slidable upon the smooth convex edge thereof and means operative from the concave edge of the shank for adjusting and holding the slidable jaw in any desired predetermined position.

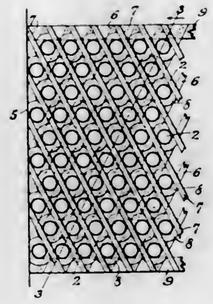
1,377,773. CHAIR. SOMA HERZOG, New York, N. Y. Filed Feb. 17, 1919. Serial No. 277,404. 1 Claim. (Cl. 155—42.)

A convertible chair comprising a seat, front legs rigidly connected therewith, a rear frame pivotally connected with said seat and extending below the same to form rear legs and above the same to form back posts, a panel freely pivoted between the latter out of engagement with said seat to constitute in its normal position, the back of the chair, said panel being movable into engagement with said seat to prop said rear frame in an inclined position relatively to said seat and being movable to a horizontal position extending rearwardly of said rear frame to form a table and means on said seat



coöperating with said rear frame to determine its normal upright position and its inclined position with respect to said seat.

1,377,774. FORM FOR MOLDING MONOLITHIC BAFFLE-WALLS FOR WATER-TUBE BOILERS AND PROCESS OF MAKING THE SAME. WILLIAM AUGUST HOFFMAN, St. Louis, Mo., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed Jan. 13, 1920, Serial No. 351,169. Renewed Oct. 12, 1920. Serial No. 416,511. 4 Claims. (Cl. 25—155.)

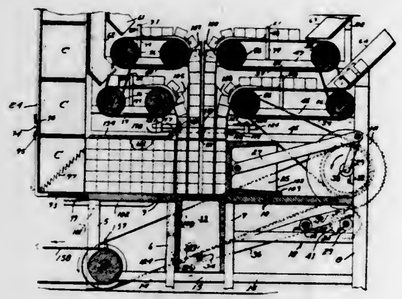


3. A form for molding a monolithic baffle wall around a set of staggered boiler tubes which comprises in combination two properly spaced partitions extending crosswise of the tubes, each partition being composed of a lattice work of narrow, stiff strips inserted between the tubes, and a washer around each tube adjacent each lattice of a diameter sufficient to cover the spaces left between the tubes and strips forming the lattice.

1,377,775. LUMP-SUGAR-PACKING MACHINE. GIUSEPPE IACOBITTI, Crockett, Calif. Filed Oct. 7, 1920. Serial No. 415,392. 14 Claims. (Cl. 226—14.)

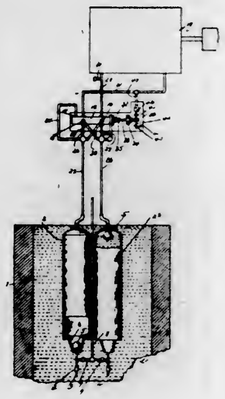
1. A lump sugar packing machine comprising a series of chutes, means to regularly assemble the sugar cubes in said chutes, a movable platform upon which the cubes

are assembled after having passed through said chutes, a carton holder, means to push a series of sugar cubes



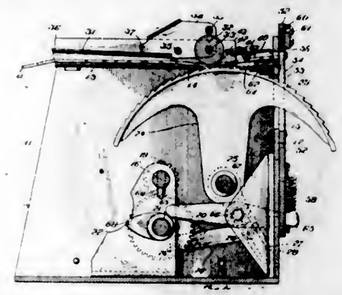
into the carton and means whereby the carton holder will automatically receive another carton when one has been filled and removed therefrom.

1,377,776. PUMPING APPARATUS. WILLIAM H. JANNEY, Toronto, Ontario, Canada, and HARRY E. FISCEL and JESSE L. MILLER, Pittsburgh, Pa., assignors of one-fourth to George M. Lemmon, Pittsburgh, Pa. Filed Oct. 6, 1919. Serial No. 328,924. 3 Claims. (Cl. 103—8.)



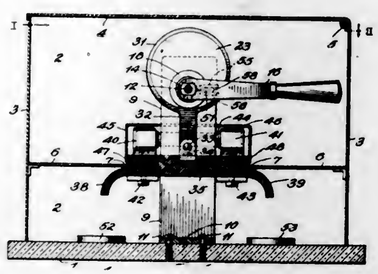
1. A pumping apparatus comprising two tanks respectively having provision for admitting and discharging a liquid, an air compressor, pipe connections from said compressor to said tanks, a piston valve controlling said connections respectively establishing an air supply to said tanks in the limiting positions of the piston, means for applying air pressure to the piston in each limiting position tending to shift the piston to its other limiting position, a stem extending from said piston in the direction of its stroke, a locking member engageable with said stem in either limiting position of the piston to restrain the piston against shifting due to the air pressure, means urging said locking member normally into engagement with the piston and means actuated by an abnormal pressure in said pipe connections for momentarily disengaging the locking member from said stem.

1,377,777. MACHINE FOR CUTTING FABRICS TO PREDETERMINED LENGTHS. FREDERICK KASCHEWSKI, Davenport, Iowa. Filed Sept. 24, 1919. Serial No. 326,062. 11 Claims. (Cl. 164—48.)



1. The combination of an oscillatory feed device for intermittently forwarding a strip of material, means for moving said feed device backward and forward in the same path, means for operating upon said strip, a roller holding said strip pressed against said feed device during the forwarding movements, and means for moving said roller away from the strip when said strip is not being moved.

1,377,778. ELECTRIC SWITCH. LOUIS KELLNER, Brooklyn, N. Y. Filed Dec. 3, 1917. Serial No. 205,141. 4 Claims. (Cl. 200—78.)

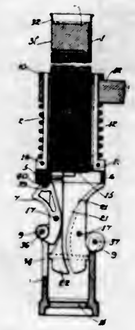


1. In an electric switch, the combination of line terminals, reciprocable circuit-closing means, a motor spring, an eccentric operatively connected to reciprocate the circuit-closing means toward and from circuit-closing position and having two spaced apertures extending transversely therethrough, manually operable means adapted to store power in the motor spring to rotate the eccentric in either direction, a spring-pressed latch reciprocable transversely of the eccentric and adapted to engage in said apertures alternately to hold the eccentric against rotation, a rotary cam controlled by said manually operable means, and a pair of releasing devices reciprocally mounted in the apertures in the eccentric and operable by said cam at the conclusion of successive power storing movements of said manually operable means to disengage the latch from the eccentric.

1,377,779. MACHINE FOR CAPPING BOTTLES. BENJAMIN L. KINNEY, Janesville, Wis., assignor of one-half to Oscar B. Cornish, Fort Atkinson, Wis. Filed Jan. 25, 1918. Serial No. 213,800½. 5 Claims. (Cl. 226—92.)

1. A bottle capping machine embodying therein a plunger having a slot adapted for passage of a cap there-

through, a centering bell slidable on and axially alined with said plunger, and means actuated by sliding move-



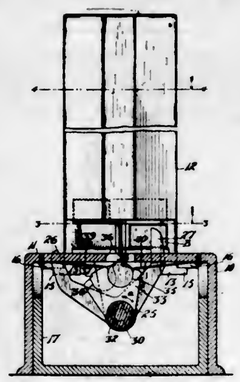
ment of the centering bell for feeding a cap to the said plunger slot.

1,377,780. COMPOSITION OF MATTER. ANDREW T. LANE, St. Louis, Mo., assignor to The Pyorr-Laris Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 14, 1920. Serial No. 416,830. 4 Claims. (Cl. 167—9.)

1. A preparation of the character described, comprising a mixture of water, soap, borax, and essence of soap tree bark.

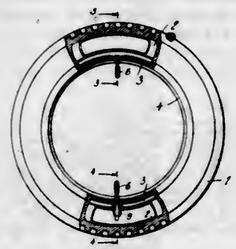
4. A preparation of the character described, comprising the following ingredients in about the proportions stated: water about three and one-half gallons; six pounds of soap free from animal fat and containing no free alkali; fourteen ounces of dissolved borax; one quart of essence of soap tree bark; two ounces of ammonia; and an appropriate quantity of flavoring substance.

1,377,781. VENDING-MACHINE. GEORGE W. MILLER, Sacramento, Calif. Filed Jan. 9, 1919. Serial No. 270,388. 8 Claims. (Cl. 211—8.)



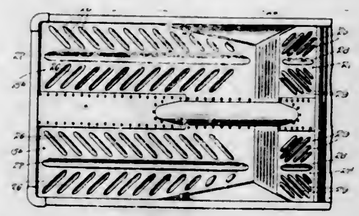
3. In a vending machine, a vertical bin within which a plurality of articles may be stacked in criss-cross fashion, said bin having a pair of openings through its side walls, through which the lowermost of the articles may be withdrawn endwise, and lock means for normally obstructing the opening, from which it is possible to withdraw an article.

1,377,782. TIRE. TEIJI MORI, New York, N. Y. Filed Oct. 28, 1920. Serial No. 420,120. 9 Claims. (Cl. 152—22.)



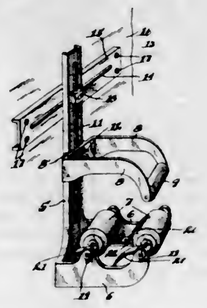
1. In a pneumatic tire construction, the combination with the casing, of a plurality of independent inner tubes for simultaneous insertion therein, said tubes being continuous hollow structures and each having an air valve, one of the tubes having a diametrical passage therethrough and the other tube having a flexible neck extending through the passage and connecting with the valve.

1,377,783. HOPPER-CAR. WALTER P. MURPHY, New York, N. Y. Filed July 29, 1919. Serial No. 314,055. 9 Claims. (Cl. 105—249.)



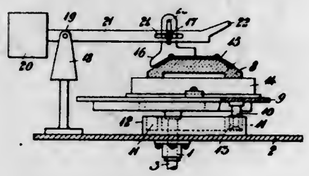
1. In a railway car of the character described, the combination with the end and side walls of the car, of means constituting a hopper having a discharge opening comprising a sheet metal panel which slopes toward said discharge opening and is formed with rigidifying corrugations which extend substantially in the direction of movement of the load when discharging.

1,377,784. AWNING-SUPPORT. JACOB O. NODLAND, Chicago, Ill. Filed Dec. 29, 1919. Serial No. 348,182. 4 Claims. (Cl. 156—44.)



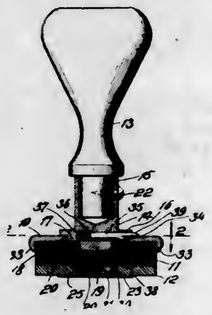
2. An awning support comprising a supporting member; means including a horizontal bar for securing said supporting member to a stationary object; and means for adjusting said member vertically and horizontally relatively to said securing means, substantially as described.

1,377,785. MACHINERY FOR THE MOLDING OF POTTERY. AXEL SAMUEL WILHELM ODELBERG, Gustafsberg, Sweden, assignor to Aktiebolaget Gustafsbergs Fabriks Intressenter, Gustafsberg, Sweden, a Joint-Stock Company Limited. Filed July 27, 1920. Serial No. 399,317. 2 Claims. (Cl. 25—25.)



1. In a molding machine, the combination of a rotatable shaft, a molding disk mounted on said shaft for rotation therewith and slidable relatively to the shaft, and removable means for guiding the disk in its slidable movement.

1,377,786. TIME HAND-STAMP. JOSEPH S. PACKARD, Brooklyn, N. Y. Filed Aug. 29, 1918. Serial No. 251,893. 4 Claims. (Cl. 101—373.)



1. A time hand-stamp comprising a base-plate having a hole therein whose edge is serrated throughout the thickness of said plate, a frame having a hub within and reasonably filling said hole, a lower hub extending below said plate, a disk-flange which engages the upper face of said plate about said hole and means for receiving a handle, said hub within said hole having a transverse recess therein, a washer around said lower hub and engaging the lower surface of said plate and connected to said frame, a spring-actuated pin in said transverse recess affording an index finger at the upper side of said plate and a dog within said hole to engage said serrations on the angular adjustment of said frame, a handle on the upper end of said frame, a fixed time-dial on the upper face of said plate with which said index finger coöperates, a fixed stamp at the lower side of said base-plate bearing a time-dial, and a pointer stamp connected with the lower end of said frame and movable therewith for coöperation with said stamp dial.

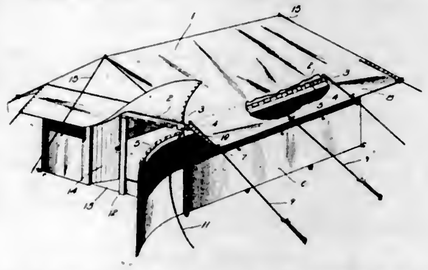
1,377,787. FISHING-ROD. YOUNG N. PARK, Dinuba, Calif. Filed Sept. 16, 1920. Serial No. 410,696. 8 Claims. (Cl. 43—20.)

3. A fishing rod having a frame secured adjacent its outer end about which a fishing line may be wound or unwound, said frame comprising a plurality of cross members secured to the rod and a pair of rails connecting



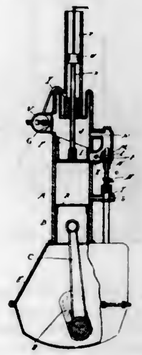
the different cross members upon which a fishing line may be wound.

1,377,788. TENT. JOHN D. PENNEWELL, Kansas City, Mo. Filed July 12, 1920. Serial No. 395,628. 4 Claims. (Cl. 135—1.)



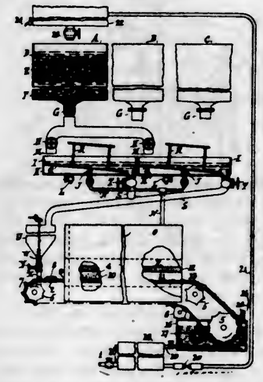
2. A tent comprising a roof sheet having shade flaps in the plane of the roof sheet, a depending flap carried by the roof sheet having spaced loops, a tent wall having spaced loops at its upper edge alternating with the loops on the flap, and a lacing for connecting the loops.

1,377,789. INTERNAL-COMBUSTION ENGINE. ELI E. PENTER, Detroit, Mich., assignor of one-fifth to Charles K. Seibert, Detroit, Mich. Filed Apr. 18, 1917. Serial No. 162,984. 7 Claims. (Cl. 123—66.)



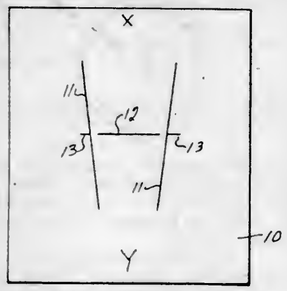
6. In an internal combustion engine, the combination with a cylinder, of a main piston, and a floating piston in said cylinder, said floating piston being movable independently of said main piston, means for introducing air into said cylinder when said floating piston is adjacent to said main piston near the end of the power stroke, a by-pass provided with ports separated longitudinally of said cylinder and connecting into the wall thereof, said floating piston adapted to close each of said ports, and means for introducing fuel into said by-pass.

1,377,790. PROCESS OF WASHING OR SCOURING WOOL. ROBERT MURTON POOLE, Mount Gambier, South Australia, and HENRY FREEMANTLE DAVIS, Brighton, Victoria, Australia. Filed Sept. 24, 1919. Serial No. 325,886. 6 Claims. (Cl. 8—12.)



1. The process of scouring wool which consists in subjecting the wool to the action of a solution containing potassium carbonate, sodium sulfate, and sodium chlorid.

1,377,791. COMMODE-SEAT COVER. KARL POTSCHNER, Dover, Ohio. Filed June 7, 1919. Serial No. 302,395. 6 Claims. (Cl. 4—18.)



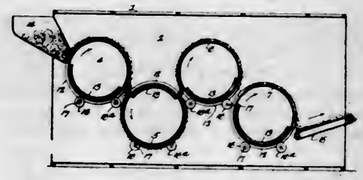
1. A protective cover for commode seats consisting of a sheet of thin paper having two longitudinally extending cuts, approximately parallel to each other, and a transverse cut disposed between but not intersecting the parallel cuts and so located that when longitudinal strain is placed upon the sheet of paper across the transverse cut, the paper will tear transversely from the transverse cut, in opposite directions to the longitudinal cuts.

1,377,792. WELDING-ROD HOLDER. JOHN RICE, Salineville, Ohio. Filed July 24, 1919. Serial No. 312,950. 5 Claims. (Cl. 113—111.)



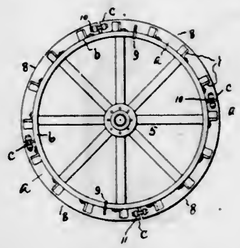
1. A welding-rod holder comprising a tubular barrel having a uniform bore throughout and adapted to receive and feed a welding-rod therethrough, means movable through a side of the barrel adjacent to the front end of the latter for exerting a gripping pressure on a welding-rod, slidable means spring-pressed in an advanced position whereby said gripping means is normally held in operative position, and means operable by the hand which supports the barrel whereby retraction of said holding means may be effected for withdrawing said gripping means.

1,377,793. DRIER. WALTER M. SCHWARTZ, Philadelphia, Pa., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1919. Serial No. 331,793. 3 Claims. (Cl. 34—4.)



2. The combination in a drier, of a drying chamber; a heating chamber; a series of cylinders located in the drying chamber and arranged close together, each cylinder having a perforated periphery; segmental guards located in the cylinders; fans at one end of each cylinder for creating suction within the cylinders; and means for feeding material to the first cylinder, the guards being so arranged that the material will be carried by the first cylinder to the guards and will be released by the guards cutting off the suction in the first cylinder and will be transferred by the suction to the second cylinder to the periphery thereof and then transferred in a like manner to the other cylinders of the series and finally discharged.

1,377,794. LUG-SHIELD FOR TRACTOR-WHEELS. ARTHUR C. AIKIN, Mason City, Iowa. Filed Aug. 26, 1920. Serial No. 406,216. 1 Claim. (Cl. 301—39.)

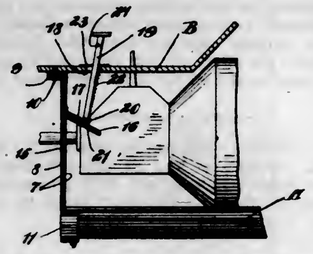


In a shield for the lugs of tractor wheel tires, a plurality of segments having end-projections, each segment being provided on its concaved side with longitudinally curved flanges having recesses formed therein, said segments being adapted to be disposed closely adjacent to each other with their recesses receiving said lugs, fastening elements for connecting the adjacent ends of the segments, and hooks carried by the segments for engaging parts of the tire.

1,377,795. END SHIELD FOR AUTOMOBILE-DUST-PANS. FRANK W. ARMSTRONG, Salina, Kans. Filed Mar. 24, 1920. Serial No. 368,453. 4 Claims. (Cl. 74—56.)

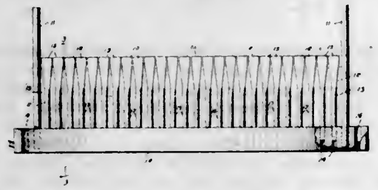
1. A shield of the character described, comprising a pair of sections adapted to be mounted in an automobile

rearwardly of the engine between the same and the dust pan for closing the rear portion of the latter, each sec-



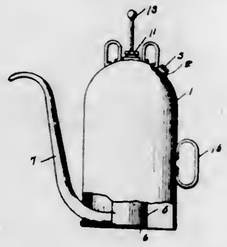
tion having a window, shutters closing said windows, and foot operated means for manipulating the doors.

1,377,796. BROOM-CORN STEMMER AND SEPARATOR. HERMAN G. ASKREN, Tipton, Ind. Filed Aug. 4, 1920. Serial No. 401,256. 4 Claims. (Cl. 130—30.)



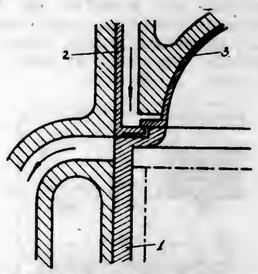
1. A broom corn stemmer and separator having an arcuate series of teeth arranged with their extremities in spaced relation to form intervals for the reception of strawa of a predetermined diameter, the terminals of the teeth being arranged in a common plane and flattened on opposite sides.

1,377,797. OIL-CAN. FREDRICK E. BAUER, Java, S. D. Filed Dec. 21, 1918. Serial No. 267,831. 1 Claim. (Cl. 221—51.)



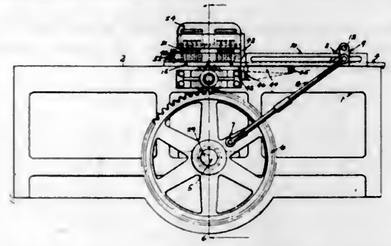
An oil can comprising a dome-shaped reservoir having its lower end fully open and provided with an opening in its upper end, a bottom wall secured in the reservoir and spaced upwardly from the lower end thereof, a cylinder carried in the bottom wall and projecting above and below the same and having its lower end closed and disposed in a plane with the lower edge of the reservoir, a spout formed on the lower end of the cylinder and extending upwardly and outwardly therefrom and through the lower portion of the reservoir, said cylinder having openings in its sides above the bottom wall to permit the contents of the reservoir to drain into the cylinder, a piston head closing the upper end of the cylinder and slidably mounted therein, a spring seat secured to the reservoir and closing the opening in the upper end thereof and depending downwardly in said reservoir, a piston rod on said head and extending through the seat, a bushing closing the seat and having the rod extending therethrough, a spring in said seat for urging the rod and piston head upwardly, and finger grips secured to the upper end of the reservoir and located on opposite sides of the piston rod.

1,377,798. CYLINDRICAL OR SLEEVE VALVE. HEMKE BERCKENHOFF, Hilversum, Netherlands. Filed Dec. 22, 1920. Serial No. 432,568. 3 Claims. (Cl. 123—75.)



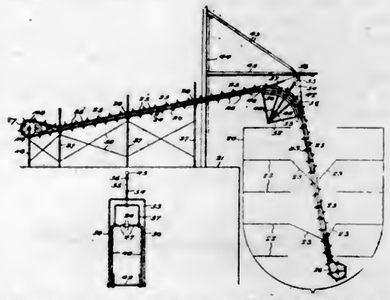
1. In an engine having a piston, the combination of a plurality of sliding sleeve valves controlling the inlet and exhaust fluid, which valves coöperate in abutting contact with each other, and a relatively fixed seating member upon which one of said valves seats to form a pressure chamber which is defined by said valve, the piston and fixed elements.

1,377,799. HORSESHOE-PUNCHING MACHINE. JOSEPH BROCK, Erie, Pa., assignor of one-eighth to Edward Demuling, Erie, Pa., and five per cent. to John J. Grant, Erie, Pa. Filed Mar. 22, 1919. Serial No. 284,421. Renewed Oct. 6, 1920. Serial No. 415,220. 23 Claims. (Cl. 164—90.)



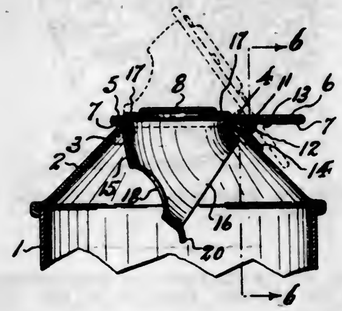
1. In a horseshoe punching machine, the combination of two series of punches in alinement; means for feeding a blank to said punches; and means controlled by variations in the blank for adjusting one series of punches relatively to the other.

1,377,800. CONVEYER. EGBERT S. BROWN, East Savannah, Ga. Filed Dec. 12, 1919. Serial No. 344,377. 8 Claims. (Cl. 193—3.)



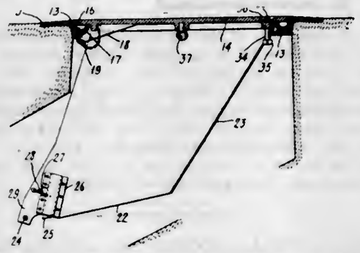
5. A carrier comprising an endless cable, a track for said cable, pivotally adjustable carrier arms secured to the cable, means including a spring actuated plunger for holding the carrier arms in adjusted position, a driving wheel rotatably mounted at one end of the cable and anti-friction devices carried by the cable for contact with the track and for engagement with the wheel whereby rotation of the latter will operate the cable.

1,377,801. SELF-CLOSING CONTAINER. JOHN B. BROWN, Belleville, N. J., assignor of one-half to Lester Cannold, East Orange, N. J. Filed Mar. 5, 1920. Serial No. 363,504. 8 Claims. (Cl. 221—61.)



1. The combination with a container of an upper wall member having an opening therein, a pivoted tubular arcuate discharge member closed at its outer end and having an open inner end communicating with the interior of said container said arcuate discharge member being arranged to ride slidingly in said opening, and said arcuate discharge member having a discharge opening in its wall adapted to be exposed when the former is moved to operative projected position from said opening.

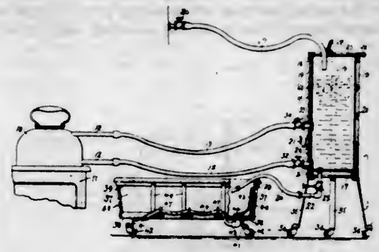
1,377,802. VAULT-COVER. ELLSWORTH BURGER, Ridgewood, N. J., assignor to American Abrasive Metals Company, New York, N. Y., a Corporation of New York. Filed June 30, 1917. Serial No. 177,998. 13 Claims. (Cl. 94—36.)



1. A vault cover including, in combination, a frame having a ledge extending inwardly from one of its inner edges below the top surface thereof, and a cover member nested wholly within the frame and resting at one edge upon said ledge and adapted to be rocked thereon to open and closed position, the said ledge being recessed in its top face to form a bearing for the edge of the cover member in its rocking movements.

1,377,803. PORTABLE BATHING APPARATUS. ELMO J. BUSH, East St. Louis, Ill. Filed Aug. 27, 1920. Serial No. 406,284. 2 Claims. (Cl. 126—350.)

1. In an apparatus of the class described, a supporting frame open at the ends and having a plurality of supporting legs, a closed water tank within said frame, a discharge pipe connected into the bottom of the water tank through the open bottom of the frame, and extended laterally between one pair of said legs, feed pipes connected



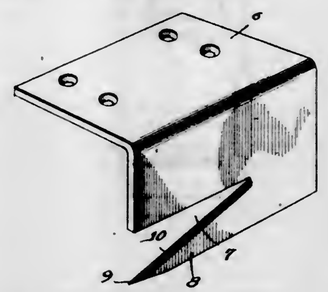
into said water tank in spaced relation, a generator, connecting means between said generator and said feed pipes, and means for supplying water to said water tank.

1,377,804. COLLAR-HOLDER. CHARLES J. CALLAHAN, Providence, R. I. Filed Feb. 26, 1921. Serial No. 448,081. 4 Claims. (Cl. 24—81.)



1. A collar holder of the character described, comprising a pair of bars secured together intermediate their ends, and provided at their opposite ends with opposed rolls for releasably engaging therebetween the opposed lateral edges of a collar.

1,377,805. ENVELOP-OPENER. ANDREW R. CLEAR, Nashua, N. H. Filed July 29, 1919. Serial No. 314,026. 1 Claim. (Cl. 120—35.)

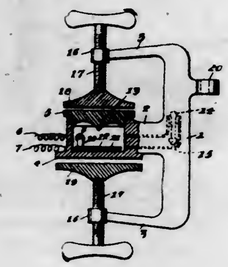


A device of the class described comprising a supporting member, a clamp carried thereby for clamping the same to a support, an angle shaped plate having one flange secured to the supporting member and having its other flange provided with a V-shaped recess which passes through one end of the flange with its lower wall merging into the lower edge of the flange to provide a sharp point, said lower wall being beveled to provide a cutting edge.

1,377,806. WATER-HEATER. FERDINAND JAMES CLIFFORD, Pateros, Wash., assignor to Frank Hamilton Cooper and William Zenas Cooper, Pateros, Wash. Filed Apr. 20, 1920. Serial No. 375,278. 5 Claims. (Cl. 219—40.)

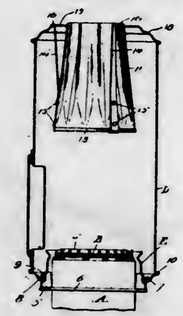
1. A water heater comprising a casing, an electrode in the casing, said electrode being spaced above the bottom

of the casing to cause the circuit to be broken when there is no water between the electrode and the bottom of the casing, said electrode having a central opening and the top of the casing having a depending point at the center for conducting the water to the opening, said point and



opening being in axial alinement, a support for the casing having cuts above and below the casing, clamping plates coöperating with the upper and lower faces of the casing, and screws threaded through the nuts and engaging the plates.

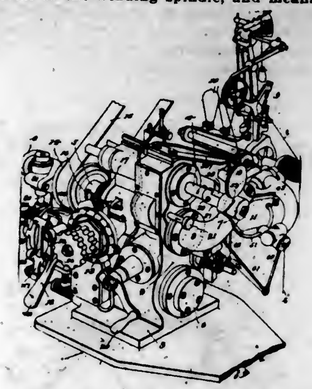
1,377,807. AIR-CONCENTRATOR. JACOB CLOSS, St. Ansgar, Iowa. Filed Aug. 23, 1919. Serial No. 319,389. 4 Claims. (Cl. 126—47.)



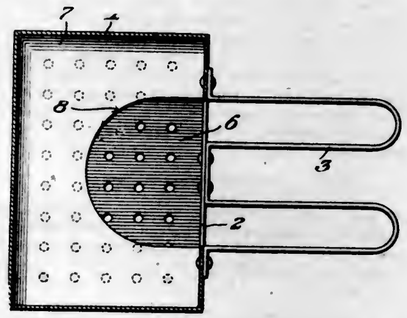
1. The combination with a burner and chimney of a vapor stove; of a truncated cone-shaped hollow heat concentrating member supported in the upper portion of said chimney with the smaller end of the concentrator extending upward through the chimney concentrically relatively thereto, said concentrator being positioned over the burner with its lower end spaced from the burner.

1,377,808. WINDING-MACHINE. FREDERICK W. COTTERMAN, Dayton, Ohio, assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 23, 1916. Serial No. 116,479. 42 Claims. (Cl. 242—10.)

6. In a winding machine, the combination with a reciprocating rotatable winding spindle, of a material winding finger angularly disposed with relation to the winding spindle, means for tilting said winding finger into substantially a vertical plane at the end of each reciprocation of the winding spindle, means for guiding another winding material to the winding spindle, and means for rotating said winding finger in the opposite direction to that of the winding spindle.

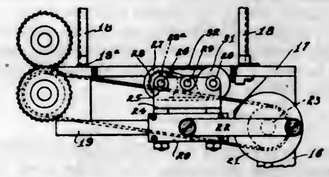


1,377,809. STEAMER. FRED D. CROSIER, Brockton, Mass. Filed Jan. 19, 1920. Serial No. 352,460. 2 Claims. (Cl. 12—1.)



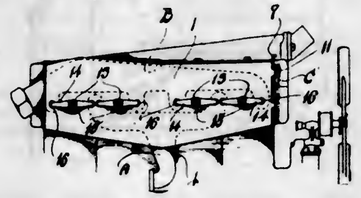
1. A steam box of the class described including a front wall provided with an opening and also having a flaring top, an outlet connected with the flaring top, a shelf secured exteriorly of the box at a point substantially flush with the lower portion of the opening formed therein, and a baffle plate secured within and extending across the box, said baffle plate being disposed in alinement with the opening in the box and having a recess in its front edge for directing the steam against the shoe.

1,377,810. BLANK-FEEDING MECHANISM. HILARION DE ESCOBALES, New York, N. Y. Filed Sept. 13, 1917. Serial No. 191,259. 21 Claims. (Cl. 271—44.)



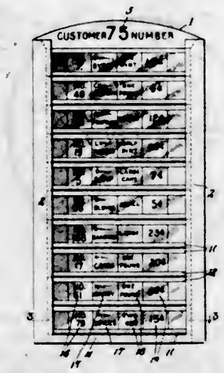
3. In mechanism for feeding individual blanks from a pile of blanks and in combination, blank segregating and advancing means operative to deliver a blank from a pile, said means including a reciprocating carriage, a pair of rolls mounted thereon with parallel axes, an endless band connecting said rolls, said rolls and band constituting a carrier, said carrier being normally positioned beneath and tending to form a support for the blanks, the upper run of said band and the top faces of the rolls forming a blank-contacting zone elongated in length and increased in width at its ends, and means for retaining said carrier against movement independent of and during the advancing movement of the carriage, said means being operative to permit free additional movement of the carrier during movements of the carriage in the opposite direction.

1,377,811. MANIFOLD-SHIELD. CHARLES F. DE LANO, Spokane, Wash. Filed Dec. 20, 1919. Serial No. 346,216. 1 Claim. (Cl. 123—122.)



A shield for the purpose described comprising a single side wall, a closed top and partially closed bottom with a rear opening, a slotted front wall, an adjustable, slotted front plate, and a downwardly projecting rear flange on the bottom wall thereof.

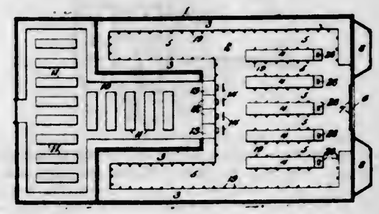
1,377,812. SHOPPING-CARD FOR USE IN RETAILING GOODS BY SAMPLES. HARRY DLUGACH, Memphis, Tenn. Filed Mar. 29, 1918. Serial No. 225,568. 11 Claims. (Cl. 40—64.)



1. Means for use in selling goods at retail by sample, comprising a holder of a size to be carried in the hand of a customer, and tickets each adapted to be inserted and displayed in the holder and individualized to and identifying the goods represented by a sample, the holder being constructed to receive a plurality of said tickets all visible at the same time and in orderly arrangement.

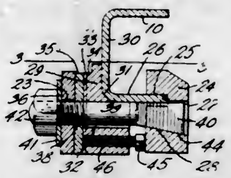
1,377,813. MEANS FOR RETAILING GOODS BY SAMPLES. HARRY DLUGACH, Memphis, Tenn. Filed Mar. 29, 1918. Serial No. 225,569. 7 Claims. (Cl. 211—8.)

4. A means for retailing goods by samples, comprising a display room with samples of the goods on sale, the samples being visible but protected from access by customers, each sample having a price tag with identifying indicia visibly displayed to the customers, loose tickets separate from the price tag and mounted in holders in juxtaposition to said samples, said tickets being readily accessible to the customers so as to be withdrawn by them separately, each ticket having matter thereon corresponding to the identifying indicia accompanying each sample, said matter including the price and quantity, thereby identifying the ticket with the goods represented by a



sample to which the ticket is individual, and a customer's ticket holder accessible to a customer and of a size to be carried in the hand of the customer for receiving and retaining a plurality of tickets chosen and inserted therein by the customer, said last-mentioned holder having matter thereon for identifying the customer, whereby the tickets within the holder show the articles purchased and may be used in filling the order in the stock room and entering the purchase by the cashier.

1,377,814. BUMPER FOR AUTOMOBILES. JOHN DRUMB, Buffalo, N. Y., assignor to McKinnon Dash Company, Buffalo, N. Y. Filed Sept. 18, 1920. Serial No. 411,195. 18 Claims. (Cl. 293—55.)

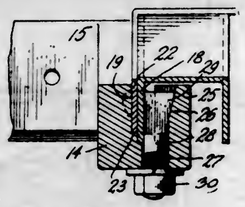


18. In a bumper for attachment to a vehicle having channel frame members, the combination of a clamping member having a slot therein for seating on a flange of one of said frame channels, said clamping member having a recess therein, a bolt having a head fitting in said recess and bearing upon said side flange, said bolt extending outwardly beneath and beyond said channel flange, a second clamping member on the projecting end of said bolt and having a recessed portion adapted to contact with a portion of the web and of the side flange of said channel, said second member having an aperture therethrough, a toothed face on said second member, an adjustable arm securing member on the projecting end of said bolt, said arm securing member having a toothed inner face, a lug on the outer face of said arm securing member, a bumper supporting arm, said arm having a slotted portion for receiving said lug, and a nut on the end of said bolt for holding said arm on said arm securing member and said clamping member on said frame channel.

1,377,815. BUMPER FOR AUTOMOBILES. JOHN DRUMB, Buffalo, N. Y., assignor to McKinnon Dash Company, Buffalo, N. Y. Filed Sept. 18, 1920. Serial No. 411,196. 11 Claims. (Cl. 293—55)

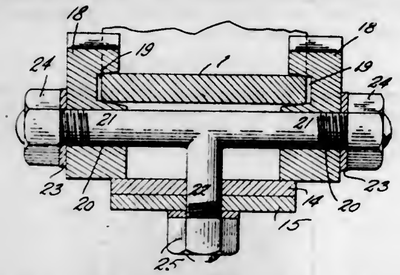
10. In combination with a channel of a vehicle frame, a bracket member comprising a plate having a face for contacting with the face of one of the side flanges of said channel, a bridging portion projecting from said

plate and adapted to rest on the lower edge of said flange, said bridging member having a hole therethrough, a stationary wedge member on the inner end of said bridging portion and adapted to project upwardly behind said channel flange, said stationary wedge member having an



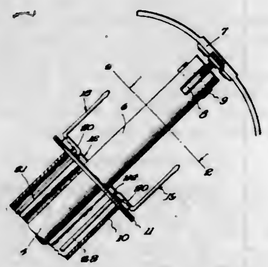
inclined wedge face therein, and a bolt projecting and movable through the hole in said bridging portion, said bolt having an inclined wedging portion coöperating with said inclined wedge face to force said bolt laterally against the inner side of said flange when the bolt is moved lengthwise through the hole in said bridging portion.

1,377,816. AUTOMOBILE-BUMPER. JOHN DRUMB, Buffalo, N. Y., assignor to McKinnon Dash Company, Buffalo, N. Y. Filed Sept. 18, 1920. Serial No. 411,197. 12 Claims. (Cl. 293—55.)



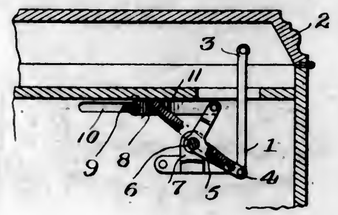
4. In a vehicle bumper, the combination of a bumper bar, and a pair of spring supporting members therefor, each comprising a pair of U-shape springs attached at one end to said bumper bar, the free ends of said springs overlapping, and means for attaching said spring supporting members to the body springs of a vehicle, said means including a part for releasably holding said overlapping ends of said supporting means together and to said attaching means.

1,377,817. HAND-OPERATED LEVER. EMIL DVORAK, Ocheyedan, Iowa. Original application filed Apr. 1, 1919, Serial No. 286,645. Divided and this application filed Nov. 29, 1919. Serial No. 341,458. 3 Claims. (Cl. 74—39.)



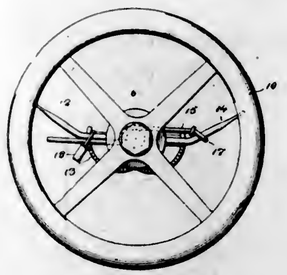
1. The combination with a steering rod having a steering wheel, of a casing surrounding the steering rod and terminating below the upper end of the same, a head plate arranged at the upper end of the said casing and surrounding said steering rod, the upper portion of said steering rod being enlarged thereby forming an annular shoulder in contact with the upper side of said head plate, a plurality of segments mounted on said head plate, and levers associated with said segments.

1,377,818. LID-OPERATING DEVICE. WALTER M. EARHART, Hope, Ind. Filed May 4, 1920. Serial No. 378,890. 4 Claims. (Cl. 217—60.)



1. A lid lifting device comprising a rod pivoted to the lid and manually operated link mechanism connected to the rod in a manner to force the lid to open position and automatically hold the lid in its open position, and a spring for assisting such movement.

1,377,819. AUTOMOBILE-LOCK. HERMAN D. EILERS, Ireton, Iowa. Filed Aug. 10, 1917. Serial No. 185,569. 1 Claim. (Cl. 70—126.)

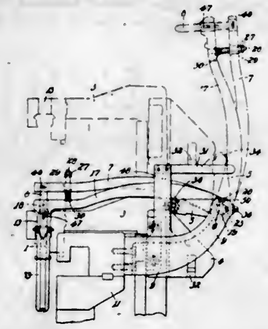


The combination with the controlling levers carried by the steering column of an automobile, and a segmental bracket coöperating therewith, of a bar of uniform cross section throughout having one end bent into the form of a loop, the extreme end of the loop being coiled around the bar, said bar being offset intermediate of its ends and extending in a direction parallel with one of the controlling levers, the loop portion passing around the other of said levers, and a lock including a hasp passing around one end of the bar, one lever, and a portion of the bracket.

1,377,820. MEANS FOR COMPOSING TABULAR MATTER IN TYPOGRAPHICAL COMPOSING AND CASTING MACHINES. HERBERT ELLIS, Singapore, Straits Settlements, assignor to Linotype and Machinery Limited, London, England. Filed Mar. 11, 1921. Serial No. 451,600. 39 Claims. (Cl. 199—51.)

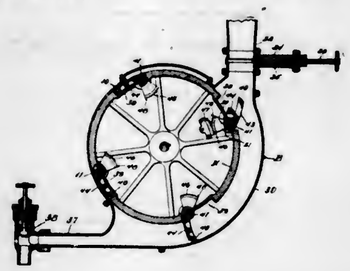
38. In a typographical composing and casting machine, the combination of a composed line containing a matrix dividing the separate measures of the line, means for conveying the composed line to and from casting position,

and a holding device movably mounted in the machine frame so as to be engaged with and disengaged from said



matrix before and after casting, respectively, the said holding device being adjustable in position to correspond with different locations of the matrix in the composed line.

1,377,821. PUMP. JOHN ERIKAINEN, Pelkie, Mich. Filed Mar. 23, 1920. Serial No. 368,102. 2 Claims. (Cl. 121—93.)



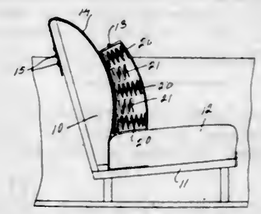
1. In a turbine, a casing a rotor journaled within the casing, a water supply tank communicating with the casing, said casing having a valve controlled outlet, a valve controlling the communication between the tank and said casing, said rotor having a plurality of spaced pockets, a blade normally positioned in each pocket and pivoted for outward swinging movement, each blade having an opening, a valve pivotally associated with each blank and adapted to gravitate to a position to close said opening, and means for positively actuating each blade at a predetermined interval to move the blade from its pocket.

1,377,822. TREATMENT OF IRON ORES. FREDERIC A. EUSTIS. Milton, Mass., assignor of three-fourths to Charles Page Perin, New York, N. Y. Filed Apr. 27, 1920. Serial No. 377,006. 19 Claims. (Cl. 204—15.)

1. The method of treating an iron ore containing alumina, comprising dissolving the iron and alumina out of the ore with a suitable solvent, precipitating the alumina by the addition of a suitable chemical reagent, and precipitating the iron by electrolysis.

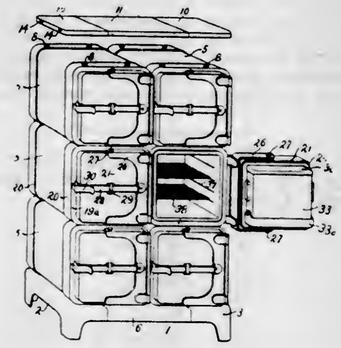
1,377,823. AUXILIARY BACKREST FOR AUTOMOBILES. JOHN L. FITZGERALD, Emporia, Kans. Filed Aug. 4, 1920. Serial No. 401,156. 2 Claims. (Cl. 155—179.)

1. The combination with a vehicle seat embodying the usual seat support, seat, and seat back, of an auxiliary cushion adapted to be placed against the front face of the seat back, an attaching member secured to the upper end of said cushion and adapted to extend over the top of and be adjustably secured to the rear face of said seat back, and a pliable member secured to the lower end of



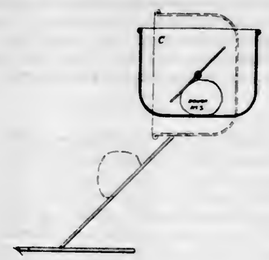
said cushion and adapted to extend intermediate said seat support and said seat and be held in place by the weight of the seat and the persons occupying the seat.

1,377,824. REFRIGERATOR. JOHN S. FORBES, Philadelphia, Pa. Filed Mar. 11, 1919. Serial No. 282,012. 6 Claims. (Cl. 45—71.)



4. The combination in a refrigerator of a series of structurally independent refrigerating cells each having an opening and a vertically hinged door therefor; independent cooling means for each of said cells; and means for holding the cells together to form a unitary structure, each of the cells having similar opposite faces to permit of its inversion when it is required to alter the direction in which its door shall open.

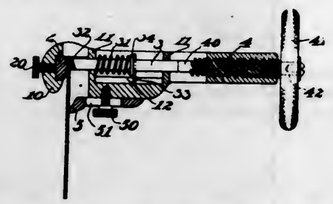
1,377,825. MANUFACTURE OF BREAD. CHARLES FOX, EDWARD FOX, and ROY S. FOX, York, Pa., assignors to Roy S. Fox, York, Pa. Filed Apr. 17, 1918. Serial No. 229,141. 3 Claims. (Cl. 99—10.)



1. The process of making bread, which comprises preparing a fermented dough containing wheat flour and other ingredients normally included in an ordinary

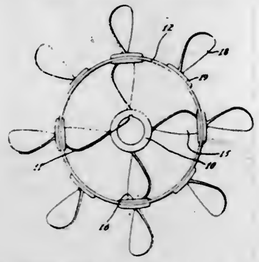
wheaten dough, preparing a dough of non-wheat cereals mechanically incorporated with other materials without fermentation, mixing the two doughs together and operating on the mixture to prevent active fermentation, cutting, balling and proofing portions of the mixed dough, and then baking such portions before fermentation of the combined doughs becomes active.

1,377,826. SAW-SETTING APPARATUS. JOHN T. FRANCIS, Okanogan, Wash. Filed Mar. 5, 1920. Serial No. 363,497. 2 Claims. (Cl. 76—60.)



1. A saw setting apparatus comprising, in combination, a frame, an anvil slidable therein transversely of the frame, said anvil being beveled to the angle of set of the saw, and the ridge formed by said bevel being set at an angle to the line of movement of the anvil in the frame, a plunger reciprocable in the frame and coöperating with said anvil, and means for projecting said plunger toward the anvil.

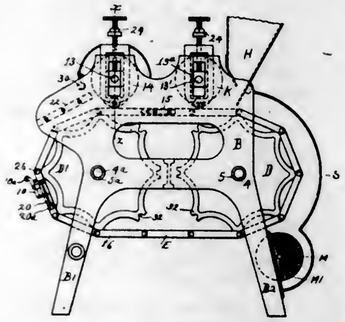
1,377,827. SCREW-PROPELLER. IGNACI GARELA, Brooklyn, N. Y. Filed Oct. 11, 1920. Serial No. 416,019. 1 Claim. (Cl. 170—166.)



A propeller comprising a central hub, a ring concentric with said hub and provided with a series of slots and with holes at the sides of the slots, an inner series of blades between said hub and said ring and formed integrally upon the former, each blade being formed at its outer end with a plate provided with holes registering with said first named holes, and a plurality of blades carried by the ring and having their inner ends formed with plate portions engaging against the outer periphery thereof, said last named plate portions being formed with ribs fitting within said slots and being also formed with holes registering with said first and second named holes for the reception of securing members.

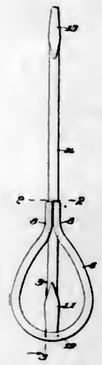
1,377,828. DEVICE FOR SPLITTING FIGS. ELMER E. GEESE, Fresno, Calif. Filed Mar. 1, 1920. Serial No. 362,352. 5 Claims. (Cl. 146—6.)

1. In a device of the character described the combination of a draper constructed with a plurality of cross sections, each having a plurality of clamps constructed with the jaws in line with the jaws on the next adjacent section, means for closing all the clamps on each cross section independently of the clamps on the other sections and keeping them closed while the draper is passing a predetermined space in its line of travel, a hopper having an opening directly above the draper on a space where the clamps are open, a rotary brush extending across the draper on the upper surface thereof between the hopper and the spaced portion of the line of travel where the



clamps are closed, said brush being adapted to remove loose articles extending above the jaws of the clamps, a plurality of knives adapted to pass at a fixed distance from the draper and alined with the center line of the clamps, substantially as described.

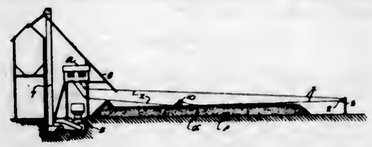
1,377,829. TOOL. ANDREW J. HAGER, Quincy, Mass. Filed Mar. 27, 1920. Serial No. 369,256. 2 Claims. (Cl. 145—61.)



1. A hand-tool of the screw-driver type, consisting of a bowed metal handle whose end portions are brought together in parallel relation to form a spring clamp whose proximate faces are longitudinally grooved, these grooves being semi-circular in cross-section, the inner face of the bowed part of the handle being provided with an elongated notch extending longitudinally of the handle member, and a double-ended reversible shank whose body is cylindrical in cross-section and either of whose screw-engaging blades is adapted to seat in the aforesaid notch when the shank is clamped in place, said shank being adapted for rotation within the clamping members before its screw-engaging blade is seated in said notch.

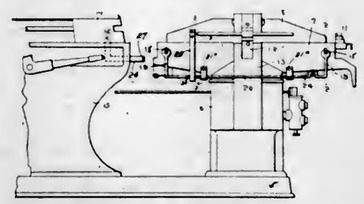
1,377,830. DRAG-SCRAPER. WILLIAM E. HALE, Fort Washington, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1920. Serial No. 357,096. 3 Claims. (Cl. 37—54.)

1. The combination in a scraper for handling granular material, of a body portion open at the front and at the bottom; a bail pivoted to the body portion at or near the bottom and extending in front of the scraper; and a rope connected to the bail and to the rear of the scraper so



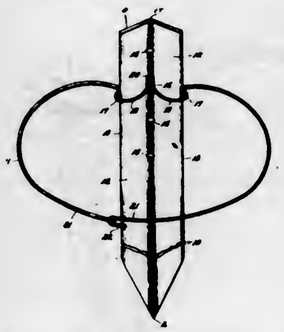
that the bail remains in substantially a horizontal position when the body portion is in a vertical or a horizontal position.

1,377,831. ATTACHMENT FOR CAKE-FORMERS. ALFRED C. HAMMOND, Columbia, S. C. Filed July 22, 1920. Serial No. 398,288. 11 Claims. (Cl. 100—51.)



1. An attachment for cake formers including opposed movable pins arranged in a cake former body for maintaining the press cloth in position during the folding thereof.

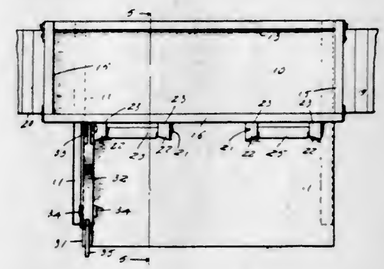
1,377,832. TREE OR PLANT SUPPORT. EDWARD HANNER, Philadelphia, Pa. Filed July 26, 1920. Serial No. 398,856. 2 Claims. (Cl. 47—12.)



1. A tree or plant support comprising a standard provided with openings and formed of a V-shape in cross section to provide diverging sides of the openings formed at the apices thereof and a hoop having a portion formed to provide inwardly extending ears and an outwardly and upwardly extending hook, the latter engaging with the standard through one of the openings thereof with the sides of the standard extending into and engaging with the ears of the hoop.

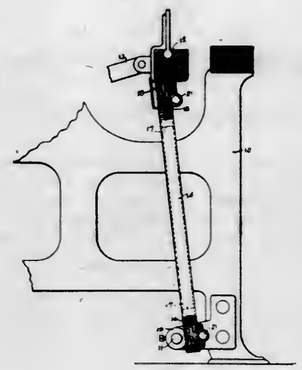
1,377,833. HOG CATCHING AND HOLDING DEVICE. WILLIAM R. HOISINGTON, Walthill, Nebr. Filed Apr. 3, 1920. Serial No. 371,001. 8 Claims. (Cl. 119—99.)

1. An animal catching and holding device comprising a pen including a wall movably mounted for swinging movement from a vertical to a horizontal position, feet engaging elements connected with the movable wall and each having relatively stationary jaws, relatively movable jaws, the movable jaws and stationary jaws having their



adjacent faces cut to provide foot receiving sockets and means for moving the movable jaws into and out of operative relation to the stationary jaws and releasably holding the movable jaws in an operative position.

1,377,834. LAY-SWORD. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 26, 1919. Serial No. 347,369. 1 Claim. (Cl. 139—74.)

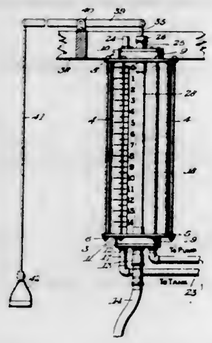


In a loom having a lay and a rock-shaft, a lay sword comprising a cylindrical member having threads of opposite hand at its two ends, a casting threaded on the upper end of said cylindrical member and secured to the lay, a second casting threaded to the lower end of said cylindrical member and mounted on the rock-shaft, and means to firmly secure said member against rotation in adjusted position in said castings.

1,377,835. OUTLET-VALVE FOR GASOLENE-DISPENSING APPARATUS OF FILLING-STATIONS. CHARLES H. HUGHES, Denver, Colo., assignor of one-half to Fred C. Cramer, Denver, Colo. Filed June 25, 1920. Serial No. 391,762. 11 Claims. (Cl. 221—100.)

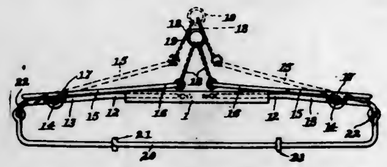
1. In an apparatus of the character described, the combination with a closed liquid-measuring container having a liquid outlet pipe in its lower end and an air inlet pipe at its upper end, of a gravity tube, the end portions of which are slidably mounted in said pipes, the portion of said tube in said outlet pipe having outlet openings,

means for lifting said tube to expose the outlet openings therein, means for closing the air inlet, simultaneously



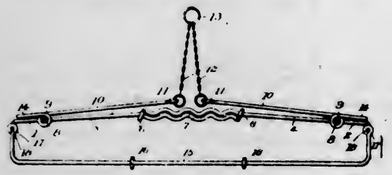
with the opening of the liquid outlet, and a vent in the container.

1,377,836. ADJUSTABLE GARMENT-HANGER. THEODORE KAUFER, New York, N. Y., assignor to Kaufer Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed July 31, 1920. Serial No. 400,327. 8 Claims. (Cl. 211—13.)



1. In a garment hanger, the combination with a central connecting member having spaced openings arranged at different distances from its ends, of shoulder members having lateral projections to engage any of said openings for adjusting the hanger to fit different sizes of garments.

1,377,837. ADJUSTABLE GARMENT-HANGER. THEODORE KAUFER, New York, N. Y. Filed Oct. 15, 1920. Serial No. 417,099. 4 Claims. (Cl. 211—13.)

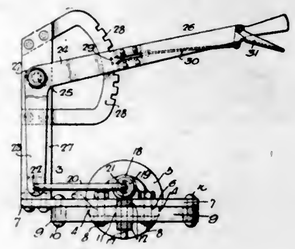


1. The combination, in a garment hanger, with shoulder members having corrugated overlapping portions, the corrugations of one member interfitting with those on the other member, of means on each member embracing the overlapping portion of the other member, and means for supporting the hanger.

1,377,838. CEREAL COFFEE. THEOPHILUS KLOSS, Mankato, Minn. Filed Oct. 2, 1920. Serial No. 414,167. 2 Claims. (Cl. 99—11.)

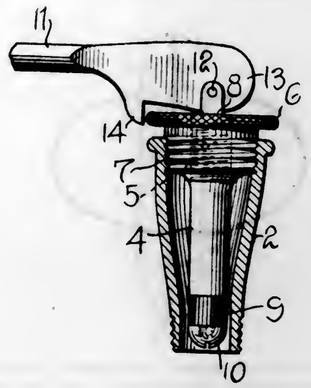
1. A process of making a coffee substitute which comprises crushing clean whole grain, moistening but not saturating the crushed grain with a solution containing sugar, pressing the moistened mass into a cake, allowing the cake to stand for 24 to 48 hours, disintegrating the cake to a powder, drying the powder and roasting the product to a coffee-brown color.

1,377,839. DRAFT APPLIANCE FOR TRACTORS. WILLIAM E. LAW, Philadelphia, Pa., assignor of one-half to William D. Gash, Philadelphia, Pa., and one-half to Gideon M. Stull, Chester, Pa. Filed June 10, 1920. Serial No. 387,946. 4 Claims. (Cl. 213—67.)



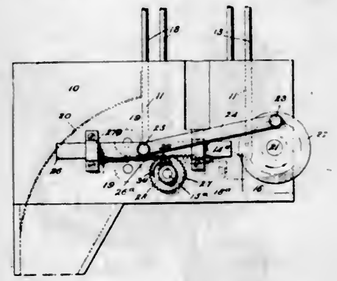
3. In a hitching device, the combination with a bracket to be secured to a tractor, of a horizontal rail rigid with said bracket, a trolley mounted on said rail and constituting a hitching member, a pivoted lever carried by said bracket, a pivoted link connecting said lever with the trolley, a toothed segment, and a detent carried by said lever to engage the toothed segment.

1,377,840. PIPE-STOPPER. FRANK W. LATHAM, Alexandria, Va. Filed Sept. 2, 1915. Serial No. 48,603. 1 Claim. (Cl. 137—76.)



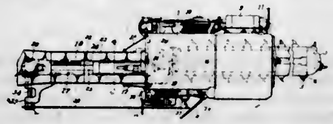
In a pipe stopper of the class described, a series of thumb nuts of different sizes, each provided with a screw threaded opening through the center thereof, a tube provided at its upper end with a screw threaded portion and adapted to be retained by the screw threaded portion of the thumb nut, a rod provided with screw threads at its lower end extending through said tube, a cam shaped lever pivoted at the upper end of said rod, a cap nut threaded on the lower end of said rod, a rubber gasket positioned on said rod between the end of said tube and cap nut and adapted to be laterally expanded by the movement of said cam shaped lever, as and for the purpose set forth.

1,377,841. BLANK OR SHEET FEEDING MECHANISM. FRANK W. LEV, Astoria, N. Y., assignor, by mesne assignments, to Lillian Swainson Escobales. Filed Sept. 13, 1917. Serial No. 191,232. 3 Claims. (Cl. 271—41.)



1. In mechanism for feeding blanks or sheets from the bottom of a pile and in combination, a blank segregating and advancing instrumentality for delivering a blank or sheet from the pile, said instrumentality including a stationary supporting member for the pile of blanks, and means carried by said member and adapted to engage a plurality of the lowermost blanks or sheets from the pile for restraining said sheets against advancing movement, said means being ineffective to prevent advance of the lowermost blank or sheet under the operation of the advancing means of the instrumentality, said restraining means comprising a stud of substantially circular contour projecting downwardly from said member, a sleeve positionable on the stud, and a pointed rod or needle adapted to be clamped by said stud and sleeve and project above the top plane of said member.

1,377,842. MINING APPARATUS. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 8, 1917, Serial No. 153,471. Renewed Apr. 2, 1921. Serial No. 458,088. 8 Claims. (Cl. 262—30.)



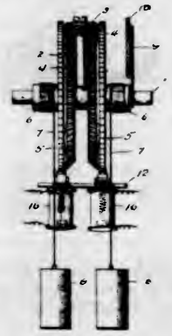
1. In a mining apparatus, the combination with a mining machine adapted to be moved along the face of the coal to form a kerf at the base thereof, a supplemental frame detachably connected to and movable with said mining machine, conveying mechanism mounted upon said supplemental frame adapted to receive the coal cuttings from the mining machine and remove them from proximity therewith.

1,377,843. SOAP. LEONARD MERRITT LIDDLE, Pittsburgh, Pa., assignor to Andrew Jergens Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 7, 1919. Serial No. 309,080. 8 Claims. (Cl. 87—16.)

1. A solid soap composition of a neutral or nearly neutral character, comprising soap and alkali metal salt of a lower alifatic acid.

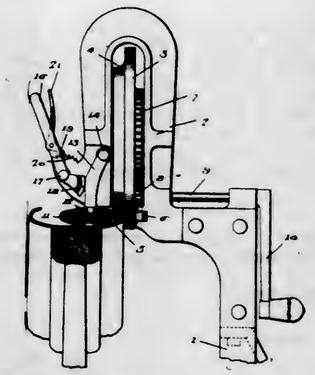
1,377,844. SYNCHRONOUS TRANSMITTER. BRUNSON S. MCCUTCHEN, U. S. Army, and HAROLD E. WILLIAMS, Carthage, Mo. Filed Sept. 10, 1919. Serial No. 322,993. 8 Claims. (Cl. 235—92.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. In a device for duplicating and indicating the motion of a remote rotating body, the combination with a pair of reversely and independently rotatable ratchet-wheels, of a rotatable shaft upon which said ratchet-wheels are loosely mounted, a pair of reversely and independently rotatable gear-wheels also loosely mounted on said shaft



and each movable with its complemental ratchet-wheels, means controlled by the rotation of said gear-wheels for rotating said shaft, and electrically-controlled mechanism for rotating said ratchet-wheels.

1,377,845. RIM-REPAIRING MACHINE. LEWIS CASCO MCDONALD, Page, Nebr. Filed May 15, 1919. Serial No. 297,275. 4 Claims. (Cl. 153—29.)



1. A machine for repairing clencher rims of vehicle wheels having their edge portions bent outwardly and toward one another, comprising a wheel formed to fit one of said edge portions of the rim on the exterior thereof, a second wheel of a diameter less than the distance between the edges of said rim and having its edge portion arranged to fit within said edge portion of the rim, means for mounting the wheels and providing for the movement of the second wheels to and from a position between the edge portions of the rim to move into and out of the rim, and for supporting the second wheel in operative position with its axis substantially radial of the rim between the edges thereof, and means for applying pressure to said wheels.

1,377,846. BINDING-STRIP. HARLEY J. MEGLEY, Chicago, Ill., assignor of fifty per cent. to himself and fifty per cent. to Leigh G. Nelson, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,677. 2 Claims. (Cl. 229—43.)

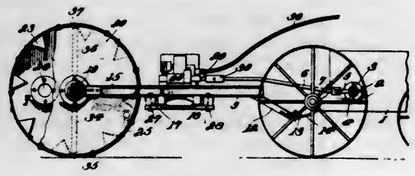
1. A cover for a receptacle comprising a round drawn wire having a relatively narrow slot cut longitudinally in

the body thereof and a sheet of flexible non-metallic material of substantially uniform thickness lying in the slot,



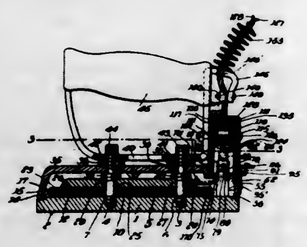
the sides of the slot being crimped upon the sides of the sheet, said slot being of a width substantially equal to the thickness of a sheet before crimping.

1,377,847. TRACTOR-PROPELLED SPRAYING APPARATUS. SAMUEL J. MILLER, Winter Haven, Fla. Filed Sept. 13, 1920. Serial No. 409,789. 3 Claims. (Cl. 299—45.)



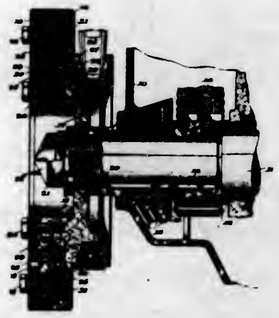
1. A spraying apparatus comprising a frame having coupling means adapted to detachably connect said frame with a tractor, a mixing drum carried by said frame and rotatable as said frame is propelled, a pump mounted on said frame, a shaft connected to said pump and extending forwardly of said frame and provided with means for detachably connecting said shaft with a driving member on said tractor, connections from said pump to said drum for withdrawing solution therefrom.

1,377,848. THERMAL CIRCUIT-CONTROLLER. NAGAKATA NISHI and NAGASUMI NISHI, Berkeley, Calif. Filed July 5, 1919. Serial No. 308,783. 7 Claims. (Cl. 200—138.)



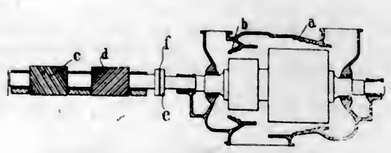
1. In a thermal circuit controller, a base, an expansible and contractible stud mounted on said base, a threaded shank on said stud, a threaded sleeve screwing on said shank, an indicator on said sleeve, a scale to which said indicator points, a cap screwing on said sleeve, a pivotally mounted arm, a contact, a second contact on said arm for engaging said first contact, said arm being located to be engaged by said cap to swing the arm and disengage said contacts when said stud has expanded under predetermined degree of heat.

1,377,849. VIBRATION-DAMPING DEVICE. FRANK W. OFELDT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 29, 1919. Serial No. 300,708. 8 Claims. (Cl. 74—6.)



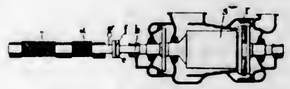
1. A vibration damper having an inner member, an outer member composed of two axially separated parts, said inner and outer members being frictionally connected, and spring means for connecting the two parts of said outer member.

1,377,850. GEARED-TURBINE SYSTEM. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, and LOUIS MORTIMER DOUGLAS, Newcastle-on-Tyne, England; said Cook and said Douglas assignors to said Parsons. Filed Oct. 31, 1918. Serial No. 260,552. 1 Claim. (Cl. 74—7.)



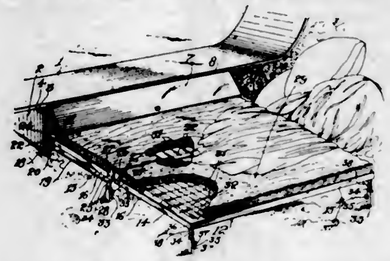
A geared turbine system comprising in combination, a turbine rotor, a pinion shaft, a fixed coupling between said rotor and shaft, double helical teeth on said pinion cut at different angles, the longitudinal position of said turbine rotor being determined by said helical teeth being cut at different angles, as and for the purpose set forth.

1,377,851. GEARED-TURBINE SYSTEM. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, and LOUIS MORTIMER DOUGLAS, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Original application filed Oct. 31, 1918, Serial No. 260,552. Divided and this application filed Aug. 11, 1919. Serial No. 316,921. 4 Claims. (Cl. 74—7.)



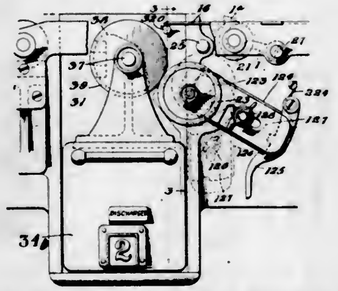
1. In a geared turbine system, a rotor, a shaft co-axial with the rotor and connected to it by a rigid coupling, a double helical pinion mounted on said shaft, the oppositely inclined parts of said pinion being of unequal length whereby the pressure per unit length of tooth of the intermeshing double helical pinion will be uniform, substantially as described.

1,377,852. FOLDING BED FOR AUTOMOBILES. JOHN WILLIAM PATTERSON, Oklahoma, Okla. Filed Sept. 11, 1920. Serial No. 409,555. 3 Claims. (Cl. 5—72.)



1. In a foldable bed, a housing to be supported on the running board of an automobile, a sectional foldable bed frame having guide connections with the bottom of the housing, means for detachably latching one of the sections of the bed frame to the housing, and legs for the sections of the bed frame.

1,377,853. INKING MECHANISM. ARTHUR H. PITNEY, Wilmette, Ill., assignor to Pitney-Bowes Export Corporation, Stamford, Conn., a Corporation of Delaware. Original application filed Mar. 25, 1920, Serial No. 368,701. Divided and this application filed June 1, 1920. Serial No. 385,681. 9 Claims. (Cl. 101—352.)



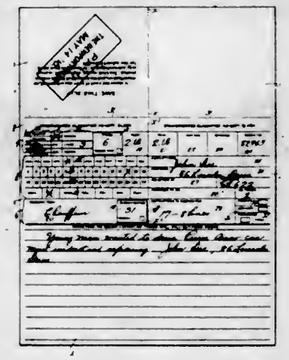
1. In a machine of the character specified, a printer; an inker; an adjustable support for said inker, whereby it may be moved into position to contact with the printer or out of position to contact therewith; and means for setting the inker when out of operative position so that when so set it will properly ink the printer when moved into inking position.

1,377,854. SPARK-PLUG. ARTHUR K. ROBERTS, Quincy, Mass. Filed Apr. 15, 1919. Serial No. 290,127. 3 Claims. (Cl. 123—169.)



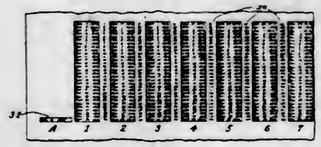
1. In a spark plug, the combination, of a shell, a central electrode extending axially through said shell, a second electrode adjustably carried by the inner end of said shell for adjusted movement toward or from the terminal of said central electrode, a set screw extending through said adjustable electrode and adapted for biting engagement with said casing to lock said adjustable electrode against movement.

1,377,855. STANDARDIZED CLASSIFIED-AD-COPY BLANK. BASIL L. SMITH, Philadelphia, Pa. Filed July 16, 1918. Serial No. 245,174. 3 Claims. (Cl. 283—1.)



1. A standardized classified ad-copy blank consisting of a sheet formed of three horizontally extending sections, one end section having a portion thereof left blank for the reception of a written ad and the other end section and the middle section each being vertically divided and provided with printed matter to constitute a reecipt section and a bookkeeper's section, the said printed matter on the two sections being similar in substance and arrangement but upon opposite faces of the sheet, a dividing line between the latter two sections such that when the end section is folded back thereon against the middle section the corresponding printed matter upon the respective sections is brought into registration and carbonized material upon the back of the middle section for transferring to the said end section matter written on the middle section when the said end section is folded thereunder.

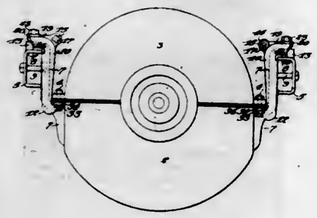
1,377,856. TIME-CALCULATING MACHINE. EDWARD MAYBERRY SMITH, Kansas City, Mo., assignor of one-third to Bettie Waddell Smith, Kansas City, Mo., and one-third to Robert Emmart Smith, St. Louis, Mo. Filed July 14, 1916. Serial No. 109,400. 1 Claim. (Cl. 235—86.)



In a time calculating machine for computing interest, a series of columns of dates, each of said dates naming a month, a day of the month and a certain year, numerals running successively from 1 to 390, inclusive, and arranged parallel with said columns of dates with thirty of the numbers indicated by said numerals to each column of said dates, and means to display said dates so that said numerals, counting from and not including the initial date, will instantly and simultaneously indicate the day the month and the year of terminal dates of thirty

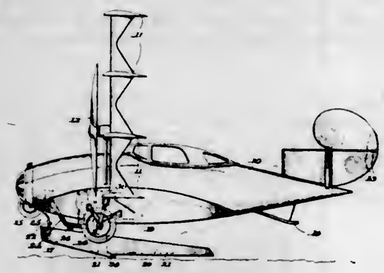
days, sixty days, and ninety days following the initial date, and multiples of thirty days, sixty days, and ninety days from and after the initial date and simultaneously indicate any and all terminal dates including the year from and after the initial date to and including three hundred and ninety days from the initial date.

1,377,857. CRANK-CASE SUPPORT FOR AUTOMOBILES. WILLIAM STORRIE, Providence, R. I., assignor to Apco Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed June 26, 1919. Serial No. 306,949. 10 Claims. (Cl. 180—64.)



1. In a motor-vehicle construction, the combination with the chassis-frame having longitudinal side-sills, and a flanged power-plant housing arranged therebetween, of a two-part support for said housing comprising right and left-hand complemental members adapted to rest on the side-sills in joined relation and provided with arms reaching down beneath the flange of the housing to adapt them to be secured thereto.

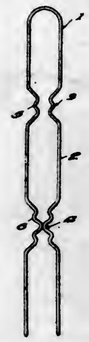
1,377,858. AIRCRAFT. WILLIAM B. STOUT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 27, 1917. Serial No. 204,232. 7 Claims. (Cl. 244—2.)



2. In an aircraft, the combination with a body having a cockpit, of a movable float adapted to be brought up close to the body and having a recess to receive said cockpit.

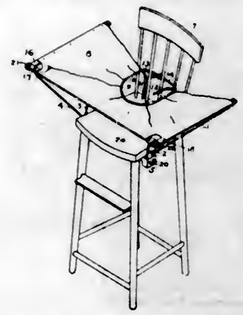
1,377,859. HAIRPIN. ELIZABETH M. SUTHERLAND, Kansas City, Mo. Filed Jan. 2, 1918. Serial No. 209,984. 1 Claim. (Cl. 132—50.)

A hair pin comprising a wire bent at its mid length to form two equal and parallel legs, each of said legs being bent inwardly at spaced apart points to form two minor sections and three parallel major sections, the minor sections lying in a plane within that of the major sections, said major sections being of substantially the same length, the inner minor sections being centrally crimped to form outer laterally spaced corrugations, and the outer minor



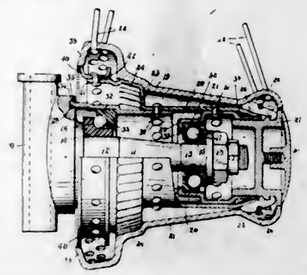
sections centrally crimped inwardly to form contacting bearings, and crimped outwardly on opposite sides of said bearings to form outer corrugations.

1,377,860. CHILD'S PLAY-TABLE. EDWARD G. THOMAS, Springfield, Ill. Filed Mar. 31, 1917. Serial No. 159,004. 10 Claims. (Cl. 155—188.)



1. In a child's play-table, the combination of means for supporting a child in a sitting position, brackets secured to the seat thereof, a pair of upwardly and divergently extending arms removably supported by said brackets on each side of said seat, and a flexible apron supported by said arms above the level of said seat.

1,377,861. MOTOR-VEHICLE. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 24, 1916. Serial No. 110,877. 4 Claims. (Cl. 301—9.)



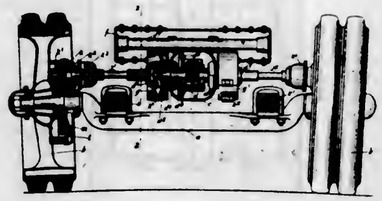
4. A wheel hub comprising an inner member composed of a part adapted to receive an outer hub member in concentric relation therewith and an annular channel part separately formed and secured to the first said part, said channel part opening outwardly and adapted to receive a flanged portion of such outer hub member when the latter is in eccentric relation with the inner member, and an outer member adapted to be removably secured to the inner member and having an inturned flange adapted to coöperate with said channel part.

1,377,862. SPECTACLE-CLIP. ELMO VAUGHAN, Cincinnati, Ohio. Filed July 22, 1920. Serial No. 398,054. 3 Claims. (Cl. 88—42.)



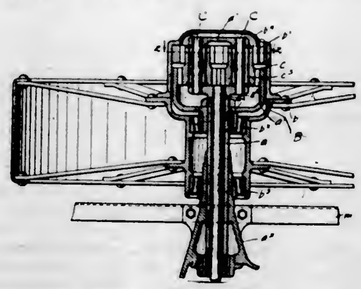
1. A spectacle mounting means comprising a slotted lens rim, a detachable U spring clip adapted to engage opposite sides of the lens rim, pins extending from the interior of the clip and adapted to engage in slots in the lens rim, said clip being adapted to have a bow mounted on its exterior.

1,377,863. BRAKE FOR MOTOR-VEHICLES. MAURICE WALTER, New York, N. Y., assignor to Walter Motor Truck Company, New York, N. Y., a Corporation of New York. Filed June 19, 1919. Serial No. 305,211. 3 Claims. (Cl. 74—99.)



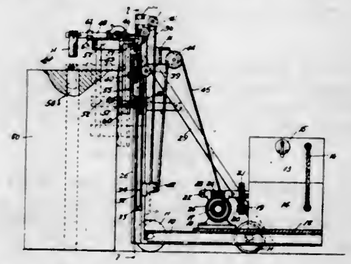
1. In a motor vehicle, in combination with the frame, axle and wheels thereof, a differential gear mounted on the frame to move therewith and independent of the axle, driving gears carried on the wheels, driving pinions therefor mounted to move therewith, Cardan drive shafts flexibly connected to the differential gear and to the driving pinions for the wheels, brake drums carried with the Cardan shafts, and brake bands for said drums mounted to move with the frame.

1,377,864. DRIVE FOR SELF-PROPELLED VEHICLES. MAURICE WALTER, New York, N. Y., assignor to Walter Motor Truck Company, New York, N. Y., a Corporation of New York. Filed July 1, 1919. Serial No. 307,929. 5 Claims. (Cl. 74—34.)



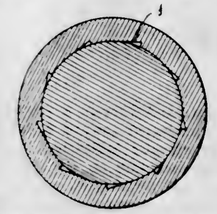
1. In a wheel tractor, in combination with a tubular dead axle, bearings for the wheel on the dead axle and a drive shaft extending through the dead axle, a gear fixed on the wheel beyond the dead axle, a non-rotatable gear of different pitch diameter from the first named gear fast with relation to but beyond the dead axle, a carrier on the drive shaft beyond the dead axle and compound spur gears journaled in the carrier and having sets of teeth of different pitch diameter meshed with the two first named gears respectively.

1,377,865. TRUCK. OTTO L. E. WEBER, St. Cloud, Minn. Original application filed May 8, 1919, Serial No. 295,770. Divided and this application filed Aug. 30, 1919. Serial No. 320,829. 8 Claims. (Cl. 254—2.)



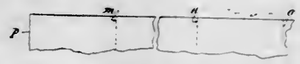
1. A truck comprising a carriage mounted for vertical movement therein, means having a downwardly turned end for entering a vertical opening in the article to be lifted, mechanism for moving said means to clamp the article, and means for raising said carriage and the article.

1,377,866. LUBRICATION OF MACHINERY. JOSEPH WALWYN WHITE, Widnes, England. Filed May 29, 1920. Serial No. 385,305. 2 Claims. (Cl. 64—24.)



1. A lubricating device for machinery comprising curved parts moving relatively to one another and having small grooves cut in one of the contacting surfaces, one side of which is tangential to the curved surface with large intermediate uninterrupted surfaces supporting the load intermediate the grooves.

1,377,867. TOY AEROPLANE. WILLIAM EDWARD APPLEBY, Newcastle-on-Tyne, England. Filed Oct. 6, 1920. Serial No. 415,131. 1 Claim. (Cl. 244—14.)

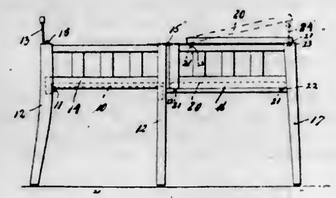


A model or toy aeroplane constructed of paper, the leading edges of the wings being formed by folding back a portion of the paper, returning it over the leading edge, folding in the end and connecting the surfaces in contact with the main body of the plane above and below.

1,377,868. CONVERTIBLE CHAIR. JOHN BEZOLD, Jersey City, N. J. Filed Sept. 2, 1920. Serial No. 407,676. 2 Claims. (Cl. 155—44.)

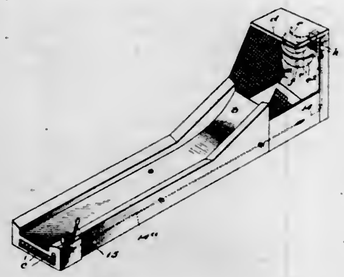
1. In a convertible chair consisting of a seat, legs, back and side arms, a superstructure pivotally secured to said arms to fold vertically, said superstructure being adapt-

ed in folded position to form part of the chair and in unfolded position to convert the chair into a combination chair and desk or crib, and a removable member on the



seat which is adapted to fit over the bottom of the inverted superstructure to serve as the bottom of the foot end part of the crib or over the top of the inverted superstructure to serve as a top of the desk.

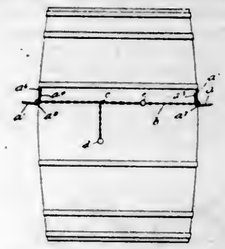
1,377,869. INDICATING MECHANISM FOR GAME APPARATUS. WILMUTH E. BLACKBURN, Summit, N. J. Filed Feb. 25, 1919. Serial No. 279,103. 14 Claims. (Cl. 235—1.)



2. In game apparatus wherein a succession of balls or missiles may be projected toward a target having goal values, means for visually indicating the values of goals made, said means including an element rotatable in opposite directions and forming a carrier for indications arranged in a definite value-progression, said element being positioned in definite relationship to an indication exposure opening and having its movements in one direction by a succession of stages to rotate the element through a totality of angular distances of a magnitude determined by the accumulative values of the succession of goals made and in the opposite direction continuously an angular distance not less than such total distance, and means including control mechanism operative in the element movements in both directions for providing and controlling such element movements, said latter means including power means permanently active to provide element movements in the direction of stage advance, and restraining means normally active to prevent such element movement and rendered temporarily inactive in the presence of goal value production.

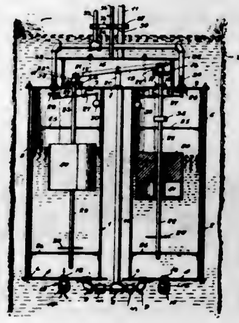
1,377,870. LIFTING-TACKLE. DONAT BROUILLARD, Haverhill, Mass. Filed June 2, 1920. Serial No. 386,055. 2 Claims. (Cl. 294—16.)

1. A lifting device for barrels and like objects, comprising a pair of angularly shaped levers each having a transverse aperture throughout substantially its entire length, intermediate its ends and a continuous chain adapted to be drawn freely through said apertures and about the object, permitting disposition of the levers thereon at opposite points, said chain having means at one end adapted to be engaged with the links thereof at any point between the levers, and said levers being adapted to be fulcrumed at corresponding ends against oppo-



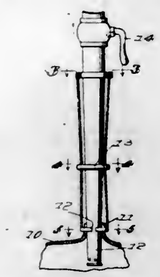
site sides of the object in position to draw outwardly on the chain, at the points engaged, as the opposite ends of the levers are lifted.

1,377,871. HYDRAULIC PUMP. CLARENCE S. BOWEN, Pickens, S. C. Filed Jan. 27, 1920. Serial No. 354,401. 6 Claims. (Cl. 103—8.)



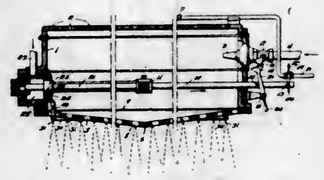
1. In a hydraulic pump, a plurality of cylinders each having a water inlet and outlet valve, automatically operated compressed air inlet and outlet valves for said cylinders, and means for breaking an equilibrium of the valves should the air pressure be cut off, and the pump is inert when pressure is on.

1,377,872. APPARATUS FOR SKINNING CATTLE. WILLIAM S. CALLERY, Wheatland, Calif. Filed June 13, 1919. Serial No. 304,002. 1 Claim. (Cl. 17—13.)



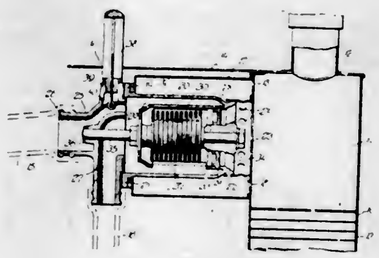
In a means for dehiding cattle, a nozzle provided with a manually controlled valve at the end remote from the nose, and a clamp secured to the nozzle and consisting of a pair of semi-circular jaws, swinging arms by which the jaws are carried, and a clamping ring to move the jaws into clamping engagement with the edges of the hide adjacent a puncture formed therein, the ring being movable in the direction of the length of the nozzle, and traversing the arms by which the jaws are carried.

1,377,873. SAFETY DEVICE FOR HYDROCARBON-BURNERS. WILLIAM H. CHADICK, Suffern, N. Y. Filed Mar. 28, 1919. Serial No. 285,829. 9 Claims. (Cl. 158—36.)



1. Means for extinguishing accidental fires in liquid fuel burners, comprising a steam chest adapted to admit live steam to the interior of and about the burner, a valve in the chest for controlling such admission, and means exposed to the heat of the accidental fire for thermostatically operating said valve to direct live steam against the fire.

1,377,874. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 11, 1916. Serial No. 96,879. 16 Claims. (Cl. 123—178.)



1. In a motor vehicle, in combination, a radiator having a tank extension in the rear thereof, a thermostatically controlled valve in said tank extension, a temperature indicator at the intake end of said tank extension, and a motor bonnet covering said tank extension and having an opening through which said indicator passes.

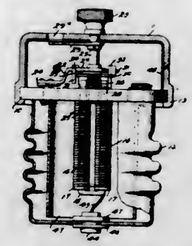
1,377,875. CONTROLLABLE TORCH. CASTLEMAN COEN, San Francisco, Calif. Filed June 14, 1920. Serial No. 388,807. 8 Claims. (Cl. 158—10.)

1. A controllable torch for the described purpose, the same comprising a handle provided at one end with a body of absorbent material, a holding reservoir at the other end and adapted to contain a body of hydrocarbon mixture through the handle, means for controlling the flow of liquid from the holding reservoir to the body of absorbent material, and means permanently mounted on the



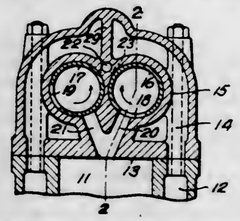
handle capable of outward longitudinal movement thereon for snuffing out the flame of the torch.

1,377,876. CIRCUIT-BREAKER. GWYN OSCAR OWEN DAVIES, Cle Elum, Wash. Filed Dec. 3, 1919. Serial No. 342,050. 7 Claims. (Cl. 200—106.)



1. A circuit breaker including a hollow plug adapted to plug receptacles, separate contact elements adapted to be placed in circuit with conductor wires, an electromagnetic device in circuit with said contacts and comprising coils housed within said hollow plug, a swingable circuit-breaking device adapted to engage and separate said contacts or to assume a position away from said contacts, and means tending automatically to swing said circuit-breaking device into engagement with the contacts, said circuit-breaking device being subject to a predetermined power to be developed by the electric current in said electro-magnetic device.

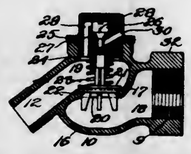
1,377,877. INTERNAL-COMBUSTION ENGINE. WILLIAM J. DUNN, Montreal, Quebec, Canada. Filed Mar. 5, 1920. Serial No. 363,625. 2 Claims. (Cl. 123—59.)



1. In an internal combustion engine, a cylinder, a head therefor, a pair of tubular valves revolubly mounted in

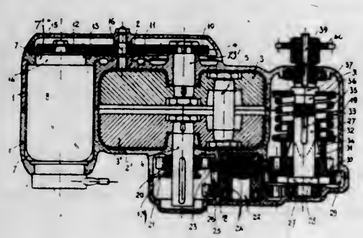
said head, ports in the valves and head, means at one end of the head for revolving said valves, and a single manifold member attached to the opposite end of the head having inlet and outlet passages therein communicating with the respective valves, said manifold holding the valves in operative position in the head.

1,377,878. PIPE-FITTING. CHARLES L. FRENCH, Cambridge, Mass.; Jennie Benner French, administratrix of said Charles L. French, deceased, assignor to Standard Oil Company of New York, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1916. Serial No. 124,829. 2 Claims. (Cl. 277—47.)



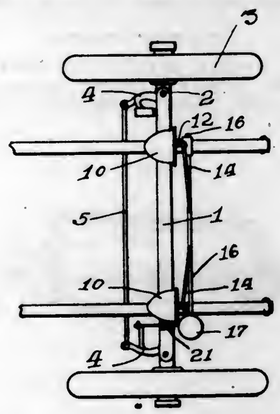
1. A fitting of the character described comprising a body interiorly divided by a partition to provide an outlet chamber and an inlet chamber; an inlet port for the inlet chamber adapted to be connected with a supply of liquid; an outlet port for the outlet chamber; screw threads on the body adjacent said outlet port for use in connecting the latter with a delivery hose; a port through said partition; a check valve controlling said port, said valve closing toward said inlet chamber; a spring for holding said valve closed against the valve lifting effects of the weight of the liquid falling through the hose; an opening in the wall of the body opposite said check valve through which said valve is placed within said body; a cap plug closing said opening and serving as an abutment for one end of said spring, said cap plug being formed with a valve chamber and two vent conduits, one connecting said valve chamber with the outlet chamber and the other connecting said valve chamber with the atmosphere, and a check valve within said valve chamber controlling the vent conduit leading from said valve chamber to the atmosphere, said check valve closing toward the inner end of said last mentioned conduit.

1,377,879. ENGINE FOR MOTORCYCLES AND THE LIKE. ADALBERTO GARELLI, Milan, Italy. Filed Nov. 8, 1919. Serial No. 336,650. 6 Claims. (Cl. 290—1.)



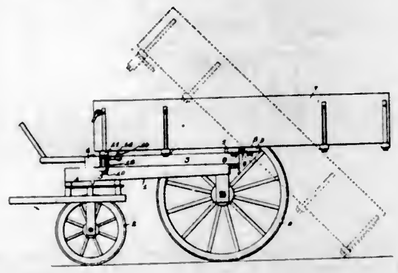
1. An explosion engine for motorcycles and the like, comprising a casing having a plurality of chambers therein; a crank shaft, a magneto, a change-speed gear and a transmission device each in one of said chambers; a partition removably secured to said casing and having an opening wherein the magneto seats; a removable cover on said partition coöperating therewith to provide a chamber; and a set of driving pinions for the magneto arranged in the last-named chamber and including a pinion on the magneto shaft disposed coaxially with the opening in said partition and having a smaller diameter than said opening so as to enable it to pass therethrough.

1,377,880. DIRIGIBLE HEADLIGHT. JAMES GLENNON, Rochester, Minn. Filed Nov. 13, 1919. Serial No. 337,695. 3 Claims. (Cl. 240—62.)



1. The combination with a vehicle including a front axle, wheels connected thereto and mounted to swing relative to the axle, and means for shifting said wheels, of a vehicle body supported by and movable relative to the axle, headlights carried by the body and adapted to rotate about vertical axes, a member carried by the body and shiftable transversely thereof, link connections between said member and the headlights for rotating the headlights in unison when the member is shifted, a longitudinally slotted tubular casing fixedly connected to and depending from said member, a shaft journaled on the axle, an arm movable with the shaft, a roller carried by said arm and movably mounted within the depending casing, and means for transmitting motion to said shaft when the wheels are shifted to steer the vehicle.

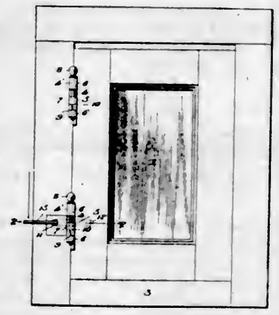
1,377,881. DUMPING-TRUCK. FRANZ M. GOOSSEN, Hillsboro, Kans. Filed Oct. 20, 1920. Serial No. 418,214. 4 Claims. (Cl. 298—38.)



1. A locking mechanism for dumping trucks comprising a pair of rods depending from the forward portion of the body of the truck, collars turnable freely on the rods, lugs on the collars adapted to engage under the supporting framework of the body and prevent rearward tilting of the body, a spring held actuating means for simultaneously operating said lugs.

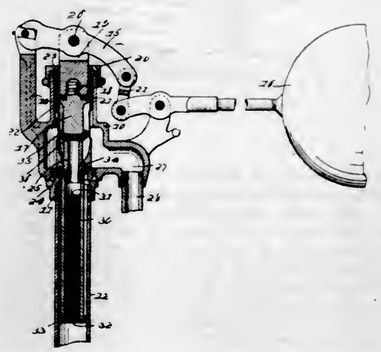
1,377,882. HINGE FOR WINDOWS. FRANS GRÖNMAN, Inwood, N. Y. Filed Aug. 12, 1920. Serial No. 403,036. 6 Claims. (Cl. 16—106.)

3. In combination with a window-frame and sash hinged together, said hinge consisting of alined knuckles provided with openings adapted to receive a pintle, the edges of the abutting knuckles of said hinged members cut away on opposite sides to cause the hinged member carried by the window to nest with the members carried by the sash in such a manner as to lock the window in a closed position, and a lifting lever pivoted for horizontal move-



ment transversely of the window-frame, an arm extending horizontally therefrom and adapted to be received in an opening in the window-sash when the window is closed, the opposite end extending externally of the window-sash, whereby the window may be lifted and the hinged members disengaged to permit the window to swing open.

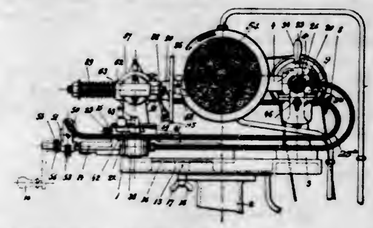
1,377,883. BALL-VALVE FOR CLOSET-TANKS. FRED E. GROSVOLD, Eau Claire, Wis. Filed June 3, 1919. Serial No. 301,444. 4 Claims. (Cl. 137—104.)



3. A ball cock for flush tanks having a casing provided at its upper end with a removable cap nut, a valve cage removable through the upper end of the casing and provided with a flange for engagement by said cap nut, a valve seat tube arranged within the cage and detachably engaged adjacent to its lower end with the lower end of the cage, a silencer having a tube detachably engaged with the lower extremity of the valve seat tube and of a diameter not exceeding that of said cage, and a valve arranged within the cage and having a stem operating in the opening of the said cap nut of the casing.

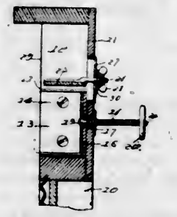
1,377,884. MACHINE FOR GRINDING TOOLS AND FOR SIMILAR PURPOSES. SERGE HERYNGFEL and FÉNELON DUBREUCQ, Charenton, France; said Dubreucq assignor to said Heryngfel. Filed Mar. 28, 1919. Serial No. 285,880. 12 Claims. (Cl. 51—57.)

1. A machine for grinding tools comprising the combination with a fixed frame, of a grinding wheel mounted thereon, a support pivotally mounted on said frame, a carriage transversely movable on said support, a second carriage longitudinally slidable on said transverse carriage, said support having graduations thereon movable relatively to an index mark on the frame whereby the angular movement of said support and carriages may be



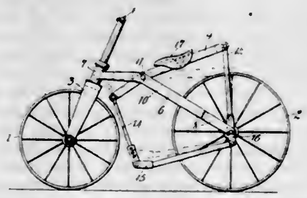
readily determined, a tool holder mounted on said longitudinal carriage, means for reciprocating the longitudinal carriage and consequently the tool holder carried thereby relative to the grinding wheel, and mechanism for advancing the transverse carriage and consequently the tool holder toward the grinding wheel.

1,377,885. WASHBOARD. CHARLES L. HINES, Council Bluffs, Iowa. Filed Nov. 25, 1919. Serial No. 340,595. 1 Claim. Cl. 68—29.)



The combination with a washboard having a soap receiving seat of terminal flanged guides secured to the washboard frame at the extremities of said seat, a follower terminally mounted in said guides for movement toward and from the plane of the rubbing surface of the board, a screw for advancing said follower and having engagement with a feed nut carried by the washboard frame, and a presser foot for contact with the upper edge of a cake of soap arranged in said seat, the said presser foot consisting of a plate provided with a stem centrally disposed with reference to the length of the plate and lying in substantially the same plane with the latter, the stem projecting through a vertically disposed slot in the washboard frame and receiving on its free extremity a wing nut by means of which it may be adjusted toward or away from said follower.

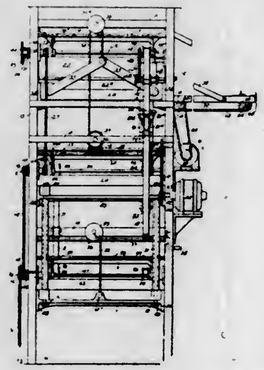
1,377,886. VELOCIPEDE. CHARLES E. HORNIG, Jersey City, N. J. Filed Oct. 26, 1920. Serial No. 419,724. 2 Claims. (Cl. 208—33.)



1. A velocipede, comprising front and rear wheels, a crank axle connecting the rear wheels, a front fork on the

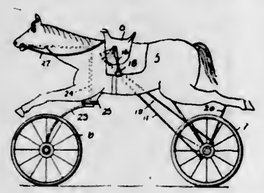
front wheel, a frame bar connecting the front fork and rear axle, a lever positioned across the frame bar, pivotally connected between its ends to said frame bar, and projecting at its respective ends below and above the frame bar, a seat on the rear portion of the lever, a link connecting the rear end of the lever with the crank axle, a forwardly projecting treadle pivotally connected at its rear end to said frame bar, and a rod connecting the forward ends of the lever and the treadle.

1,377,887. APPARATUS FOR THE DEVELOPING, &c., OF FILMS. ROSCOE C. HUBBARD, New York, N. Y. Filed June 29, 1920. Serial No. 392,687. 21 Claims. (Cl. 95—94.)



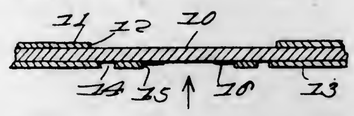
1. In an apparatus for treating films, a film-immersing tank, film-actuating means, and means to move the one relatively to the plane of the other; said first-mentioned means being disposed substantially horizontal, to move the film in approximately a horizontal plane in said tank.

1,377,888. TOY HORSEMOBILE. RAFAEL ASTOR HUNABIAN, San Francisco, Calif. Filed Aug. 19, 1920. Serial No. 404,536. 1 Claim. (Cl. 208—42.)



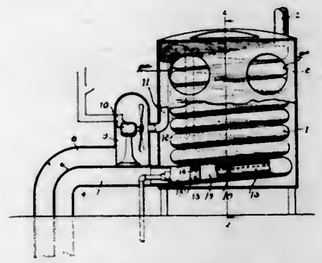
In a toy of the class described, a toy horse, a seat upon the horse, levers extending downwardly on opposite sides of the horse and comprising foot rests for an occupant of the seat, short transverse shafts journaled within the body of the horse and protruding from the sides of the seat, said levers being fixed to the ends of said shafts, links fixed to the shafts within the body of the horse, rods connected to the free ends of said links and extending rearwardly and downwardly through the horse with their opposite ends connected to a crank, said crank comprising an axle with traction wheels for the toy mounted thereon, steering wheels mounted forward of said traction wheels, a downwardly curved fork for supporting the horse on the steering wheels, the ends of said fork terminating in outwardly presented axles for the steering wheels with its opposite meeting ends supporting a plate which in turn provides a rest for the forward part of the horse, a steering post extending vertically within the horse and fixed to said plate, a T-head at the top of said post having an abutment with the top interior of the horse, a transverse cross arm fixed to said post below said T-head, pull cords attached to the ends of said arm, said cords extending forward within the neck of the horse and out of the mouth thereof, pulleys in the corners of the horse's mouth and around which the cords pass rearwardly on the outside of the horse's neck where they may be manipulated by an occupant of the seat for effecting a steering movement of the steering wheels.

1,377,889. DISPLAY-SIGN. DWIGHT W. HUSTON, Springfield, Ohio. Filed May 13, 1920. Serial No. 381,136. 2 Claims. (Cl. 40—135.)



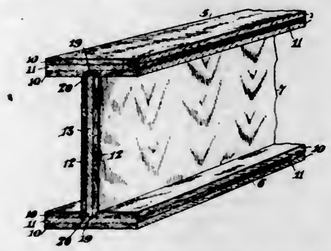
1. An illuminable sign having a light penetrable base provided upon its obverse and reverse surfaces with coatings of which the former is disposed to outline the display matter by exposure of the surface of the base and of which the latter is disposed to outline openings also exposing the base and following the lines of and defining the outlines of the display matter exposed at the obverse surface.

1,377,890. GAS-HEATER. WILLIAM HENRY KELSO, San Francisco, Calif. Filed May 24, 1918. Serial No. 236,345. 1 Claim. (Cl. 126—116.)



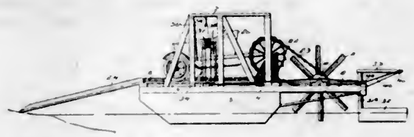
In a heater of the class described, an air heating coil, a casing surrounding said coil and having openings therein, an air intake pipe communicating with the interior of the coil at one end thereof, a burner arranged in the coil at the point of communication with the said air intake pipe, a blower fan having a casing connected directly with the air intake pipe to be supplied with air therefrom and an air delivery pipe leading from the fan casing and extending into the coil casing and arranged to discharge in the space surrounded by the convolutions of the coil adjacent the bottom thereof.

1,377,891. WOODEN BEAM. EUGENE V. KNIGHT, New Albany, Ind. Filed Mar. 22, 1918. Serial No. 223,991. 5 Claims. (Cl. 20—0.5.)



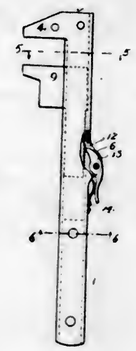
1. In a wooden beam, a flange and a web each built up from a plurality of laminations cemented together, the flange having a longitudinal groove in one face, and the web having a tongue made of a plurality of laminations, said tongue fitting into said groove and holding the flange and web together by interlocking action, the web and flange being cemented together at the point.

1,377,892. AUTOMOBILE-PROPELLED BOAT. JACOB LANE, Anchorage, Alaska. Filed June 30, 1920. Serial No. 393,037. 4 Claims. (Cl. 115—0.5.)



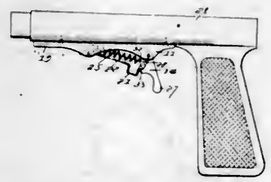
1. In combination, a vessel including means for supporting a motor vehicle, means for utilizing the movement of the drive wheels of the motor vehicle in the propulsion of the vessel, a rudder, a rudder control, and means adjustably supporting the rudder control.

1,377,893. WRENCH. GERHARD M. LEE, Aurora, Ill. Filed May 8, 1920. Serial No. 379,890. 3 Claims. (Cl. 81—136.)



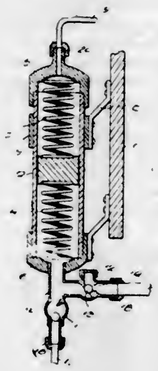
1. A wrench comprising a single sheet of metal cut and bent to provide a handle portion, a body portion having spaced flanges, and spaced jaw extensions, a jaw block riveted between the extensions, and a movable jaw block having slots receiving the flanges of the body portion.

1,377,894. CAP-EXPLODER. ALVAH F. LENT, Newark, N. J. Filed June 2, 1920. Serial No. 385,921. 4 Claims. (Cl. 42—54.)



3. A cap exploder having a base element consisting of a blank provided with lateral flanges and transverse flanges located in operative position with the lateral flanges to form a cap seat, a hammer element provided at an intermediate point in its length with lateral extensions forming trunnions mounted in bearings in said lateral flanges of said base element and bent upon itself at the end remote from said trunnions to form a trigger engaging tongue, an up-struck trigger element having side flanges provided with a seat for engagement with the terminal tongue of the hammer element and also having lateral extensions forming trunnions mounted in bearings in the said flanges of said base element, the end of the trigger blank adjacent the trunnions being extended and bent to form a bearing tongue for contact with the base element, and an actuating spring for said hammer and trigger elements terminally connected to one end of the former and an intermediate point in the length of the latter.

1,377,895. OIL-PUMP. CHARLES LONG, Jeffersonville, Ind., assignor of one-half to Frank Garner, Jeffersonville, Ind. Filed Oct. 9, 1918. Serial No. 257,464. 1 Claim. (Cl. 103—67.)



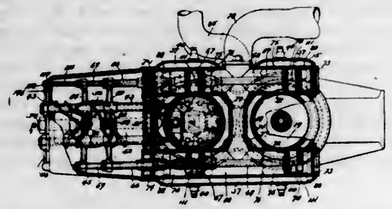
A pump of the class described comprising a cylinder having removable heads provided with apertures of different sizes, a motive fluid conduit connected with the smaller aperture and a pump fluid conduit with the larger, said last mentioned conduit having valve equipped inlet and outlet branch pipes, a stemless piston operable in said cylinder and normally in neutral position midway the ends of the cylinder, a coiled spring on either side of said piston bearing against the piston and the opposed cylinder head, said springs operating as shock absorbers for the piston and one of them as means for returning the piston to neutral position after actuation.

1,377,896. DRYING APPARATUS. HUGH B. LOWDEN, Denver, Colo. Original application filed Oct. 22, 1917, Serial No. 197,905. Divided and this application filed Jan. 7, 1920. Serial No. 349,988. 17 Claims. (Cl. 259—144.)



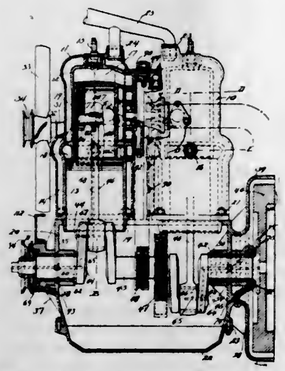
1. In combination a drying surface, means for feeding material thereto in a layer or stratum and means for cleaving it at a plurality of isolated points in a substantially vertical direction, pushing the cleaved portions lengthwise of the drying surface and again cleaving the material at points intermediate the previous cleavings.

1,377,897. INTERNAL-COMBUSTION ENGINE. CHARLES DE LUKACSEVICS, New York, N. Y. Filed May 22, 1919. Serial No. 298,837. 21 Claims. (Cl. 123—59.)



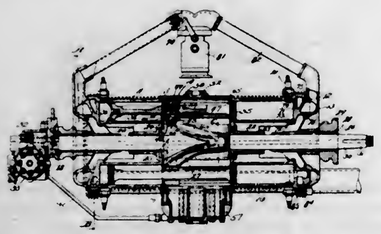
1. In an internal combustion engine, the combination with a plurality of double cylinders, each comprising inner and outer cylinder portions of different diameters disposed with their axes in a common plane, each of said cylinder portions having a plurality of combined inlet and exhaust ports, of a plurality of alined valves for controlling said ports respectively, the common axes of said valves being parallel to the plane of the axes of said cylinders, and a common means for reciprocating all of said valves transversely to the axes of the cylinders.

1,377,898. INTERNAL-COMBUSTION ENGINE. CHARLES DE LUKACSEVICS, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,915. 7 Claims. (Cl. 123—57.)



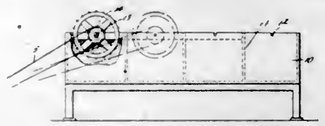
1. In an internal combustion engine, adjacent cylinder blocks each having concentric cylinders of different diameters, a stepped piston in said concentric cylinders and a single valve means interposed between said cylinder blocks and controlling all of said cylinders.

1,377,899. INTERNAL-COMBUSTION ENGINE. CHARLES DE LUKACSEVICS and EDMUND LOFFLER, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,986. 10 Claims. (Cl. 123—58.)



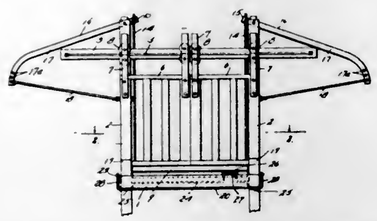
4. In an internal combustion engine having oppositely disposed cylinder blocks with opposing cylinders formed therein, an engine shaft having a cam groove, a crank case of relatively soft material, pistons adapted to reciprocate in said opposing cylinders, a connecting rod rigidly connecting said pistons, means mounted on said connecting rod and engaging said cam groove for imparting rotary motion to said engine shaft, and guide bars integral with said crank case having reinforcing rods embedded therein, said guide bars coacting with said means for relieving said pistons and connecting rod of side thrust.

1,377,900. TEXTILE-FINISHING DRUM. JOSEPH LUNEPP, South River, N. J. Filed Apr. 7, 1920. Serial No. 371,012. 3 Claims. (Cl. 8—19.)



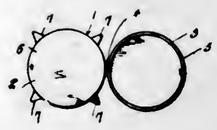
1. In a textile finishing drum, a shaft, a pair of alined annular supports, arms securing said supports to a shaft and spacing them therefrom, a plurality of radially disposed parallel slats connecting the supports, said slats having cutaway portions at each end forming projections on the slats located against the periphery of the annular supports, and said cutaway portions forming shoulders on the slats located against the inner faces of the supports, and all of said slats including tapering portions adjacent their outer edges.

1,377,901. GATE. DREWEY M. MCCAULEY, Algood, Tenn. Filed May 11, 1920. Serial No. 380,554. 2 Claims. (Cl. 39—18.)



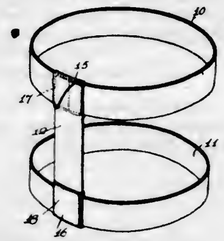
1. A gate of the character described, comprising a frame, a pair of platforms mounted in said frame, a pair of gates supported above said platforms, a crank shaft normally held for retaining and locking the platforms in elevated position, wheel operated triggers for operating the said crank shaft to release the platforms, and means whereby a depression of the platforms opens said gates.

1,377,902. LOCKET. JESSIE R. MCLAREN, Massena, Iowa. Filed Dec. 18, 1918. Serial No. 267,325. 1 Claim. (Cl. 63—19.)



A locket comprising front and rear circular sections, a hinge connecting said sections, a catch for detachably connecting the sections, means for securing a photograph in the rear section, triangular shaped tongues formed on the periphery of the front section and adapted to be bent to overlie the front face thereof for retaining an ornamental element thereon, and a loop formed on the outer face of the rear section to receive the belt worn by a person.

1,377,903. GARTER. RAYMOND A. MANNY and JOSEPH A. RIELLY, Brooklyn, N. Y. Filed Oct. 30, 1920. Serial No. 420,635. 2 Claims. (Cl. 241—5.)



1. As an article of manufacture, a garter comprising circular elastic bands of unbroken continuity disposed one above the other and of which the upper one is the attaching band to hold the garter in position on the wearer's leg and the other is the clamping band and is adapted to encircle the upper end of a sock and thereby clamp the same to the wearer's leg, each of the said circular bands being made of a piece of flat elastic webbing with the ends abutting, and an elastic connecting band having its ends overlying and attached to the circular bands at their joints to connect the said circular bands with each other and to hold the same spaced apart.

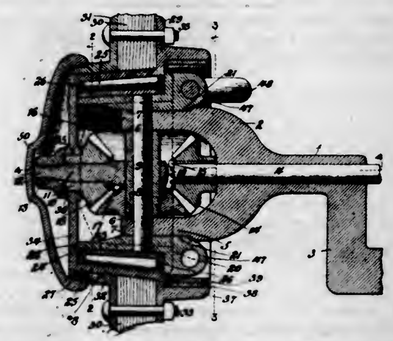
1,377,904. SIGN. HARRY H. MARRIOTT, Kansas City, Mo. Filed Feb. 16, 1920. Serial No. 359,066. 2 Claims. (Cl. 40—133.)



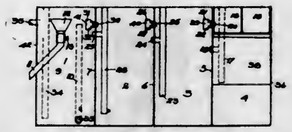
1. In a device of the class described, a panel comprising a front plate, a netting behind the front plate, and pieces of metal foil secured to the netting, the front plate having a sign-forming opening through which the foil is visible, the pieces of foil being disposed closely enough together so that the space within the opening will present the characteristic color of the foil in daylight, the pieces of foil being separated sufficiently to permit the passage of artificial light therebetween from the rear; and means for illuminating the panel from the rear.

1,377,905. COMBINED STEERING AND DRIVE WHEEL FOR AUTOMOBILES. RANDOLPH N. MARTZ, Frederick, Md. Filed June 23, 1916. Serial No. 105,465. 3 Claims. (Cl. 280—96.3.)

1. A combined driving and steering wheel comprising an axle with a forked end, a drive shaft traversing the axle, intermeshing gearing carried by the axle in the fork with one of the gears fast to the shaft, a ring carried by the fork exterior thereto and provided with a lateral outwardly directed extension, a king bolt traversing the ring and the legs of the fork, an axle stud having one end concentric with the king bolt and carrying one of the gears, antifriction bearings surrounding the ring and carried thereby, a hub sleeve mounted on the antifriction bearings and fast to the last named gear, and manipulating means connected to the ring for turning it about the longitudinal axis of the king bolt.

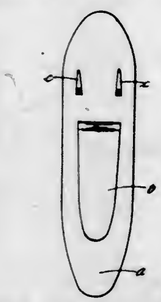


1,377,906. GREASE AND OIL SEPARATOR. FREDERICK WILLIAM MASON, Toronto, Ontario, Canada. Filed Aug. 30, 1918. Serial No. 252,125. 9 Claims. (Cl. 210—43.)



1. A grease and oil separator comprising a vessel divided by partitions into a plurality of chambers, water conducting means connecting each chamber with the one next to it, said water conducting means consisting of vertical pipes open at both ends, the upper ends of said pipes terminating substantially flush with top of said chambers and their lower ends extending some depth into their respective chambers, said pipes each having a substantially horizontal branch extending through the adjacent partitions into the adjoining chambers and oil pipes connecting each chamber with the one next to it, in combination with separate water and oil discharge pipes.

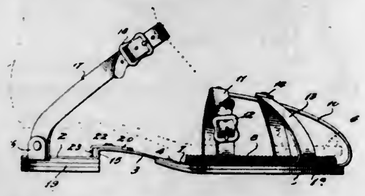
1,377,907. BOOK AND LIKE SUPPORT. WHITNEY MOCKRIDGE, London, England. Filed Jan. 20, 1921. Serial No. 438,714. 4 Claims. (Cl. 40—11.)



1. A book support comprising a single plate-like member having a spur struck therefrom to afford a clip capable of

engaging and forming a stiffening support for one book and a plurality of smaller upwardly extending spurs struck therefrom above said first mentioned spur and located side by side slightly spaced apart to afford holding means for another book.

1,377,908. DETACHABLE SOLE. JAMES W. MOORE, Norfolk, Va. Filed Apr. 15, 1920. Serial No. 374,120. 6 Claims. (Cl. 36—63.)



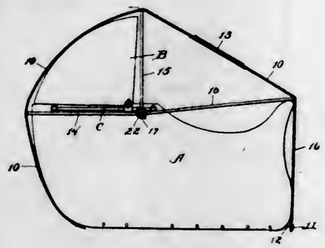
1. A shoe sole protector comprising a sole portion, a metallic heel portion, connected with the sole portion, a plurality of helical springs arranged upon the upper face of the sole portion to provide an air ventilating space between the sole portion of the protector and the sole of the shoe and means for attaching the protector to a shoe.

1,377,909. PORTABLE DIFFUSION APPARATUS. RENÉ MOULIN, Paris, France. Filed Jan. 7, 1921. Serial No. 435,676. 1 Claim. (Cl. 299—20.)



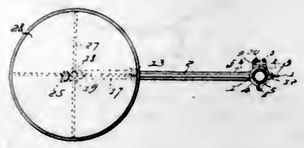
A portable diffusion apparatus, comprising an elongated casing provided with a cover having perforations in its top, a receptacle containing the liquid to be diffused fitting snugly in the casing and provided with an apertured stopper, a wick in the receptacle and extending through the aperture of the stopper thereof, and absorbent cotton in the casing and filling the space in the body of the casing above the end of the wick and with which the wick engages.

1,377,910. DETACHABLE RAINPROOF TOP FOR BABY-CARRIAGES. WILLIAM R. MUNSON, Sharon, Pa. Filed Jan. 12, 1920. Serial No. 350,733. 2 Claims. (Cl. 296—110.)



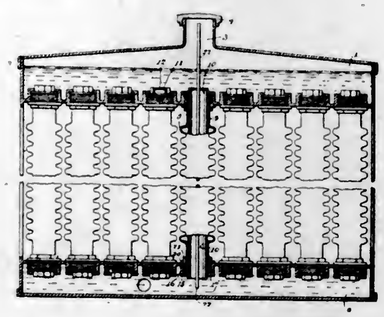
1. An attachment for baby carriage comprising a cover extending along the front, over the hood and along the back of the carriage, a plurality of U-shaped supporting rods connected with said cover at the back of the hood, above the front of the hood, and at the top of the front portion of the carriage, means carried by each side of the carriage for holding said rods stationary, and side curtains detachably engaged with the edges of said cover and extending along the sides of the carriage, the means for holding said rods comprising bolts clamped upon the hood guide rods of the carriage, a series of disks disposed upon each bolt, and one disk of each series being provided with a plurality of spaced radial ribs between which the meeting ends of said rods are disposed, and clamping nuts engaged upon said bolts and engaging the others of said disks.

1,377,911. ADJUSTABLE BED-TABLE. SAMUEL P. MURPHY, Canastota, N. Y. Filed Sept. 29, 1919. Serial No. 327,046. 1 Claim. (Cl. 45—82.)



A device for the purpose indicated comprising a normally stationary arm having a base portion at one end, a clamping element carried by said base portion and consisting of two complemental members one of which is formed integral with the base portion and the other of which is hingedly attached to the first, both members being formed with bosses opposite the hinge, a hook carried by one boss, a pin carried by the other boss and engaged by the hook, a thumb screw threadingly engaged with the hingedly mounted clamping member, and a table carried at the extremity of the arm.

1,377,912. RADIATOR. ALBERT NEBEL, Brooklyn, N. Y. Filed Oct. 6, 1919. Serial No. 328,745. 2 Claims. (Cl. 257—129.)

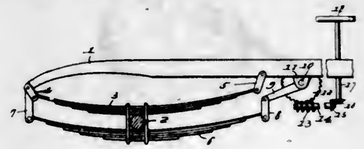


1. In a radiator comprising a plurality of reservoirs, and a tube connecting the same, a means for connecting one end of the tube to the reservoir, which consists in providing a threaded recess in the reservoir, a shoulder on one end of the tube, and a member adapted to be inserted in the recess, and to abut against the shoulder of the tube to hold the said tube and reservoir in fixed relation.

1,377,913. AUXILIARY SPRING. PAUL R. NAVE, Bucyrus, Ohio. Filed July 25, 1919. Serial No. 313,234. 2 Claims. (Cl. 267—45.)

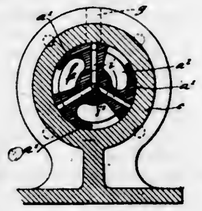
2. In a vehicle spring suspension, the combination with a chassis frame and main spring to bear the minimum load

thereof, of an auxiliary spring shackled at one end to the chassis frame, a transverse rock shaft mounted on the chassis frame, an arm carried by the rock shaft and shackled to the remaining end of the auxiliary spring, a worm gear mounted on the rock shaft, a horizontally disposed shaft arranged longitudinally of the frame, a



worm carried by said horizontal shaft and meshing with the worm gear, a vertically disposed shaft carried by the frame and provided at the upper end with a hand wheel, and a bevel gear couple operatively connecting the vertically disposed and horizontally disposed shafts for imparting angular movement to the rock shaft to vary the position of the said arm for the purpose specified.

1,377,914. PUMPING OF VISCOUS SUBSTANCES. HENRY THORNTON NEWBIGIN, Newcastle-upon-Tyne, England. Filed Aug. 11, 1919. Serial No. 316,849. 7 Claims. (Cl. 103—44.)



1. A method of pumping viscous fluids which consists in employing the mutual reaction of parts of relatively moving, closely adjacent surfaces, slightly inclined to each other against the direction of motion, between which wedge-shaped pressure films are formed by the adhesion to and constriction of the fluid between these surfaces, thereby increasing the pressure in the fluid from a minimum around the edges of the moving surface to a maximum at a point in the direction of motion behind the center of the area of the said moving surface and drawing off the fluid from such point of maximum pressure, substantially as described.

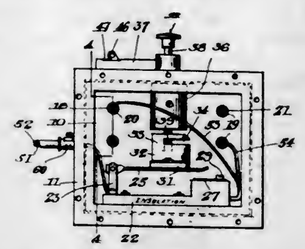
2. A method of pumping viscous fluids which consists in employing the mutual reaction of pairs of relatively moving, closely adjacent surfaces, slightly inclined to each other against the direction of motion between which wedge-shaped pressure films are formed by the adhesion to and constriction of the fluid between the said pairs of surfaces, thereby increasing the pressure in the fluid from a minimum around the edges of the moving surfaces to a maximum at points in the direction of motion behind the center of the area of the said moving surfaces, drawing off the fluid from such points of maximum pressure, and making the pressure at the point of maximum pressure in one of said pairs of relatively moving surfaces constitute the minimum pressure in an adjacent pair of such surfaces, thereby building up a high pressure in stages in the unit.

3. In the method of pumping viscous fluids at high pressure stated in claim 2, arranging different units to work in opposition to one another, as and for the purpose described.

4. Apparatus for pumping viscous fluid consisting of a ported body member formed with an internal cylindrical chamber communicating through a port in the body member with a source of viscous fluid supply, a bored outlet piece attached to said member and a rotor revolubly mounted in the chamber, said rotor comprising a shaft and a fluid impelling member carried by the shaft, said impelling member having a peripherally disposed surface arranged closely adjacent to and at a slight angle to the inner surface of the cylindrical chamber against the direction of motion, and a delivery duct, extending from a point on the peripheral surface toward and communicating with the bore of the said outlet piece.

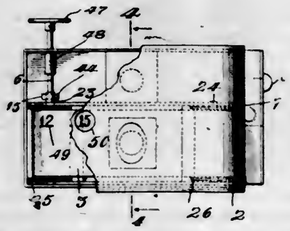
5. Apparatus for pumping viscous fluid consisting of a ported body member formed with an internal cylindrical chamber of tapering bore and communicating through a port in the body member with a source of viscous fluid supply, a bored outlet piece attached to said member and a rotor revolubly mounted in the chamber, said rotor comprising a shaft and a fluid impelling member carried by the shaft, said impelling member having a peripherally disposed surface arranged closely adjacent to and at a slight angle to the inner surface of the cylindrical chamber against the direction of motion, and a delivery duct, extending from a point on the peripheral surface toward and communicating with the bore of the said outlet piece, and means for regulating the position of the rotor longitudinally within the said chamber, as and for the purpose described.

1,377,915. SAFETY SHOT-FIRER. CHARLES FUKUZO OAKA, Lovettville, Alberta, Canada. Filed Apr. 29, 1920. Serial No. 377,632. 2 Claims. (Cl. 175—91.)



1. A shot firer comprising a casing, a pair of posts in the casing, a pair of contacts spaced from the posts, arms pivotally mounted to the posts and designed to bridge the gap between the posts and the contacts, an insulating member connecting the arms, a bracket on the insulating member, a plunger coacting with the bracket, the plunger being manually actuated in one direction, and resilient means for automatically actuating the plunger in the opposite direction.

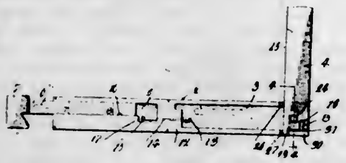
1,377,916. CAMERA. MARIA OCHOA, New York, N. Y. Filed Aug. 6, 1919. Serial No. 315,694. 4 Claims. (Cl. 95—31.)



1. In a camera of the character described, a frame, means for holding a film in the frame, a glass for receiving an image, a single lens coacting with said glass and with the film, a rectangular guide for the lens, said guide being formed with a slot, a lever mechanism having a part

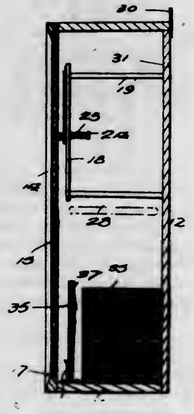
extending through said slot and engaging the lens for shifting the same from in front of said glass to in front of the film, and back again to its original position, and a shutter operated after said lens has reached the exposure position in front of said film.

1,377,917. COLLAPSIBLE SQUARE. AUGUST E. ODMARK, Muskegon, Mich. Filed July 16, 1918. Serial No. 245,210. 6 Claims. (Cl. 33—114.)



1. In a geometrical instrument, the combination with a shank containing a recess, and a spring fixed in one end wall of the recess and projecting into it, the tip of the spring being deflected; of an element movably mounted within said recess and having a notch adapted for engagement with said spring and the notch provided with an enlargement adapted to receive the deflected end of the spring when the element is housed within the recess.

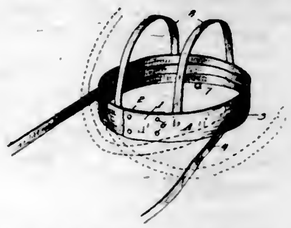
1,377,918. NOTICE-INDICATOR AND MESSAGE-RECEIVER. MICHAEL W. OTTO, Supply, Okla. Filed Aug. 21, 1918. Serial No. 250,898. 1 Claim. (Cl. 40—63.)



A device of the class described comprising a housing, a closure therefor having a transparent panel therein, a stacked card compartment in said housing opposite said closure, upright card supports in the housing adjacent said closure and between it and said stacked card compartment, said supports being positioned to perform the double function of a card support to hold the card for reading through said panel and to retain the stacked cards against displacement.

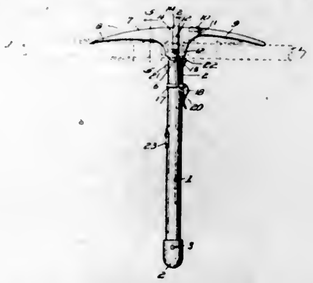
1,377,919. BABY-HARNESS. ELEANOR DANA PARSON, Pinehurst, N. C. Filed Feb. 19, 1920. Serial No. 359,797. 2 Claims. (Cl. 155—189.)

1. A harness for children comprising a body encircling belt having an elongated strap threaded therethrough to slide longitudinally intermediate its extremities in said belt for supporting or attaching a child to a chair or the like, the intermediate portion of the strap lying on the inner face of the intermediate portion of the belt with its ends outside the belt, said strap being of a length materially greater than the length of the belt to adapt the



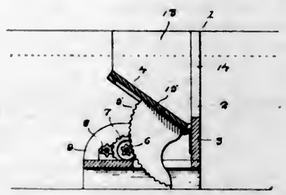
ends thereof to be crossed over the closed ends of the belt and secured to a suitable support, and shoulder straps attached to said belt.

1,377,920. COMBINATION-TOOL. JAMES WOOD PEARSON, near Elk Grove, Calif. Filed Oct. 27, 1920. Serial No. 419,872. 4 Claims. (Cl. 306—40.)



1. In a combination tool of the class described, a double ended implement blade, attaching ears formed with said blade, a handle pivoted to said attaching ears, a strap embracing said attaching ears and means connecting the said strap and locking the same to the handle.

1,377,921. ANTIFREEZE HEAD-GATE. NIELS PETERSON, St. Anthony, Idaho. Filed Aug. 5, 1919. Serial No. 315,475. 1 Claim. (Cl. 61—26.)

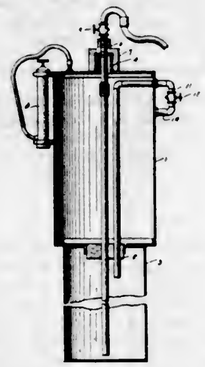


A head gate of the class described comprising a gate hinged at its lower end to a part of the dam, means for raising and lowering the gate and side wings hinged to a part of the dam and having their lower edges beveled to engage the gate when partly raised.

1,377,922. AIR-STORAGE-TANK LIQUID-DISPENSING DEVICE. EMIT M. POSA, Burleson, Tex. Filed Aug. 18, 1920. Serial No. 404,316. 2 Claims. (Cl. 221—74.)

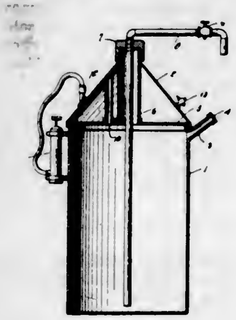
1. A liquid dispenser comprising a body provided at one end with a boss and at its opposite end with a nipple, a pipe passing through the nipple and boss and traversing

the length of the body and provided at a point above the nipple with a valve, a collar surrounding the pipe and having screw threaded engagement with the nipple and adapted to hold the pipe at an adjusted position in the body, means for supplying air under pressure to the body, and an air pipe connected at one end with the body at a



point betwen the ends thereof and having a portion bowed outwardly beyond the side of the body and forming a handle, a valve provided upon the handle portion of the last mentioned pipe, the said pipe being extended back into the body and carried down through the boss and out below the lower end of the body.

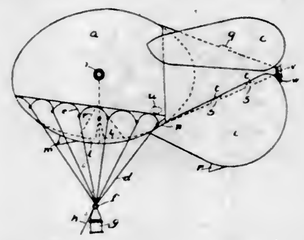
1,377,923. COMPRESSED-AIR-FEED LIQUID-CONTAINER. EMIT M. POSA, Burleson, Tex. Filed Aug. 18, 1920. Serial No. 404,317. 2 Claims. (Cl. 221—74.)



1. A compressed air feed liquid container comprising a body, a dome mounted thereon, a partition separating the dome from the body, means for forcing air under the dome and above the partition, a tube passing through the partition and the dome, a pipe passing through the tube and entering the body, a valve mounted upon the pipe, a cap carried by the pipe and adapted to close the tube and an air pipe passing through the partition and entering the space under the dome and having its end spaced from the top of the dome.

1,377,924. OBSERVATION KITE-BALLOON. EUGENIO PRASSONE and LUIGI AVORIO, Rome, Italy. Filed Aug. 12, 1918. Serial No. 249,454. 7 Claims. (Cl. 244—4.)

1. An observation kite-balloon consisting of a gas container or bag of moderately elongated shape connected with a conical or pointed appendage with stabilizing or



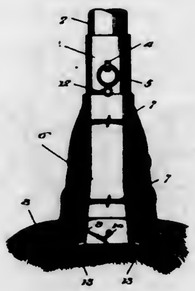
rudder bags, the conical or pointed appendage and the stabilizing or rudder bags being filled with air.

1,377,925. METHOD OF ATTACHING LIPS TO DREDGE-BUCKETS. JOHN J. RATTIGAN, Homestead, Pa. Filed May 24, 1919. Serial No. 299,442. 4 Claims. (Cl. 29—148.2.)



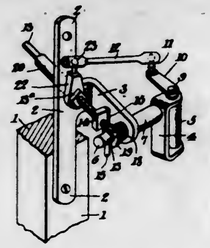
1. A method of attaching lips to dredge-buckets which consists in first removing the worn lip portion of said buckets and piercing holes in the edge of the bucket adjacent to the line of severance, reaming said holes while the material is in a heated condition, and then riveting a new lip portion on said bucket.

1,377,926. BROOM. AMBROSE S. RAY, Bellefonte, Pa., assignor of one-half to George T. Ray, Mill Hall, Pa. Filed Nov. 6, 1919. Serial No. 336,038. 1 Claim. (Cl. 15—19.)



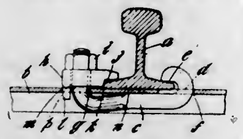
A broom stock of tubular form to receive a handle having its lower end portion gradually increased in diameter and merging into elliptical form at the lower extremity of the stock and having pointed lugs bent outwardly at an angle therefrom at the ends of the major diameter of said extremity and located in the plane of said extremity to project under the shoulders of a flat broom head so as to spread the broom corn, and a binding wire anchored at one end to the lower end portion of said stock to bind the broom corn on the stock above said lugs so as to bend the broom corn into the angles between said stock and lugs.

1,377,927. SPOTLIGHT-HANGER. HERBERT H. REED, Covington, Ohio. Filed Dec. 15, 1920. Serial No. 430,814. 3 Claims. (Cl. 240—7.)



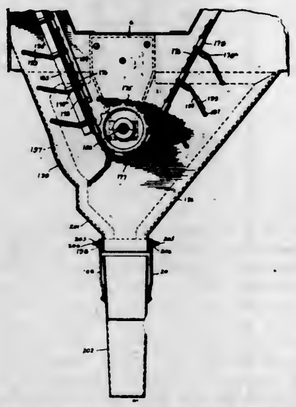
1. In a device of the type described, a light-fixture member, a yoke for mounting said light-fixture member, a stem projecting from said yoke, said stem and light-fixture member being turnable in planes perpendicular to each other, a sleeved hand-operated shaft, a block-head member having a screw-threaded connection with said shaft, a lever-connection between said block-head and said stem for actuating the light-fixture member, and means for actuating said light fixture member from the sleeve of the hand-operated shaft.

1,377,928. MEANS FOR SECURING RAILWAY-RAILS TO SLEEPERS. MORGAN EDWARD REES, Morriston, near Swansea, Wales. Filed Dec. 1, 1920. Serial No. 427,555. 7 Claims. (Cl. 238—348.)



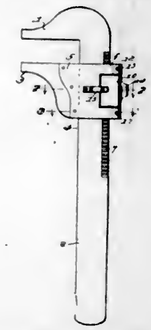
1. A bolt for securing railway rails to sleepers, comprising a shank adapted to be arranged beneath the sleeper transversely to the rail and bent so as to provide an upwardly directed elbow to bear against the underside of the sleeper, and having end portions adapted to project through the sleeper on opposite sides of the rail and provided with means for clamping the rail flange to the sleeper.

1,377,929. CANE-PLANTING MACHINE. HENRY M. REMY, Constancia, Cuba. Filed Feb. 28, 1919. Serial No. 279,709. 11 Claims. (Cl. 193—2.)



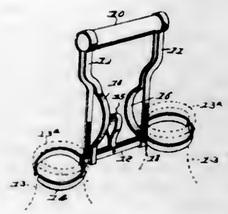
1. In a cane planting machine, a supporting frame, a cane conveyer casing extended transversely of the frame and of triangular form which apex is directed downwardly, an endless conveyer within said casing, said casing having an open upper side and an open lower side, said endless conveyer comprising a pair of chains, sprocket wheels for said chains, transverse members connecting said chains at spaced intervals, angularly extended bars carried by said transverse members, a pocket member carried by each of said transverse members to form a pocket wall for a pocket carrying a section of cane to be dropped from the lower end of the casing, and a guiding discharge member extended from the lower end of said casing.

1,377,930. WRENCH. WILLIAM H. ROACH, Lindsay, Calif., assignor of one-half to L. G. Stallings and J. M. Hadley, Lindsay, Calif. Filed Feb. 4, 1919. Serial No. 274,962. 1 Claim. (Cl. 81—137.)



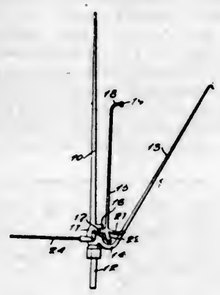
A wrench comprising a stationary jaw formed with a handle, a portion of whose edge above the grip is beveled having a flat longitudinal portion adjacent one side and a similar portion adjacent the other side, the beveled edge being formed with transversely disposed teeth thereon, a movable jaw slidably mounted on the handle, plates straddling the handle and connected with the movable jaw and formed with web portions facing the said beveled edge, the said web portions being shaped to effect sliding engagement with both said flat portions, a block formed with a beveled edge and provided with teeth for engagement with the teeth of the handle, a pin set in the webs and loosely supporting the block which is disposed between the said webs, and a flat spring mounted on one of the said plates and having a free end bearing upon the block to yieldingly keep the teeth of the latter in engagement with the teeth of the handle for the purpose specified.

1,377,931. MILK-BOTTLE CARRIER. CHARLES B. SAMUELS, Tulsa, Okla. Filed Sept. 9, 1920. Serial No. 409,089. 5 Claims. (Cl. 224—48.)



1. A milk bottle carrier having a handle or grip provided with looped hangers, and separable jaw members slidingly mounted in said hangers and provided with bottle engaging elements, said hangers being provided at their lower ends with means for holding said jaw members in their bottle engaging relation.

1,377,932. MAIL-BAG CATCHER. ANTON W. SCHMUTZER, Crandon, Wis. Filed Mar. 13, 1920. Serial No. 365,016. 2 Claims. (Cl. 258—22.)



1. In a device of the character described, the combination with a mail bag catcher of an arm having an extension formed at one end, means pivotally connecting said extension with said mail bag catcher, an actuating finger projecting from said arm in proximity to and in the opposite direction from said extension, said finger adapted to be engaged by the mail bag to rock said arm to retain said mail bag against displacement, a handle pivoted upon said mail bag catcher, a lug on said arm, and means connecting said handle and said lug whereby said handle may be operated to return said arm to its normal position, substantially as described.

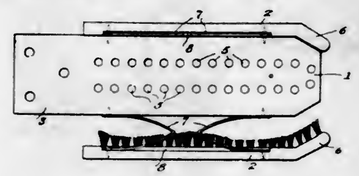
1,377,933. PLUMBER'S FERRET. CHARLES WILLIAM SHEATSLEY, Pensacola, Fla. Filed Apr. 13, 1920. Serial No. 373,592. 3 Claims. (Cl. 137—70.)



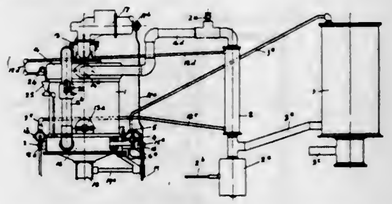
3. A device of the character stated comprising a flexible handle, a pair of crossed movable jaws pivoted on one end of said handle, lateral angularly disposed projections on said jaws having longitudinal slots therein, a flexible tongue slidable on said handle, and a pin on said tongue projecting through both of said slots and controlling the position of the jaws.

1,377,934. SHOE-CLEANER. ELMER WRIGHT SILAS, Maitland, Fla. Filed June 12, 1920. Serial No. 388,582. 1 Claim. (Cl. 15—2.)

A shoe cleaner of the class described comprising a bottom brush having openings between the rows of bristles and an extension at its rear having openings therein adapted to receive screws for securing the extension to a support, the front end of the bottom brush having tapered corners, a pair of side brushes having their front ends converging to engage the tapered corners, the lower parts of said side brushes being recessed and V-shaped springs each having one end secured to the bottom brush and its other end secured in the recess, said springs holding the side brushes against the bottom brush with the springs occupying the recesses.

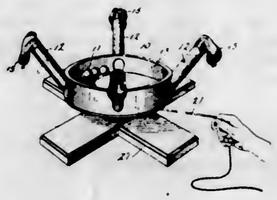


1,377,935. GAS-PRODUCER. DAVID J. SMITH, London, England. Filed Nov. 29, 1918. Serial No. 264,714. 6 Claims. (Cl. 48—76.)



1. The herein described method which consists in forming a fire bed relatively shallow in proportion to area, constantly agitating the same throughout, feeding fuel thereto in small regular quantities during operation, whereby the fuel rapidly becomes incandescent on reaching the fire bed, and in maintaining an even high temperature throughout the fuel bed so that the gas given off is clean and of even quantity and slow distillation is avoided.

1,377,936. GAME APPARATUS. MAURICE M. SMITH, New York, N. Y. Filed Mar. 15, 1920. Serial No. 365,742. 3 Claims. (Cl. 46—57.)

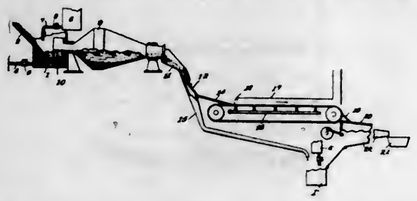


1. A game apparatus, comprising a rotatable member having a rim and adapted to contain balls, passages extending from the said rim and having their lower ends in communication with the said member, and receiving pockets at the upper ends of the said passages for receiving the balls passing up the passages by centrifugal force on rotating the said member.

1,377,937. FLOTATION PROCESS. CHARLES SPEARMAN, Westmount, Quebec, Canada. Filed July 22, 1918. Serial No. 246,126. 6 Claims. (Cl. 83—85.)

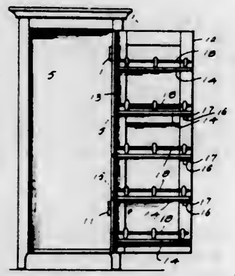
1. A process of concentrating ore which consists in grinding the ore with an aqueous solution containing a small percentage of oil, and agitating the material to sepa-

rate the desired values from the gangue and permit particles of the values to coalesce and float on the surface



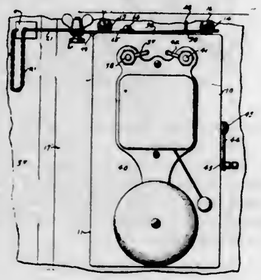
of the solution, and then destroying the adhesion of the coalesced particles and screening the values to separate the larger flakes from the powdered particles.

1,377,938. CABINET. CHARLES A. STROMBERG, Port Townsend, Wash. Filed June 23, 1920. Serial No. 391,088. 2 Claims. (Cl. 211—9.)



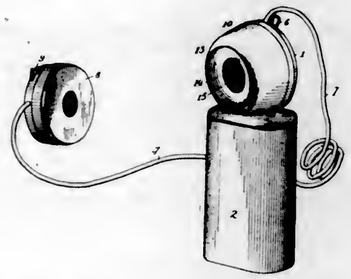
1. The combination with a pair of supports extending at right angles to each other, of a plurality of shelves supported one above the other between the supports, outstanding pins extending from one edge of each of the shelves and removably engaged with one support, a downwardly extending lug carried by each of the shelves at its forward edge, and a plurality of U-shaped yokes carried by the other support, one for each of the lugs.

1,377,939. PORTABLE BURGLAR-ALARM. SAMUEL SUNDEL, New Haven, Conn., assignor of one-half to Louis M. Rudman, New Haven, Conn., and one-half to Maurice Strachansky, East Haven, Conn. Filed Oct. 2, 1919. Serial No. 327,857. 4 Claims. (Cl. 177—314.)



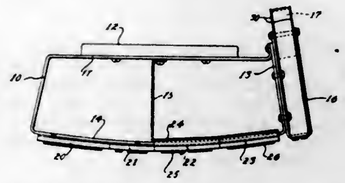
1. A portable burglar alarm, comprising a casing adapted to be secured to a door or window, a battery in the casing, a bell on the casing, an electric circuit for the bell, a manually controlled switch for the electric circuit, a contact in the circuit and mounted in the said casing, a spring pressed contact lever fulcrumed within the casing and adapted to engage the said contact to close the circuit, the said contact lever having one end extending to the outside of the casing, a reversible restraining bar adapted to engage the outer end of the lever to hold the latter out of engagement with the said contact, the said bar having an arm at one end adapted to abut against the door or window frame either to the right or left of the casing, and means mounted on the said casing and engaging the said restraining bar to hold the latter in working position and to allow of reversing the restraining bar and its arm, and a block of insulating material adapted to be interposed between the door or window frame and the said arm.

1,377,940. SOUND-CONCENTRATOR FOR TELEPHONE-TRANSMITTERS. ELMER EVERT TAYLOR, Loogootee, Ind. Filed Sept. 23, 1919. Serial No. 325,709. 3 Claims. (Cl. 179—107.)



2. A sound concentrator for telephone instruments, comprising a cap for the mouth-piece end of the transmitter having a central sound transmitting opening over and approximately of the same size as that of the transmitter to snugly embrace the transmitter casing with the depth of the cap such as to space the sound receiving face of the cap away from the transmitter by about approximately half the full depth of the cap and said cap having an interior cylindrical wall surrounding the transmitter mouth-piece with the outer end of the cap provided with frusto conical inner walls meeting intermediately between the cylindrical wall and there merging, whereby the inner walls of the cap constitute reflecting surfaces for sound waves directing said waves toward and concentrating them onto the central portion of the receiver diaphragm.

1,377,941. BOX-MARKER. SAMUEL J. THOMAS, East Wenatchee, Wash. Filed Nov. 29, 1920. Serial No. 427,031. 2 Claims. (Cl. 101—109.)



1. A stamping device comprising a frame provided with a handle, a plurality of printing members rigidly secured upon the opposite side of the frame from the handle, and a plurality of printing members detachably connected with the frame and each including a channel-shaped body of resilient material having side flanges adapted to snap over and engage upon the edges of said side of the frame, printing members carried by each of said channel-shaped members, and a handle on each channel-shaped member whereby the flanges thereof may be sprung.

1,377,942. COMBINATION RAILWAY-TIE AND RAIL-FASTENER. ANDREW N. TAUMPOWER, Sr., Hagerstown, Md. Filed Apr. 26, 1920. Serial No. 376,651. 1 Claim. (Cl. 238—66.)



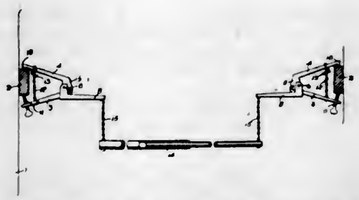
A railway tie of the character described comprising a body formed with a vertical web and horizontal top and bottom tapering portions extending therefrom, vertical reinforcing ribs permanently secured on opposite sides of the web and extending between the top and bottom tapering portions, the said top portion being formed with a rectangular groove therein directly above the central web and at the points of engagement of the rails with the tie, slidable rail fastening means coöperating with the said groove and secured to the top portion of the tie, the said rectangular groove having downward angular drainage passages communicating therewith extending on opposite sides of the vertical reinforcing ribs.

1,377,943. HAIR-WAVING DEVICE. SOTER B. TUSIS, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,147. 1 Claim. (Cl. 132—33.)



As a new article of manufacture, a hair waving device formed of a flat piece of metal cut inwardly from one edge toward its longitudinal center to form tongues, said tongues bent at right angles to the strip and the alternate tongues extending in the same direction from the strip and in the direction opposite to the tongues next thereto.

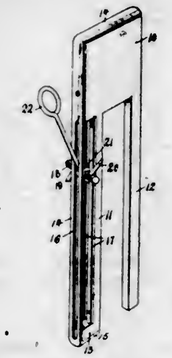
1,377,944. CLOTHES-HANGER. ROY G. TYLER, West Everett, Mass. Filed Feb. 8, 1921. Serial No. 443,400. 5 Claims. (Cl. 45—13.)



1. The combination with a suitable support, of an attaching means for a garment hanger, said means comprising a pair of jaws pivoted together at one end, a spur carried by the free end of one jaw and engageable with one side of the support, a screw movable through the free end of the other jaw and engageable with the other side of the support, an adjustable flexible device connecting the jaws and limiting the separation of the jaws caused by turning the screw when said screw is located against the support.

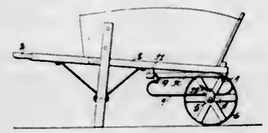
1,377,945. WEATHER-BOARD GAGE. EDWIN ULVEN, Soldier, Iowa. Filed Jan. 24, 1920. Serial No. 353,737. 4 Claims. (Cl. 33—33.)

1. An implement of the class described comprising an elongated body having guideways directed longitudinally thereof, a holding member extending through one of said guideways and having a guide collar extending into the



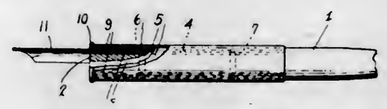
other guideway, and a scoring pin carried by the member and extending externally of one of the guideways.

1,377,946. WHEELBARROW. WILLIAM V. VAN ETTEN, Langley Prairie, British Columbia, Canada. Filed Oct. 20, 1920. Serial No. 418,251. 4 Claims. (Cl. 280—52.)



3. A means for supporting the frame of a wheelbarrow on the axle of its wheel, said means comprising a bearing for each end of the axle, a spring on which each bearing is endwise movable, one end of each spring secured to the under frame of the barrow adjacent the front end and the other end link-connected to the frame toward the other end that the springs are parallel to one another, and means for securing the bearings of the wheel at any desired position of endwise adjustment on the springs.

1,377,947. PENHOLDER. WYNAND VAN KORLAAR, Grand Rapids, Mich. Filed June 5, 1920. Serial No. 386,699. 1 Claim. (Cl. 120—101.)

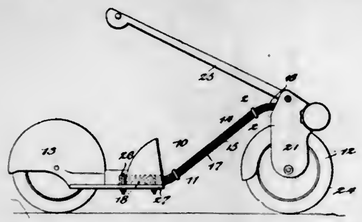


A pen holder comprising a stock, a cap carried thereby, a projection on the cap, a sleeve slidably mounted on the cap and provided with inwardly extending beads, the bead at the inner end of the sleeve being interrupted to form a space through which the projection may pass, the bead with said projection forming a stop for limiting the outward sliding movement of the sleece and the second bead forming a stop for the pen point.

1,377,948. RUNNING-GEAR. GEORGE W. WACKER, Rutherford, N. J. Filed Aug. 20, 1920. Serial No. 404,768. 2 Claims. (Cl. 180—31.)

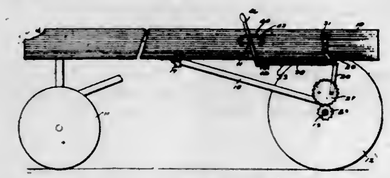
2. In an auto-ped, a front road-wheel mounting including bearings, a composite reach having different rela-

tively disposed portions, a rear road-wheel mounting, the said reach being disposed between the said mountings, stub shafts embodied by the reach which are journaled in



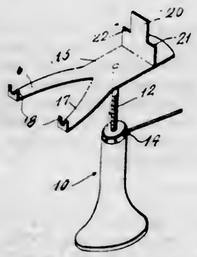
the brasses of said bearings to provide a steering connection between the front end of the reach and the front mounting.

1,377,949. WAGON. FRED H. WARD, Washington, D. C. Filed Oct. 20, 1920. Serial No. 418,202. 4 Claims. (Cl. 280—31.)



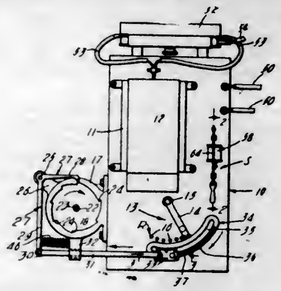
1. A wagon comprising a wagon body, running gear including a truck, a rotatable axle journaled on said truck, wheels on said axle, reach rods secured to the truck and pivotally secured to said wagon body, and a shouldered standard limiting the movement of said wagon body toward said truck, means for imparting a rolling motion to said wagon body including drive pinions fixed to the axle, a shaft rotatably journaled on the truck and having a crank at its ends, gears eccentrically fixed to the cranks and meshed with the drive pinions, drive rods eccentrically pivoted to the gears at the rear and, links pivotally connected to said drive rods at the rear end and to the wagon body at their opposite end, a swinging lever pivoted to the wagon body and connecting rods between the swinging lever and the links, and controlling means adapted to render the means for imparting the rolling motion to the wagon body active and inactive and consisting of a lever pivoted intermediate its ends to the wagon body and pivotally connected to one of the connecting rods, and a rack having ratchet teeth engageable with the operating lever for retaining the operating lever in adjusted position.

1,377,950. LIFTING-JACK. CHESTER A. WATSON, Ballinger, Tex. Filed Sept. 25, 1920. Serial No. 412,662. 5 Claims. (Cl. 254—100.)



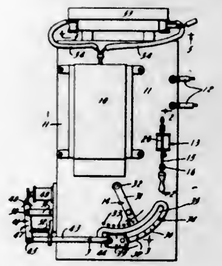
1. In a lifting jack, a stationary element, a movable element coöperating therewith, a transverse member, an upwardly extending lug thereon, and a device for engaging said lug and an axle of a vehicle, for preventing relative angular movement therebetween.

1,377,951. ELECTRIC-FURNACE CONTROL. ALFRED L. WILKES, Los Angeles, Calif. Filed June 17, 1919. Serial No. 304,854. 10 Claims. (Cl. 204—64.)



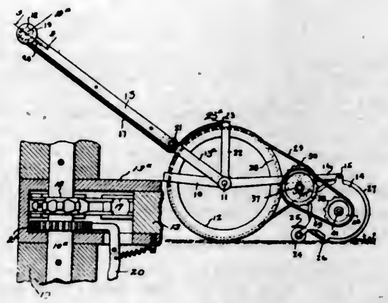
1. In combination with an electric oven, means for varying the temperature of said oven, time regulated means for actuating said varying means, and means for automatically disconnecting said oven upon reaching a predetermined temperature.

1,377,952. HEAT CONTROL FOR ELECTRIC FURNACES. ALFRED L. WILKES, Los Angeles, Calif. Filed Aug. 2, 1919. Serial No. 314,858. 11 Claims. (Cl. 219—35.)



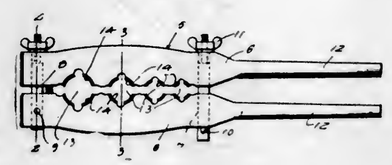
1. In combination with an oven or the like, means for heating the oven to varying temperatures, and means for automatically finally discontinuing the heating of said oven upon its reaching a predetermined final temperature.

1,377,953. LAWN-MOWER. GALEN WOOD, Seattle, Wash. Filed Apr. 23, 1919. Serial No. 292,019. 11 Claims. (Cl. 56—252.)



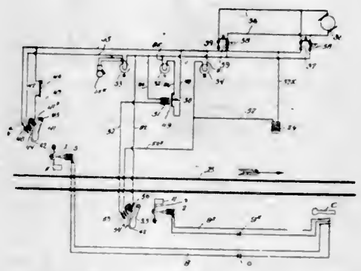
1. A lawn mower including a wheeled main frame, a cutter-carrying frame suspended on the main frame to have movement relatively thereto for following the contour of the ground, said main frame being tiltable and said cutter frame being adapted to be raised or lowered by the tilting of the main frame.

1,377,954. ADJUSTABLE FLAT DIE. JOHN G. WRIGHT, Tyler, Tex. Filed Sept. 18, 1918. Serial No. 254,627. 1 Claim. (Cl. 10—116.)



A die, a pair of coacting jaws, thread cutting elements carried by the opposed faces of the jaws, a handle extending from one end of each jaw, said handles extending in the same direction, bolts passing through the jaws adjacent the ends thereof, a pin extending transversely of the bolt and one of the jaws, a pin carried by one end of the remaining bolts, bearing against the outer edge of the jaw and serving to limit the movement of said jaw away from the opposite jaw and permitting movement toward said opposite jaw.

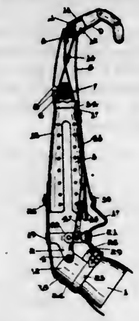
1,377,955. AUTOMATIC TRAIN-STOP. ELLIS EDWARD ADAMS and EDWARD CLAUDIUS BENNETT, Roanoke, Va. Filed July 21, 1919. Serial No. 312,179. 5 Claims. (Cl. 246—185.)



1. An automatic train stop system comprising semaphore controlled track, obstacles, train carried signal circuits to be closed by said obstacles another signal circuit controlled by one of the first mentioned circuits, and manually operated switches for opening all of said first mentioned circuits, and a recorder operated in opening each of said switches.

1,377,956. ARTIFICIAL HAND. DUNCAN MACKENZIE ANDERSON, Toronto, Ontario, Canada. Filed July 14, 1920. Serial No. 396,045. 7 Claims. (Cl. 3—12.)

1. The combination of an upper arm sheath; a fore-arm bucket; a hand connected to the end of said bucket and provided with jointed fingers; finger-flexing and finger-extending cables suitably guided in the fingers; a finger-flexing strap connected to the finger-flexing cables, extending along the back of the forearm bucket and connected to the upper arm sheath; and a finger-extending strap connected to the finger-flaxing cables, extending along

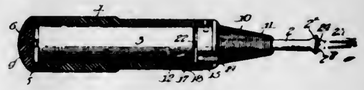


the front of the fore-arm bucket and connected to the upper arm sheath.

1,377,957. ANTISLIPPING VITRIFIED TILE. MILTON F. BEECHER, Worcester, Mass., assignor to Norton Company, a Corporation of Massachusetts. Filed Apr. 29, 1918. Serial No. 231,546. 12 Claims. (Cl. 106—7.5.)

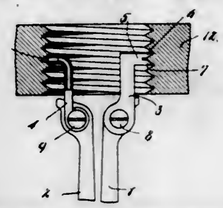
1. A ceramic article for a safety tread, comprising a body having a rough tread surface of durable, wear-resisting, vitrified non-glassy clay material and anti-slipping granular material of a hardness of 9 or more intimately incorporated therein and forming a considerable portion of the surface to prevent a pedestrian slipping thereon.

1,377,958. SCREWDRIVER OR THE LIKE. CARLOS S. ANDREWS, Chicago, Ill. Filed Aug. 28, 1916. Serial No. 117,207. 5 Claims. (Cl. 145—50.)



1. A screw driver having a shank provided with a magnetizing coil and a hollow handle containing a battery for energizing said coil.

1,377,959. THREAD-MEASURING APPARATUS. AXEL E. BJORKMAN, Cliftondale, Saugus, Mass. Filed Nov. 10, 1919. Serial No. 336,908. 1 Claim. (Cl. 33—199.)

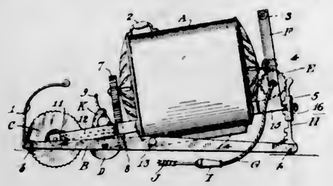


Thread measuring apparatus of the kind described, having a pair of legs, a thread measuring member secured to each leg and projecting at an angle thereto, said members having right-angled thread contacting portions extending a substantially greater distance than the height or depth of the threads to be measured, a V-shaped end on one thread measuring member and a rounded portion on the end of the other thread measuring member in alinement with the bottom of the V-shaped end of the other member, said members being so proportioned as to contact with the approximate pitch diameter of the thread to be measured.

1,377,960. ANTISLIPPING TILE. HERBERT K. DODGE, Palisades, N. J., assignor to Norton Company, a Corporation of Massachusetts. Filed Apr. 29, 1918. Serial No. 231,417. 12 Claims. (Cl. 106—7.5.)

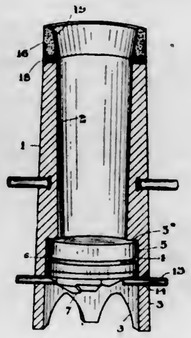
1. An anti-slipping tread block comprising anti-slipping particles of a hardness of 9 or more and a ceramic vitrified bonding material holding said particles together in a unitary wear resisting structure, said particles constituting a major portion of the block and receiving substantially all of the traffic wear.

1,377,961. SAWING AND BORING DEVICE. GLENN H. DRABENSTOTT, Wooster, Ohio. Filed Sept. 23, 1920. Serial No. 412,328. 2 Claims. (Cl. 144—35.)



1. In a device of the character described, in combination, a slidable base, a motor mounted to swing endwise on said base, a circular saw attached to said motor, and driven by mechanism intermediate the same, and a guiding disk mounted to travel in the path of said saw, substantially as set forth.

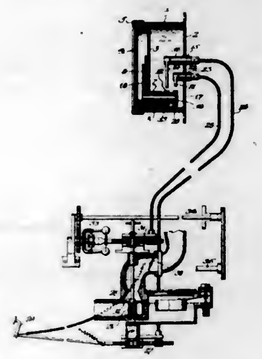
1,377,962. INGOT-MOLD. ORVILLE ALDEN FOGARTY, Rigaud, Quebec, Canada. Filed Sept. 17, 1920. Serial No. 410,983. 3 Claims. (Cl. 22—139.)



1. In an ingot mold, a casing having an annular recess at the lower end forming a bottom seat, a bottom fitting to said seat and a keeper plate stepped for various thicknesses of the bottom and held by pins.

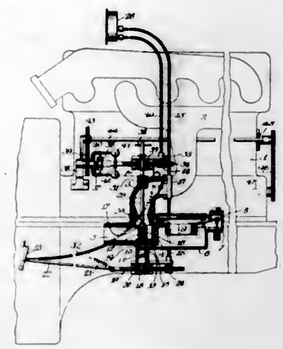
1,377,963. FUEL-ECONOMIZING DEVICE. GEZA HORVATH, Highland Park, Mich. Filed Dec. 15, 1919. Serial No. 345,012. 3 Claims. (Cl. 116—129.)

1. Means for determining the speed of an engine having a carbureter and the nature of the fuel mixture supplied to the engine by the carbureter, comprising an indicator having a fixed dial provided with indicia, a combined dial and pointer movable relative to said fixed dial, a pointer movable relative to said combined dial and pointer, and



means for separately moving said pointers, said means including concentric shafts and racks and pinions for imparting movement to said shafts.

1,377,964. SPEED-CONTROLLING DEVICE FOR VEHICLES. GEZA HORVATH, Highland Park, Mich. Filed Dec. 15, 1919. Serial No. 345,013. 4 Claims. (Cl. 123—123.)



1. The combination of a carbureter body, a rotatable and slidable valvular member in said carbureter body adapted to admit fuel thereto, means adapted to adjust said valvular member, an adjustable valve in said carbureter body movable to and from said valvular member, a governor actuated means for adjusting said valve, and means adapted to indicate adjustment of said valve and valvular member.

1,377,965. RADIATOR CONSTRUCTION. GEZA HORVATH, Detroit, Mich., assignor to National Can Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 12, 1918, Serial No. 249,431. Renewed Mar. 25, 1921. Serial No. 455,434. 7 Claims. (Cl. 257—130.)

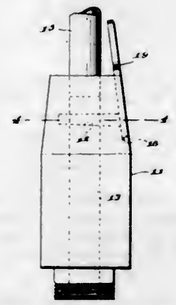
1. In radiator construction, a core assembly comprising a plurality of tube units each having a plurality of spacing elements projecting alternately in opposite directions, each unit having a zig-zag formation in the direction of fluid flow with the spacing members positioned at the apices of the angles, and a spacing plate positioned between units and having a configuration to extend substantially parallel to the units, said plate having

dimensions to permit the spacing members of one unit to project beyond the extremes of the opposing members of the adjacent unit, both sets of members contacting



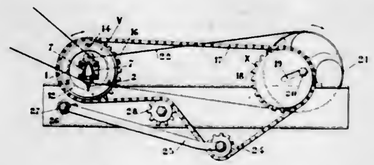
with the interposed spacing plate, said assembly providing air passages on opposite sides of the plate, said plate having a configuration to permit movement of air from one space to another.

1,377,966. SHUT-OFF FOR GAS-WELLS. FRANK W. HUNTER, Kinzua, Pa. Filed Nov. 8, 1920. Serial No. 422,584. 3 Claims. (Cl. 166—15.)



1. A gas well valve including a body, a removable closure for preventing escape of gas while a pipe is being placed, and a removable closure for preventing escape of gas except through the pipe.

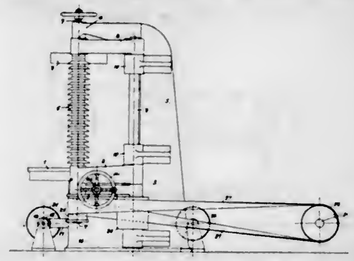
1,377,967. APPARATUS FOR HAMMERING PISTON-RINGS. CHARLES LAUFFET, Paris, France. Filed Sept. 2, 1919. Serial No. 321,231. 2 Claims. (Cl. 78—26.)



1. A machine for hammering piston rings comprising a hammer, means including a ratchet wheel and roller for reciprocating said hammer, means for supporting a piston ring and driving means for imparting a uniform reciprocating motion to the hammer and adapted to be adjusted to impart either a uniform rotary or a uniformly varied rotary motion to the ring.

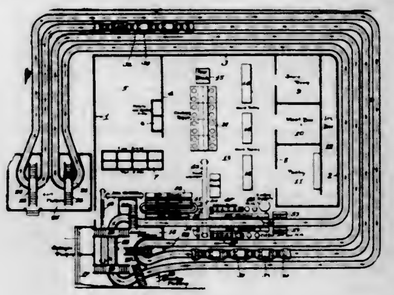
1,377,968. MACHINE FOR MAKING BARREL-HEADS. CHRISTOPHER JOHN MONTGOMERY, Liverpool, England. Filed Nov. 9, 1920. Serial No. 422,912. 2 Claims. (Cl. 147—40.)

1. A machine for shaping and dressing the peripheral edges of barrel heads, comprising a rotary support adapted to receive a series of barrel heads arranged in superimposed relation, upright shafts mounted beyond the support, spaced cutter carrying arms mounted on each of said shafts, a cutter shaft mounted in the free ends of each set of arms, an adjusting arm mounted for free rotary movement on each of the first mentioned shafts, a connection between each of said adjusting arms,



a cam way formed in the support, a screw shaft having threaded connection with each of said cutter carrying arms, means for connecting the ends of such shafts to permit the shafts to move longitudinally with respect to each other, and a connection between each of said shafts and the adjacent adjusting arm, whereby the cam way determines the cutting path of the cutters and the screw shafts the dimensions of such path.

1,377,969. RESTAURANT SYSTEM. LAZARUS MUNTEAN, Highland Park, Mich. Filed Aug. 19, 1920. Serial No. 404,703. 5 Claims. (Cl. 45—26.)



1. An endless track for a restaurant providing a substantially rectangular inclosure and having parallel loop portions at one side of the inclosure and loop portions one within the other, at another side of the inclosure, said loop portions affording a gap as an entrance to the inclosure, and table carrying cars on said track.

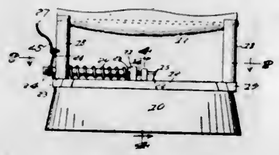
1,377,970. GAS-PRESSURE-REDUCING DEVICE. JAMES A. PARENT, Detroit, Mich., assignor of one-half to Thomas S. Richard, Detroit, Mich. Filed May 14, 1920. Serial No. 381,497. 2 Claims. (Cl. 67—120.)



2. The combination with a conduit composed of joined pipes adapted to have gas pass therethrough, of a cone open at one end only and supported axially of said conduit and providing a baffle, a cone surrounding and supporting the first mentioned cone, adapted to receive gas therefrom and restrict the passage of gas to the axis of said conduit.

a series of disks within the conduit adjacent the last mentioned cone causing the gas to travel in a tortuous path impinging against the walls of the conduit, and means between joined pipe ends of said conduit preventing longitudinal displacement of said disks.

1,377,971. SADIRON. HENRY PETERSON, Dunkirk, Mont. Filed May 1, 1920. Serial No. 378,091. 1 Claim. (Cl. 68—26.)



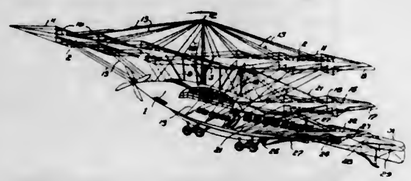
A sad iron having a body provided with a longitudinal seat and an upstanding tongue, a handle having a base bar for engagement with said seat and provided at an intermediate point with an opening for the reception of said tongue, a spring-actuated bolt provided with a collar and mounted upon the base bar for engagement with an opening in the tongue, and a bolt-operating lever mounted upon the handle in engagement with the collar on the bolt and provided with a fingerhold disposed adjacent to one end of the handle grip.

1,377,972. SPLICING-EAR FOR OVERHEAD TROLLEY-WIRES. RALPH ROSE and NICHOLAS F. CIMAGLIA, Mount Vernon, N. Y. Filed July 16, 1919. Serial No. 311,341. 8 Claims. (Cl. 191—44.)



1. In a device of the character described, the combination of a splicing member having bulged sides, adapted to have the ends of the trolley wire attached thereto, and a U-shaped guide piece removably attached to said splicing member, adapted to fit over the ends of the trolley wire and to have its sides bear against the sides of said splicing member.

1,377,973. TRIPLANE. JAMES L. SHANKLAND, Toronto, Ontario, Canada. Filed Aug. 23, 1919. Serial No. 319,376. 1 Claim. (Cl. 244—14.)



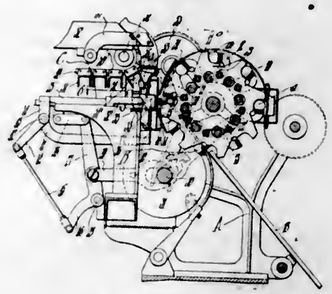
A tri-plane comprising a body, an aerofoil above said body, intermediate wings protruding from the sides of said body adjacent the top thereof, rear wings protruding from the sides of said body adjacent the bottom thereof, said wings being in planes stepped downwardly from said aerofoil and decreasing in area with the tips of said aerofoil and wings of less area than the central and inner portions thereof so as to concentrate the lifting power of said aerofoil and wing at said body, posts above and below said aerofoil and wings with the posts of each trussed together and to the lower sides of said body, masts mounted on said body in a central vertical plane with one of said masts extending through said aerofoil, mast wires connecting the top of each mast to said body and to the posts above said aerofoil and each wing, and struts connecting said body and said aerofoil.

1,377,974. PIE MARKER AND TRIMMER. EVELYN L. SIMPSON, Waterville, Me. Filed Oct. 1, 1920. Serial No. 414,016. 2 Claims. (Cl. 107—49.)



1. A device of the class described consisting of a handle; a disk revolubly mounted on one end thereof; and a plurality of lateral projections extending outwardly from one face of said disk and formed integral therewith.

1,377,975. WRAPPING-MACHINE. ELMER LOVELL SMITH, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Filed May 20, 1919. Serial No. 298,482. 15 Claims. (Cl. 93—5.)



4. In a wrapping machine, a turret, a plunger to feed articles to the turret and movable to and from the latter, said plunger having a forked end to receive the articles, a gate coöperating with such end to provide a pocket in which an article may be deposited, and means controlled by the plunger to move said gate to allow the plunger to carry the article to the turret.

1,377,976. FLOUR-MILLING MACHINERY. GEORGE T. SMITH, Wichita Falls, Tex., assignor of seventeen and two-thirds per cent. to Daisy Dell Sheldon, and one-third to C. P. Sheldon, Wichita Falls, Tex. Filed Feb. 28, 1919. Serial No. 279,717. 6 Claims. (Cl. 83—12.)

1. A flour milling system comprising a single flow consisting of a suitable casing, breaking rolls and sieves arranged in alternate formation in a single downward path, bran reels intermediate the upper and lower parts of the casing, chutes for delivering the bran to said bran reels, chutes for delivering middlings to reduction rolls below



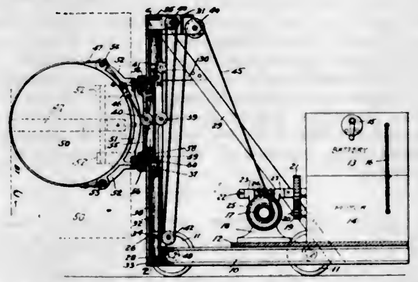
said reels, bolting reels at the lower end of said casing, and chutes for delivering flour from separating sieves above and below said bran reels to said bolting reels.

1,377,977. LADDER. ALBERT A. SORG, Grand Rapids, Mich. Filed Aug. 30, 1919. Serial No. 320,962. 2 Claims. (Cl. 228—22.)



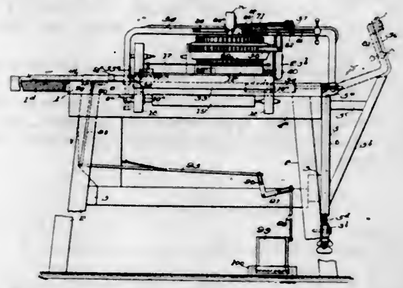
1. In combination with a step ladder having a vertically adjustable center section, lower sections supporting the center section; a slide pivotally mounted upon the upper ends of the lower sections, links pivotally connected with the lower sections, pivotally connected together, and slidably connected with the slides, said slides having slots that incline from the perpendicular, a rod mounted in said slots, and indentures formed in the edges of the stiles of the central section of the ladder to receive the rod and lock the ladder extension in place.

1,377,978. TRUCK. OTTO L. E. WEBER, St. Cloud, Minn. Filed May 8, 1919. Serial No. 295,770. 12 Claims. (Cl. 214—66.)



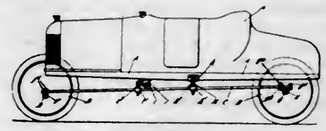
1. A truck comprising a frame, a carriage mounted for vertical movement therein, a block on the carriage mounted for rotation on a horizontal axis, means for clamping the article to be lifted on said block, means to raise and lower said carriage, and means adapted upon raising of the carriage to actuate said article-clamping means.

1,377,979. STENCIL-CUTTING APPARATUS. ERNEST G. CLARK, De Kalb, Ill. Filed July 30, 1919. Serial No. 314,389. 14 Claims. (Cl. 197—6.2.)



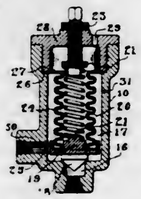
1. In a machine for the purpose indicated, in combination with a fixed support, a punch carrier mounted thereon for rotation about a fixed axis; a platen carrier mounted for movement along said fixed support, and a platen on said carrier; a pair of rolls from and onto which respectively a stencil web may be wound mounted on the platen carrier at opposite sides of the platen; and guide means for the stencil web at opposite sides of the platen, the platen being elevated above the plane of said guides.

1,377,980. SPRING SUSPENSION OF MOTOR ROAD-VEHICLES. LEONARD EUGENE COWEY, Kew Gardens, England. Filed Feb. 16, 1920. Serial No. 358,888. 8 Claims. (Cl. 267—41.)



7. In a motor road vehicle the combination with a chassis, of long springs disposed on opposite sides of the chassis, means attaching one end of each of said springs to the front axle, means attaching the other end of each of said springs to the rear axle, means connecting each of said springs to the chassis at two points in a non-rigid or flexible manner, one of said connections to the chassis being of such a character as to permit endwise movement of the springs relatively to the chassis, and means for adjusting the position of the rear connection to the chassis so as to alter the strength of the springs to suit different classes of vehicles or different loads on the same vehicle.

1,377,981. COMPRESSOR-CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 29, 1917. Serial No. 177,771. 22 Claims. (Cl. 251—145.)

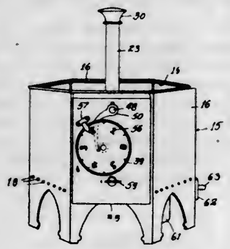


1. In a compressor controlling mechanism, a casing, a longitudinally extensible and compressible member therein, a valve for admitting fluid pressure to said casing carried by said member, and means normally seating said valve.

1,377,982. MANUFACTURE OF MOLYBDENUM TUNGSTEN ALLOY. FREDERICK G. KEYES, Cambridge, Mass., assignor to Cooper Hewitt Electric Company, a Corporation of New Jersey. Original application filed Oct. 16, 1915, Serial No. 56,214. Divided and this application filed July 11, 1917. Serial No. 179,933. 3 Claims. (Cl. 75—1.)

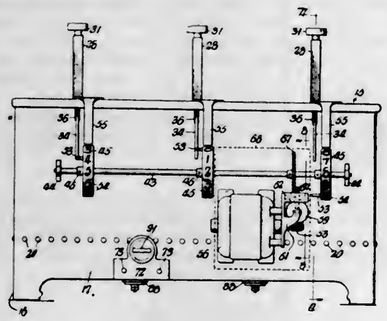
1. The step in the method of producing a bar of metallic alloy composed of molybdenum and tungsten which consists in subjecting a molded moistened bar of said metals to a drying process, applying to the dry bar a heat of about 1200° and passing through it a very slow stream of dry hydrogen.

1,377,983. EGG-BOILER. CHARLES CALVERT LAMB, Chicago, Ill. Filed Oct. 13, 1917. Serial No. 196,359. 9 Claims. (Cl. 161—16.)



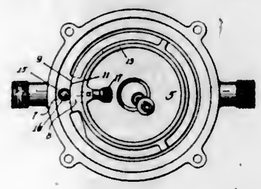
1. An egg boiler, comprising a tank, a receptacle vertically movable therein, means for raising said receptacle, an arm extending downward into said tank from adjacent the upper edge thereof and moved by said receptacle into locking engagement therewith upon the depression of the receptacle in said tank, and time controlled means for effecting the movement of said arm out of locking engagement with said receptacle.

1,377,984. EGG-BOILER. CHARLES C. LAMB, Chicago, Ill. Filed Mar. 29, 1918. Serial No. 225,479. 12 Claims. (Cl. 161—16.)



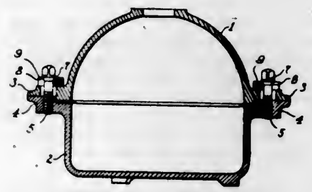
1. An egg boiler, comprising a tank, a receptacle vertically movable therein, means for raising said receptacle, a pivotally mounted trigger having two connected arms straddling one of the upright walls of said tank and having movement transverse of said tank wall, said trigger having one arm extending downward into the tank and moved by said receptacle into locking engagement therewith upon the depression of said receptacle in said tank, and the other arm extending downward on the outside of said tank, and time controlled means adapted to operate on the outer arm for moving the inner arm out of locking engagement with said receptacle.

1,377,985. METER. FRANK LAMBERT, Brooklyn, N. Y., assignor to Thomson Meter Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,652. 3 Claims. (Cl. 73—98.)



1. In a meter, a casing containing a measuring chamber, said casing and chamber having coacting projections on their side walls, the adjacent surfaces of said projections being shaped to form a tight joint, said projections being provided with ports arranged to register when the chamber is in position within the casing, the projection on the measuring chamber having a hole and the projection on the casing having a recess, a fastening member slidable in said hole when loosened and having a head adapted to enter said recess, and means engaging said member for drawing said head against the walls of said recess and thereby tightening the joint between said coacting surfaces, the head of said member passing freely into and out of said recess when said member is loosened to permit ready insertion of the measuring chamber into the casing and its ready removal therefrom.

1,377,986. YIELDING FASTENING FOR JOINTS. FRANK LAMBERT, Brooklyn, N. Y., assignor to Thomson Meter Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,653. 3 Claims. (Cl. 285—134.)

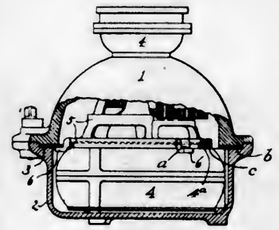


1. The combination with two joint members, of means for connecting said members comprising headed screws passing each through a screw-hole of one of said members into engagement with the other of said members, the said screw-hole being of a size to permit free passage of the head of the screw, and an expansion member normally interposed between the screw-head and the joint member provided with the screw-hole, but adapted to expand under pressure to permit the passage of the screw-head.

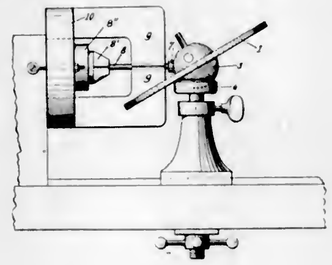
1,377,987. WATER-METER. FRANK LAMBERT, Brooklyn, N. Y., assignor to Thomson Meter Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,654. 7 Claims. (Cl. 73—98.)

1. In a water meter, the combination of a two-part casing, a measuring chamber within said casing, a gear frame freely mounted on said measuring chamber, projecting lugs on said gear frame, said lugs being out of supporting engagement with the lower part of the meter casing, the top face of the lower casing part being substantially on a level

with the top faces of said lugs, said top faces of the lower casing part and lugs coacting to form a level gasket support, a gasket on said support, and means on the upper casing part to bear down on said gasket and thereby hold said gear frame in place.

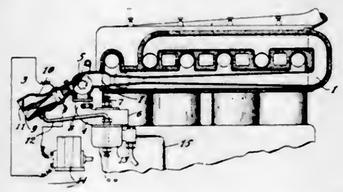


1,377,988. METHOD OF AND APPARATUS FOR FINISHING WATER-METER DISKS. FRANK LAMBERT, Brooklyn, N. Y., assignor to Thomson Meter Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,655. 8 Claims. (Cl. 90—20.)



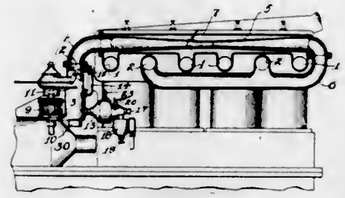
1. The herein-described method of finishing the slots of slotted meter disks having spherical central portions, which consists in oscillating the spherical portion of the disk in working contact with a rotating concave-faced cutter.

1,377,989. METHOD OF OPERATING INTERNAL-COMBUSTION ENGINES. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed Nov. 6, 1919. Serial No. 336,027. 17 Claims. (Cl. 123—122.)



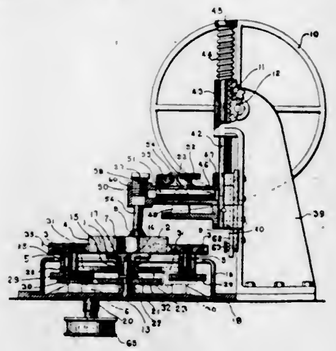
1. The method of operating internal combustion engines which consists in causing the suction effect of the rotating engine to cause the flow of mixture of liquid fuel and air coincidently from two separate localities, while controlling the proportions of the mixture from each locality, igniting the mixture from one of said localities, commingling the ignited with the unignited mixture in transit to the engine and running the engine on the commingled medium.

1,377,990. COMBUSTION-ENGINE. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 21, 1917, Serial No. 149,998. Renewed Mar. 23, 1920. Serial No. 368,158. 59 Claims. (Cl. 123—122.)



1. In combination, an internal combustion engine having a throttle-controlled suction intake including a carbureter delivering charge-mixture-proportions, and an automatically-igniting burner connected with said intake and having fuel and air admission means functioning by the suction of said intake to maintain relative proportions serving to support a continuous flame within itself, and an outlet from said burner adapted to deliver the burner products into said intake by the effect of the suction therein for supplying heat to vaporize the engine fuel.

1,377,991. WHEEL-TRIMMING MACHINE. THURE LARSSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1920. Serial No. 374,575. 14 Claims. (Cl. 82—1.)



1. A wheel trimming machine comprising a cutting tool, a support for the same, and means frictionally driving against and movable relative to the surface of the wheel to rotate said wheel while in engagement with the cutting tool.

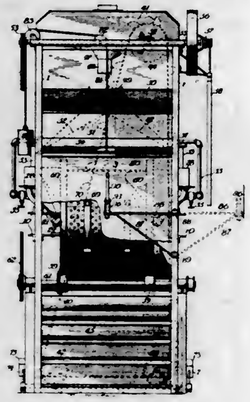
1,377,992. FUEL. CHARLES LE PETIT, Mombasa, British East Africa, assignor to Power Alcohol Limited, London, England. Filed Sept. 18, 1919. Serial No. 324,296. 7 Claims. (Cl. 44—9.)

1. The herein described fuel composition which comprises a combustible liquid containing an aliphatic amin and a formyl ester.

1,377,993. SAND-BLAST MACHINE. ELMER A. RICH, Jr., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y., a Corporation of Ohio. Filed Apr. 7, 1916. Serial No. 89,532. 10 Claims. (Cl. 51—13.)

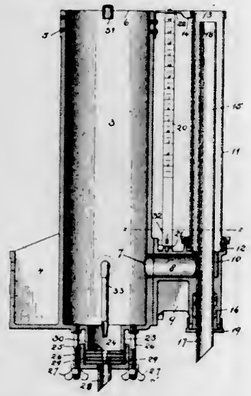
2. The combiantion of a rotary drum provided with apertures for the escape of sand, a frame supporting said drum, and an inclined platform located below said drum

and arranged to convey sand downwardly from said drum, said platform being hinged near the floor so that



when swung down into a horizontal position it will form a support for a truck, and a counterweight and arms for counterbalancing said platform.

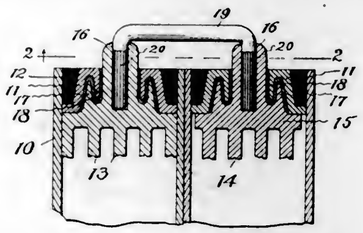
1,377,994. LIQUID-FEEDING APPARATUS. FREDERICK H. WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Oct. 2, 1916. Serial No. 123,247. 3 Claims. (Cl. 137—21.)



1. In a liquid-feed apparatus, the combination with a receptacle having two outlets one of a greater capacity than the other, of means for varying the size of the outlet of the lesser capacity to one of a plurality of predetermined sizes at a time; a tube having continuous communication with the outlet of the greater capacity; an adjustable overflow tube in said tube, and a scale for each size of outlet of the plurality of sizes whereby a predeterimned quantity of liquor may be discharged in a given time by adjusting the overflow tube in accordance with the scale for the size of outlet employed.

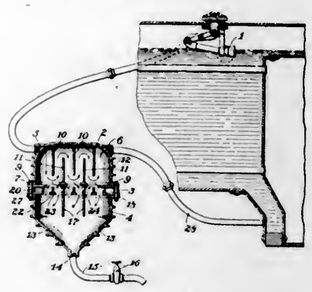
1,377,995. STORAGE BATTERY. THEODORE A. WILLARD, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Aug. 7, 1916. Serial No. 113,423. 3 Claims. (Cl. 204—29.)

1. In a storage battery, a pair of cells each comprising a chamber containing a group of battery plates connected together by an integral and substantially horizontal strap with an integral post extending upwardly from an intermediate point of the strap, and a one-piece substantially



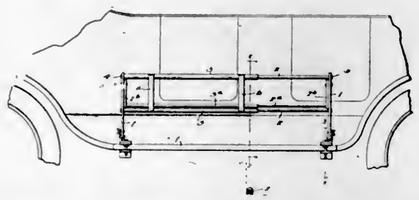
U-shaped cross connector extending across from one cell to the other and having its end portions extending centrally and axially into and embedded in the posts of the two cells.

1,377,996. PRECIPITATOR. WILLIAM E. WINE, Toledo, Ohio. Filed Mar. 6, 1920. Serial No. 363,738. 7 Claims. (Cl. 210—60.)



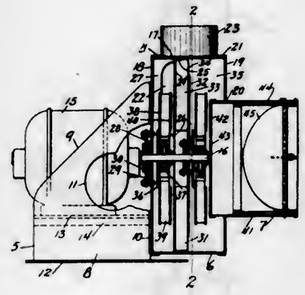
1. A precipitator comprising an upper dome-shaped portion provided with a plurality of spaced baffle walls, a plane central portion also provided with a plurality of baffles and a lower portion also provided with baffle walls, the bottom walls of the lower portion converging and said precipitator provided with inlet, outlet and drain passages.

1,377,997. LUGGAGE-CARRIER. ALBERT A. KLUG, ARTHUR M. REYNOLDS, and ETHAN L. REYNOLDS, Delton, Wis. Filed June 10, 1919, Serial No. 303,135. Renewed Apr. 13, 1921. Serial No. 460,911. 3 Claims. (Cl. 224—29.)



1. A device of the type described, including end members, means for the attachment thereof to carrying means, telescoping extensible and retractable means of connection between said end members and an additional rod and tubular like connection between said end members, the rod and tubular members of the latter connection having direct pivotal link connections with said end members.

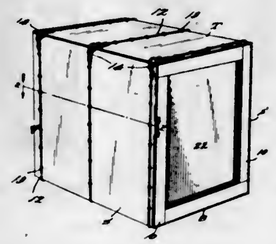
1,377,998. SUCTION OR BLOWING APPARATUS. IRA H. SPENCER, West Hartford, Conn., assignor to The Spencer Turbine Company, West Hartford, Conn., a Corporation of Connecticut. Filed Nov. 17, 1920. Serial No. 424,596. 7 Claims. (Cl. 230—11.)



1. A suction or blowing apparatus casing comprising a motor section with sides arranged in spaced relation, a motor supporting plate extending between the side parts and secured thereto, and a fan section having an end with its flat face secured against the back edges of said sides.

REISSUES.

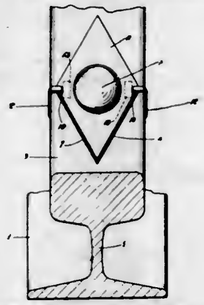
15,100. BOX OR CRATE. HUGH BROWN, Battle Creek, Mich., assignor, by mesne assignments, to Wirebounds Patents Company, a Corporation of Maine. Filed Sept. 22, 1915. Serial No. 52,133. Original No. 1,133,001, dated Mar. 23, 1915, Serial No. 753,311, filed Mar. 10, 1913. 24 Claims. (Cl. 217—12.)



1. A wirebound package, comprising a plurality of individual sections, each comprising a pair of cleats and connecting sheet material, binding wires attached to such sections so as to connect them in foldable relation, each of said binding wires carrying an eye at each end stopping short of registry with each other when the sections are folded, and a single fastening means passing through the several oppositely disposed eyes along an edge of the package to firmly hold the top section closed.

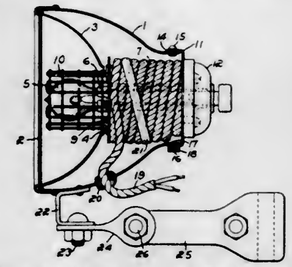
15,101. SIGNALING-TORPEDO. WILLIAM T. MCCULLOUGH, Pittsburgh, Pa., assignor of one-half to Henry J. Orth, Pittsburgh, Pa. Filed Mar. 3, 1921. Serial No. 449,533. Original No. 1,337,240, dated Apr. 20, 1920, Serial No. 219,222, filed Feb. 26, 1918. 9 Claims. (Cl. 246—487.)

1. A torpedo comprising an integral body formed of two superimposed parts in the form of diamond-shaped parallelograms whereby pointed end portions beyond the explosive charge are provided, one of said parts having a pocket formed therein, and an explosive charge in the



pocket and between the two parts, the other part forming the bottom portion of the body.

15,102. ELECTRIC SPOTLIGHT. JOHN P. NIKONOW, New York, N. Y., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 16, 1919. Serial No. 318,059. Original No. 1,300,454, dated Apr. 15, 1919, Serial No. 246,290, filed July 23, 1918. 12 Claims. (Cl. 240—7.)



9. Lighting apparatus comprising a support or bracket, a lamp structure sustained thereby and including a reflector, a light normally positioned in front of the reflector, an element presented at the rear of the lamp structure and providing a handle whereby said light may be withdrawn rearwardly from said reflector, a conductor leading to said light and laterally connected thereto to leave said handle unobstructed thereby and a reel for storing slack of said conductor intervening between its point of connection and said support.

15,103. PHOTOGRAPHIC PRINTS ON METAL. PHILO V. SNOW, Chicago, Ill., assignor to The Radiotone Photo Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1921. Serial No. 449,532. Original No. 1,346,140, dated July 13, 1920, Serial No. 323,121, filed Sept. 11, 1919. 24 Claims. (Cl. 41—27.)



8. A process for producing photographic prints on metal which includes printing from a negative on a sensitized sheet of metal, developing the print, dyeing the print, polishing the print, and coating the print with a preservative.

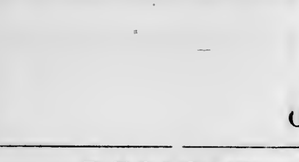
DESIGNS.

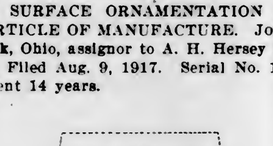
57,806. SURFACE ORNAMENTATION APPLIED TO AN ARTICLE OF MANUFACTURE. JOSEPH O. BALDA, Newark, Ohio, assignor to A. H. Hersey & Co., Newark, Ohio. Filed Aug. 9, 1917. Serial No. 185,366. Term of patent 14 years.



The ornamental design for a surface ornamentation applied to an article of manufacture, substantially as shown and described.

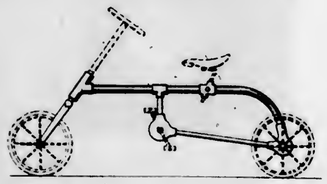
57,807. VELOCIPEDE-FRAME. LUCIEN J. BARIBAULT, West Haven, Conn., assignor of one-half to Lewis M. Ryman, New Haven, Conn. Filed Apr. 29, 1920. Serial No. 377,721. Term of patent 7 years.





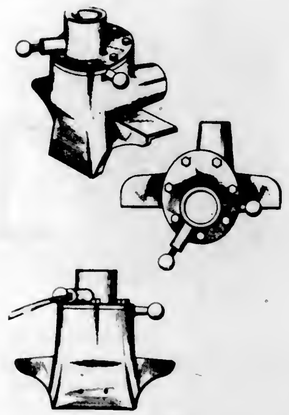
The ornamental design for a velocipede frame as shown.

57,808. VELOCIPEDE-FRAME. LUCIEN J. BARIBAULT, West Haven, Conn., assignor of one-half to Lewis M. Ryman, New Haven, Conn. Filed July 6, 1920. Serial No. 394,370. Term of patent 14 years.



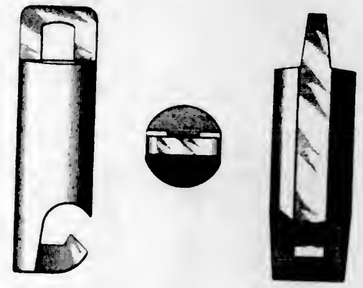
The ornamental design for a velocipede frame as shown.

57,809. GEAR-CASING FOR WASHING-MACHINES. HARRY O. BARTLETT, Washington, D. C., assignor to Bowers & Bartlett, Inc., Washington, D. C., a Corporation of Maryland. Filed Aug. 16, 1920. Serial No. 403,960. Term of patent 14 years.



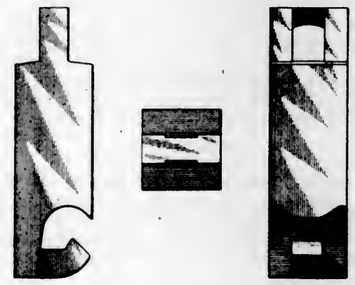
The ornamental design for a gear casing for washing machines, as shown.

57,810. SECTIONAL SASH-WEIGHT. WILLIAM A. BARTLEY, Washington, N. J. Filed Oct. 27, 1920. Serial No. 420,029. Term of patent 14 years.



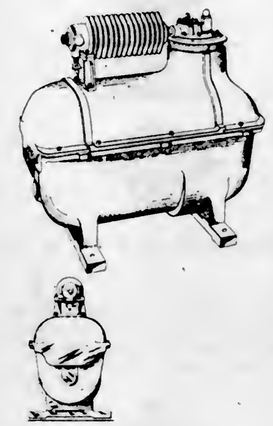
The ornamental design for a sectional sash weight, as shown.

57,811. SECTIONAL SASH-WEIGHT. WILLIAM A. BARTLEY, Washington, N. J. Filed Oct. 27, 1920. Serial No. 420,030. Term of patent 14 years.



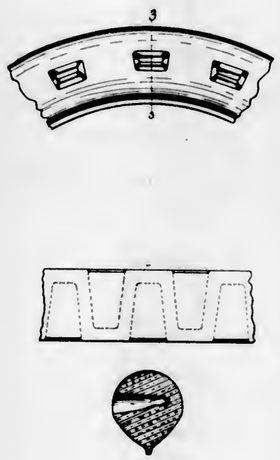
The ornamental design for a sectional sash weight, as shown.

57,812. HOUSING FOR ELECTRIC AIR COMPRESSORS AND MOTORS. SAMUEL DUNCAN BLACK and ALONZO G. DECKER, Baltimore, Md., assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Filed June 6, 1919. Serial No. 302,345. Term of patent 14 years.



The design for a housing for electric air compressors and motors substantially as shown.

57,813. TIRE-CORE. WALTER A. BLACK, Perry, Iowa. Filed Oct. 23, 1920. Serial No. 419,097. Term of patent 14 years.



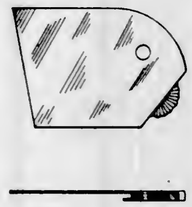
The ornamental design for a tire core, as shown.

57,814. PERCOLATOR, URN, OR SIMILAR ARTICLE. RUDOLPH J. BOURGEOIS, Chicago, Ill., and GEORGE P. ITTIG, Bridgeport, Conn., assignors to W. D. Smith Silver Company, a Corporation of Delaware. Filed Nov. 29, 1918. Serial No. 264,743. Term of patent 14 years.



The ornamental design for a percolator, urn, or similar article, as shown.

57,815. PASTRY-TOOL. JOHN CLARK BROWN, Minneapolis, Minn. Filed Sept. 26, 1919. Serial No. 326,685. Term of patent 14 years.



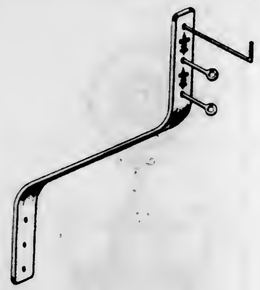
The new and ornamental design for a pastry tool, as shown.

57,816. FAN. WILLIAM BROWN, St. Louis, Mo. Filed Oct. 18, 1920. Serial No. 417,854. Term of patent 7 years.



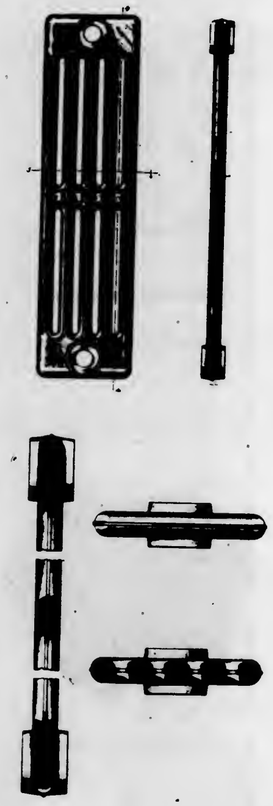
The ornamental design for a fan, as shown.

57,817. CURTAIN-POLE BRACKET. NICOLA CIMINO, Providence, R. I. Filed Aug. 6, 1920. Serial No. 401,796. Term of patent 7 years.



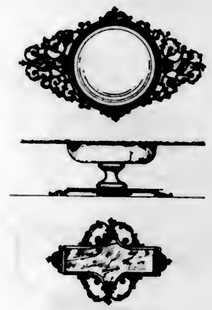
The ornamental design for a curtain pole bracket, as shown.

57,818. RADIATOR-SECTION. LOUIS COUATOT, Paris, France, assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 30, 1919. Serial No. 320,954. Term of patent 14 years.



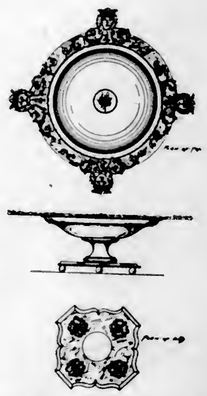
The ornamental design for a radiator section, as shown.

57,819. DISH. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Dec. 22, 1919. Serial No. 346,792. Term of patent 7 years.



The ornamental design for a dish, as shown.

57,820. DISH. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Dec. 22, 1919. Serial No. 346,793. Term of patent 7 years.



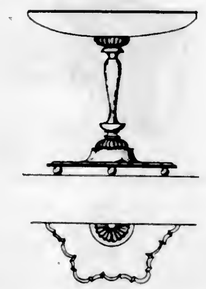
The ornamental design for a dish, as shown.

57,821. DISH. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Dec. 22, 1919. Serial No. 346,795. Term of patent 7 years.



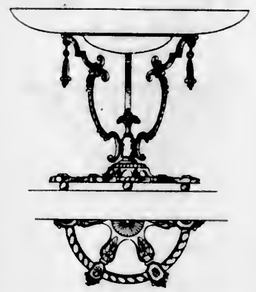
The ornamental design for a dish, as shown.

57,822. FRUIT-DISH OR ARTICLE OF SIMILAR NATURE. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,936. Term of patent 7 years.



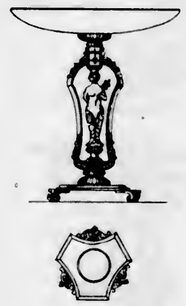
The ornamental design for a fruit dish or article of similar nature, as shown.

57,823. FRUIT-DISH OR ARTICLE OF SIMILAR NATURE. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,937. Term of patent 7 years.



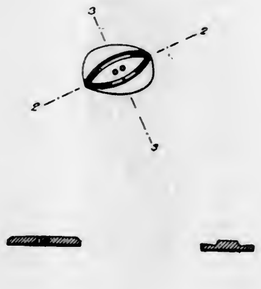
The ornamental design for a fruit dish or article of similar nature, as shown.

57,824. FRUIT-DISH OR ARTICLE OF SIMILAR NATURE. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 29, 1920. Serial No. 354,938. Term of patent 7 years.



The ornamental design for a fruit dish or article of similar nature, as shown.

57,825. BUTTON. MURRAY C. DAMON, Leominster, Mass. Filed Oct. 8, 1920. Serial No. 415,706. Term of patent 3½ years.



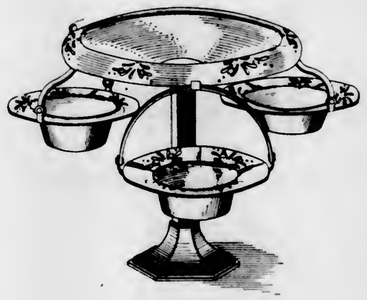
The ornamental design for a button substantially as shown and described.

57,826. HEEL-PLATE. TORGEIR B. FADUM, La Salle, N. Y., assignor to Fadum & Jackson, Niagara Falls, N. Y., a Firm. Filed Nov. 29, 1918 Serial No. 264,746. Term of patent 7 years.



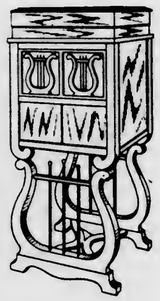
The ornamental design for a heel plate, as shown.

57,827. BONBON-DISH. HARRY FARBER and LOUIS FARBER, New York, N. Y. Filed Aug. 13, 1920. Serial No. 403,402. Term of patent 3½ years.



The original design for a bonbon dish, as shown.

57,828. PHONOGRAPH-CASE. JOHN A. FERN, Cincinnati, Ohio. Filed Aug. 2, 1920. Serial No. 400,876. Term of patent 7 years.



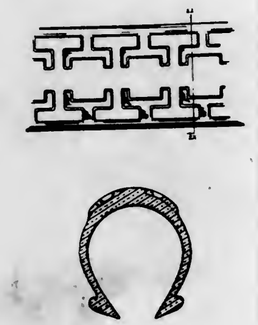
The ornamental design for a phonograph case, as shown.

57,829. PHONOGRAPH-CASE. JOHN A. FERN, Cincinnati, Ohio. Filed Aug. 6, 1920. Serial No. 401,801. Term of patent 7 years.



The ornamental design for a phonograph case, as shown.

57,830. AUTOMOBILE-TIRE TREAD. GUY E. FORESMAN, La Fayette, Ind. Filed June 15, 1920. Serial No. 389,247. Term of patent 3½ years.



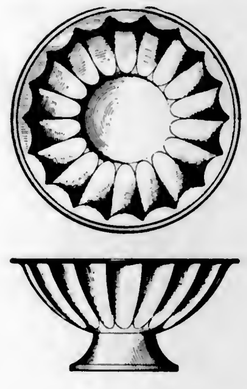
The ornamental design for an automobile tire tread as shown.

57,831. RULE-HOLDER. TIMOTHY D. FREDERICK, San Francisco, Calif. Filed Dec. 2, 1920. Serial No. 427,917. Term of patent 7 years.



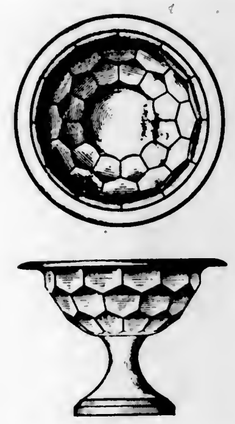
The ornamental design for a rule holder, as shown.

57,832. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,487. Term of patent 7 years.



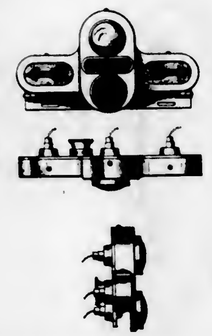
The ornamental design for an article of hollow tableware, as shown.

57,833. ARTICLE OF HOLLOW TABLEWARE. VICTOR GAERTNER, New York, N. Y. Filed Nov. 11, 1920. Serial No. 433,488. Term of patent 7 years.



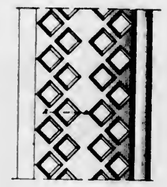
The ornamental design for an article of hollow tableware, as shown.

57,834. REAR-END SIGNAL DEVICE FOR AUTOMOBILES. GEORGE D. GORDON, Philadelphia, Pa. Filed Oct. 30, 1920. Serial No. 420,815. Term of patent 14 years.



The ornamental design for a rear end signal device for automobiles, substantially as shown.

57,835. TIRE-TREAD. WILLIAM J. GREENE, Memphis, Tenn., assignor to The Dixie Rubber Company, Memphis, Tenn., a Corporation of Mississippi. Filed Sept. 29, 1920. Serial No. 413,626. Term of patent 14 years.



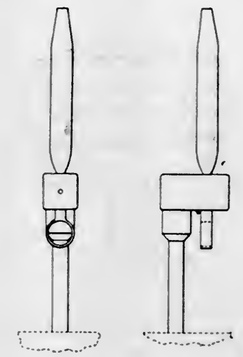
The ornamental design for a tire tread as shown.

57,836. TREAD FOR AN AUTOMOBILE-TIRE. GEORGE GROW, Boston, Mass. Filed Nov. 9, 1920. Serial No. 422,963. Term of patent 14 years.



The ornamental design for a tread for an automobile tire, as shown.

57,837. CIGAR-LIGHTER. ELMER P. HERSEY, Boston, Mass. Filed July 3, 1920. Serial No. 393,982. Term of patent 7 years.



The ornamental design for a cigar lighter as shown.

57,838. TICKET FOR NET GOODS OR VEILINGS. EMANUEL JACOB, New York, N. Y., assignor to H. Jacob & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 13, 1920. Serial No. 423,991. Term of patent 14 years.



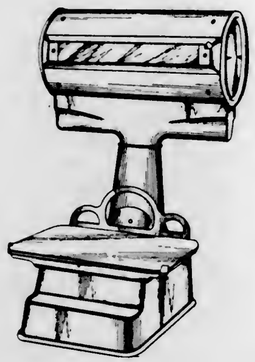
The ornamental design for a ticket for net goods or veilings, as shown.

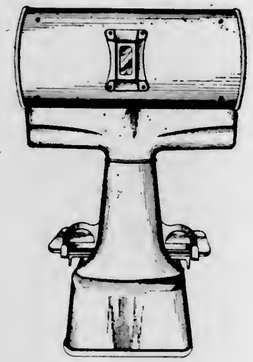
57,839. AUTOMOBILE-HOOD. THOMAS J. KEHOE, Toledo, Ohio. Filed Nov. 22, 1917. Serial No. 203,319. Term of patent 14 years.



The ornamental design for an automobile hood substantially as shown.

57,840. COMPUTING-SCALE. BERT W. KING, Detroit, Mich. Filed Oct. 4, 1920. Serial No. 414,677. Term of patent 14 years.





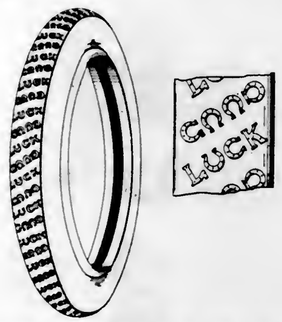
The ornamental design for a computing scale, as shown.

57,841. ATTACHMENT-PLUG CAP. CHARLES J. KLEIN, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 23, 1917. Serial No. 157,021. Term of patent 14 years.



The ornamental design for an attachment plug cap, as shown.

57,842. TIRE-TREAD. CLARENCE A. KLINE, San Francisco, Calif. Filed Oct. 28, 1920. Serial No. 420,298. Term of patent 7 years.



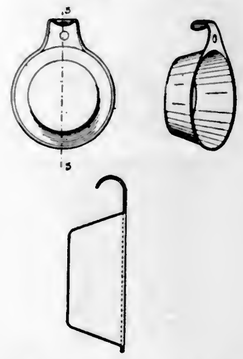
The ornamental design for a tire tread, as shown.

57,843. FLOWER-HOLDER. EDWARD L. KNOWLES, Alliance, Ohio. Filed Aug. 9, 1920. Serial No. 402,431. Term of patent 14 years.



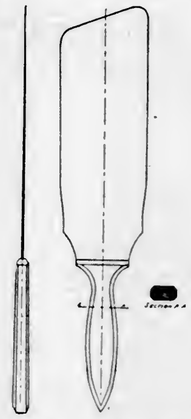
The ornamental design for a flower holder, as shown.

57,844. CUP. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 23, 1920. Serial No. 412,397. Term of patent 7 years.



The ornamental design for a cup as shown.

57,845. STIRRING AND TURNING TOOL. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,966. Term of patent 14 years.



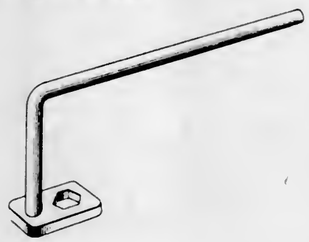
The ornamental design for a stirring and turning tool, as shown.

57,846. WINDOW-SHADE. ANGELINA U. LUCA, Meriden, Conn. Filed Nov. 19, 1920. Serial No. 425,270. Term of patent 14 years.



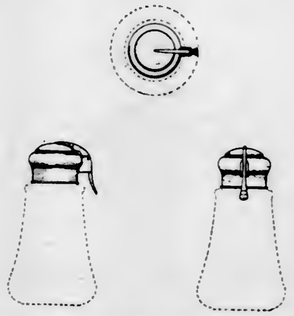
The ornamental design for a window shade as shown.

57,847. WRENCH. JOSEPH A. MALLETT, Worcester, Mass. Filed Sept. 18, 1920. Serial No. 411,331. Term of patent 3½ years.



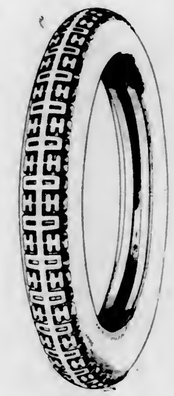
The ornamental design for a wrench as shown.

57,848. CONDIMENT-SHAKER. MARCELLINE MCCARTHY, New Orleans, La. Filed Oct. 9, 1920. Serial No. 415,016. Term of patent 7 years.



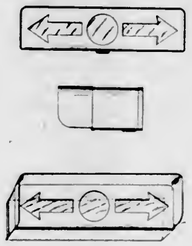
The ornamental design for a condiment shaker as shown.

57,849. AUTOMOBILE-TIRE. CHARLES W. MCKONE, Carrollton, Ohio, assignor to The Tuscan Tire & Rubber Company, Carrollton, Ohio, a Corporation of Ohio. Filed Sept. 4, 1920. Serial No. 408,369. Term of patent 14 years.



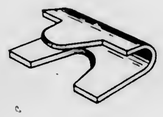
The ornamental design for an automobile tire, substantially as shown.

57,850. AUTOMOBILE-SIGNAL. EARNEST E. MULLVAIN, Berkeley, Calif., assignor to Edward C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and Van A. Shafer, trustees for the National Auto Signal Company. Filed Sept. 22, 1919. Serial No. 325,558. Term of patent 14 years.



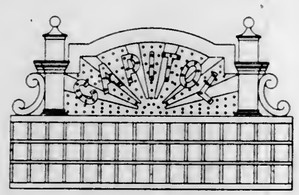
The new and ornamental design for an automobile signal, substantially as shown.

57,851. SECURING-CLIP FOR SPRINGS. HERMANN C. NAUMANN, Detroit, Mich., assignor to Peninsular Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 13, 1920. Serial No. 403,413. Term of patent 14 years.



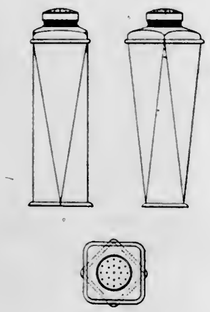
The ornamental design for a securing clip for springs as shown.

57,852. ELECTRIC SIGN. MORTIMER NORDEN, New York, N. Y. Filed Nov. 15, 1920. Serial No. 424,304. Term of patent 7 years.



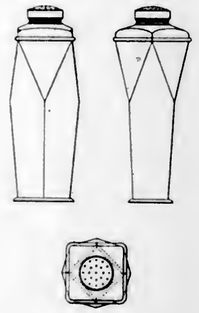
The ornamental design for an electric sign, as shown.

57,853. TALCUM-POWDER CAN. CHARLES H. NOWACK, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1920. Serial No. 354,254. Term of patent 14 years.



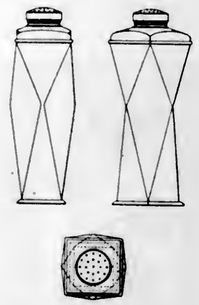
The ornamental design for a talcum powder can, as shown.

57,854. TALCUM-POWDER CAN. CHARLES H. NOWACK, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1920. Serial No. 354,255. Term of patent 14 years.



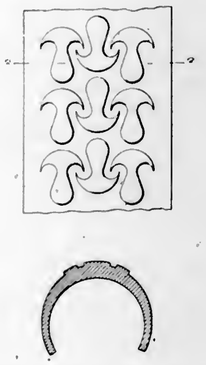
The ornamental design for a talcum powder can, as shown.

57,855. TALCUM-POWDER CAN. CHARLES H. NOWACK, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1920. Serial No. 354,256. Term of patent 14 years.



The ornamental design for a talcum powder can, as shown.

57,856. TIRE. JOHN OLSON, Delavan, Ill. Filed Nov. 6, 1920. Serial No. 422,399. Term of patent 14 years.



The ornamental design for a tire, as shown.

57,857. PHONOGRAPH-CABINET. HENRY ORSENIGO, Mount Vernon, N. Y. Filed Dec. 27, 1919. Serial No. 347,875. Term of patent 14 years.



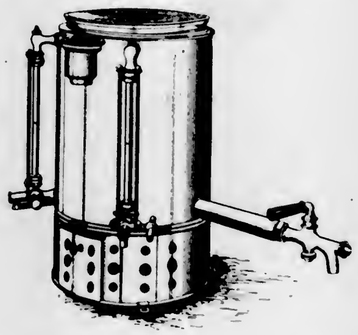
The ornamental design for a phonograph cabinet, as shown.

57,858. SURFACE ORNAMENTATION FOR THE BODY OF AN ARTIFICIAL-MINNOW BAIT. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Co., Akron, Ohio, a Corporation of Ohio. Filed Sept. 21, 1918. Serial No. 255,192. Term of patent 14 years.



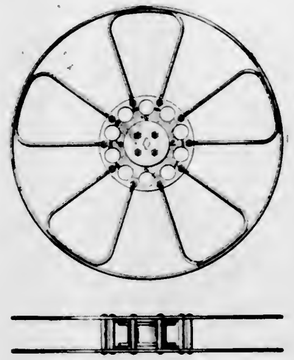
The ornamental design for surface ornamentation for the body of an artificial minnow bait, as shown.

57,859. COFFEE-URN. ISAAC C. POPPER, New York, N. Y., assignor to The Theroz Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 12, 1920. Serial No. 423,736. Term of patent 14 years.



The ornamental design for a coffee urn, as shown.

57,860. FILM-REEL. EDWIN STANTON PORTER, New York, N. Y. Filed Sept. 14, 1920. Serial No. 410,337. Term of patent 7 years.

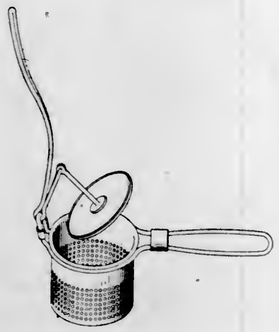


The ornamental design for a film reel, substantially as shown.

57,861. WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 19, 1919. Serial No. 325,030. Term of patent 14 years.

The ornamental design for a wheel, substantially as shown.

57,862. POTATO MASHER AND RICER. HENRY P. ROBERTS, Boston, Mass., assignor to John I. Taylor, Dedham, Mass. Filed Nov. 28, 1917. Serial No. 204,473. Term of patent 3½ years.



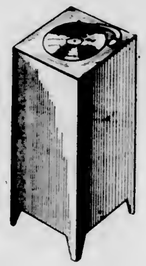
The ornamental design for a potato masher and ricer as shown.

57,863. COLLAR-HOLDER. E. IRVING ROGERS, Jr., Providence, R. I. Filed Oct. 27, 1920. Serial No. 420,032. Term of patent 7 years.



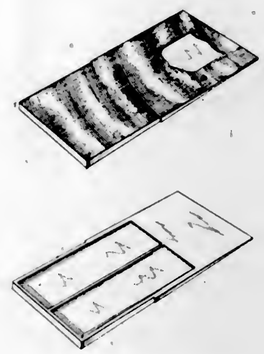
The ornamental design for a collar holder as shown.

57,864. CANDY-PACKAGE. ALFRED ROZOWSKY, New York, N. Y. Filed Nov. 10, 1919. Serial No. 337,033. Term of patent 3½ years.



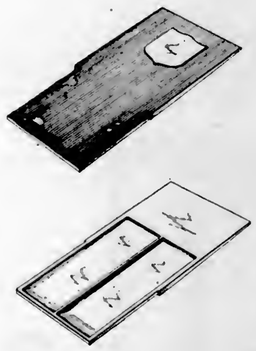
The ornamental design for a candy package, as shown.

57,865. ROOFING-SHINGLE. JOHN A. SCHARWATH, Elizabeth, N. J., assignor of one-half to Curt R. Burkhardt, Teaneck, N. J. Filed Nov. 5, 1918. Serial No. 261,301. Term of patent 14 years.



The ornamental design for a roofing shingle substantially as shown and described.

57,866. ROOFING-SHINGLE. JOHN A. SCHARWATH, Elizabeth, N. J., assignor of one-half to Curt R. Burkhardt, Teaneck, N. J. Filed Nov. 5, 1918. Serial No. 261,302. Term of patent 14 years.



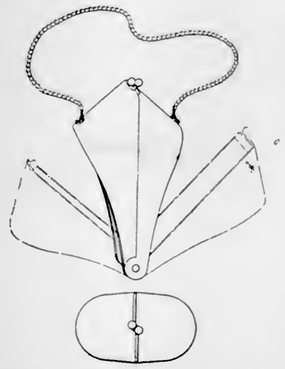
The ornamental design for a roofing shingle substantially as shown and described.

57,867. BOTTLE. FREDERICK W. SCHWENCK, Cincinnati, Ohio, assignor to J. Grossman's Sons, New Orleans, La., a Partnership composed of Adolphe Grossman and Isidore Grossman. Filed July 17, 1920. Serial No. 397,124. Term of patent 14 years.



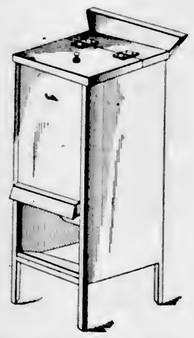
The ornamental design for a bottle as shown.

57,868. HANDBAG-FRAME. MAX SLOANE, Brooklyn, N. Y. Filed Aug. 10, 1920. Serial No. 402,703. Term of patent 7 years.



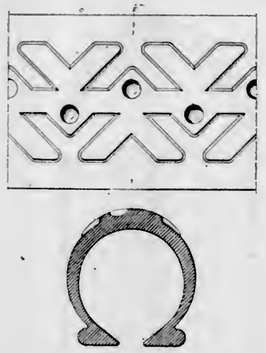
The ornamental design for a handbag frame, as shown.

57,869. COAL-BIN. ARTHUR SPENCE, Cleveland, Ohio. Filed Dec. 30, 1916. Serial No. 139,982. Term of patent 14 years.



The ornamental design for a coal bin, as shown.

57,870. VEHICLE-TIRE. ROBERT J. STOKES, Trenton, N. J., assignor to Thermoid Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Sept. 12, 1919. Serial No. 323,407. Term of patent 14 years.



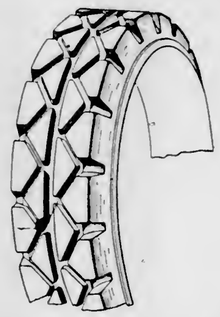
The ornamental design for a vehicle tire, substantially as shown.

57,871. ARTIFICIAL BAIT. WILLIAM A. STOLLEY, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a Corporation of Michigan. Filed Oct. 2, 1920. Serial No. 414,370. Term of patent 14 years.



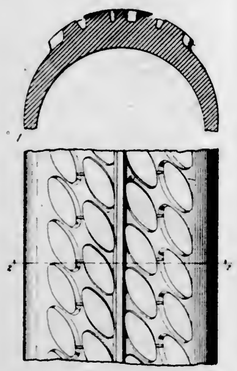
The ornamental design for artificial bait substantially as disclosed.

57,872. VEHICLE-TIRE. MAURICE SWITZER, New York, N. Y., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 20, 1920. Serial No. 418,338. Term of patent 14 years.



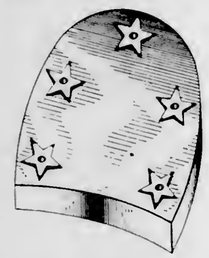
The ornamental design for a vehicle tire as shown.

57,873. PNEUMATIC-TIRE TREAD. JAMES D. TEW, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1920. Serial No. 376,879. Term of patent 14 years.



The ornamental design for a pneumatic tire tread as shown.

57,874. RUBBER HEEL. TONY TRIMBOLI, Uhrichsville, Ohio. Filed Apr. 8, 1920. Serial No. 372,370. Term of patent 7 years.



The ornamental design for a rubber heel, as shown.

57,875. WATCHCASE-BOW. ARTHUR W. WADSWORTH, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed July 25, 1919. Serial No. 313,395. Term of patent 14 years.



The ornamental design for a watch-case bow, substantially as shown.

57,876. BEZEL OR SIMILAR DEVICE. FREDERICK W. WALKER, Royal Oak, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 8, 1920. Serial No. 415,697. Term of patent 14 years.



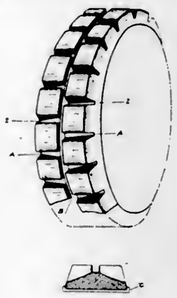
The ornamental design for a bezel or similar device, as shown.

57,877. CHAIR. ALBERT WANNER, Jr., New York, N. Y. Filed Nov. 1, 1917. Serial No. 199,768. Term of patent 14 years.



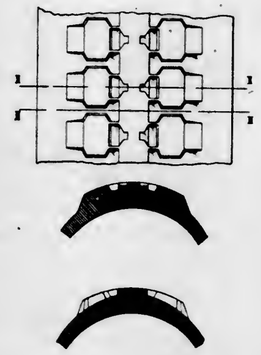
The ornamental design for a chair, substantially as herein shown.

57,878. VEHICLE-TIRE. REGINALD H. WATERS, Akron, Ohio, assignor to Kelley-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 22, 1920. Serial No. 425,925. Term of patent 14 years.



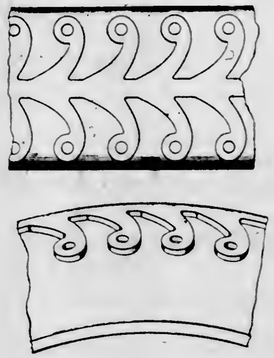
The ornamental design for a vehicle tire as shown and described.

57,879. AUTOMOBILE-TIRE. ORR H. WILLIAMS, Columbus, Ohio. Filed Oct. 22, 1920. Serial No. 418,835. Term of patent 14 years.



The ornamental design for an automobile tire, as shown.

57,880. AUTOMOBILE-TIRE. JOHN G. WOLFE, Chicago, Ill. Filed May 17, 1920. Serial No. 382,512. Term of patent 7 years.



The ornamental design for an automobile tire as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 10, 1921.

[PUBLISHED MAY 17, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 79,855. (CLASS 17. TOBACCO PRODUCTS.) JULIUS C. NEWMAN, Cleveland, Ohio. Filed July 16, 1914.



The representation of the head and shoulders of the woman being fanciful.

Particular description of goods.—High-Grade Cigars.

Claims use since and including the year 1909.

Ser. No. 115,033. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WAPLES-PLATTER GROCER COMPANY, Denison, Tex. Filed Jan. 7, 1919.



Particular description of goods.—Coffee.

Claims use since 1917.

Ser. No. 115,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANASTASIOS TRIANTAFILAKOS, New York, N. Y. Filed Jan. 14, 1919.

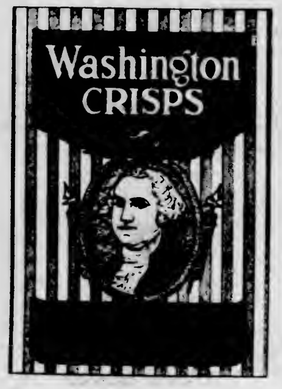


The rectangular figure is lined for blue.

Particular description of goods.—Coffee.

Claims use since Aug. 18, 1914.

Ser. No. 115,743. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CEREAL MILLS, LTD., Quincy, Ill. Filed Feb. 10, 1919.



In the drawing the horizontal and vertical hatching represent, respectively, the blue and red coloring of the mark.

Particular description of goods.—Cereal Breakfast Foods, Particularly Corn Flakes.

Claims use since March, 1911.

Ser. No. 118,540. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DUNBAR DROP FORGE COMPANY, Chicago, Ill. Filed May 16, 1919.



Particular description of goods.—Ferrous and Non-Ferrous Metal Castings and Metal Forgings.
Claims use since Dec. 31, 1918.

Ser. No. 119,888. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAMMER & Co., San Francisco, Calif. Filed June 24, 1919.

MARINA

Particular description of goods.—Canned Sardines, Salad-Oil, Olive-Oil, Canned and Dried Fruits.
Claims use since 1918.

Ser. No. 121,021. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. RUPRECHT, St. Louis, Mo. Filed July 28, 1919.

CHLOROXIDE

Particular description of goods.—Antiseptic and Germicidal Tablets.
Claims use since May 22, 1919.

Ser. No. 122,490. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MICHAEL T. MALLON, Nashville, Tenn. Filed Sept. 9, 1919.



The words "Wood Gloss" is hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Polishing Material for Automobile-Bodies, Furniture, and Pianos.
Claims use since Feb. 1, 1918.

Ser. No. 124,294. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE COLUMBIA MOTORS COMPANY, Detroit, Mich. Filed Oct. 29, 1919. Under ten-year proviso.



Particular description of goods.—Motor-Vehicles—Namely, Automobiles or Motor-Cars, Motor-Trucks, and Trailers.
Claims use since about July 1, 1894.

Ser. No. 125,415. (CLASS 39. CLOTHING.) NANCY VICTORINE ARMSTRONG, New York, N. Y. Filed Nov. 29, 1919.



Particular description of goods.—Children's and Infants' Outdoor Overall Union-Suits.
Claims use since Oct. 15, 1919.

Ser. No. 125,599. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Dec. 5, 1919.



Particular description of goods.—Candy.
Claims use since Oct. 26, 1919.

Ser. No. 125,602. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Dec. 5, 1919.



Particular description of goods.—Candy.
Claims use since Oct. 26, 1919.

Ser. No. 125,651. (CLASS 39. CLOTHING.) CUPID UNDERWEAR COMPANY, INC., Walden, N. Y. Filed Dec. 6, 1919.



No claim is made to the exclusive use of the word "Silk" apart from the mark shown in the drawing.
Particular description of goods.—Underwear Made of Woven Silk Material, Including Drawers, Chemises, Combination-Suits for Women and Misses.
Claims use since Oct. 20, 1919.

Ser. No. 126,760. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HARRY E. CROSS, Rockton, Ill. Filed Jan. 3, 1920.

WHIZ BANG

Particular description of goods.—Pleasure Motor-Cars.
Claims use since August, 1919.

Ser. No. 126,761. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HARRY E. CROSS, Rockton, Ill. Filed Jan. 3, 1920.

AMERICAN SPIDER

Consisting of the words "American Spider" shown in accompanying drawing.
Particular description of goods.—Pleasure Motor-Cars.
Claims use since August, 1919.

Ser. No. 126,827. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE STANDARD TIRE COMPANY, Willoughby, Ohio. Filed Jan. 5, 1920.

TIGER-FOOT

Particular description of goods.—Rubber Vehicle-Tires.
Claims use since Sept. 15, 1919.

Ser. No. 127,766. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIUS E. MUGGE, San Antonio, Tex. Filed Jan. 30, 1920.



The lining shown within the inner circle comprising part of the applicants' mark is intended as a background merely and not to indicate any particular coloration. No claim is made to the use of the words "Cow Feed" or the representation of a cow's head apart from the mark shown by the drawing.
Particular description of goods.—Cow Feed.
Claims use since Jan. 15, 1920.

Ser. No. 128,505. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Feb. 17, 1920.

CHAMOISTYN

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.
Claims use since Jan. 15, 1920.

Ser. No. 128,556. (CLASS 12. CONSTRUCTION MATERIALS.) THE NATIONAL ASBESTOS MFG. CO., Jersey City, N. J. Filed Feb. 18, 1920.



Particular description of goods.—Shingles and Slates Made of Asbestos and Cement.
Claims use since September, 1917.

Ser. No. 128,767. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EAGLE ROLLER MILL CO., New Ulm, Minn. Filed Feb. 24, 1920.

SURPRISE

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 9, 1872.

Ser. No. 128,813. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUDOLPH JOHN ARATA, Los Angeles, Calif. Filed Feb. 24, 1920.

COLSON'S
NOURISHINE

No claim being made to the name "Colson's" apart from the mark shown.
Particular description of goods.—Hair-Restorer.
Claims use since June 24, 1905.

Ser. No. 128,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. S. GRIFFITH, Chattanooga, Tenn. Filed Feb. 27, 1920.

Griffith's
POULTRY REMEDIES

No claim being made to the words "Poultry Remedies." The display of the surname "Griffith's" in the accompanying drawing is a facsimile of applicant's signature.
Particular description of goods.—Poultry Compound for Cholera, Roup, and Sore Head.
Claims use since Jan. 15, 1920.

Ser. No. 128,986. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1920.

KIMONETTE

Particular description of goods.—Plain White, Dyed, or Printed Cotton Piece Goods.
Claims use since about Jan. 20, 1920.

Ser. No. 129,057. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT FALLS DAIRY PRODUCTS COMPANY, Great Falls, Mont. Filed Mar. 1, 1920.

BANKWET

Particular description of goods.—Dairy Products—Namely, Milk.
Claims use since Feb. 6, 1920.

Ser. No. 129,432. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THRIFT STORES, INC., Springfield, Mass. Filed Mar. 8, 1920.

PINK-PAK

Particular description of goods.—Salted Nuts, Nuts in Their Natural State, and Candy.
Claims use since at least Feb. 15, 1920.

Ser. No. 129,985. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NUCOA BUTTER COMPANY, New York, N. Y. Filed Mar. 20, 1920.

ZERO

Particular description of goods.—Ice-Creams and Frosen Desserts.
Claims use since Feb. 25, 1920.

Ser. No. 130,133. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRENEAU-NELSON COMPANY, INC., New York, N. Y. Filed Mar. 24, 1920.

SALTAIR

Particular description of goods.—Cloth in the Piece for Making Summer Wearing-Apparel for Men, Women, and Children.
Claims use since Jan. 1, 1920.

Ser. No. 131,611. (CLASS 39. CLOTHING.) THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y. Filed Apr. 24, 1920.



The lining on the drawing merely representing shading.
Particular description of goods.—Bathing-Caps, Bathing-Shoes, and Bathing-Suits, Caps, Collars and Cuffs, Corsets, Dresses in One and Two Piece Garments; Gloves Made of Silk, Leather, and Cotton; Hats for Men, Women, and Children; Hosiery and Underwear in One and Two Piece Garments for Men, Women, and Children; Infants' Wear in One, Two, and Three Piece Garments and Bonnets; Kimonos; Neckwear—viz., Ties, Cravats, and Scarfs; Overalls, Pajamas, Raincoats; Leather, Rubber, and Fabric Shoes for Men, Women, and Children; Dress and Negligée Shirts, Skirts; Uniforms, and Athletic Clothing in One, Two, and Three Piece Garments.
Claims use since Jan. 16, 1920.

Ser. No. 131,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y. Filed Apr. 24, 1920.



Particular description of goods.—Anilin Colors and Dyes, Dentifrices, Tooth Paste and Powder, Perfumes, Disinfectants, and Insect-Exterminators.
Claims use since Jan. 16, 1920.

Ser. No. 132,178. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HIGHWAY IRON PRODUCTS CO., Ligonier, Ind. Filed May 8, 1920.

HI
HIPCO
CO
O

Particular description of goods.—Metal Culverts.
Claims use since Oct. 4, 1918.

Ser. No. 132,250. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y. Filed May 10, 1920.

"PEP"

Consists of the word "Pep."
Particular description of goods.—A Game Played with a Toy or Miniature Flying-Machine Shot from a Handle, Held by One of the Players, to or Toward a Player on the Opposite Side of the Game.
Claims use since Mar. 1, 1920.

Ser. No. 132,607. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) NATIONAL ENAMELING & STAMPING CO., Milwaukee, Wis., and Baltimore, Md. Filed May 18, 1920.

NESCO

The background within the diamond figure being of a red color.
Particular description of goods.—Oil-Stoves.
Claims use since about Mar. 1, 1905.

Ser. No. 132,640. (CLASS 33. GLASSWARE.) IMPERIAL GLASS COMPANY, Bellaire, Ohio. Filed May 19, 1920.

IMPERIAL

Particular description of goods.—Glassware of the Character Commonly Termed Table-Glassware—Namely, Tumblers, Stemware, Vases, Plates, Jugs, Candlesticks, Covered Dishes, Open Dishes, Bottles, Bowls, and Similar Articles; Also Glassware Used for Lighting Purposes—Namely, Gas and Electric Shades, Globes, Bowls, and Reflectors.
Claims use since Jan. 12, 1914.

Ser. No. 132,822. (CLASS 10. FERTILIZERS.) SOCIÉTÉ D'ETUDES CHIMIQUES POUR L'INDUSTRIE, Geneva, Switzerland. Filed May 22, 1920.

"SUPER-AZOTE"

No claim is made to the exclusive use of the word "Azote" excepting as associated with the word "Super," as shown in the drawing.
Particular description of goods—Fertilizer.
Claims use since Oct. 10, 1919.

Ser. No. 132,887. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SANDOW MOTOR TRUCK CO., Chicago, Ill. Filed May 24, 1920.

SANDOW

Particular description of goods.—Motor-Trucks and Automobiles.
Claims use since about the early part of 1912.

Ser. No. 132,962. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VON BREMEN, ASCHE & CO., New York, N. Y. Filed May 25, 1920.

LA SUPERBA

Particular description of goods.—Sardines and Olive-Oil.
Claims use since July, 1909.

Ser. No. 133,766. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DE-LITE MANUFACTURING COMPANY, Boston, Mass. Filed June 16, 1920.

DE-LITE

Particular description of goods.—A Polishing Material—Namely, an Auto-Polish.
Claims use since Feb. 1, 1918.

Ser. No. 134,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAMILLE PEPIN, Paris, France. Filed June 26, 1920.

VOXOL

Particular description of goods.—A Pharmaceutical Preparation for Relieving Affections of the Throat.
Claims use since Jan. 1, 1919.

Ser. No. 134,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM F. MARSHALL, Marion, Ind. Filed June 28, 1920.



The pictures shown on the drawing forming a part of this trade-mark are fanciful. No claim is made to the exclusive use of the words "Money Back" apart from the mark shown.

Particular description of goods.—Preparation for Dandruff, Relieving Itching of the Scalp, and Eczema, Stopping Falling Hair, and Promoting Growth of the Hair.

Claims use since June 17, 1920.

Ser. No. 134,516. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD M. MCARTHUR & CO., LIMITED, Liverpool, England. Filed July 2, 1920.

MAXYNTAN

Particular description of goods.—Tanning Materials Produced from Basis Derived from Coal-Tar.

Claims use since Jan. 9, 1919.

Ser. No. 134,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POULTRY PRODUCERS OF CENTRAL CALIFORNIA, INC., San Francisco, Calif. Filed July 8, 1920.



No claim is made to the exclusive use of the word "Eggs" apart from the mark shown in the drawing. No claim is made to the exclusive use of the word "Nulaid."

Particular description of goods.—Eggs.

Claims use since July, 1919.

Ser. No. 135,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed July 22, 1920.



Particular description of goods.—Wheat-Flour.

Claims use since July 27, 1911.

Ser. No. 135,433. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PIEDMONT MILLS, INC., Lynchburg, Va. Filed July 26, 1920.



The conventional lining is for the color red.

Particular description of goods.—Wheat-Flour.

Claims use since 1910.

Ser. No. 135,782. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DULTMEIER MANUFACTURING COMPANY, Manning, Iowa. Filed Aug. 4, 1920.

JIFFEY

Particular description of goods.—Wagon-Hounds.

Claims use since Apr. 9, 1919.

Ser. No. 135,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed Aug. 9, 1920.



No claim is made to the words "Clean and Good" apart from the mark.

Particular description of goods.—Wheat-Flour, Graham Flour, Whole-Wheat Flour, White Cornmeal, Yellow Cornmeal, Health-Bran.

Claims use since January, 1917.

Ser. No. 136,319. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) SURF MANUFACTURING CO., Milwaukee, Wis. Filed Aug. 20, 1920.



Consists of the representation of the surf and the word "Surf," as shown in the drawing.

Particular description of goods.—Clothes-Washing Machines.

Claims use since Aug. 6, 1919.

Ser. No. 136,582. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CENTRAL TALKING MACHINE SHOP, (INC.), New York, N. Y. Filed Aug. 28, 1920.

"MEWSIKINS"

Consisting of the word "Mewsikins."

Particular description of goods.—Toys—Namely, Small Mechanical Figures Designed for Use with Automatic Pianos.

Claims use since Aug. 17, 1920.

Ser. No. 136,719. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. S. PAYNE INC., North Bennington, Vt. Filed Sept. 1, 1920.



No claim is made to the words "Trade Mark."

Particular description of goods.—Doll Furniture—Namely, Toy Dressers, Dresser-Benches, Bureaus, Day-Beds, Dining-Tables, Library-Tables, Chiffoniers, China-Closets, and Chairs.

Claims use since about Feb. 15, 1920.

Ser. No. 136,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL FOOD PRODUCTS COMPANY, San Francisco, Calif. Filed Sept. 1, 1920.

EGG-CONOMY

Particular description of goods.—Dehydrated Food Products—Namely, Egg-Albumen, Egg-Yolk, and Whole Eggs.

Claims use since July 8, 1920.

Ser. No. 136,751. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed Sept. 2, 1920.



Applicant makes no claim to the word "Faultless" apart from the mark as shown in the drawing.

Particular description of goods.—Rubber Toys—Namely, Rubber Dolls, Rubber Toy Balloons, Rubber Animals, and Rubber Balls.

Claims use since July 19, 1920.

Ser. No. 137,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CADMUS PRODUCTS COMPANY, Bayonne, N. J. Filed Sept. 11, 1920.

"Ferbo"

Particular description of goods.—Flavoring Extracts for Oleomargarin, Nut-Butters, Lard, Fats, Cotton-Seed Oil, Edible Oils, Milk-Fats, Cake and Bread Doughs, Candy, Pastry, and Shortenings of All Kinds.

Claims use since Apr. 20, 1920.

Ser. No. 137,124. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE F. HINRICHS, INCORPORATED, New York, N. Y. Filed Sept. 13, 1920.

ESCORT

Particular description of goods.—Eggs, Butter, and Live and Dressed Poultry.

Claims use since Aug. 1, 1920.

Ser. No. 137,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FANNIE FRAZIER, Chicago, Ill. Filed Sept. 22, 1920.

Mrs Fannie Frazier.

The name appearing in the drawing being a facsimile of the signature of the applicant.

Particular description of goods.—A Medicine to be Used as a Uterine Sedative.

Claims use since May 5, 1919.

Ser. No. 137,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOERICKE & RUNYON CO., San Francisco and Oakland, Calif. Filed Sept. 24, 1920.

NEPHTOL

Particular description of goods.—Home Medicines for Diseases of the Kidneys and Bladder.

Claims use since 1900.

Ser. No. 137,622. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH MAURO, Rochester, N. Y. Filed Sept. 25, 1920.

VITRO-LAY

Particular description of goods.—A Liquid Preparation for Smoothing and Dressing the Hair and Also Beneficial as a Scalp-Tonic.

Claims use since Aug. 15, 1920.

Ser. No. 137,721. (CLASS 43. THREAD AND YARN.) J. E. BARBOUR COMPANY, Paterson, N. J. Filed Sept. 29, 1920.

IRISH



FLAX

No claim being made to the words "Irish Flax" apart from the mark shown.

Particular description of goods.—Yarns.

Claims use since March, 1912.

Ser. No. 137,978. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAN VLEET-MANSFIELD DRUG CO., Memphis, Tenn. Filed Oct. 5, 1920.



In the drawing the word "Plantation" and the central panel of the design are lined for red, indicating like coloration. The other lining appearing on the drawing is merely to represent shading only.

Particular description of goods.—An Antiseptic.

Claims use since Jan. 1, 1895.

Ser. No. 138,118. (CLASS 12. CONSTRUCTION MATERIALS.) JOSEPH A. BIRKHOLZ, Orange, N. J. Filed Oct. 9, 1920.

ARMOBOARD

Particular description of goods—Building Wall and Partition Panels Made of Concrete, Artificial Stone, and Similar Compositions.

Claims use since July 7, 1920.

Ser. No. 138,204. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BELLINGHAM CHEMICAL CO., Bellingham, Wash. Filed Oct. 12, 1920.

J-O-T-O

JO-TO

Particular description of goods.—A Composition of Matter Comprising a Definite Mixture of Dry Medicinal Powders, More Particularly for the Relief of Pains in the Stomach, for Which Purpose it is to be Taken Internally.

Claims use since Oct. 4, 1920.

Ser. No. 138,208. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HERSEY P. BARNES, Philadelphia, Pa. Filed Oct. 12, 1920.



Particular description of goods.—Soap Flakes.

Claims use since June, 1919.

Ser. No. 138,271. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN MULTIGRAPH SALES CO., Cleveland, Ohio. Filed Oct. 14, 1920.

MULTIGRAPH

Particular description of goods.—Printing-Machines and Parts Thereof.

Claims use since about September, 1904.

Ser. No. 138,274. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL AHLERS, New York, N. Y. Filed Oct. 14, 1920.

STERIL-SEAL

Particular description of goods.—Eggs.

Claims use since Sept. 29, 1920.

Ser. No. 138,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LENITONE LABORATORIES COMPANY, Cleveland, Ohio. Filed Oct. 14, 1920.

LENITONE

Particular description of goods.—Foods for Infants, Invalids, and Convalescents.

Claims use since Sept. 23, 1920.

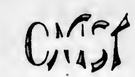
Ser. No. 138,318. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CATHARINE H. HUSBAND, Philadelphia, Pa. Filed Oct. 15, 1920. Under ten-year proviso.



Particular description of goods.—Bottled Magnesia.

Claims use since 1837.

Ser. No. 138,332. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EUGENE B. NICOLAIT, Brooklyn, N. Y. Filed Oct. 15, 1920.



Particular description of goods.—Bakers' Products—viz., Bread.

Claims use since about Sept. 21, 1920.

Ser. No. 138,423. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) AMERICAN TRANSOCEANIC TRADERS, INC., New York, N. Y. Filed Oct. 18, 1920.



Particular description of goods.—Matches.

Claims use since June 1, 1920.

Ser. No. 138,479. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES H. EDELEN, Oakland, Calif. Filed Oct. 19, 1920.

CALPRO

Particular description of goods.—Liquid Ant-Exterminators.

Claims use since about Sept. 30, 1919.

Ser. No. 138,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. L. SESSUM, Memphis, Tenn. Filed Oct. 23, 1920.

POK-A-DOT



Particular description of goods.—Stock Feed.

Claims use since Sept. 1, 1920.

Ser. No. 138,795. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio. Filed Oct. 25, 1920.

HOMAKER

Particular description of goods.—Coal, Gas, and Wood Furnaces.

Claims use since Sept. 11, 1920.

Ser. No. 138,850. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DRY OIL PRODUCTS, LTD., London, England, and New York and Trout Creek, N. Y. Filed Oct. 27, 1920.

DACKO

Particular description of goods.—Dry Pulverulent Mixtures Containing Oils or Fats, to be Employed as a Shortening Agent in Cooking.

Claims use since Sept. 1, 1920.

Ser. No. 139,108. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HERSEY P. BARNES, Philadelphia, Pa. Filed Nov. 3, 1920.

Insto

Particular description of goods.—Soap Flakes.

Claims use since June, 1919.

Ser. No. 139,259. (CLASS 12. CONSTRUCTION MATERIALS.) FLEX-OR-CRETE CORPORATION, Boston, Mass. Filed Nov. 6, 1920.

FLEX-OR-CRETE

Particular description of goods.—Autosolidifying Structural Compositions Composed of Cement, Fiber, and other Ingredients.

Claims use since the latter part of 1918.

Ser. No. 139,296. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NULOMOLINE COMPANY, New York, N. Y. Filed Nov. 6, 1920.

HONYO

Particular description of goods.—Cane-Syrup and Molasses for Food Purposes; Glucose, Grain-Syrup, and Refiner's Syrup for Food Purposes; Honey, and Invert-Sugar.

Claims use since Oct. 25, 1920.

Ser. No. 139,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEERLESS FOOD MANUFACTURING CO., Pittsburgh, Pa. Filed Nov. 6, 1920.

PEER-KO

Comprises the name "Peer-Ko."
Particular description of goods.—Vinegar, Sauer-Kraut, Pickles, Fruit Butters, Jams, Jellies, Fruit Preserves.
Claims use since Aug. 1, 1920.

Ser. No. 139,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TINCTORIAL COMPANY, Denver, Colo. Filed Nov. 6, 1920.

CHAMPION

Particular description of goods.—A Dye for Changing the Color of Leather to a Deep Black.
Claims use since June 11, 1920.

Ser. No. 139,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTH AMERICAN DYE CORPORATION, Mount Vernon, N. Y. Filed Nov. 8, 1920.



Apart from the mark as shown in the drawing no claim is made to the words "Colorantes, Dyes, Marca de Fabrica Registrada" and the word "Negro," being the equivalent in Spanish of the English word "Black."
Particular description of goods.—Dyes.
Claims use since Dec. 17, 1917.

Ser. No. 139,572. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE HOUBIGANT, Paris, France. Filed Nov. 12, 1920.

PARFUM
INCONNU

No claim being made to the word "Parfum" apart from the mark shown in the drawing.
Particular description of goods.—Perfumes, Toilet Waters, Sachet, and Sachet-Powders.
Claims use since 1910.

Ser. No. 139,573. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE HOUBIGANT, Paris, France. Filed Nov. 12, 1920.



Particular description of goods.—Perfumes, Toilet Waters, Sachet, and Sachet-Powders.
Claims use since 1906.

Ser. No. 139,574. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE HOUBIGANT, Paris, France. Filed Nov. 12, 1920.

Premier mai

Particular description of goods.—Perfumes, Toilet Waters, Face-Powders, Liquid Lotion for the Skin, Sachets, Sachet-Powders, and Brilliantine.
Claims use since 1908.

Ser. No. 139,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE HOUBIGANT, Paris, France. Filed Nov. 12, 1920.

MON
BOUDOIR

Particular description of goods.—Perfumes, Toilet Waters, Sachets, and Sachet-Powders.
Claims use since 1919.

Ser. No. 139,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTHONY J. TRASSO, New York, N. Y. Filed Nov. 13, 1920.

SANOTRIX

Particular description of goods.—Medicinal Preparation for the Treatment of the Hair and Scalp.
Claims use since Oct. 15, 1920.

Ser. No. 140,088. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN FRUIT PRODUCTS COMPANY, LIMITED, Honolulu, Hawaii. Filed Nov. 23, 1920.



Particular description of goods.—Fruit Jams, Jellies, and Preserves, Dried Bananas and Banana-Flour, Canned Pineapples, and Canned Fruits and Vegetables.
Claims use since June 1, 1919.

Ser. No. 140,070. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Bayonne, N. J. Filed Nov. 23, 1920.

Prymol

Particular description of goods.—Liquid Fuel Oil.
Claims use since Oct. 30, 1920.

Ser. No. 140,105. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 24, 1920.

"Creole"

Particular description of goods.—Marble Cut to Size, Finished Marble, and Cut Stone.
Claims use since 1885.

Ser. No. 140,134. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE LOURNAY, INC., New York, N. Y. Filed Nov. 24, 1920.

L' Ile d' Amour

Consisting of the words "L'Ile d'Amour."
Particular description of goods.—Toilet Preparations—viz., Face-Powder.
Claims use since Oct. 20, 1920.

Ser. No. 140,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE LOURNAY, INC., New York, N. Y. Filed Nov. 24, 1920.

Lournay

Consisting of the word "Lournay."
Particular description of goods.—Toilet Preparations—viz., Face-Powder.
Claims use since Oct. 20, 1920.

Ser. No. 140,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE LOURNAY, INC., New York, N. Y. Filed Nov. 24, 1920.

Qui Sait?

Consisting of the words "Qui Sait?"
Particular description of goods.—Toilet Preparations—viz., Face-Powder.
Claims use since Oct. 20, 1920.

Ser. No. 140,142. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE LOURNAY, INC., New York, N. Y. Filed Nov. 24, 1920.

Fleur Vivant

Consisting of the words "Fleur Vivant."
Particular description of goods.—Toilet Preparations—viz., Face-Powder.
Claims use since Oct. 20, 1920.

Ser. No. 140,143. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE LOURNAY, INC., New York, N. Y. Filed Nov. 24, 1920.

Fleur de Mignon

Consisting of the words "Fleur de Mignon."
Particular description of goods.—Toilet Preparations—viz., Face-Powder.
Claims use since Oct. 20, 1920.

Ser. No. 140,174. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GLANDEX COMPANY, INC., New York, N. Y. Filed Nov. 26, 1920.

DEX

Particular description of goods.—A Laxative Tablet.
Claims use since Aug. 17, 1920.

Ser. No. 140,223. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Nov. 26, 1920.

MYRTIS

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonics, Hair-Oils, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorizing Preparations, and Sachet-Powders.
Claims use since Nov. 8, 1920.

Ser. No. 140,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Nov. 27, 1920.

SLIKUM

Particular description of goods.—Hair-Dressing Preparations.
Claims use since on or about Apr. 1, 1920.

Ser. No. 140,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK STEARNS & CO., Detroit, Mich. Filed Nov. 29, 1920.

ESTEROL

Particular description of goods.—Medicines for Use in Intestinal Diarrhea, Dysentery, Colic, Dysmenorrhea, and in Conditions Requiring a Non-Narcotic, Anti-Spasmodic, and Sedative.
Claims use since Nov. 15, 1920.

Ser. No. 140,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK STEARNS & CO., Detroit, Mich. Filed Nov. 29, 1920.

Sadira

Particular description of goods.—Perfumes, Toilet Waters, and Face-Powders.
Claims use since Nov. 19, 1920.

Ser. No. 140,391. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN FRANCIS LOGAN, San Francisco, Calif. Filed Nov. 29, 1920.

FADE-A-WAY

Particular description of goods—Pile Remedy.
Claims use since Nov. 6, 1920.

Ser. No. 140,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLAPP PRODUCTS COMPANY, Boston, Mass. Filed Dec. 1, 1920.

TORON

Particular description of goods.—Sulfur-Terpene Compounds and Solutions.
Claims use since on or about Feb. 21, 1920.

Ser. No. 140,502. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 1, 1920.



Particular description of goods.—Dyestuffs, Intermediates, and Certified Food-Colors.
Claims use since June 25, 1920.

Ser. No. 140,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM B. PRICE, Poughkeepsie, N. Y. Filed Dec. 1, 1920.

AQUANON

Consists of the word "Aquanon."
Particular description of goods.—A Waterproofing Composition for Fabrics of All Kinds.
Claims use since 1913.

Ser. No. 140,505. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHTER BROS., Hartford, Conn. Filed Dec. 1, 1920.

TANGO DUST

Particular description of goods.—Insecticides.
Claims use since Jan. 1, 1920.

Ser. No. 140,540. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HODGE W. NORMAN, Phoenix, Ariz. Filed Dec. 2, 1920.

"AEROTONE"

Particular description of goods.—A Liquid Medicinal Preparation for the Treatment of Tuberculosis.
Claims use since Sept. 18, 1920.

Ser. No. 140,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTELLE B. FINLAYSON, Ossining, N. Y. Filed Dec. 3, 1920.

Creo-Belle

Particular description of goods.—Liquid Face-Powder.
Claims use since Oct. 22, 1920.

Ser. No. 140,571. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., New York, N. Y. Filed Dec. 3, 1920.

PHYLLOSAN

Particular description of goods.—A Preparation of Chlorophyl in Tablet Form.
Claims use since Oct. 22, 1920.

Ser. No. 140,587. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOSELLA FILE, Winston-Salem, N. C. Filed Dec. 4, 1920.

ELECTRO MAGIC

Particular description of goods.—Hair-Grower.
Claims use since Oct. 18, 1914.

Ser. No. 140,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH P. KAYATTA, Providence, R. I. Filed Dec. 4, 1920.

KAYTONIK

Particular description of goods.—A Medicinal Preparation Taken as a Tonic for Building Up the Human System.
Claims use since Jan. 1, 1920.

Ser. No. 140,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN SIEVERT, Eveleth, Minn. Filed Dec. 4, 1920.

OKO

Particular description of goods.—A Salve Prepared for Blood-Poison and Skin Diseases.
Claims use since Sept. 15, 1920.

Ser. No. 140,620. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. B. CHEMICAL COMPANY, Newark, N. J. Filed Dec. 4 1920.

LIQUID LIFE

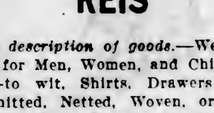
Particular description of goods.—Antitoxin for White Corpuscles of the Blood.
Claims use since 1894.

Ser. No. 140,719. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE GRAIN & MILLING CO., Los Angeles, Calif. Filed Dec. 7, 1920.

ARCO IRIS

Particular description of goods.—Whole-Wheat Flour, Rye-Flour, Rolled Oats, Steel-Cut Oats, Farina Cream of Wheat, Graham Flour, Confectionery-Flour, Wheat-Flour, Pancake-Flour, Broken Wheat, Wheat Fragments; Edible Bran—Health-Bran; Nixtamel, a Cornmeal; Cornmeal, Refined Vegetable Oil for Cooking and Salads, and a Compound Grease, a Vegetable for Food Purposes, Purely Vegetable.
Claims use since Sept. 1, 1919.

Ser. No. 140,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COGER, TUCKER AND CHENEY, INC., Corning, N. Y. Filed Dec. 11, 1920.



Particular description of goods.—Self-Rising Pancake-Flour.
Claims use since Aug. 15, 1909.

Ser. No. 141,017. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHAS. NIEDNER'S SONS COMPANY, Malden, Mass. Filed Dec. 13, 1920.



Particular description of goods.—Fabric Fire-Hose.
Claims use since 1912.

Ser. No. 141,088. (CLASS 12. CONSTRUCTION MATERIALS.) THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y. Filed Dec. 14, 1920.

ALLIGATOR

Particular description of goods.—Shingles, Roofing-Tile, Roofing-Slabs, Composition Roofing, and Roofing-Cement.
Claims use since Jan. 1, 1912.

Ser. No. 141,129. (CLASS 39. CLOTHING.) ROBERT REIS & CO., New York, N. Y. Filed Dec. 15, 1920. Under ten-year proviso.

REIS

Particular description of goods.—Wearing-Apparel and Furnishings for Men, Women, and Children, as Follows: Underwear—to wit, Shirts, Drawers and Union-Suits Made of Knitted, Netted, Woven, or Textile Fabrics; Hosiery, Bathing-Suits, Sweaters, Cardigan Jackets, Sport-Coats, Mackinaws, Fabric Gloves, Collars, and Outer Shirts.
Claims use since 1888.

Ser. No. 141,276. (CLASS 39. CLOTHING.) THE PETER PAN CO., New York, N. Y. Filed Dec. 18, 1920.

PEGGY PAN

Consists of the words "Peggy Pan."
Particular description of goods.—Children's Blouses and Bloomers.
Claims use since May 15, 1920.

Ser. No. 141,327. (CLASS 15. OILS AND GREASES.) PHINNY BROTHERS COMPANY, Oil City, Pa. Filed Dec. 20, 1920.

Quaker State

Particular description of goods.—Lubricating Oils and Greases, Fuel and Illuminating Oils, Road-Oils, Blended and Straight Refined Gasolene, and Wax—Namely, Paraffin Refined from Paraffin Crude Petroleum.
Claims use since the year 1914.

Ser. No. 141,405. (CLASS 39. CLOTHING.) AMERICAN DRY GOODS COMPANY, OF NEW YORK, New York, N. Y. Filed Dec. 22, 1920.

Elite

Particular description of goods.—Men's, Ladies', and Children's Hosiery.
Claims use since May, 1917.

Ser. No. 141,407. (CLASS 39. CLOTHING.) AMERICAN DRY GOODS COMPANY, OF NEW YORK, New York, N. Y. Filed Dec. 22, 1920.

Kitty Bess

Particular description of goods.—Silk Stockings.
Claims use since May, 1916.

Ser. No. 141,466. (CLASS 39. CLOTHING.) MEYERSON-LEVINE & COMPANY, New York, N. Y. Filed Dec. 23, 1920.



Exclusive right to the words "Brand" and "Cravats" apart from the mark as shown disclaimed.
Particular description of goods.—Cravats and Neckties.
Claims use since July 1, 1917.

Ser. No. 141,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y. Filed Dec. 23, 1920.

TIJUCA

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 9, 1919.

Ser. No. 141,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PORTLAND FLOURING MILLS CO., Portland, Oreg. Filed Dec. 24, 1920.

Pollyanna

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since July, 1920.

Ser. No. 141,543. (CLASS 12. CONSTRUCTION MATERIALS.) THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y. Filed Dec. 27, 1920.

DOUBLETITE

Particular description of goods.—Shingles, Roofing-Tile, Roofing-Slabs, Composition Roofing, and Roofing-Cement.
Claims use since Dec. 1, 1920.

Ser. No. 141,642. (CLASS 39. CLOTHING.) H. S. MORAND, Cincinnati, Ohio. Filed Dec. 29, 1920.



Particular description of goods.—Hats for Men and Women.
Claims use since Nov. 1, 1910.

Ser. No. 141,673. (CLASS 39. CLOTHING.) EMPORIUM-WORLD MILLINERY CO., Chicago, Ill. Filed Dec. 30, 1920.

Marvelo

Particular description of goods.—Hats for Female Wear.
Claims use since May 14, 1920.

Ser. No. 141,674. (CLASS 39. CLOTHING.) EMPORIUM-WORLD MILLINERY CO., Chicago, Ill. Filed Dec. 30, 1920.

LADY EMCO

Particular description of goods.—Hats for Female Wear.
Claims use since Sept. 13, 1913.

Ser. No. 142,055. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill. Filed Jan. 11, 1921.

VITOSE

Particular description of goods.—Corn-Syrup for Food Purposes.
Claims use since Oct. 4, 1920.

Ser. No. 142,072. (CLASS 39. CLOTHING.) LOUIS HOLTZ & SONS, INC., Rochester, N. Y. Filed Jan. 11, 1921.



Particular description of goods.—Coats, Trousers, Vests, Overcoats, Ulsters, and Raincoat .
Claims use since 1885.

Ser. No. 142,111. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOEHR'S, Chicago, Ill. Filed Jan. 11, 1921.

ISIS

Particular description of goods.—Candy.
Claims use since November, 1919.

Ser. No. 142,141. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOODENUF MILLING & FEED CO., Minneapolis, Minn. Filed Jan. 12, 1921.



Particular description of goods.—Stock and Poultry Food.
Claims use since Dec. 31, 1920.

Ser. No. 142,152. (CLASS 39. CLOTHING.) KALAMAZOO CORSET COMPANY, Kalamazoo, Mich. Filed Jan. 12, 1921.

Ravenbone

Particular description of goods.—Corsets and Corset-Waists.
Claims use since Nov. 8, 1920.

Ser. No. 142,238. (CLASS 39. CLOTHING.) D. W. SHOYER & CO., New York, N. Y. Filed Jan. 13, 1921.

ACME

Particular description of goods.—Petticoats, Sweaters, Scarfs, Bathing-Suits, Bloomers, Cardigan Jackets, Caps, and Skirts.
Claims use since 1900.

Ser. No. 142,255. (CLASS 39. CLOTHING.) HAND KNIT HOSIERY CO., Sheboygan, Wis. Filed Jan. 14, 1921.

HIKER

Particular description of goods.—Worsted Khaki Hose and Worsted Khaki Sweaters for Boys.
Claims use since Feb. 16, 1920.

Ser. No. 142,325. (CLASS 39. CLOTHING.) COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Jan. 17, 1921.



Particular description of goods.—Men's and Children's Outer Garments Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, Smoking-Jackets, Automobile-Coats, Bath-Wraps, and Women's and Children's Outer Garments Consisting of Coats, Bath-Wraps, and Mackinaws.
Claims use since Oct. 30, 1920.

Ser. No. 142,347. (CLASS 39. CLOTHING.) HARVEY D. LEINBACH, Wyomissing, Pa. Filed Jan. 17, 1921.

BACH-LINE

Particular description of goods.—Hosiery.
Claims use since Jan. 5, 1921.

Ser. No. 142,350. (CLASS 39. CLOTHING.) D. D. METCALF, Greenville, Ala. Filed Jan. 17, 1921.



Comprises as its essential feature a rebus comprising the word "Met" and a picture of a calf's head, thereby indicating my name "Metcalf."

Particular description of goods.—Overalls, Jumpers, Coats, and Unionalls.

Claims use since August, 1920.

Ser. No. 142,499. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

Hyglo

Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.

Claims use since Dec. 15, 1920.

Ser. No. 142,500. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

LACQUÉ

Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.

Claims use since Dec. 15, 1920.

Ser. No. 142,501. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

Camisash

Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.

Claims use since Dec. 15, 1920.

Ser. No. 142,677. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE U. S. MOP COMPANY, Toledo, Ohio. Filed Jan. 22, 1921.



Particular description of goods.—Furniture and Automobile Polish.

Claims use since Oct. 1, 1920.

Ser. No. 142,699. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORA PAULLIN DALY, Mansfield, Ohio, assignor to Dime Cafeteria, Mansfield, Ohio, a Copartnership. Filed Jan. 24, 1921.



Particular description of goods.—Pastry, Canned Goods Consisting of White Cherries, Red Cherries, Peaches, Pears, and Plums; Canned Berries Consisting of Currant-Berries, Strawberries, Raspberries, Huckleberries, Blackberries, Gooseberries, and Elderberries; Canned Vegetables Consisting of Tomatoes, Corn, and Beans, and Canned Condiments Consisting of Chilli Sauce, Pimento Sauce, Sweet Pickles, Mixed Sweet Relish, Sour Pickles, Strawberry Jam, and Cherry Preserves.

Claims use since Jan. 11, 1921.

Ser. No. 142,779. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CROCKER-MCELWAIN COMPANY, Holyoke, Mass. Filed Jan. 26, 1921.

CERTIFICATE FLEX-O-LAY

Particular description of goods.—Resilient Printers' Blankets Made of Specially-Compounded Rubber and Used in the Process of Make-Ready for Printing.

Claims use since Jan. 19, 1921.

Ser. No. 142,956. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BOB-BETTY BELONGINGS, Carlsbad, Calif. Filed Jan. 31, 1921.



Particular description of goods.—Toys—Namely, Animals, Birds, Chickens, and Dolls Made of Rubber, Cloth, Hand Decorated or Colored, and Stuffed with Cotton; Christmas-Tree Decorations—Namely, a Stuffed Rubber Santa Claus.

Claims use since July 1, 1919.

Ser. No. 143,025. (CLASS 12. CONSTRUCTION MATERIALS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 31, 1921.

CORCO

Particular description of goods.—Sheet-Metal Poultry-Houses and Smokehouses of Portable Knockdown Form.

Claims use since about Jan. 15, 1916.

Ser. No. 143,032. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ANDRUS-SCOFIELD CO., Columbus, Ohio. Filed Feb. 1, 1921.

CAPITOL



Particular description of goods.—Coffee, Tea, Spices, Salted Peanuts, and Peanut-Butter.

Claims use since February, 1887.

Ser. No. 143,208. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHANDLESS & CO., INC., New York and Millbrook, N. Y. Filed Feb. 5, 1921.



Particular description of goods.—Bristles, Calfskins, Camel's Hair, Camel's Wool, Raw Cotton, Cowhides, Feathers, Fur-Skins, Goat's Hair, Goatskins, Goat's Wool, Hemp, Horsehair, Horsehides, Human Hair, Jute, Oxhides, Seeds, Sheepskins, Sheep's Wool, All in a Raw or Partly Prepared State.

Claims use since May, 1910.

Ser. No. 143,619. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) REVERE RUBBER COMPANY, Providence, R. I. Filed Feb. 15, 1921.

Revere

Particular description of goods.—Vehicle-Tires Made of Rubber.

Claims use since September, 1917.

Ser. No. 143,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Mrs. CHARLES SAINT, Kaplan, La. Filed Feb. 16, 1921.



No claim is made to the word "Rice" apart from the other features of the mark shown in the accompanying drawing.

Particular description of goods.—A Partly-Prepared Rice in Package Form.

Claims use since Jan. 1, 1921.

Ser. No. 143,738. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed Feb. 18, 1921.

Meadow-Gold

Particular description of goods.—Ice-Cream.

Claims use since July 20, 1920.

Ser. No. 143,746. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COOK-WELKER-HIRE CO., Fort Wayne, Ind. Filed Feb. 18, 1921.

- SWEET-PLUS -

Particular description of goods.—Assorted Hard Candies, Assorted Cream Candies, Chocolates, and Candy-Bar Goods.

Claims use since Jan. 29, 1921.

Ser. No. 143,887. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Feb. 21, 1921. Under ten-year proviso.

New England

The words "New England."

Particular description of goods.—Candy.

Claims use since 1892.

Ser. No. 143,975. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 24, 1921.

Dots

Particular description of goods.—Sugar for Use as a Food.
Claims use since Oct. 28, 1920.

Ser. No. 144,086. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIGHLAND APPLE COMPANY, Underwood, Wash. Filed Feb. 26, 1921.

FARM-MAID



The picture of a girl being fanciful.
Particular description of goods.—Apple-Butter.
Claims use since Dec. 1, 1920.

Ser. No. 144,298. (CLASS 38. PRINTS AND PUBLICATIONS.) RAYNOR, NICHOLAS & TRUESDELL, New York, N. Y. Filed Mar. 3, 1921.

The WALL STREET DIGEST

Particular description of goods.—A Weekly Publication.
Claims use since Jan. 20, 1921.

Ser. No. 144,447. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLISH MILLING COMPANY, Seymour, Ind. Filed Mar. 8, 1921.



No claim is made to the word "Flour" or the words "The World's Best" apart from the mark as shown.
Particular description of goods.—Wheat-Flour.
Claims use since Jan. 1, 1917.

Ser. No. 144,614. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 11, 1921.

Velderex

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 144,616. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 11, 1921.

Panvelaine

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 144,860. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HUDSON MOTOR SPECIALTIES COMPANY, Philadelphia, Pa. Filed Mar. 17, 1921.

FLEXO

Particular description of goods.—Frame Extension for Worm-Driven Trucks and Slip-Joint Propeller-Shafts Complemental Thereto.
Claims use since March, 1919.

Ser. No. 144,941. (CLASS 38. PRINTS AND PUBLICATIONS.) PRESSURE PROOF PISTON RING COMPANY, Boston, Mass. Filed Mar. 18, 1921.

PEPPER POT

Particular description of goods.—Monthly Periodical.
Claims use since Mar. 15, 1920.

Ser. No. 144,988. (CLASS 38. PRINTS AND PUBLICATIONS.) THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Mar. 19, 1921.

DENTAL COSMOS

Consisting of the words "Dental Cosmos."
Particular description of goods.—Monthly Publication.
Claims use since August, 1859.

Ser. No. 145,166. (CLASS 12. CONSTRUCTION MATERIALS.) IDEAL CEMENT STONE COMPANY, Omaha, Nebr. Filed Mar. 24, 1921.



Particular description of goods.—Cement Blocks.
Claims use since May, 1917.

Ser. No. 145,345. (CLASS 38. PRINTS AND PUBLICATIONS.) LORD & TAYLOR, New York, N. Y. Filed Mar. 28, 1921.

Jolly Times

Particular description of goods.—A Section of a Newspaper, Said Section Being Issued Weekly.
Claims use since Mar. 18, 1921.

Ser. No. 145,412. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PITCHFORK COMPANY, Dallas, Tex. Filed Mar. 29, 1921.

The PITCHFORK

Particular description of goods.—Monthly Publications.
Claims use since about 1908.

Ser. No. 145,487. (CLASS 38. PRINTS AND PUBLICATIONS.) WESCO, INC., Chicago, Ill. Filed Mar. 29, 1921.

BUSINESS CRUCIBLE

Consisting of the words "Business Crucible."
Particular description of goods.—Monthly Periodical.
Claims use since Nov. 10, 1920.

Ser. No. 145,566. (CLASS 38. PRINTS AND PUBLICATIONS.) THE KIRSCHENBAUM CORPORATION, Baltimore, Md. Filed Apr. 1, 1921.

Kirschenbaum Popular Models

Particular description of goods.—Publications Issued Monthly.
Claims use since Oct. 1, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 10, 1921.

142,226. CARTOONS. ALFRED G. ABLITZER, Brooklyn, N. Y.
Filed November 16, 1920. Serial No. 139,703. PUBLISHED JANUARY 11, 1921.

142,227. OIL-CUPS. ADVANCED PRODUCTS CORPORATION, Philadelphia, Pa.
Filed September 11, 1920. Serial No. 137,061. PUBLISHED JANUARY 11, 1921.

142,228. INFANTS' SHOES MADE IN WHOLE OR IN PART OF LEATHER. AMERICAN BABY SHOE CO., Haverhill, Mass.
Filed September 25, 1920. Serial No. 137,601. PUBLISHED JANUARY 11, 1921.

142,229. MAGAZINE PUBLISHED MONTHLY. AMERICAN FEDERATION OF LABOR, Washington, D. C.
Filed October 2, 1920. Serial No. 138,034. PUBLISHED JANUARY 11, 1921.

142,230. CERTAIN NAMED OILS AND GREASES. AMERICAN REFINING COMPANY, Boston, Mass.
Filed October 16, 1919. Serial No. 123,834. PUBLISHED JANUARY 25, 1921.

142,231. BOOTS, SHOES, AND SLIPPERS AND CERTAIN NAMED SHOE-FINDINGS. BALLY COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed April 9, 1920. Serial No. 130,877. PUBLISHED JANUARY 25, 1921.

142,232. BOOTS, SHOES, SLIPPERS, GAITERS, HEELS, LEGGINGS, PUTTEES, AND CERTAIN SHOE-FINDINGS. BALLY COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed April 10, 1920. Serial No. 130,945. PUBLISHED JANUARY 25, 1921.

142,233. THREADS AND YARNS. J. E. BARBOUR COMPANY, Paterson, N. J.
Filed September 21, 1920. Serial No. 137,403. PUBLISHED JANUARY 11, 1921.

142,234. THREADS AND YARNS. J. E. BARBOUR COMPANY, Paterson, N. J.
Filed September 21, 1920. Serial No. 137,404. PUBLISHED JANUARY 11, 1921.

142,235. CERTAIN NAMED MEDICINAL PREPARATION. COLEMAN BARDOS, Jr., New York, N. Y.
Filed October 19, 1920. Serial No. 138,467. PUBLISHED JANUARY 11, 1921.

142,236. CLEANING FLUID, WHICH PREPARATION IS A STAIN-REMOVER OF A CHEMICAL NATURE. MILDRED BATESON, Olympia, Wash.
Filed October 5, 1920. Serial No. 137,907. PUBLISHED JANUARY 11, 1921.

142,237. CERTAIN NAMED CONSTRUCTION MATERIALS. THE BEAVER COMPANY, Buffalo, N. Y.
Filed November 18, 1920. Serial No. 139,782. PUBLISHED FEBRUARY 15, 1921.

142,238. WHEAT-FLOUR. THE BENNETT MILLING CO., Grafton, Ohio.
Filed October 7, 1920. Serial No. 138,035. PUBLISHED JANUARY 11, 1921.

142,239. NEGLIGÉE SHIRTS AND PAJAMAS. BERKSHIRE SHIRT CO., New York, N. Y.
Filed October 21, 1919. Serial No. 124,040. PUBLISHED JANUARY 25, 1921.

142,240. SPRAYING COMPOUND. ARTHUR D. BLACKBURN, Cuba, Ohio.
Filed October 10, 1919. Serial No. 123,607. PUBLISHED JANUARY 18, 1921.

142,241. METALLIC TRANSMISSION-TOWERS, STEEL FORMS FOR CONCRETE CONSTRUCTION, AND FABRICATED STRUCTURAL STEEL. BLAW-KNOX COMPANY, Pittsburgh, Pa.
Filed July 8, 1920. Serial No. 134,694. PUBLISHED JANUARY 18, 1921.

142,242. METALLIC TRANSMISSION-TOWERS, STEEL FORMS FOR CONCRETE CONSTRUCTION, AND FABRICATED STRUCTURAL TEEL. BLAW-KNOX COMPANY, Pittsburgh, Pa.
Filed July 8, 1920. Serial No. 134,695. PUBLISHED JANUARY 18, 1921.

142,243. CANDY. BUHB, PFAFF & CO., Cincinnati, Ohio.
Filed April 3, 1920. Serial No. 130,572. PUBLISHED JANUARY 25, 1921.

142,244. WEEKLY PUBLICATION. BEN I. BUTLER, Fort Worth, Tex.
Filed October 25, 1920. Serial No. 138,751. PUBLISHED JANUARY 11, 1921.

142,245. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif.
Filed May 17, 1920. Serial No. 132,508. PUBLISHED JANUARY 18, 1921.

142,246. MONTHLY PUBLICATION. CALIFORNIA-OREGON POWER CO., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,542. PUBLISHED JANUARY 11, 1921.

142,247. DRY BATTERIES. THE CARBON PRODUCTS CO., Lancaster, Ohio.
Filed November 26, 1919. Serial No. 125,317. PUBLISHED JANUARY 25, 1921.

142,248. CERTAIN ARTICLES OF CLOTHING. CASE-FISCHER MANUFACTURING COMPANY, Parkersburg, W. Va.
Filed August 11, 1920. Serial No. 135,987. PUBLISHED JANUARY 11, 1921.

142,249. WHEAT-FLOUR. CISNEROS & CO. INC., New York, N. Y., and Rahway, N. J.
Filed October 19, 1920. Serial No. 138,478. PUBLISHED JANUARY 11, 1921.

142,250. BOOTS AND SHOES OF LEATHER OR CLOTH AND LEATHER. HENRY CORT COMPANY, Brockton, Mass.
Filed September 17, 1920. Serial No. 137,281. PUBLISHED JANUARY 11, 1921.

142,251. SHEET-PACKING AND GASKETS MADE OF VEGETABLE FIBER. CONSOLIDATED PACKING & SUPPLY CO., New York, N. Y.
Filed September 27, 1920. Serial No. 137,658. PUBLISHED JANUARY 11, 1921.

142,252. CERTAIN TOOLS AND MACHINERY FOR GARAGE USE. DANIELSON TOOL COMPANY, Wausau, Wis.
Filed March 22, 1920. Serial No. 130,025. PUBLISHED JANUARY 25, 1921.

142,253. AUTOMOBILES. DAVIS CAR COMPANY, Seattle, Wash.
Filed July 8, 1920. Serial No. 134,700. PUBLISHED JANUARY 18, 1921.

142,254. CERTAIN NAMED TANKS, MOUNTING-FRAMES FOR THE TANKS, AND BUCKET-BOXES. THE DAVIS WELDING & MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed April 9, 1920. Serial No. 130,883. PUBLISHED JANUARY 25, 1921.

142,255. VARNISHES AND LACQUERS. DEUTSCHE CONSERVIERUNGSGESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Marienfelde, near Berlin, Germany.
Filed September 15, 1919. Serial No. 122,689. PUBLISHED JANUARY 25, 1921.

142,256. LADIES' SHIRTWAISTS. DIANA WAIST CO., INC., New York, N. Y.
Filed July 26, 1917. Serial No. 105,287. PUBLISHED JANUARY 4, 1921.

142,257. RUBBER ERASERS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,620. PUBLISHED JANUARY 25, 1921.

142,258. COTTON PIECE GOODS. DRYFOOS-TIEDEMANN CO., INC., New York, N. Y.
Filed April 16, 1920. Serial No. 131,211. PUBLISHED JANUARY 25, 1921.

142,259. MAGAZINE PUBLISHED MONTHLY. G. F. EARNSHAW, Chicago, Ill.
Filed November 3, 1920. Serial No. 139,114. PUBLISHED JANUARY 11, 1921.

142,260. INOCULATING-BACTERIA. THE EGGERT CHEMICAL COMPANY, Canton, Ohio.
Filed March 15, 1920. Serial No. 129,707. PUBLISHED JANUARY 25, 1921.

142,261. CERTAIN NAMED ARTICLES OF JEWELRY AND FLAT AND HOLLOW SILVERWARE. ESSAYAN JEWELRY COMPANY, Boston, Mass.
Filed October 2, 1919. Serial No. 123,345. PUBLISHED JANUARY 25, 1921.

142,262. CERTAIN NAMED TIRES, TUBES, CASINGS, SHOES, AND REPAIR PARTS. THE FALLS RUBBER COMPANY, Cuyahoga Falls, Ohio.
Filed August 25, 1920. Serial No. 136,467. PUBLISHED JANUARY 11, 1921.

142,263. TROUSERS-SUPPORTING BELTS. FAUST MFG. COMPANY, Chicago, Ill.
Filed August 13, 1919. Serial No. 121,622. PUBLISHED JANUARY 25, 1921.

142,264. IRON TONIC, SALVE USED IN THE TREATMENT OF WOUNDS, BRUISES, &c., AND COUGH-SYRUP. FERRALINE MEDICINE COMPANY, Demopolis, Ala.
Filed September 19, 1919. Serial No. 122,886. PUBLISHED MAY 25, 1920.

142,265. LEATHER AND RAWHIDE BELT-LACES AND LEATHER AND RAWHIDE FOR GENERAL USES AND FOR USE FOR MAKING BELT-LACES. THE FIELDSTAD LEATHER COMPANY, Worcester, Mass.
Filed November 17, 1920. Serial No. 139,744. PUBLISHED JANUARY 11, 1921.

142,266. YARN AND THREADS. FINLAYSON, BOUSFIELD & Co., LTD., Johnstone, Scotland.
Filed December 13, 1919. Serial No. 125,954. PUBLISHED AUGUST 3, 1920.

142,267. LAP-ROBES MADE OF TEXTILE FABRICS. LEOPOLD FRANK, London, England.
Filed August 11, 1919. Serial No. 121,524. PUBLISHED JANUARY 25, 1921.

142,268. COFFEE. FRANK H. GIBSON, Omaha, Nebr.
Filed April 22, 1920. Serial No. 131,476. PUBLISHED JUNE 29, 1920.

142,269. PUBLICATION ISSUED MONTHLY. GLASS INDUSTRY PUBLISHING CO., INC., New York, N. Y.
Filed November 19, 1920. Serial No. 139,856. PUBLISHED JANUARY 11, 1921.

142,270. COMBINATION ONE-PIECE WORKING-GARMENT. COHN, GOLDWATER CO., Los Angeles, Calif.
Filed June 10, 1919. Serial No. 119,404. PUBLISHED FEBRUARY 15, 1921.

142,271. PAINT ENAMEL. HARRY LEONARD GREENBAUM, New York, N. Y.
Filed January 28, 1920. Serial No. 127,685. PUBLISHED JANUARY 25, 1921.

142,272. BISCUITS AND CRACKERS. GROCERS BISCUIT COMPANY, Louisville, Ky.
Filed April 26, 1917. Serial No. 103,328. PUBLISHED JANUARY 18, 1921.

142,273. PEARLS AND PEARL NECKLACES. FREDERICK ROBERT HEINICK, San Francisco, Calif.
Filed September 15, 1920. Serial No. 137,225. PUBLISHED JANUARY 11, 1921.

142,274. BRASSIÈRE. HARRY HOLLANDER, Brooklyn, N. Y.
Filed September 7, 1920. Serial No. 136,891. PUBLISHED JANUARY 11, 1921.

142,275. BABBITT METAL. HOYT METAL COMPANY, St. Louis, Mo.
Filed November 4, 1920. Serial No. 139,160. PUBLISHED JANUARY 11, 1921.

142,276. BABBITT METAL. HOYT METAL COMPANY, St. Louis, Mo.
Filed November 4, 1920. Serial No. 139,163. PUBLISHED JANUARY 11, 1921.

142,277. OVERALLS, WORK-SHIRTS, WORK-JACKETS, AND WORK-PANTS. CHARLES CRUMP HUDSON, Greensboro, N. C.
Filed September 24, 1920. Serial No. 137,582. PUBLISHED JANUARY 11, 1921.

142,278. ROOT-BEER AND GINGER-ALE. H. B. HUNTER CO., INC., Norfolk, Va.
Filed August 30, 1920. Serial No. 136,627. PUBLISHED JANUARY 11, 1921.

142,279. SYRUPS TO BE USED IN MAKING NON-ALCOHOLIC, MALTLESS SODA-FOUNTAIN BEVERAGES. H. B. HUNTER CO., INC., Norfolk, Va.
Filed August 30, 1920. Serial No. 136,628. PUBLISHED JANUARY 11, 1921.

142,280. DRY COLORS, COLORS IN OIL, READY-MIXED PAINTS, AND ENAMEL PAINTS. INTER-STATE OIL COMPANY, Minneapolis, Minn.
Filed August 21, 1919. Serial No. 121,864. PUBLISHED JANUARY 25, 1921.

142,281. RAZORS AND SAFETY-RAZOR BLADES. SIGMUND ISAACS, New York, N. Y., and Yokohama, Japan.
Filed January 14, 1920. Serial No. 127,129. PUBLISHED JANUARY 25, 1921.

142,282. PREPARED AND READY-MIXED PAINTS. THE R. F. JOHNSTON PAINT CO., Cincinnati, Ohio.
Filed August 26, 1920. Serial No. 136,522. PUBLISHED JANUARY 11, 1921.

142,283. SHOES MADE OF LEATHER AND COMBINATION OF LEATHER AND FIBER. KIDDY SHOE SERVICE, INC., Lititz, Pa.
Filed October 2, 1919. Serial No. 123,355. PUBLISHED JANUARY 18, 1921.

142,284. RUBBER HOUSEHOLD APRONS, BABY-PANTS, DIAPERS, BATHING-CAPS, EAR-MUFFS, RUBBER PANTALETTES, RUBBER BLOOMERS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed January 29, 1920. Serial No. 127,728. PUBLISHED JANUARY 18, 1921.

142,285. FURNITURE-POLISH. JOHN J. KOETZNER, Philadelphia, Pa.
Filed January 30, 1919. Serial No. 115,532. PUBLISHED JANUARY 25, 1921.

142,286. AUTOMOBILE-POLISH. CHARLES KRANZLER, Farmingdale, N. Y.
Filed June 9, 1920. Serial No. 133,475. PUBLISHED JANUARY 11, 1921.

142,287. REFRACTORY TILES AND BRICKS FOR FURNACES. LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo.
Filed May 24, 1919. Serial No. 118,888. PUBLISHED JANUARY 18, 1921.

142,288. FERTILIZERS. VIRGIL H. LANIER, Jacksonville, Fla.
Filed November 10, 1920. Serial No. 139,463. PUBLISHED JANUARY 18, 1921.

142,289. SNAP-FASTENERS. LINDEKE, WARNER & SONS, INCORPORATED, St. Louis, Mo.
Filed September 21, 1920. Serial No. 137,426. PUBLISHED JANUARY 11, 1921.

142,290. SAFETY-PINS. LINDEKE, WARNER & SONS, INCORPORATED, St. Paul, Minn.
Filed September 21, 1920. Serial No. 137,427. PUBLISHED JANUARY 11, 1921.

142,291. ARTIFICIAL PEARLS. LIPPMAN'S, Altoona, Pa.
Filed November 10, 1920. Serial No. 139,464. PUBLISHED JANUARY 11, 1921.

142,292. BOOTS AND SHOES MADE OF ALL LEATHER. THE CHAS. E. LYNCH SHOE MFG. CO., INC., New York, N. Y.
Filed September 23, 1920. Serial No. 137,534. PUBLISHED JANUARY 11, 1921.

142,293. MIDDY-BLOUSES, HOUSE-DRESSES, GIRLS' DRESSES, BOYS' SUITS, BUNGALOW-APRONS. L. & H. GARMENT MFG. CO., Dallas, Tex.
Filed February 14, 1920. Serial No. 128,886. PUBLISHED JANUARY 25, 1921.

142,294. RUBBER TIRES AND TUBES. THE MCGRAW TIRE & RUBBER COMPANY, East Palestine, Ohio.
Filed April 5, 1920. Serial No. 130,681. PUBLISHED JANUARY 25, 1921.

142,295. GENERAL TONIC. THE MCGUIRE MEDICINE CO. INC., Huntington, W. Va.
Filed January 17, 1921. Serial No. 142,351. PUBLISHED FEBRUARY 8, 1921.

142,296. LAXATIVE TONIC. THE MCGUIRE MEDICINE CO. INC., Huntington, W. Va.
Filed January 17, 1921. Serial No. 142,352. PUBLISHED FEBRUARY 8, 1921.

142,297. RUBBER TIRES. MADISON TIRE AND RUBBER COMPANY, INC., Buffalo, N. Y.
Filed April 22, 1920. Serial No. 131,498. PUBLISHED JANUARY 25, 1921.

142,298. AUTOMOBILES. THE MAIBOHM MOTORS COMPANY, Sandusky, Ohio.
Filed October 14, 1920. Serial No. 138,293. PUBLISHED JANUARY 11, 1921.

142,299. NATURAL, ARTIFICIAL, AND IMITATION PEARLS. ABRAM D. MANCHESTER, Providence, R. I.
Filed October 22, 1920. Serial No. 138,684. PUBLISHED JANUARY 11, 1921.

142,300. VEILINGS, NETTINGS, MALINES, CHIFFONS, AND GEORGETTES IN THE PIECE. MARKS, RING & DUBIN, INC., New York, N. Y.
Filed December 8, 1919. Serial No. 125,715. PUBLISHED JANUARY 18, 1921.

142,301. MALLEABLE-IRON CASTINGS. THE MARION MALLEABLE IRON WORKS, Marion, Ind.
Filed May 10, 1920. Serial No. 132,255. PUBLISHED JANUARY 18, 1921.

142,302. WHEAT-FLOUR. MIDDLE STATES MILLING COMPANY, Tulsa, Okla.
Filed October 19, 1920. Serial No. 138,507. PUBLISHED JANUARY 11, 1921.

142,303. SELF-RISING FLOUR. THE MIDLAND FLOUR MILLING COMPANY, Kansas City, Mo.
Filed October 16, 1920. Serial No. 138,394. PUBLISHED JANUARY 11, 1921.

142,304. SELF-RISING FLOUR. THE MIDLAND FLOUR MILLING COMPANY, Kansas City, Mo.
Filed October 16, 1920. Serial No. 138,395. PUBLISHED JANUARY 11, 1921.

142,305. SELF-RISING FLOUR. THE MIDLAND FLOUR MILLING COMPANY, Kansas City, Mo.
Filed October 16, 1920. Serial No. 138,396. PUBLISHED JANUARY 11, 1921.

142,306. MONTHLY PERIODICAL. NATIONAL BANK OF COMMERCE IN NEW YORK, New York, N. Y.
Filed November 6, 1920. Serial No. 139,295. PUBLISHED JANUARY 11, 1921.

142,307. PNEUMATIC-TIRE CASINGS MADE OF RUBBER FOR AUTOMOBILES. NEW CASTLE RUBBER CO., New Castle, Pa.
Filed April 26, 1920. Serial No. 131,648. PUBLISHED JANUARY 25, 1921.

142,308. BUILDING-LIME. NEW ENGLAND LIME CO., Danbury, Conn.
Filed October 14, 1920. Serial No. 138,297. PUBLISHED JANUARY 11, 1921.

142,309. COTTON AND SILK THREAD AND YARN. NONOTUCK SILK COMPANY, Florence, Mass.
Filed October 23, 1919. Serial No. 124,120. PUBLISHED JANUARY 18, 1921.

142,310. WHEAT-FLOUR. WILLIS NORTON & CO., North Topeka, Kans.
Filed June 21, 1920. Serial No. 133,979. PUBLISHED JANUARY 18, 1921.

142,311. SUEDED FABRIC GLOVES. NU-FAB PRODUCTS CORPORATION, New York, N. Y.
Filed May 1, 1920. Serial No. 131,917. PUBLISHED JANUARY 25, 1921.

142,312. BUTTER. OHIO CREAMERY COMPANY, Youngstown, Ohio.
Filed January 10, 1918. Serial No. 108,406. PUBLISHED OCTOBER 12, 1920.

142,313. BUNGALOW-APRONS, HOUSE-DRESSES, CHILDREN-DRESSES, ROMPERS, AND MIDDIES. JOSEPH S. OPPENHEIMER, New York, N. Y.
Filed October 2, 1920. Serial No. 137,850. PUBLISHED JANUARY 11, 1921.

142,314. BUNGALOW-APRONS, HOUSE-DRESSES, CHILDREN-DRESSES, ROMPERS, AND MIDDIES. JOSEPH S. OPPENHEIMER, New York, N. Y.
Filed October 2, 1920. Serial No. 137,851. PUBLISHED JANUARY 11, 1921.

142,315. MILK-CHOCOLATE CANDY. PALMER CANDY COMPANY, Sioux City, Iowa.
Filed February 20, 1920. Serial No. 128,695. PUBLISHED JANUARY 25, 1921.

142,316. MEN'S LEATHER SHOES. ROGERS PEET COMPANY, New York, N. Y.
Filed September 9, 1920. Serial No. 136,998. PUBLISHED JANUARY 11, 1921.

142,317. LEATHER AND FABRIC SHOES AND INSOLES AND HEELS. PHILADELPHIA SHOE REPAIRING COMPANY, INC., Philadelphia, Pa.
Filed January 5, 1920. Serial No. 126,819. PUBLISHED JANUARY 18, 1921.

142,318. NECKTIES. PIN TEI MANUFACTURING CORPORATION, New York, N. Y.
Filed April 12, 1920. Serial No. 131,039. PUBLISHED JANUARY 25, 1921.

142,319. GASOLENE, KEROSENE, AND LUBRICATING-OIL. PRODUCERS & REFINERS CORPORATION, Denver, Colo.
Filed January 28, 1920. Serial No. 127,697. PUBLISHED JANUARY 25, 1921.

142,320. CLEANER AND POLISH FOR AUTOMOBILES AND FURNITURE OR ANY VARNISHED SURFACE. THE QUEEN CITY SPECIALTY CO., Cincinnati, Ohio.
Filed March 6, 1920. Serial No. 129,342. PUBLISHED JANUARY 18, 1921.

142,321. CORN FLAKES. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed October 18, 1920. Serial No. 138,453. PUBLISHED JANUARY 11, 1921.

142,322. WHEAT-FLOUR. THE RED STAR MILLING COMPANY, Wichita, Kans.
Filed September 1, 1920. Serial No. 136,723. PUBLISHED JANUARY 11, 1921.

142,323. UNDERSHIRTS AND UNION-SUITS. ROBERT REIS & CO., New York, N. Y.
Filed August 20, 1919. Serial No. 121,845. PUBLISHED JANUARY 4, 1921.

142,324. HAIR-CURLERS IN THE NATURE OF METALLIC CLIPS. ENA ROESSNER, Chicago, Ill.
Filed June 28, 1920. Serial No. 134,331. PUBLISHED JANUARY 18, 1921.

142,325. SNAP-FASTENERS. CHAS. RUBENS & CO., Chicago, Ill.
Filed September 3, 1920. Serial No. 136,812. PUBLISHED JANUARY 11, 1921.

142,326. WATCH-SPRINGS. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed June 26, 1920. Serial No. 134,278. PUBLISHED DECEMBER 14, 1920.

142,327. CERTAIN ARTICLES OF CLOTHING. SANGER BROTHERS, INC., Dallas, Tex., and New York, N. Y.
Filed September 25, 1920. Serial No. 137,637. PUBLISHED JANUARY 11, 1921.

142,328. MONTHLY PUBLICATION. THE SCHOELLKOPF COMPANY, Dallas, Tex.
Filed November 24, 1920. Serial No. 140,146. PUBLISHED JANUARY 11, 1921.

142,329. CORSETS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 25, 1920. Serial No. 137,639. PUBLISHED JANUARY 11, 1921.

142,330. SAFETY-PINS. SEARS, ROEBUCK AND COMPANY, Chicago, Ill.
Filed September 25, 1920. Serial No. 137,640. PUBLISHED JANUARY 11, 1921.

142,331. CHECK-HINGES. THE SHELBY METAL PRODUCTS COMPANY, Shelby, Ohio.
Filed July 1, 1920. Serial No. 134,490. PUBLISHED JANUARY 18, 1921.

142,332. DRESSED FURS FOR USE IN APPAREL. PHILIP A. SINGER & BRO., Newark, N. J.
Filed October 19, 1920. Serial No. 138,521. PUBLISHED JANUARY 11, 1921.

142,333. CERTAIN NAMED ARTICLES OF JEWELRY FOR PERSONAL WEAR. SOCIÉTÉ LA PERLE SASKIA, Paris, France.
Filed March 26, 1920. Serial No. 130,244. PUBLISHED JANUARY 25, 1921.

142,334. LEATHERS AND SKINS. STE. AME. DES ANCIENS ETABLISSEMENTS A. COMBE & FILS & CIE., Paris, France.
Filed December 18, 1918. Serial No. 114,708. PUBLISHED JANUARY 25, 1921.

142,335. CERTAIN DESCRIBED PAPER AND CARDBOARD. STRATHMORE PAPER COMPANY, West Springfield and Mittineague, Mass.
Filed October 23, 1919. Serial No. 124,127. PUBLISHED JANUARY 25, 1921.

142,336. GAGE-GLASSES. WILLIAM H. STUART, New York, N. Y.
Filed August 24, 1920. Serial No. 136,435. PUBLISHED JANUARY 11, 1921.

142,337. COAL. ST. LOUIS COAL CO., St. Louis, Mo., and Coulterville, Ill.
Filed November 8, 1920. Serial No. 139,371. PUBLISHED JANUARY 11, 1921.

142,338. WHISKY. THE SUNNY BROOK DISTILLERY CO., Chicago, Ill.
Filed October 20, 1920. Serial No. 138,606. PUBLISHED JANUARY 11, 1921.

142,339. CERTAIN NAMED FOODS. TOLERTON & WARFIELD CO., Sioux City, Iowa.
Filed August 2, 1915. Serial No. 88,376. PUBLISHED JANUARY 6, 1920.

142,340. METAL PISTON-RINGS. TRIONE PISTON RING COMPANY, St. Louis, Mo.
Filed May 9, 1919. Serial No. 118,335. PUBLISHED JANUARY 25, 1921.

142,341. INFANTS' SHOES AND SLIPPERS MADE OF FABRIC. TWEEDIE FOOTWEAR CORPORATION, Jefferson City, Mo.
Filed September 4, 1920. Serial No. 136,860. PUBLISHED JANUARY 11, 1921.

142,342. HOSE MADE OF RUBBER AND FABRIC. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed April 9, 1920. Serial No. 130,934. PUBLISHED JANUARY 25, 1921.

142,343. GRAPE-JUICE. UVA GRAPE PRODUCTS COMPANY, San Francisco, Calif.
Filed May 11, 1920. Serial No. 132,329. PUBLISHED JANUARY 18, 1921.

142,344. RUBBER HORSESHOE-PADS. VOUGHT & WILLIAMS, New York, N. Y.
Filed December 6, 1919. Serial No. 125,676. PUBLISHED DECEMBER 7, 1920.

142,345. BASKETS MADE FROM WOOD SPLINTS. WABASH BASKET CO., Converse, Ind.
Filed April 1, 1920. Serial No. 130,498. PUBLISHED JANUARY 18, 1921.

142,346. STEAM, WATER, AND GAS PIPE FITTINGS AND STEAM, WATER, AND GAS VALVES. WALWORTH MANUFACTURING COMPANY, Boston, Mass.
Filed November 20, 1919. Serial No. 125,139. PUBLISHED JANUARY 18, 1921.

142,347. CERTAIN NAMED BLASTING SUPPLIES, AMMUNITION, AND ACCESSORIES. WESTERN CARTRIDGE COMPANY, East Alton, Ill.
Filed November 19, 1919. Serial No. 125,098. PUBLISHED SEPTEMBER 28, 1920.

142,348. SECONDARY BATTERIES AND CONNECTORS THEREFOR. WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa.
Filed July 7, 1920. Serial No. 134,685. PUBLISHED JANUARY 18, 1921.

142,349. SWEATERS. PHILIP WHITE, Philadelphia, Pa.
Filed July 25, 1919. Serial No. 120,927½. PUBLISHED JANUARY 4, 1921.

142,350. MAGAZINES AND PERIODICALS PUBLISHED AT INTERVALS, PARTICULARLY AT MONTHLY INTERVALS. GEORGE B. WILLIAMS, Chicago, Ill.
Filed November 17, 1920. Serial No. 139,764. PUBLISHED JANUARY 11, 1921.

142,351. FEED FOR HORSES, MULES, HOGS, POULTRY, AND DAIRY-CATTLE. JOHN M. WILSON, Meridian, Miss.
Filed September 18, 1920. Serial No. 137,346. PUBLISHED JANUARY 11, 1921.

142,352. FEED FOR HORSES, MULES, HOGS, POULTRY, AND DAIRY-CATTLE. JOHN M. WILSON, Meridian, Miss.
Filed September 18, 1920. Serial No. 137,347. PUBLISHED JANUARY 11, 1921.

142,353. CERTAIN NAMED FIREARMS AND AMMUNITION AND PYROTECHNIC SUPPLIES. WINCHESTER REPEATING ARMS COMPANY, New Haven, Conn.
Filed June 27, 1919. Serial No. 120,019. PUBLISHED NOVEMBER 2, 1920.

142,354. LIQUID CORE COMPOUND. THE E. J. WOODISON CO., Detroit, Mich.
Filed July 8, 1920. Serial No. 134,738. PUBLISHED JANUARY 18, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

MAY 10, 1921.

142,355. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. AUBERT & CIA., Buenos Aires, Argentina. Filed Nov. 1, 1919. Serial No. 124,431.

Parfumerie Hygiénique
BRISSAC
PARIS

Particular description of goods.—Toilet Articles Comprising Perfumes and Toilet Waters, Face-Powders, Face-Creams, Rouges and Salves, and Tooth Powders and Pastes.
Claims use since Jan. 15, 1917.

142,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BARKER, MOORE & MEIN MEDICINE COMPANY, Philadelphia, Pa. Filed Nov. 23, 1920. Serial No. 140,018.

BARKER'S

Particular description of goods.—A Household Disinfectant.
Claims use since about Jan. 15, 1918.

142,357. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BELMONT MOTORS CORPORATION, Lewistown and Harrisburg, Pa. Filed Jan. 22, 1921. Serial No. 142,578.

Belmont
"Any Load on any Road"

Particular description of goods.—Automobiles and Automobile-Trucks.
Claims use since Apr. 26, 1917.

142,358. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE J. G. BRILL COMPANY, Philadelphia, Pa. Filed Feb. 25, 1921. Serial No. 144,011.

BIRNEY

Particular description of goods.—Street-Cars.
Claims use since Mar. 19, 1919.

142,359. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE COLEMAN LAMP COMPANY, Wichita, Kans. Filed Feb. 1, 1921. Serial No. 143,042.

Coleman
Quick-Lite

"The Sunshine of the Night"

Particular description of goods.—Vapor or Gas Generating Pressure-Lamps of the Portable, Pendent, Ceiling, and Wall Types; Vapor, Gas, and Oil Lanterns; Hollow-Wire Lighting Plants and Systems, Urn-Burners, Gas-Generators, and Parts Thereof.
Claims use since January, 1913.

142,360. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Feb. 25, 1921. Serial No. 144,013.

RAPID-SHAVE

Particular description of goods.—Soap Powder for Shaving.
Claims use since Feb. 10, 1909.

142,361. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Feb. 25, 1921. Serial No. 144,014.

SILVER-BRIGHT

Particular description of goods.—A Preparation for Cleaning, Brightening, and Polishing Silver and other Metals.
Claims use since May 31, 1917.

142,362. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,547.

BUNG

Particular description of goods.—Fire-Bricks and Tile Manufactured From Fire-Clay for Metallurgical Furnaces.
Claims use since May, 1914.

142,363. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,551.

JUNIATA

Particular description of goods.—Fire-Brick and Tile Manufactured From Fire-Clay for Metallurgical Furnaces.
Claims use since January, 1903.

142,364. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,554.

STOVE JUNIATA

Particular description of goods.—Fire-Bricks and Tile Manufactured From Fire-Clay for Metallurgical Furnaces.
Claims use since January, 1903.

142,365. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,555.

FORD

Particular description of goods.—Fire-Bricks and Tile Manufactured From Fire-Clay for Metallurgical Furnaces.
Claims use since May, 1914.

142,366. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Sept. 2, 1920. Serial No. 136,742.

DU PONT DYESTUFFS

Particular description of goods.—Dyestuffs.
Claims use since April, 1918.

142,367. [WITHDRAWN.]

142,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Sept. 2, 1920. Serial No. 136,748.

DU PONT

Particular description of goods.—Dyestuffs.
Claims use since April, 1918.

142,369. (CLASS 39. CLOTHING.) D. B. FISK & CO., Chicago, Ill. Filed Dec. 31, 1920. Serial No. 141,828.

Fiskhats

Particular description of goods.—Trimmed and Untrimmed Hats for Women and Children.
Claims use since on or about Jan. 22, 1905.

142,370. (CLASS 39. CLOTHING.) H. GOLDWATER & CO. INC., New York, N. Y. Filed Dec. 30, 1920. Serial No. 141,676.

AMERICAN GIRL

Particular description of goods.—Girls' Coats.
Claims use since Feb. 28, 1914.

142,371. (CLASS 39. CLOTHING.) THE H & W COMPANY, INC., Newark, N. J. Filed Jan. 8, 1921. Serial No. 141,982.

They Fit

Particular description of goods.—Brassières, Bandeaux, Children's Underwaists and Skeleton Waists; Corset-Waists for Ladies, Misses, and Children; Corsets, Including Maternity-Corsets; Elastic-Tape Girdles, Tape-Girdles, and Hose-Supporter Belts.
Claims use since about July 1, 1916.

142,372. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JACKSON PIANO CO., Milwaukee, Wis. Filed Jan. 17, 1921. Serial No. 142,344.

MIESSNER

Particular description of goods.—Pianos and Player-Pianos.
Claims use since Oct. 26, 1918.

142,373. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WILLIE S. JOHNSON, St. Louis, Mo., assignor to Leslie M. Wilkinson, St. Louis, Mo. Filed Sept. 4, 1919. Serial No. 122,303.

JOHNSON'S TIRE PATCH

Particular description of goods.—Repair Outfits for Automobile Tires and Tubes.
Claims use since Mar. 26, 1919.

142,374. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN Y. KING, Lansdowne, Pa. Filed Feb. 3, 1921. Serial No. 143,239.

KARBURETOR

Particular description of goods.—Air-Feeding Devices for Stoves, Furnaces, and other Burning Appliances.
Claims use since on or about Oct. 1, 1919.

142,375. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LA FAYETTE MOTORS COMPANY, Indianapolis, Ind. Filed Sept. 23, 1920. Serial No. 137,533.

LAFAYETTE

Particular description of goods.—Automobiles.
Claims use since Jan. 1, 1920.

142,376. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LANDERS, FRARY & CLARK, New Britain, Conn., and Connersville, Ind. Filed Feb. 10, 1921. Serial No. 143,395.

CONNERSVILLE

Particular description of goods.—Electrically-Driven Apparatus Comprising Scrubbing-Machines, Floor-Polishing Machines, Floor-Sanding Machines, and Vacuum-Cleaners.
Claims use since 1909.

142,377. (CLASS 11. INKS AND INKING MATERIALS.) ROLAND G. LANDIS, Dayton, Ohio. Filed Feb. 5, 1921. Serial No. 143,216.

FLAX CLOTH

Particular description of goods.—Typewriter-Ribbons.
Claims use since on or about Jan. 1, 1915.

142,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH B. MCMANES, Columbus, Ohio. Filed Nov. 20, 1920. Serial No. 139,896.

BROMO-ASPIRIN

Particular description of goods.—A Medicine in Tablet and Powder Form for Nervous and Sick Headache.
Claims use since about Feb. 1, 1919.

142,379. (CLASS 39. CLOTHING.) ROBERT E. MILLER, INC., New York, N. Y. Filed Sept. 3, 1920. Serial No. 136,806.

U-PUT-ON

Particular description of goods.—Rubber Heels.
Claims use since June, 1917.

142,380. (CLASS 39. CLOTHING.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Dec. 18, 1920. Serial No. 141,274.

Miller

Particular description of goods.—Rubber Baby-Bibs, Bathing-Caps; Rubber Belts, (Trouser;) Rubber Household Gloves, Rubber Acid-Gloves, Rubber Linemen's Gloves.
Claims use since Oct. 6, 1907.

142,381. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Mar. 18, 1921. Serial No. 144,935.

White A.C. Special

Particular description of goods.—Arc-Light Carbons.
Claims use since about Oct. 1, 1917.

142,382. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL WEATHER-PROOF PAINT CO., Milwaukee, Wis. Filed Sept. 8, 1919. Serial No. 122,442.

NU Top-Dressing

Particular description of goods.—A Waterproof Dressing for Use on Auto-Tops, Auto-Curtains, Wagon-Tops, Wagon-Curtains, Wagon-Covers, Tents, Awnings, Piano-Covers, Car-Covers, Hatch-Covers, Boat-Covers, Sails, Nets, Ropes, Hunting-Coats, Hunting-Suits, Shoes, Leggings, Hose, Hats, Pants, Shirts, Mittens, Gloves, Sheets, Tarpaulins, Aprons, Cement-Sacks, Cement-Covers, Butcher-Aprons, Blacksmith-Aprons, Auto-Washing Aprons, Window-Shades, Harnesses, Belting, Rubber Goods, Typewriter-Covers, Canvas, Paper, &c.
Claims use since Oct. 1, 1918.

142,383. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,655.

BOATING SERGE

Particular description of goods.—Cotton Piece Goods.
Claims use since 1911.

142,384. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,665.

DURABLE

Particular description of goods.—Cotton Piece Goods.
Claims use since December, 1915.

142,385. (CLASS 39. CLOTHING.) F. A. PATRICK & Co., Duluth, Minn. Filed Jan. 5, 1921. Serial No. 141,876.

Mankato DULUTH

Particular description of goods.—Aprons, Bath-Robes, Blouses, Booties, Rubber Boots, Leather Boots, Cloth Capes, Fur Capes, Cloth Capes Lined with Fur, Rubber Caps, Leather Caps, Fur Caps, Cloth Caps, Caps of Oiled Fabric, Caps of Waterproof Fabric, Rubber Coats, Leather Coats, Fur Coats, Fabric Coats, Fur-Lined Coats, Coats of Oiled Fabric, Coats of Waterproof Material; Men's, Women's, and Children's Drawers of Either Textile Fabric or Knitted Fabric; Dresses, Gowns; Men's, Women's, and Children's Hats of Either Straw, Felt, Cloth, Beaver, or Rubber; Rubber Hoods, Fabric Hoods, Straw Hoods; Hosiery of Either Silk, Wool, Cotton, or Mercerized Fabric; Insoles, Fabric Jackets, Fur Jackets, Leather Jackets, Jumpers, Mufflers; Leggings of Either Leather, Canvas, or Cloth; Moccasins of Either Leather, Canvas, or Cloth; Hand-Muffs of Either Fabric or Fur, Ear-Muffs, of Either Fabric or Fur, Nightgowns, Overalls; Overshoes of Either Rubber, Cloth, or Both Rubber and Cloth; Pajamas, Pantaloons, Rubber Raincoats, Raincoats of Cravenette Material, Fur Robes, Fabric Robes; Sandals of Either Rubber, Leather, or Canvas; Slippers of Either Cloth, Leather, or Canvas; Dress Outer Shirts, Negligée Outer Shirts, Work Outer Shirts, Outer Skirts, Sweaters, Feather Toques, Fabric Toques, Fabric Ulsters, Fur Ulsters, Fur-Lined Ulsters; Men's, Women's and Children's Undershirts of Either Knitted or Textile Fabric; Outer Vests, Undervests, Shirtwaists, Underwaists, Waistcoats, Trousers of Oiled Fabric, Leather Trousers, Rubber Trousers, Trousers of Waterproof Material, Fabric Cloaks, Fur Cloaks, Fur-Lined Cloaks; Gloves of Either Rubber, Leather, or Fabric; Overcoats of Either Rubber, Leather, or Fabric; Men's Women's, and Children's Knitted Underwear Made Up of Either One Garment or more Than One Garment; Outer Suits for Men, Women, and Children; Men's, Women's, and Children's Undersuits of Either Knitted or Textile Fabrics, and Children's Romper-Suits.
Claims use since Jan. 1, 1912.

142,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEPSINIC SELTZER COMPANY, Worcester, Mass. Filed Oct. 12, 1920. Serial No. 138,233.

PEPSINIC SELTZER "AMELOTTE"

Particular description of goods.—Effervescing Salt for Use in Cases of Headache, Heartburn, Indigestion, Gastritis, Dyspepsia, (Hyperacid Type.)
Claims use since about Oct. 10, 1916.

142,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER CAILLER KOHLER SWISS CHOCOLATES Co., INC., New York, N. Y. Filed Jan. 10, 1921. Serial No. 142,020.

"RICHEST IN CREAM"

Particular description of goods.—Milk-Chocolate.
Claims use since January, 1900.

142,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILAN FRANCIS PRATT, Rochester, N. Y. Filed Nov. 23, 1920. Serial No. 140,063.

Lithuric SALTS

Particular description of goods.—Salts Used in the Treatment of Kidney and Bladder Troubles, Rheumatism, Gout, Backache, Arthritis, and other Complaints Due to an Uric-Acid Diathesis; Liver and Bowel Disorders, and Removing the Products of Intestinal Fermentation and Decomposition; Prevents and Relieves the Excessive Blood-Pressure Due to Constipation, Auto-Intoxication, Kidney and Uric-Acid Complaints.
Claims use since Apr. 8, 1918.

142,389. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROENTGEN APPLIANCE COMPANY, San Francisco, Calif. Filed Mar. 1, 1921. Serial No. 144,203.

STABILIZER

Particular description of goods.—Apparatus for Maintaining Constant Current on Coolidge Tubes.
Claims use since Sept. 3, 1919.

142,390. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE SANITARY FEATHER CO., Chicago, Ill. Filed Aug. 5, 1920. Serial No. 135,827.

SANITARY

Particular description of goods.—Pillows, Sofa-Cushions, Mattresses, and Box-Springs.
Claims use since Jan. 1, 1894.

142,391. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. SIMON CHEESE CO., INC., Appleton, Wis. Filed Dec. 5, 1919. Serial No. 125,634.

SIMON'S

Particular description of goods.—Cheese.
Claims use since January, 1919.

142,392. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 15, 1920. Serial No. 138,349.

SIMMONS

Particular description of goods.—Harness, Riding-Saddles, Horse-Collars, Swingle and Double Trees, Neck-Yokes.
Claims use since Jan. 26, 1912.

142,393. (CLASS 25. LOCKS AND SAFES.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 15, 1920. Serial No. 138,357.

SIMMONS

Particular description of goods.—Padlocks, Night-Latches.
Claims use since Dec. 29, 1911.

142,394. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) G & J TIRE COMPANY, Indianapolis, Ind. Filed Jan. 11, 1921. Serial No. 142,068.

STALWART

Particular description of goods.—Vehicle-Tires Made of Rubber.
Claims use since January, 1918.

142,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN SAUSAGE & PROVISION CO., INC., New York, N. Y. Filed July 19, 1920. Serial No. 135,183.

FINE PRIZE

Particular description of goods.—Dried Sausage.
Claims use since 1907.

142,396. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Feb. 17, 1921. Serial No. 143,731.

HOLDER TOP

Particular description of goods.—Shaving-Sticks.
Claims use since on or about May 21, 1909.

142,397. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE J. G. WILSON CORPORATION, Norfolk, Va. Filed Aug. 27, 1919. Serial No. 122,067.

DIFFUSELITE



Particular description of goods.—Ready-Mixed Paints.
Claims use since July 1, 1919.

142,398. (CLASS 39. CLOTHING.) "THE YOUNG MEN'S SHOP," Washington, D. C. Filed Dec. 29, 1920. Serial No. 141,659.

"The Young Men's Shop"

Particular description of goods.—Men's, Youths', and Boys' Coats, Vests, Trousers, Overcoats; Straw, Felt, and Textile Hats and Caps; Dress and Negligée Shirts, Collars, Cuffs, Sweaters, Hosiery, Bath-Robes, Bathing-Suits, Night-Shirts, Pajamas, Leather and Textile Gloves, Knitted and Woven Underwear in One and Two Piece Garments, Raincoats, Scarfs, Mufflers; Boots, Shoes, and Slippers of Leather, Fabric, Rubber, and Combination; Suspenders, Cravats, Neckties, and Belts.
Claims use since 1912.

142,399. (CLASS 39. CLOTHING.) SAMUEL ZALIS, Baltimore, Md. Filed Nov. 17, 1920. Serial No. 139,778.

BALTIMORE SHIRT CO.

Particular description of goods.—Work-Shirts, Dress-Shirts, Negligée Shirts, Knitted and Textile Fabric Underwear, Union-Suits, and Two-Piece Garments for Men.
Claims use since Jan. 1, 1919.

LABELS

REGISTERED MAY 10, 1921.

22,888.—*Title:* "McQUAY-NORRIS JIFFY-GRIP PISTON RINGS." (For Piston-Rings.) McQUAY-NORRIS MFG. CO., St. Louis, Mo. Filed March 14, 1921.

22,889.—*Title:* "BON-TON." (For Hair-Nets or Containers for Hair-Nets.) DAVID TEITELBAUM, New York, N. Y. Filed December 20, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

THOMSON *v.* PEARSONS.

Decided December 9, 1919.

PATENTS—PRIORITY—CONSTRUCTION OF ISSUE—BROAD INTERPRETATION.

Under the rule that the counts of an interference issue should be given the broadest interpretation which they will reasonably support *Held* that Pearsons is entitled to make the claims and that he is entitled to an award of priority.

[Affirmed by the Court of Appeals of the District of Columbia, 286 O. G., 415.]

APPEAL from Examiners-in-Chief.

FIRE-EXTINGUISHING DEVICE.

Mr. Seward Davis for Thomson.

Mr. John O. Seifert for Pearsons.

NEWTON, *Commissioner:*

This is an appeal by Thomson from the decision of the Examiners-in-Chief affirming the action of the Examiner of Interferences awarding priority to Pearsons, the senior party, on the following issue:

1. In an automatic fire extinguisher, a container for a fire extinguishing fluid, means adapted automatically to place said fluid under compression when a predetermined temperature is reached and means normally within said container adapted to expel the fluid at a point exterior to said container.

2. In a fire extinguisher, the combination of a container for a fire extinguishing fluid, means adapted to place said fluid under compression, and means adapted to be projected from said container for conveying said fluid to a point exterior to said container and there ejecting it.

3. In a fire extinguisher, the combination of a container for a fire extinguishing fluid, means adapted to place said liquid under compression, and means for ejecting said liquid at a point exterior to said container, said means being positioned within said container when the compression means is inactive.

4. In a fire extinguisher, the combination of a container for a fire extinguishing fluid, means adapted to compress said fluid and to project a nozzle from said container, and means for causing said compression means to become operative.

Thomson is a patentee; but his patent was issued less than a year before Pearsons copied two claims for interference purposes. Counts 3 and 4 were afterward added under Rule 109 by the Law Examiner.

The invention covered by the counts is an automatic fire-extinguisher, and the only point involved is whether Pearsons can make the claims corresponding to the counts.

At an extended hearing before me Thomson emphasized the same points that are so fully discussed by the Board of Examiners-in-Chief in its decision, and since I agree with that tribunal in its statements of facts as well as its conclusions nothing need be added thereto.

Unquestionably the two involved devices are specifically different. Thomson's liquid is expelled by a spring 11, which, by the way, is old, (see Putnam, No. 1,098,837,) while Pearsons's is expelled by the expansion of generated gas. Thomson's device (Figures 1 and 2) is adapted for use as a hand-extinguisher to be pointed in different directions and even upwardly, while Pearsons's is not; but the counts, when fairly construed, are broad enough to read on either device and are, furthermore, patentable over the prior art by reason of such limitations as—

> means adapted to be projected from said container for conveying said fluid to a point exterior to said container and there ejecting it—

of count 2 and corresponding limitations of the other counts, and there is no need in reading limitations into the counts. Indeed, it is now well established that—

> we must give claims the broadest interpretation which they will reasonably support, and we are not at liberty to import limitations therein to meet the exigencies of a particular situation. (*Miel* v. *Young*, 128 O. G., 2532; 29 App. D. C., 481; *Kirby* v. *Clements*, 216 O. G., 1319; 44 App. D. C., 12.)

The decision of the Examiners-in-Chief holding that Pearsons's disclosure supported the counts, and therefore their award of priority to him, was undoubtedly in accordance with the practice, and it is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE COFFIELD.

Decided February 7, 1921.

1. PATENTS — NOVELTY AND INVENTION — CLOTHES-WRINGER.

Claims in an application for a patent on improvement in clothes-wringers the only novel element of which was a rigidly attached drain-board and clothes-guide *Held* patentable, since none of the patents of the prior art discloses this idea.

2. SAME—DOUBTS AS TO INVENTION WILL BE RESOLVED IN FAVOR OF INVENTOR.

A doubt as to whether the improvement is invention or mere mechanical improvement will, as a general rule, be resolved in favor of the inventor.

Mr. R. J. McCarty and *Mr. Edward L. Reed* for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.:*

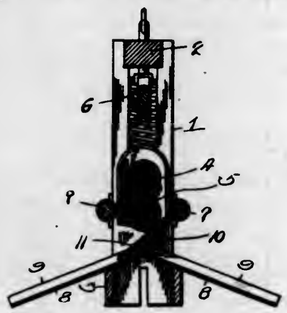
Applicant Coffield appeals from the decision of the Commissioner of Patents rejecting the following claims for improvements in clothes-wringers:

1. In the clothes wringer, the combination with the wringer rolls, of a drain-board and clothes guide rigidly mounted in the wringer frame below said rolls and extended a substantial distance on each side of the wringer frame to form a clothes guide, and a reversible water shutter pivotally mounted between said drain-board and clothes guide and said rolls to direct the water to one side of the said drain-board and clothes guide while the clothes are guided from the wringer on the other side to a receiving receptacle.

2. In a clothes wringer, the combination with the wringer rolls, of a double inclined shed rigidly mounted in the wringer frame and extended a substantial distance on each side thereof to form a combined drain-board and clothes guide upon one part of which the clothes passing through the wringer rolls are delivered to a receptacle and upon the other part of which the water wrung from the clothes is directed elsewhere.

The device is described by the Commissioner as follows:

The device shown is a clothes wringer having a combined drain-board and clothes guide rigidly connected to the frame of the wringer and extending therefrom at a considerable distance on each side, and a pivoted water shutter, the latter being so arranged with reference to the drain-board and the wringer rolls that the water wrung from the clothes by the latter can be drained in either direction.



The rigidly-mounted drain-board and clothes-guide 9 is the only improvement over the prior art. The revers.ble water-shutter 11, mentioned in the claims, is old. A number of references to patents are cited by the Patent Office, but all relate to means for draining the water from the rolls into the receptacle from which the clothes are being placed in the wringer. These are so arranged that they may be adjusted to either side of the wringer as desired. But in none of them is the idea of a rigidly-mounted drain-board and clothes-guide disclosed. The function of the clothes-guide to direct the clothes without manual assistance into the receiving-receptacle is as important as the draining feature.

While the idea here developed is in the twilight zone between invention and mere mechanical improvement, we will apply the rule of the courts generally and resolve the doubt in favor of the inventor. We are dealing with an old and well-developed art, and it is significant that no one has before conceived the means for automatically delivering the wrung clothes into the receiving-receptacle.

Now that it has succeeded, it may seem very plain to any one that he could have done it as well. This is often the case with inventions of the greatest merit. (*Loom Co. v. Higgins*, 105 U. S., 580.)

The improvement here produces a new and useful result, and efficiency where before there had been inefficiency. Where this is accomplished there is invention. As was said in *re Harbeck*, (39 App. D. C., 555, 563:)

While the use of new materials to produce a known result, or of known materials to produce a new but obvious result, may not always constitute invention, if the new idea, when applied, brings success out of failure, produces a new and useful result and saving in operation or production, or efficiency instead of inefficiency gives to the device new functions and useful properties, it is invention, and may be patented.

The decision of the Commissioner of Patents is reversed.

Reversed.

The decision of the First Assistant Commissioner is as follows:

WHITEHEAD, *First Assistant Commissioner:*

Applicant appeals from the decision of the Examiners-in-Chief affirming the action of the Primary Examiner finally rejecting the following claims:

* * * * * * *

The references cited by the Examiner are: Broich, 614,219, November 15, 1898; Judd *et al.*, 1,033,593, July 23, 1912; and in addition the Examiners-in-Chief cited Bailey, 318,850, May 26, 1885; Parker, 413,543, October 22, 1889.

The device shown is a clothes-wringer having a combined drain-board and clothes-guide rigidly connected to the frame of the wringer and extending therefrom at a considerable distance on each side, and a pivoted water-shutter, the latter being so arranged with reference to the drain-board and the wringer-rolls that the water wrung from the clothes by the latter can be drained in either direction.

The device shown by the applicant differs from the wringer shown in the patent to Bailey only in the extension of the drain-board. Each of the claims specifies a drain-board and clothes-guide extending a substantial distance on each side of the wringer-frame, and claim 1 includes the reversible shutter.

The Examiners-in-Chief held that no invention would be involved in extending the drain-board shown in the patent to Bailey in view of the patents to Parker and Broich.

The patent to Parker, which shows a wringer having a somewhat different water-shutter—that is, one slidable in guides instead of pivoted—has the drain-boards extending slightly on each side of the wringer-frame, and the patent to Broich shows the drain-boards extended some distance on either side. They are not rigid with the frame, being pivoted in the center thereof and being held in extended position by means of latches.

It is argued on behalf of applicant that the Broich patent does not suggest the idea of the rigid drain-boards and that in use the clothes as they were drawn from the tub would pull up the drain-board on that side and release the latches.

It was stated by the applicant at the hearing that when he attempted to purchase wringers for use in connection with the washing-machines which he was manufacturing he was offered a wringer differing from that shown in the Bailey patent in that the water-shutter was made much longer and served as a drain-board, an additional member being provided as a clothes-guide, and a wringer somewhat as shown in the Judd and Pletsch patent, with the water-shutter slidable in the frame and capable of being latched in the desired position. It was stated that the wringers of the latter type were also provided with an additional member to serve as a clothes-guide, which had to be moved from one side of the wringer to the other when the direction of rotation was reversed.

It is argued from these facts that the provision of a combined clothes-guide and drain-board such as applicant shows was not so obvious as is now alleged.

There is nothing to show that the parties who built the wringers referred to had before them the Bailey patent or were attempting to improve upon the device shown therein. If in using the wringer of the Bailey patent it was found that the water did not drain far enough away from the wringer or that the clothes dropped down too close to the edge of the wringer, it is believed that the remedy would have at once suggested itself—viz., to extend the drain-board C C'—or that at least such a remedy would have been suggested by the patents to Parker and Broich, both of which show extended drain-boards. Although in the Parker patent the drain-boards are not very much extended and in the Bailey patent they are not rigid, they both disclose the idea of shedding the water farther from the wringer.

The decision of the Examiners-in-Chief is affirmed.

Court of Appeals of the District of Columbia.

SPEED *v.* KIRBY. KIRBY *v.* SPEED.

Decided February 7, 1921.

PATENTS—PRIORITY—RIGHT TO MAKE CLAIM—CARBURETER—"NOZZLE."

Where the issue of an interference relating to a carbureter includes a mixing-chamber and "a nozzle for discharging liquid fuel" into said chamber, and one party shows a pipe and the other merely a port through which gas flows, *Held* that a port or hole is not a nozzle, and such party has no right to make the claims of the issue.

Mr. J. F. Robb, *Mr. W. C. Robb*, and *Mr. H. S. Hill* for Speed.

Mr. J. H. Milans, *Mr. C. T. Milans*, and *Mr. Frank Parker Davis* for Kirby.

SMYTH, *C. J.:*

This interference relates to carbureters for internal-combustion engines. There are three counts, as follows:

1. In a carbureter, the combination with the casing containing the mixing chamber, of an automatic air valve controlling the admission of air to said mixing chamber, coöperating means variably restricting the flow of the liquid fuel, and a dash-pot for retarding the opening movement of said valve, permitting the unresisted closing thereof.

2. In a carbureter, the combination with a casing containing the mixing chamber, of an automatic valve controlling the admission of air to said chamber, a nozzle for discharging liquid fuel into said chamber, a metering pin coöperating with said automatic valve for variably restricting the flow of liquid to increase the same upon the opening of said valve, a dash-pot for resisting the sudden opening of said valve, and a valve-controlled by-pass for said dash-pot permitting the unresisted closing of said valve.

3. In a carbureter, the combination with a casing containing the mixing chamber, of an automatic valve controlling the admission of air to said chamber, a nozzle for discharging liquid fuel into said chamber, a piston connected with said valve, a cylinder coöperating with said piston to form a dash-pot for resisting the sudden opening of said valve, and a valve-controlled by-pass for said dash-pot permitting the unresisted closing of said valve.

Speed was allowed by the Commissioner count 1, and Kirby counts 2 and 3. Both parties appeal.

The Examiner of Interferences gave the three counts to Speed; so did the Examiners-in-Chief, but, as just stated, the Commissioner modified their findings. With respect to count 1, if Speed has an "air valve controlling the admission of air to" the "mixing chamber," then the patent granted to him on an application filed in December, 1911, reads on it, and as that date is prior to any date established by Kirby, Speed must prevail. It seems to us beyond a doubt that the valve 24 answeres to the call of the patent. It controls the admission of the air to the mixing-chamber. Speed is entitled under the law to a construction of the claim in issue as broad as the language will permit. (*Kirby v. Clements*, 44 App. D. C., 12; *Miel v. Young*, 29 App. D. C., 481.) Giving him this, we think it must be said that the Patent Office was right in awarding him count 1.

Concerning counts 2 and 3, the solution of the question presented turns on whether or not Speed in his patent disclosed a "nozzle for discharging liquid fuel into" the "mixing chamber." The Examiner of Interferences and the Board of Examiners held that he had, but the Commissioner refused to approve this finding. A nozzle is defined by *Webster's International Dictionary* as

a short tube, usually tapering, forming the vent of a hose or a pipe.

Speed has two ports which he says are nozzles. Through them the fluid runs by gravity.

To call a hole through which the gas flows by gravity from a chamber a "nozzle" is straining language too much, says the Commissioner, and we agree with him. Kirby's pipe F, on the other hand, is described by him as a nozzle, and meets the definition from *Webster's Dictionary* just quoted.

Believing that the Commissioner is right, his decision is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

THOMSON AND THE JARDINE MANUFACTURING CORPORATION OF NEW YORK *v.* PEARSONS.

Decided February 7, 1921.

PATENTS—PRIORITY—CONCURRING DECISIONS OF PATENT OFFICE TRIBUNALS AFFIRMED.

Concurring decisions of the tribunals of the Patent Office holding that Pearsons is entitled to make the counts of the issue and awarding priority to him not being palpably wrong, Commissioner's decision affirmed.

[Affirming Commissioner's decision, 286 O. G., 413.]

Mr. Seward Davis for Thomson *et al.*

Mr. Jos. D. Sullivan for Pearsons.

MEMORANDUM OPINION BY CHIEF JUSTICE SMYTH.

This interference involves an automatic fire-extinguisher, and, in the language of the Commissioner, the only point involved is whether Pearsons can make the claims corresponding to the counts. The three tribunals of the Patent Office held that he could. We see no reason for disturbing their conclusion. It is not palpably wrong, and therefore, under repeated decisions of this court (*Greenawalt v. Dwight*, 49 App. D. C., 82; 258 Fed., 982; *Hopkins v. Riegger*, 49 App. D. C., 188; 262 Fed., 642; *Kennicott v. Caps*, 49 App. D. C., 187; 262 Fed., 641; *Maremont v. Olson*, 49 App. D. C., 369; 265 Fed., 1009) we affirm the Commissioner's decision.

Affirmed.

Court of Appeals of the District of Columbia.

STORY *v.* COTTRELL.

Decided February 7, 1921.

PATENTS—PRIORITY—RIGHT TO MAKE CLAIMS.

Decision of the Commissioner of Patents finding that Cottrell had a right to make the claims of the issue and awarding priority to him affirmed.

Mr. Frank L. Dyer for Story.

Mr. Walter F. Rogers for Cottrell.

SMYTH, *C. J.:*

The invention involved in this interference relates to a feeding mchanism for printing-presses. Cottrell was successful below, and Story appeals. In view of the question upon which our decision turns it is not necessary for us to set forth the counts of the issue.

The Law Examiner overruled a motion by Story to dissolve the interference on the ground that Cottrell could not make the claims. He was sustained by the Examiner of Interferences. On appeal the Board of Examiners ruled in favor of Cottrell, and their decision was affirmed by the Commissioner.

When the interference came before the Commissioner, Story abandoned his contention with respect to priority and rested his case entirely upon the argument that Cottrell could not make the claims. The Commissioner held against him and awarded priority to Cottrell. The line of reasoning pursued by the Commissioner in reaching his conclusion has

been carefully examined by us in the light of the arguments adduced on behalf of Story, and we think the conclusion is sound. It would serve no good purpose to repeat that reasoning here, or to attempt to substitute for it reasoning of our own. The Commissioner's decision is available to anyone who may desire to examine it.

We affirm the Commissioner's decision.

Affirmed.

Changes in Classification.

(ORDER No. 2,651.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., April 30, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 64, Journal-Boxes, Pulleys, and Shafting, (Division XLV,) abolish subclass—

Wheel-mounts—
Movable—
71. Laterally-movable wheel.

The patents formerly contained in this subclass have been placed for the most part in various subclasses in class 191, Electricity—Transmission to Vehicles.

In class 191, Electricity—Transmission to Vehicles, (Division XXXIV,) establish the following subclasses and definitions:

Collectors—
Trolley—
Heads—
Swivel—
60.1. Center bias,
60.2. Lateral swing,
60.3. Vertical swing,
60.4. Axial slide,
60.5. Pole-couplings,
Wheels—
63.1. Quick release,
63.2. Lateral slide,
63.3. Universal mount,
63.4. Slidable pins,
63.5. Pin-fasteners.

60.1. COLLECTORS, TROLLEY, HEADS, SWIVEL, CENTER BIAS. Gravity, spring, or electric devices constantly tending to maintain the swiveled heads in normal or central position and to restore them to such position if swung to either side.

Search this class, subclass 60.2.

60.2. COLLECTORS, TROLLEY, HEADS, LATERAL SWING. The head or harp is pivotally or flexibly connected to the trolley-pole to permit the head to swing transversely relatively to the car and trolley-wire.

60.3. COLLECTORS, TROLLEY, HEADS, VERTICAL SWING. The head or harp is pivotally or flexibly connected to the trolley to permit the head to swing vertically toward or from the trolley-wire.

60.4. COLLECTORS, TROLLEY, HEADS, AXIAL SLIDE. The shank of the head or harp has an axially-slidable connection with the trolley-pole, usually against spring-pressure.

60.5. COLLECTORS, TROLLEY, HEADS, POLE-COUPLINGS. Releasable and permanent fixtures for securing the head or harp to the trolley-pole, not including yielding or pivotal connections, which are found in this class, subclasses 60, 60.1, 60.2, 60.3, and 60.4.

63.1. COLLECTORS, TROLLEY, HEADS, WHEELS, QUICK RELEASE. Articulated sectional trolley-harps to permit the quick release of a trolley-wheel.

63.2. COLLECTORS, TROLLEY, HEADS, WHEELS, LATERAL SLIDE. The trolley-wheel is mounted on an elongated pin or shaft to permit the wheel to slide laterally while running on the trolley-wire.

63.3. COLLECTORS, TROLLEY, HEADS, WHEELS, UNIVERSAL MOUNT. The trolley-wheel is mounted in the harp or on a pin, so as to permit free universal movement of the wheel.

63.4. COLLECTORS, TROLLEY, HEADS, WHEELS, SLIDABLE PINS. The supporting-pins for the trolley-harps are mounted so as to permit up and down or rear and forward movement of the pins in the harps.

63.5. COLLECTORS, TROLLEY, HEADS, WHEELS, PIN-FASTENERS. Devices for fastening trolley-wheel pins or axles in the trolley-harps.

The patents contained in subclass 63.1 above have been taken for the most part from class 64, Journal-Boxes, Pulleys, and Shafting, subclass 67, Wheel-mounts, Quick wheel release, and those contained in the remaining subclasses have been taken for the most part from class 64, Journal-Boxes, Pulleys, and Shafting, subclasses 71, Wheel-mounts, Movable, Laterally-movable wheel, hereinbefore abolished, and 66, Wheel-mounts; 68, Wheel-mounts, Movable; 69, Wheel-mounts, Movable, Universal, and 70, Wheel-mounts, Movable, Pivoted.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,653.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 4, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 1, Nailing and Stapling, (Division XI,) establish the following subclasses and definitions:

Machines—
Shoe—
Nail-driving—
Magazine—
18.1. Multiple drivers,
18.2. Shank-stiffener assembling.

18.1. MACHINES, SHOE, NAIL-DRIVING, MAGAZINE, MULTIPLE DRIVERS. Nailing-machines of the magazine type having a plurality of drivers.

Search this class, subclasses 32, 33, 35, 36, 37, and 38.

Search class—
12—BOOT AND SHOE MAKING, subclass 4, Lasting and nailing machines, Multiple drivers.

18.2. MACHINES, SHOE, NAIL-DRIVING, MAGAZINE, SHANK-STIFFENER ASSEMBLING. Nailing-machines of the magazine type for assembling shoe shanks and stiffeners.

Note.—For machines which attach assembled shanks or stiffeners to a shoe search this class, subclass 19.

The patents contained in these subclasses have been taken from class 1, Nailing and Stapling, subclass 18, Machines, Shoe, Nail-driving, Magazine.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,654.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 4, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 61, Hydraulic and Earth Engineering, (Division XXXIII,) abolish the following subclass, with its definition:

Stable structures in shifting media—
Piles—
Protected—
55. Wood and concrete.

The patents formerly contained in this subclass have been placed for the most part in class 61, Hydraulic and Earth Engineering, subclass 54, Stable structures in shifting media, Piles, Protected, and class 20, Wooden Buildings, subclass 100, Poles and posts, Protected.

In class 61, Hydraulic and Earth Engineering, subclass 54, Stable structures in shifting media, Piles, Protected, abolish the existing definition and establish in lieu thereof the following:

Piles having protective means associated therewith other than wooden piles having mere coatings or jackets.

Note.—For wooden piles of the kind mentioned search class 20, WOODEN BUILDINGS, subclass 100, Poles and posts, Protected.

THOMAS E. ROBERTSON,
Commissioner.

Patents Nos. 1,377,999 to 1,378,830.

THE
OFFICIAL GAZETTE
OF THE
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Vol. 286—No. 3. TUESDAY, MAY 17, 1921. Price—$5 per year.
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Issue of May 17, 1921.

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Labels	3—No.	22,890 to No.	22,892, inclusive.
Prints	1—No.	5,595.	
Reissues	4—No.	15,104 to No.	15,107, inclusive.
Total	1428		

Nolan Act—Order.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., May 25, 1921.

The following order, issued on May 25, 1921, is here published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

(ORDER No. 2,660.)

NOLAN ACT—AMENDMENTS TO PREAMBLE—OATHS.

Recitation of foreign applications and patents in preamble.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 25, 1921.

In all applications filed in the United States more than a year after the filing of a corresponding application, or applications, in a foreign country, or countries, which are allowed or are otherwise ready for allowance, the Examiner will enter an amendment to the preamble, substantially in the following form, varying the words as circumstances demand:

(for which I have filed applications in England, Jan. 10, 1916, Patent No. ————, and in Belgium, March 2, 1916, Patent No. ————,).

The data for this amendment should be taken from the oath and will be entered after the words "have invented certain new and useful improvements in ———" and before "of which the following is a specification." This amendment should be made irrespective of whether a foreign patent has been granted, and the wording will be varied accordingly.

In applications where correspondence is necessary for other reasons the Examiner will require such insertion to be made by amendment.

Application oaths.

Where a foreign applicant is entitled to take the benefits of priority provided by section 1 of the Nolan Act, patents, printed publications, and public use do not constitute bars unless they are prior to the foreign application on which priority is based. An oath executed in the form prescribed by the present Rules of Practice should not be objected to unless the Examiner has knowledge contrary to the averments thereof, in which case a new oath should be required. The following form of oath is approved as meeting the requirements of the Nolan Act:

———— } ss:
———— }

————, the above-named petitioner, being sworn (or affirmed), deposes and says that —— citizen of ———— and resident of ————; that —— verily believes ——— to be the original, first and ——— inventor of the improvement in ———— described and claimed in the annexed specification; that —— does not know and does not believe that the same was ever known or used before —— invention or discovery thereof, or patented or described in any printed publication in any country before his invention or discovery thereof, or patented or described in any printed publication or in public use or on sale in the United States prior to the filing of any foreign application by him, his legal representatives or assigns, and that no application for patent on said improvement has been filed by, nor patent granted to, him or his legal representatives or assigns in any country foreign to the United States, except as follows:

THOMAS E. ROBERTSON,
Commissioner.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 7, 1921.

Monarch Motor Car Company, its assigns or legal representatives, take notice:

A cancelation proceeding has been instituted by this Office upon the application of Lorena W. Robinson, trading under the name of Texas Wheel & Body Company and doing business at 2500 Commerce street, Dallas, Tex., to effect the cancelation of the trade-mark registration of the Monarch Motor Car Company, 1528 Jefferson avenue, Detroit, Mich., No. 100,380, dated October 20, 1914, and the notice of such proceeding sent by registered mail to the said Monarch Motor Car Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Monarch Motor Car Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

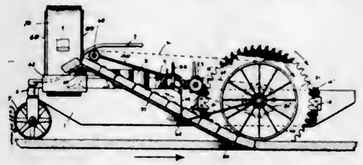
Condition at Close of Business May 7, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders....	Dec. 22	Dec. 20	625
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Oct. 22	1,474
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Sept. 29	674
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 23	Jan. 12	1,441
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Aug. 28	Sept. 20	624
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 1	Feb. 10	780
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 20	Jan. 20	1,288
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 16	Mar. 28	545
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 8	Mar. 23	672
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Nov. 15	Feb. 14	965
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Feb. 7	Mar. 16	425
222	12. Machine Elements	Oct. 2	Feb. 4	944
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 3	Jan. 19	1,466
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Aug. 5	Mar. 25	823
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 24	Sept. 10	1,519
111	16. Radiant Energy; Telegraphy; Telephony	July 15	Oct. 7	1,410
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Nov. 26	Jan. 29	727
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Aug. 2	Nov. 26	1,440
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Aug. 23	Dec. 13	752
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 5	Jan. 13	991
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 9	Feb. 24	477
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Dec. 31	Mar. 16	356
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Sept. 11	Feb. 18	766
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 23	Feb. 5	771
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 19	Mar. 29	235
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 22	Dec. 14	783
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Dec. 7	Feb. 14	921
225	28. Internal-Combustion Engines	Oct. 23	Jan. 8	1,114
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Oct. 1	Feb. 1	630
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Dec. 6	Mar. 25	909
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 3	Oct. 6	1,829
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 3	Feb. 1	1,089
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 8	Feb. 7	678
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	Mar. 28	Apr. 9	207
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Mar. 26	Apr. 5	426
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 8	Dec. 8	1,438
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Nov. 20	Nov. 27	1,560
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Dec. 4	Dec. 2	924
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 15	Aug. 10	1,561
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Oct. 19	Dec. 13	1,587
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Sept. 27	Jan. 6	819
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Sept. 1	Oct. 19	1,822
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	July 26	Aug. 21	1,173
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Sept. 29	Mar. 7	409
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 5	Jan. 26	973
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Nov. 8	Jan. 14	623
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Sept. 21	Nov. 22	1,033
	Oldest new case, June 15; oldest amended, Aug. 10.			
	Total number of applications awaiting action			44,698
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 19	Mar. 29	4,920
	Designs	Sept. 25	Dec. 1	2,056
	Labels and Prints	Jan. 3	Feb. 17	716

PATENTS

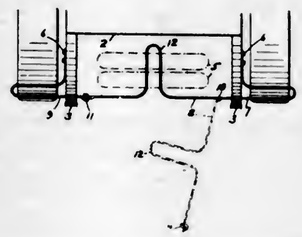
GRANTED MAY 17, 1921.

1,377,999. SALT-HARVESTING MACHINE. GUSTAV A. AICHER, San Francisco, Calif., assignor to Arden Salt Company, San Francisco, Calif. Filed Aug. 9, 1918. Serial No. 249,213. 6 Claims. (Cl. 262—9.)



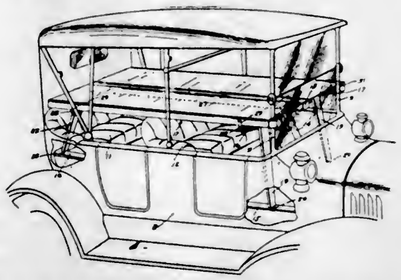
6. A salt harvesting machine comprising a driving mechanism, a wheeled support therefor, a rotary cutter positioned at the outer side of one of said wheels for cutting the salt bed, means for operating said cutter, and a chute adjacent the cutter for picking up the blocks of salt.

1,378,000. BUMPER FOR AUTOMOBILES. SYDNEY K. ALLMAN, Jenkintown, Pa. Filed June 22, 1920. Serial No. 390,946. 5 Claims. (Cl. 293—55.)



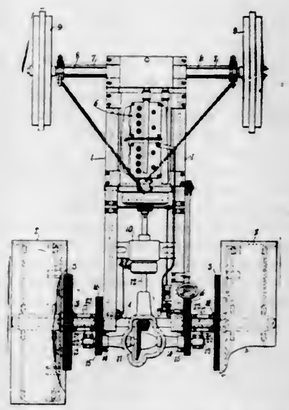
4. The combination with an automobile having a spare tire support thereon, of a rear bumper having a projection connected thereto and wholly supported therefrom, said projection extending forwardly into the open space of the tire support to prevent the removal of a tire, until after the projection has been withdrawn from the open space of the support by the removal of the bumper.

1,378,001. COT FOR AUTOMOBILES. HANS C. ANDERSON, Minneapolis, Minn. Filed Aug. 16, 1920. Serial No. 403,826. 2 Claims. (Cl. 5—72.)



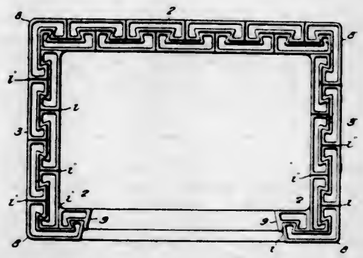
1. A knock-down cot for use in connection with automobiles, comprising front and rear cross rails, side and center rails having detachable interlocking engagement, a canvas applied to said side and center rails, rearwardly extending relatively short legs pivoted to the said rear cross rail and adapted to rest upon the rear seat board of an automobile, forwardly extending relatively long front legs pivoted to said front cross rails and adapted to rest upon the front portion of the floor structure of an automobile, said side rails, at their front ends, having notches for engagement with the wind shield posts of the automobile.

1,378,002. TRACTOR. WALTER L. BARTHELEMY, Dayton, Ohio. Filed Jan. 20, 1919. Serial No. 271,945. 11 Claims. (Cl. 180—54.)



1. In a tractor, the combination, with a frame, of an engine and transmission and differential gearing transferred thereto, said gearing being rigidly mounted on said frame, a shortened drive shaft connecting said gearing, a bracket secured to said frame, a fixed axle and tractor wheels mounted thereon, a cut-off floating axle having fixed bearings in said bracket and reducing gearing, whereby power is transmitted from the engine through said gearing to the tractor wheels.

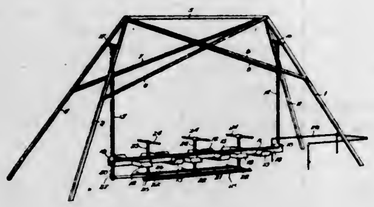
1,378,003. REFRIGERATOR AND METHOD OF MANUFACTURING THE SAME. EDWARD BOEHM, Tampa, Fla. Filed Mar. 20, 1920. Serial No. 367,464. 17 Claims. (Cl. 25—157.)



1. The method of producing a stoneware body, comprising forming said body by fitting together previously-fin-

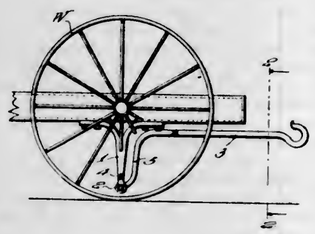
ished stoneware blocks and sealing the joints between the same by fusible cement in a plastic state, and then firing the body as thus built to fuse the cement and thereby unite the blocks.

1,378,004. LAWN-SWING. GEORGE H. BUGENHAGEN, Minot, N. D. Filed Dec. 10, 1919. Serial No. 343,741. 3 Claims. (Cl. 155—63.)



1. A lawn swing comprising a plurality of supporting posts arranged in pairs, the posts of each pair converging together and being secured to a connecting bar at their tops, a cross piece pivoted between the supporting posts of each pair, suspension bars rigidly secured at one end to said cross pieces, a carrier comprising a central supporting member provided with an upwardly extending portion at each end, said upwardly extending portions being pivotally connected adjacent their upper edges to said suspension bars to provide a space between the lower end of each of said suspension bars and the adjacent portion of the carrier, laterally extending seats carried by said supporting member on each side thereof, one of said suspension bars being extended below the carrier, and means mounted on the carrier and pivotally and adjustably connected with said extended suspension bar for propelling the swing.

1,378,005. DRAWBAR FOR TRACTORS. JOHN J. BUKOLT, Stevens Point, Wis. Filed Aug. 16, 1920. Serial No. 403,668. 5 Claims. (Cl. 213—67.)



1. The combination with a tractor frame including depending portions and wheels; of a draw-bar connected to said portions on opposite sides of the longitudinal center of the same, the points of connection being close to the ground and within the space circumscribed by the rim of the wheels.

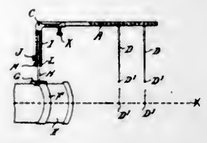
1,378,006. TOOL FOR RESTORING SWAGE-BITS. EDWARD ASA BURPEE, Renton, Wash. Filed Jan. 24, 1920. Serial No. 353,736. 1 Claim. (Cl. 78—6.)

A tool for use in restoring to good working condition a swage-bit whose lips or lip have been bent and otherwise impaired, said tool being a hard metal bar curved and concave at one end thereof, behind which end and through which bar is an elliptical hole that fits loosely over the screw and point of said bit making said curved and concave end adjustable to said lips both when the latter are bent



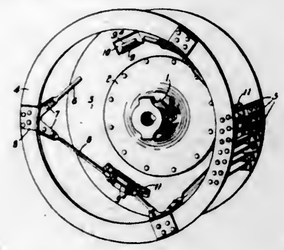
and in normal position, and which bar thence tapers to its other end and is of suitable dimensions for convenient use, substantially as described and shown.

1,378,007. RÖNTGEN-RAY AND LIKE APPARATUS. GEORGE GORING CAMPION, Manchester, England. Filed May 27, 1919. Serial No. 300,151. 1 Claim. (Cl. 250—34.)



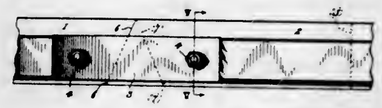
In Röntgen-ray or like apparatus, means for directing the central beam or X-ray of normal incidence comprising a carrier, an adjustable standard adjustably mounted upon said carrier, an arm mounted upon said standard, adjustable pointers slidably mounted upon said arm, and beads carried by said pointers for indicating the path of said central beam.

1,378,008. CENTRIFUGAL FAN. ANDREW H. CANDEE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 21, 1916. Serial No. 126,892. 8 Claims. (Cl. 230—11.)



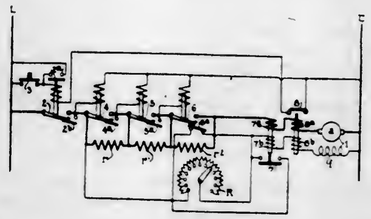
8. A centrifugal fan comprising two spaced annular plates, a plurality of fan blades arranged between said plates, a plurality of bracing members mounted in pairs and extending obliquely from plate to plate, the members of each of said pairs extending in opposite directions, and means mounted on each of said plates for securing said bracing members thereto.

1,378,009. RAIL-JOINT. FRANK O. CANELLA, Mason City, Iowa. Filed Feb. 23, 1921. Serial No. 447,127. 3 Claims. (Cl. 238—231.)



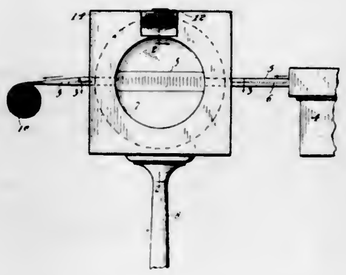
1. In a rail joint of the type described, meeting rail ends having a scarf connection, the abutting ends of the rails having the opposite sides thereof reversely inclined to prevent relative perpendicular movements, and side retaining fish plates for the rail sections, the reversely inclined abutting ends having their apices meeting in a single transverse line at the head of the rail.

1,378,010. MOTOR-CONTROLLER. CHARLES E. CARPENTER, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 5, 1916. Serial No. 123,801. 17 Claims. (Cl. 172—288.)



1. The combination with a motor variable in speed by field regulation, of control means therefor having control windings connected in different branches of the circuit of said motor one being in series with the armature of said motor, said windings providing for variation of the sensitiveness of said control means to variations in armature current according to the field regulation of said motor.

1,378,011. TELEGRAPH REGISTER RECEIVING APPARATUS. NATHANIEL B. CREGIER, Chicago, Ill. Filed Feb. 11, 1918. Serial No. 216,588. 7 Claims. (Cl. 178—1.)



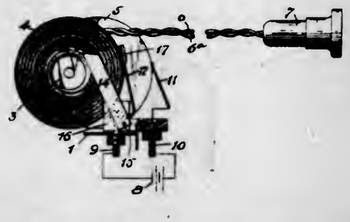
1. A telegraph register receiving and displaying apparatus comprising in combination, an automatically operated printing mechanism, a substantially opaque printing tape therefor, a magnifying lens, and means for directing the printed tape around a portion of the spherical surface of said lens.

1,378,012. ELECTRICALLY-HEATED HAIR-WAVING DEVICE. MARIE JOSEPHINE CULLY, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,782. 6 Claims. (Cl. 219—24.)



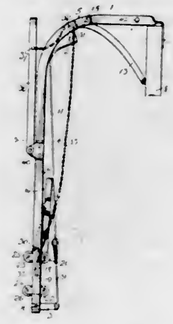
1. A hair-waving device comprising an iron, means for maintaining the iron at a substantially uniform temperature, and means for bending the hair relatively to the iron in two different planes and holding the hair in contact therewith until a permanent set has been imparted to the hair, such bending and holding means allowing the hair to slide freely relatively thereto.

1,378,013. CIGAR-LIGHTER. CHARLES F. CUNO, Meriden, Conn. Filed Nov. 6, 1920. Serial No. 422,176. 2 Claims. (Cl. 200—153.)



1. In an automatic switch, a rotatable device, a spiral cam rotatable thereby, a circuit closer adapted to open and close an electric circuit, means coacting with said spiral cam and adapted to be moved by said cam and also coacting with said circuit closer to control the latter for the purpose of opening and closing the circuit depending upon the position of said means relatively to said cam.

1,378,014. LOADING DEVICE. LOUIS EGER, Brooklyn, N. Y., assignor of one-half to John L. Martin, Brooklyn, N. Y. Filed Aug. 27, 1919. Serial No. 320,200. 5 Claims. (Cl. 214—75.)



1. A device of the class described, comprising a frame having guiding means, a carriage movable on said guiding means, and adapted to carry a barrel or other object, and a lever for raising said carriage arranged to move over and partially around said carriage and the object carried thereby, to permit said carriage to rise and fall.

1,378,015. CONDUIT-PIPE COUPLING. FREDERIC WM. ERICKSON, East Greenwich, R. I. Filed Apr. 30, 1920. Serial No. 377,797. 3 Claims. (Cl. 285—146.)



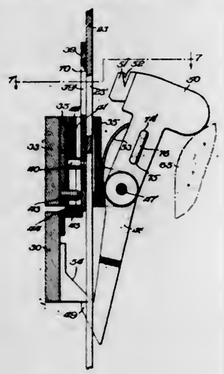
1. A coupling for conduit pipes composed of two bushings and an inclosing and uniting sleeve for the same, each bushing internally and externally screw-threaded and having one or more slits in their outer edges; the inner edges having semi-circumferential lips whose abutting ends are adapted to lock to each other, the said sleeve being internally screw-threaded and adapted to inclose the said bushings and couple them.

1,378,016. BOTTLE-CAP FLUID DISPENSER AND SPREADER. JEREMIAH ERWIN, Chicago, Ill. Filed Dec. 22, 1919. Serial No. 346,519. 2 Claims. (Cl. 91—67.4.)



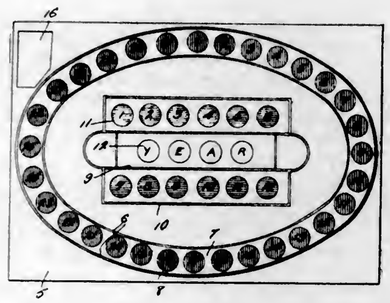
1. In combination, a bottle, a dome-shaped cap closing said bottle, a portion of said cap being flattened to provide a plane surface oblique to the axis of said bottle and at one side thereof, an aperture in the curved surface of said cap, a valve for closing said aperture, a spring for holding said valve in closing position, said spring having a portion attached to the inner wall of the cap, a portion attached to the valve and at an angle to the first named portion and a portion connecting the said two portions and forming a compound curve, all the portions of said spring being in one plane, the flattened portion of said cap being on the side of said aperture opposite the bottle.

1,378,017. DEVICE FOR OPERATING FREIGHT-ELEVATOR HATCH-DOORS. JOHN E. W. FOGAL and CLAUD L. FULGHUM, Quincy, Ill. Filed Feb. 20, 1920. Serial No. 360,206. 15 Claims. (Cl. 187—52.)



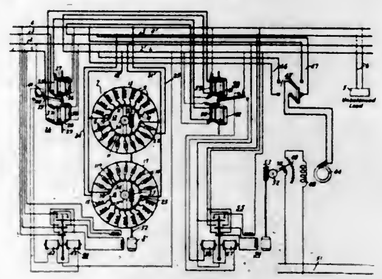
1. A device for operating elevator hatch doors comprising a motor, a cable operated by said motor, a lift bar, a locking device carried by the door for normally locking the door in its closed position, and means for engaging the locking device to throw it out of locking position and into operative engagement with the lift bar, whereby the door is lifted with the latter.

1,378,018. GAME. PATRICK J. FORD, Augusta, Ga. Filed Oct. 29, 1920. Serial No. 420,508. 2 Claims. (Cl. 46—21.)



1. A game apparatus of the character described, comprising a board being provided upon its upper surface with day spaces consecutively numbered, month spaces consecutively numbered, and year spaces, in combination with consecutively numbered day pieces, consecutively numbered month pieces and year pieces.

1,378,019. PHASE-BALANCING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1917. Serial No. 167,086. 12 Claims. (Cl. 172—238.)



1. In a system of transmission comprising polyphase circuits, a phase balancer comprising a group of adjustable elements, two possessing condensive characteristics and two possessing inductive characteristics, said condensive elements alternating in position with the inductive elements to form a closed circuit, means for adjusting said elements to balance the power component polyphase currents, and means for effecting the flow of balanced wattless currents in the polyphase circuits in order to control the power factors of the balanced polyphase currents.

1,378,020. METAL WHEEL. EDWARD FULDA, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Mar. 17, 1919. Serial No. 283,066. 4 Claims. (Cl. 301—64.)

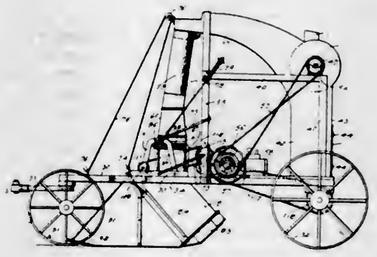
1. In a wheel of the character described, a sheet metal disk having its edge bent over at intervals to engage the

inner surface of the rim and having at intermediate points tongues cut out of the body of the disk and bent



to one side of the plane thereof and engaging the rim to act as struts to resist torsional strains.

1,378,021. COTTON-PICKING MACHINE. ANDREW J. GIPSON, Perkins, Okla. Filed May 17, 1920. Serial No. 381,871. 18 Claims. (Cl. 56—12.)



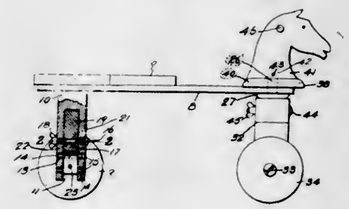
1. In a cotton picker, a pair of laterally spaced rotating cylinders having hollow perforate picking wings disposed spirally thereon, and internally communicating with the cylinder during part of each rotation of the latter, a wheeled frame in which said cylinders are mounted in parallel inclined relation, suction supply means for the cylinders and the hollow wings, and means for rotating the cylinders so that their spiral wings proceed upwardly and rearwardly with respect to the direction of movement of the frame.

1,378,022. TOY. ANTOINE L. GIRARD, West Boylston, Mass. Filed Feb. 19, 1920. Serial No. 359,909. 7 Claims. (Cl. 46—46.)



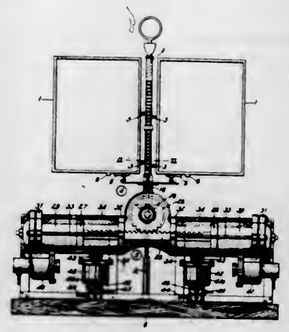
1. A noisemaker formed on a single piece of tubular metal, one part of which extends at right angles with respect to the other, and a horn carried by said tubular member and a whistle carried by said right angularly projecting member.

1,378,023. TOY VEHICLE. FREDERICK HACHMANN, St. Louis, Mo., assignor of one-half to Bernard G. Vieth and one-fourth to David M. Hutchinson, St. Louis, Mo. Filed Apr. 20, 1920. Serial No. 375,311. 3 Claims. (Cl. 208—165.)



2. A toy vehicle, comprising a connecting member, a seat secured to said connecting member, a slotted standard rigidly secured to the connecting member, a rear axle support adjustably secured in the slot of the standard, a pin projecting through the connecting member, a flange formed integral with said pin, said flange contacting with the under side of the connecting member, a cylindrical projection formed integrally with said flange, a front axle support adjustably secured to the pin beneath the flange, a steering handle secured to the pin above the connecting member, and means for holding the axle supports in adjusted position.

1,378,024. DEMONSTRATING DEVICE. ARTHUR J. HALL and CHARLES C. WHITTAKER, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1916. Serial No. 129,286. 9 Claims. (Cl. 40—35.)

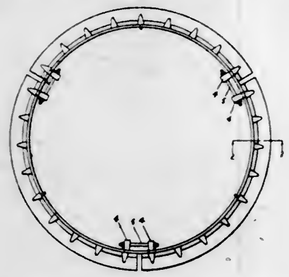


1. A device comprising a plurality of leaves, and means for turning said leaves one at a time comprising a fluid motor having a transparent cylinder, a piston mounted within said cylinder, and an electrically controlled valve for admitting fluid to said cylinder.

1,378,025. WHEEL. EDMUND E. HANS, Kalamazoo, Mich. Filed Mar. 6, 1918. Serial No. 220,827. 1 Claim. (Cl. 152—9.)

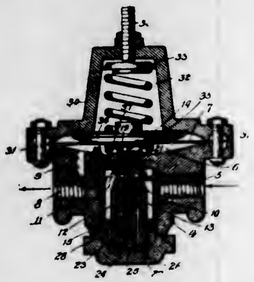
In a wheel, the combination of an apertured rim, a centrally disposed tire cushion made up of segments of rubber cushion supported on metal plates, radially dis-

posed lugs at the end of each plate, disposed through the apertures in the rim, and connecting bolts through the



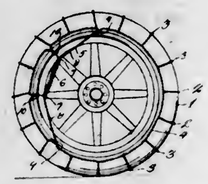
said lugs for retaining the same removably and adjustably in position.

1,378,026. PRESSURE-REDUCING VALVE. CHARLES C. HANSEN, Forest Park, Ill., assignor to Refrigerating Specialties Co., Chicago, Ill., a Corporation of Illinois. Filed June 12, 1918. Serial No. 239,689. 6 Claims. (Cl. 50—23.)



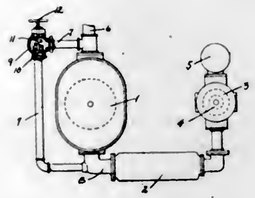
1. A pressure reducing valve comprising a casing, means to connect the casing to a high pressure line, means to connect the casing to a low pressure line, a valve for controlling the passage of fluid to the low pressure connection, a container in which said valve is slidably mounted, and having a valve seat therein, a screw-threaded and metal-to-metal connection between the container and the casing, a piston on the valve slidable in the container, a spring for closing the valve, a diaphragm operated by fluid in the low pressure side of the line for opening the valve, and a cap screw-threaded to the casing and seated therein independently of said cage.

1,378,027. NON-SKID-CHAIN TIGHTENER AND ADJUSTER. WILLIAM ISAAC HARP, Galax, Va., assignor of one-third to John Linn and one-third to R. B. Todd, Galax, Va. Filed Oct. 31, 1919. Serial No. 334,634. 1 Claim. (Cl. 152—14.)



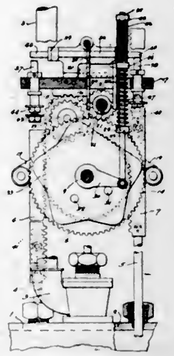
A tire chain tightener comprising chain sections, said chain sections having their adjacent ends secured to the ends of a coil spring, hooks at the free ends of the chains adapted to be hooked into the tire chain at points spaced from each other, and hooks carried by the chains adjacent the ends of the spring and angularly disposed and adapted to be hooked into the tire chain at points intermediate the first named hooks thereby stretching said coil spring and allowing said spring to take up the slack in the tire chain.

1,378,028. COMPRESSOR-OVERLOAD REGULATOR. THOMAS J. HART, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 7, 1918. Serial No. 248,811. 1 Claim. (Cl. 230—24.)



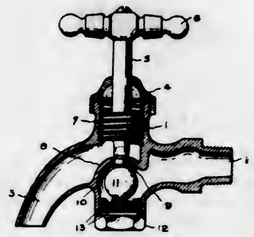
A regulating system for producing a constant quantity of discharge from the high pressure cylinder of a compound compressor without varying the speed or unloading the machine, in which both the intake and the discharge pressures are variable, comprising a low pressure cylinder, an intercooler, and at least one high pressure cylinder, a by-pass from the intercooler to the intake of the low pressure cylinder, and a pressure relief valve in said by-pass, adapted to open communication from the intercooler to the intake of the low pressure cylinder at a predetermined pressure in the intercooler, thereby maintaining constant pressure in the intercooler and constant quantity of intake into the high pressure cylinder.

1,378,029. MEASURING-PUMP. WILLIAM T. HATMAKER, Dayton, Ohio, assignor to The Protecto Pump Company, Dayton, Ohio, a Corporation of Ohio. Filed July 19, 1920. Serial No. 397,491. 14 Claims. (Cl. 74—27.)



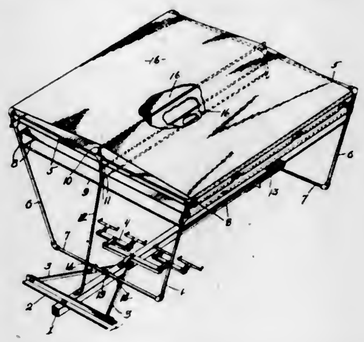
4. In a mechanism of the character described, a pumping device, an operating member therefor, a reversible connection between said operating member and said pumping device comprising a movable member, means for actuating said movable member comprising a part adapted to be connected with said operating mechanism for movement thereby in opposite directions, springs connected with said member of said actuating device, a movable stop to be engaged by one of said springs to cause the latter to be compressed when the movable member of said actuating means is moved in one direction, and means to hold said movable stop against movement until said pumping device has completed its movement in one direction and to then release the same to permit said actuating means to shift said movable member.

1,378,030. VALVE, TAP, AND THE LIKE. JOHN HAROLD HAY, Calgary, Alberta, Canada. Filed Nov. 9, 1920. Serial No. 422,892. 1 Claim. (Cl. 251—140.)



In a valve, the combination of a casing having inlet and outlet connections extending from its sides and an opening in its lower end; a partition dividing the casing into upper and lower chambers and extending from the upper side of the inlet connection to the lower side of the outlet connection, said partition having a passage formed therein having a valve seat on the under side said lower chamber being substantially spherical; a resilient ball valve member loose in the lower chamber adapted to be seated against said seat; and a spindle operating in the upper portion of the casing having its lower end adapted to pass through the passage in said partition to force the valve member from its seat, said lower end having a valve displacer secured thereto and adapted to rock thereon, said displacer having a flat lower surface; and a dished plug closing the opening in the lower end of the lower chamber, said dished plug having a plurality of notches formed in its edge.

1,378,031. HORSE-SHADING ATTACHMENT FOR VEHICLES. VACHEL O. HINTON, Kansas City, Kans. Filed June 28, 1920. Serial No. 392,281. 5 Claims. (Cl. 135—5.)



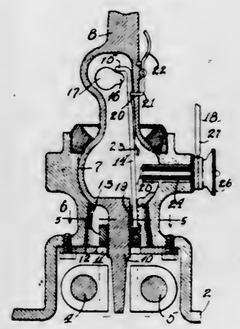
5. The combination with a vehicle having a tongue, of a frame fastened upon said tongue and comprising a rear end frame, a front end frame, longitudinal rods connecting the respective sides of said frames together, means to brace the frame against collapse, longitudinally extending rollers at the sides of said frame in different horizontal planes, rods extending longitudinally of the frame, and flexible superposed shades secured to said rollers and adapted for detachable engagement with the rods at the opposite side of the frame from their respective rollers, the said shades having retractive springs attached to their free ends and equipped with hooks for engaging the said rods.

1,378,032. MAGNETIC SCREWDRIVER. WILLIAM J. HOOD and EUGENE J. HOOD, Toledo, Ohio. Filed Apr. 26, 1920. Serial No. 376,490. 2 Claims. (Cl. 145—50.)



2. In a screw driver a magnetized shank, the end of the shank having a surface extending at right angles to the axis of the shank, and having an insert of non-magnetic metal protruding from the end of the shank a distance not over the depth of the channel of the head of the screw, and means for clamping the insert in position in the end of the shank.

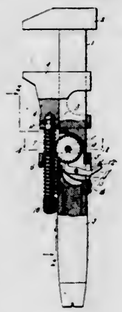
1,378,033. GEAR-SHIFT AND IGNITION LOCK. JOHN H. IMHOFF, Chicago, Ill., assignor, by mesne assignments, to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1916, Serial No. 79,642. Renewed Sept. 18, 1917. Serial No. 192,034. 18 Claims. (Cl. 70—127.)



5. In a lock for a gear shift lever of the class described, the combination with means associated with the pivoted end of said lever acting automatically when released to lock said lever, of electrical contact members adapted to be grounded by movement of said means.

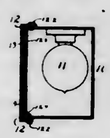
1,378,034. [WITHDRAWN.]

1,378,035. WRENCH. GEORGE C. KOTABA, Chicago, Ill., assignor of one-half to Thomas E. Weaver, Chicago, Ill. Filed July 12, 1920. Serial No. 395,594. 3 Claims. (Cl. 81—133.)



1. A wrench comprising a shank, a fixed jaw on the shank, a movable jaw on the shank, a screw secured to the movable jaw, a pinion mounted in the shank meshing with said screw and a spring-held dog normally locking the pinion against movement.

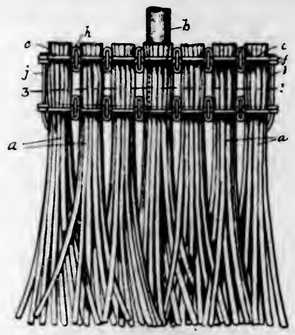
1,378,036. AUTOMOBILE SIGNAL DEVICE. GEORGE F. KREBS, Wichita, Kans. Filed June 12, 1920. Serial No. 388,538. 2 Claims. (Cl. 177—326.)



2. An automobile signal device comprising a case composed of a plurality of compartments, an electric bulb in each compartment, each bulb being on an individual lighting circuit and a circuit closer in said circuit; the exposed face of each compartment having glass retaining rim portions and two glass panes lying contiguous one another in the same plane, immediately behind said rim portions; and backing supports secured to said case and arranged within such compartment against said glass panes to secure said paired panes against such rim portions so as to effectually seal the compartment, one of said backing supports being perforated to provide a stenciled signal, said support being coextensive with one pane in the paired combination, the other pane being uncovered by the backing supports; and giving a signal corresponding to the stenciled signal, the stenciled backing supports of the several compartments differing each from the other as to the signal stenciled thereon, the glass panes immediately in front of said stenciled supports being each of clear glass, while the other glass panes in the device differing each from the other in color, substantially as set forth.

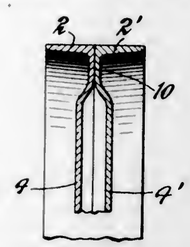
1,378,037. BROOM OR BRUSH. PETER KRUMSCHEID, Boston, Mass. Filed Sept. 6, 1919. Serial No. 322,097. 8 Claims. (Cl. 15—19.)

7. The method of making a brush which consists in providing a holder member having open sockets for the receipt of brush tufts and oppositely-projecting open loops, placing brush tufts in said open sockets, placing a similar and complemental holder member upon the opposite sides of the tufts, and causing the open loop portions of the respective members to overlie one another, and then passing a tool through the openings defined by said over-



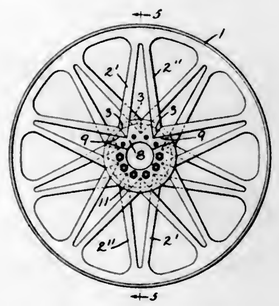
lapping loops and turning the tool so as to bend said loops about one another and to draw the complemental parts of the sockets toward one another against the tufts.

1,378,038. TUBULAR-SPOKE WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 31, 1919. Serial No. 301,023. 4 Claims. (Cl. 301—64.)



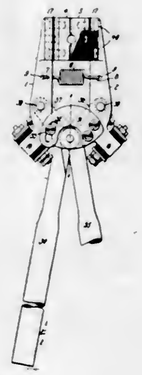
1. A metal wheel consisting of two sections of channel bar assembled back to back and each consisting of a length of bar having its floor part or base slit to form the spokes and its edge bent to the circumference of the rim.

1,378,039. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 15, 1920. Serial No. 381,781. 8 Claims. (Cl. 301—62.)



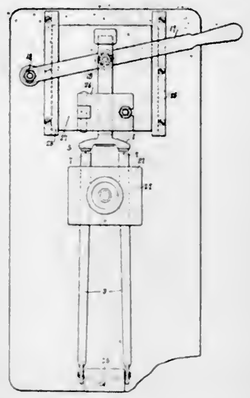
1. A metal wheel comprising integral spokes and rim, each of the spokes being divided longitudinally and spread apart, the ends of alternate spokes being assembled at the hub at opposite ends thereof and practically tangent thereto.

1,378,040. VULCANIZED JOINT. JOSEPH O. LANGGUTH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 28, 1917. Serial No. 183,336. 11 Claims. (Cl. 18—18.)



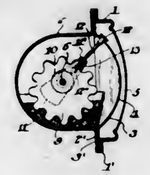
6. A vulcanizing implement comprising two pivotally connected members, working jaws carried by the said members and provided with coöperating pins and openings for preventing relative lateral movement of the said jaws and also provided with coöperating depressions conforming in shape to an object to be vulcanized and with raised flanges surrounding the said depressions, and means for electrically heating the said working jaws.

1,378,041. PROCESS OF MANUFACTURING BICYCLE-FORKS. ELMER M. LEWIS, Dayton, Ohio, assignor to The Davis Sewing Machine Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 321,176. 3 Claims. (Cl. 219—10.)



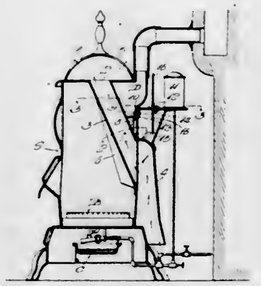
1. In the manufacture of bicycles the herein described process consisting in supporting and alining a bicycle fork head having a weld contact surface, in supporting and alining relative to said head a fork stem having a corresponding weld contact surface, and in causing said surfaces to be brought into contact and in the application of a welding heat to the contacting parts to effect a butt-weld therebetween.

1,378,042. GRADOMETER. HENRY G. LEWIS and WALTER S. MAYER, Philadelphia, Pa., assignors, by direct and mesne assignments, to said Mayer. Filed Oct. 22, 1919. Serial No. 332,457. 8 Claims. (Cl. 33—215.)



1. A gradometer comprising a rim provided with a flange, a shell provided with a flange, a dial clamped between said flanges, an arbor supported in said shell, an oscillatory weight mounted eccentrically on said arbor in said shell, a pointer movable over said dial and means whereby the movement of said weight about its axis moves said pointer proportionately over said dial.

1,378,043. HOT-AIR STOVE. CURTIS C. LILLIBRIDGE, Hutchinson, Kans. Filed Nov. 3, 1919. Serial No. 335,367. 1 Claim. (Cl. 126—70.)

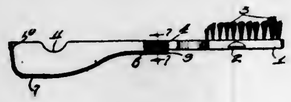


A stove comprising a vertical cylindrical casing having an air inlet opening in its side wall, a hot air outlet opening in its top and a smoke outlet opening in said side wall above said air inlet opening, a hot air circulating pipe in the casing extending upwardly at an incline from said air inlet opening to said hot air outlet opening and provided on its exterior with longitudinally extending fins, an additional downwardly tapered fin carried by said hot air pipe in the angle between the same and the casing wall and forming a support having a horizontal upper end, and a horizontal deflecting plate carried by said fin and extending between the wall and pipe and resting upon the upper end of the supporting fin and curved to conform to the contour of the wall and the adjacent part of the hot air pipe, said plate being provided with a slot extending beyond the sides of the supporting fin to provide an auxiliary air passage.

1,378,044. COLLAPSIBLE TOOTHBRUSH. CONVERSE W. LLOYD, New York, N. Y., assignor to L. Lynn Lloyd, Lincoln, Nebr. Filed June 14, 1918. Serial No. 239,935. 2 Claims. (Cl. 15—39.)

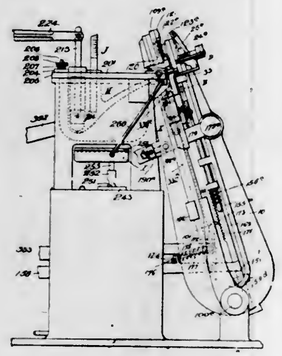
1. In a folding tooth brush, the combination of a handle comprising an elongated hollow casing, tapered to form a contracted channeled extension at one end, a brush having a reduced shank pivoted in the channeled extension

so as to fold down into the cup shaped casing, said shank having the lateral walls angularly related and yieldingly



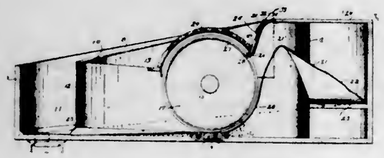
engaged by the side walls of the channeled extension to lock the brush in the unfolded position.

1,378,045. TYPOGRAPHIC COMPOSING-MACHINE. EVERETT M. LOW, Brooklyn, N. Y. Filed Dec. 14, 1916. Serial No. 137,064. 55 Claims. (Cl. 199—47.)



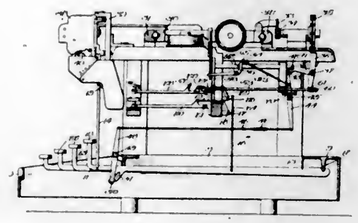
10. In a machine of the class described the combination of a mold, means for confining a line of matrices within certain predetermined limits, including front and back plates, a vise jaw 11 and a vise jaw 3, the latter moving toward and from the mold and having the channel 3^x, said latter vise jaw being adapted to be moved to cause the channel 3^x, to aline with said confining means or be moved out of alinement therewith.

1,378,046. BEATING-ENGINE. ERNST MAHLER, Neenah, Wis. Filed June 14, 1920. Serial No. 388,952. 10 Claims. (Cl. 92—24.)



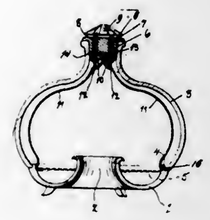
1. A beating engine, comprising a vat member having an inclined bottom portion, a midfeather positioned medially within the vat to form a circular passageway, a beating drum vertically yieldingly extending into the passageway between one side portion of the vat wall and the midfeather, a back fall positioned in the passageway adjacent the drum, the upper portion of said back fall extending in a plane higher than the axis of the drum to move the stock around the passageway at a high speed with relation to the speed of travel of stock in an ordinary beating engine, and a scraper vertically yieldingly positioned between the drum and the back fall for deflecting stock from the drum toward the upper portion of the back fall, said scraper moving vertically with the drum and retaining approximately its relative position with relation thereto.

1,378,047. TYPEWRITING AND CALCULATING MACHINE. OLAF O. MARTIN, Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 7, 1916. Serial No. 70,731. 10 Claims. (Cl. 197—82.)



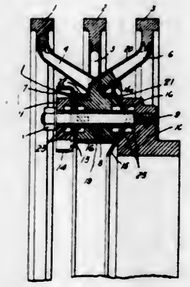
1. In a typewriter calculating machine, the combination of a moving carriage, an escapement therefor, typewriter keys, printing bars operatively connected therewith and a positive linkage adapted to connect said typewriter keys and said escapement on the actuation of any of said keys, whereby a complete cycle of said escapement compels a complete cycle of said key.

1,378,048. INSECT-TRAP. JOSEPH E. MAZIARZ, Buffalo, N. Y. Filed Jan. 15, 1921. Serial No. 437,400. 2 Claims. (Cl. 43—122.)



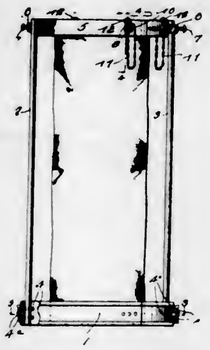
2. A device of the class described comprising a base having an annular chamber therein, a groove on the interior of said chamber, a body adapted to be mounted upon said base, means for retaining said body on said base comprising a pair of members adapted to engage said groove, a stopper adapted to be mounted in the upper extremity of said body, vertical pins slidably mounted in said stopper, a cap rigid with the upper extremities of said pins, a shoulder on each of said members adapted to be engaged by said pins, said members forming the two legs of a single member secured to the lower extremity of said stopper.

1,378,049. CURRENT-COLLECTING DEVICE. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 24, 1917. Serial No. 198,330. 9 Claims. (Cl. 171—322.)



1. A current-collecting device for dynamo-electric machines comprising collector rings mounted on arms of a spider, said arms being incased in insulating coverings.

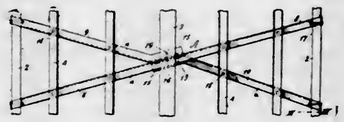
1,378,050. BAG-HOLDER. FIELDS J. MORRIS, Durango, Colo. Filed Sept. 15, 1919. Serial No. 323,731. 1 Claim. (Cl. 83—26.)



A bag holder comprising a supporting frame including a sheet metal ring provided at circumferentially spaced points with openings, above and below which are horizontal apertured ears extending laterally outward from the ring, chains secured to the latter below the lower ears, and passing freely inwardly through the aforesaid openings, bag engaging clamps on the inner ends of the chains, and pins to extend through the apertures in the ears and one of the links of the adjacent chain, permitting the clamps to be adjusted to different positions to accommodate bags of various diameters.

1,378,051. CARLINE. ROY C. MUNRO, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 5, 1919. Serial No. 335,923. 7 Claims. (Cl. 108—5.6.)

1. In a carline for car roofs and the like, the combination of a main L-bar arranged with horizontal top flanges and depending side flanges, and having a central apex, declining thence to the side plates and having its ends formed for engagement with the side plate; and supplementary L-bars having laterally bent inner ends arranged at the sides of said apex with the vertical flanges of all of said bars in contact and secured together to form a frame-supporting apex of triple width, and declining thence, and

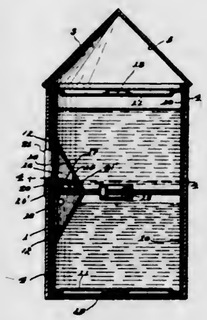


inclining away from said main bar, to the side plates, and having their outer ends formed for engagement with the side plates.

1,378,052. PROCESS OF COATING STEEL SHEETS WITH ALUMINUM. SAMUEL PEACOCK, Wheeling, W. Va., assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Nov. 9, 1920. Serial No. 422,812. 5 Claims. (Cl. 91—70.2.)

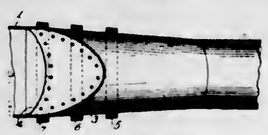
1. The process of coating steel sheets with aluminum which consists in first passing said sheets through a molten bath of a double aluminum alkali metal chlorid, and then through a molten bath of aluminum, substantially as described.

1,378,053. WATERING-FOUNTAIN. CHARLES GUSTAVE PELTIER, Ontonagon, Mich. Filed Sept. 22, 1920. Serial No. 412,015. 6 Claims. (Cl. 119—73.)



1. In a watering fountain, the combination with an upright casing having an opening in its front; of two duplicate tanks for removable insertion into and close fit within said casing, each having an opening in its front and a trough in rear of said opening, and holes through the walls of the trough into the interior of the tank, the height of one tank being such that it supports the other with the mouth of its trough registering with the opening in the casing.

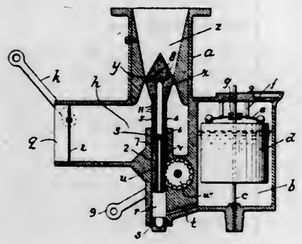
1,378,054. HYDRAULIC-PIPE JOINT. WILLIAM A. PRATT, Bayonne, N. J., assignor to The M. W. Kellogg Co., a Corporation of Delaware. Filed Mar. 27, 1920. Serial No. 369,245. 8 Claims. (Cl. 137—75.)



6. A joint for lateral branch pipes, comprising a main portion and reduced branch portions, the latter having

circular outer ends and flattened surfaces at the inner ends, means for uniting said flattened surfaces, thereby forming a longitudinal retaining member, the combined transverse areas of said inner ends being substantially equal to the area of said larger portion to which they are connected and a plurality of bands surrounding said branch portions for preventing distortion under internal pressure.

1,378,055. CARBURETER. HOWARD CARROLL PUSEY, Swarthmore, Pa. Filed July 16, 1919. Serial No. 311,275. 3 Claims. (Cl. 261—41.)



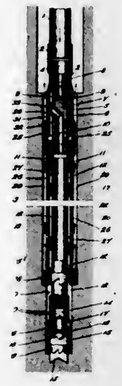
1. A carbureter having a mixing chamber, an air inlet communicating with the mixing chamber, a constant level chamber, a well in communication with the constant level chamber, a hollow plunger extending from the well into the mixing chamber and having an emulsion chamber therein communicating with the mixing chamber, there being a calibrated opening for constantly feeding fuel to said emulsion chamber, a constant air supply for the emulsion chamber, means for lowering the hollow plunger, means for increasing the air supply to the mixing chamber when the plunger is lowered, and other means for feeding fuel and air to the emulsion chamber, said means being arranged to decrease the air supply and increase the fuel supply as the main air supply is increased.

2. A carbureter having a mixing chamber, an air inlet communicating with the mixing chamber, a constant level chamber, a well in communication with the constant level chamber, a hollow plunger extending from the well into the mixing chamber and having an emulsion chamber therein communicating with the mixing chamber, there being a plurality of openings through the wall of the plunger arranged to be successively moved into the well as the plunger is lowered, said openings being arranged to feed either fuel or air to the emulsion chamber, said feed being determined on the position of the plunger, and means for lowering the plunger, the upper end of said plunger being arranged to increase the air supply to the mixing chamber when it is lowered.

3. A carbureter having a float chamber, a fuel well in communication with said float chamber, an air inlet, a mixing chamber in communication with the air inlet, a plunger movable within the well, a Venturi tube in the mixing chamber, there being an emulsion chamber within the plunger, openings through the wall of the plunger arranged to communicate either with the air chamber in the carbureter or the well, a valve head on the upper end of the plunger, there being openings through said head in communication with the emulsion chamber and also opening to the mixing chamber, and means for raising and lowering the plunger for increasing the fuel fed to the emulsion chamber, and, at the same time, increasing the amount of air fed to the mixing chamber.

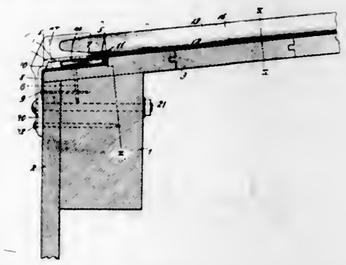
1,378,056. DRILLING APPARATUS. WARREN B. REED and WALTER HEPLER, Morgan City, La. Filed June 21, 1920. Serial No. 390,494. 8 Claims. (Cl. 255—61.)

1. In an apparatus of the class described the combination of a cutter member; a second cutter member adapted to operate in advance of said first cutter member; means whereby fluid may be supplied to said first cutter member to remove the cuttings therefrom; and means adapted



to receive the cuttings produced by said second member, and to maintain them out of contact with said fluid; substantially as described.

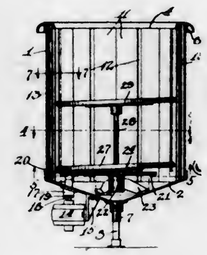
1,378,057. CAR-ROOF. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1919. Serial No. 332,475. 7 Claims. (Cl. 108—5.4.)



1. In a car roof, the combination of a roof frame, a top sheathing carried thereby, roof sheets united in a loose seam which permits individual movement of each sheet, the eaves ends of the roof sheets being formed with downwardly and inwardly bent hooked flanges, an eaves hook strip attached to the body of the car near the eaves and formed with outwardly extending hooked flanges which are loosely engaged with those of the roof sheets, an eaves flashing having a vertical flange which is directly engaged with and confines the side sheathing of the car and having a top flange which enters the eaves seam above a portion of the eaves hook strip and below the hooked flange of the roof sheets, and a seam clip attached directly to the side sheathing and inclosing and supporting the outer end of the seam cap and loosely confining the eaves ends of the roof sheets.

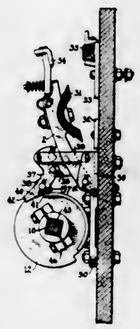
1,378,058. PEELING-MACHINE. FRANK M. SCHAEFER, Chicago, Ill. Filed Feb. 13, 1919. Serial No. 276,759. 3 Claims. (Cl. 146—14.)

1. In a vegetable peeling machine, a container, an abrasive disk having a hub rotatably mounted in the lower part of said container, said hub having an aperture, a second abrasive disk above the first disk and having a



shaft removably secured in said aperture, and means for rotating said first disk.

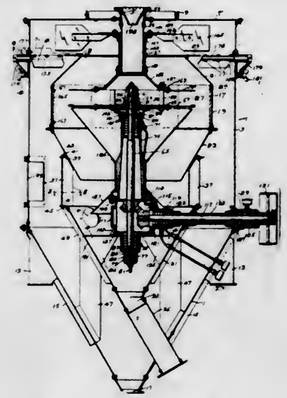
1,378,059. CIRCUIT-CONTROLLER. ARTHUR SIMON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 15, 1915. Serial No. 28,406. 10 Claims. (Cl 200—6.)



1. In combination, a pivoted switch member biased to open position, an arm pivoted thereto and extending outwardly therefrom, a link element having one end pivotally connected to the outer end of said arm and its opposite end pivoted at a fixed point, said arm being normally disposed at an acute angle to said link element and being movable through a position wherein its pivot points are in alinement with the pivot points of the latter to move said switch member into closed position with a toggle action and to lock the same therein, and a cam operable to move said arm in opposite directions to effect opening and closing movements of said switch member.

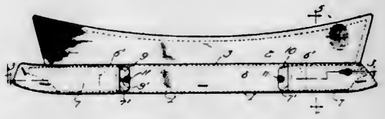
1,378,060. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed June 14, 1920. Serial No. 388,728. 14 Claims. (Cl. 83—40.)

1. An air separator comprising outer and inner casings providing communicating separating and collecting chambers having upper and lower openings between them, means to introduce materials to be graded into the separating chamber, means to cause a current of air to circulate up through the separating chamber and down through the collecting chamber and carry the finer materials separated into the collecting chamber, whirl pro-



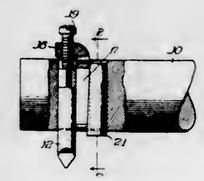
moting vanes adjacent the upper opening of the collecting chamber, and whirl promoting vanes adjacent the lower opening of the collecting chamber.

1,378,061. SOFT COLLAR. CHARLES F. J. SWAIN, Chicago, Ill. Filed Apr. 9, 1919. Serial No. 288,827. 2 Claims. (Cl. 2—67.)



1. In a soft removable shirt collar, having a neck band and an outer flap secured to the band; a longitudinal pocket at each end of the band having an opening transversely thereof between the ends and the central portion of the collar, a separate flexible stiffening strip longitudinally slidable in said pockets, and means on the band to engage the ends of each of said strips and hold the same in said pockets.

1,378,062. MEANS FOR SECURING TOOLS IN BORING-BARS. AXEL R. SWANSON, Chicago, Ill. Filed Sept. 12, 1918. Serial No. 253,783. 7 Claims. (Cl. 29—96.)



7. In combination a boring bar having a pair of apertures therethrough and having a slot therein connecting said apertures, a cutting tool mounted within one of said apertures, and a pair of co-acting wedge members, one of said wedge members being mounted in the slot and the other in one of the apertures, adapted to secure said cutting tool in position, one of said wedge members being secured against longitudinal movement.

1,378,063. INTERFOLDED-PAPER PACK. CLYDE E. SWICK, San Francisco, Calif., assignor to Hawley Pulp and Paper Company, a Corporation of Oregon. Filed Dec. 21, 1917. Serial No. 208,286. 6 Claims. (Cl. 206—57.)



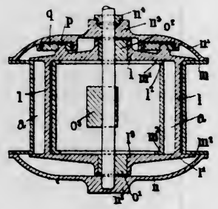
1. A paper pack comprising interfolded webs of paper, said webs being partially severed at alternate points along their lengths, the portions of each web intermediate its partially severed points inclosing the partially severed points of the other web.

1,378,064. PROCESS OF FORMING MOLDS FOR DENTISTS' USE. GIUSEPPE E. TERRANOVA, New Haven, Conn. Filed Oct. 28, 1920. Serial No. 420,078. 1 Claim. (Cl. 32—6.)



The process of forming molds for dentists' use consisting in forming a mold of plastic material in a flexible cup and then expanding the sides of the cup to permit the removal of the mold.

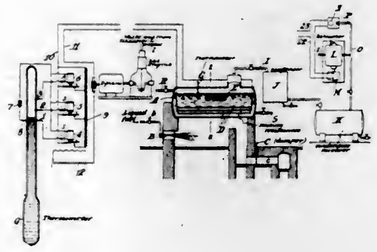
1,378,065. ROTARY ENGINE OR PUMP. CROMWELL HANFORD VARLEY, Chilworth Hill, near Guildford, England. Filed Aug. 31, 1920. Serial No. 407,259. 10 Claims. (Cl. 103—44.)



1. In a combination in a rotary engine or pump a conduit of substantially uniform transverse section throughout its length disposed around an axis in a figure approximating to a single turn of any configuration, a band-like displacer element of similar figure to said conduit positioned and movable therein normally to said axis, and means arranged at various positions relative to the axis of the displacer for similarly constraining the relative movement of said displacer and conduit elements so that every point of the former moves within the latter in a circle, the diameter of which is less than the breadth of the conduit.

1,378,066. APPARATUS FOR HEATING LIQUID HYDROCARBONS IN DISTILLING AND OTHER PROCESSES. ALBRECHT FRIEDRICH GEORG CARL PAUL JOSEF VON GROELING, New York, N. Y., assignor to National Refining Corporation, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 21, 1918. Serial No. 267,766. 8 Claims. (Cl. 219—19.)

1. In an apparatus for the purpose described, a still for liquid hydrocarbon, an electrical heating-resistance in the still, means for supplying current to the heating-resistance, an automatic means, responsive to the temperature



in the still, for controlling the flow of current in the heating-resistance to maintain a desired temperature in the still.

1,378,067. NECKTIE. MERVIN F. WALT, Huron, S. D. Filed Mar. 15, 1920. Serial No. 365,774. 5 Claims. (Cl. 2—11.)

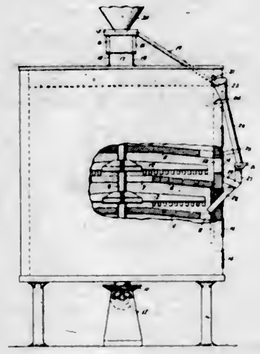


3. A neck tie comprising an outer cover of fabric, and an inner lining disposed within said outer cover, said inner lining consisting of end strips of fabric, and an intermediate strip of elastic material secured at its ends to said end strips, said intermediate strips having an elongated opening formed therethrough intermediate its length and intermediate the side edges thereof.

1,378,068. FEEDING DEVICE FOR ROASTING-FURNACES. WILLIAM FRANCIS WEEKES, Linwood, Pa., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed July 29, 1919. Serial No. 314,155. 3 Claims. (Cl. 263—26.)

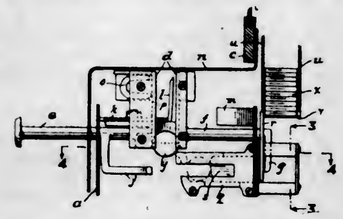
1. The combination of a furnace having a plurality of superposed hearths and wall openings in registry therewith, means located upon the top of the furnace for receiving material and a plurality of coöperating chutes

arranged in series and communicating with said receiving means whereby material is conducted from said receiving



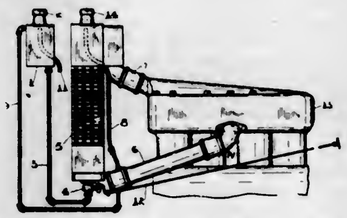
means and delivered through a wall opening to a hearth other than the top one.

1,378,069. COIN-ACTUATED DISPENSING APPARATUS. MORRIS WEINER, Philadelphia, Pa. Filed Dec. 24, 1919. Serial No. 347,099. 6 Claims. (Cl. 194—80.)



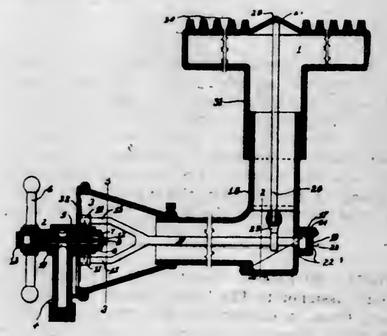
1. A coin actuated dispensing apparatus comprising a movable coin receiver having a coin slot extending therethrough, spring means for retaining the movable coin receiver in its retracted position, a fixed coin receiver extending over one edge of the coin slot in the movable receiver and forming a stop for the proper coin, a coin slot in the fixed coin receiver arranged to receive the coin from the movable coin receiver after the movable coin receiver has been advanced a short distance, a dispenser slidably mounted in the slot of the fixed coin receiver and arranged to be engaged by the coin, and means movable with the movable coin receiver to actuate the dispenser through the medium of the coin.

1,378,070. WATER-COOLING SYSTEM FOR INTERNAL-COMBUSTION MOTORS. DIDRIK WELGE, Mason, Nev. Filed July 21, 1919. Serial No. 312,352. 4 Claims. (Cl. 123—174.)



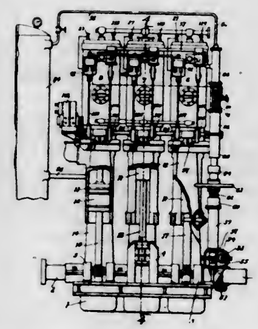
1. The combination with the radiator of the cooling system of an internal combustion motor of a tank located above the level of the bottom of the radiator; a water connection between the bottom of the tank and the bottom of the radiator; and an overflow pipe leading from the top of the radiator to the tank.

1,378,071. GAS-BURNING STOVE. CHARLES H. WERLIN, Columbus, Ohio. Filed May 5, 1919. Serial No. 294,934. 3 Claims. (Cl. 158—99.)



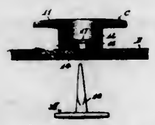
3. In a gas stove, a valve structure, a conduit leading from said valve structure and terminating in an upstanding portion, a burner member telescoping upon said portion, a shaft positioned within said conduit and extending co-axially with said valve structure, means whereby said shaft will be caused to rotate in unison with said valve structure, a stem located in parallelism within said burner member and operating to support the latter, and means connecting said shaft to said stem to raise and lower the burner member in proportion to the extent of gas flow through the valve structure.

1,378,072. INTERNAL-COMBUSTION ENGINE. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 27, 1917. Serial No. 144,970. 9 Claims. (Cl. 123—41.)



1. An operating gear of the character described for internal combustion engines operating on the retarded combustion cycle, comprising means for actuating the auxiliary valves thereof; means for operating said actuating means for said auxiliary valves; means for varying the working operations of said auxiliary valve actuating means; and means for holding said valve actuating varying means in set position with the engine; and means cooperating with the shifting means for opening the supply of the medium to be transferred through said auxiliary valves.

1,378,073. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 16, 1920. Serial No. 358,882. 3 Claims. (Cl. 24—94.)



1. A button of the character described, comprising a body formed of non-metallic material and including a head, a hub, and a base, the latter being provided with an opening therethrough adapted to receive the prong of a metallic fastener therein and a metallic reinforcement provided with an opening in alinement with the opening of the base and adapted to receive the headed portion of the prong of the fastener thereagainst and protect the base from abrasion by the headed portion of the prong.

1,378,074. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 16, 1920. Serial No. 358,883. 2 Claims. (Cl. 24—95.)



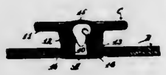
2. A button of the class described, comprising a body portion formed of a hard non-metallic material, of uniform color throughout, a metallic anchor located therein, a non-metallic and slightly resilient anvil, contacting with said anchor, and a metallic cap, engaging said body portion, and holding said anvil in place.

1,378,075. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 16, 1920. Serial No. 358,884. 3 Claims. (Cl. 24—95.)



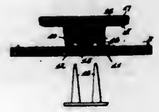
3. A button of the class described comprising a body portion formed of non-metallic material, having an opening extending therethrough and enlarging at its upper extremity, a metallic anvil located upon the top of said body, and a top engaging said body and holding said anvil in place.

1,378,076. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 16, 1920. Serial No. 358,885. 1 Claim. (Cl. 24—95.)



A button of the class described for use with automatic button attaching machines, comprising a body portion including a top, a hub, and perforated base, formed of non-metallic material, of uniform color throughout, and a metallic cup-shaped anchor secured within said hub, having an open ended cavity in alinement with the opening in said base.

1,378,077. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 16, 1920. Serial No. 358,886. 3 Claims. (Cl. 24—95.)



1. A button comprising a body, including a hub having an imperforate base and provided with a groove therein, an imperforate non-metallic anchor fitting within and substantially filling said hub.

1,378,078. VEGETABLE GLUE AND PROCESS OF MAKING THE SAME. FREDERIC S. WILLIAMS, Chicago, Ill., and JAMES G. B. PERKINS and JULIUS B. B. STRYKER, Lansdale, Pa., assignors to Perkins Glue Company, a Corporation of Pennsylvania. Filed Oct. 9, 1917. Serial No. 195,544. 12 Claims. (Cl. 87—17.)

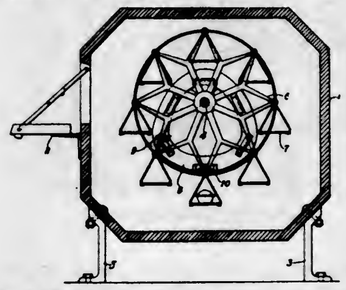
1. The improved vegetable glue comprising a starchy carbohydrate in solution in about 3 parts or less by weight of water and containing a salt of an alkali metal and a siliceous filler and being substantially neutral and having substantially the properties of animal glue for gluing up veneers.

1,378,079. FINGER-GRASPING RAZOR-BLADE HOLDER. JOHN A. WILLIAMSON, Denver, Colo. Filed June 22, 1920. Serial No. 390,937. 2 Claims. (Cl. 30—12.)



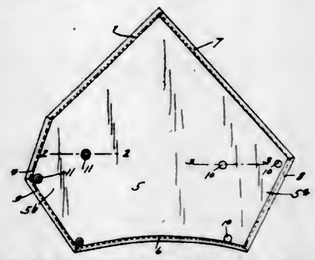
1. In a finger grasping razor blade holder, a razor blade and a suitable finger grasping plate form of holder for securing said razor blade in shaving positions, said holder being provided with means including a bottom and back conforming housing for securing the razor blade against displacement therefrom, said means including a stationary back plate member against which the razor blade rests, said back member being provided with ribs on its outside surface arranged to define the shaving angle of the razor blade, and a flat base portion against which the bottom or heel edge of said razor blade bears, said finger grasping portion comprising a thin bottom plate portion extending laterally from the said heel portion of said holder a short distance, and then being bent in a small curve upon itself, and extended forwardly in a resilient top plate portion to close to the razor blade, slots through the bottom flat portion of said holder, a loose housing plate bearing against the inside surface of said razor blade and provided with lugs extending through the slots in said bottom plate, and pivotally bent up against said bottom plate and arranged to allow said plate to be moved against said razor blade, the adjacent end of said top plate member of said holder being arranged to bear against said loose housing plate with a resilient tension and arranged to clampingly hold said razor blade against said stationary back, a screw threaded through the bottom plate of said holder and bearing against the underside of said resilient top plate for forcing said top plate against said pivotally swinging plate.

1,378,080. ELECTRICALLY-HEATED BAKE-OVEN. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Sept. 24, 1920. Serial No. 412,485. 5 Claims. (Cl. 219—35.)



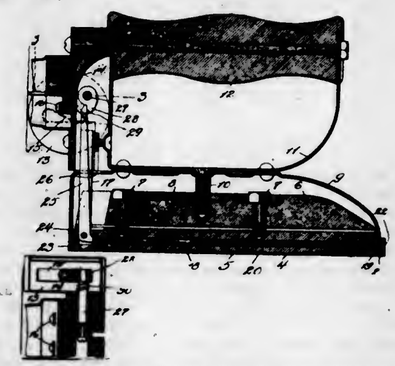
1. In a baking oven of the reel type, the combination with an outer casing, a shaft therein, a rotatable reel secured to said shaft, and a plurality of spaced trays secured to said reel, of electric heating means located inside of the path of travel of said trays.

1,378,081. SLEEVE-PROTECTOR. BEATRICE YAEGER, Columbia Heights, Minn. Filed May 31, 1918. Serial No. 237,396. 1 Claim. (Cl. 2—95.)



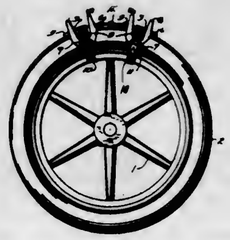
A sleeve protector comprising a body portion and a pair of substantially triangular flaps adapted to fold, one over the other and over the body portion, a fastener for securing the flaps together at the wrist portion of the protector, a fastener for securing an extension of one of the flaps to the overlapped portion of the other flap, and an additional fastener for securing the other flap to the overlapped portion of the first mentioned flap.

1,378,082. AUTOMATIC CONTROL FOR ELECTRIC IRONS. CHARLES B. YOREK, Webster Groves, Mo. Filed Apr. 19, 1920. Serial No. 374,988. 2 Claims. (Cl. 219—25.)



1. In combination with an electric iron having a circuit controlling switch, a switch operating means comprising a cam for engagement with the circuit making and breaking device, a bell crank for engagement with the cam and a rod, susceptible of linear expansion by heat, acting upon said bell-crank.

1,378,083. TRACTION DEVICE. HARRY G. ANDERSON, Chicago, Ill. Filed Feb. 11, 1920. Serial No. 357,800. 2 Claims. (Cl. 152—14.)

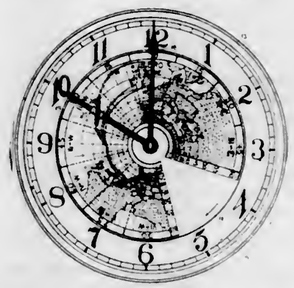


1. In a traction device for vehicle wheels, a pair of shoes, each shoe comprising a curved plate terminating at one end in a hook and at its opposite end in an ear, each plate being formed also with an enlarged lateral ear, the lateral ear of one plate being disposed upon its side remote from the other plate, spaced upstanding lugs formed upon each plate, a tooth struck from each plate between its lugs, and a sprocket chain adapted for engagement with the teeth of each pair of shoes to adjustably secure the same together and to the vehicle wheel.

1,378,084. REFINING SULFUR. RAYMOND F. BACON and CALVIN N. WENRICH, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Oct. 6, 1919. Serial No. 328,902. 3 Claims. (Cl. 23—10.)

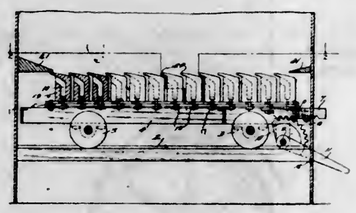
1. The method of obtaining from mined sulfur, a sulfur product particularly adapted for shipment or transfer, which comprises maintaining a body of the sulfur at a temperature ranging from about 115° to 130° C. and supplying it in the form of drops into a body of cooling liquid at such a rate compared with the volume and boiling temperature of the liquid that the drops will coagulate into pellet form; substantially as described.

1,378,085. GEOGRAPHICAL CLOCK. SAMUEL W. BALCH, Montclair, N. J. Filed June 29, 1918. Serial No. 242,564. 3 Claims. (Cl. 58—43.)



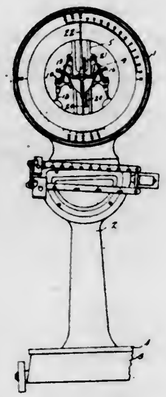
1. A disk bearing a map of a portion of the earth's surface so projected that the angular spacing with respect to the center of the disk of any two portions will be double their difference in longitude, in combination with a concentric dial bearing twelve hour designations in a complete circle in consecutive order in the west to east direction of the map, the dial and disk being capable of being angularly set with respect to each other, substantially as described.

1,378,086. GRATE. ERIK J. BERGE, Bayati, Cuba. Filed Mar. 13, 1918. Serial No. 222,228. 4 Claims. (Cl. 126—153.)



1. In a furnace construction, a fire box, a carriage removably disposed within said fire box, grate bars, a frame secured to said grate bars and composed of parts pivotally secured together and relatively adjustable to vary the length of the frame, thereby varying the distance between the grate bars, and manually operable means mounted on said carriage and engaging said frame for adjusting the latter.

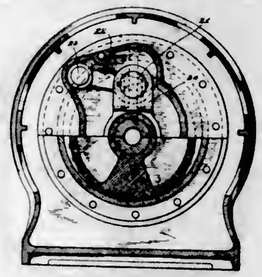
1,378,087. WEIGHING-SCALE. HARRY S. BERGEN, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 23, 1916. Serial No. 127,250. 10 Claims. (Cl. 265—62.)



1. In a weighing scale and in combination with the indicating mechanism thereof, a vertically-movable frame, a rack arranged thereon to actuate the indicating mechanism, means for adjusting the position of the rack vertically relative to the frame, a load-offsetting pendulum and knife edge pivots on which said pendulum is mounted, said pendulum being connected to and adapted to roll upon the vertically-movable frame.

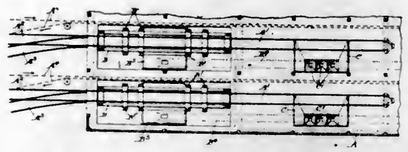
1,378,088. DRIVING MECHANISM FOR ROTARY MACHINES. ALEXANDER B. BOYER, Riverside, Ill., assignor, by direct and mesne assignments, to American Rotary Engine Co., Grand Rapids, Wis., a Corporation of Wisconsin. Filed Mar. 29, 1920. Serial No. 369,652. 9 Claims. (Cl. 230—30.)

1. In a driving mechanism, the combination of a rotary machine comprising two members one within the other in eccentric relation forming an inclosed compartment between them and a diaphragm carried by one of said members crossing said compartment and engaging slides carried by the other member, said slides having rocking motion about an axis of oscillation, an arm rig-



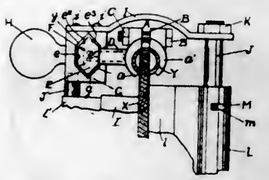
idly secured to said other member outside of said compartment, and a link pivotally connecting said arm and said one member.

1,378,089. GRAIN-CAR-HANDLING APPARATUS. THOMAS D. BUDD, Chicago, Ill., assignor of one-half to Link-Belt Company, Chicago, Ill., a Corporation of Illinois, and one-half to James Stewart & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 3, 1918. Serial No. 226,534. 13 Claims. (Cl. 214—44.)



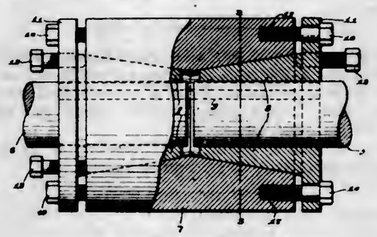
1. A grain handling apparatus comprising a track for the storage of loaded cars, a track for the storage of unloaded cars, said tracks being joined at one end, a single unloading track connected to the pair where they join, the tracks for the loaded and for the unloaded cars extending in the same general direction, a car dumping cradle and a hand unloading pit arranged along the unloading track.

1,378,090. WINDSHIELD-WIPER FOR VEHICLES. JOHN W. CAIN, Chicago, Ill. Filed July 29, 1918. Serial No. 247,129. 2 Claims. (Cl. 15—59.)



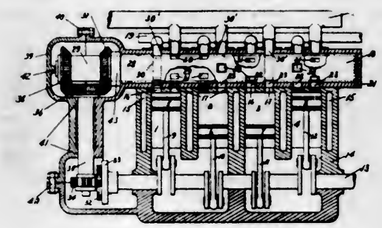
1. In a wiper for wind shields, in combination, clamps adapted to grip a wind shield frame, each comprising a plurality of members, a projecting lug on one of said members of each clamp, a track, means to secure said track to said lugs, a block slidably mounted on said track, said block provided with an undercut groove therein corresponding in cross section with the cross section of said track, the open side of said groove being adapted to pass said lugs, said clamps and lugs arranged to position said track to one side of said frame, a member on said slidable block extending over said frame to the other side thereof, a rod secured to the end of said member, and a wiper mounted on said rod.

1,378,091. SHAFT-COUPLING. EINAR F. CARLSEN, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,313. 2 Claims. (Cl. 287—114.)



1. A shaft coupling comprising a sleeve having oppositely inclined surfaces on the inside, shaft-gripping jaws seating in the sleeve and having their exterior surfaces inclined to correspond to the inclined surfaces of the sleeve, the outer ends of the jaws having lateral flanges facing the ends of the sleeves, bolts passing through the flanges and screwed into the sleeve ends, and set screws threaded through the flanges to engage the sleeve ends.

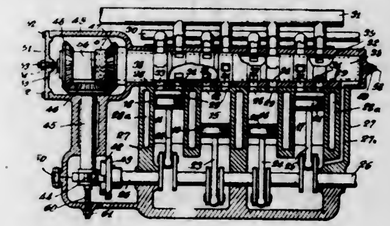
1,378,092. INTERNAL-COMBUSTION ENGINE. HAROLD J. CARMODY, Brooklyn Manor, N. Y., assignor of one-half to Joseph A. Faurot, New York, N. Y. Filed Apr. 26, 1918. Serial No. 230,875. 6 Claims. (Cl. 123—59.)



1. In a device of the character described the combination of a pair of valve members disposed concentrically to each other and revoluble upon a common axis, said valve members each being provided with transversely disposed ports located in different planes crossing said axis, some ports of each valve being staggered so as to cross other ports of the same valve, and a plurality of engine cylinders each provided with an inlet port located in one of said planes and with an exhaust port located in another of said planes, the arrangement being such that by the rotation of said valve members first a pair of transverse ports in one plane are brought into registry with an inlet port of the engine, and then a different pair of transverse ports in another plane of the same valve, crossing the ports thus brought into registry with the inlet port of the engine are brought into registry with an exhaust port of the engine.

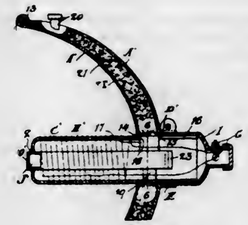
1,378,093. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HAROLD J. CARMODY, Brooklyn Manor, N. Y., assignor of one-half to Joseph A. Faurot, New York, N. Y. Filed June 29, 1918. Serial No. 242,517. 4 Claims. (Cl. 123—59.)

2. In an internal combustion engine the combination of a revoluble valve sleeve provided with ports, a second revoluble valve sleeve provided with ports adapted to be brought into and out of registry with said first mentioned ports, a collar carried by said second mentioned



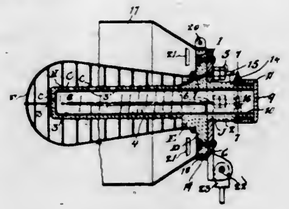
valve sleeve and adjustable relatively thereto, said collar being normally abutted by the adjacent end of said first mentioned sleeve.

1,378,094. METHOD OF AND MEANS FOR TREATING AIR. EGERTON RYERSON CASE, Toronto, Ontario, Canada. Filed Mar. 22, 1920. Serial No. 367,905. 20 Claims. (Cl. 219—38.)



1. The method of treating air for various purposes, which consists in supplying a treating agent to air into which is passed reflected heat waves or rays, generated by electric current.

1,378,095. ELECTRIC DEVICE FOR TREATING AIR. EGERTON RYERSON CASE, Toronto, Ontario, Canada. Filed Mar. 22, 1920. Serial No. 367,906. 14 Claims. (Cl. 219—38.)

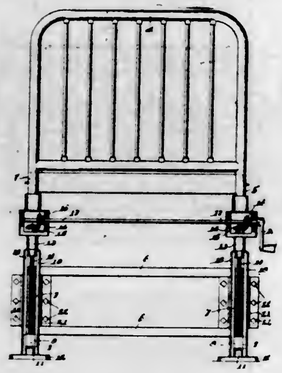


1. A device of the class described and for the purpose set forth including means for carrying a treating agent for air at large, and portable means whereby the same is electrically heated so that one end of said means will have a higher temperature than the other end.

1,378,096. BED-ELEVATING DEVICE. FRANK J. CHAT, Chicago, Ill., assignor to Harry R. Gibbons, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,666. 5 Claims. (Cl. 5—44.)

1. In a device of the class described, a frame adapted to be attached to a bed; threaded upright members rota-

tively mounted in bearings secured to said frame, and adapted upon rotation, to adjust the elevation of said



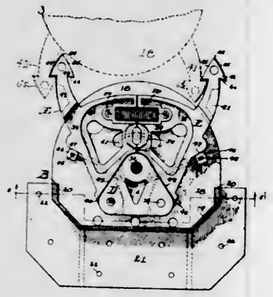
bed; a base for pivotally supporting each upright member and means of rotating said upright members, substantially as described.

1,378,097. STYLUS-BAR MOUNTING. HARRY J. DURBOROW, Philadelphia, Pa., assignor of one-half to Bayard L. Winders, Philadelphia, Pa. Filed July 16, 1920. Serial No. 396,673. 3 Claims. (Cl. 274—35.)



1. The combination with a sound box having a diaphragm casing and a diaphragm therein, of a stylus bar mounting including a plate having a stylus bar extending therefrom for attachment with the diaphragm; means providing a fulcruming contact between the plate and the casing; springs having looped end portions connected to said plate and central portions between said looped portions; and means for connecting said central portions to said casing independently of said plate; substantially as described.

1,378,098. CAR-COUPLING. MARVIN L. ECKHART, Attica, Ind., assignor to National Car Coupler Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1920. Serial No. 355,062. 16 Claims. (Cl. 213—17.)

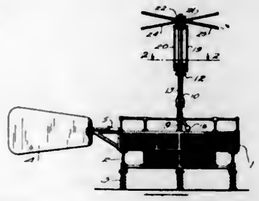


1. A car coupler comprising a housing, means for securing the housing to the car, a fulcrum plate pivotally mounted within the housing, a pair of fulcrum arms each pivotally secured at its rear end to said plate and provided at its outer end with a coupling jaw projecting beyond the margin of the housing and means independent of the plate for operatively holding the fulcrum arms together.

1,378,099. FLAVORING AND PERFUMERY EXTRACT. GUSTAVUS J. ESSELEN, Jr., Swampscott, Mass., assignor, by mesne assignments, to D. & L. Slade Company, Boston, Mass. Filed June 5, 1920. Serial No. 386,779. 5 Claims. (Cl. 99—11.)

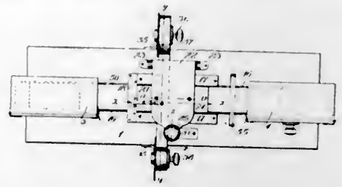
1. A solution consisting of an essential oil or the like dissolved in an ester of glycerin and acetic acid.

1,378,100. FLYING-MACHINE. DANIEL FENSKE, Milwaukee, Wis., assignor of one-half to John C. Kleist, Milwaukee, Wis. Filed Dec. 15, 1919. Serial No. 344,848. 1 Claim. (Cl. 244—19.)



In a flying machine, a basket, a motor driven sectional shaft carried by said basket, a sleeve support, one shaft section rotating in said sleeve, teeth formed along one face of said sleeve support, a hand lever fulcrumed to said sleeve support and formed with a pawl in engagement with the teeth of said sleeve support, a block slidably keyed to the last named shaft section and rotating therewith, pitmen connecting said block and hand lever, and shafted wings carried by said block and adjustable relatively thereto through movement of said block relative to its shaft section.

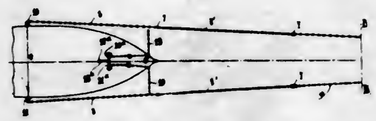
1,378,101. PHOTOGRAPHIC-PRINTING APPARATUS. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 20, 1918. Serial No. 254,926. 7 Claims. (Cl. 95—75.)



1. In a photographic printing apparatus, the combination with a guide for a sensitized strip and a printing negative arranged therein, of a movable presser for holding the strip and negative in printing contact, a marker adapted to act upon the strip and controlled by the movement of the presser, and an indicator with which the mark made on the strip is adapted to coöperate to indicate the feed of the strip.

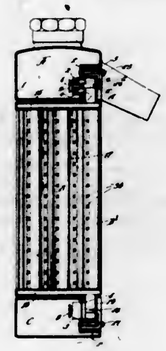
1,378,102. CABLE ARRANGEMENT FOR TOWING. LOUIS VICTOR WILLIAM FROGER, Lorient, France. Filed Dec. 8, 1919. Serial No. 343,361. 8 Claims. (Cl. 114—235.)

1. In a cable arrangement for towing, the combination, with a pair of releasing hooks adapted to be positioned on the tow at the ends of a transverse line normal to the longitudinal axis of the tow; of a tow line having its ends detachably coupled to said hooks; and balancing connec-



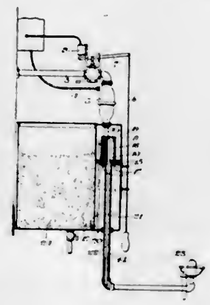
tions forward of said hooks between the tow and each bight of the tow line, the bend in the latter adapted to run in a grooved part on the tug or anchor.

1,378,103. RADIATOR. MATHIAS GAL, Cleveland, Ohio. Filed Apr. 24, 1919. Serial No. 292,311. 7 Claims. (Cl. 257—129.)



1. A radiator comprising headers provided with normally-closed valves, an intermediate tubular section attachable at its ends to said headers, and means carried by said intermediate section and adapted to automatically open said valves upon the insertion of said section.

1,378,104. OZONE-FUME-REMOVING APPARATUS. WILLIAM E. GEST, Milwaukee, Wis., assignor to Ozone Company of America, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 28, 1920. Serial No. 377,295. 4 Claims. (Cl. 183—3.)



1. In a device of the character described, an outlet structure for an ozonized water tank comprising a delivery pipe communicating with the tank, an inclosure forming an air chamber at the upper end of said pipe and provided with water sealed inlets to prevent the passage of free fumes from the tank to the delivery pipe, and means for equalizing the pressure in the air chamber.

1,378,105. VEGETABLE GLUE AND PROCESS OF MAKING SAME. WILLIAM M. GROSVENOR, New York, N. Y., assignor to Perkins Glue Company, a Corporation of Pennsylvania. Filed Dec. 8, 1917. Serial No. 206,144. 10 Claims. (Cl. 87——17.)

1. The process of making vegetable glue, which consists in dissolving a starchy carbohydrate in about 3 parts or less by weight of water and a substantially neutral solvent of starch cellulose, to produce a substantially neutral glue solution, the starchy carbohydrate being such that the resulting glue solution has substantially the properties of animal glue for gluing up high grade wood veneers.

2. The process of making vegetable glue, which consists in dissolving a starchy carbohydrate in the absence of caustic alkali and in about 3 parts or less by weight of water and a substantially neutral solvent of starch cellulose, the starchy carbohydrate being such that the resulting glue solution has substantially the properties of animal glue for gluing up wood veneers.

3. The process of making vegetable glue, which consists in dissolving a starchy carbohydrate in water by means of a substantially neutral solvent of cellulose to form a substantially neutral viscous glue solution, the starchy carbohydrate being such that the resulting glue solution has substantially the properties of animal glue for gluing up wood veneers.

4. The process of making vegetable glue, which consists in dissolving a starchy carbohydrate in about 3 parts or less by weight of water and a substantially neutral salt solvent of starch cellulose, to produce a substantially neutral glue solution, the starchy carbohydrate being such that the resulting glue solution has substantially the properties of animal glue for gluing up wood veneers.

5. The process of making vegetable glue, which consists in dissolving a starchy carbohydrate in water by means of a substantially neutral salt solvent of cellulose, to form a substantially neutral viscous glue solution, the starchy carbohydrate being such that the resulting glue solution has substantially the properties of animal glue for gluing up wood veneers.

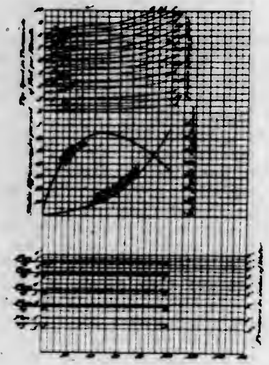
1,378,106. VEGETABLE GLUE AND PROCESS OF MAKING SAME. WILLIAM M. GROSVENOR, New York, N. Y., assignor to Perkins Glue Company, a Corporation of Pennsylvania. Filed Jan. 16, 1918. Serial No. 212,044. 9 Claims. (Cl. 87—17.)

7. The improved process of making vegetable glue, which consists in dissolving with an alkaline solvent of starch, a mixture of a starchy carbohydrate uncombined with sulfur and a water absorptive material in about 4 parts or more of water per part by weight of carbohydrate, the carbohydrate and proportions being such that the resulting glue has substantially the spreading and cohesive qualities of animal glue for gluing up wood veneers and is capable of adhering to wood with substantially the adhesiveness of animal glue for gluing up wood veneers.

1,378,107. FAN-CHART. HAROLD F. HAGEN, Boston, Mass., assignor to B. F. Sturtevant Company, Boston, Mass., a Corporation of Massachusetts. Filed June 16, 1916. Serial No. 104,064. 12 Claims. (Cl. 283—1.)

1. A chart for determining the performance of fans, blowers, and the like, comprising cross lines, the lines in one direction being marked to designate volumes and being spaced uniformly, and the lines in the other direction being marked to designate pressures and being spaced from the line of zero pressure at distances proportional to the square roots of the pressures designated, whereby a straight line may be drawn from any point corresponding to the volume delivered and pressure developed by a

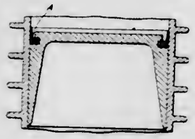
particular fan to the point of zero volume and pressure to indicate the different volumes delivered and corresponding pressures developed by the fan running at different speeds but with a constant efficiency.



1,378,108. BUTTON. LEWIS J. HART and FRANKLIN R. WHITE, Waterbury, Conn., assignors to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 16, 1920. Serial No. 358,881. 2 Claims. (Cl. 24—94.)

1. A button comprising a body portion including a head, a hub and an imperforate base formed of a hard, non-metallic material, said base provided with an indentation adapted to receive and guide the prong of a metallic fastener through the base for securement of the button to a supporting surface.

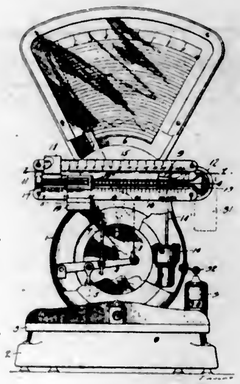
1,378,109. OBTURATOR-RING. JOHN S. HECHT and ALBERT T. DOWDELL, St. Albans, England. Filed May 17, 1916. Serial No. 98,073. 7 Claims. (Cl. 74—109.)



1. An obturator ring comprising a strip of metal having its grain extending diagonally of its length.

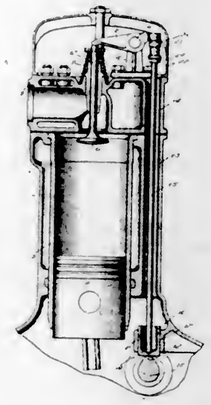
1,378,110. WEIGHING-SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 21, 1916. Serial No. 138,199. 19 Claims. (Cl. 265—31.)

1. In a weighing scale and in combination with the main lever thereof, a graduated beam mounted upon the lever, a poise slidable thereon, a computing member mounted upon said lever, and rotatable means mounted within



the poise, said beam being formed with means adapted to engage said rotatable means for rotating said computing member when the poise is moved on the beam.

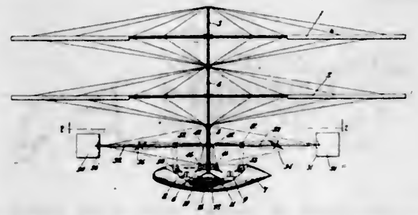
1,378,111. VALVE-ACTUATING MECHANISM. ROBERT O. HENDRICKSON, Racine, Wis., assignor to Wallis Tractor Company, Racine, Wis., a Corporation of Wisconsin. Filed Mar. 15, 1917. Serial No. 154,938. 3 Claims. (Cl. 123—87.)



1. In a device of the class described, a spring-pressed valve, a rocker arm for operating the valve there being a partially spherical socket formed in said arm, a push rod for operating said rocker arm, a sleeve threaded upon said push rod and having a partially spherical socket in its upper end and a ball seated in the sockets in said sleeve and rocker arm respectively.

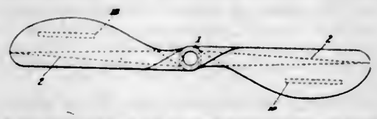
1,378,112. FLYING-MACHINE. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 14, 1919. Serial No. 304,190. 5 Claims. (Cl. 244—19.)

1. A helicopter comprising a propeller, means supporting the propeller, means for driving the propeller about an upright axis, means arranged to be acted upon by the draft from the propeller for tilting said propeller supporting means to cause lateral movement of the helicopter,



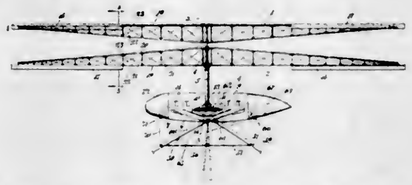
and means for maintaining said propeller supporting means tilted when the helicopter moves laterally.

1,378,113. PROPELLER. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 14, 1919. Serial No. 304,191. 16 Claims. (Cl. 170—159.)



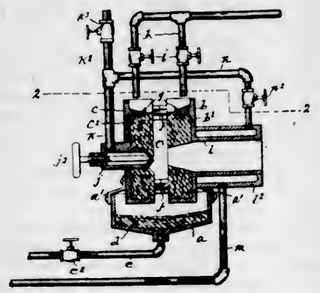
1. A propeller having a hollow self-sustaining blade, the center of support of which is forwardly of the center of pressure of the blade.

1,378,114. FLYING-MACHINE. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 14, 1919. Serial No. 304,192. 13 Claims. (Cl. 244—19.)



1. The combination of two propeller and means for supporting the same for rotation about a common axis, said propellers being spaced apart along said axis and comprising blades and members supporting said blades and arranged entirely within the space between the blades of the respective propellers.

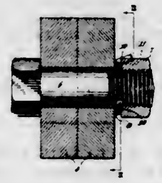
1,378,115. FUEL-OIL BURNER. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y., a Corporation of Delaware. Filed Mar. 5, 1920. Serial No. 363,547. 7 Claims. (Cl. 158—73.)



1. In a fuel oil burner, a drip-pan containing a porous refractory filler and provided with a discharge conduit

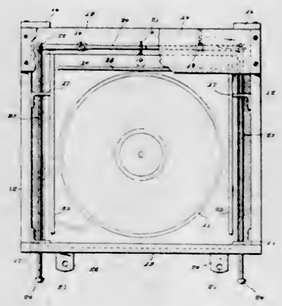
leading therefrom, a pair of parallel opposed vertical burner plates, spaced from each other so as to provide an air passageway therebetween supported over said drip-pan in such a manner as to provide a circumferential air inlet-opening to said drip-pan, said burner plates composed of refractory porous material, means for supplying fuel oil to said burner plates, said plates so adapted that said oil may gravitate therethrough and seep out along the face thereof, a nozzle adapted to project a vapor jet through one of said plates into the air passageway therebetween, a combustion chamber passing through the other of said burner plates disposed opposite the nozzle.

1,378,116. NUT-LOCK. GWYLLYM R. HOLMES and WALTER J. WISCH, Baltimore, Md., assignors to The Bull Dog Lock Washer Co., Baltimore, Md., a Corporation of Maryland. Filed May 8, 1920. Serial No. 379,795. 1 Claim. (Cl. 151—25.)



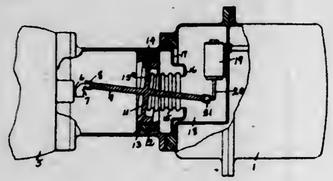
In combination with a member having a bolt extending therethrough with a nut threaded thereon, a washer loosely arranged upon the bolt between the member and the nut and provided with an inwardly projecting rigid spur, and a rigid tongue on the washer engageable by the nut to prevent turning of the latter relative to the washer, said tongue and said spur being formed and arranged to permit free turning of the nut onto the bolt, and said tongue being arranged to be engaged by the nut when the latter tends to turn off of the bolt for sliding the washer transversely of the bolt and causing digging of the spur into the threads of the bolt, whereby such turning of the nut off of the bolt is prevented.

1,378,117. PHONOGRAPH-CABINET. JOSEPH C. HOULEY and CHARLES E. SHAW, Chicago, Ill. Filed Sept. 21, 1920. Serial No. 411,794. 2 Claims. (Cl. 211—16.)



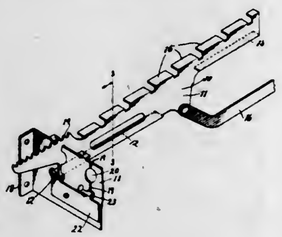
1. A filing device for talking machine record disks, comprising a frame having side walls and an open front, a series of vertically spaced and horizontally slidable disk-supporting shelves between the side walls and adapted to be projected from the open front of the frame, shelf-supporting flanges on the side walls, said flanges having edge notches in which the shelves seat at their side edge portions, levers connected to the shelves for projecting the same, and slidable actuators for the levers supported by the aforesaid flanges and projecting from the front of the frame.

1,378,118. POWER-TRANSMITTING JOINT. CHARLES H. JACOBSEN and CARL BREER, Detroit, Mich. Filed July 21, 1920. Serial No. 397,838. 5 Claims. (Cl. 74—14.)



4. In a power transmitting joint for gas compressors, the combination of a rotary pump; a motor; a driving connection between the motor and the pump comprising a wall between the motor and pump, a wabbling fulcrum mounted in the wall; a crank on the motor; a crank on the pump; a wabbling bar mounted on the fulcrum and extending from one crank to the other; and a bellows diaphragm having one end secured to the fulcrum and the other to the wall to seal the joint at the fulcrum.

1,378,119. RACK-BAR AND BEARING FOR CALCULATING-MACHINES AND THE LIKE. OLIVER D. JOHANTGEN, Chicago, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 4, 1918, Serial No. 210,301. Divided and this application filed July 1, 1919. Serial No. 307,941. 11 Claims. (Cl. 235—60.)



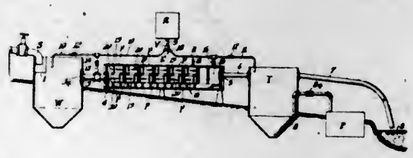
1. In an adding machine, in combination, a sliding rack bar having a web and a flange, a guide plate having a slot for receiving the said flange of the rack bar, and a bearing plate carried by the guide plate and having a portion projecting into said slot under the flange to serve as a bearing therefor.

6. A rack bar bearing for calculating machines and the like comprising, in combination, a member having a slot therein said slot being enlarged at each end, a reciprocating part acting in said slot with longitudinal edges in the enlargements of the slot, and means to guide said part in its reciprocation with its edges out of contact with said member.

8. A rack bar for calculating machines and the like comprising an elongated sheet metal plate having a right angled flange at the bottom thereof formed of the material of the plate and a set of stops at successively increasing heights above said flange formed by bending portions of the material of the plate at an angle thereto.

1,378,120. METHOD OF AND APPARATUS FOR TREATING LIQUID. CLARENCE P. LANDRETH, Philadelphia, Pa. Filed Dec. 20, 1916. Serial No. 138,087. 21 Claims. (Cl. 204—25.)

1. The method of treating liquid, which consists in passing current through the same in the presence of a normally attackable positive electrode, rendering said electrode passive, continuing passage of current through the liquid in the presence of said passive electrode, and introducing reagent into the liquid after the passage of current therethrough.



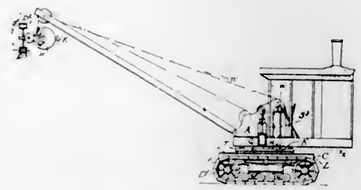
2. The method of treating liquid, which consists in passing current therethrough in the presence of a normally attackable positive electrode and in the presence of a reagent added thereto until passivity of said electrode is produced, and introducing a reagent into the liquid after passage of current therethrough.

3. The method of treating liquid, which consists in introducing a reagent thereinto, and electrolyzing the same in the presence of a positive metal electrode until said electrode becomes pasaive, then reducing or discontinuing the introduction of said reagent, and introducing said reagent into the liquid after passage of current therethrough.

4. The method of treating liquid, which consists in passing current therethrough in the presence of a positive metal electrode, and simultaneously introducing reagent into said liquid both during and after its electrical treatment to render said electrode passive and cause reaction between said reagent and contents of the liquid after passage of current through the liquid.

5. The method of treating liquid, which consists in passing electric current therethrough, and alternately introducing reagent into said liquid prior and subsequent to the electrical treatment.

1,378,121. MECHANISM FOR STEERING TRACTORS. FREDERICK W. LARKWORTHY, Cleveland, Ohio, assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio, a Corporation. Filed Mar. 24, 1920. Serial No. 368,331. 5 Claims. (Cl. 180—17.)



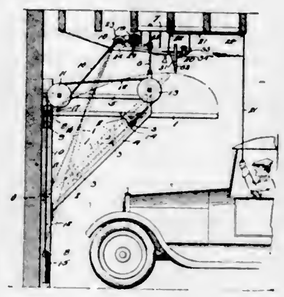
1. In a locomotive crane of the endless belt type, having truck wheels, oppositely related horizontal shafts for driving the same, and a differential gear operatively connected to said shafts and to the power mechanism of the crane, the combination, with the superstructure of the crane, of a rotary steering-shaft extending through the superstructure below the bedplate, a pinion fixedly attached to the lower end of said steering shaft, in mesh with the upper circumferential face of a transmission-gear, revolubly mounted on the bedplate around the axis of revolution of the superstructure; a gear-section axially mounted on said bed-plate in mesh with the lower circumferential face of the transmission gear; an arm on the axle of said gear-section; devices for braking said horizontal shafts, and a system of arms and levers, between said arm and said devices, whereby, according to and by the movement of said arm in one direction or the other, one, or the other, of said devices will be correspondingly actuated, substantially as shown and described.

1,378,122. SPARKING PLUG. EDMUND LEYMARIE, Paris, France. Filed Feb. 12, 1919. Serial No. 276,543. 1 Claim. (Cl. 123—169.)



A spark plug, including a metallic body portion having an axial opening therethrough and an undercut angular groove adjacent to the upper end of the opening, an insulating barrel located within said body portion having a face inclined toward and substantially parallel with said undercut groove and a metallic ring forced against said inclined face and into said groove to bind the insulating barrel in position within the body portion.

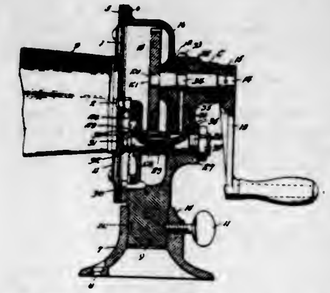
1,378,123. TRACKAGE FOR CEILING TYPE OF DOORS WITH DOOR-OPENERS. ELMER LOVEJOY, Laramie, Wyo. Filed Mar. 27, 1920. Serial No. 369,346. 8 Claims. (Cl. 268—1.)



1. In an automatic power operated door opener of the type described, the combination of spaced inclined tracks arranged adjacent the doorway, rollers adapted to ride on said track, said rollers being mounted at a point substantially equally distant from the top and bottom of the door, guide rollers carried by the lower edges of the door and adapted to travel in vertical guide channels, channeled members on either side of the door for guiding the said rollers, counterweights operatively attached to the door at a point equally distant from the top and bottom thereof to render its operation easy, and a cable for raising the door, said cable being attached to the lower portion of the door.

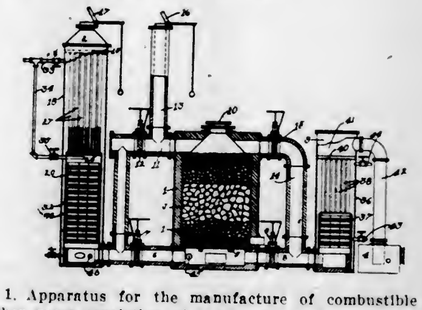
1,378,124. MECHANICAL HORN. DUNCAN A. MCCONNELL, Montclair, N. J., assignor to Klaxon Company, a Corporation of Delaware. Filed Jan. 30, 1919. Serial No. 273,953. 13 Claims. (Cl. 116—145.)

1. In a horn of the class described, rear and front castings and a diaphragm clamped between them, in combination with means for vibrating the diaphragm, said means including a sleeve with a rotor, and driving pinion thereon, a stationary stud shaft projecting endwise toward the diaphragm from the rear wall of the casing on the inwardly projecting portion of which said rotor and pinion are rotatably mounted, the rear portion of said stud shaft extending through the rear wall of the casing and having screw connection therewith, accessible from the exterior of the casing for endwise adjustment of the rotor to and from the diaphragm, a rotatable driving shaft extending through the rear wall of the casing with its axis parallel



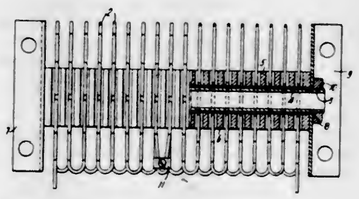
to said stud shaft, a large gear mounted on the inner end of said driving shaft and engaging said pinion, and a hand crank located outside the casing on said drive shaft.

1,378,125. GAS-GENERATING APPARATUS. FRANK D. MOSES, Trenton, N. J. Filed Aug. 8, 1919. Serial No. 316,240. 6 Claims. (Cl. 48—64.)



1. Apparatus for the manufacture of combustible or other gases consisting of a generator and a boiler-superheater, means for producing combustion in the generator, a conduit at the top of the generator to the bottom of the boiler-superheater, a valve in the said conduit, a second conduit from the bottom of the generator to the bottom of the boiler-superheater, a valve in said conduit, a discharge conduit for the generator at the top thereof and at the bottom thereof, a valve in each of the said last named discharge conduits, and a steam conduit leading from the boiler of the boiler-superheater and discharging through the bottom thereof, and thence selectively to the top or bottom of the generator through the first and second named conduits of the generator.

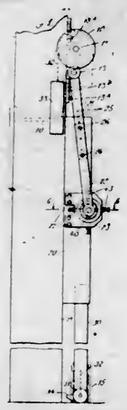
1,378,126. RESISTANCE DEVICE. HARRY C. NAGEL, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 14, 1915. Serial No. 28,042. 3 Claims. (Cl. 219—63.)



1. A two-part electrical resistance device, each part comprising a continuous length of resistance wire composed

of a plurality of integrally connected parallel, flat sections, the connecting portions of said wire being disposed substantially perpendicularly to the planes of said sections, said sections severally comprising a plurality of radial loops symmetrically disposed to form a central opening, said parts being electrically connected by a terminal device.

1,378,127. ADJUSTABLE-LINK DOOR. JOHN EDWARD OGDEN, Mountainville, N. Y. Filed May 6, 1920. Serial No. 379,221. 10 Claims. (Cl. 20—19.)



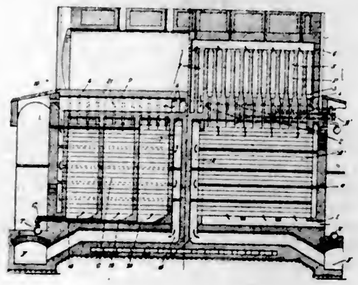
1. The combination with a door section, a counterbalance therefor, a hoisting element operatively connected between the lower edge of the door and the counterbalance, and means for guiding the lower edge of the door section in a dirtcion other than horizontal, of adjustable links pivoted to points above the door section and to the sides of the door section intermediate the uper and lower edges thereof, and means for adjusting the length of said links.

1,378,128. PROCESS OF MAKING VEGETABLE GLUE. JAMES G. B. PERKINS and JULIUS B. B. STRYKER, Lansdale, Pa., assignors to Perkins Glue Company, a Corporation of Pennsylvania. Filed Sept. 26, 1917. Serial No. 193,240. 12 Claims. (Cl. 87—17.)

7. The process of making vegetable glue which consists in dissolving a starchy carbohydrate with water and an alkaline compound, the carbohydrate being such that the resulting solution is a thick viscous alkaline mass capable of flowing through pipes two inches in diameter, and of being spread by glue applying machinery and of adhesively securing layers of wood together, and adding an ammonia salt thereto to substantially neutralize the glue without materially decreasing its strength or spreadability.

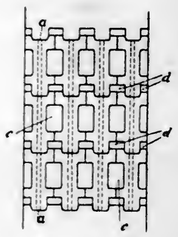
1,378,129. HORIZONTAL COKING-OVEN. OLIVIER PIETTE, Paris, France, assignor to Société Anonyme Des Fours A Coke Semet-Solvay & Piette, a Corporation of Belgium. Filed Jan. 28, 1918. Serial No. 214,160. 5 Claims. (Cl. 202—9.)

5. A horizontal coke oven comprising heating means, a plurality of apertured baffles located beneath said heating means and forming a series of superimposed chambers communicating with each other, groups of horizontal channeled member in said chambers constituting recuperating channels, said groups of channeled members being spaced apart and having an exterior contour whereby vertical undulating channels are formed in registry with the apertures in said baffles and communicating with said heating means, means whereby air on the one hand and producer gas on the other are conducted to and caused to pass through said undulating channels to said heating means and means whereby the products of combustion are conducted from said heating means to the first group of



recuperating channels, said products of combustion passing successively through successive groups of recuperating channels from one chamber to another to preheat the air and producer gas prior to their arrival at said heating means.

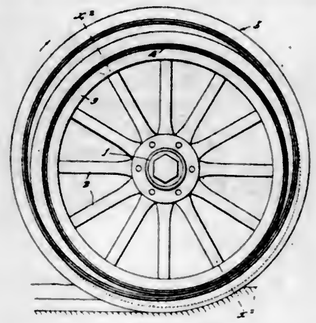
1,378,130. HEAT-RECUPERATOR FOR AIR OR GAS. OLIVIER PIETTE, Brussels, Belgium, assignor to The Société Franco-Belge De Fours A Coke, Paris, France. Filed Nov. 6, 1918. Serial No. 261,422. 3 Claims. (Cl. 72—15.5.)



1. A brick for furnace construction, having two of its opposite faces formed with laterally-projecting flanges extending longitudinally of the brick to form channels in said faces, one of the other two faces of the brick being a substantially plane surface with a depression therein the margins of which lie within the boundaries of said face, and the face opposite said last-named face having a projection extending a greater distance therefrom than the depth of said depression but its other dimensions substantially corresponding with those of said depression, and a duct extending completely through the brick between said depression and said projection.

1,378,131. LOOSE-TREAD TRACTION-WHEEL. JAMES V. PRIEST, Los Angeles, Calif. Filed Oct. 24, 1916. Serial No. 127,346. 4 Claims. (Cl. 305—7.)

2. A wheel having a flat rim; wedge shaped gear teeth on the periphery of said rim; a loose tread track rim in which the wheel runs, said track rim having recesses to receive the gear teeth and prevent slipping; and means between the flat rim and the track rim for maximizing friction between the wheel and the track rim and thereby



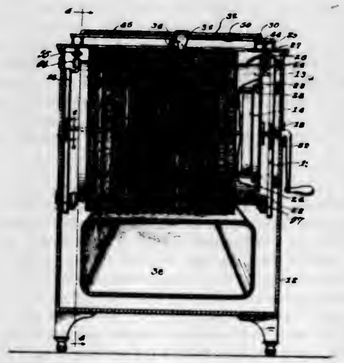
relieving the strain upon the gear teeth and also for minimizing wear and noise.

1,378,132. CAR-REPLACING APPARATUS. ARTHUR RACINE, Montreal, Quebec, Canada. Filed June 17, 1919. Serial No. 304,858. 1 Claim. (Cl. 104—265.)



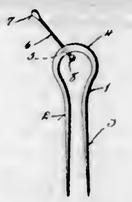
A car wheel replacing device, comprising a plate, the ends of which are disposed in a horizontal plane the said plate slanted upwardly from the horizontal ends formed in central portion, vertical flanges extending upwardly from the inner edge of the plate and connecting the slanting portions with the horizontal ends, a rib formed on the outer edge of the plate and connecting the slanting and horizontal portions, a single pedestal extending transversely of the central portion of the plate, with its lower edge flush with the lower side of the horizontal portions of the plate and a depending flange formed upon the outer edge of the plate with its lower edge faced above the lower side of the horizontal ends of the plate and the said pedestal.

1,378,133. TALKING-MACHINE. THOR RAJE, Los Angeles, Calif. Filed Aug. 17, 1916. Serial No. 115,402. 3 Claims. (Cl. 274—18.)



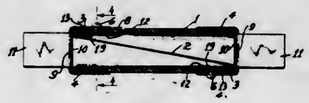
1. In a machine of the character referred to, in combination, a cabinet, means for supporting and revolving a phonographic element therein, a reproducer mounted to travel on said element, a sound amplifier of tapering form and curved from the upper side of said phonographic element around and under the same to the front of said cabinet, the upper portion of said sound amplifier being connected to the other portion thereof, with a swivel joint within said cabinet, said swivel portion partially encircling said phonographic element, a tubular connecting member from said reproducer and having telescopic connection with the small end of said amplifier, means for positively moving said reproducer longitudinally of said phonographic element and for turning the swivel portion of said amplifier therewith, and means for indicating different locations along said phonographic element, substantially as shown and described.

1,378,134. SLIDABLE RETAINING MEANS FOR HAIRPINS, COMBS, AND THE LIKE. LOUIS J. RHEIN and RANDOLPH A. REHRAUER, Two Rivers, Wis. Filed Mar. 30, 1918. Serial No. 225,831. 1 Claim. (Cl. 132—22.)



An article of the class described, comprising a head having two or more depending legs, a resilient bar slidable transversely through the head, said bar having at one end a ball adapted to override the coacting leg of the article and engage the outer edge thereof, and at the other end a tapered head adapted to wedge into the bearing of the bar, and both means functioning as holding means for the bar when same is in an operative position.

1,378,135. RENEWABLE FUSE. LEON W. ROSENTHAL, New York, N. Y., and GUSTAVE J. LANG, Weehawken, N. J., assignors to Arthur T. Murray, Allentown, Pa. Filed Dec. 24, 1918. Serial No. 268,134. 4 Claims. (Cl. 200—131.)



1. A renewable fuse consisting of an open-ended tube having recesses extending along the outer surface of the tube near the ends thereof, spring bearing plates located in the recesses and strained into substantial conformity with the outer surface of the tube, a fuse passing through the tube and folded over the plates to form fuse terminals, caps positioned over the open ends of the tube and the fuse terminals, and means securing the caps against endwise displacement on the tube.

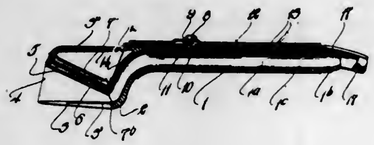
1,378,136. RENEWABLE FUSE. LEON W. ROSENTHAL, New York, N. Y., and GUSTAVE J. LANG, Weehawken, N. J., assignors to Arthur T. Murray, Allentown, Pa. Filed Dec. 24, 1918. Serial No. 268,136. 3 Claims. (Cl. 200—132.)



1. A renewable fuse consisting of a tube having bayonet slots at its ends, detachable end plates having depending

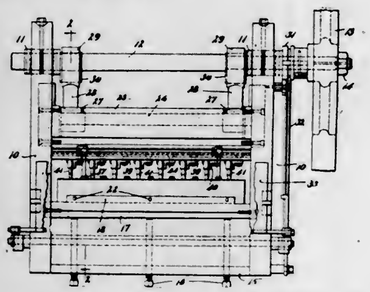
legs engaging the bayonet slots and adapted to be fastened therein and detached therefrom by longitudinal and circumferential movements relatively to the tube, a fuse extending through the tube and having end portions folded over the end plates to form fuse terminals, caps positioned over the outer ends of the tube, and end screws passing through the caps into threaded engagement with the end plates to prevent longitudinal movement of the caps on the tube while clamping the fuse terminals between the end plates and caps.

1,378,137. HAIR-SINGEING MACHINE. WARREN A. ROSS, Haverhill, Mass. Filed May 25, 1920. Serial No. 384,233. 10 Claims. (Cl. 219—29.)



1. The combination with a tubular handle and hollow open front head having tines in its bottom forming a comb, of a singeing device in said head for the purpose described, and means for conveying charred hairs through said head and handle.

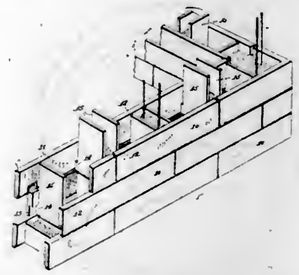
1,378,138. SOLE-BLANK-CUTTING MACHINE WITH ADJUSTABLE KNIVES. CHARLES ADRIAN SAWYER, Jr., Newton, Mass. Filed Apr. 28, 1920. Serial No. 377,321. 3 Claims. (Cl. 164—31.)



1. In a dinker press for shoe sole blanks, the combination of a frame, a reciprocating cutter head therein, there being longitudinally arranged parallel slots in said cutter head at each side thereof, a plurality of cutters defining the contour of the sides of a plurality of shoe sole blanks, and means, including said parallel slots for adjustably mounting said plurality of cutters in operative position on the head to define the contour of the sides of shoe sole blanks of different widths.

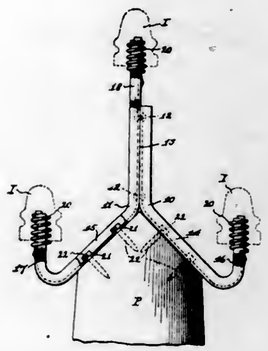
1,378,139. WALL CONSTRUCTION. FRANK MCMURRAY SAWYER, Los Angeles, Calif. Filed Mar. 24, 1919. Serial No. 284,604. Renewed Oct. 12, 1920. Serial No. 416,512. 5 Claims. (Cl. 72—29.)

5. In a wall construction, inner and outer walls formed of slabs, transverse key-slabs for connecting said walls together, the wall-slabs being formed with key receiving recesses on their inner sides only and provided with an undercut wall on one side of said recesses, and said transverse key-slabs being formed with key projections of a thickness less than the length of said recesses and which are adapted to engage therein, and a concrete filling between each pair of the transverse key-slabs, said filling also entering the portions of the recesses not filled by



the key projections, whereby the recesses serve as a keying means to receive at the same time both the key-projections and the filling between the key-slabs.

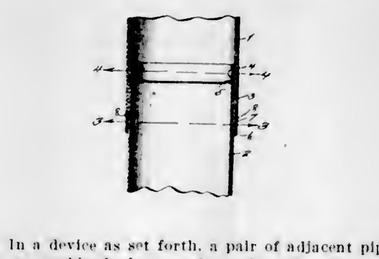
1,378,140. INSULATOR-BRACKET. WARREN B. SIMPSON, Huntingdon, Pa. Filed Nov. 25, 1919. Serial No. 340,452. 3 Claims. (Cl. 173—321.)



1. An insulator bracket to be secured to the top of a pole comprising two sections of channel iron of unequal length bent at an angle and connected together at a portion of the back of their web lengths to form a central upright standard provided with means on the outer end of the longer section for engaging an insulator, the disconnected portions of the two sections diverging from each other and so constructed, arranged and adapted to have the back of their web lengths to be seated and secured to the top of a pole and provided at each of their oppositely disposed ends with means for engaging an insulator.

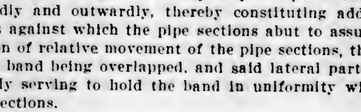
1,378,141. VALVE. HARVEY SLATER, Chicago, Ill., assignor to Charles F. Elmes Engineering Works, Chicago, Ill., a Corporation of Illinois. Filed Mar. 15, 1920. Serial No. 365,703. 8 Claims. (Cl. 138—16.)

1. In a device of the character described, the combination of two valve mechanisms each including an inlet, an exhaust and a machine-supply port, means in each of said mechanisms whereby its machine-supply port is put in alternate communication first with its inlet and then with its exhaust, means for operating both valve mechanisms in synchronism whereby when communication between the machine-supply port and inlet of one is opened communication between the machine-supply port and exhaust of the other is opened, and vice versa, and means to establish communication between the inlet of one valve mechanism and the machine-supply port of the other whereby



when the pressure in the latter port reaches a predetermined amount communication will automatically open therebetween.

1,378,142. COLLAR. ANGELO L. SORESI, New York, N. Y. Filed Aug. 15, 1919. Serial No. 317,744. 2 Claims. (Cl. 2—67.)

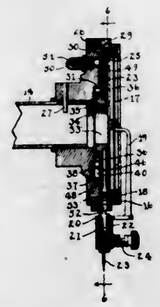


1. A collar having its middle and free end portions provided with openings for the reception of means for fastening the collar to the neck band of a shirt, the lower edge of said collar extending uninterruptedly from the said middle and free end portions to oppositely disposed and relatively narrow roached portions, the highest points in which aline with the said openings of the collar, said roached portions being arranged so as to avoid transmission of pressure from said edge to the blood vessels of the wearer extending laterally from the neck and posterior to the uppermost ribs.

1,378,143. STOVEPIPE-CLAMP. BASCUM LENTON STRANGE, Hernando, Fla. Filed Apr. 26, 1920. Serial No. 376,716. 4 Claims. (Cl. 285—185.)

1. In a device as set forth, a pair of adjacent pipe sections, a combined clamp and coupling therefor comprising a band telescoping respectively within one section and over the other section, the circular marginal edges of the band having inwardly and downwardly, and outwardly and upwardly turned flanges, the marginal edges of which being flared and adapted to be engaged by the respective marginal edges of the pipe sections, thereby preventing relative movement of the pipe sections, the ends of said flanges terminating in laterally disposed parts extending inwardly and outwardly, thereby constituting additional means against which the pipe sections abut to assure prevention of relative movement of the pipe sections, the ends of the band being overlapped, and said lateral parts additionally serving to hold the band in uniformity with the pipe sections.

1,378,144. PHONOGRAPHIC REPRODUCER. HENRY H. STROMBERG, Chicago, Ill. Filed Mar. 29, 1920. Serial No. 369,476. 14 Claims. (Cl. 274—45.)

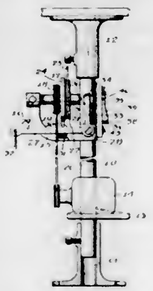


3. In a phonographic reproducer comprising a casing, the combination with a needle holder of a disk in said casing, said disk having needle-receiving bores extending inwardly from the periphery thereof, and means for rotating said disk.

1,378,145. ELECTROLYTIC DEPOSITION OF COPPER FROM ACID SOLUTIONS. FRANZ EDWARD STUDT, London, England. Filed Aug. 14, 1917. Serial No. 186,192. 4 Claims. (Cl. 204—15.)

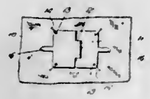
1. In the electrolysis of acid copper-sulfate solutions, the cyclic operation of preventing anodic polarization in a copper-depositing cell by introducing an amount of sulfur dioxid into the solution at the anode, capable of forming sulfuric acid in the solution in excess of that required for leaching the ores; utilizing a portion of the so-formed sulfuric acid for leaching copper ore material conveying the solution to said cell, and decomposing another portion of said sulfuric acid by heating the same with a metalloid reducing agent to produce sulfur dioxid and conveying the same to the said cell for use in the first mentioned step of the process, substantially as hereinabove described.

1,378,146. ELECTRICALLY-CONTROLLED TRANSMISSION. MAX TAIGMAN, New York, N. Y. Filed May 17, 1918. Serial No. 235,221. 3 Claims. (Cl. 172—179.)



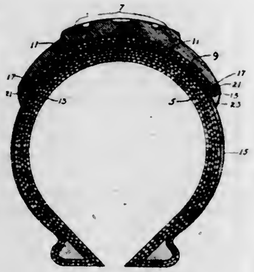
2. An attachment for a motor driven clutch comprising a bell crank lever pivoted at its angle with one arm extending horizontally and constituting an actuating arm and the other arm extending vertically and constituting a clutch controlling member, a clutch on one side of said member, a switch on the other side, a spring for moving the switch into circuit closing position, and a plunger controlled by the clutch controlling member for holding said switch in circuit breaking position and against the action of said spring.

1,378,147. TOUPEE AND WIG RETAINER. JOHN CHRISTOPHER TAPSCOTT, El Paso, Tex. Filed Aug. 25, 1920. Serial No. 405,896. 4 Claims. (Cl. 132—53.)



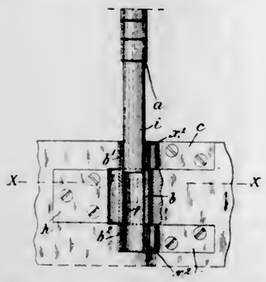
1. The combination with a toupee or wig, of attaching means including a pair of attaching plates hingedly connected along their inner edges and flexibly attached to the toupee or wig at the opposite ends of their outer edges, spurs projecting from the outer edges of the plates intermediate their ends and each projecting in the plane of its respective plate, and an attaching strip slitted at spaced points to receive the spurs therethrough, having a smooth face turned toward the adjacent surface of the toupee or wig and an adhesive surface presented outwardly away from the toupee or wig as described.

1,378,148. TREAD FOR TIRES. GEORGE W. TAYLOR, Everett, Mass. Filed July 13, 1920. Serial No. 395,917. 3 Claims. (Cl. 152—17.)



3. A tread for tires comprising an annular body of rubber construction having open passageways in the margins thereof, constrictable binders loosely received in the passageways and means for supporting the walls of the passageways and providing resistant bearings for the binders.

1,378,149. HINGE FOR VEHICLE-BODIES. HENRI TEISSEIRE, Paris, France. Filed Oct. 23, 1917. Serial No. 198,167. 5 Claims. (Cl. 16—106.)



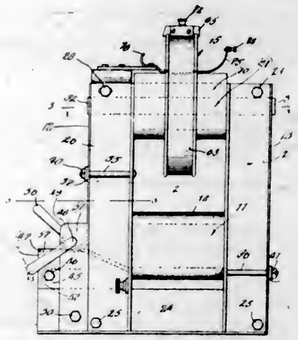
1. A hinge for the door of a vehicle body having a removable top, comprising hinge eyes and lateral attaching plates, the hinge eyes formed as tubular sleeves, the inner one forming a coaxial socket adapted to receive the pintle of a hinge for a window of such detachable top.

1,378,150. BUTTON. ERNEST B. THIELKE, Pittsburgh, Pa. Filed Sept. 28, 1920. Serial No. 413,263. 5 Claims. (Cl. 24—112.)



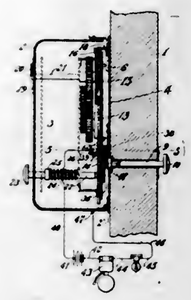
4. A button comprising a body having an orifice therethrough, and a wire of resilient metal having a loop lying in said orifice, a portion extending toward the center of said orifice and downwardly of the button, and an attaching loop disposed beneath the under surface of the body of the button.

1,378,151. ELECTRICAL TRANSFORMER. CHESTER H. THORDARSON, Chicago, Ill. Filed Nov. 6, 1916. Serial No. 129,779. 18 Claims. (Cl. 171—242.)



1. In a transformer, a magnetic circuit provided with an air gap formed by a supporting surface and a tapered surface, a magnetic element movable along said supporting surface to vary the width of the gap, and having a face that is parallel to the tapered surface of the gap, and locking means to lock said element in fixed position in the gap.

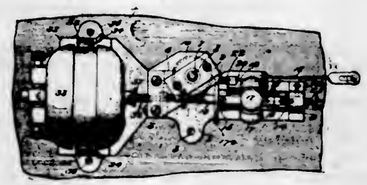
1,378,152. WATCHMAN'S DOUBLE-RECORDING AND SIGNAL DEVICE. WALTER J. TIDD, Springfield, Mass., assignor to Tidd Recording Clock Company, Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 18, 1918, Serial No. 212,460. Renewed Oct. 12, 1920. Serial No. 416,516. 12 Claims. (Cl. 234—40.)



3. A dial for a watchman's time recording mechanism comprising two graduated circles, said concentric circles being designed to be perforated only by independent devices that are located on opposite sides of a fixed support, one of the perforating devices passing through the

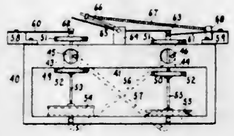
movement to the outer side of the casing and the other perforating device extending through the fixed support, the hour spaces of the graduated portions being divided by lines that are located on the outer and inner points of the circles and extending toward each other, as shown, and the perforating devices being so located as to engage the circles at the inner ends of the division lines, as described.

1,378,153. MOTOR. GEORGE C. TROTTER, Chicago, Ill., assignor to Plymouth Phonograph Parts Co., Plymouth, Wis., a Corporation of Wisconsin. Filed Oct. 20, 1919. Serial No. 332,030. Renewed Mar. 2, 1921. Serial No. 449,240. 8 Claims. (Cl. 64—96.)



3. In a motor, the combination with a base-plate, opposite posts projecting therefrom and provided with alining bearing-openings, of a bored plug seated in the outer post, a conical bearing formed in the companion post, a shaft reduced at its outer end to enter the bore of the plug and near its opposite end having a conical bearing-collar fitting the conical bearing of the companion post, a motor, the shaft of which approximately alines with the first mentioned shaft, and a tubular spring-wire coupling engaging the ends of the two shafts, whereby, when said motor-shaft is rotated, the first mentioned shaft is drawn toward the motor by the twisting of said coupling and caused to snugly fit and center itself in its said conical bearing.

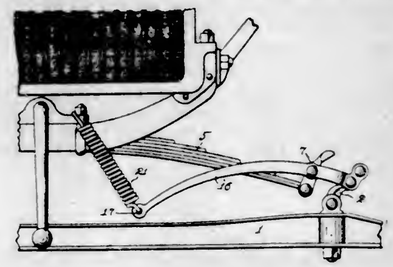
1,378,154. VALVE-TIMING DEVICE. BURT R. VAN VALKENBURG, Oakland, Calif., assignor to American Photo Player Company, Berkeley, Calif., a Corporation of California. Filed Sept. 19, 1918. Serial No. 254,829. 4 Claims. (Cl. 230—2.)



1. A valve timing device including a chamber provided with a pair of ports, leading from the chamber to the atmosphere, valves controlling both ends of said ports, said chamber being also provided with ports leading from the aforesaid ports, means for normally holding said valves in position closing the inner end of the aforesaid ports, a lever for engaging said valves and causing them to open the inner end and close the outer end of the aforesaid ports, and means for operating said lever.

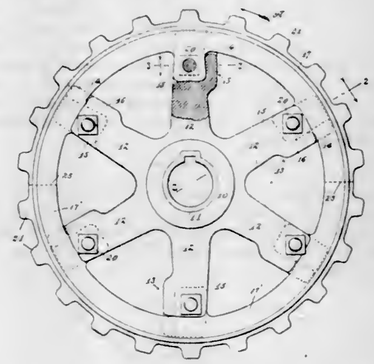
1,378,155. SPRING-SUSPENSION LEVER. GEORGE F. VOIGHT, San Francisco, Calif., assignor to Walter S. Burgess, Oak Park, Ill. Filed Nov. 4, 1918. Serial No. 261,099. 5 Claims. (Cl. 267—19.)

1. The combination with a vehicle having a leaf spring supporting the body thereof, of a pair of spaced apart levers to embrace said spring and pivotally supported at their outer ends, means supporting their inner ends upon the spring, a shackle pivotally attached to the levers intermediate their ends and having upper and lower portions projecting respectively above and below the same, a pivotal connection between the outer end of said spring and said



lower portion, said upper portion having means for engaging the levers to limit the movement of the shackle.

1,378,156. SHEAVE, SPROCKET, OR GEAR CONSTRUCTION. JAMES RALPH WATTS, New Castle, Del., assignor to American Manganese Steel Company, Augusta, Me., a Corporation of Maine. Filed Oct. 29, 1920. Serial No. 420,385. 8 Claims. (Cl. 74—28.)



1. A wheel of the character described comprising a hub and spokes, said spokes each provided at their outer extremities with spaced side walls, and a rear abutment wall, a detachable rim with portions thereof adapted to extend between said side walls and contact with said abutment walls of the spoke extremities, and means for locking said rim to said spokes.

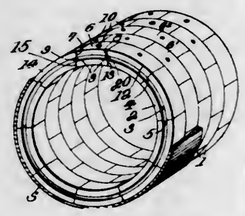
1,378,157. TOOTHBRUSH. WILLIAM LLOYD WEBSTER, New York, N. Y. Filed Oct. 31, 1919. Serial No. 334,794. 2 Claims. (Cl. 15—39.)



2. In a tooth-brush, the combination with a handle, a tapered socket carried by the handle near one end thereof,

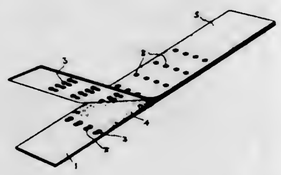
of means within the socket for the securement of a doubled-over piece of absorbent cotton roll therein, said means comprising screw-threads adapted to directly engage the cotton roll whereby the free ends of the cotton roll may be presented in operative position.

1,378,158. CONCRETE TUNNEL STRUCTURE. FREDERICK J. WEST, MARK JACKSON, and HAROLD T. LEADER, Detroit, Mich., assignors of one-fourth to Aldrich Baxter, Detroit, Mich. Filed Dec. 29, 1920. Serial No. 433,890. 6 Claims. (Cl. 61—45.)



1. A tunnel or like structure comprising annular sections, each annular section consisting of a series of curved blocks, means integral with said blocks for holding said blocks against radial displacement in the annular sections and said annular sections in alinement, two of said blocks having spaced parallel ends adapted to receive therebetween a key block, and means integral with said key block for securing said key block against radial displacement when inserted in place.

1,378,159. MEANS FOR GREASING SPRINGS. ROBERT WHITE, Orillia, Ontario, Canada, assignor of one-half to Melville B. Tudhope, Orillia, Ontario, Canada. Filed Apr. 20, 1920. Serial No. 375,220. 3 Claims. (Cl. 267—50.)



3. A means for greasing springs, comprising, a pair of paper strips, each being perforated with transverse rows of holes, a layer of grease placed between said strips and adapted to be extruded through the holes, said strips being placed between the leaves of the spring.

1,378,160. SPANNER. RICHARD CATON WOODVILLE, London, England, assignor to Arthur Ryner, London, England. Filed Nov. 23, 1920. Serial No. 426,078. 1 Claim. (Cl. 81—121.)



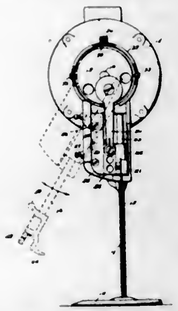
A spanner consisting of a head having an hexagonal opening formed therein, two opposite sides of the hexagon being elongated and one of said elongated sides being cut away at a portion intermediate the ends thereof to form a gate for permitting retrograde movements of the spanner.

1,378,161. RACK. MARTHA A. YATES and ODAVILLE YATES, Portland, Oreg. Filed Aug. 20, 1919. Serial No. 318,764. 1 Claim. (Cl. 211—17.)



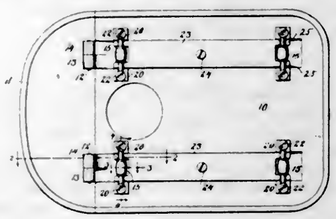
As a new article of manufacture, a rack comprising a transverse bar, a plurality of spaced leaves formed on said bar and extended vertically with their side edges rolled inwardly toward one another and their flared upper ends turned back in a horizontal plane and provided with notches in their opposed edges, the notches being adapted to accommodate handles of toothbrushes, the upstanding portions of the leaves forming tubes to receive towels to be suspended in spaced relation with respect to the stationary support.

1,378,162. CLOTH-CUTTING MACHINE. MARTIN ZAWISTOWSKI, Brookiyn, N. Y. Filed Aug. 7, 1919. Serial No. 315,832. 18 Claims. (Cl. 164—75.)



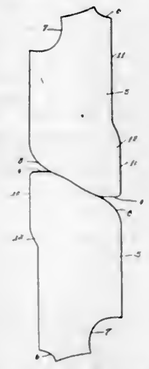
1. A cloth cutting machine, having a reciprocatory knife, a rotary driver, operative connections therebetween, a casing including a circular portion covering said driver and a depending portion rigid therewith covering said driver and said connections, and means for mounting said casing to permit rotation thereof about the center of said circular portion and the lateral swinging of said depending portion away from said knife.

1,378,163. BASE FOR CLOTH-CUTTING MACHINES. MARTIN ZAWISTOWSKI, Brooklyn, N. Y. Filed Apr. 19, 1920. Serial No. 374,805. 9 Claims. (Cl. 164—73.)



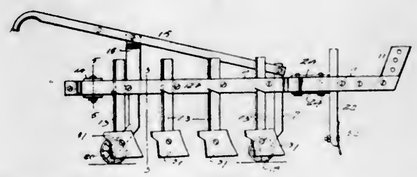
1. A base for reciprocating knife cloth cutting machines having a pair of depending lugs rigid therewith and provided with vertical slots, stops at the lower ends of said slots, a roller having an axle vertically movable in said slots and a spring engaging with said base and having portions engaging with said axle between the ends of said roller and said lugs for resiliently pressing said axle downwardly away from the body of said base and toward said stops.

1,378,164. METHOD OF CUTTING SHIRTS. GEORGE ANTHONY AIKEN, Clifton, N. J. Filed Apr. 13, 1920. Serial No. 373,679. 1 Claim. (Cl. 33—12.)



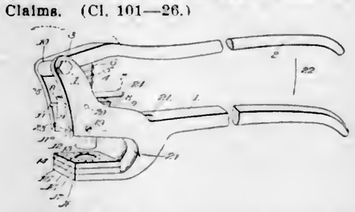
A method of cutting shirts consisting in forming a pattern of a plurality of sections having curved ends, positioning the curved ends of the pattern together and placing them on the material under operation, and finally cutting the cloth by the pattern.

1,378,165. CULTIVATOR. ERVAN V. ALLEN, Bogalusa, La. Filed Aug. 9, 1918. Serial No. 249,083. 1 Claim. (Cl. 97—10.)



In a cultivator, a beam composed of spaced side bars, said side bars being provided at their edges with incisions and the material of the side bars adjacent the incisions being inwardly disposed to form tongues which lie between the side bars, standards lying between the side bars and between the tongues carried by the side bars and soil engaging elements carried by the standards.

1,378,166. DEVICE FOR MARKING ANIMALS AND THE LIKE. TOMÁS FERRADÁS AMOEDO, Buenos Aires, Argentina. Filed Sept. 3, 1919. Serial No. 321,480. 9 Claims. (Cl. 101—26.)



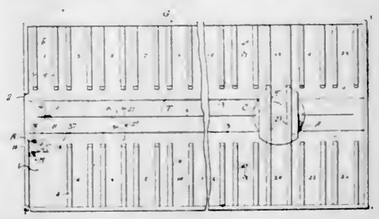
1. A device of the class described including a bar provided with a fork and having a supporting arm extending beneath the fork, a punch, means mounted in the fork for guiding the punch, a bar pivoted in the fork and arranged to actuate the punch, a cutter carried by the punch and a coöperating cutter mounted on the supporting arm.

1,378,167. BEATER-BAR. TERRENCE J. CLARK, Holyoke, Mass. Filed Jan. 9, 1920. Serial No. 350,461. 2 Claims. (Cl. 92—22.)



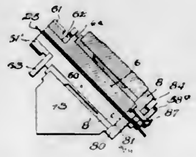
1. A beater bar having a steel center and a coat of iron welded to each side thereof, one edge portion of the steel center being deflected toward the side of the bar to provide a steel cutting edge.

1,378,168. MEANS FOR STORING VEHICLES. PERINO B. COLE, Cambridge, Nebr. Filed May 17, 1920. Serial No. 382,098. 14 Claims. (Cl. 104—44.)



1. In combination, a carrier, means for moving said carrier, a turn-table mounted upon the carrier, and means positioned at a point along the path of travel of the carrier and coacting with the table to impart turning movement to the table.

1,378,169. BINDER TYING AND CUTTING DEVICE. CHARLES E. EVANS, Seattle, Wash. Original application filed Jan. 11, 1918, Serial No. 211,448. Divided and this application filed Aug. 21, 1919. Serial No. 319,008. 4 Claims. (Cl. 140—115.)

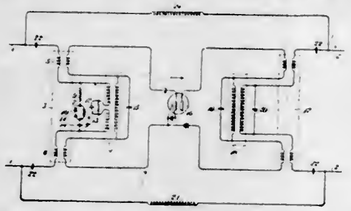


2. A twisting and binder cutter mechanism including in combination, a bearing, a rotary device mounted in said bearing formed with a longitudinal radial slot for the binder, the inner portion of which is slightly eccentric to the axis of said device and a combined binder cutting and gripping wheel mounted at one end of said device for rotation about an axis eccentric to the axis of the device, and coöperating with the device to grip and hold one end of the binder.

1,378,170. REPEATER-CIRCUITS. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 19, 1918. Serial No. 267,527. 8 Claims. (Cl. 179—170.)

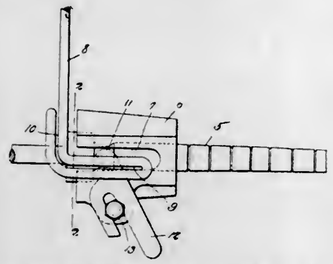
1. In a signaling system the combination of a main line for simultaneously transmitting telephone and telegraph

currents, an amplifier adapted for simultaneously amplifying both currents, and means for equalizing the attenua-



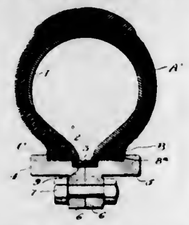
tion of the various frequencies comprised within the telephone range and within the telegraph range.

1,378,171. BUNCH-BUILDER FOR WINDING-MACHINES. EDWARD STANLEY GARY, JR., Baltimore, Md. Filed Oct. 18, 1920. Serial No. 417,689. 3 Claims. (Cl. 242—31.)



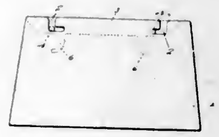
1. In a winding machine, the combination with a bobbin, and the thread guide of a traverse mechanism, said guide having a thread-engaging portion and a slot leading thereto, said slot extending parallel to the direction of the strokes of the thread guide; of a restraining device engageable by the thread in its passage from the thread guide to the bobbin, said device being positioned to hold the thread in the aforesaid slot to permit a building up of a bunch on the bobbin, said bunch by its increasing diameter operating to automatically disengage the thread from the restraining device and permit passage of the thread to the thread-engaging portion of the thread guide.

1,378,172. APPARATUS FOR CURING TIRE-CASINGS. FREDERICK J. GOSTLIN, Akron, Ohio, assignor, by direct and mesne assignments, to The Star Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 2, 1919. Serial No. 286,920. 6 Claims. (Cl. 18—45.)



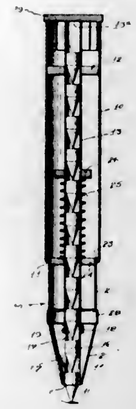
1. Apparatus for curing tire casings comprising a base ring split on a median plane to form a pair of complementary sections, the peripheral portion of said sections adjacent their meeting faces being cut away to form a central annular groove, means for confining the bead portions of a tire casing on said base ring, and a closed air bag lying within the casing, and having an inner toe portion snugly fitting in said groove and held in position thereby, whereby said bead portions of the casing are properly and symmetrically spaced.

1,378,173. CHANGE-RECEPTACLE. WILLIAM A. HEAP, Topeka, Kans., assignor to Charles M. Crews, Topeka, Kans. Filed Feb. 24, 1920. Serial No. 360,752. 1 Claim. (Cl. 133—14.)



A device of the class described comprising a channel-shaped holder having bayonet-shaped slots in its upper edges, a tray having lugs thereon engaging said slots, said lugs being spaced apart so that while one lug engages the vertical part of the slot the other lug is engaging the horizontal portion.

1,378,174. PENCIL. FERDINAND KAISER, St. Paul, Minn. Filed Jan. 28, 1920. Serial No. 354,727. 5 Claims. (Cl. 120—14.)

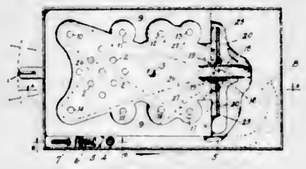


3. A pencil comprising a barrel, a tubular magazine fixed axially therein and adapted to freely receive pointed leads, said magazine having a slot near the discharge end thereof and being split longitudinally and contracted slightly at said end to form a yielding holder for the leads, a hollow cone-shaped tip slidable at its large end within the barrel and at its small end upon said magazine, a spring for yieldingly holding the tip in extended position, an inwardly inclined yielding finger cut from the wall of the tip and normally projecting through the slot in said magazine to hold a lead within the holder, against backward movement, and being further adapted, upon the reciprocation of said tip, to engage the adjacent lead, eject the first lead from the holder and insert the second lead therein, and a guide on the magazine to receive the finger, when the tip is retracted, said slot and guide serving to maintain the tip in fixed angular relation with respect to the barrel.

1,378,175. GAME-BOARD. JOSÉ KECKEIS, Portland, Oreg. Filed Apr. 7, 1920. Serial No. 371,832. 3 Claims. (Cl. 46—61.)

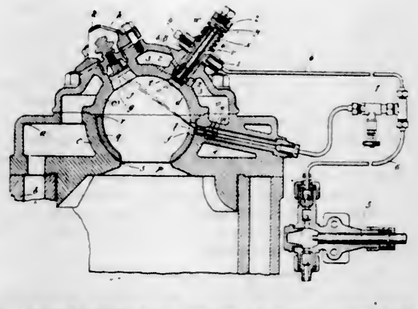
1. In a game board, the combination of a playing field, a wall provided with a plurality of curved recesses surrounding the field, propelling and guiding means for a ball

located at one end of the field, the recesses being so located with respect to each other and to said field that a



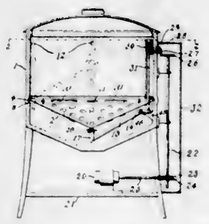
ball directed by the guiding and propelling means toward one recess may be deflected by the wall thereof to a skittle located in a recess on the opposite side of the field.

1,378,176. MEANS FOR SUPPLYING LIQUID FUEL TO THE CYLINDERS OF INTERNAL-COMBUSTION ENGINES. HENRY KENT-NORRIS, Newbury, England. Filed Oct. 11, 1920. Serial No. 416,219. 15 Claims. (Cl. 123—32.)



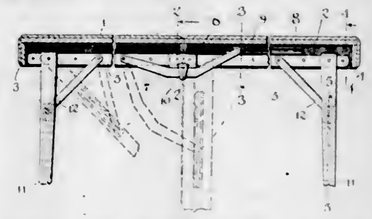
1. Internal combustion engine vaporizer comprising in combination an auxiliary injector, an igniter disposed in said vaporizer in the path of the jet of said auxiliary injector, a main injector disposed so as to direct its jet on to a hot part of the interior of said vaporizer, and controlling means operative upon said injectors whereby only one of them can be in effective operation at one time.

1,378,177. WASHING-MACHINE. ROBERT LELAND KINCAID, Syracuse, N. Y. Filed Dec. 6, 1919. Serial No. 342,899. 6 Claims. (Cl. 68—37.)



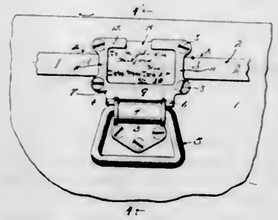
1. A washing machine comprising a receptacle, a vibratory flexible and perforate diaphragm mounted in the receptacle for supporting the clothes, means for holding the rim of the diaphragm against movement relatively to the receptacle, the middle portion of the diaphragm being movable above and below the horizontal plane of its rim, and actuating means connected to the middle of the diaphragm, substantially as and for the purpose described.

1,378,178. FOLDING TABLE. GEORGE J. KORN, Kirksville, Mo. Filed Aug. 10, 1920. Serial No. 402,549. 3 Claims. (Cl. 45—116.)



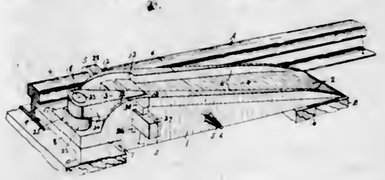
1. A table of the character specified, comprising top sections each consisting of a body and an angular marginal flange, a hinged connection between the sections for permitting them to fold with the bodies in alinement or upon each other with the flanges abutting, legs pivoted to the sections at the outer edges thereof, a brace for each leg pivoted to the top section and slidably connected with the leg, and a brace arm for holding the sections with the bodies in alinement, said arm being pivoted to one section and having a sliding connection with the other, and a latch plate engaging beneath the brace to hold it in bracing position and connected to the sections.

1,378,179. IDENTIFICATION-CARD HOLDER. WILLIAM F. LUICK, Milwaukee, Wis. Filed July 13, 1920. Serial No. 395,824. 1 Claim. (Cl. 40—10.)



In combination with a cylindrical container having hoops thereon, a shipping card holder for attachment to said container comprising a skeleton frame, said frame being transversely curved and attached to said receptacle to extend over a hoop on the cylindrical wall thereof, the under side of said frame being offset to provide a shallow card pocket having a throat extending therefrom, said offset portion following the curved contour of the frame whereby the card inserted therein is transversely bowed and held by the hoop to cause the same to be frictionally held against accidental displacement or removal.

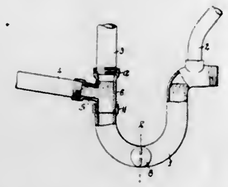
1,378,180. CAR-REPLACER. WILLIAM H. MCGINLEY, Pleasant Beach, N. Y. Filed Dec. 11, 1920. Serial No. 429,988. 12 Claims. (Cl. 104—269.)



1. In a car replacer in combination with a rail, a base section supported along one side of the rail and having a longitudinally inclined upper face, a leader plate resting

on said inclined face and provided with raised ribs along its opposite edges in spaced relation and converging toward one end, means for clamping the base to the rail and a switch point pivoted to the base and movable into and out of registration with each of said ribs.

1,378,181. SANITARY TUB AND SINK TRAP. HENRY J. MCGUCKIN, New York, N. Y. Filed July 11, 1917. Serial No. 179,788. 2 Claims. (Cl. 182—12.)



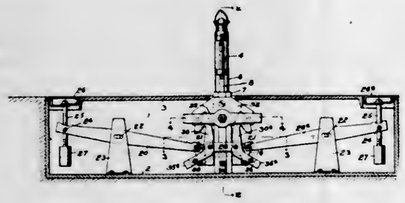
1. In a trap of the character described, a substantially U-shaped body provided with a discharge opening in one leg and a threaded end for receiving a T fitting on the opposite leg, said T fitting having the entrance of the T below the water line of said body whereby two independent drain pipes may be connected to said T and the passage of gas from one pipe to the other prevented.

1,378,182. SPARK-PLUG CLEANER. GEORGE MELLOR, Philadelphia, Pa. Filed Mar. 20, 1918. Serial No. 223,608. 1 Claim (Cl. 83—64.)



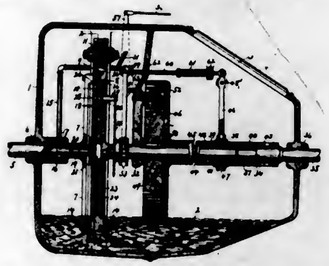
A spark plug cleaner comprising a longitudinal extended body with end cleaners thereon and having an intermediate flattened portion and scraping surfaces on said body portion consisting of a quantity of fine wire tightly wound around said flattened portion with the convolutions of the wire in contact with each other and with the ends of the wire secured to the body whereby said scraping surfaces will be rigid and immovable relative to said body and held against any longitudinal or transverse movement on the flattened portion thereof.

1,378,183. AUTOMATIC MECHANISM FOR OPERATING GATES, DOORS, &c. GOTTLIEB MERZ, McKeesport, Pa. Filed Aug. 8, 1919. Serial No. 316,080. 5 Claims. (Cl. 39—18.)



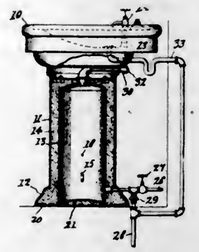
1. In combination with a swinging gate or the like, of a pair of actuating members located on opposite sides of the gate and arranged to be operated by the vehicle, operating connections therefrom to the gate and so arranged that the actuation of either of said members swings the gate to open position, a pair of locking dogs, and a tilting member associated with said operating connections and said locking dogs and arranged to be tilted in one direction by the actuation of one of said actuating members to bring one of said dogs into locking position and the other into idle position and to be tilted in the opposite direction by the movement of the other actuating member to release the locking dog.

1,378,184. HYDRAULIC TRANSMISSION MECHANISM. BYRON G. NEWTON, Syracuse, N. Y. Filed Sept. 25, 1919. Serial No. 326,314. 9 Claims. (Cl. 192—61.)



1. Hydraulic power transmitting mechanism comprising, in combination, a liquid container, relatively rotatable driving and driven elements, a rotary member journaled on one of said elements and having rolling contact with the other element, said driven element having circulatory passages for the liquid, means on the driving element for feeding the liquid in the container into one of the said passages, means on said member for feeding liquid from said one of the passages to the other passage, and means operable at will for opening and closing the last named passage to regulate the flow of liquid therethrough and to thereby lock said member against rotation about its axis when the last named passage is closed, whereby to cause rotation of the driven element.

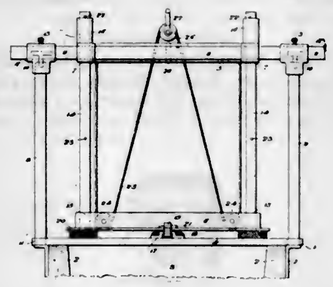
1,378,185. COMBINED LAVATORY AND WATER-HEATER. JOHN S. NICHOLL, Cambridge, Mass., assignor to Electric Boiler Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1921. Serial No. 440,967. 3 Claims. (Cl. 4—1.)



1. In a combined lavatory and water heater, a pedestal, a container arranged within the pedestal, heating means in the pedestal for the container, a single water supply pipe connected to the bottom of the container, an outlet pipe connected to the top of the container and leading to the basin, a branch pipe leading from said supply pipe to the basin for admitting cold water thereto, and draining means connected to the container.

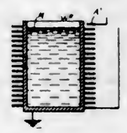
1,378,186. PATTERN-DRAWING MACHINE. WILLIAM C. NORCROSS, Terre Haute, Ind., assignor to American Molding Machine Company, Terre Haute, Ind., a Corporation of Indiana. Filed June 12, 1920. Serial No. 388,531. 5 Claims. (Cl. 22—47.)

1. In a pattern drawing machine, the combination with a supporting frame and upright posts for sustaining said frame, of a slidably mounted pattern drawing frame movable up and down in relation to said supporting frame, and



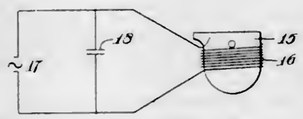
cable and sheave raising and lowering means for said slidably mounted pattern drawing frame.

1,378,187. FOCUS INDUCTOR-FURNACE. EDWIN FITCH NORTHRUP, Princeton, N. J., assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J., a Corporation of New Jersey. Filed Oct. 9, 1918. Serial No. 257,506. 62 Claims. (Cl. 204—64.)



1. In electric heating apparatus, an alternating source of current, a condenser adjusting the phase of the current, a coil supplied with current from said source and a spacing inductor receiving induced current from the coil and distributing the current to the work at a distance from the coil.

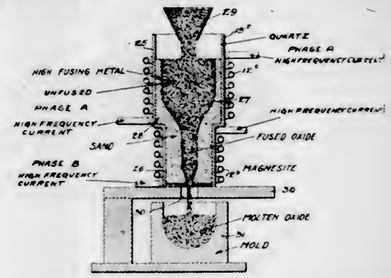
1,378,188. LADLE-HEATING BY HIGH-FREQUENCY CURRENTS. EDWIN F. NORTHRUP, Princeton, N. J., assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J., a Corporation of New Jersey. Continuation of application Serial No. 133,474, filed Nov. 25, 1916. This application filed Nov. 30, 1918. Serial No. 264,808. 24 Claims. (Cl. 204—64.)



1. In casting mechanism, a pouring ladle carrying an induction coil and free from interlinkage of a transformer magnetic circuit therewith.

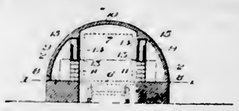
1,378,189. METHOD AND APPAPATUS FOR MELTING OXIDS, &c., WITHOUT CONTAMINATION. EDWIN FITCH NORTHRUP, Princeton, N. J., assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J., a Corporation of New Jersey. Filed July 30, 1919. Serial No. 314,241. 34 Claims. (Cl. 204—64.)

1. In the melting of metallic oxids and like chemicals the combination of a crucible composed of a metallic oxid having a melting point in excess of the intended tempera-



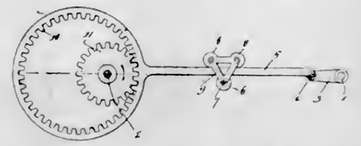
ture of the melt and a molten body of the metal whose oxid is being treated within the bottom of the crucible.

1,378,190. COMBUSTION-CHAMBER FOR TUNNEL-KILNS. JOHN B. OWENS, Zanesville, and ELLSWORTH P. OGDEN, Columbus, Ohio; said Ogden assignor to said Owens. Original application filed May 28, 1918, Serial No. 237,166. Divided and this application filed June 25, 1920. Serial No. 391,637. 3 Claims. (Cl. 25—142.)



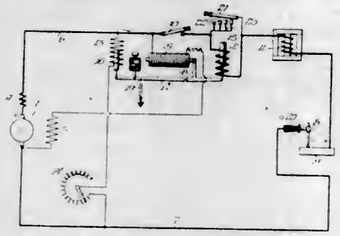
1. A tunnel kiln having a combustion chamber at its side, a baffle for the upper part of the combustion chamber where the latter faces the interior of the tunnel, and piers supporting said baffle, said piers being separated by discharge ports or passages through which the heat and products of combustion pass from the combustion chamber to the interior of the tunnel, said baffle being provided with ports which open into the interior of the tunnel at the lower portion of said baffle and communicate with the combustion chamber in the upper portion thereof.

1,378,191. MECHANICAL MOVEMENT. PAUL PALÉ, Los Angeles, Calif. Filed May 12, 1920. Serial No. 380,756. 7 Claims. (Cl. 74—14.)



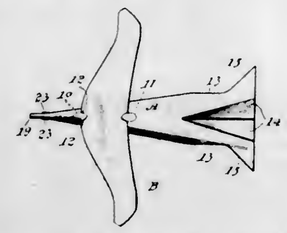
5. A mechanical movement comprising a crank shaft having a crank pin, a second shaft having a gear pinion of a pitch diameter equal to the throw of the crank pin, a stationary fulcrum, and a lever of the first order slidably engaging the fulcrum and connected to the crank pin, the opposite end being formed to provide an internal gear meshing with the gear pinion, the effective lengths of both ends of the lever being equal at all positions, the fulcrum being positioned half way between the two shafts and the gear ratio being two for the internal gear to one for the gear pinion, to transmit rotary motion of one shaft to rotary motion of the second shaft in the same direction and at equal speed and to maintain an even distribution of the transmitted power.

1,378,192. ELECTRIC WELDING APPARATUS AND METHOD OF REGULATING THE SAME. HARRY R. PENNINGTON, Kansas City, Mo. Filed Apr. 22, 1918. Serial No. 229,927. 6 Claims. (Cl. 219—15.)



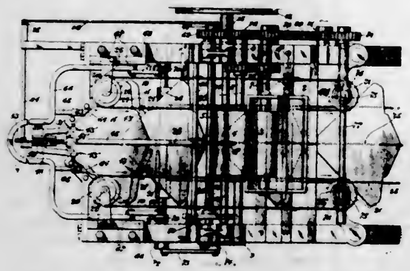
1. Welding apparatus comprising a generator having a shunt field winding, a variable pressure rheostat in series therewith, an arc welding device and conductors connecting the same to said generator, a current responsive coil in the main circuit arranged to vary the resistance of said rheostat to control the energization of said shunt field winding, a reactance coil also connected in the welding circuit, and means for shunting a variable amount of current around said current coil to vary the energization thereof.

1,378,193. FLYING TOY. GEORGE B. PETTY, Evanston, Ill. Filed July 29, 1920. Serial No. 399,829. 6 Claims. (Cl. 244—12.)



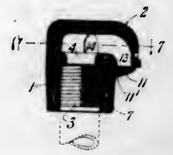
6. A toy aeroplane comprising a body portion formed of a paper blank rolled into substantially conical form, a plane disposed transverse to the axis of the body, and an element for weighting the nose of the body consisting of a wire coil the convolutions whereof engage opposite sides of the nose.

1,378,194. PAPER-FEEDING MECHANISM. CHARLES F. PFLANZE, St. Louis, Mo. Filed Aug. 11, 1919. Serial No. 316,681. 16 Claims. (Cl. 271—1.)



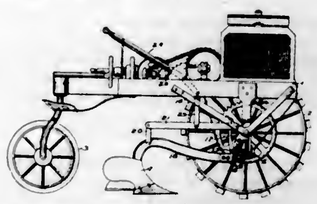
4. In a paper feeding mechanism, a sheet feeder arranged to move forwardly over a pile of the sheets to be fed, said sheet feeder having a forwardly extending sheet holding member adapted to lie between the top sheet and the next adjacent sheet in the pile, and sheet releasing means comprising a lifting device whereby the rear margin of the top sheet is lifted over the plane of said sheet holding member and a reciprocating gripping device whereby the sheet is pulled rearwardly so as to positively release said top sheet from the pile.

1,378,195. PIPE-CAP FOR ELECTRIC CONDUITS. JAMES C. PHELPS, Springfield, Mass.; Charles W. James, Jr., administrator of said James C. Phelps, deceased. Filed Aug. 19, 1915. Serial No. 46,331. 11 Claims. (Cl. 247—6.)



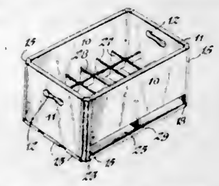
1. An outlet cap for conduits, comprising a base member formed with interior threads thereon for attachment to the conduit, a reinforcing ring embedded in the base member, the upper surface of the base member having a flat surface and formed with an upwardly projecting border, an opening through the projection communicating with the threaded member of the base, a cap for attachment to the base member, the inner upper surface of the cap having a plurality of separated grooves formed therein for the purpose of spreading the wires as they emerge from the base member, and means for attaching the cap to the base member, as described.

1,378,196. TRACTOR-PLOW. OTTO L. PLETTNER and WILLIAM H. LOWE, Continental, Ohio, assignors to The Continental Tractor Company, Continental, Ohio, a Corporation of Ohio. Filed Apr. 10, 1919. Serial No. 289,156. 2 Claims. (Cl. 97—30.)



1. In a tractor plow, a plow having a plow beam, a link connecting the end of the beam of the plow with the frame of the tractor, springs extending laterally from opposite sides of the beam of the plow for yieldingly holding the beam of the plow in its position with reference to the frame of the tractor, a means connected to the plow at a point substantially over the center of gravity of the plow for lifting the plow and allowing lateral play of the plow against the tension of the laterally extending springs.

1,378,197. DELIVERY-CASE FOR BOTTLED BEVERAGES. FRANK X. SCHWAB, Buffalo, N. Y. Filed Jan. 24, 1920. Serial No. 353,694. 5 Claims. (Cl. 217—65.)



1. A case of the character described, comprising side and end walls having end tenons, removable upright

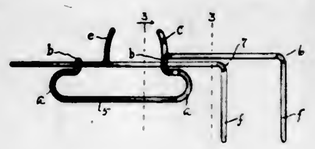
corner connections having vertical grooves which receive said tenons, and locking members extending crosswise of the case and engaging said corner connections to prevent displacement theerof.

1,378,198. LANDING ATTACHMENT FOR PARACHUTES. FLOYD SMITH, Chicago, Ill., assignor to Floyd Smith Aerial Equipment Company, a Corporation of Illinois. Filed Nov. 26, 1919. Serial No. 340,850. 1 Claim. (Cl. 244—21.)



The combination with a parachute comprising a canopy member, a harness for a person, and suspending means extending between said harness and the periphery of the canopy for the purpose of carrying the load from said periphery, of a rope connected to the center of the canopy in such a manner that a pull on the rope is transmitted positively to said center, said rope extending downward to a point within reach of a person carried by said harness.

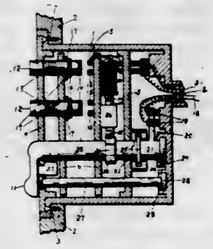
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2. In an instrument for the purpose described, a bearing-strip having transversely disposed end-portions provided with loops, a handle-member approximately of L-shape having one of its ends provided with a curved prong, said handle-member being secured to one of said loops and being disposed in the plane of its prong and said bearing-strip, and a gripping-bar approximately of L-shape having a curved prong, said bar and its prong being adapted to be disposed in the plane of the handle-member and the prong thereof and to have slidable movements in the loops of the bearing-strip for increasing or decreasing the distance between said prongs.

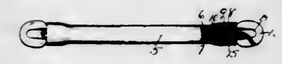
1,378,200. ELECTRIC SAFETY-LOCK. OTTO H. STOLBERG, San Francisco, Calif. Filed May 28, 1918. Seral No. 237,358. 4 Claims. (Cl. 70—63.)

1. An electric permutation lock comprising a source of current, an electromagnet and a lock operated thereby, and a number of buttons in series in the circuit and connections bridging one or more of the buttons, whereby



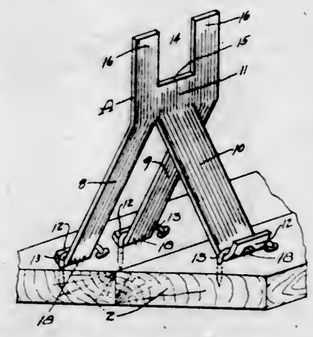
the circuit will be closed only by operating certain of the buttons and leaving the others untouched.

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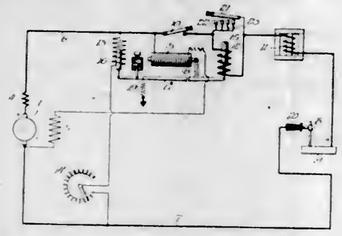
3. An electrical conductor including an insulation of soft flexible material, a core within said material, a terminal comprising a support of tubular shape larger than said core and having means to permit it to penetrate said material, the latter being located both within and without the terminal and exerting a grip thereon sufficient to retain it in place, and means on said terminal to receive an electrical connection.

1,378,202. SUPPORTING-CHAIR FOR SUPPORTING REINFORCING-BARS. OLIVER J. VOELPEL, St. Louis, Mo. Filed Sept. 8, 1919. Serial No. 322,343. 2 Claims. (Cl. 72—122.)



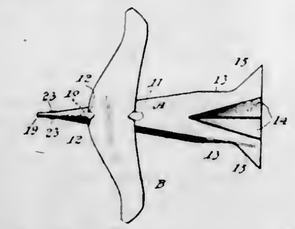
1. A chair for supporting reinforcing bars in reinforced concrete slab construction comprising a body portion having a seat for supporting the reinforcing bars, guide arms to prevent extreme lateral movement of the reinforcing bars upon their seat, supporting legs having feet for said body portion, prongs formed integral with the legs adjacent the feet thereof to prevent spreading of the legs when a load is applied to the chair and said guide arms together with the other members of the chair adapted to serve as a slab thickness gage.

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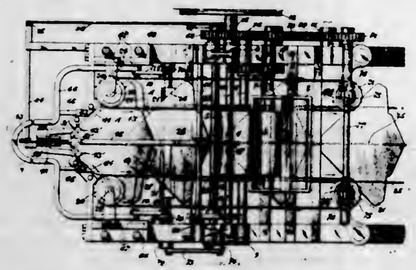
1. Welding apparatus comprising a generator having a shunt field winding, a variable pressure rheostat in series therewith, an arc welding device and conductors connecting the same to said generator, a current responsive coil in the main circuit arranged to vary the resistance of said rheostat to control the energization of said shunt field winding, a reactance coil also connected in the welding circuit, and means for shunting a variable amount of current around said current coil to vary the energization thereof.

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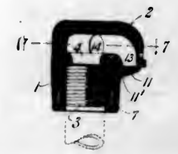
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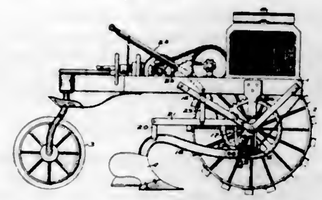
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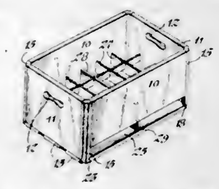
1. An outlet cap for conduits, comprising a base member formed with interior threads thereon for attachment to the conduit, a reinforcing ring embedded in the base member, the upper surface of the base member having a flat surface and formed with an upwardly projecting border, an opening through the projection communicating with the threaded member of the base, a cap for attachment to the base member, the inner upper surface of the cap having a plurality of separated grooves formed therein for the purpose of spreading the wires as they emerge from the base member, and means for attaching the cap to the base member, as described.

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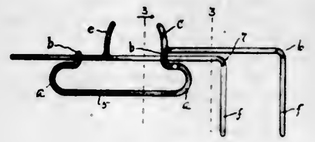
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The combination with a parachute comprising a canopy member, a harness for a person, and suspending means extending between said harness and the periphery of the canopy for the purpose of carrying the load from said periphery, of a rope connected to the center of the canopy in such a manner that a pull on the rope is transmitted positively to said center, said rope extending downward to a point within reach of a person carried by said harness.

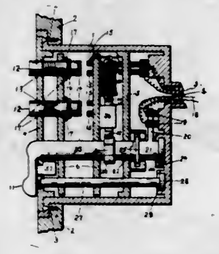
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2. In an instrument for the purpose described, a bearing-strip having transversely disposed end-portions provided with loops, a handle-member approximately of L-shape having one of its ends provided with a curved prong, said handle-member being secured to one of said loops and being disposed in the plane of its prong and said bearing-strip, and a gripping-bar approximately of L-shape having a curved prong, said bar and its prong being adapted to be disposed in the plane of the handle-member and the prong thereof and to have slidable movements in the loops of the bearing-strip for increasing or decreasing the distance between said prongs.

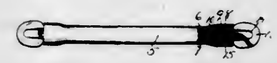
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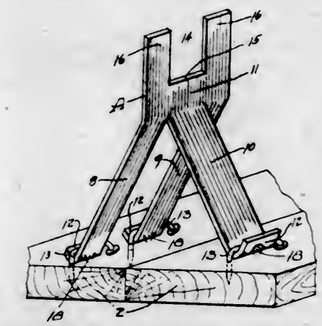
the circuit will be closed only by operating certain of the buttons and leaving the others untouched.

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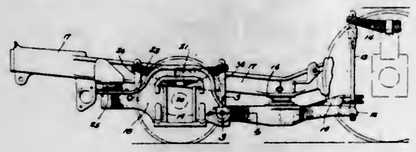
3. An electrical conductor including an insulation of soft flexible material, a core within said material, a terminal comprising a support of tubular shape larger than said core and having means to permit it to penetrate said material, the latter being located both within and without the terminal and exerting a grip thereon sufficient to retain it in place, and means on said terminal to receive an electrical connection.

1,378,202. SUPPORTING-CHAIR FOR SUPPORTING REINFORCING-BARS. OLIVER J. VOELPEL, St. Louis, Mo. Filed Sept. 8, 1919. Serial No. 322,343. 2 Claims. (Cl. 72—122.)



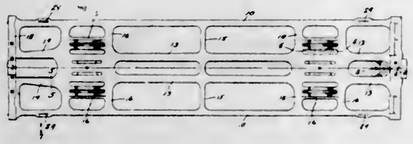
1. A chair for supporting reinforcing bars in reinforced concrete slab construction comprising a body portion having a seat for supporting the reinforcing bars, guide arms to prevent extreme lateral movement of the reinforcing bars upon their seat, supporting legs having feet for said body portion, prongs formed integral with the legs adjacent the feet thereof to prevent spreading of the legs when a load is applied to the chair and said guide arms together with the other members of the chair adapted to serve as a slab thickness gage.

1,378,203. TRAILER-TRUCK FOR LOCOMOTIVES. CHARLES T. WESTLAKE, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Sept. 5, 1919. Serial No. 321,865. 23 Claims. (Cl. 105—82.)



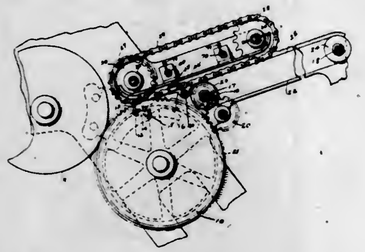
1. A trailer truck frame comprising two main parts which are pivotally connected to each other, the forward portion of the front part being adapted to be pivoted to the main frame of a locomotive, and a wheel carrying axle journaled in the rear part of said trailer truck frame.

1,378,204. LOCOMOTIVE-TENDER UNDERFRAME. CHARLES T. WESTLAKE, St. Louis, Mo., assignor to Locomotive Tender Frame Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 19, 1919. Serial No. 339,149. 14 Claims. (Cl. 105—415.)



1. A locomotive tender underframe cast in a single piece and provided with integrally formed longitudinal sills, end sills, and double body bolsters.

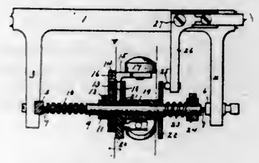
1,378,205. SHEET-POSITIONING MECHANISM. JOSEPH WHITE, Piscataway township, Middlesex county, N. J., assignor, by direct and mesne assignments, of one-half to Hall Printing Press Company, Dunellen, N. J., a Corporation of New Jersey, and one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 14, 1911. Serial No. 665,625. 48 Claims. (Cl. 271—48.)



35. A sheet feeding mechanism for printing presses comprising endless means traveling in a partly circular and partly non-circular path for feeding the sheets to the press and devices carried by the sheet feeding means for bringing the sheets into both end and side register with respect to the printing form while they are in motion.

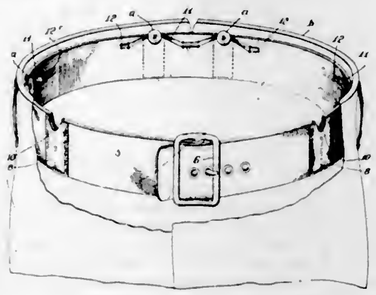
1,378,206. SPRING-MOTOR GOVERNOR. GEORGE M. WILLSON, Williamsport, Pa. Filed Apr. 30, 1919. Serial No. 293,669. 5 Claims. (Cl. 188—187.)

1. In a spring motor governor, the combination of a rotatable governor shaft, a spider rigidly mounted thereon, centrifugal weights pivotally mounted upon said spider, a loosely sliding spool upon said shaft, arms upon said weights coöperating with said spool to move it in one



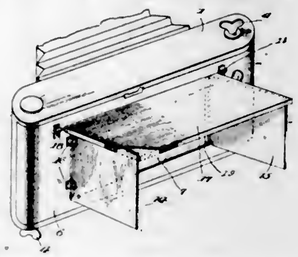
direction, an adjustable collar upon said shaft and a spring upon said shaft between said collar and spool for opposing the movement of said spool under the influence of said weights.

1,378,207. TROUSERS-BELT. MYRON AWNER, Chicago, Ill. Filed June 28, 1920. Serial No. 392,432. 5 Claims. (Cl. 241—9.)



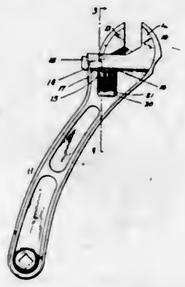
1. An inside trousers-belt having upwardly-open notches to receive button shanks and, for respective notches, resilient retaining members extending horizontally of the belt below the notches adapted to pass over the buttons and engage the upper side of their shanks.

1,378,208. CAMERA. WILLIAM E. BAILEY, Rock Island, Ill. Filed Apr. 22, 1918. Serial No. 230,123. 6 Claims. (Cl. 95—49.)



1. The combination with a camera having a back provided with a focusing opening, adapted to register with openings in a film backing, a ground-glass positioned within said camera and over said opening, flat springs carried by said camera back and engaging said ground-glass to normally hold the ground-glass in engagement with the camera back out of the path of said film, and guards carried by said ground-glass plate and extending over said springs to prevent engagement of the film backing with the springs.

1,378,209. WRENCH. JEROME E. BERGMAN, Buffalo, N. Y. Filed May 8, 1919. Serial No. 295,604. 4 Claims. (Cl. 81—165.)



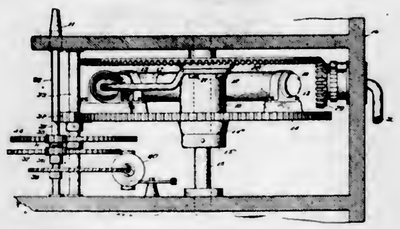
1. A wrench, comprising a head carrying a fixed jaw, a movable jaw, a rotary adjusting-member for the movable jaw, said head having a beveled surface, and a resilient frictional detent engaging said beveled surface and bearing constantly against said adjusting member.

1,378,210. COLLAPSIBLE LUGGAGE-HOLDER. ALFRED L. BERRY, Lincoln, Nebr. Filed Aug. 6, 1920. Serial No. 401,788. 2 Claims. (Cl. 224—29.)



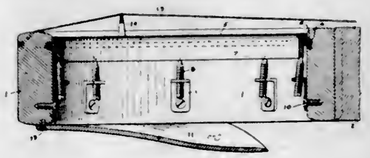
1. In a collapsible luggage-holder for a support, a lazy-tongs, a pair of pivot-posts each being movably connected adjacent to its ends with one of the ends of the lazy-tongs, a pair of end-sections, each including a pair of hook-arms for a removable connection with the support, said hook-arms being movably mounted upon and near the respective ends of said pivot-posts, spacing-strips engaging and tending to prevent swinging movements of the arms of a section from or toward each other, spacing-hooks pivotally mounted upon the lazy-tongs near the top and bottom thereof for a removable connection with the support, and a pair of adjusting-strips, each being provided with a terminal hook and having a pivotal connection with a hook-arm of a section for engaging one of said spacing-hooks.

1,378,211. MOTOR. BURR B. BLOOD, Chicago, Ill., assignor to George Heidman and Norman A. Street, Chicago, Ill. Filed July 23, 1919. Serial No. 312,674. 12 Claims. (Cl. 230—35.)



1. A motor of the class described, comprising a cylinder or tube closed at one end, said cylinder or tube being adapted to travel through the arc of a circle, a plunger or piston mounted in said cylinder or tube and in air-tight relation therewith, means whereby the plunger or piston may be drawn toward the open end of said cylinder or tube, and means operatively connected with the cylinder or tube whereby movement of said cylinder will be transmitted to a rotatably mounted member.

1,378,212. BANJO. JOHN A. BOLANDER, Berkeley, Calif. Filed June 25, 1917. Serial No. 176,775. 7 Claims. (Cl. 84—269.)



1. A musical string instrument, comprising an annular body having an interior continuous groove, a head, a spring ring fitting in said groove and holding the head therein, the edge of the head being extended beyond said spring ring and bent back beneath the head, a hoop within said body engaging the extended edge of the head, and means for forcing said hoop outwardly.

7. A musical string instrument, comprising an annular body of substantial thickness having downwardly opening recesses formed therein, passages leading from said recesses to the top face of the body and strings extending over said body through said passages into said recesses and there secured.

1,378,213. LEATHER-MAKING PROCESS. PAUL BRANT, Bristol, Ind., and HERMAN T. WILSON, Petoskey, Mich.; said Wilson assignor of his entire right to Victor N. Brant, Bristol, Ind. Filed July 31, 1918. Serial No. 247,507. 10 Claims. (Cl. 149—6.)

1. That part of the process of making leather which comprises subjecting the partly prepared leather containing tannin to the action of dissolved gluey matter and tannin in the presence of an alkaline material, and thereafter to an acid solution.

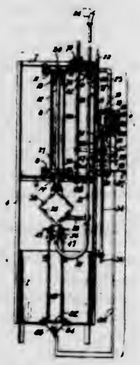
1,378,214. TOWEL-RACK. EDWIN T. BRIGHAM, Kansas City, Mo., assignor to Jacques Rousso, Los Angeles, Calif. Filed Sept. 26, 1912. Serial No. 722,473. 8 Claims. (Cl. 45—32.)



8. A towel rack comprising a pair of brackets, one being hollow and having a keyhole-shaped slot of which

the narrow portion is nearest the other bracket, a U-shaped spring rod arranged with its arms substantially horizontal, one of the arms engaging one of the brackets and the other arm being capable of being fitted into the other bracket through the enlarged end of the keyhole slot thereof, the last-named arm having grooves at opposite sides to receive the edges of the walls of the bracket at opposite sides of the narrow portion of the keyhole slot, and a locking device extending through the slotted bracket to prevent the arm engaging the narrow portion of the keyhole slot from being sprung downward into the enlarged portion of said slot.

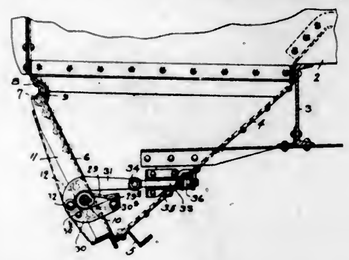
1,378,215. CAN-TESTING MACHINE. WILFORD E. BURNS, San Francisco, Calif., assignor to Max J. Brandenstein, Manfred Brandenstein, and Edward Brandenstein, San Francisco, Calif., a Firm doing business as M. J. Brandenstein & Co. Filed Jan. 31, 1920. Serial No. 355,362. 16 Claims. (Cl. 73—51.)



14. A control mechanism for a fluid pressure operated piston comprising a cylinder in which said piston slides, a valve box formed with an air chamber therein, means for introducing air under pressure into said air chamber, means providing a passage from each end of the cylinder to said air chamber, means providing an exhaust passage from said air chamber, a valve in said air chamber movable to uncover either passage to said cylinder and to place the other passage in communication with said exhaust passage, a manually controlled slide for moving said valve, a lever pivoted on said slide, means for blocking said exhaust passage connected to one end of said lever and normally lying to one side of said passage, and means operating in time with the movement of said piston for moving said lever about its pivot on said slide to move said blocking means across said exhaust passage.

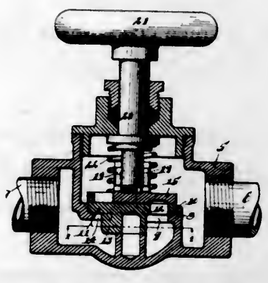
1,378,216. CAR-DOOR-OPERATING MECHANISM. ANDREW CHRISTIANSON, Butler, Pa., assignor to Standard Steel Car Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 16, 1919. Serial No. 311,121. 1 Claim. (Cl. 105—299.)

In door operating mechanism for side dump-cars, the combination of a swinging door, a shaft journaled in said door, winding connections between said shaft and the car body, a ratchet-wheel rigidly mounted on said shaft, and a lever socket loosely mounted on said shaft, a plate loosely mounted on said shaft connected to said lever socket, said ratchet-wheel being located between said plate and said lever socket, a holding pawl for said ratchet-



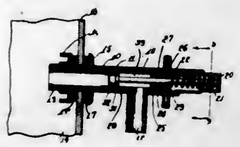
wheel, and a pawl mounted between said plate and said lever socket.

1,378,217. VALVE. JOHN J. CLIFFORD, Chicago, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Filed May 19, 1919. Serial No. 298,020. 4 Claims. (Cl. 251—84.)



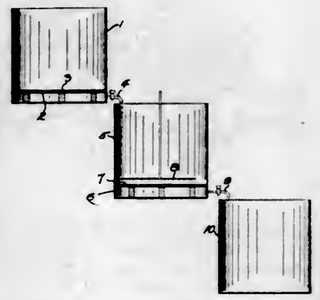
1. A valve, comprising a valve casing; a removable valve seat in said casing, having a valve opening extending therethrough; a rotary valve head coöperating with said seat and having a valve opening extending therethrough, and adapted to be brought into and out of registration with the opening in said valve seat; and a removable valve stem for said valve head, said valve stem and valve head having registering marks thereon indicating proper registration with each other and said valve seat, substantially as described.

1,378,218. FAUCET. GEORGE WINTHROP COOKE, Jamaica, N. Y. Filed Apr. 24, 1918. Serial No. 230,572. 3 Claims. (Cl. 251—137.)



2. A faucet comprising a casing made of a short length of tube, and having an inlet and an outlet, and an inner tubular member made of softer material than that of said casing and closely fitting the inner periphery thereof and having a valve seat formed in one end thereof; and a valve in said casing located opposite said valve-seat and provided with a valve stem which extends through said inner tubular member in water tight relation with its opposite end.

1,378,219. METHOD FOR PRODUCING ZINC CHLORID. PAUL DANCKWARDT, Denver, Colo., assignor to The Danckwardt Process Company, Denver, Colo., a Corporation of Colorado. Filed June 23, 1919. Serial No. 306,182. 5 Claims. (Cl. 23—13.)



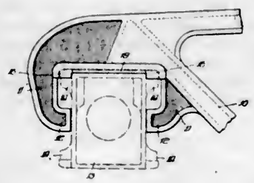
1. A process of producing zinc chlorid, which consists in treating a solution of aluminum chlorid with a zinc oxid, separating the precipitated aluminum oxid by filtering from the zinc chlorid solution, evaporating the filtrate and fusing the residue.

1,378,220. SHOE-HEEL LIFT. NUNZIO DAQUINO, Turtle Creek, Pa. Filed Aug. 30, 1920. Serial No. 407,059. 3 Claims. (Cl. 36—35.)



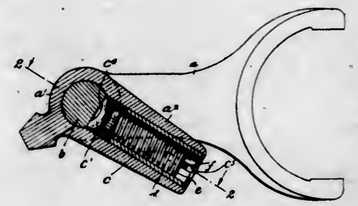
1. A lift for shoes having an upwardly curved central area, an upwardly curved cup-shaped rim forming the sides and rear edge of said lift, a transverse beveled rim on the forward end of the lift the upper edge of which has comparatively short upwardly extending corners, and a central portion formed at a lower elevation than the upper edge of the aforesaid cup-shaped rim, to prevent puckering of the lift material when attached to a flat surface.

1,378,221. SIDE FRAME. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 25, 1920. Serial No. 368,640. 5 Claims. (Cl. 105—220.)



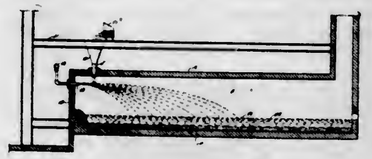
5. A pedestal truck side frame having four lugs for embracing adjacently arranged bolt lugs of the journal box, and having two flanges connecting certain of said four lugs for embracing shoulders on the journal box normally to prevent relative lateral movement between said side frame and journal box.

1,378,222. SHIFTER-FORK PLUNGER. MAXIMILIAN C. FAINS, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1920. Serial No. 406,157. 5 Claims. (Cl. 74—39.)



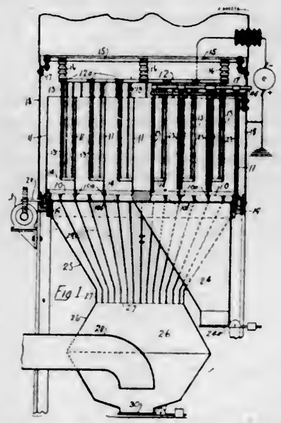
1. As an article of manufacture, a shifter fork plunger having a nose formed with oppositely tapered side walls terminating in a blunt nose curved transversely.

1,378,223. METHOD FOR GRANULATING CONVERTER-SLAG. SAMUEL RICHARD GARR, Chula, Mo., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 18, 1919. Serial No. 331,705. 8 Claims. (Cl. 266—34.)



1. In the art of granulating converter slag as it is fed to an ore smelting reverberatory furnace, the process which consists in pouring a molten charge of the slag in a stream into the furnace and projecting a stream of steam under relatively high pressure against the falling slag stream to cause a disintegration of the slag and to spread the same over a large portion of the surface of the reverberatory charge in the furnace.

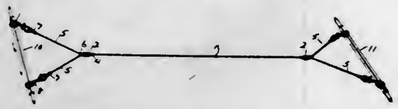
1,378,224. ART OF ELECTRICAL PRECIPITATION OF PARTICLES FROM FLUID STREAMS. CHARLES W. GIRVIN, Philadelphia, Pa. Filed Feb. 16, 1918. Serial No. 217,489. 21 Claims. (Cl. 183—7.)



1. In apparatus of the character described and wherein opposing electrode systems are movable relatively to each

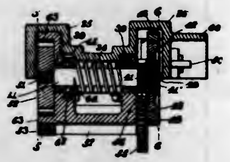
other and adapted to produce an electric field or fields, means operative to isolate a space of predetermined cross-sectional area from field activity, and means whereby deposits collected on a face of one of said systems will be removed from such face while free from such activity.

1,378,225. TOWING DEVICE. MAX MILLIAM GOLDMAN, Somerville, Mass. Filed Dec. 26, 1918. Serial No. 268,407. 2 Claims. (Cl. 213—67.)



1. In connecting devices for towing purposes, a main cable having an attaching eye at each end, bracing cables secured in said eyes and having eyes at their free ends, attaching cables having eyes at each of their ends and adapted to be looped in spaced position around an element in the device to be towed, and means for detachably securing the eyes of the bracing cables to those of the attaching cables.

1,378,226. LIFTING-JACK. FRANK L. GOAMLEY, Brookline, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed Sept. 3, 1920. Serial No. 408,012. 10 Claims. (Cl. 254—103.)



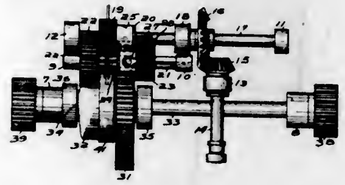
1. In a lifting jack, a revoluble operating shaft; a revoluble gear in axial alinement therewith; means on said shaft for rotating said gear in one direction only and that during the lowering operation; a worm adapted to be rotated by said gear; a gear secured to one end of said worm; a pinion meshing therewith; a shaft parallel to said worm to one end of which said pinion is secured; a gear secured to the opposite end of said parallel shaft; a pinion freely revoluble about the axis of said worm and meshing with the gear on said parallel shaft; a brake wheel revoluble with the last-mentioned pinion; and means coacting with said brake wheel for normally preventing the rotation thereof.

1,378,227. COIN-HOLDER. MILFRED L. GREENSTREET, Maplewood, Mo., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo., a Corporation of Missouri. Filed June 23, 1919. Serial No. 306,176. 2 Claims. (Cl. 133—6.)



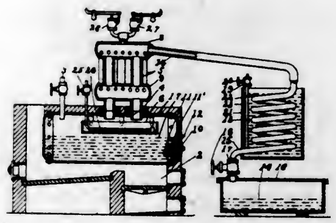
1. A coin holder comprising a substantially flat body member having its outer lateral edges bent upwardly to form flanges, said flanges providing between them coin retaining surfaces and the upper part of said flanges being bent outwardly and then inwardly so as to provide retaining surfaces adjacent to the first-mentioned retaining surfaces.

1,378,228. TRACTOR DRIVING-GEAR. NOBLE W. HARTMAN, Toledo, Ohio, assignor to The Continental Tractor Company, Continental, Ohio, a Corporation of Ohio. Filed Mar. 15, 1920. Serial No. 365,812. 1 Claim. (Cl. 74—58.)



In a driving gear for tractors, a casing formed of two parts, a pair of shafts supported between the two parts, the said shafts having gear wheels, a third shaft having a pair of gear wheels and supported in one of the parts and so as to mesh with gear wheels of the first named shafts when the said parts are secured together, a split double collar for connecting gear wheels of one of the first named shafts and a gear wheel on the last named shaft, a rod extending through the casing for shifting the collar together with the gear wheels connected to the collar along their respective shafts.

1,378,229. PROCESS OF DISTILLING PETROLEUM. ENOCH O. HICKS, St. Joseph, Mo. Filed Apr. 17, 1920. Serial No. 374,743. 2 Claims. (Cl. 196—25.)

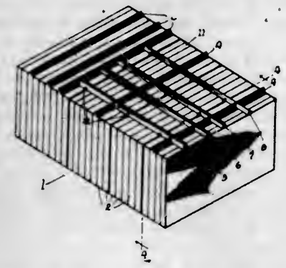


1. The process of treating the liquid portions of the paraffin-series of petroleum distillation having a boiling point upward of 500° F. for obtaining therefrom low boiling point products of the same series, which consists of vaporizing in a still the volatile consituents of said liquid portions of petroleum at a temperature of from about 650 to about 850° F. condensing said vapor, revaporizing said condensed vapor in condensate receptacles in said still for continually maintaining separation of said condensates from said liquid portions of petroleum throughout the entire process, thereby maintaining the viscous nature of the latter, recondensing said revaporized vapor, maintaining a pressure of from about 4 to 5 atmospheres on said liquid of said vapors throughout their course to and while undergoing condensation, and releasing from time to time the accumulation of gas from the products of condensation.

1,378,230. PRINTING-FORM AND MEANS OF RULING SAME. WILLIAM C. HOLLISTER, Chicago, Ill., assignor to Chicago Lino-Tabler Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 29, 1918, Serial No. 214,379. Divided and this application filed July 29, 1918. Serial No. 247,124. 7 Claims. (Cl. 199—66.)

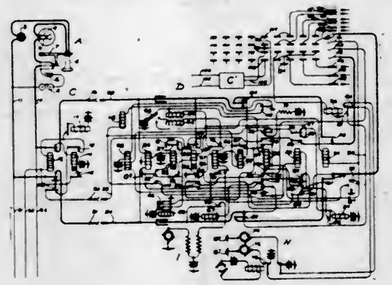
6. A series of matrices for use in producing slugs with longitudinal ribs provided with rule receiving notches,

such series varying in width by uniform increments from a relatively narrow width to a relatively wide width,



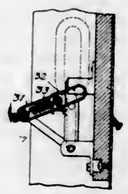
whereby any desired length of rib increasing by points from one 6 points long to one 36 points long and longer can be produced.

1,378,231. AUTOMATIC TELEPHONE SYSTEM. JOHN H. HOMRIGHOUS, Oak Park, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1919. Serial No. 281,763. 21 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic switch, a line leading to said switch, trunk lines accessible thereto, an auxiliary switch individual to said automatic switch for selecting one of said trunk lines, means for transmitting a plurality of series of impulses over said line, and means responsive to the first series of said impulses for causing said auxiliary switch to select one of said trunk lines without operating said automatic switch.

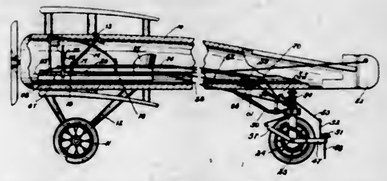
1,378,232. ELECTRICAL SWITCH. BRYSON D. HORTON, Detroit, Mich. Original application filed Jan. 22, 1915, Serial No. 3,703. Divided and this application filed Oct. 28, 1918. Serial No. 259,888. 25 Claims. (Cl. 200—73.)



8. An electrical switch, comprising an operating crank, movable contacts, an insulating crosshead connected to the contacts for operating the same, and a snap mechanism between the crank and crosshead and comprising a spring connected to both said parts and a metal member connected directly to one of said parts and connected to the other part through an elongated slot, said other part being metallic.

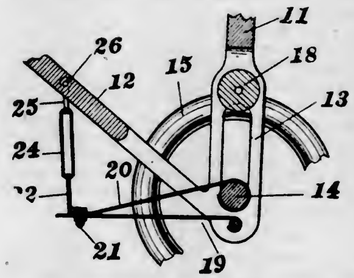
19. In an inclosed-switch structure, in combination a casing thereof having an aperture in each of two opposite walls, and a switch operating member composed of a continuous unitary rod centrally offset to provide a bail-shaped portion with two alined bearing portions adjacent thereto and formed at one end to provide an external handle, said member being tortuously insertible longitudinally into position for locating said alined bearing portions in the respective apertures aforesaid.

1,378,233. STEERING AND BRAKING DEVICE FOR AEROPLANES. JOHN THOMAS HUGHES, Council Bluffs, Iowa. Filed Aug. 10, 1920. Serial No. 402,721. 3 Claims. (Cl. 244—2.)



1. In combination with an aeroplane having the usual steering apparatus, of a resiliently supported landing wheel mounted to turn about a substantially vertical axis, connections between such steering mechanism and the ground wheel for turning the same about such axis, braking means associated with such wheel, further braking means adapted to come in contact with the ground, and a common means on the aeroplane for controlling both of said braking means.

1,378,234. AEROPLANE SHOCK-ABSORBER. JOHN T. HUGHES, Council Bluffs, Iowa. Filed Aug. 12, 1920. Serial No. 403,003. 3 Claims. (Cl. 244—2.)

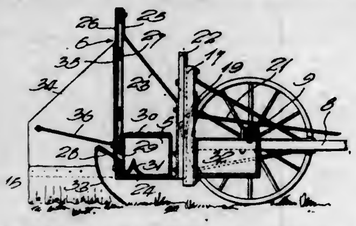


1. In combination with an aeroplane, supporting legs therefor having slots therein, an axle movable in said slots, wheels on said axle, pairs of leaf springs connected together at one end and having their opposite free ends secured respectively to said axle and to said legs, means to secure the joined ends of said springs to the legs, and a bumper for limiting the movement of said axle.

1,378,235. GRASSHOPPER-CATCHER. AUGUST JAHN, Omak, Wash. Filed July 1, 1919. Serial No. 307,883. 3 Claims. (Cl. 43—133.)

1. In a grasshopper catcher, a screen mounted to travel over ground occupied by grasshoppers, and a receptacle to receive the grasshopers from said screen, said receptacle having a horizontal slot through one of its sides, said screen having a slot in registry with the slot of said receptacle, a downwardly and rearwardly inclined chute

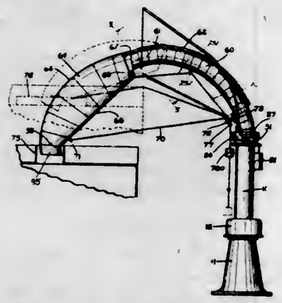
communicating with said slots, and a flexible insect-disturbing member depending from and extending below said



chute to disturb the grasshoppers and cause them to jump into the path of the portion of the screen above said chute.

1,378,236. RAILWAY WATER-COLUMN. EDWARD E. JOHNSON, St. Paul, Minn. Filed Dec. 1, 1916. Serial No. 134,474. 17 Claims. (Cl. 137—21.)

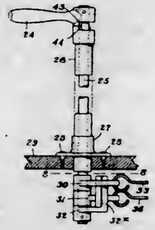
1. A railway water column comprising a standpipe having a curved delivery nozzle, and a correspondingly-curved discharge spout which together form a continuously-curved water course of variable length.



15. A railway water column comprising a revoluble standpipe terminating in a laterally-extended delivery portion, a bail secured to the end of said portion so as to bridge the open mouth thereof, and a discharge spout movable along said delivery portion and over said bail.

17. A railway water column comprising a standpipe having a delivery nozzle with a curved upper surface, a discharge spout enveloping said nozzle, and a roller journaled in the rear of said discharge spout and engageable with said curved upper surface, said roller by engagement with said curved upper surface operating as the sole means of support of the spout while the same is being forwarded along the curved nozzle.

1,378,237. SIGNALING DEVICE. WALTER H. JOHNSON, Boston, Mass., assignor to Chester I. Campbell, Quincy, Mass. Filed Mar. 1, 1918. Serial No. 220,105. 3 Claims. (Cl. 116—4.5.)



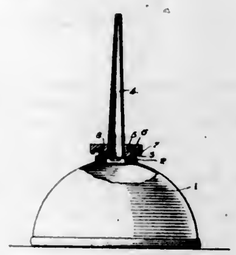
1. A signaling device comprising a controlling rockshaft, a bearing structure for said rockshaft, two oscillatory members loosely arranged up on said rockshaft, an actuator common to both said members, said actuator being affixed to said rockshaft, one of said members being arranged to be moved by said actuator when said rockshaft is moved in one direction from a median angular position, the other one of said members being arranged to be moved by said actuator when said rockshaft is moved in the opposite direction from said median position, two independently movable signals, means for transmitting angular motion from one of said members to one of said signals, means for transmitting angular motion from the other one of said members to the other one of said signals, and means arranged to lock said rockshaft against return angular motion toward said median position when said rockshaft is displaced to either side of said position a predetermined angular extent, said locking means including oscillatory shoulders carried by said rockshaft and fixed shoulders, said oscillatory shoulders being movable to and from locking position by endwise movement of said rockshaft.

1,378,238. COLLAR-BUTTON. ROGER A. KAHL, Wallingford, Conn. Filed Sept. 16, 1919. Serial No. 324,160. 2 Claims. (Cl. 24—101.)



1. A collar button comprising a base, a flat plate-like shank formed on said base, a pair of notches formed in one edge of said shank, and a third notch formed on the opposite edge of said shank at a point between the first-mentioned notches.

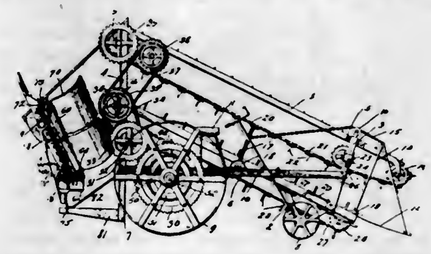
1,378,239. OIL-CAN. ARTHUR E. KAMMAITZ, Hartford, Conn. Filed Apr. 30, 1920. Serial No. 377,831. 3 Claims. (Cl. 221—32.)



1. An oil can comprising a body and a nozzle, the body having a nipple composed of a plurality of elliptical portions having their long axes at right angles, a nozzle having a head circular in cross section and of a diameter corresponding to the length of the short axes of the said portions whereby to permit the head to enter either of the said portions, said head being annularly grooved, and a compression spring held within the groove and of elliptical form and shape to fit and fill either of the elliptical portions of the nozzle, said head having an outwardly extending flange provided with a marginal rib for holding a packing between the said rib and the body of the head for engagement by the end of the nipple.

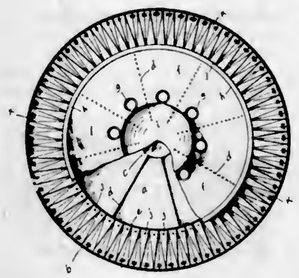
1,378,240. GRAIN-SHOCK LOADER. FRANK KAPINOS and GEORGE CHIZEK, Canby, Minn. Filed July 25, 1917, Serial No. 182,749. Renewed Oct. 15, 1920. Serial No. 417,279. 3 Claims. (Cl. 193—16.)

1. In a grain shock loader, a wheeled frame having elevating conveyer means, a trough mounted transversely of the frame at its rear end below the elevating conveyer means and having a central longitudinal opening in its bottom, an endless conveyer movable through the center opening in the bottom of the trough, a vertically and horizontally swinging trough supported at one end of the
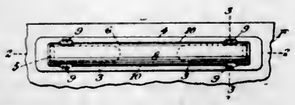


first named trough and having a central longitudinal opening in its bottom, an endless conveyer movable in the opening of the last named trough, means for vertically adjusting said last named trough, and connections between the conveyers in the troughs for simultaneously operating the same.

1,378,241. EDUCATIONAL APPLIANCE FOR ARITHMETIC. JOSÉ KECKEIS, Portland, Oreg. Filed Apr. 14, 1920. Serial No. 373,697. 3 Claims. (Cl. 46—57.)



2. An educational appliance, comprising a circular base having a sloping upper surface and an upwardly extending rim at the circumference, sectoral compartments radiating from the center toward the edge, a space between the lower edge of the peripheral wall of said compartments and the base to permit the passage of a marble, a concave dish covering the top of said compartments and openings in the bottom of said concave dish to permit a marble circulating in said dish to enter non-selectively one of the compartments below said dish.

1,378,242. PAPER-FASTENER. FRED J. KLINE, New York, N. Y. Filed Dec. 4, 1919. Serial No. 342,421. 4 Claims. (Cl. 24—153.)



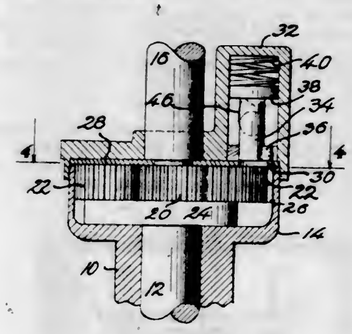
3. The combination with a member embodying two spaced apart tongues adapted to be pushed through papers, of a retaining member having two holes through which the tongues can be passed and bent down flat on the retaining member and two pairs of projections struck up from the interior part of the retaining member, one pair near each end, and a tongue-covering member adapted to be passed under and held by said projections with its side edges in contact with the upper surface of the retaining member.

1,378,243. WINDOW-CLEANER. LOUISE S. KRACKE, Chicago, Ill. Filed Nov. 16, 1920. Serial No. 424,494. 2 Claims. (Cl. 15—59.)



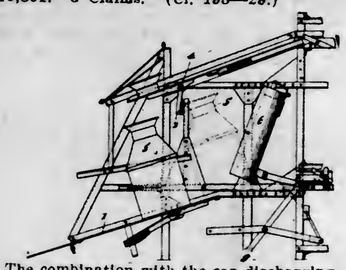
1. In a window cleaner, the combination with a thin flat substantially triangular shaped body having its faces parallel and provided on one of its faces with a depression substantially co-extensive with said face, said body having at one of its ends a pair of spaced apart alined enlargements, each of said enlargements having in its outer end an opening, of a clamping member corresponding in shape to that of said body adapted to fit around the perimeter of the latter, said clamping member having its adjacent ends located in the openings of said enlargements for pivotally connecting the clamping member and body together, and a transversely ribbed pad located in the said depression of the body.

1,378,244. STEERING-WHEEL LOCK. WILLIAM J. LANE, Denver, Colo. Filed Oct. 31, 1919. Serial No. 334,652. 10 Claims. (Cl. 70—129.)



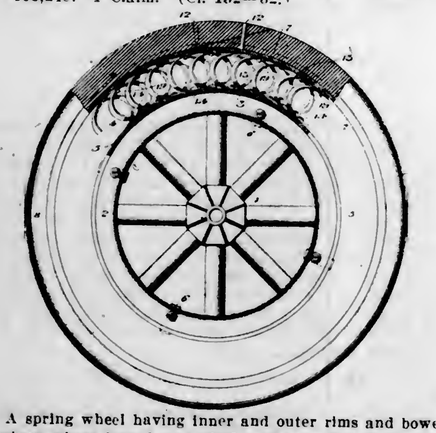
1. In combination, a steering wheel post, a gear casing having an internal gear thereon, a pinion on said post, gears meshing with said pinion and with said internal gear, a reciprocable key mounted in said casing and adapted to engage the internal gear to lock said post, means to move said key into and out of engagement with said internal gear, and a plate secured to said post and rotatable therewith, said plate having a keyhole for passage of said key into engagement with the internal gear.

1,378,245. CAN-WASHING MACHINE. HARRY D. LATHROP, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,801. 3 Claims. (Cl. 193—29.)



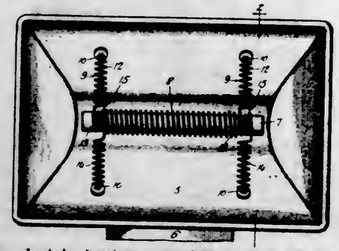
1. The combination with the can discharging mechanism of a can washing machine, of a stop set in the path of a can being discharged, said stop being arranged to yield and be forced from said path by the can itself, substantially as described.

1,378,246. DEMOUNTABLE SPRING-TIRE. LOUIS COMPE, Butte, Mont. Filed Aug. 23, 1920. Serial No. 405,248. 1 Claim. (Cl. 152—32.)



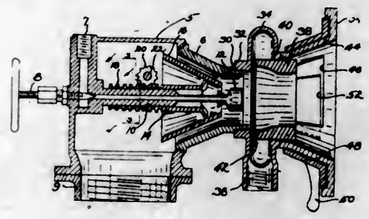
A spring wheel having inner and outer rims and bowed springs whose bowed or arched parts are detachably connected to one of the rims and whose ends are spaced apart transversely of the other rim and connected thereto, said springs having their general extent or length disposed obliquely or angularly crosswise in relation to the said rims and being provided with ends which lie in the plane of the wheel.

1,378,247. ELECTRIC HEATER. EDWIN N. LIGHTFOOT, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 31, 1920. Serial No. 355,340. 16 Claims. (Cl. 219—34.)



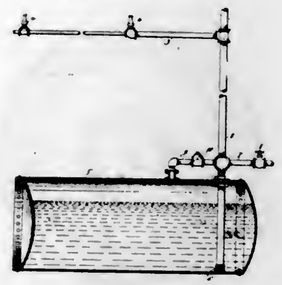
1. An electric heater comprising an insulating tube, a resistor carried thereby, a support, and a helical spring connected with the support and having means to engage the insulating tube.

1,378,248. COMBINATION-BURNER. GEORGE W. LINDSAY, Denver, Colo., assignor to The Denver Fire Clay Company, Denver, Colo., a Corporation of Delaware. Filed Apr. 21, 1919. Serial No. 291,475. 3 Claims. (Cl. 158—74.)



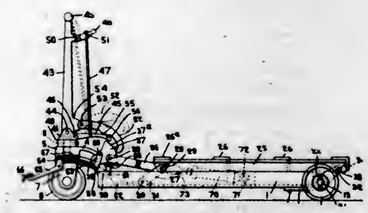
2. In a combination burner, an oil burner having a nozzle piece, a gas burner lying beyond and fitted thereto and comprising a gas head, means to supply gas to said head, and a nozzle piece threaded into the forward wall of said gas head, said nozzle piece being rotatable by means of the threaded connection to control the flow of gas thereto, and an air supply.

1,378,249. AUTOMATIC SPRINKLER SYSTEM. ALBERT J. LOEPSINGER, Edgewood, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of New York. Filed Aug. 26, 1916. Serial No. 116,961. 4 Claims. (Cl. 169—9.)



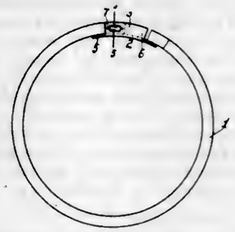
3. An automatic sprinkler system comprising a closed tank partly filled with liquid, a sprinkler pipe system including a supply pipe entering the tank and terminating below the normal level of the liquid therein, the sprinkler pipe system and the space in the tank above the level of the liquid being filled with compressed air at the service pressure, a by-pass pipe connecting the supply pipe and the air space in the tank and containing a check valve arranged to open toward the tank, and pipe connections for admitting the compressed air to the sprinkler pipe system.

1,378,250. ELEVATING HAND-TRUCK. RALPH M. LOVEJOY, Meredith, N. H. Filed Mar. 1, 1916. Serial No. 81,521. 15 Claims. (Cl. 254—10.)



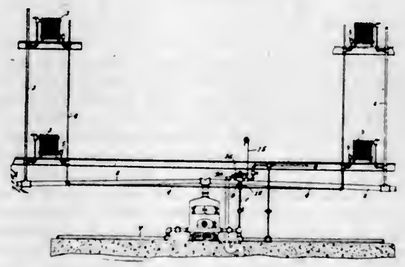
1. An elevating truck comprising a load supporting means, a steering mechanism including a tongue having an unlimited range of steering movement and pivotally mounted to swing vertically, interengaging means for elevating said load supporting means including a power multiplying lever fulcrumed upon a stationary pivotal support on said truck and connected to said load supporting means and located in a position in which it will not interfere with the free steering movement of said tongue and a coöperating member operable by the vertical swinging movement of the tongue to engage said power multiplying lever at different points whereby said load supporting means may be elevated step by step and means for locking said load supporting means at each step of elevation.

1,378,251. PISTON-RING. ROY A. LOVELL, San Francisco, Calif. Filed July 19, 1920. Serial No. 397,445. 1 Claim. (Cl. 74—109.)



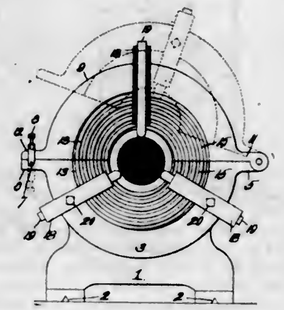
In a split piston ring, a sleeve having side walls and a bottom, adapted to extend across said split, indentations in the edges of the piston ring into which the side walls of the sleeve are adapted to fit, and pins on either side of said indentations passing through said side walls.

1,378,252. STEAM-HEATING APPARATUS. BRYCE W. MCCLYMONT, Detroit, Mich., assignor to Penberthy Injector Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 27, 1918. Serial No. 264,410. 8 Claims. (Cl. 237—68.)



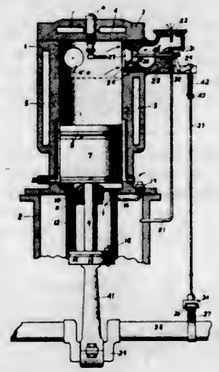
2. In a heating system, including a boiler and steam supply pipes and return passages including an air pipe and a branch pipe communicating with the boiler below its water level, the combination of a vacuum pump having an exhausting chamber and ejector members arranged to induce a vacuum in such chamber, and a valve device above the water level of the boiler having a float chamber provided with upper and lower openings, said chamber communicating through said lower opening with said air pipe, and said valve device having a float and connected valve in said float chamber arranged to prevent the passage of water through said upper opening into said exhausting chamber, and a check valve arranged to prevent passage of air from said exhausting chamber into said float chamber.

1,378,253. MULTIPLE-JAW-SETTING ATTACHMENT FOR STEADY-RESTS FOR LATHES. WILLIAM S. MCCONNELL and WILLIAM E. MCCONNELL, Kansas City, Kans. Filed Nov. 28, 1919. Serial No. 341,223. 1 Claim. (Cl. 82—39.)



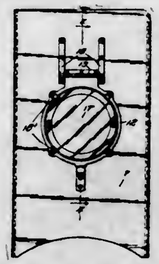
A steady rest for lathes, comprising a portion for support on the lathe frame, provided with a semi-circular member having its inner side facing upward and circumferentially channeled between its side faces, a semi-circular member superimposed upon and inverted with respect to and of the same size as the first-named member and provided with an inner circumferential channel registering at its ends with the channel of the first-named member; said members having radial hollow guides in proximity to one face of said members, a sectional wheel fitting within said semi-circular members and provided with a circumferential rib engaging said circumferential channels, and provided on its face in proximity to said guides, with a scroll, rack-bars fitting slidingly in said radial guides and inter-meshing with said scroll, and means for securing said ring in fixed relation as regards its upper member, to said inverted member; said semi-circular members being hinged together and detachably clamped together respectively, at diametrically opposite points.

1,378,254. INTERNAL-COMBUSTION ENGINE. JACK B. MACDONALD, Oakland, Calif. Filed Jan. 25, 1918, Serial No. 213,735. Renewed Nov. 8, 1920. Serial No. 422,689. 3 Claims. (Cl. 60—30.)



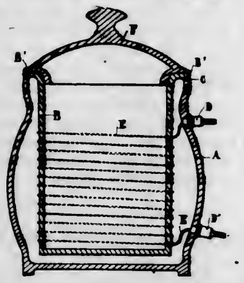
3. In an internal combustion engine, the combination with the exhaust pipe and exhaust valve thereof, of means actuated by the engine for supplying cold air during the operation of the engine, a connection from said means for directing streams of air from said supply into the pipe, a passage from said connection for directing streams of air from said supply upon the valve, said passage being controlled by the position of the valve.

1,378,255. HELMET. ROBERT MALCOM, Chicago, Ill. Filed Feb. 24, 1919. Serial No. 278,629. 6 Claims. (Cl. 2—117.)



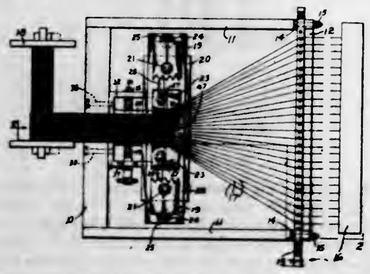
1. A helmet or head protector comprising a shell or casing, shaped to fit around the head and contact with the shoulders of the wearer, said casing having an opening therein in front of the eyes of the wearer, a lens-holding frame secured to said casing around said opening, a transparent member held therein, a frame surrounding said lens-holding frame and movably secured to said casing, and a transparent member removably secured to said last named frame.

1,378,256. ELECTRICAL HEATING APPARATUS. MAURICE RENÉ MALHOMME, Paris, France, assignor to Jacques Poberejsky, Paris, France. Filed June 30, 1920. Serial No. 393,052. 2 Claims. (Cl. 219—44.)



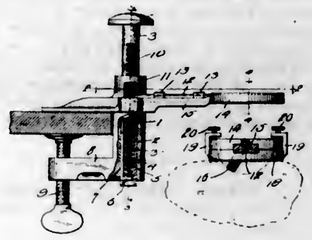
1. An electric heater, comprising nested inner and outer receptacles of ceramic material, and an interposed resistance element wound around the inner receptacle; said receptacles having an hermetic seal between their upper edges, and the inner receptacle having both its side and its bottom walls spaced from those of the outer receptacle to form a dead-air chamber which extends entirely around and beneath the said inner receptacle.

1,378,257. ATTACHMENT FOR WARPING-MACHINES. WILLIAM J. MALONEY, Ansonia, Conn. Filed June 8, 1920. Serial No. 387,284. 14 Claims. (Cl. 28—14.)



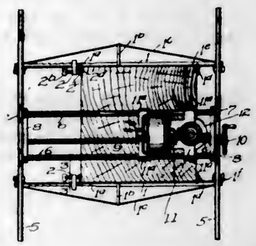
3. In a warping machine, the combination with a reciprocable trevis, thread guiding means carried thereby, and a reed carried by the trevis.

1,378,258. DEVICE FOR CUTTING EYES OUT OF LARGE POTATOES FOR SEED. ROBERT J. MANDERFIELD, Hancock, Mich. Filed Oct. 7, 1920. Serial No. 415,319. 7 Claims. (Cl. 146—6.)



1. In a seed potato cutter, the combination of a frame including means for adjustably clamping same to a table, a plunger slidably mounted in said frame, said plunger having a knob for depressing the plunger conveniently, and having a rack portion, a knife supporting arm extending horizontally from the frame and terminating in a ring, a semi-circular knife pivotally mounted on said ring, a knife arm rotatably mounted on the knife supporting arm and affixed to one end of the knife, a pinion segment mounted on the other end of the knife arm and meshing with the rack portion of the plunger.

1,378,259. SURFACING-MACHINE. ALLEN P. MEAKER and IRA F. BAKER, San Diego, Calif. Filed Aug. 4, 1919. Serial No. 315,066. 2 Claims. (Cl. 144—2.)

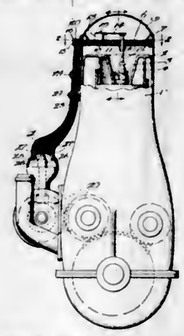


1. A device of the class described, including a pair of truss members, each provided with a block engaging member near one end and with a clamp screw spaced therefrom and adjustable thereon for clamping said truss members to said block, a pair of track members disposed at right angles thereto and adjustably supported thereon provided with beveled upper edges, a carriage provided with flanged wheels conforming to the upper edges of said track members mounted on said tracks and movable thereon, a support shiftable longitudinally on said carriage, a vertical shaft journaled in said support, a cutter secured to the lower end of said shaft and means mounted on said support connecting with said shaft for revolving said shaft.

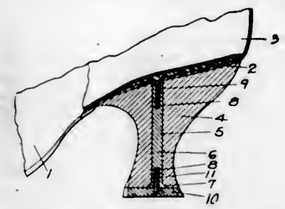
1,378,260. INTERNAL-COMBUSTION ENGINE. LLOYD L. MELTON, Chicago, Ill. Filed Aug. 21, 1919. Serial No. 318,938. Renewed Oct. 6, 1920. Serial No. 415,216. 8 Claims. (Cl. 123—143.)

1. An internal combustion engine having a plurality of cylinders each provided with a spark plug, in combination with a hood; current conducting means within the hood for including the spark plugs in circuit; a mounting for the current conducting means which extends through an opening provided in the hood; switching parts, one for each engine cylinder, carried by said mounting upon the exterior of the hood and connected with the aforesaid current conducting means; conductors upon the exterior

of the engine, one individual to each engine cylinder, for connecting the spark plug thereof with a source of current and terminating, adjacent the aforesaid switching parts, in other switching parts, the first aforesaid switching parts being disposed to be engageable by the closure of the hood with the second aforesaid switching parts; a timer provided with a casing having a cap portion at which the conductors upon the exterior of the engine terminates in timer contacts; and a body of insulating material connected with said cap portion and holding said conductors and the switching parts in which these conductors terminate in substantially fixed relation.

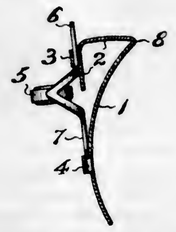


1,378,261. HEEL FOR SHOES. HERMAN R. MENCARELLI, Grand Rapids, Mich., assignor of one-half to Leo J. O'Riley, Grand Rapids, Mich. Filed Oct. 11, 1920. Serial No. 416,304. 2 Claims. (Cl. 36—42.)



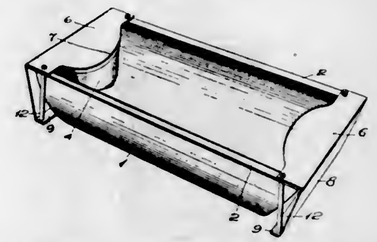
2. The combination of a wooden heel, a metal dowel of non-circular cross section extending from top to bottom of the heel and provided with a countersunk head at its lower end, said dowel having a threaded longitudinal bore at its upper end adapted to receive an attaching screw, a wear lift for the bottom of said heel, and an attaching screw for said lift threaded into the lower end of said dowel.

1,378,262. CARD-MOUNT FOR ARTICLES OF MERCHANDISE. WILLIAM H. MEYER, Brooklyn, N. Y. Filed Jan. 14, 1920. Serial No. 351,289. 3 Claims. (Cl. 211—34.)



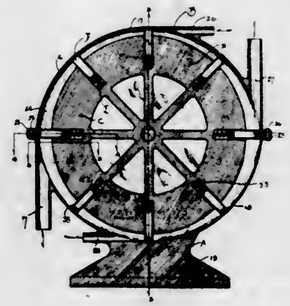
1. A card mount for articles of merchandise comprising a flat main body, said main body having a foldable portion adapted to extend in a parallel plane partially across the face of said main body when in normal folded position, means on said main body to engage one end of an article to be mounted, and means on said foldable portion to engage the opposite end of said article, said latter being engageable with said article by moving said foldable portion into normal folded position.

1,378,263. HOG-TROUGH. HARRY E. MILLER and JOHN H. JAYNE, Monmouth, Ill. Filed May 18, 1917. Serial No. 169,399. 10 Claims. (Cl. 119—61.)



1. A trough, comprising a body portion formed from a single sheet of metal bent to provide a horizontally disposed channel portion and end walls, said end walls being inwardly convex substantially throughout their width and being substantially perpendicular to the bottom of the trough and vertical when the trough is in normal position, and end plates each having a top portion extending over the adjacent curved end wall and downwardly extending support rigidly braced with relation to said body portion.

1,378,264. MOTOR. CARL C. MOON, Westboro, Ohio. Filed Dec. 11, 1919. Serial No. 344,057. 6 Claims. (Cl. 253—56.)



1. In a rotary engine, a casing, a rotor mounted in the casing, the rotor having a plurality of equi-distantly spaced inwardly extending slots formed therein, a blade rotatably and slidably mounted in each one of the slots, and inlet and exhaust ports formed in the casing.

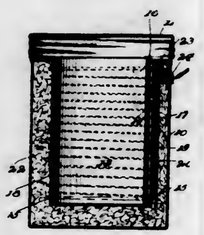
1,378,265. LIFTING-JACK. JOHN A. MURNIN, Columbus, Ohio. Filed July 15, 1920. Serial No. 396,548. 7 Claims. (Cl. 254—86.)



1. A permanent jack equipment for vehicles having wheel axles, which consists of a series of jacks clamped

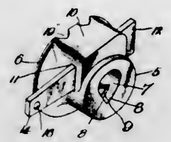
on the axles adjacent to opposite sides of the vehicle and having actuating shafts, a source of power, and actuating connections between the source of power and the jack shafts including manually actuated means controlling the direction of rotation of the jack shafts and arranged to yield when the latter reach their limits of movement.

1,378,266. PORTABLE ELECTRIC VAPORIZER. HENRY NAGEL, Davenport, Iowa. Filed Apr. 30, 1919. Serial No. 293,689. 2 Claims. (Cl. 219—44.)



1. A vaporizer including a shell, a container within the shell, a sheathing surrounding the container, binding members securing the sheathing upon the container, a resistance element wrapped about the sheathing and connected at its ends to said members, and a heat insulating packing surrounding the container within the shell.

1,378,267. ADJUSTABLE ROD-CLAMP. GEORGE F. NEWTON, Kansas City, Mo. Filed Mar. 21, 1918. Serial No. 223,854. 1 Claim. (Cl. 24—136.)



An adjustable rod clamp, comprising a tubular member to be fitted loosely on a rod, the sides of the lower portion of the passage of said member, converging downward to a point and each of said sides having a pair of V-shaped sharpened upwardly projecting transverse ribs, the ribs being ratchet-toothed shape in cross section and disposed with their abrupt faces facing outwardly, said member also having a transverse slot intersecting its passage and occurring in a plane between the planes of said ribs, and a wedge fitting in the said slot and having a downwardly and outwardly beveled lower edge for embedment in and transversely of the upper side of the said rod and for bowing the latter downward between the said ribs and embedding it on said ribs.

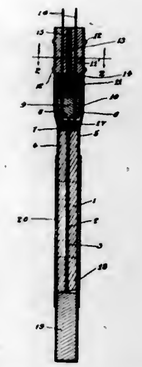
1,378,268. INSERTED PUMP FOR OIL-WELLS. THOMAS A. NORTHRUP, Washington, Pa. Filed July 17, 1919. Serial No. 311,430. 1 Claim. (Cl. 103—80.)

An inserted oil pump comprising a vertical pipe, means for securing the lower end of said pipe in a well tubing and sealing the tubing against escape of oil except through said pipe, an upwardly opening check valve on the upper end of said pipe, downwardly opening cups secured on said pipe, a working barrel slidable over said pipe, said check valve and said cups, an upwardly opening check valve and an openwork cage therefor on the upper end of said barrel to discharge oil from the barrel into the well tubing, and a guide carried by the lower end of said barrel and slidable on said pipe, said barrel having openings at the upper end of said guide permitting entrance of oil into the barrel between said guide and cups upon descent of said barrel, and serving to forcibly discharge such oil when the barrel ascends, whereby to wash all sand from



said barrel and to agitate the oil in the tubing to prevent accumulation of sand, the upward pressure of the oil against said cup serving to force the latter outwardly against the barrel.

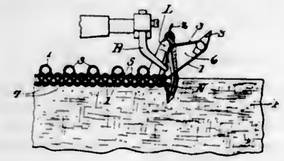
1,378,269. ELECTRIC BLASTING-CAP. ALBERT LESLIE OLIVER, Oakland, Calif., assignor to California Cap Company, Oakland, Calif., a Corporation. Filed Jan. 27, 1920. Serial No. 354,435. 3 Claims. (Cl. 102—10.)



1. The combination with a fuse, a tubular metallic shell member secured at one end thereto, an inflammable substance contained within said shell for igniting said fuse, a plug member for closing one end of said shell, one of said members being provided with a normally closed vent for permitting the escape of generated gases from within said shell and adapted for opening on the igniting of said inflammable substance, a filtering material within the shell intermediate the inflammable substance and said vent opening, and electric means extended into said inflammable substance for igniting the same.

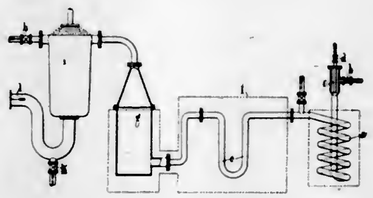
1,378,270. PICOT EDGING FOR FABRICS. LANSING ONDERDONK, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 20, 1916. Serial No. 92,454. 1 Claim. (Cl. 112—269.)

The combination of a fabric and a picot edging therefor, consisting of a needle thread formed into a series of loops extending through the fabric, a looper thread formed into a series of loops extending through the needle thread loops and over the edge of the fabric where said looper thread loops are entered by the needle loops prior to the



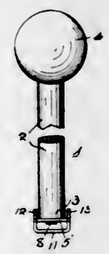
passing of the same through the fabric, one of said threads being formed into loops projecting laterally beyond the edge of the fabric, said last named loops being spaced two or more thread concatenations apart.

1,378,271. PROCESS FOR THE OXIDATION OF AMMONIA. JAMES RIDDICK PARTINGTON, London, England. Filed Oct. 10, 1919. Serial No. 329,878. 3 Claims. (Cl. 23—1.)



1. A process for the oxidation of ammonia which consists in forming a mixture of ammonia and steam in the presence of oxygen, preheating the mixture of ammonia steam and oxygen, and subsequently passing such mixture into contact with a heated catalyst.

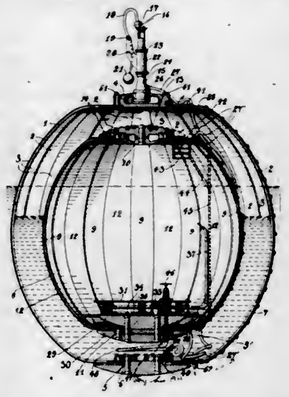
1,378,272. PERCUSSION-CAP DETONATOR. CHARLES F. PAULUS, East Orange, N. J. Filed Jan. 21, 1920. Serial No. 353,008. 2 Claims. (Cl. 46—46.)



1. A percussion-cap detonator comprising a main body, an anvil-plate fixed upon an end of said body, said plate being provided with oppositely located marginal projections, and a cap-receiving yoke, provided with right-angled wings having openings into and through which said projections extend for movably connecting said yoke with said anvil-plate.

1,378,273. LIFE-SAVING APPARATUS. GIOVANNI PICCO, New York, N. Y. Filed Aug. 23, 1920. Serial No. 405,238. 4 Claims. (Cl. 9—4.)

1. In a life saving apparatus, the combination of an inner and an outer vessel of substantially globular shape, said vessels made of collapsible sections with intervening waterproof connections, and adapted to be closed from without, an air duct secured to the outer vessel, a rotatably mounted valve associated with said duct, a counterweight connected with the valve and adapted to keep it normally open when said outer vessel is in upright position and to close it when the vessel is inclined, a flexible hose connecting said duct with the inner vessel for permitting the latter to roll within the outer vessel, a manhole provided in the outer vessel, a similar manhole provided on top of the inner vessel, a rounded top provided with anti-friction devices mounted at the upper end of the inner vessel, a weighted platform within and at the bottom of said inner vessel, a spring supported seat secured to said platform and having associated therewith a pumping mechanism for supplying air, a water valve operable from within the inner vessel and adapted to supply water into or drain it from the space between the vessels and a cock valve provided at and communicating with the outer vessel.

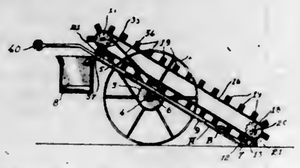


1,378,274. PROCESS OF FILTERING. JOHN P. PROBST, Marion, Ohio. Filed June 12, 1919. Serial No. 303,665. 3 Claims. (Cl. 210—134.)



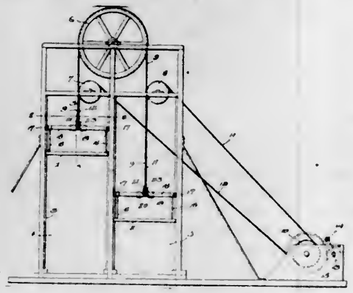
1. In the filtration of liquid, the herein described process consisting in causing the liquid delivered from a service pipe to be disrupted as it enters the filtering chamber by flowing through a perforated surface in the side wall of the casing in causing the liquid under pressure to filter through a plurality of integral layers of compressed sponges superimposed in the lower filter chamber to prevent currents of the liquid being formed therein and to effect primary filtration thereof, in causing the liquid to then filter through the material in an upper chamber arranged to prevent currents of the liquid therethrough and adapted to effect secondary filtration thereof and to cause said liquid to be a second time disrupted as it passes from said secondary filtration chamber by flowing over a perforated surface in the side wall of the casing.

1,378,275. NUT-GATHERER. FRANK RADEMACHER, Ontario, Calif. Filed Oct. 15, 1919. Serial No. 330,698. 2 Claims. (Cl. 56—328.)



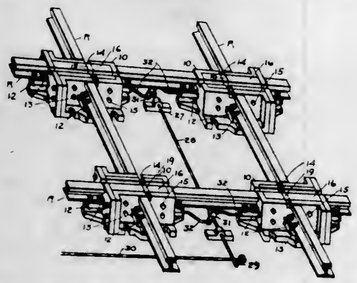
1. A machine for gathering nuts and like objects, including a wheeled support, an inclined apron mounted upon the wheeled support and formed with a foraminous sheet, an endless conveyer belt mounted parallel to the apron for coöperation therewith to engage the nuts and carry them upwardly on the apron, the foraminous sheet enabling foreign matter to be separated from the nuts as they are carried upwardly thereon, and a hopper receiving the nuts from the inclined apron.

1,378,276. COAL-TIPPLE. HORACE RAINEY, Fort Branch, Ind. Filed July 26, 1920. Serial No. 398,982. 4 Claims. (Cl. 187—71.)



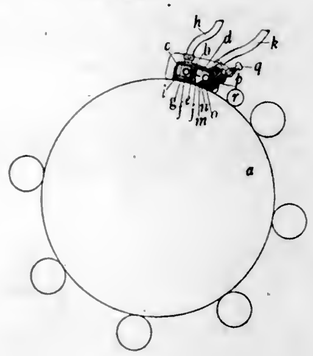
4. Hoisting apparatus of the character specified, including a pair of shafts, a car mounted to travel in each of the shafts, a guide pulley of a diameter corresponding with the distance between the centers of the shafts, a cable running freely over the pulley and connected at opposite ends to the cars which are suspended upon the cable and counter-balance one another, a hoisting pulley for each car, each hoisting pulley being disposed below and in the same plane with the guide pulley, hoisting cables engaging the respective guide pulleys and connected to the respective cars, and a hoisting drum having the hoisting cables reversely wound thereon.

1,378,277. CONTINUOUS-RAIL CROSSING. JAMES M. RIHN and WILLIAM RIHN, Louisville, Ky. Filed Mar. 5, 1921. Serial No. 449,816. 4 Claims. (Cl. 246—375.)



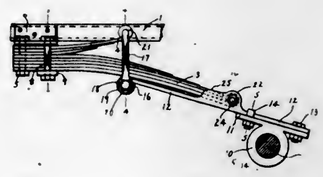
1. The combination with a pair of rails intersecting a second pair of rails; of blocks at the points of intersection each having intersecting grooves in its upper surface arranged to accommodate wheel flanges, each of said blocks having a pair of vertically disposed recesses opening upwardly into said grooves at the outer sides of the intersection, filler members slidable vertically in said recesses, and means to raise said filler members selectively to the level of the top of the rails.

1,378,278. TEXTILE AND LIKE PRINTING MACHINE. CHARLES ROBERTS, Manchester, England, assignor to The Calico Printers' Association Limited, Manchester, England. Filed May 19, 1920. Serial No. 382,593. 2 Claims. (Cl. 101—425.)



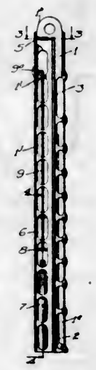
1. Means for cleansing the surface of proof covered bowls in printing machines consisting of the combination with a casing having a compartment therein formed by a longitudinal division piece with an extension, of a scraping device upon said extension engaging the bowl, means supplying liquid to said compartment, an outlet passage for the liquid extending across the compartment adjacent the bowl surface and in advance of the scraping device, a plate upon said casing engaging the bowl surface, a further compartment in said casing, means placing said compartment under vacuum, a communicating passage between said vacuum compartment and the surface of the bowl in part formed by said plate and at the rear side of the scraping device, a supplementary vacuum compartment or cavity at the rear side of said plate and a doctor engaging the bowl at the rear side of said compartment, as set forth.

1,378,279. SHOCK-ABSORBER FOR AUTOMOBILES. HENRY CULP ROBINSON, Beamsville, Ontario, Canada. Filed Apr. 17, 1920. Serial No. 374,703. 11 Claims. (Cl. 267—41.)



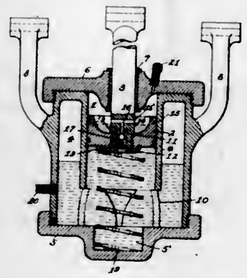
3. In an automobile, the combination with the axle, the frame and the ordinary springs of the automobile connected to the frame, of an opposed spring mounted upon the ordinary spring, a rigid member hingedly connected intermediately of its length to the free end of the ordinary spring, the rigid member being mounted at one end upon the axle, a link connecting the other end of the rigid member to the free end of the opposed spring and means for preventing lateral displacement of the springs.

1,378,280. GASOLENE MEASURING AND TESTING DEVICE. ALBERT ROGERS, San Diego, Calif. Filed Mar. 8, 1920. Serial No. 363,989. 4 Claims. (Cl. 73—120.)



1. A device of the class described, including a casing provided with an index and divided into thermometer and float compartments, the float compartments having a flexible side wall, and a latch member adapted to compress said side wall of the float compartment whereby said side wall engages the float for holding it in any position desired in said compartment.

1,378,281. RESILIENT DEVICE. EDWARD E. ROSS, Wilkinsburg, Pa. Filed Mar. 21, 1916. Serial No. 85,578. 8 Claims. (Cl. 267—64.)

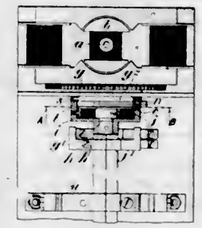


1. A resilient device comprising a cylinder, a piston operating therein, a chamber containing liquid upon which entrapped air acts, a check valve in said piston for controlling communication between the upper and lower faces of said piston, and ports of communication between said cylinder and said chamber so designed and located as to control recoil of the device by causing a variation of port opening with variation of piston travel.

1,378,282. [WITHDRAWN.]

1,378,283. MOTOR-DRIVEN QUICK-ACTION ELECTRIC SWITCH. FRITZ SAUTER, Basel, Switzerland. Filed Dec. 10, 1919. Serial No. 343,897. 1 Claim. (Cl. 74—14.)

In a motor driven electric switch, the combination of an electric motor, a drive gearing connected thereto, a rotary switch shaft, a spring barrel connected with the latter, a radially movable check-arm, a rotary eccentric for the operation thereof, said barrel being provided with a side opening for said check-arm, a stop for the latter, and a coupling pin carried by said driving gearing, said barrel being provided with a long slot and said coupling pin being arranged within this slot so as to be inoperative

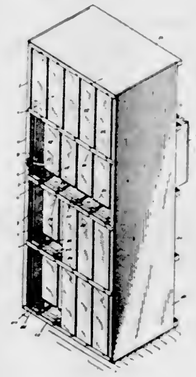


during normal working and to only become operative if the spring barrel should be unable to rotate the switch shaft, substantially as described.

1,378,284. PROCESS OF PREPARING A FERTILIZER. PAUL SCHMIDT, Altrahlstedt, near Hamburg, Germany, assignor to The Firm: Landwirtschaftliche Handelsgesellschaft M. B. H., Sudseehaus, Hamburg, Germany. Filed Apr. 20, 1920. Serial No. 375,280½. 1 Claim. (Cl. 71—9.)

The process of preparing a fertilizer containing magnesium hydroxid and lime which comprises treating lime with a pure solution of a salt of magnesium, and allowing the ingredients to react, substantially as and for the purpose set forth.

1,378,285. CABINET. MAURICE P. SCHWARTZ, Indianapolis, Ind. Filed Oct. 22, 1920. Serial No. 418,795. 8 Claims. (Cl. 45—94.)

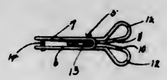


1. In a cabinet, the combination of a casing, a horizontal series of drawers mounted in said casing and having pins projecting vertically therefrom, a slidable bar mounted in said casing to slide transversely of the drawer movement, said bar being arranged to interlock with said pins to prevent or permit the withdrawal of drawers, and means operated by one of said drawers for moving said bar.

1,378,286. HOOK-AND-EYE FASTENER. NELL RILEY SCOTT, Albany, Oreg. Filed June 3, 1920. Serial No. 386,311. 3 Claims. (Cl. 24—228.)

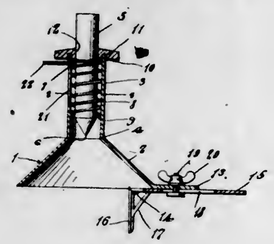
1. A garment fastener formed of one piece of wire and including two inner and two outer parallel bars, loops

formed at the junction of the inner bars with the outer bars, one of said outer bars having one of its end portions



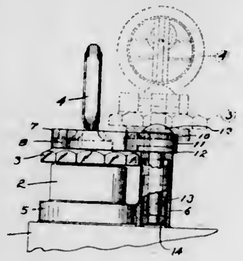
disposed upon the adjacent inner bar and extending transversely of the remaining bars.

1,378,287. CENTER FINDER AND PUNCH. JOHN SHAYLOR, Lindenwold, N. J. Filed Aug. 29, 1917. Serial No. 188,786. 1 Claim. (Cl. 33—191.)



A centering device of the character specified, comprising a punch having an outer annular flange, a tubular housing slidably receiving the punch and having an inner annular flange engaging the punch, and provided at its lower end with a flared guide member, a cap grooved in its lower side to receive the upper end of the housing and centrally apertured to receive the punch, and an expansion spring encompassing the punch and confined between the annular flanges of the housing and punch.

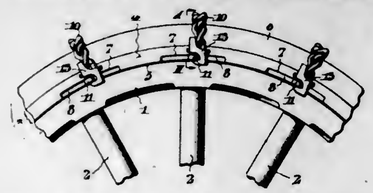
1,378,288. MOTOR-METER LOCK. MAX L. SHIRPSER, San Francisco, Calif. Filed Mar. 25, 1920. Serial No. 368,633. 2 Claims. (Cl. 220—33.)



1. A securing device for radiator caps comprising a hollow post, a ring connected therewith for permanently securing the post to a radiator outside the filling neck, a pair of arms adapted to be loosely connected with a radiator cap, and a pin for connecting the arms together and to said hollow post, the pin being secured permanently and slidable within said hollow post.

1,378,289. ANTISKID ATTACHMENT FOR VEHICLE-WHEELS. SAMUEL G. SILBERMAN, Philadelphia, Pa. Filed Sept. 4, 1920. Serial No. 408,209. 3 Claims. (Cl. 152—2.)

1. The combination of a retaining seat for a resilient vehicle tire having therethrough a transverse opening from side to side subjacent to the tire, and relatively shallow radially with reference thereto; a non-skid chain extending around and across the tire from one end of the



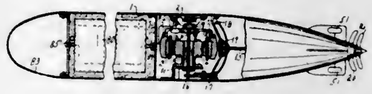
opening to the other; and a slim member extending through said transverse opening attached to said chain at one end and detachably connected thereto at its other end.

1,378,290. ADJUSTABLE TOOL-HOLDER. JOHN H. SMITH, Detroit, Mich., assignor to The Eclipse Interchangeable Counterbore Company, Detroit, Mich., a Corporation of Michigan. Filed May 2, 1919. Serial No. 294,309. 2 Claims. (Cl. 279—100.)



1. The combination with a socket member having its socket formed with cylindrical bearing portions of different diameters and an intermediate threaded portion, of a collet insertible in the socket member and having portions slidably engageable with the bearing portion of the socket, and an intermediate threaded portion engageable with the threads of the socket, and means for locking said collet in various positions of longitudinal adjustment.

1,378,291. DRIVING AND GOVERNING MEANS FOR TORPEDOES. ELMER A. SPERRY, Brooklyn, N. Y. Filed Apr. 2, 1915. Serial No. 18,861. 26 Claims. (Cl. 114—20.)

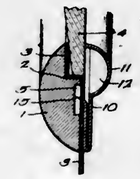


1. In an automobile torpedo, automatic control means for governing the depth at which the torpedo is driven, a motor for driving the torpedo and a common source of electric supply for said means and motor.

1,378,292. WINDOW. FREDERICK S. STAFFORD, Chicago, Ill., assignor to Henry G. Saal, Chicago, Ill. Filed June 16, 1919. Serial No. 304,444. 1 Claim. (Cl. 296—145.)

The combination with a sheet of flexible material having a window opening therein; of a light transmitting closure having its border overlapped by the border of said opening; a substantially rigid frame having an angular

recess bordering its inner edge in which the light transmitting closure is received and in which the inner edge of the flexible material is also received, this inner edge of the flexible material being interposed between the light transmitting closure and the rigid frame, said rigid frame also having a recess surrounding the aforesaid angular recess and in the face of the rigid frame that is engaged by the flexible material; a second frame, formed of spring material, and having its outer border portion



of U-shape in cross section, between which and the first frame the portions of the light transmitting closure and the sheet of flexible material which border the window opening are disposed, the part of the U-shaped border portion of the second frame that is next to the flexible material having prong formations which pass through the flexible material and into the recess in the rigid frame that surrounds the angular recess; and bolts clamping the border portion of the second frame to the first frame.

1,378,293. BED CONSTRUCTION. EDWARD J. STALDER, Chicago, Ill. Filed Dec. 15, 1919. Serial No. 344,795 1 Claim. (Cl. 5—4.)



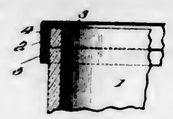
A bed of the character described, comprising a wire end frame and a wire foot frame, bracing wires for said frames and means for securing said wires to the frames, said means comprising castings mounted upon the frames and fashioned to receive the brace wires, said brace wires having V-shaped openings therein adapted to receive projections of the casting for positively uniting the brace wires to the said frames, a mattress frame comprising wire side and end parts, and castings for securing said parts together, a bracket supported by each of said head and foot frames, said bracket having an aperture therein and a portion of the material constituting the same projecting into the aperture and adapted to seat within a circular cutout portion in its support to maintain the bracket in position, the side wires of said mattress frame having their ends bent downwardly and arranged to enter openings in the brackets.

1,378,294. DISPENSING CARD-CASE. DAVID W. STEVENSON, Berkeley, Calif. Filed Oct. 13, 1919. Serial No. 330,478. 4 Claims. (Cl. 206—40.)



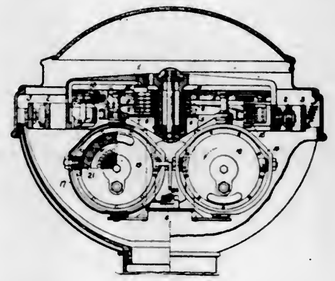
1. A dispensing card case comprising telescoping casings provided with a slot and inclined inner wall at one end thereof; a spring clip suitably secured within said casings for normally engaging and thereby dispensing cards singly therefrom when the casings are moved relatively to each other.

1,378,295. JAR-CLOSURE. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed June 27, 1919. Serial No. 307,056. 1 Claim. (Cl. 215—38.)



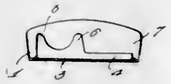
The combination with a glass jar having an outer smooth substantially vertical wall, of a metal closure therefor comprising a top portion, and a substantially vertical depending skirt connected to said top portion, the inner wall of said skirt being spaced from the outer wall of said glass jar, said skirt having an integral in-turned flange at its lower edge extending upwardly at an acute angle to the skirt with the upper edge thereof spaced from the inner wall of said skirt, the extreme inner diameter of said in-turned flange being slightly less than the exterior diameter of the glass jar, whereby said flange will yieldingly grip the vertical side wall of said glass jar and hold said closure on the jar.

1,378,296. ELECTRICAL DISTRIBUTION SYSTEM FOR GYROSCOPIC COMPASSES. HARRY L. TANNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 27, 1919. Serial No. 279,577. 12 Claims. (Cl. 33—204.)



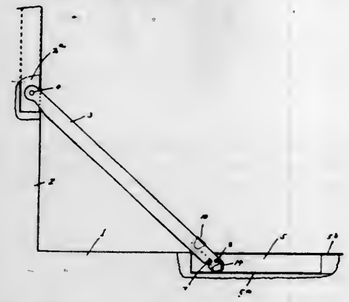
1. In combination, an electrically driven gyroscopic rotor, a system for supplying energy to said rotor, said system comprising a main source of supply, an auxiliary source of supply and means for automatically causing said auxiliary source to supply energy to the rotor on failure of the main supply.

1,378,297. DENTAL IMPRESSION-TRAY. FRANK W. WALLACE, Chattanooga, Tenn., assignor of one-half to Albert E. Doyle, Chattanooga, Tenn. Filed Jan. 20, 1921. Serial No. 438,734. 3 Claims. (Cl. 32—6.)



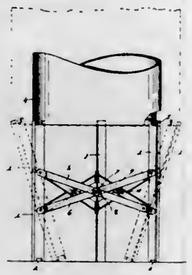
1. A dental impression tray having an upstanding flange provided on its upper edge with a vertical lug in the same plane with said flange and of slightly less height than the side walls of the tray.

1,378,298. SUPPORTING-BRACE FOR COVERS. THOMAS A. WATTS, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 10, 1921. Serial No. 436,264. 4 Claims. (Cl. 217—60.)



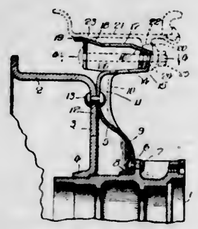
1. In a structure of the character described, the combination, with a body and a cover, of a brace pivotally connected to the cover and having its lower end extended into a pocket in the body, the lower end of the brace having a recess, a projection in said pocket to engage said recess, and a cam lever pivoted to the lower end of said brace to engage said projection to lift the brace therefrom.

1,378,299. RANGE-BOILER STAND. DANIEL D. WESSELS, Detroit, Mich. Filed Aug. 13, 1920. Serial No. 403,247. 7 Claims. (Cl. 248—41.)



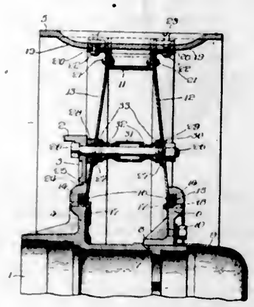
2. The combination with a plurality of legs, of pairs of bars crossing each other and pivotally connected at their opposite ends to said legs, said bars having longitudinally-extending elongated apertures therein at their intersecting points, and securing means extending through said apertures.

1,378,300. PRESSED-PLATE WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 336,813. 10 Claims. (Cl. 301—6.)



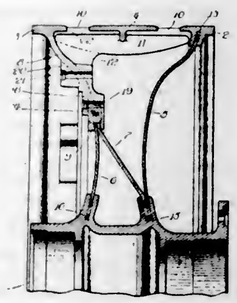
1. In a plate wheel, a brake drum supported on the hub and held in this position by a plate web secured to the hub, extending in a bracing direction and connected to the outer zone of the brake drum whereby the drum and the web mutually strengthen each other and with the hub form the main supporting body of the wheel.

1,378,301. PLATE DISK WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,578. 9 Claims. (Cl. 301—63.)



1. In a wheel of the class described, the combination with a flange fixed to the hub and a pressed on flange on the hub, these flanges being provided with annular grooves that face each other when the flanges are assembled on the hub, of two disks secured to these flanges by being engaged in the annular grooves thereof and of locking rings pressed into the grooves.

1,378,302. CAST-RIM DISK WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,353. 4 Claims. (Cl. 301—63.)

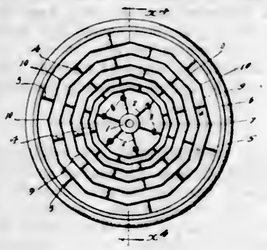


1. In a disk wheel, two outwardly divergent rolled metal wheel disks centrally connected by a cast-on hub holding the central margins widely separated and having their outer and more widely separated margins held in the marginal portions, respectively, of a broad-tread cast-on rim.

1,378,303. VEHICLE-WHEEL. JEREMY C. WILLMON, Los Angeles, Calif. Filed Apr. 22, 1919. Serial No. 291,912. 1 Claim. (Cl. 152—28.)

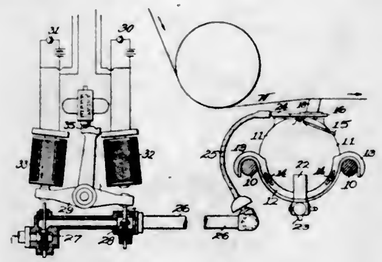
A vehicle wheel comprising a hub, a rim, concentric polygonal rings positioned between the hub and rim with their sides and angled corners relatively radially alined,

spokes connecting the hub to the innermost ring, spokes connecting the rim to the outermost ring, and spokes con-



necting the rings to one another, the spokes connecting with the middle portion of the polygon sides of the rings and arranged in staggered relation one to another.

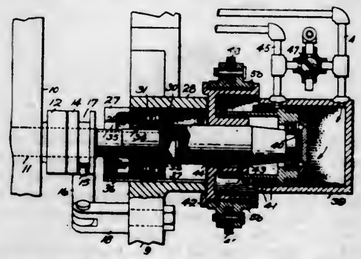
1,378,304. PASTING DEVICE FOR WEB-PRESSES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Apr. 9, 1915, Serial No. 20,348. Renewed Oct. 8, 1920. Serial No. 415,677. 10 Claims. (Cl. 91—12.)



1. A nozzle for the purpose described, having a plurality of small perforations arranged in a row, and a single shallow wider slanting channel extending transversely from the row of perforations.

2. The combination with a web press, of means for extruding a stream of plastic paste against the surface of the web during the travel of the web, and means for automatically stopping the stream of paste when the press is stopped.

1,378,305. WEB-ROLL TENSION AND SUPPORTING DEVICE. HENRY A. WISE WOOD, New York, N. Y., and CONRAD NORDFORS, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 18, 1914, Serial No. 877,873. Renewed Oct. 28, 1920. Serial No. 420,318. 23 Claims. (Cl. 242—75.)



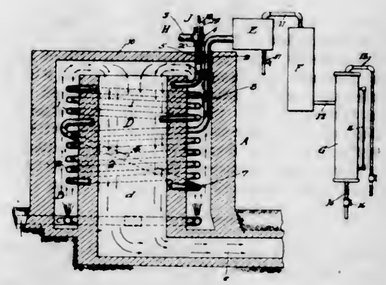
1. The combination with a printing press frame having a runway for a web roll spindle and having bearings adjacent thereto, of a member rotatably mounted in said bearings and detachably connected with the spindle for supporting the end thereof, a tension controlling device for said spindle and member mounted on the frame, and means for moving said member axially, said member being adapted to be connected with the spindle for rotating it.

1,378,306. DENTAL APPLIANCE. JACOB LOWE YOUNG, New Rochelle, N. Y. Filed July 13, 1920. Serial No. 395,835. 11 Claims. (Cl. 32—10.)



1. A dental appliance comprising three lever members pivotally connected to swing about a common axis, each of two of said members having a gripping jaw at one end thereof and the other member being provided with a slot open at one end, said slot being located adjacent the jaws on the other members when the three adjacent ends of the members are in close juxtaposition.

1,378,307. APPARATUS FOR CRACKING AND REFINING PETROLEUM PRODUCTS. WILLIAM HERBERT YOUNG, Los Angeles, Calif. Filed Nov. 5, 1917, Serial No. 200,389. Renewed Jan. 10, 1921. Serial No. 436,402. 8 Claims. (Cl. 196—14.)

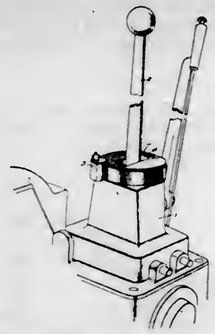


1. In improvements of the character disclosed, a furnace having a fire box, a pair of superposed coils arranged within the fire box and burner under the superposed coils, means for feeding petroleum and steam to the upper coil, an outlet for the lower coil, and connecting means between the upper and lower coils, the coils and connecting means being arranged so that the oil will course downwardly through the upper coil at a moderate heat and then be directed to the bottom of the lower coil where it is intensely heated, after which it courses upwardly through the lower coil.

1,378,308. LOCK FOR MOTOR-VEHICLES. JAMES R. ADAMS, Roanoke, Va. Filed Apr. 3, 1920. Serial No. 371,077. 3 Claims. (Cl. 70—127.)

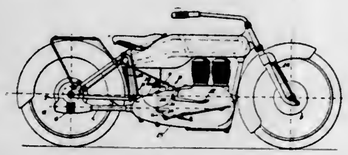
2. A locking device for motor vehicles comprising a cap rotatably mounted on the gear shift lever, said cap being provided with an elongated slot, a stationary plate ar-

ranged within said cap, means for locking said cap to said plate, said plate and said cap being provided with register-



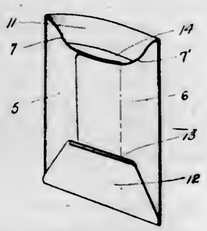
ing grooves, and locking means arranged in said grooves to prevent removal of said cap.

1,378,309. ARRANGEMENT OR GROUPING OF THE PARTS OF THE TRANSMISSION-GEAR IN MOTOR-CYCLES AND GEAR-CASE THEREFOR. FELIX AMIOT, Colombes, France. Filed Feb. 14, 1920. Serial No. 358,611. 1 Claim. (Cl. 180—33.)



A motor cycle, in which the parts serving for the mechanical transmission of the driving power are arranged in a line suitably offset relatively to the axis of symmetry passing thruogh the diametrical plane of the wheels, and a single gear case of externally regular shape relatively to the symmetry axis wherein said tranamission parts are disposed, said gear-case being provided with a cover having the form of a spherical cap with a circular joint so as to allow a tight closure of the said cover to be effected by the clamping action of the fastening bolts.

1,378,310. SANITARY DRINKING-CUP. MELVILLE B. BAIRD and GEORGE A. WALLS, Kansas City, Mo.; said Walls assignor, by mesne assignments, of his right to J. C. W. Bland, Tulsa, Okla. Filed Dec. 26, 1919. Serial No. 347,312. 3 Claims. (Cl. 229—53.)



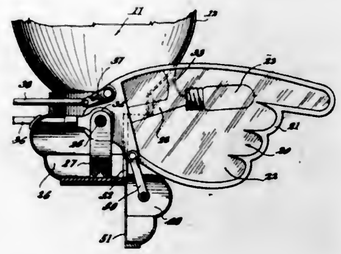
1. A drinking cup blank comprising a rectangular body portion, side flaps on the body portion having cutout, curved portions at one end of each and each flap having an inclined extension folded back upon the main flaps to form parts of a bottom for said cup, a flap at one end of the blank, foldable back upon the blank to form a reinforcing lip-engaging edge, and a flap at the other end of the blank foldable over the side flaps and over the bent-up ends thereof, the last named flap having adhesive material over the major portion thereof with an end strip devoid of adhesive material whereby the end in the finished cup may be curled outwardly to form an engaging portion.

1,378,311. DETERGENT. CLINTON CURTIS BAKER, Ottawa, Ontario, Canada, assignor of one-half to Thomas Lytton Bonsall, Ottawa, Ontario, Canada. Filed July 30, 1919. Serial No. 314,268. 1 Claim. (Cl. 87—5.)

A cleanser comprising a soft saponaceous paste, formed from the following ingredients in the proportions stated:

Grease	5½ lbs.
Water	4 gals.
Lye	1 lb.
Saw-dust	3 lbs.
Coal-oil	½ pint.
Perfume	½ oz.

1,378,312. VEHICLE-SIGNAL. VAN ROY BARNES, Urbana, Ill. Filed Jan. 22, 1920. Serial No. 353,146. 7 Claims. (Cl. 116—54.)



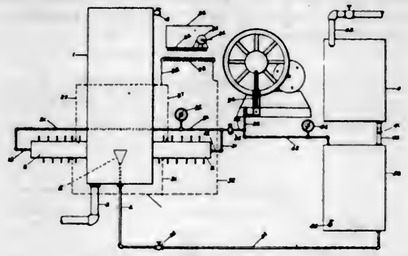
1. In a vehicle signal, the combination with a vehicle dash lamp including a casing, of a signaling semaphore pivotally carried thereby and housed within the lamp casing when in a non-signaling position, the normal outer edge of said semaphore shaped to merge into the outline of the lamp casing and form a part thereof when the semaphore is in a non-signaling position, means connected to the semaphore for moving it into a horizontal signaling position, a portion of the lower part of the lamp casing being movable relative to the casing, and means connecting said movable portion and said semaphore whereby the movable portion will be moved synchronously with movement of the semaphore.

1,378,313. TIRE CONSTRUCTION. WILLIAM F. BEASLEY, Plymouth, N. C. Filed Feb. 23, 1915. Serial No. 10,100. Renewed September 13, 1920. Serial No. 410,011. 1 Claim. (Cl. 152—1.)



In a device of the class described, the combination with the base, of a rubber arch and a casing over said arch secured in place on said base, and means within said arch for supporting it and preventing breaking down when it has been compressed a predetermined amount by peripheral pressure, said means comprising normally separated projections rigidly secured to the inner wall of the arch and adapted to engage each other when the arch is compressed.

1,378,314. APPARATUS FOR TREATING LIQUIDS. FREDERICK N. BEYER and JOHN H. LOUNGE, Chicago, Ill. Filed May 28, 1918. Serial No. 237,103. 5 Claims. (Cl. 99—2.)



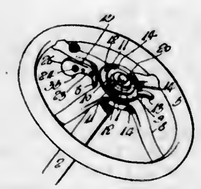
1. An apparatus of the kind described comprising the combination of a container provided with a fluid inlet, an outlet and an inlet independent of said fluid inlet for the admission of a preserving vapor, a tank connected with said fluid inlet, means on the interior of said container for spraying the liquid admitted through said fluid inlet from the tank and producing a mist, a second tank connected with said first mentioned tank, a feed pipe connected with said second tank, means for producing ozone in said container, and means for discharging the contents of the first tank into said container.

1,378,315. TIRE-CORE. WALTER A. BLACK, Rocky Ford, Colo. Filed Sept. 13, 1919. Serial No. 324,171. 5 Claims. (Cl. 152—5.)



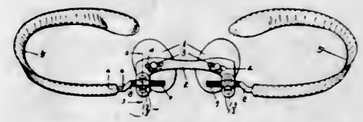
5. A core of resilient material containing a series of spaced recesses in each side portion thereof open to the side and extending inwardly to a central mass of material extending continuously and uninterruptedly around the core and from its inner to its outer sides, each recess of each series having an indentation in its inner wall extending into said central mass and the surface of said wall being disposed in reverse curves extending to the indentation whereby the wall surface on each side of the indentation is pressed together under compression action on the core and resistance to compression increased.

1,378,316. REMOVABLE STEERING-WHEEL FOR AUTOMOBILES. CLINTON R. BLOOD, Sturgeon Bay, Wis. Filed Apr. 26, 1920. Serial No. 376,745. 7 Claims. (Cl. 74—33.)



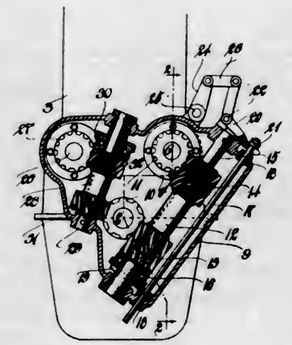
1. A steering wheel having a hub, a bracket having at one end a collar for connection with a steering post and for extending through the hub of the steering wheel, means to releasably lock the steering wheel upon the collar, and a stem carried by the bracket for universal movement and having connection with one of the spokes of the steering wheel to mount the steering wheel for vertical and horizontal swinging movement when released from the collar and swung upwardly clear of the post.

1,378,317. TRUSS. WALTER T. BOBO, Battle Creek, Mich., assignor to Battle Creek Appliance Co. Ltd., Battle Creek, Mich. Filed Aug. 7, 1919. Serial No. 315,887. 3 Claims. (Cl. 128—104.)



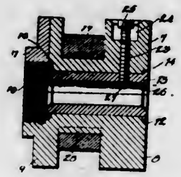
1. In a truss, the combination of a pad, a pair of curved spring body attaching members having horizontally and oppositely disposed serrated shanks, and a supporting bar on which said pad is mounted having downwardly projecting arms at its ends provided with serrated clips for adjustably securing the bar to said shanks, for the purpose specified.

1,378,318. TIMING MECHANISM. OSCAR Z. BREWER, Spokane, Wash. Filed Jan. 29, 1920. Serial No. 354,763. 2 Claims. (Cl. 123—90.)



1. The combination with the crank shaft and the exhaust valve operating shaft having driving and driven members thereon, a shiftable sleeve having geared connection with said members for the purpose described, an inclosing gear case, a fixed axle supporting the sleeve, a thrust bearing for the sleeve, and means for bodily shifting said bearing and sleeve.

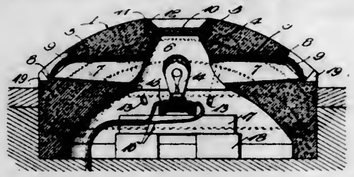
1,378,319. LATHE-CHUCK. HUGH A. BROOKS, Bainbridge, Ga. Filed June 12, 1919. Serial No. 303,534. 1 Claim. (Cl. 279—44.)



A chuck comprising a pair of semi-cylindrical sections having a center bore, said sections being provided with a

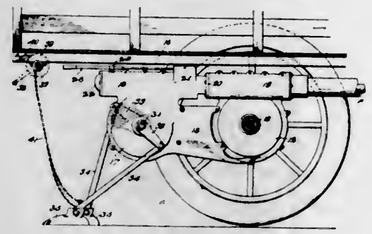
peripheral groove, a clamp arranged within the groove for detachably binding the sections of the chuck together and a face plate formed integrally with one of the sections of the chuck and extending past the end of the other section and having an axially arranged threaded bore substantially as described.

1,378,320. STREET-TRAFFIC SIGNAL. EDGAR BUCHANAN, Salina, Kans. Filed Oct. 7, 1920. Serial No. 415,236. 5 Claims. (Cl. 240—1.)



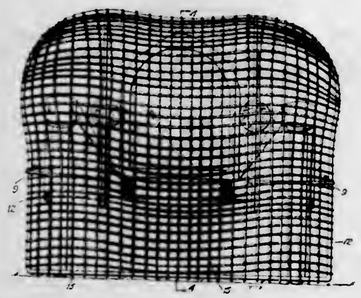
1. A street signal of the type set forth comprising a practically indestructible body including a chamber for containing illuminating means, and a plurality of horizontal radiating bores communicating with the chamber and adapted to distribute the rays of light, said bores being offset upwardly at their outer ends and lenses disposed in the offset portions of the bores.

1,378,321. PUSHING DEVICE FOR MOTOR-VEHICLES. FRITUFF CARLSON, Detroit, Mich. Filed June 24, 1919. Serial No. 306,440. 5 Claims. (Cl. 180—8.)



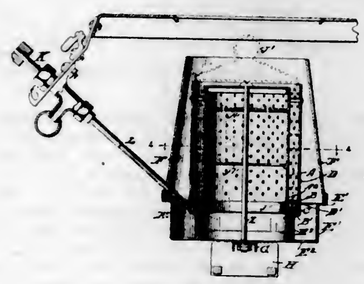
1. In a motor driven vehicle, the combination of a differential, a propeller shaft coupled at its rear end portion with the differential, a driven shaft extending in alinement with the propeller shaft at its rear end, said shafts being each mounted for rotation in a single plane, means for coupling said shafts, and reciprocable ground engaging means operable by the latter shaft for pushing the vehicle forwardly step by step.

1,378,322. AUTOMOBILE-FENDER. ALBERT CECKA, Minneapolis, Minn. Filed Oct. 13, 1920. Serial No. 416,715. 2 Claims. (Cl. 293—44.)



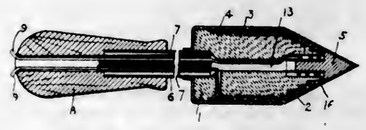
1. A fender for automobiles comprising a pair of supporting arms to be secured to the automobile axle, levers pivoted at their lower ends to the front ends of said arms and rising therefrom, an open frame carried by the upper ends of said levers and extending downwardly and forwardly therefrom, a body secured upon and covering said frame, and means for shifting the said levers connected therewith intermediate their ends and extending rearwardly therefrom.

1,378,323. HYDROCARBON-BURNER. NATHAN C. CHAPMAN, Detroit, Mich. Filed Aug. 18, 1919. Serial No. 318,103. 3 Claims. (Cl. 158—86.)



1. In a hydro-carbon burner, the combination of an inner perforated chimney consisting of superimposed sections of pipe, the lower section of the chimney being provided with an integral annular trough having a relatively low outer wall, to permit of ready access to the trough, said trough having an annular groove in its floor adjacent to its outer wall, an outer perforated chimney adapted to be supported upon the outer wall of the fuel trough, a wind guard consisting of an inner perforated flanged ring adapted to support the chimney and an outer flanged perforated ring having a perforated horizontal wall upon which the inner flanged ring is adapted to rest, a cone-shaped drum supported upon the outer flanged wall of the ring, and a valve controlled means for delivering liquid fuel to the trough.

1,378,324. ELECTRIC HEATER. CHARLES ALBERT CLARK and FRANK WELLS BLAIR, New York, N. Y. Filed May 24, 1920. Serial No. 383,802. 5 Claims. (Cl. 219—67.)

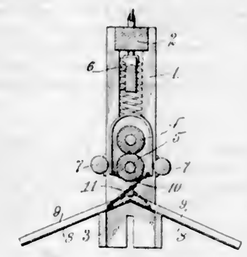


1. An electric heater, comprising an insulating core, carrying an electric heating member, covered by a relatively thin layer of insulating material, upon which is an electro-deposited metallic heat conducting covering.

1,378,325. CLOTHES-WRINGER. JAMES L. COFFIELD, Dayton, Ohio. Filed July 29, 1918. Serial No. 247,159. 2 Claims. (Cl. 68—32.)

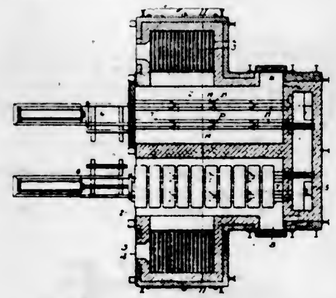
1. In a clothes wringer, the combination with the wringer rolls, of a drain-board and clothes guide rigidly mounted in the wringer frame below said rolls and extended a substantial distance on each side of the wringer frame to form a clothes guide, and a reversible water

shutter pivotally mounted between said drain-board and clothes guide and said rolls to direct the water to one



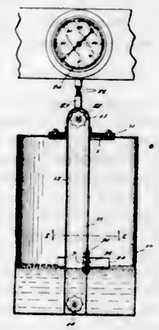
side of the said drain-board and clothes guide while the clothes are guided from the wringer on the other side to a receiving receptacle.

1,378,326. PAIR-HEATING FURNACE AND METHOD OF OPERATING THE SAME. THOMAS J. COSTELLO, Warren, Ohio. Filed Dec. 16, 1919. Serial No. 345,316. 12 Claims. (Cl. 263—6.)



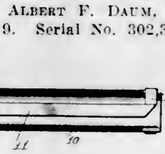
1. The herein described method of heating sheet or tin plate bars, which consists in piling separate bars flatwise in a plurality of packs extending transversely of a heating chamber, each pack containing a plurality of bars, and pushing said packs through said chamber while subject to the action of the heating medium therein, substantially as described.

1,378,327. LIQUID-LEVEL GAGE. CLAUDE E. COX, Chicago, Ill. Filed Jan. 26, 1920. Serial No. 354,024. 2 Claims. (Cl. 73—82.)



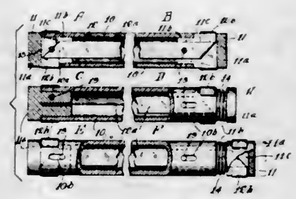
1. In a liquid gage, a housing projectable into a reservoir through an opening therein, float controlled means including a chain mounted in said housing, and a floatable member having dimensions less than the corresponding dimensions of the opening and having normal flotation dimensions one of which is greater than the maximum dimension of the said opening, said flotation member being pivotally connected to said chain, for the purpose set forth.

1,378,328. GUARD-RAIL CHAIR. WILLIE L. DAUGHTRY, Orlando, Fla. Filed Aug. 4, 1920. Serial No. 401,197. 1 Claim. (Cl. 238—20.)



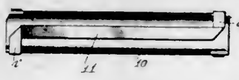
A device of the type described, including a rail guard chair comprising a base member having a neck-like constricted upward extension, said constricted upward extension being formed with laterally extended terminals, said terminals having their lower surfaces in right-lines thereby adapted to form with said base member upon each side of said constricted neck-like portion an undercut slot adapted to receive the facing base forming flanges of the track rail and the guard rail, said laterally extended terminals adapted to form an upwardly presented continuous concaved surface, the resultant terminals of which abut the track rail and guard rail along the web adjacent the tread and the web adjacent the base, respectively, all being in a continuous piece.

1,378,329. FUSE. ALBERT F. DAUM, Pittsburgh, Pa. Filed Dec. 10, 1918. Serial No. 266,057. 19 Claims. (Cl. 200—132.)



1. An inclosed fuse comprising a tubular casing of insulating material, end closures therefor, and a fusible element of strip form having its end portions exposed externally and circumferentially of the fuse and an intermediate portion traversing the interior of the casing in the direction of casing length.

1,378,330. FUSE. ALBERT F. DAUM, Pittsburgh, Pa. Filed June 7, 1919. Serial No. 302,370. 10 Claims. (Cl. 200—132.)



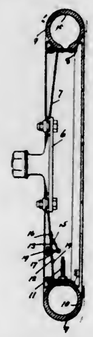
10. A refillable fuse comprising a tubular casing of insulating material, said casing having slits extending inwardly from its ends, a fusible element extending longitudinally of the interior of the casing and having its ends extending through said slits, and end caps having their skirts overlying the casing and having slits adapted to register with the casing slits for the passage of said element ends, the ends of the element extending circumferentially about and externally of the cap skirts.

1,378,331. AUTOMOBILE-TIRE. WILLIAM J. DAVIS and JAMES HAMMELL, Tipton, Ind. Filed Feb. 5, 1921. Serial No. 442,858. 3 Claims. (Cl. 152—10.)



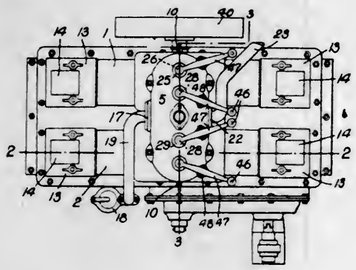
1. An automobile tire including a solid resilient body provided with a central circumferential air compartment, a duct leading into said compartment to permit the introduction of air thereinto, said body having a series of channels surrounding said compartment.

1,378,332. DISK WHEEL. EMIL R. DRAVER, Richmond, Ind. Original application filed Oct. 20, 1920, Serial No. 414,551. Divided and this application filed Feb. 7, 1921. Serial No. 442,975. 6 Claims. (Cl. 301—63.)



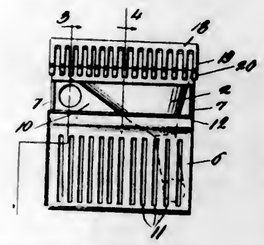
1. A disk wheel having in its disk a port through which the valve stem of an applied tire may be reached, a displaceable cover for said port mounted for outward opening movement, and an arm applied to the inner side of said disk, connected to said cover and normally holding the same in port-closing position.

1,378,333. INTERNAL-COMBUSTION ENGINE. EMILE DAEVET, Montreal, Quebec, Canda. Filed Mar. 24, 1920. Serial No. 368,399. 2 Claims. (Cl. 123—51.)



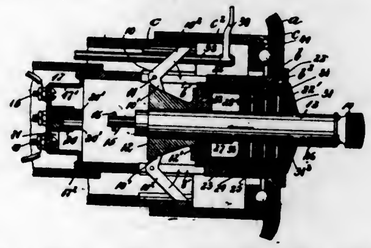
1. An internal combustion engine comprising a base; a horizontal cylinder having open ends mounted on said base; removable plates adapted to close said open ends; an opening on one side of said cylinder in which is secured a spark plug; a central opening in said cylinder; a head casing mounted on said cylinder; an inlet port in said head communicating with said central opening in said cylinder; an exhaust port in said head communicating with said central opening in said cylinder; a vertically operable valve in said inlet and said exhaust ports; pistons movably mounted in said cylinder adapted to operate in opposite directions; a crank shaft suitably journaled in said base; means to connect said pistons to said crank shaft; a cam-shaft mounted across said base; cam-members mounted on said shaft; means to actuate said shaft; and a vertical connecting rod connected to each of said valves; said connecting rods being adapted to contact with each of said cam-members; substantially as described.

1,378,334. OIL STRAINER AND SEDIMENT TRAP. GEORGE O. EBERHARDT, Kelliher, Minn., assignor of one-half to Joseph Jerome, Battle River, Minn. Filed Oct. 16, 1919. Serial No. 331,030. 5 Claims. (Cl. 210—149.)



1. In combination with an oil pipe, a housing surrounding the upper end of the pipe, said housing having an elongated opening formed therein, and a flexible tongue secured to the pipe and adapted to extend through the elongated opening.

1,378,335. KEYLESS LOCK FOR AUTOMOBILES. JOHN A. EDGERTON and HOWARD F. CALKINS, Newark, N. J. Filed Apr. 6, 1920. Serial No. 371,670. 7 Claims. (Cl. 70—127.)



6. In a motor vehicle, the combination with the steering wheel post, of an electric switch in extension of said post, a plunger slidably and rotatively borne in said post and capable in its extreme inner position to actuate said switch and locking means for locking said post operated by the longitudinal displacement of said plunger.

1,378,336. ART OF MAKING CATALYZERS. CARLETON ELLIS, Montclair, N. J. Filed Feb. 8, 1916. Serial No. 76,957. 9 Claims. (Cl. 23—28.)

1. The process of making catalytic material adapted for use in the hydrogenation of fatty oils which comprises incorporating an organic salt of nickel in an oily vehicle, in heating the mixture while under a pressure below atmospheric, and in removing at least the major portion of the organic radical.

2. The process of making catalytic material adapted for use in the hydrogenation of fatty oils which comprises heating an organic salt of nickel under reducing conditions and under a pressure below atmospheric, and in volatilizing at least a substantial portion of the organic radical.

3. In the preparation of catalysts, the step of subjecting a salt derived from a metal suitable for use as a hydrogenating catalyst and a somewhat volatile organic acid, while such salt is carried in a bath of oil, to heat while passing a current of hydrogen through said bath, and removing by heat at least a considerable portion of the liberated organic acid, while maintaining the pressure slightly below atmospheric.

4. A process of making a catalytic material adapted for the hydrogenation of fatty oils, which process comprises the step of heating a salt containing the radical of such an organic acid as is capable of being volatilized, combined with a metal which is itself capable of acting as a catalyst in the hydrogenation of fatty oils, under reducing conditions, and heating sufficiently to remove at least a material portion of the organic acid radical present in such salt, under pressure below atmospheric.

5. A process of making a catalytic material which comprises incorporating a salt derived from a somewhat volatile organic acid, and a metal having catalytic properties, while associated with an oily vehicle, and passing a current of hydrogen through said mass at a pressure materially below atmospheric.

1,378,337. CATALYZER AND METHOD OF PRODUCING SAME. CARLETON ELLIS, Montclair, N. J. Filed Nov. 24, 1916. Serial No. 133,252. 32 Claims. (Cl. 23—28.)

1. A catalyzer made by reducing nickel from nickel oleate dissolved in an oil or fat, by heating said material in the substantial absence of added reducing gases.

16. The herein described process which comprises heating a salt of a catalytic metal with an organic acid, to a decomposition temperature, while said salt is in an oily vehicle, in the substantial absence of added reducing gases, while under pressure below atmospheric and while passing an inert gas through said vehicle.

1,378,338. CATALYZER FOR OIL-HARDENING AND PROCESS OF MAKING. CARLETON ELLIS, Montclair, N. J. Filed Dec. 30, 1919. Serial No. 348,329. 5 Claims. (Cl. 23—28.)

1. A process of making a finely-divided, highly active mixed metal catalyst, which comprises reducing, while carried in an oily vehicle, a mixture of metallic salts of a plurality of the metals nickel, copper and cobalt.

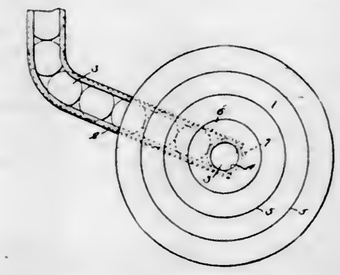
1,378,339. REAMER. ROBERT J. EMORY, Newark, N. J. Filed Apr. 15, 1919. Serial No. 290,205. 2 Claims. (Cl. 77—75.)



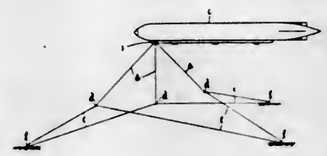
1. A tool designed to engage in a hole to machine the same, said tool including a shaft provided with a slot extending lengthwise thereof, a bearing strip fitted in said slot, said shaft and strip provided with recesses coacting to form a continuous peripheral groove, a retaining ring fitted in said groove for preventing relative lateral movement between the strip and shaft, and a set screw threaded diametrically through the shaft and engaging the strip to advance the same radially out of the slot.

1,378,340. TARGET. CLIFFORD J. FAIRCHILD, Chicago, Ill., assignor to Black Products Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1919. Serial No. 336,356. 3 Claims. (Cl. 124—15.)

1. In a device of the class described, a target body having an opening formed therein, a guideway for successively directing fragile targets into registration with said opening, said guideway being adapted to support a plurality of fragile disks in such manner that the breaking of the disk in said opening will permit an adjacent disk to move by gravity into said opening, the lower extremity of said guideway being open in the plane of the foremost disk for the discharge by gravity of the broken disk.



1,378,341. MOORING FOR AIRSHIPS AND THE LIKE. ROBERT ALEXANDER FRAZER and LEONARD FREDERICK GEORGE SIMMONS, Teddington, England. Filed Dec. 16, 1919. Serial No. 345,388. 8 Claims. (Cl. 244—2.)



1. A mooring system for airships and the like comprising a plurality of cables attached to the airship and freely movable over swiveling pulleys anchored at definite positions relatively to the ground substantially as described.

1,378,342. GATE FOR IRRIGATING-DITCHES. WILLIAM FREUDENBERG, Enterprise, Oreg. Filed May 20, 1920. Serial No. 383,007. 2 Claims. (Cl. 61—29.)



1. In a gate for irrigating ditches, a plate having an opening therein, means for guarding the opening, a splash board, means for pivotally connecting the splash board to the plate whereby it is swingingly mounted with relation to the opening, and means for holding the splash board in inoperative relation to the plate.

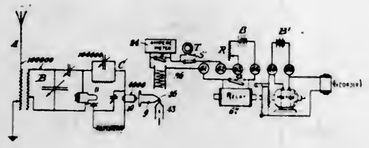
1,378,343. ARALKYL ESTER OF 2-PHENYLQUINOLIN-4-CARBOXYLIC ACID. ALFONS GAMS and OTTO KAISER, Basel, Switzerland, assignors to Societe of Chemical Industry in Basle, Basel, Switzerland. Filed June 23, 1920. Serial No. 391,166. 1 Claim. (Cl. 23—24.)

As a new article of manufacture, the herein described benzylester of 2-phenylquinolin-4-carboxylic acid, which forms citron-yellow crystals melting at 77 to 78° C., insoluble in water, moderately soluble in ether and readily soluble in oils and benzene and is capable of being employed for therapeutical purposes and has the properties of being tasteless and of being a better solvent for the uric acid than the hitherto known alkylesters and arylesters of 2-phenylquinolin-4-carboxylic acid.

1,378,344. METHOD FOR CLEANING PHONOGRAPH-RECORDS. EDWARD T. HAILS, Montgomery, Ala. Filed Feb. 4, 1920. Serial No. 356,319. 3 Claims. (Cl. 18—48.3.)

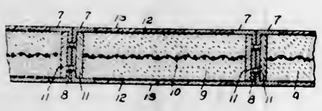
1. The method of resurfacing phonograph cylinders set forth consisting in first obliterating the record trace by wiping the record with a solvent such as kerosene and then wiping the record with a mixture of alcohol, ether and vinegar.

1,378,345. METHOD AND MEANS FOR TRANSLATING ENERGY VARIATIONS. RAY EDWIN HALL, Chicago, Ill., assignor to Hall Research Corporation, a Corporation of Delaware. Filed May 31, 1919. Serial No. 301,010. 61 Claims. (Cl. 250—8.)



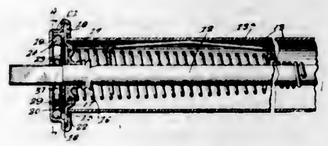
61. A wireless receiving system adapted to produce an electrical heterodyne of audible frequency, a receiver and an air column resonator tuned to the frequency of said electrical heterodyne and energized thereby, a sensitive cooling jet discharging across the mouth of said resonator, a hot wire coil surrounding the jet, a battery for heating said coil to high temperature, a floating zero relay in series in said battery circuit, a second battery and recorder in circuit with the switch of said relay.

1,378,346. OVEN-WALL CONSTRUCTION. FREDERICK C. HALLER, Pittsburgh, Pa. Filed Aug. 18, 1920. Serial No. 404,437. 7 Claims. (Cl. 107—62.)



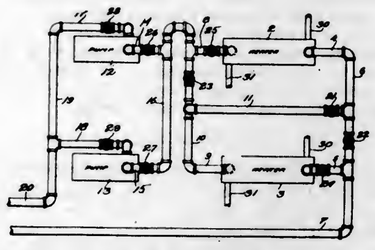
7. An oven having a frame composed of pairs of oppositely faced channel irons secured together, said channel irons having bottom and side portions, said pairs being spaced apart from each other, blocks of reinforced heat insulating material between said pairs of channel irons and held in place by them, said blocks being of slightly less length than the distance between the bottoms of the channel irons, a heat insulating packing between the ends of the blocks and the bottoms of the channel irons, and a surfacing of heat insulating material at each side of the blocks.

1,378,347. CURTAIN ROLLER AND BRACKET. FRANKLIN H. HART, New Haven, Conn., assignor to C. Cowles & Company, a Corporation of Connecticut. Filed Jan. 15, 1920. Serial No. 351,606. 7 Claims. (Cl. 156—36.)



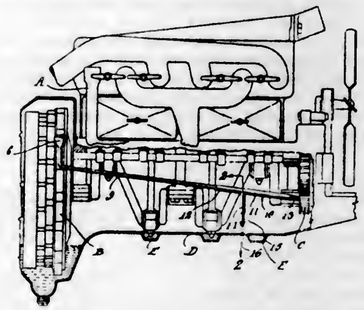
4. A curtain roller and bracket, consisting of a roller comprising a shaft and tube, anti-rattling springs attached to said tube and encircling said shaft, a pawl carried by said shaft and a ratchet wheel carried by said roller, and a bracket provided with means for yieldingly holding the roller, whereby all of the parts of said roller and bracket are maintained in fixed relation to each other so that positive engagement of the pawl and ratchet wheel is insured.

1,378,348. HOT-WATER HEATING SYSTEM. JOSEPH CHARLES HARTWELL, Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of New York. Filed Sept. 7, 1915. Serial No. 49,137. 8 Claims. (Cl. 257—1.)



2. In a hot water heating system arranged for the continuous circulation of water therein, the combination of a plurality of water heaters independently connected to the circulating system on the supply and return sides of the same, means for supplying heat to the several heaters independently of one another, a plurality of circulating pumps included in said system in parallel relation, and means for causing the circulating water to pass through the heaters either in series or in parallel relation.

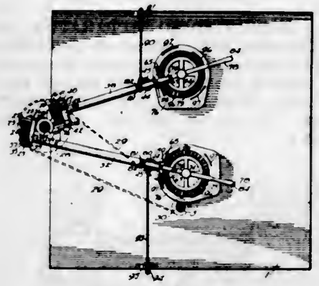
1,378,349. SAFETY DEVICE FOR OILING SYSTEMS OF MOTORS. EDWARD A. HEINLEIN and RAYMOND A. STOLLE, Los Angeles, Calif. Filed July 23, 1919. Serial No. 312,862. 6 Claims. (Cl. 184—11.)



5. The combination with the lubricating oil feed pipe for the timing gears of "Ford" motors, of a substantially

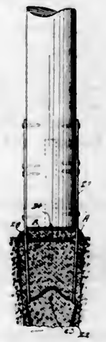
T-shaped pipe telescopically receiving one end of said lubricating oil feed pipe, a pipe telescopically connected to one branch of said T-shaped pipe, and a valve connected to said last named pipe and extending exteriorly of the motor, the end of said T-shaped pipe alining with the end which telescopically receives the feed pipe being reduced in diameter, said valve comprising a casing having an annular groove about the outer edge thereof adapted for connection with the supply hose of an air compressing pump.

1,378,350. ATTACHMENT FOR WOODWORKING-SHAPERS. WILLIAM A. HENN, Evansville, Ind., assignor of one-half to Michael D. Helfrich, Evansville, Ind. Filed July 29, 1920. Serial No. 399,865. 8 Claims. (Cl. 144—145.)



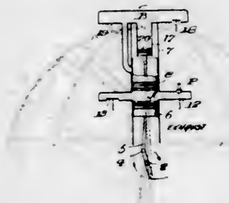
1. The combination with a woodworking shaper of a supporting member removably secured thereto, a shaft housing connected at one end with said supporting member for movement in both horizontal and vertical planes, and means carried by the shaft housing for maintaining the work in contact with the cutting blade and for moving the work to insure the shaping of the same as desired.

1,378,351. PLASTIC BASE FOR POLES. MILLARD F. HOYLE, Dallas, Tex. Filed Apr. 14, 1920. Serial No. 373,780. 3 Claims. (Cl. 72—84.)



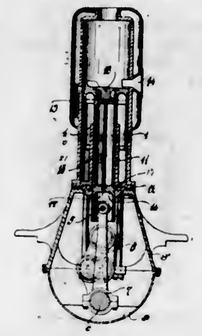
3. In a device of the character described, a plastic base, a reinforcing member formed of a single piece of wire bent so as to provide a foot member with upright members and a central upright member terminating short of the first upright members, threaded bars engaging the central portion of the reinforcing member other threaded bars crossing the first bars at right angle, upright fastening bars secured to the central portion of the member and the last named threaded bar, and other upright fastening bars removably secured to the other or first named threaded bars.

1,378,352. FOUR-CYCLE INTERNAL-COMBUSTION ENGINE. JOB HUTCHINSON, Brooklyn, N. Y. Filed Oct. 16, 1917. Serial No. 196,823. 15 Claims. (Cl. 123—51.)



1. A four cycle internal combustion engine including a cylinder having a compressor chamber at one end adapted to alternately communicate with a source of fuel supply and the atmosphere and a port in communication with said chamber, and oppositely working pistons within said cylinder, one of said pistons being adapted to alternately compress the gas and air contents of said chamber and uncover said port to release such compressed charge into the working chamber.

1,378,353. PISTON CONSTRUCTION. THOMAS A. HUTSELL, Spokane, Wash., assignor to The Hutsell Motor Company, Spokane, Wash. Filed Sept. 24, 1919. Serial No. 326,060. 3 Claims. (Cl. 74—108.)



1. The combination with the hollow piston head having a concentric, interior, hollow stem closed at its lower end, and a screw plug threaded in the head to close the upper end of the stem, an oil pipe within the stem to receive oil from the exterior of the stem, and said head, sleeve and plug having registering passages for distributing the oil from said pipe to the exterior of the head.

1,378,354. FOLDABLE UMBRELLA. AUGUSTA S. JOHNSON, Philadelphia, Pa. Filed Sept. 20, 1920. Serial No. 411,413. 3 Claims. (Cl. 135—20.)

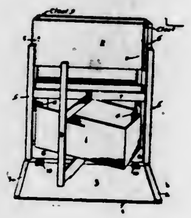
3. An umbrella comprising a tubular handle, a socket mounted to slide in said handle, means for locking said socket in its innermost or outermost position in the handle, a stem having its inner end seated in said socket, a runner mounted to slide on the stem, means for locking the runner in its outermost position on the stem, means for locking the runner in its innermost position on the stem, for the runner to be withdrawn into the handle when the socket is retracted therein, main ribs mounted to swing on the stem near the outer end thereof, auxiliary ribs mounted to slide on the main ribs, braces connected to the auxiliary ribs at their points of sliding connection

with the main ribs and having connection with said runner to be drawn therewith into the tubular handle when the socket is retracted therein and cords connected to the



extremities of the auxiliary ribs and adjustably connected to said braces for flexing said auxiliary ribs relative to the said main ribs.

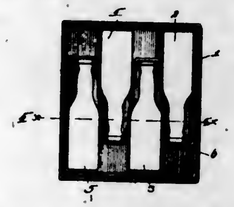
1,378,355. FOLDING TABLE AND LUNCH-CASE FOR AUTOMOBILES. PAUL V. KELLEY, Everett, Wash. Filed Aug. 31, 1920. Serial No. 407,187. 2 Claims. (Cl. 190—12.)



1. In an article of the character described, a casing, in combination, composed of a folding table consisting of a top, two leaves, and six legs; four legs being rigidly attached to a rectangular box frame, and two legs hingedly secured to same frame to support the leaves, said frame being invertedly secured to the under surface of the table top and said leaves hinged to the under side of the top along its longitudinal edges, so that when the table is inverted the top thereof becomes the bottom of said casing and the leaves are adapted to be raised vertically to serve as sides of the casing; and means for securing the leaves in said vertical position, and a supplemental rectangular box frame invertedly secured between the four legs intermediate the table top and the floor.

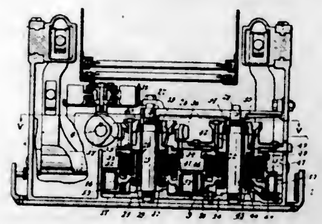
1,378,356. METHOD OF PACKING BOTTLES. MATHIAS R. KONDOLF, Rochester, N. Y., assignor to John Jacobs, Merion, Pa. Filed Oct. 27, 1917. Serial No. 198,851. 5 Claims. (Cl. 217—23.)

1. A packing which consists of a container, a row of articles placed therein, said articles being nested with each other and a serpentine strip, having its ends anchored, separating and spacing the said articles and adapted to be drawn close around the sides of said articles, said



strip being placed under tension by the insertion of the said articles in the package.

1,378,357. ROPE-WINDING APPARATUS. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Aug. 1, 1913, Serial No. 782,522. Divided and this application filed June 12, 1919. Serial No. 303,545. 10 Claims. (Cl. 254—166.)



1. In a winding mechanism, the combination with two adjacent stationary shafts, a rotatable sleeve upon each of the shafts, intermeshing gears fixed to said sleeves, means to rotate the gears, a rotatable rope winding drum upon each sleeve, and clutch mechanism arranged to optionally connect either of said drums with its respective sleeve.

1,378,358. MINING-MACHINE TRUCK. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Feb. 23, 1915, Serial No. 9,972. Renewed July 15, 1920, Serial No. 396,590. Divided and this application filed Nov. 15, 1919. Serial No. 338,205. 29 Claims. (Cl. 105—161.)



1. In a mining mechanism, a truck, a pan reciprocable thereon, and means for pivotally connecting said pan and truck when the front end of the pan is passed off from said truck.

1,378,359. MINING APPARATUS. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 23, 1915, Serial No. 9,972. Renewed July 15, 1920. Serial No. 396,590. 38 Claims. (Cl. 262—30.)

1. In a mining apparatus for forming a horizontal kerf in the face of the coal, the combination of a transporting truck element adapted to travel over mine tracks, a kerf cutting element having a cutting mechanism and power drive mechanism and adapted to rest in a predetermined position on the truck and to move off the truck and advance bodily along the coal face to cut a kerf at the floor



level, and an intermediate guiding element between the truck and cutting element movable transversely of and relatively to the truck and adapted to be engaged with the cutting element at any of several positions along the coal face to guide said element from any of said positions to the predetermined position on the truck.

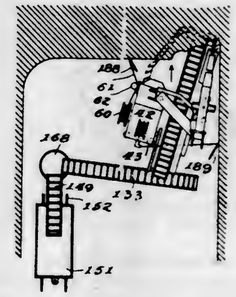
1,378,360. MINING AND LOADING MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 1, 1913, Serial No. 782,522. Renewed July 17, 1920. Serial No. 397,155. 22 Claims. (Cl. 262—9.)



1. In a machine for cutting, breaking down and loading coal, the combination of a bed frame, a carriage movable forward and backward on the bed frame, a horizontal kerf cutting mechanism mounted on the carriage, two vertical shear cutting mechanisms mounted on the carriage and arranged to cut vertical kerfs disposed adjacent the sides of the horizontal kerf and terminating at their inner ends in vertical lines, an endless carrier on the carriage arranged to extend into the horizontal kerf and adapted to continuously move to and from points near the front sides of the horizontal kerf cutting mechanism, means for breaking the coal directly down upon the conveyer, said means comprising adjustably mounted reciprocating pick devices adapted to attack the coal between the vertical cutters at a transverse vertical plane near the inner ends of said vertical cutters, means for advancing and retracting the carriage on the bed frame, and means for moving the machine laterally when the carriage is retracted.

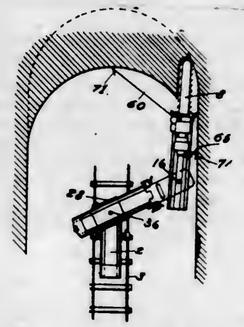
1,378,361. MINING AND LOADING MECHANISM. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 7, 1915, Serial No. 19,746. Renewed July 31, 1920. Serial No. 400,546. 10 Claims. (Cl. 262—9.)

4. In a machine for undercutting, breaking down and loading coal, the combination of a horizontal cutter frame, a kerf cutting mechanism having operative parts at both sides and at the inner end of the said frame, whereby a kerf can be cut when the frame is moving either inward or in either direction parallelly to the coal face, a conveyer having its receiving end positioned within the outlines of the frame and between the upper and lower planes of the said cutting mechanism and having its delivery end above the said planes, means above the receiving end of the conveyer for breaking down the coal, and a removable plate



adapted to be secured at whichever side of the conveyer is rearmost when the machine is moving parallelly to the coal face.

1,378,362. MINING APPARATUS. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 11, 1917, Serial No. 174,088. Renewed Sept. 11, 1920. Serial No. 409,700. 8 Claims. (Cl. 262—30.)

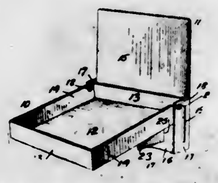


1. In a mining apparatus, the combination of a transporting truck adapted to travel over mine tracks, a complete separately operable mining machine having a relatively fixed horizontally projecting kerf cutting mechanism and adapted to rest in a predetermined position on the truck or to move off the truck and advance bodily relative to the coal face to cut a kerf therein, intermediate guiding devices comprising laterally rigid elements pivotally connected to the truck and adapted to guide the mining machine off of and onto the truck and to guide it transversely relative to the truck during its cutting operations, and pivotal devices associated with said guiding devices to permit movement of the cutting mechanism transversely of said laterally rigid element.

1,378,363. MERCHANDISE-DISPLAY BOX. FRANZ LIST, New York, N. Y., assignor to Charles A. Blades, Arlington, N. J. Filed Feb. 6, 1920. Serial No. 356,621. 3 Claims. (Cl. 211—28.)

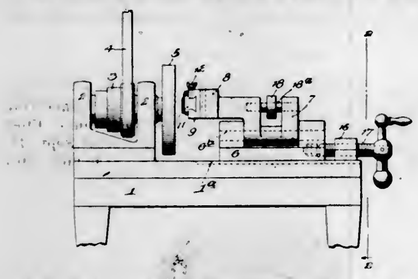
2. A merchandise display box of the character described, comprising a body portion for holding the merchandise, and a cover therefor in sliding and hinged relation thereto and adapted to be turned vertically to serve as a prop for holding the body portion in inclined display position, said cover having a bracket or foot member slit therein adapted when the cover is turned vertically to be folded for-

wardly under the elevated rear portion of said body close to the bottom thereof, and said cover having corresponding longitudinal slots in its sides and said body having



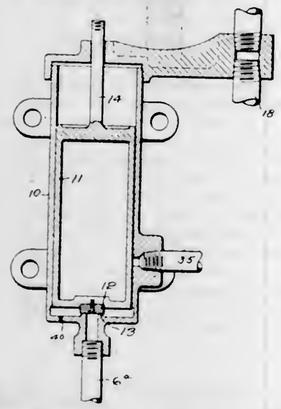
trunnions engaged in said slots, whereby the cover is permitted to slide on said body and also become hinged thereto.

1,378,364. MACHINE FOR GRINDING PALLET-STONES. EUGENE LOOSLI, Ilion, N. Y. Filed Feb. 21, 1920. Serial No. 360,326. 2 Claims. (Cl. 51—124.)



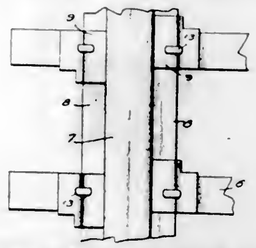
1. In a device of the kind described, a rotatable grinding disk, an arm, means for rocking said arm in an arc parallel to the face of the disk, the said arm when in intermediate position being substantially in the plane of the axis of the disk, a block carried by the arm and vertically adjustable, and a pallet stone holder carried by said block.

1,378,365. AIR-BRAKE SYSTEM. DONALD R. MACBAIN, Cleveland, Ohio. Filed Oct. 18, 1919. Serial No. 331,609. 7 Claims. (Cl. 303—26.)



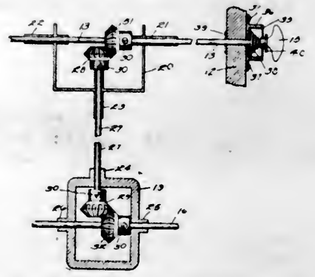
5. The combination with an automatic air-brake system operable upon reduction of pressure in the train line and including individual train line venting elements in the several cars and individual service cylinders upon said cars, of pressure operated members for actuating the venting elements, a pressure line controllable from the engine for supplying pressure to said members and means for conducting the actuating pressure from said members to the service cylinders.

1,378,366. RAIL-FASTENER. ALBERT N. MENSER, Johnstown, Pa., assignor of one-half to Joseph Moore, Johnstown, Pa. Filed Feb. 24, 1921. Serial No. 447,440. 2 Claims. (Cl. 238—344.)



2. In combination with a rail and tie, a rail fastener including a pair of plates, a portion of each of which is engaged with and extends completely across the top of the tie and embraces the base flange of the rail, both plates having portions thereof embedded in the lateral faces of the tie.

1,378,367. SIGNAL DEVICE. JOSEPH W. MICHAEL, Des Moines, Iowa. Filed Aug. 19, 1920. Serial No. 404,594. 2 Claims. (Cl. 116—46.)



1. A signal device for vehicles comprising a pair of substantially parallel rods, signal devices on the opposite ends of said rods, a bearing device on one of said rods having alined journals and a journal at right angles to said alined journals, one of said shafts being mounted in said alined journals for permitting the sliding and rotary movement of the shaft, a bearing device having alined journals receiving the second shaft and having a third journal at right angles to the second shaft, a shaft slidably and rotatably mounted in the last mentioned journal of each bearing device, a gearing detachably fixed on the first of said pair of shafts adjacent to one of said bearings, a gearing detachably fixed on the second of said shafts adjacent to one of the alined bearings thereof, gearings detachably fixed on the third shaft in mesh respectively with the first described gearings.

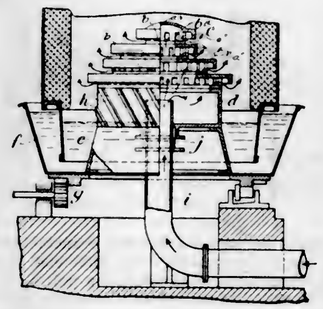
1,378,368. FLYING-MACHINE. HAROLD E. MONTAGUE, Philadelphia, Pa. Filed July 23, 1918. Serial No. 246,328. 1 Claim. (Cl. 244—30.)



In a flying machine a car having a frame including a keel and concaved ribs rising from the keel and stays or

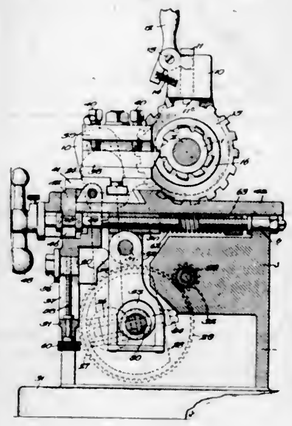
braces for the ribs, and a cover for the frame consisting of a superposed layer of metal mesh and a layer of textile material.

1,378,369. ROTARY GRATE FOR GAS-PRODUCERS. HARALD NIELSEN, Middlesex, and FREDERICK DEACON MARSHALL, Westminster, London, England. Filed Sept. 11, 1920. Serial No. 409,665. 2 Claims. (Cl. 126—182.)



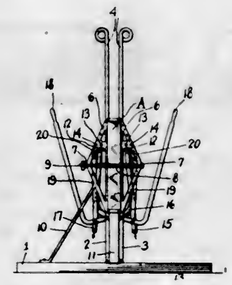
1. A rotary grate for gas producers, comprising a rotary supporting member, and a plurality of superimposed sections of different diameters carried thereby, each section comprising substantially annular upper and lower horizontal plate members, connected by a vertically disposed intermediate member provided with blast outlets, the upper plate member of each section extending outwardly beyond said intermediate member, and being provided with a downwardly extending lip, the upper plate member of the topmost section having a closed central portion forming the top of the grate, and means for supplying air to the interior of said sections.

1,378,370. MACHINE-TOOL. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Dec. 23, 1918. Serial No. 268,013. 18 Claims. (Cl. 82—19.)



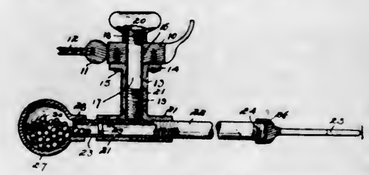
1. A machine tool adapted to produce an eccentric surface, said machine having a work holder and a tool holder, means for oscillating one of them about an axis and simultaneously producing relative movement between the two in a radial direction at definite relative rates whereby the surface has a definite eccentricity or spiral when considered in a plane transverse to said axis and means for feeding the parts toward each other in a radial direction for enabling the tool to take a similar and deeper cut for each successive oscillation of the oscillating parts.

1,378,371. HONEY-UNCAPPING MACHINE. ELIAS E. COVEYOU, Petoskey, Mich. Filed June 12, 1920. Serial No. 388,529. 1 Claim. (Cl. 6—12.)



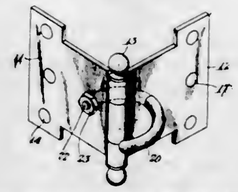
A machine of the class described comprising a guiding frame comprising a stationary part and a movable part, springs for drawing the movable part toward the stationary part, a knife adjustably mounted in each part, manual means for adjusting the knives and means for passing steam through the knives.

1,378,372. AUTOMOBILE-SIGNAL. NELSON M. DYER, Waterloo, Iowa, assignor of one-fourth to William H. Pyne, Des Moines, Iowa, and one-fourth to Lycurgus V. Darnall, Burlington, Iowa. Filed Jan. 31, 1921. Serial No. 441,340. 1 Claim. (Cl. 116—52.)



An automobile signal adapted to be secured to the windshield frame of an automobile or the like including an arm having its ends screw threaded, an indicator secured to one of the screw threaded ends of said arm, a weight secured to the opposite screw threaded end of said arm, a bearing member fixed to the windshield frame, a control shaft extended through the windshield frame and through said bearing member, the outer end of said control shaft being operatively connected with said arm near said weight, a hand engaging member mounted on the inner end of said control shaft whereby it may be engaged for swinging said arm in a vertical plane from inoperative to operative position, the parts being so arranged that the weight normally holds the arm in vertical position.

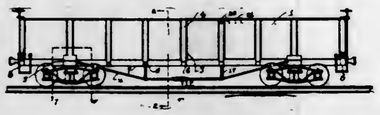
1,378,373. CASEMENT-ADJUSTER. WILLIAM K. EARLE, Ocean Park, Calif. Filed July 19, 1919. Serial No. 312,078. 2 Claims. (Cl. 16—111.)



1. A casement adjuster comprising two members adapted to be secured to the casement and casement frame

respectively; a pintle connecting said members; and an eccentrically shaped spring rod secured at one end in one of said members and frictionally engaging the other of said members.

1,378,374. CONCRETE RAILWAY-CAR. ARTHUR C. GRIEWANK, San Francisco, Calif. Filed May 20, 1920. Serial No. 382,873. 25 Claims. (Cl. 105—405.)



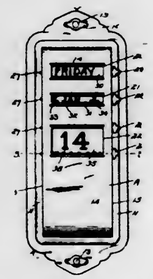
1. In a reinforced concrete car, a concrete body, having depending therefrom and integral therewith, bolsters and a chord, and depending posts and truss members which are operatively associated with the lower ends of said posts extending longitudinally beneath said body and means for transferring the stresses of same to said car-body.

1,378,375. EXTENSION-TABLE. CHARLES H. GUNN. Oakland, Calif. Filed June 14, 1920. Serial No. 388,740. 5 Claims. (Cl. 45—113.)



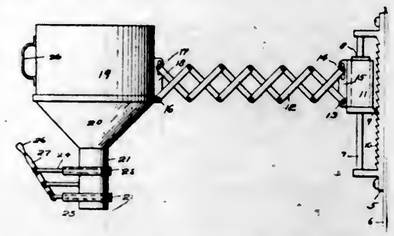
1. An extension table comprising a supporting frame, a central table top fixed thereto, intermediate leaves at the ends of the central top and normally depressed relative thereto, means for raising the intermediate leaves to the level of the central top, and outer end leaves normally overlapping the central and intermediate leaves and adapted to be pulled away from each other for certain predetermined distances.

1,378,376. PERMANENT CALENDAR. THOMAS QUITMAN HARRISON, Denver, Colo. Filed Jan. 31, 1921. Serial No. 441,442. 5 Claims. (Cl. 40—117.)



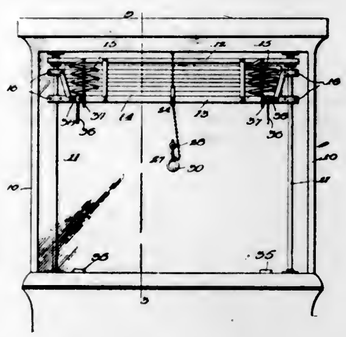
1. In a device of the class described a support having an aperture, a casing of resilient material having its back open anchored to said support so as to cover the aperture in said support, said casing having a plurality of apertures in the front surface of said casing, the sides of said casing being provided with a plurality of registering openings, a plurality of rolls received in said casing and journaled in said registering openings, actuating key members secured to one end of said rolls and adapted to extend exterior of the casing, the sides of said casing being provided with annular ribs adapted to co-act with the ends of said rolls for frictionally engaging them for preventing their undesired movement.

1,378,377. HOT-CAKE MACHINE. WILLIAM L. HEATHCOTE, Kansas City, Mo. Filed Aug. 27, 1920. Serial No. 406,308. 3 Claims. (Cl. 107—29.)



1. In combination an extensible and retractable element, a batter container mounted at the outer end thereof, a hand grasp upon the batter container a pull upon which effects the extension of the extensible element and a push upon which effects the retraction of said element, a valve mechanism for controlling the discharge of batter from the container and an operating handle for said valve mechanism operable in the plane of movement of the extensible element during the extension and retraction thereof.

1,378,378. WINDOW-GUARD. BERTILL CARL PETTERSON, Memphis, Tenn. Filed Mar. 26, 1920. Serial No. 369,058. 7 Claims. (Cl. 189—79.)



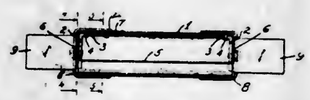
1. The combination with a window frame having a glass, of a guard screen extensible and collapsible within the window to cover the said opening and means connected to the window glass and controlled by the vibration thereof for normally holding the screen in folded or collapsed position.

1,378,379. DRIVING OR POWER TRANSMISSION BELT. FREDERICK W. RADELL, Glenside, Pa. Filed Dec. 27, 1919. Serial No. 347,766. 4 Claims. (Cl. 74—63.)



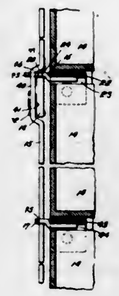
1. In a power transmission belt, a belt proper having inturned flanges forming channels within the same at opposite sides, and a bearing surface of cork having its ends received and retained within said channels with its acting face extended between the adjacent ends of said flanges.

1,378,380. RENEWABLE FUSE. LEON W. ROSENTHAL, New York, N. Y., and GUSTAVE J. LANG, Weehawken, N. J., assignors to Arthur T. Murray, Allentown, Pa. Filed Dec. 24, 1918. Serial No. 268,135. 3 Claims. (Cl. 200—132.)



1. A renewable fuse consisting of a tube, end plates fast with said tube and having openings with substantially parallel sides, a fuse passing through the tube and said openings with its ends folded over the outside of the plates to form fuse terminals, caps positioned over the ends of the tube, end screws passing through the caps into screw-threaded engagement with the plates to prevent endwise displacement of the caps on the tube and to clamp the fuse terminals between the plates and caps, said caps having expanding slots completely out of registry with the openings in the plates to provide a tortuous path for the escaping gases upon blow-out of the fuse.

1,378,381. WARDROBE-TRUNK. GEORGE SACHNOFF, Brooklyn, N. Y. Filed Mar. 5, 1921. Serial No. 449,796. 8 Claims. (Cl. 45—94.)



1. A trunk having a tier of drawers and locking mechanism therefor comprising upper and lower keepers rigidly secured to upper and lower portions of the trunk and exposed outwardly beyond the drawers, a locking bar extending vertically across the faces of the drawers and engaging said keepers, and a lock secured to the rear face of said bar adjacent to one of said keepers, said bar being offset to form a recess for said lock and a shoulder to engage the outer end of said keeper, and said keeper at the back of said bar and at the closed end of said recess being provided with a slot into which the bolt of the lock may be projected.

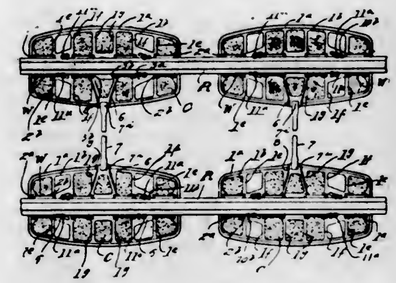
1,378,382. AVIATOR'S PARACHUTE AND PACK. ALLEN C. SCOTT, Omaha, Nebr. Filed Nov. 7, 1918. Serial No. 261,730. 3 Claims. (Cl. 244—21.)

1. An aviator's safety appliance, comprising a main parachute, means adapted to be secured upon the body of the aviator and to normally retain said parachute in folded form, and means for pulling said parachute from the retaining means, comprising a small auxiliary parachute attached to the main parachute and also normally held in folded form by the retaining means, said auxiliary



parachute having a portion protruding from the retaining means and adapted to be grasped manually for withdrawal therefrom.

1,378,383. RAILROAD-TIE. JOSEPH A. SILVER, New York, N. Y., assignor to The Silver Steel Tire Company, a Corporation of Utah. Filed Aug. 5, 1919, Serial No. 315,471. Renewed Aug. 2, 1920. Serial No. 400,800. 40 Claims. (Cl. 238—111.)

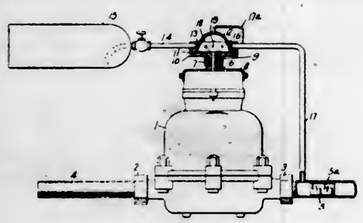


1. A sleeper comprising an approximately annular base, a plurality of spaced transversely disposed ribs connected with such base, and rail seats supported by said ribs, substantially as described.

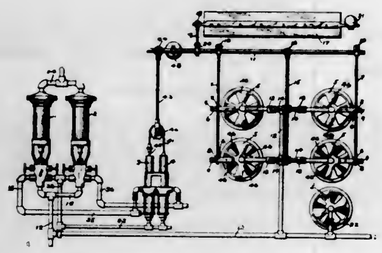
1,378,384. APPARATUS FOR MIXING FLUIDS. WALTER O. SNELLING, Pittsburgh, Pa. Filed Oct. 14, 1915. Serial No. 55,753. 14 Claims. (Cl. 210—27.)

1. Apparatus for mixing fluids comprising a member defining a passage through which a stream of fluid flows,

and means operable in response to the flow of fluid in the said passage and adapted to deliver isolated and predetermined quantities of another fluid into the said flowing fluid, maintained under higher pressure.



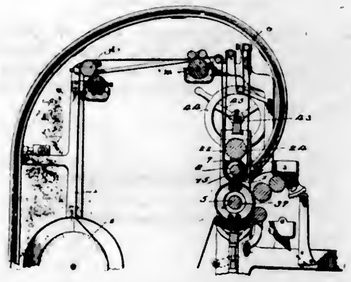
1,378,385. AUTOMATIC FUEL-STOKING APPARATUS. CARLTON D. STEWART, Berkeley, Calif., assignor to Associated Engineering and Supply Company, San Francisco, Calif., a Corporation of California. Filed Feb. 10, 1920. Serial No. 357,631. 5 Claims. (Cl. 158—45.5.)



1. In a liquid fuel burning apparatus, the combination with a plurality of pipes for supplying liquid fuel to corresponding liquid fuel burners, of a valve for controlling the supply of liquid fuel to each pipe, a regulating mechanism for operating said valves and having different positions for fully opening or closing one or more of said valves, and a controlling device operated according to variations in steam pressure for effecting the operation of said mechanism.

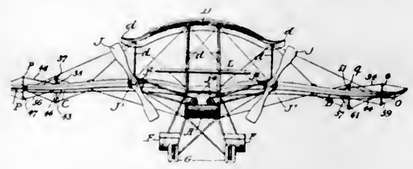
1,378,386. WEB INTAGLIO-PRINTING PRESS. BENJAMIN R. STICKNEY, Washington, D. C. Filed May 12, 1920. Serial No. 380,715. 19 Claims. (Cl. 101—156.)

1. A web intaglio printing press including in combination a printing cylinder, an impression cylinder therefor, consisting of a free circular shell, and means for varying



the entire circularity thereof whereby the web is kept in continuous contact against the printing cylinder.

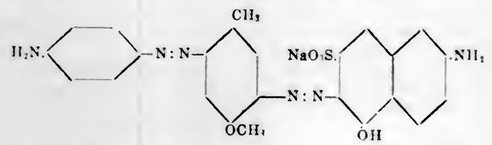
1,378,387. HYDROAEROPLANE. HARLOW T. STOKES, Brooklyn, N. Y. Filed Aug. 7, 1913. Serial No. 783,486. Renewed Jan. 6, 1920. Serial No. 349,839. 16 Claims. (Cl. 244—12.)



3. In a machine of the class described, a weight carrying plane of the bird wing type, characterized by a compound curvature lengthwise and crosswise thereof and embodying a main longitudinal beam curved in the direction of its length, and a series of cross ribs attached to said beam, said cross ribs decreasing in height and length from the rib at the inner end of the plane to the rib at the outer end of the plane, the angle of incidence of the rib at the inner end of the plane being greater than the corresponding angle of the rib at the outer end of the plane.

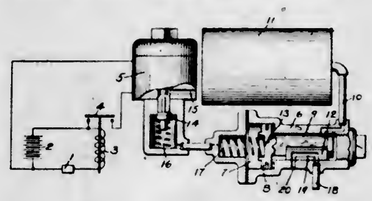
1,378,388. DISAZO DYE. THERESA M. SUSEMIHL, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed July 14, 1920. Serial No. 396,124. 9 Claims. (Cl. 8—1.)

1. The herein described new disazo dye having in the form of its sodium salt the following probable formula:



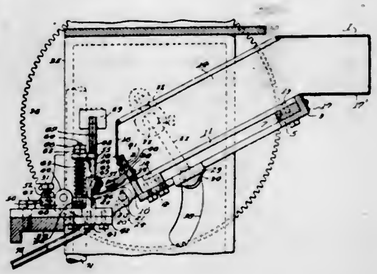
said dye, in the form of its sodium salt and in the dry and powdered state, being a greenish to brownish black powder soluble in water to give a greenish violet solution, soluble in alcohol with a reddish violet color, soluble in concentrated sulfuric acid with a bluish green color, and yielding upon reduction with stannous chlorid and hydrochloric acid p-phenylendiamin, diamino-p-cresol methyl ether, and diamino-1-naphthol-3-sulfonic acid; and dyeing cotton, wool, silk, and other fibers, or mixtures of the same, reddish blue shades which can be developed on the fiber to give various shades of blue to black.

1,378,389. AUTOMATIC TRAIN-CONTROL DEVICE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 24, 1918. Serial No. 241,481. 1 Claim. (Cl. 246—29.)



In a train control system, the combination with apparatus on the train for controlling the train, of means responsive to light for controlling the operation of said apparatus and a plurality of sources of light banked together and located at a point along the track for controlling said means.

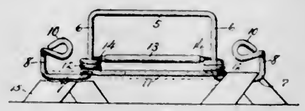
1,378,390. MULTIPLE STAPLING-MACHINE. HARRISON B. WALTER, Philadelphia, Pa., assignor to Fibre Container Company, a Corporation of Pennsylvania. Filed May 14, 1919. Serial No. 297,008. 6 Claims. (Cl. 1—3.)



1. In a stapling machine comprising means for driving and clenching staples, the combination of reciprocable means for holding a quantity of staples, means actuated by power for reciprocating said holding means to agitate said staples, longitudinal separating means in said holding means provided with spaces for separating said staples and permitting the legs of said staples to depend in said spaces during said agitating operation, means for receiving said staples from said separating means and for guiding said staples to a picking-off position, pivotally mounted means with an end thereof normally adjacent said guiding means for successively receiving staples therefrom and for holding said staples in picking-off position, power actuated means for picking off staples in a single multiple from said last mentioned means, resilient means for returning said picking-off means to inoperative position, means connected to said pivotally mounted means and said picking-off means for returning said pivotally mounted means to normal staple receiving and holding position upon the return of said picking-off means to inoperative position and guide means for guiding said staples to said driving and clenching means.

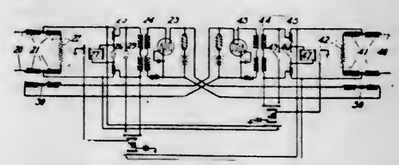
1,378,391. BUCKLE OR CLAMP. BIRDORA H. WHITE, Chicago, Ill. Filed Feb. 28, 1920. Serial No. 361,964. 6 Claims. (Cl. 24—196.)

1. A buckle comprising an inverted U-shaped supporting-frame made of one continuous piece of wire and having the lower ends of the parallel portions bent laterally away from each other and formed into hooks, the ends of which are bent upward, and a clamping member consisting of a lower and an upper horizontal cross-bar connected by tubular guides that are slidably mounted on the vertical



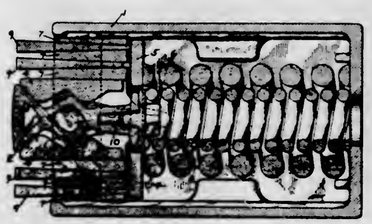
portions of said supporting-frame, said clamping member also being made of a continuous piece of wire, and the guides of several coils.

1,378,392. SIGNALING SYSTEM. DONALD F. WHITING, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,409. 4 Claims. (Cl. 179—171.)



1. In a signaling system, in combination, two line sections, an amplifier for amplifying talking and signaling currents whose output circuit is connected with one line section, an input transformer connecting the input circuit of the amplifier with the other line section, means associated with the other line section for controlling the amplification of the amplifier to currents of talking frequencies, a loop circuit tuned to current of the signaling frequencies associated therewith and rendered effective when signaling current is impressed upon the terminals thereof to alter the effect of the amplifier controlling means upon the signaling currents, and a switching means included in said circuit.

1,378,393. FRICTION DRAFT-GEAR. HARRY F. WOERNLEY, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1919. Serial No. 337,360. 4 Claims. (Cl. 213—64.)



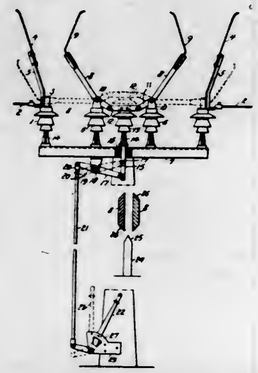
1. In a friction draft gear, the combination with one group of wedge shaped friction plates and another group of alternated wedge shaped friction plates having relative longitudinal movement parallel with the line of draft, of wedging means for impressing a lateral pressure on said friction plates.

1,378,394. METHOD OF ANCHORING AEROPLANE, NAVIGATING, AND SUPPLY STATIONS AT ANY DEPTH OF THE OCEAN. EDWARD R. ARMSTRONG, Wilmington, Del. Filed July 25, 1919. Serial No. 313,172. 9 Claims. (Cl. 114—0.5.)



1. The herein described method of anchoring an aeroplane supply and navigation station, which consists in collocating said station with an anchorage float having an anchorage cable attached thereto of such weight, strength and length that the lifting effect of said float on said cable caused by drifting forces acting on said sea station is at its maximum insufficient to raise all of said anchorage cable from the ocean bottom.

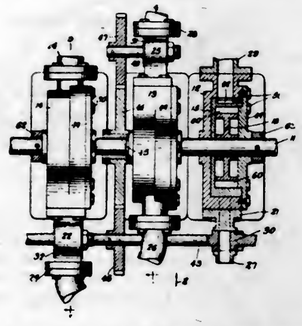
1,378,395. AIR-BRAKE SWITCH. FERDINAND BECHOFF and MAURICE M. SAMUELS, New York, N. Y., assignors to Lewis and Roth Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 3, 1917. Serial No. 166,256. 7 Claims. (Cl. 200—48.)



1. An outdoor air break switch comprising, in combination, a fixed contact, a fixed insulator, and a switch blade hinged to said fixed insulator, all freely exposed to the weather; a movable insulator operatively connected to the switch blade; and means for giving said switch blade a hammering motion to cut away ice or sleet lodged on said contact or said switch blade by a direct push and pull on said movable insulator, with avoidance of torsional or bending stresses thereon.

1,378,396. STEAM-TURBINE ENGINE. WILLIAM H. BELKNAP, New York, N. Y., assignor of one-fourth to Thomas B. Law, Brooklyn, N. Y. Filed Nov. 8, 1919. Serial No. 336,568. 3 Claims. (Cl. 253—47.)

1. An engine of the class described comprising a cylinder, a shaft passing through said cylinder, a cylinder liner for said cylinder, a rotor mounted in said cylinder liner and secured to said shaft, a plurality of intake passages in said cylinder liner, an exhaust passage in said cylinder liner, said intake and exhaust passages being provided with ports, a plurality of independent pockets in said rotor



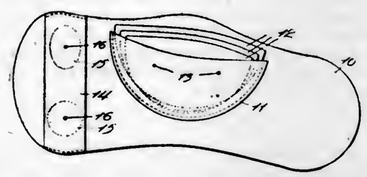
and adapted to communicate with said ports, independent intake ports in said cylinder and communicating with the intake passages of said cylinder liner, a valve device for controlling said intake ports, and an exhaust port in said cylinder and in communication with the exhaust passage of said cylinder liner.

1,378,397. DEMOUNTABLE RIM. FRANK G. BERON, Waterbury, Conn., assignor to Francis P. Guilfoile, Waterbury, Conn. Filed Nov. 30, 1917. Serial No. 204,684. 1 Claim. (Cl. 301—32.)



A two part collapsible and demountable tire carrying rim for vehicle wheels comprising a main rim portion forming the greater part of the wheel's circumference and provided with a rectangular aperture and a circular aperture in its respective end portions completing the wheel's circumference, a segmental rim portion having a tongue fitting in said rectangular aperture and providing a pivotal joint, said segmental section also having at the outer end thereof a disk-tongue portion fitting within said circular aperture and providing a flush joint between the rim portions, said main and segmental rim sections having side flanges and a member pivotally mounted on the main rim portion adapted to engage the under surface of said disk-tongue and with said side flanges to secure the joint thereat, substantially as set forth.

1,378,398. ARCH-SUPPORT. ALEXANDER E. BLOCK, St. Louis, Mo. Filed Aug. 22, 1918. Serial No. 250,959. 4 Claims. (Cl. 36—71.)



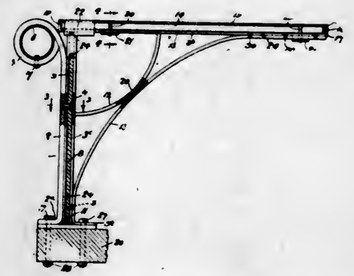
1. In an arch-support, an insole; a perforable strip secured at its ends to the lower face of said insole; and an insert having a projecting prong adapted to be seated by pressure in said strip.

1,378,399. VEHICLE-WHEEL. LYMAN D. BROWN, Flint, Mich. Filed May 10, 1919. Serial No. 296,256. 3 Claims. (Cl. 152—8.)



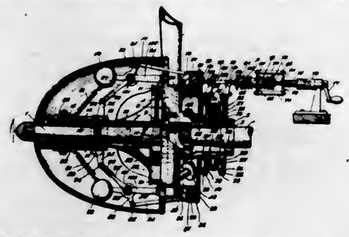
3. In combination with the rim and spokes of a vehicle wheel, clips having sockets thereon to slide upon the spokes, ledges on the bodies of the clips wherewith they may be securely connected with a suspended rim, a resilient rim mounted upon said clips concentric with, but some distance from the wheel rim, and fitted for mounting an ordinary stock tire thereon said clips so adjusted that weight upon the wheel will cause the wheel rim to be forced toward the part of the resilient rim that bears upon the ground and resiliency will, thereby, be imparted to the wheel.

1,378,400. BRACKET FOR DISPLAY-COUNTERS. ARCHIBALD COOK, Mount Vernon, and CHARLES GREENBAUM, New York, N. Y. Filed Dec. 1, 1919. Serial No. 341,622. 2 Claims. (Cl. 211—25.)



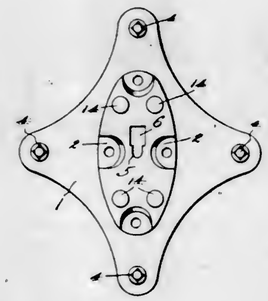
1. A bracket for display counters comprising in combination upright members, a horizontal member, an inwardly curved brace secured at one end to one of said upright members and at the other end to said horizontal member, an outwardly curved brace secured at its lower end to said upright member, at its upper end to said horizontal member and centrally to said inwardly curved brace and having feet by which the bracket may be secured to its support, a support secured to said upright members having a ring at its upper end to receive a guard rail and a foot by which it may be secured to the support upon which the display counter is to be mounted.

1,378,401. REVERSING PROPELLER. NELSON E. DAVIES, Redwood City, Calif. Filed Apr. 7, 1920. Serial No. 371,935. 10 Claims. (Cl. 170—163.)



1. In a propeller mechanism, the combination of a power shaft; a propeller mounted on said shaft; a planetary differential gear concentrically mounted on said shaft; connections between said propeller and said gear adapted to change the pitch of said propeller; and a hand operated mechanism for governing said differential gears and said connections, substantially as described.

1,378,402. SHAFT-HANGER. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Feb. 8, 1917, Serial No. 147,296. Divided and this application filed Nov. 16, 1918. Serial No. 262,760. 11 Claims. (Cl. 64—14.)



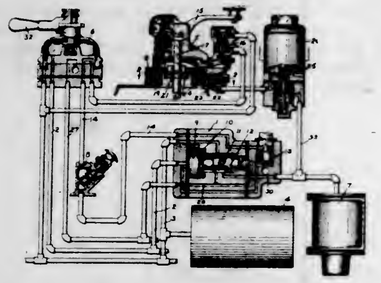
1. A sewing machine stand comprising a column provided with a base having fastening means for securing it in position, a shelf secured to said column with means for maintaining in position thereon a sewing machine, and overhead shaft-bearings carried by said column and adapted to receive and sustain a power-shaft for driving the sewing machines.

1,378,403. MILK-BOTTLE SUPPORT. DAVID DUNN, Philadelphia, Pa. Filed Apr. 17, 1920. Serial No. 374,538. 4 Claims. (Cl. 232—42.)



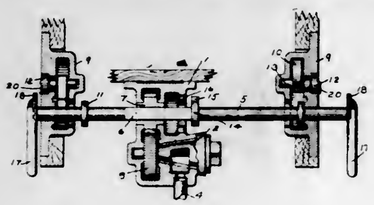
2. In a bottle holder of the character stated, a hood, a plate connectible with the jamb of a door, means on said plate and hood for detachable attachment of the latter with the former and sustaining said hood in operative position on said jamb, said hood having an opening in its bottom, and a horizontally extending slidable flap member in the hood adapted to close partly said opening, and a vertically extending limb with which said flap is connected as an elbow, said limb being adapted to be retained on the back wall of said hood, said wall having therethrough in its bottom a passage in which said flap member is movable.

1,378,404. SAFETY CAR-CONTROL DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 5, 1919. Serial No. 294,878. 7 Claims. (Cl. 303—19.)



6. In a safety car control apparatus, the combination with a power controller and a brake cylinder for applying the brakes, of a spring tending to move the controller to off position, a lock for holding the spring under tension, a piston operated by brake cylinder pressure for releasing said lock, a valve for controlling the supply of fluid from the brake cylinder to said piston, and a magnet adapted to be energized by current supplied to the car motor for opening said valve.

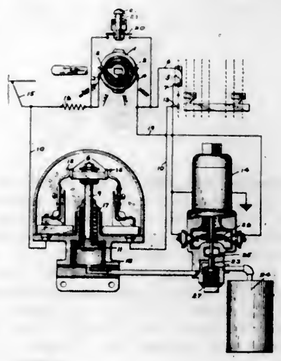
1,378,405. BRAKE-PIPE CUT-OUT COCK. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1919. Serial No. 330,789. 3 Claims. (Cl. 137—139.)



1. An operating device for train pipe cut-out cocks, comprising a rotatable and longitudinally movable shaft mounted transversely of the car and operatively connected to the cut-out cock, a member carried by said shaft for locking the same against rotation and adapted to be released upon longitudinal movement of the shaft, a collar secured to the shaft near each end, and a pawl for normally preventing outward longitudinal movement of the collar and shaft.

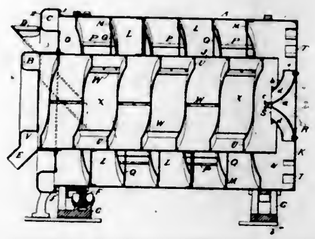
1,378,406. SAFETY CAR DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1920. Serial No. 368,909. 9 Claims. (Cl. 303—19.)

1. In a car brake and power controlling apparatus, the combination with a power controller, of a switch device for controlling the power circuit of the controller, electrically controlled means for controlling the operation of



said switch, and a brake valve device for controlling the circuit of said means.

1,378,407. DRIER, COOLER, AND SIMILAR DEVICE. GEORGE HOLT FRASER, Brooklyn, N. Y. Filed Apr. 27, 1915, Serial No. 24,221. Renewed July 29, 1920. Serial No. 399,891. 15 Claims. (Cl. 34—5.)

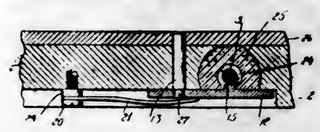


1. In combination, a rotatable drum, means for discharging a fluid current tangentially therefrom and means for introducing material to said drum.

2. In combination a rotatable drum, means for introducing a whirling fluid current into one end of said drum, means for discharging a fluid current from the other end of said drum, means near one end of said drum for discharging material therefrom, and means for introducing material to said drum.

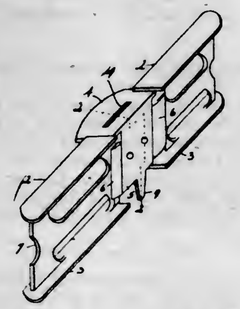
3. In combination, a rotatable drum, means for introducing a fluid current tangentially of said drum, a lifting unloader for discharging material from said drum, and means for feeding material into said drum.

1,378,408. STEM WINDING AND SETTING DEVICE. JOSEPH A. FREUND, Newtonville, Mass., assignor to Keystone Watch Case Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 5, 1918. Serial No. 243,299. 4 Claims. (Cl. 58—68.)



3. The stem winding and setting devices for watches, comprising a plate, a winding stem, a clutch sleeve mounted on said winding stem, a clutch member coöperating with said clutch sleeve, a pendant lever operating said clutch member and pivotally mounted on said plate and having an actuating lug coöperating with said winding stem and a retaining spring engaging said pendant lever between its pivot point and actuating lug to releasably hold it in coöperation with said winding stem.

1,378,409. SAW-TOOTH GAGE. COLEMAN O. HAWKSLEY and WILLIAM J. BAUMANN, Philadelphia, Pa. Filed July 14, 1920. Serial No. 396,190. 4 Claims. (Cl. 33—202.)



1. In a gage for the raker teeth of a cross cut saw, the combination of a web, two top plates secured to said web, the inner edges of said plates being spaced apart to form an access opening, two bottom plates also secured to said web their inner edges being spaced apart, a sliding support adjustably secured to the web, a slotted gage plate carried by one end of said support, and a gage prong carried by the other end of said support.

1,378,410. RECOVERY OF POTASH FROM POTASH-BEARING BRINES. GEORGE HECKER, Borosolvay, Calif., assignor to Pacific Coast Borax Company, New York, N. Y., a Corporation of Nevada. Filed Sept. 21, 1918. Serial No. 255,044. 3 Claims. (Cl. 23—22.)

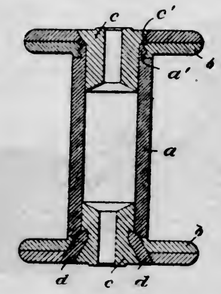
3. The method of recovering potasium salts from concentrated hot liquors containing them in solution, in association with borax, which consists in simultaneously agitating and rapidly cooling by circulation of a cooling medium in indirect contact therewith the body of hot liquors until the potassium salts are precipitated as uniform coarse crystals of good white color while the borax remains in solution, and thereupon separating from the liquor the potassium salts thus obtained; substantially as described.

1,378,411. PROCESS OF TREATING ORES PREPARATORY TO SMELTING. JULIUS W. HEGELER, Danville, Ill. Filed Apr. 9, 1920. Serial No. 372,433. 8 Claims. (Cl. 75—153.)

1. In the art of zinc ore smelting, a preliminary treatment of the ore for the purpose of producing a fixed mixture of zinc ore and carbon, which consists in intimately associating and commingling zinc ore and coking coal or other coking material, and in then subjecting said mixture to a coking process, substantially as described.

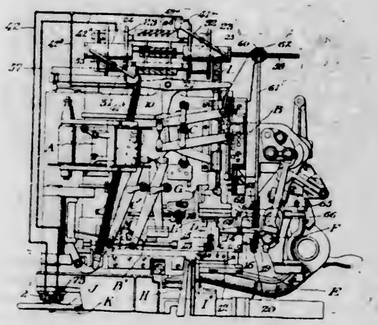
1,378,412. SPOOL FOR WINDING WARPS AND OTHER PURPOSES. GEORGE HUTCHINSON, Fall River, Mass. Filed June 9, 1920. Serial No. 387,580. 5 Claims. (Cl. 242—118.)

1. A spool for winding warps or the like embracing in its construction a tubular barrel whose opposite ends are rabbeted to form stop shoulders, the rabbeted ends being threaded, end heads having threaded engagement with said rabbeted ends and reinforcing plugs secured in the opposite ends of the barrel and having outwardly flared conical portions engaging countersunk conical surfaces



formed in both the barrel and the end heads to reinforce the threaded connection and prevent stripping the threads under endwise strain, substantially as described.

1,378,413. TYPOGRAPHIC MACHINE. MAURITZ C. INDAHL, Philadelphia, Pa., assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a Corporation of Virginia. Filed Sept. 12, 1919. Serial No. 323,284. 22 Claims. (Cl. 199—84.)

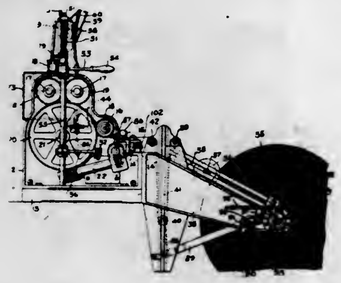


4. A typographic machine embodying the following instrumentalities to wit: a mold provided with a plurality of blades and with adjustable mechanism for determining which of said blades shall be operated, a selector device for adjusting said mechanism embodying a plurality of selector members corresponding with the various positions of adjustment of said adjustable mechanism, means for selectively operating said members, a selector plate movable against an operated member, means for connecting said plate with said adjustable mechanism, and means operated by said operated member to control the movement of said plate.

1,378,414. STRIP-PERFORATOR. MAURITZ C. INDAHL, Philadelphia, Pa., assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a Corporation of Virginia. Filed Sept. 20, 1919. Serial No. 325,165. 6 Claims. (Cl. 164—89.)

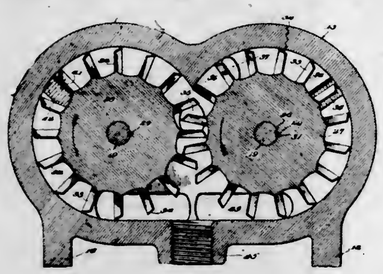
1. In a paper strip perforating machine, the combination with means for feeding the strip continuously at a uniform speed, of a perforating mechanism comprising an oscillatory punch carrier mounted on a fixed axis and having a paper passage therethrough at one side of said axis, punches mounted in said carrier to move radially with respect to said axis to intersect the paper passage,

a drive shaft mounted in bearings parallel with and on the opposite side of said axis from the paper passage, cams on said shaft coöperating with the punches to reciprocate



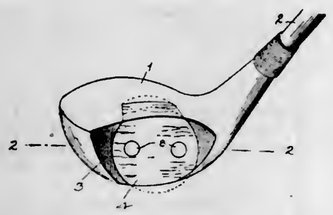
the latter, and eccentrics on said shaft coöperating with the punch carrier to oscillate the same during the reciprocation of the punches.

1,378,415. ROTARY ENGINE. ARTHUR B. JOHNSON, Las Animas, Colo. Filed Feb. 14, 1920. Serial No. 358,799. 3 Claims. (Cl. 253—16.5.)



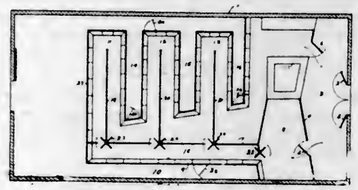
1. The combination with a casing having a pair of rotor heads, of steam supply jets formed on said rotor heads and discharging at an angle to said rotors, and a downwardly extending pointed dividing member arranged between the upper portions of said rotors.

1,378,416. GOLF-CLUB. WILLIAM J. KEYS, Hutchinson, Kans., assignor to The Crawford, McGregor and Canby Co., Dayton, Ohio, a Corporation of Ohio. Filed Oct. 29, 1919. Serial No. 334,359. 11 Claims. (Cl. 46—4.)



1. The combination with the head of a golf club, of a body of ivory inserted in the striking face thereof, the grain of the ivory insert being arranged parallel with the face of the club.

1,378,417. SELF-SERVING STORE. HOARD LEE, Shreveport, La. Filed May 11, 1920. Serial No. 380,634. 2 Claims. (Cl. 211—8.)

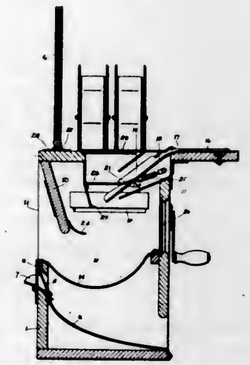


2. In a self-serving store, in combination with an inclosure of an entrance passageway formed of a row of shelving and a partition spaced apart, said row of shelving continuing on around the partition and following a general zigzag course so as to produce a number of parallel aisles opening toward the partition, each tier of said zigzag shelving being longer than the one just in front of it and lattice work doors for forming a back to said shelving and turn-stiles in the partition opposite the respective aisles.

1,378,418. METHOD OF PRECIPITATING ACID COLORS. AUGUST LENDLE, Forest Hills, N. Y., assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 9, 1920. Serial No. 409,246. 4 Claims. (Cl. 8—6.)

1. The method of precipitating acid colors, which consists in treating the same with a precipitating agent, and a complex acid containing an acid and tungsten.

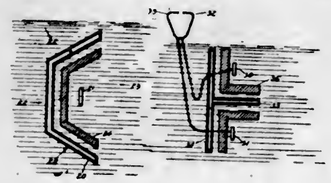
1,378,419. TICKET DELIVERING, CHECKING, AND REGISTERING MACHINE. ALBERT MARSH, Chertsey, England. Filed May 27, 1919. Serial No. 300,160. 14 Claims. (Cl. 211—33.)



1. In a ticket delivering machine, the combination of means for supporting two separate ticket strips, a driving shaft, a pair of feed rollers loosely mounted side by side on said shaft, a clutch device slidably keyed to said shaft, a lever associated with said clutch device, locking means secured to said lever, said lever being adapted to be operated to move said clutch in either direction for driving engagement with either feed roller and simultaneously to move the locking means into engagement with the feed roller which is not being driven so as to secure the same against rotation, a second pair of feed rollers geared to and

coöperating with the first pair of feed rollers to feed the ticket strips forward therebetween, means for adjusting the pairs of feed rollers with respect to one another, and registering means for registering the tickets delivered from each strip.

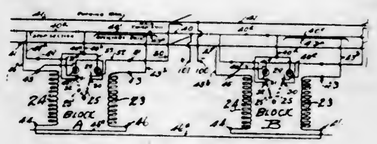
1,378,420. SUBMARINE SOUND DETECTION. ERNEST MERRITT, Ithaca, N. Y. Filed Sept. 6, 1919. Serial No. 322,220. 3 Claims. (Cl. 181—0.5.)



1. The combination of a sound screen having a yielding pressure release surface immersed in a liquid, a sound receiver immersed in the liquid in proximity to the screen and an inertia plate interposed between the screen and receiver, substantially as described.

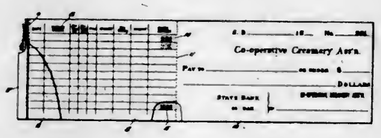
2. The combination of a sound receiver immersed in a liquid and a sound screen partially surrounding the receiver and shielding it from sounds at back and sides, and an inertia plate between the receiver and sound screen, substantially as described.

1,378,421. SIGNAL DEVICE FOR MINIATURE ELECTRIC RAILWAYS. ROBERT N. MILLER, Altoona, Pa. Filed Sept. 20, 1920. Serial No. 411,377. 8 Claims. (Cl. 246—31.)



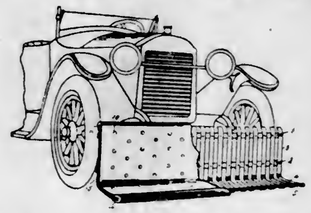
1. A railway signaling system of the class described including a home block and a distant block, a charged third rail common to both blocks, an automatic stop section and an auxiliary third rail section in each block, and means whereby a train entering the home block will render the automatic stop section of the said home block dead and simultaneously energize the automatic stop section of the distant block.

1,378,422. RECEIVING-ACCOUNT CHECK. JENS RIIS, Castlewood, S. D. Filed July 29, 1920. Serial No. 399,807. 6 Claims. (Cl. 283—58.)



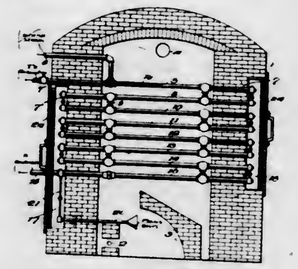
1. A check pad including an upper permanent entry sheet having a series of consecutively numbered rows divided into entry spaces forming columns and headed, a series of superposed check blanks, and a series of superposed stubs beneath the columned entry sheet, detachably connected to the pad and detachably connected to the check blanks, the several stubs having headed columns like the entry sheet and having numbers corresponding to their check blanks registering with the respective numbers of the entry sheet.

1,378,423. MOTOR-CAR FENDER. MARK ALEXANDER ROBINSON, Toronto, Ontario, Canada. Filed Aug. 9, 1920. Serial No. 402,373. 1 Claim. (Cl. 293—42.)



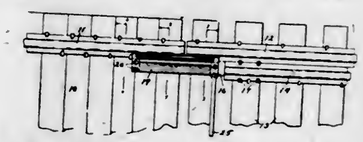
A motor car fender comprising spaced vertically arranged pieces having their lower ends turned outwardly forming a supporting member, transverse pieces connecting said vertical pieces, supporting brackets comprising slotted bars adjustably secured to the uppermost of said connecting pieces adjacent opposite ends thereof and projecting rearwardly at right angles thereto and adapted for adjustable connection with a vehicle and slotted bars adjustably secured to the lowermost of said connecting pieces and to the first mentioned bars, and an impact receiving pad having resilient projections forming a facing therefor.

1,378,424. OIL-CRACKING PROCESS. ALLEN ROGERS, Brooklyn, N. Y. Filed June 1, 1920. Serial No. 385,646. 3 Claims. (Cl. 196—25.)



1. The process of cracking oil to form motor fuel and the like which comprises mixing such oil with about the right amount of steam to vaporize it at a temperature of 600° F., and produce a vapor mixture substantially free of liquid and progressively heating the mixture of steam and oil vapor from a temperature of about 600° F. to about 800° F., (as a thin traveling annular layer,) thereafter removing the vapors and condensing the cracked products formed.

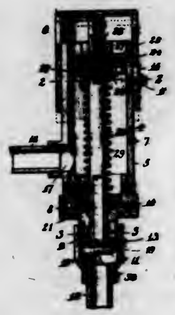
1,378,425. APPROACH FOR TRACK-SCALES. LUCIUS R. ROSEBROOK, Oskaloosa, Iowa. Filed Aug. 25, 1920. Serial No. 405,893. 7 Claims. (Cl. 238—174.)



7. In an approach for track scales, a bridge member suitably mounted adjacent the initial end of a scale rail

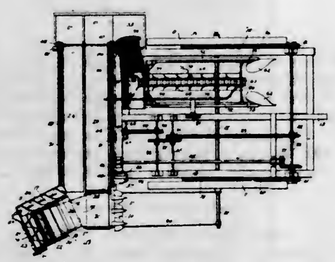
and extending beyond the end thereof, said bridge member being formed with a straight side in contact with said scale rail and with its opposite side inclined, said bridge member being formed with a convex flangeway extending from end to end thereof parallel with said scale rail.

1,378,426. AIR-VALVE. ORVILLE R. SACKETT, Niagara Falls, N. Y. Filed Jan. 10, 1920. Serial No. 350,626. 5 Claims. (Cl. 251—137.)



5. An air valve comprising a two part casing, one of said parts being formed of an open-ended cylinder having a lateral outlet and being internally threaded at one end and a cap threaded into said internally threaded end and having an air inlet formed by an axially arranged bore and a valve seat at the outer end of said bore, the other part of said casing being cup-shaped to fit over the opposite end of said open ended cylinder, a valve having a valve stem extending through said bore and a valve head adapted to seat against said valve seat, a piston adjustable on said valve stem within said open-ended cylinder, and a spiral spring surrounding said valve stem and bearing with one end against said cap and with its other end against said piston.

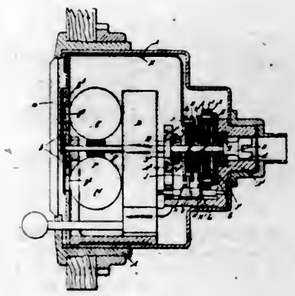
1,378,427. BEET-HARVESTER. FRITZ SLATHAR, Eau Claire, Wis. Filed Mar. 18, 1919. Serial No. 283,286. 11 Claims. (Cl. 55—107.)



1. In a beet harvester, a cutter for removing the foliage from the standing plants, a platform back of the cutter, a conveyer running above the platform to receive the foliage, a second conveyer onto which the platform conveyer discharges, a receptacle into which the second conveyer discharges, a topper operating after the removal of the foliage from the plants, a receptacle to receive the tops, and means for delivering the tops to said receptacle.

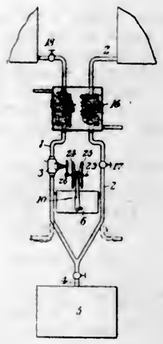
6. In a beet harvester, a cutter for removing the foliage from the standing plants, a platform carrying the cutter, a frame hinged to the rear end of the platform and free to rise and fall, a topping knife carried by the frame, and a gage bar carried by the frame in front of the topping knife.

1,378,428. SPEEDOMETER. ALFRED SPEIGHT, Wimbledon Park, England. Filed Feb. 5, 1920. Serial No. 356,517. 3 Claims. (Cl. 235—104.)



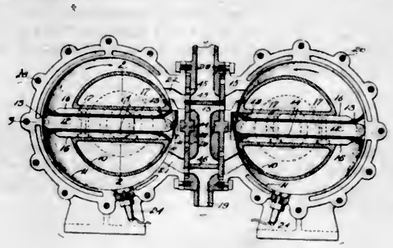
1. In a speedometer, speed indicating mechanism, a continuously driven speedometer shaft, a carrier on the said shaft, a pair of epicyclic pinions on the said carrier secured together for rotation, a pair of sun wheels of slightly different diameters gearing with the said pinions, of which sun wheels one is connected to the indicating mechanism and the other is provided with means by which it is intermittently held stationary and periodically released, and means for returning the first sun wheel to zero position at each release of the second sun wheel.

1,378,429. PROCESS AND APPARATUS FOR MIXING GASES. FREDERICK A. STAMPS, Niagara Falls, N. Y., assignor to Oldbury Electro-Chemical Company, Harrison, N. Y., a Corporation of New York. Filed Feb. 5, 1918. Serial No. 215,562. 15 Claims. (Cl. 48—185.)



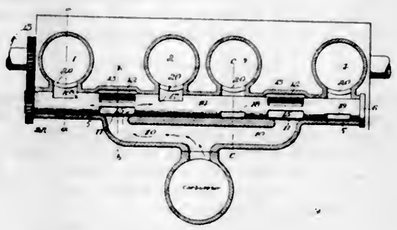
1. The process in mixing two gases, which comprises causing each of the gases to flow under pressure in a separate column of fixed cross-sectional area with a normal predetermined ratio between the velocities of flow of said gases in their respective columns, and causing a departure from said predetermined ratio to vary the velocity of flow of one of said gases and thereby restore the said normal ratio of flow.

1,378,430. ROTARY ENGINE. GEORGE H. STEARNS, Roxbury, Mass. Filed June 11, 1918, Serial No. 239,462. Renewed Oct. 14, 1920. Serial No. 417,017. 17 Claims. (Cl. 123—16.)



1. In a rotary engine the combination, with the chamber and a rotary member mounted eccentrically within it, of a piston adapted to slide through the rotary member on a diameter thereof and having flexible edges pressing obliquely against the walls of the chamber.

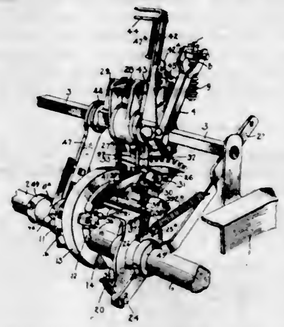
1,378,431. COMBINED MANIFOLD AND ROTARY DISTRIBUTING-VALVE FOR INTERNAL-COMBUSTION ENGINES. JOHN S. TAYLOR, Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America, a Corporation of Delaware. Filed Apr. 24, 1913, Serial No. 763,467. Renewed Aug. 27, 1919. Serial No. 320,308. 2 Claims. (Cl. 123—59.)



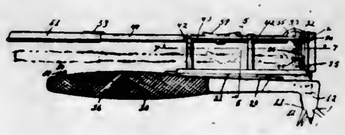
1. In an internal combustion engine, the combination with the cylinders in which operate the pistons, the cylinders being closed at their ends opposite those constituting the explosion chambers, and each having an inlet fuel port near the said closed end, of a valve device through which the fuel mixture for the engine passes in one direction only, comprising a casing united with the cylinders and having passages communicating with the said inlet ports to the cylinders, a valve mounted in the said casing and consisting of a tube open from end to end and mounted in the said casing, the tube having outlet ports communicating with the passages to the cylinders and with inlet ports, supply passages communicating with the said inlet ports through which fuel is adapted to enter, and means for turning the valve in its casing.

1,378,432. POWER MECHANISM FOR OPERATING GROUND-BREAKING DEVICES. ELMER E. TOWLE, Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio, a Corporation of Ohio. Filed Apr. 9, 1919. Serial No. 288,769. 13 Claims. (Cl. 97—89.)

1. In a machine of the character described, a ground breaking device, a rock shaft connected with said device, power operated mechanism for rocking said shaft to raise said device to a uniform height at each raising movement thereof and for applying pressure thereto in the lowered position thereof, and means for varying the rocking movement of said shaft without varying the extent of movement of said power mechanism.

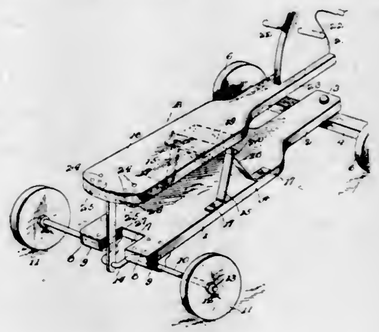


1,378,433. DENTAL INSTRUMENT. FRANK VOGELZANG, Rock Valley, Iowa. Filed Aug. 6, 1920. Serial No. 401,700. 3 Claims. (Cl. 32—34.)



3. In a device of the class described, a tooth engaging member having a frame fixed thereto, an auxiliary frame slidably mounted thereon, a cutting blade on said auxiliary frame and capable of vertical movement relative to said auxiliary frame and adapted to slide therewith, means for yieldingly holding said blade at one limit of its vertical movement, and means for moving the blade to cutting position.

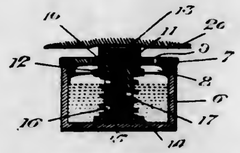
1,378,434. TOY VEHICLE. ARTHUR A. WESTER, Boone, Iowa. Filed Apr. 29, 1920. Serial No. 377,692. 1 Claim. (Cl. 208—33.)



In a toy vehicle, a running gear comprising a flat frame member having a reduced forward portion, a front axle provided with wheels, said axle being pivoted to the extreme forward end of the reduced portion whereby a short turning radius is secured, a rear axle carrying wheels and having a crank, the frame member being cut in from the rear end to permit movement of the crank of said axle, inverted Y-shaped brackets carried by said frame member

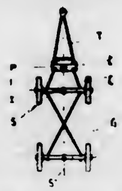
intermediate the axles and on opposite sides of the frame member, a passenger carrying body member also having a reduced forward portion and co-extensive with the frame member, said body member carrying a centrally disposed bearing, an axle carried in said brackets and said bearing, bearings at the rear extremity of said body member and receiving an axle, and a connecting rod carried by said last-mentioned axle and connected with the crank of the rear axle.

1,378,435. COLOR-PRINTING DEVICE. JOHN A. WHITTINGTON, Atlanta, Ga. Filed June 11, 1920. Serial No. 388,133. 6 Claims. (Cl. 101—201.)



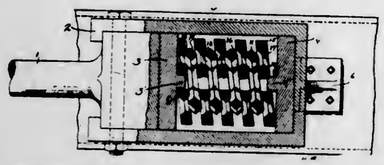
1. A color printing device comprising a reservoir having a top, ink applying means leading from within the reservoir through the top, a yieldable shield movably mounted within said top to force a soft inking roller away from said means.

1,378,436. STEERING-GEAR FOR VEHICLES USED AS TRAILERS. ACHILLE ARATO, Turin, Italy, assignor to Ferruccio Botta, Turin, Italy. Filed Mar. 12, 1919. Serial No. 282,208. 3 Claims. (Cl. 280—33.5.)



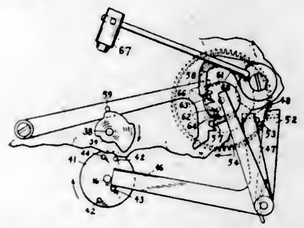
3. In a trailer comprising pivoted parts each carrying a pair of wheels, the combination of a member pivoted to swing at the head of the trailer around a vertical axis, means for connecting said member with a pulling element, ties each connected with said swinging member and the adjacent wheel carrying part at points located at the same side of and at different distances from the respective centers of rotation to cause the front wheels of the trailer to substantially follow in the tracks of the rear wheels of the pulling element, and cross ties interconnecting the front and rear wheel carrying parts to transmit the deviations of the front wheel carrying parts to the rear wheel carrying parts in reverse direction and under the same reduced ratio to cause the rear wheels to substantially follow in the tracks of the front wheels.

1,378,437. DRAFT APPLIANCE. JOHN AVELINE, Scranton, Pa. Filed Jan. 29, 1920. Serial No. 354,809. 4 Claims. (Cl. 213—64.)



1. A draft rig comprising in combination spaced followers and a yoke embracing the same, inner and outer helical springs under tension between the followers and having the proximate surfaces of their corresponding convolutions oppositely beveled, and an intermediate sinuate spring helicoidally wound, shorter than the inner and outer springs and stopping short of engagement with the followers and having the inner and outer surfaces of its convolutions oppositely beveled, complementarily to the bevels of the inner and outer springs.

1,378,438. SHIP'S-BELLS CLOCK. SAMUEL W. BALCH, Montclair, N. J. Original application filed June 29, 1918, Serial No. 242,564. Divided and this application filed May 19, 1919. Serial No. 298,208. 3 Claims. (Cl. 58—8.)

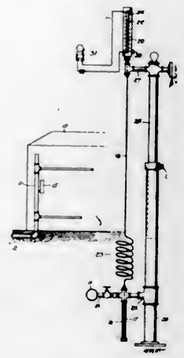


1. A striking clock having a snail, a rack, a gathering pin for the rack, a hammer, a strike train, a rigidly connected rack-detent and hammer-stop having two positions under the end of the rack in one of which the hammer-stop obstructs the raised hammer, means for releasing the strike train, and means operative following alternate releasing of the strike train for arresting the rack-detent and hammer-stop at the first of the two positions under the end of the rack, substantially as described.

1,378,439. COATING FERROUS METALS. CHARLES BASKERVILLE, New York, N. Y. Filed June 25, 1914. Serial No. 847,323. 9 Claims. (Cl. 91—68.1.)

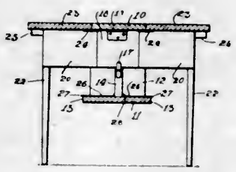
1. A method of coating ferrous metals which comprises coating said metals first with metallic antimony in a substantially pure condition, and thereafter coating with a material containing metallic lead.

1,378,440. LIQUID SERVICE-GAGE. RUDOLPH E. BRUCKNER, New York, N. Y. Filed Oct. 2, 1919. Serial No. 327,930. 4 Claims. (Cl. 73—54.)



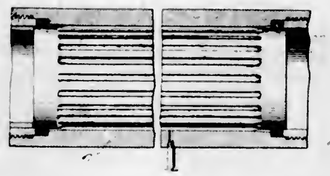
4. A gage for indicating the level of liquid in a supply tank, said gage comprising a receptacle for mercury, means for connecting said receptacle to a pipe leading from said tank, a vertically extensible tube leading upwardly from the interior of said receptacle for carrying a column of mercury, means at the upper end of said tube for permitting the height of the mercury column therein to be determined, said means being adjustable vertically relatively to said receptacle, whereby the distance between the two may be varied to suit different conditions.

1,378,441. CAMP TABLE AND BOX. WILLIAM J. BURKE, San Francisco, Calif. Filed Sept. 29, 1919. Serial No. 327,255. 5 Claims. (Cl. 190—12.)



1. A folding table including a rigid frame, opposed leaves hinged to the frame, said leaves coöperating with the rigid frame to form a box structure when in their folded position, opposed blocks hinged to the rigid frame, supporting strips hinged to the said blocks and adapted to coöperate with the said leaves to support them in their unfolded position, and leg members secured to the said supporting strips and adapted to support the said strips in their unfolded position.

1,378,442. PROCESS OF CORRUGATING CYLINDRICAL BODIES. WILLIAM E. CHALFANT, Glenside, Pa., assignor to Lanston Monotype Machine Company, Philadelphia, Pa., a Corporation of Virginia. Filed Nov. 16, 1917. Serial No. 202,327. 5 Claims. (Cl. 153—70.)

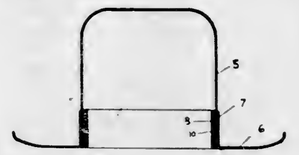


2. The process of corrugating a cylindrical body which consists in supporting said body on the interior at points spaced from each other a distance greater than the distance between desired adjacent corrugations, then applying external pressure and forcing the cylindrical wall inwardly between the points of support, then supporting the inwardly deflected portions of said wall, and finally applying external pressure and forcing the previously supported portions of the wall inwardly.

1,378,443. PROCESS FOR DYEING CELLULOSE ACETATES. RENÉ CLAVEL, Basel-Augst, Switzerland. Filed Jan. 5, 1921. Serial No. 435,225. 4 Claims. (Cl. 8—5.)

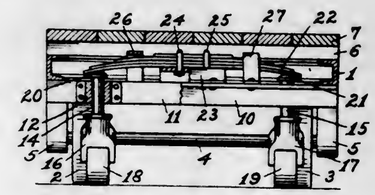
1. The herein described process for dyeing cellulose acetates, consisting in carrying out the dyeing operation with a dyestuff-solution, which contains a weak acid and at least one soluble chlorid.

1,378,444. HAT. NELSON W. COLGROVE, Providence, R. I. Filed Sept. 18, 1920. Serial No. 411,305. 3 Claims. (Cl. 2—32.)



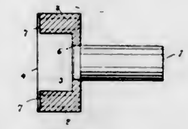
1. In a hat, a body, a sweat band, a strip of waterproof material embracing the inner face of the band comprising integral flaps overlapping the outer face of the band and in contact with said body, and stitches engaging the body solely through the sweat band and one flap.

1,378,445. TRAILER-TRUCK FOR INDUSTRIAL PURPOSES. WILLIAM E. FERRIS, Cleveland, Ohio, assignor to The Ohio Trailer Company, a Corporation of Ohio. Filed July 14, 1919. Serial No. 310,620. 5 Claims. (Cl. 280—51.)



5. In a trailer truck, the combination of a frame, wheels and casters for supporting the frame, the casters having shanks, the shanks of the casters being loosely mounted in the frame to permit rotation and vertical movement thereof, a leaf spring fixed at its center to the frame and having downwardly curved free ends, and the free ends of the leaf spring resting upon said shanks of the casters, substantially as described.

1,378,446. CONNECTION FOR SHAFTS OR JOURNALS. GOTTLOB FUEGEL and HERMAN SCHMID, Brooklyn, N. Y., assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Dec. 27, 1918. Serial No. 268,552. 2 Claims. (Cl. 287—53.)

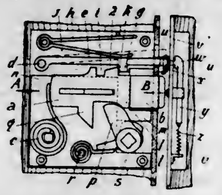


1. The combination of a cup-shaped casing having openings in its bottom, said openings being counter-bored adjacent the inner face of said bottom, and a shaft provided with projections on one end, said projections entering said openings from the outer face of said bottom, and being expanded to engage the counter-bored portions of said openings to secure the casing and shaft together.

1,378,447. AUTOMATIC LOCKING DEVICE. CONRAD GEBHARD, Munich, Germany, assignor to "Asfag" Aktiengesellschaft, Glarus, Switzerland. Filed Aug. 12, 1920. Serial No. 403,163. 2 Claims. (Cl. 292—335.)

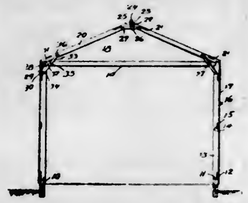
1. An automatic locking device, comprising a spring actuated bolt having notches formed therein, a keeper, a

spring actuated locking lever adapted to engage said notches the end of said lever projecting beyond the end cover of the lock in the direction of the keeper, a spring urged tappet pivotally mounted on the base plate of the lock and adapted to be turned to cause a withdrawal of the bolt from the keeper, a releasing



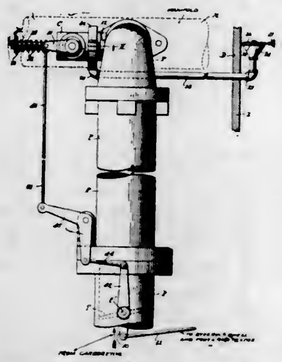
member interposed between the tappet and the lever for releasing the latter upon a turning of the tappet, and a member arranged in the keeper adapted to be brought into yielding engagement with said projecting end of the lever when the door is being opened and acting as a fixed guiding face which engages the end of the locking lever and releases the bolt when the door is being shut.

1,378,448. SECTIONAL BUILDING. ROYCE W. GILBERT, Clinton, Iowa. Filed July 11, 1919. Serial No. 310,193. 5 Claims. (Cl. 20—2.)



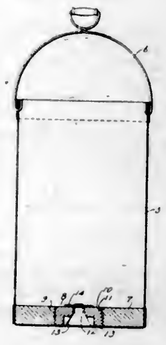
5. In a sectional building, a collapsible bent consisting of a plurality of ties and a plurality of members pivoted together by said ties and each movable about its pivot so that said members when in collapsed form all lie parallel and have their free ends located between said ties.

1,378,449. COMBINED PRIMER AND AUTOMATIC AUXILIARY AIR-VALVE FOR INTERNAL-COMBUSTION ENGINES. PAUL H. GRIMM, FRANK L. COCKS, and OSCAR C. DURYEA, Glen Cove, N. Y. Filed Sept. 17, 1918. Serial No. 254,398. 2 Claims. (Cl. 123—124.)



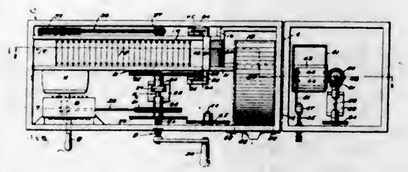
2. The combination with a manifold of an internal combustion engine, a throttle valve controlling the gas vapor to said manifold, of a combined primer and auxiliary air supply device comprising a casing provided with a conical valve seat and attachable to and flaring outwardly toward the interior of said manifold, said casing having an annular chamber in communication with an air and oil inlet and a series of radial branch conduits arranged within and communicating with the interior of said annular chamber, each of said radial branch conduits provided with a longitudinal passageway having an outlet in said conical valve seat and communicating with the interior of the manifold, a conical valve having its axis disposed parallel to said longitudinal passageways and its conical section flaring outwardly toward the interior of the manifold and constructed, arranged and coöperating with said outlets and valve seat as to be adapted to control, atomize and scatter the auxiliary air or mixture of air and oil passing out of said outlets and thoroughly intermingle the same with the vapor in said manifold, and operating means for said conical valve arranged for connection to the operating means for the throttle valve controlling the volume of vapor in said supply manifold.

1,378,450. WELL-BUCKET. TOM HARPER, Columbia, Miss. Filed May 21, 1920. Serial No. 383,270. 3 Claims. (Cl. 294—68.)



1. In a well bucket, a cylindrical body having its upper end open and provided with a central opening in its bottom, the opening having interior screw threads, a valve seat threaded into the opening, and a flap valve secured to the inner face of the valve seat.

1,378,451. VEGETABLE-CUTTING MACHINE. JOHN HARTMAN, Milwaukee, Wis. Filed July 27, 1920. Serial No. 399,325. 4 Claims. (Cl. 146—11.)

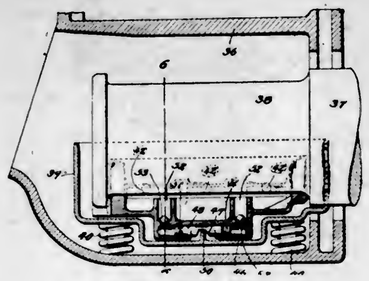


1. A machine of the class described comprising a casing and a cover therefor, cutting means carried by the cover, and means within the casing and adapted to operate said cutting means when the cover is closed.

1,378,452. AUTOMATIC JOURNAL-LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Aug. 15, 1918. Serial No. 250,045. 8 Claims. (Cl. 64—24.)

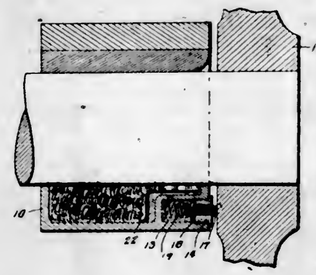
1. The combination with a journal box, of a container provided with a liquid lubricant compartment and a separate waste compartment, which container is yieldingly

supported beneath an axle journal, a pump within said container for delivering liquid lubricant from the liquid lubricant compartment to the waste compartment, and



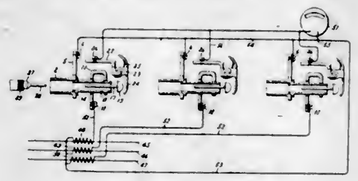
means for actuating said pump, the operation of which pump actuating means is dependent upon the longitudinal movement of the journal with respect to the container.

1,378,453. HUB-LUBRICATING DEVICE. JAMES J. HENNESSY, New York, N. Y. Filed Nov. 6, 1919. Serial No. 336,019. 6 Claims. (Cl. 64—24.)



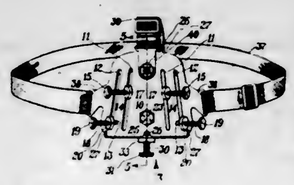
1. The combination with a journal box having a pocket which receives liquid lubricant from the chamber within the journal box, of a spring pressed member arranged for operation within said pocket and extending to the exterior of the journal box, and there being a lubricant duct formed through said member.

1,378,454. ELECTRIC SWITCH. CHARLES T. HENTSCHEL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 25, 1917. Serial No. 182,780. 14 Claims. (Cl. 175—183.)



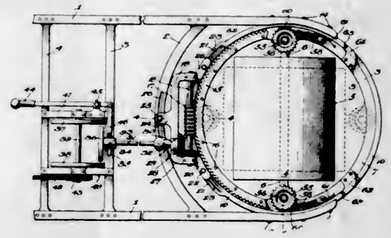
1. The combination with a plurality of conductors, transformers operatively related thereto, a measuring instrument in common to said transformers, and means for connecting said common instrument in the circuit of any transformer and simultaneously testing said instrument.

1,378,455. NOSE-SHAPER. JOHN HILGERS, Binghamton, N. Y. Filed Aug. 4, 1920. Serial No. 401,133. 15 Claims. (Cl. 128—76.)



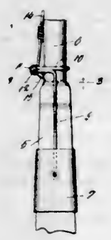
1. In a nose shaper, in combination, a non-resilient frame of the approximate configuration of a nose, a series of slots within the frame, a series of threaded members within the slots slidable therethrough and capable of inward movement therethrough, means for locking the threaded members in non-slidable predetermined positions within the slots and means for maintaining the frame in fixed position upon a nose.

1,378,456. STEERING MECHANISM. REUBEN F. HOFFMAN, Hamilton, Ohio. Filed Jan. 3, 1920. Serial No. 349,284. 20 Claims. (Cl. 180—26.)



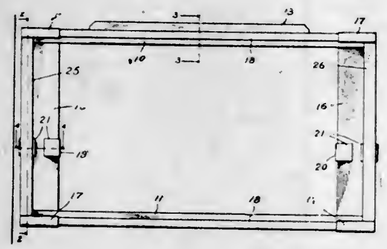
1. A steering ground wheel, a steering member for the ground wheel, ground wheel drive means, and a power driven member normally engaging the said steering member and adapted to clear the same and engage the said ground wheel drive means.

1,378,457. BROOM-PROTECTOR. JAMES HOLLAND and WILLIAM G. WELCH, Gonic, N. H. Filed Dec. 8, 1920. Serial No. 429,119. 2 Claims. (Cl. 15—23.)



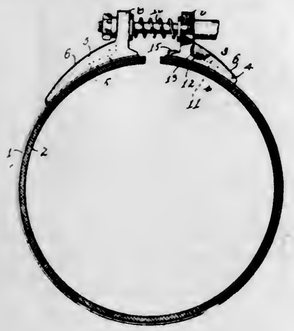
1. A broom protector including a broom head embracing member equipped with upstanding arms terminating in a U-shaped yoke which embraces the broom handle, a shaft extending through said arms and a locking lever pivotally mounted on said shaft to clamp the handle in said yoke.

1,378,458. DISPLAY-FRAME. ISAAC E. HOLT, Seattle, Wash. Filed Feb. 16, 1921. Serial No. 445,525. 2 Claims. (Cl. 40—155.)



1. A display frame comprising upper and lower channel bars, vertical spacing members adapted to retain said channel bars in parallel spaced apart relation, the ends of said vertical spacing members being bent inwardly to fit around said channel bars and adapted to be slidably moved thereon, said channel bars being adapted to receive and retain the edges of a display card, and vertical partition bars adapted to fit over said display card with their ends resting in said channel bars.

1,378,459. TRANSMISSION-BAND. HENRY FRED HONS, Jr., San Francisco, Calif. Filed Mar. 15, 1920. Serial No. 365,984. 1 Claim. (Cl. 188—249.)

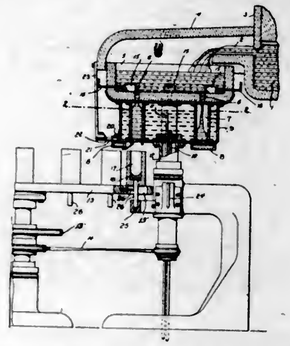


A transmission band having a removable straining ear comprising a relatively short base portion constructed with upwardly extending lugs, side flanges increasing in height toward and merging into said lugs, one of said flanges being notched, an opening in the base portion of said straining ear made to receive a stud on the band, an attaching pin engaging said stud at an angle to the circumference of the band and made to diagonally overlie the base portion of the straining ear with one end thereof lying adjacent said notch in the flange, and a groove in the base portion arranged to receive said pin substantially throughout its length.

1,378,460. DEVICE FOR OBTAINING QUANTITIES OF MOLTEN GLASS. ERNEST HOPKINSON, New York, N. Y. Continuation of application Serial No. 42,702, filed July 30, 1915. This application filed Oct. 25, 1918. Serial No. 259,612. 10 Claims. (Cl. 49—55.)

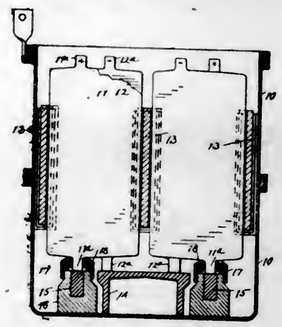
1. In combination with a molten glass container, an arcuately movable receptacle supplied by said container, a plurality of compartments underneath said receptacle for receiving molten glass flowing therefrom, the said compartments being movable about a common axis, and means for automatically opening and closing the bottoms of the compartments in succession.

9. In a device of the class described, a source of glass supply, an auxiliary receptacle fed from said source and adapted to maintain a reserve supply of the molten glass,



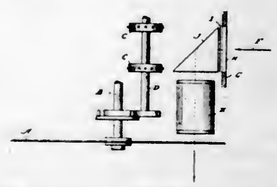
means for rotating said receptacle, a plurality of compartments connected with and fed from said receptacle, and means for opening and closing the bottoms of said compartments.

1,378,461. METHOD AND MEANS FOR MAKING ELECTRICAL CONNECTIONS. HARRY CROSS HUBBELL, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed July 12, 1920. Serial No. 395,672. 25 Claims. (Cl. 204—29.)



1. The method of maintaining good electrical contact between conductors in an electrolyte which comprises maintaining the contacting surfaces of the conductors under cathode conditions.

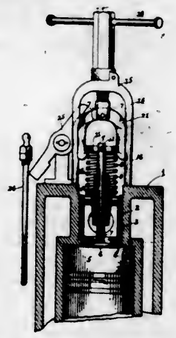
1,378,462. MOTION-PICTURE APPARATUS. CHARLES FRANCIS JENKINS, Washington, D. C., assignor to The Graphoscope Company, New York, N. Y., a Corporation of Delaware. Filed May 19, 1919, Serial No. 298,264. Renewed Apr. 5, 1921. Serial No. 458,697. 2 Claims. (Cl. 88—18.3.)



1. The combination with a driving shaft carrying a shutter, a parallel shaft carrying a film feeding drum,

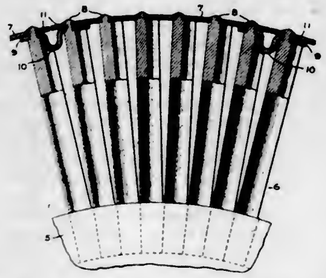
and an adjacent plate parallel to the shafts and having an exposure opening across which film is fed, of two mutually engaging gears on the shafts, respectively, a projecting lens lying between said opening and the shutter, and means for deflecting to the lens light coming through the opening.

1,378,463. VALVE-REMOVER. ULYSSES E. G. JOHNSON, Pittsfield, Mass. Filed Feb. 26, 1920. Serial No. 361,428. 7 Claims. (Cl. 29—86.3.)



1. In a valve removing tool, the combination with a yoke having supporting legs, of a pair of jaws supported in said yoke, said jaws having pivotal and vertical movement, means for constraining said jaws against rotational movement, said restraining means acting to confine said jaws in their pivotal movement to a vertical plane, which makes but a slight angle with the vertical plane of the legs of the yoke, whereby said jaws may open past said legs but in close proximity thereto.

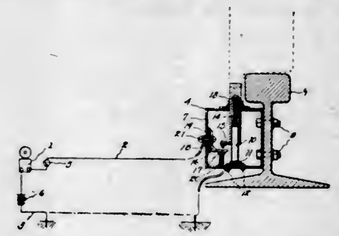
1,378,464. ELASTIC-FLUID TURBINE. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 29, 1920. Serial No. 420,502. 3 Claims. (Cl. 253—77.)



1. In an elastic fluid turbine, the combination with a ring of buckets, and a sectional cover tying them together into groups, of means forming flexible connections between adjacent groups, said means being located directly beneath the adjacent ends of bucket cover sections.

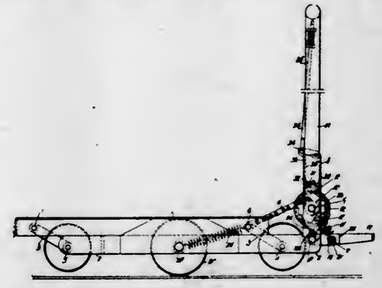
1,378,465. STREET-CAR ENUNCIATOR. ELWOOD A. KEAN and BENJAMIN L. NICHOLSON, Tacoma, Wash. Filed Mar. 15, 1920. Serial No. 366,067. 2 Claims. (Cl. 246—246.)

1. The combination with an electrically operated signaling device, a source of electricity, and a railway rail of a circuit closing device comprising a housing supported from the rail web, a post mounted vertically within the housing, a sleeve, closed at its upper end, slidably mounted on the post and extending from said housing into position to be depressed by the wheels of cars moving along the rail, a spring interposed within the sleeve to retain the same normally extended; said sleeve having a contact arm extending laterally therefrom at its lower



end, a yieldable contact member mounted within the housing engageable by the said arm when the sleeve is depressed and means electrically connecting the contact arm and contact member engaged thereby with the signaling device through the source of electricity.

1,378,466. LIFTING-TRUCK. WALTER EDWARD KIMBER, London, England. Filed May 14, 1920. Serial No. 381,397. 4 Claims. (Cl. 254—4.)



1. A lifting truck comprising a truck frame, a movable lifting frame connected by links thereto, a lever pivoted to the truck frame, a ratchet wheel on the axle of the lever, a pawl carried by said lever and engaging said ratchet wheel on the axle of the lever, a drum mounted on the axle of said lever, a cable windable on said drum and connected with said lifting frame, a second pawl mounted on said truck frame and also engaging said ratchet wheel, a brake mounted on the axle of said ratchet wheel and means for operating said brake and said second pawl simultaneously.

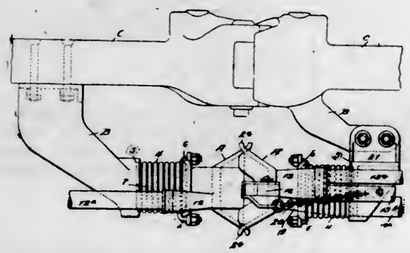
1,378,467. LAMP-SOCKET. CHARLES J. KLEIN, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 9, 1915. Serial No. 1,337. 10 Claims. (Cl. 173—362.)



1. In a lamp socket, the combination with a substantially cylindrical inclosing shell contracted at one end,

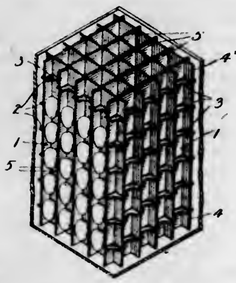
of a lamp socket fitting insertible in said shell through the open end thereof, one of said elements having a resilient catch to coöperate with a shoulder on the other for locking of said elements in assembled relation and against relative rotation and said catch having a part adjacent to the open end of said shell whereby it may be actuated to release said fitting.

1,378,468. AUTOMATIC PIPE-COUPLING. GEORGE N. KNAPP, St. Louis, Mo. Filed Dec. 10, 1919. Serial No. 343,867. 7 Claims. (Cl. 285—24.)



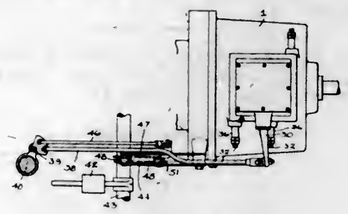
1. An automatic pipe coupling, consisting of two complemental parts, each of which comprises a male member and a female member arranged in the same horizontal plane with the male member in advance of the female member, the exterior of said male member being of substantially frusto-pyramidal form, a spring-pressed latch mounted on each of said female members in an opening in the outer side wall of same, and laterally projecting lugs on the outer side walls of said male members that are adapted to enter said openings and be engaged by said latches when the complemental parts of the coupling come together.

1,378,469. EGG-PACKING. MORRIS KOPPELMAN, Brooklyn, N. Y., assignor of one-half to Leon Mann, New York, N. Y. Filed July 6, 1920. Serial No. 394,066. 9 Claims. (Cl. 217—35.)



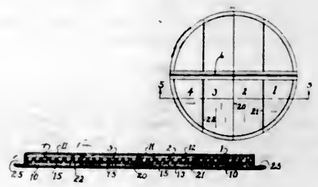
1. An egg package comprising a plurality of egg receiving cells adapted to be superposed one upon another, said cells having vertical side walls inclosing an egg receiving space, a sheet of material interposed between upper and lower cells having an opening therein of smaller diameter than the greatest lateral diameter of the egg to be placed therein, but of materially greater diameter than the smallest lateral diameter of the egg, whereby an egg placed in said opening extends therethrough and into two superposed cells, and a sufficient distance to bring the side surfaces of the egg which are at an angle greater than 45 degrees to the plane of the sheet in contact with the edges of the opening.

1,378,470. TRANSMISSION MECHANISM. CYRUS B. KURTZ, Lakewood, Ohio. Filed Nov. 21, 1917. Serial No. 203,102. 46 Claims. (Cl. 74—34.)



1. In a transmission device, the combination of driving and driven gears, a clutch connection between the same normally in engagement, a plurality of gear means between said driving and driven gears, said gear means including permanently meshed gears but being normally inoperative, a clutch lever for disengaging said clutch, yielding means adapted to actuate said lever to normally position the same and engage said clutch, and means adapted to operate one of said gear means upon the normal positioning of said clutch lever, said means being adapted to simultaneously render said clutch connection inoperative.

1,378,471. TABLE-MAT. CHARLES LAIDMAN, Cleveland, Ohio. Filed May 29, 1920. Serial No. 385,124. 1 Claim. (Cl. 65—53.)

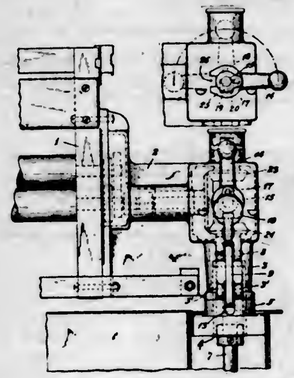


A table mat comprising a plurality of heat insulating sections, each section comprising a corrugated inner member and heat insulating members on each side of the corrugated member, and a flexible covering sheet disposed upon each heat insulating member, said covering sheets being arranged to provide hinges, which are defined by a flat portion of the sheet extending across the joint and a portion of the opposite sheet folded to extend between the adjoining edges of the sections, the upper and lower covering sheets extending beyond the corrugated filler and secured together, each hinge opening in a direction opposite to the direction of the adjoining hinge, whereby the mat may be compactly folded.

1,378,472. INTERLOCK FOR SWINGING POWER-DRIVEN WRINGERS. JOSEPH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 4, 1920. Serial No. 414,612. 1 Claim. (Cl. 68—32.)

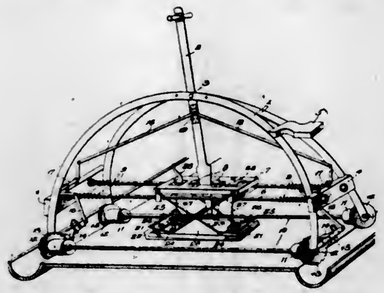
In a wringer, the combination of a power-driven shaft, a base-plate having a plurality of recesses, a support mounted on said base-plate so as to rotate about the axis of said shaft, a wringer mechanism carried by said support, a reversing mechanism contained in said support and having an actuating shaft projecting horizontally therefrom, a handle mounted upon said actuating shaft, and provided with a notch, a lever mounted on said support in a vertical plane passing through the axis of said shaft,

said lever having a finger on its lower end adapted to enter said recesses in the base-plate carrying said support



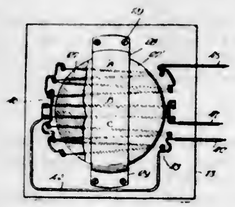
and as to which base-plate said support is revoluble and being provided adjacent to its upper end with a projection adapted to enter said notch.

1,378,473. BOWLING-ALLEY-RESURFACING DEVICE. LEO N. LAREAU, Pawtucket, R. I., and OMER J. RAINVILLE, South Attleboro, Mass. Filed June 7, 1920. Serial No. 386,984. 14 Claims. (Cl. 51—175.)



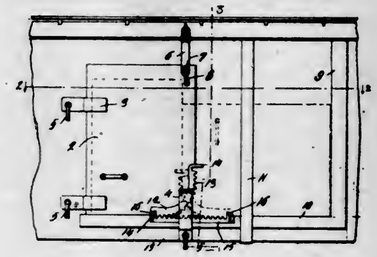
3. In a bowling alley resurfacer, a frame, a head reciprocating on the frame, means to reciprocate the head, means to progressively move the frame step by step lengthwise of the alley, and means to actuate the last named means by and through said means to reciprocate the head.

1,378,474. SAND-BATH. TIODOLF LIDBERG, Chicago, Ill., assignor to Chicago Surgical and Electrical Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,794. 2 Claims. (Cl. 219—43.)



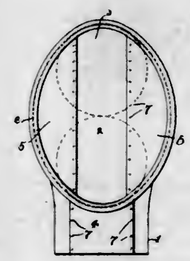
1. A heating device of the character described having a box; a bowl therein with its rim supported by the top of the box; a series of groups of heating coils attached to the convex surface of the bowl having their terminals within the box and a rotatable switch mounted on one side of the box arranged to connect the coils to vary their heat producing effect at different points in the rotation of the switch element.

1,378,475. CAR-DOOR. STEPHEN H. LOVETT, Miles City, Mont. Filed Sept. 4, 1919. Serial No. 321,521. 1 Claim. (Cl. 20—21.)



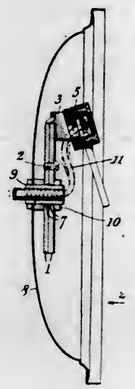
In combination with a car body having an opening, a door mounted upon said body and provided with a rounded lower corner having a curved rack member terminating in laterally extending fingers at the respective ends thereof for constituting a means for limiting the swinging movement of the door, a flat rack bar adapted to mesh with the curved rack bar carried by the door, a detachable strap lock engaging the upper end of the door for holding the same in a closed position, spaced spring members engaging the door when in the closed position for holding the same firmly upon the car, and a spring retaining member carried by said car and overhanging the lower curved corner of the door for firmly retaining the rack carried by the door in engagement with the rack carried by the car.

1,378,476. VENTILATOR. JOHN MCGEORGE, Lakewood, Ohio, assignor to The Ohio Body & Blower Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 4, 1918. Serial No. 220,170. 7 Claims. (Cl. 98—4.)



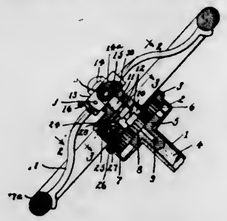
6. A ventilator cowl comprising a lower portion substantially circular in cross-section and a longitudinally curved and flared upper portion extending therefrom, said cowl having front and back plates each of which is of constant width and longitudinally curved and each of which is transversely curved on a radius substantially equal to the radius of the lower portion of said cowl, and intermediate longitudinally and transversely curved plates connecting the front and back plates, the said plates providing at their upper ends an elliptical mouth the major axis whereof is substantially twice the diameter of the lower portion of the cowl and the minor axis whereof is substantially one and one-half times such diameter.

1,378,477. ELECTRICAL FITTING CONNECTION. JOHN ANDREW MCKAY, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,686. 6 Claims. (Cl. 173—330.)



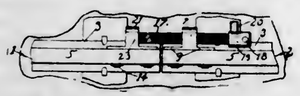
3. An electrical fitting comprising: a mounting for a terminal member consisting of two superposed and pivotally connected jaws, an angularly extending lug carried by each jaw, said lugs having bearings that are in alinement with each other when the jaws are swung into a given position and said jaws having openings that are in register when the bearings are brought into alinement, a support extending through the registered openings, means for receiving the jaws on the support and a terminal member pivotally supported in said bearings.

1,378,478. STEERING-WHEEL. THOMAS D. MCMULLEN, East Cleveland, Ohio. Filed Dec. 9, 1919. Serial No. 348,512. 5 Claims. (Cl. 74—33.)



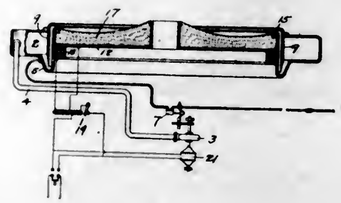
1. Steering mechanism for motor vehicles, comprising a steering shaft, a driving shaft, planetary gearing operatively connecting said shafts, a steering wheel pivoted on a transverse axis, and means whereby tilting movement of said wheel disconnects said planetary gearing.

1,378,479. RAILWAY-JOINT EXPANSION-JACK. JAMES E. MCNEIL, Los Angeles, Calif. Filed Dec. 27, 1920. Serial No. 433,264. 3 Claims. (Cl. 238—151.)



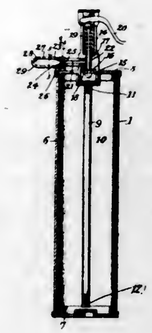
3. The combination with a thrust nut, a thrust block having a socket in one face, means to secure said thrust nut and thrust block to the sides of abutting ends of the T-rails; and a thrust screw screwed through the nut and having a tip seated in the socket; and a detachable handle for turning the thrust screw.

1,378,480. LIQUID-FUEL BURNER. ROLAND G. MARX, Palo Alto, Calif. Filed Apr. 11, 1917. Serial No. 161,173. 4 Claims. (Cl. 158—28.)



1. A liquid fuel burner, comprising a stationary air chamber having a discharge aperture and a depending portion forming a trough, a blower for forcing air into said chamber, means for introducing fuel under pressure into said trough, and a blade disposed in the chamber and spaced from the walls thereof and extending down into said trough, whereby a reverse passsage is formed within the chamber.

1,378,481. METHOD OF APPLYING LIQUID ANTISEPTICS. LEWIS KEMPTON MOBLEY, New York, N. Y. Filed July 19, 1919. Serial No. 311,947. 8 Claims. (Cl. 128—182.)



1. The method of applying liquid medicinal solutions, which consists in placing a liquid medicament in combination with a volume of carbonic acid gas sufficient to carbonate the solution to the desired degree of pressure in the reservoir chamber of a normally hermetically-sealed container, discharging a volume of the combined solution from said container under the said pressure whereby the liquid medicament is applied by action of the gas, and simultaneously with said gas-pressure discharge converting the combined solution at the point of ejection into the outer air and by the pressure action of the combined gas into a medicated carbonated spray.

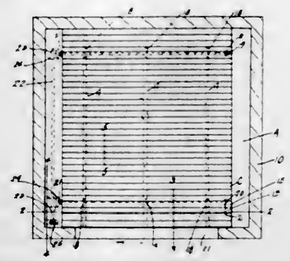
1,378,482. HORSE-HITCH. MILLARD F. MORGAN, Bailey, N. C. Filed Sept. 27, 1920. Serial No. 412,963. 1 Claim. (Cl. 119—121.)

A horse hitch comprising a worm adapted to be screwed into the ground to serve as an anchor; a cylindrical head permanently mounted at the top of the worm, said head having a rectangular recess formed in its top side; a housing rotatively mounted over said head, same having its lower edge turned inwardly below the head to form a retaining flange, and having an integral rectangular tongue depending interiorly from the top of the housing adapted to freely engage the recess in the head to lock the housing to the head against rotative movement, and having an



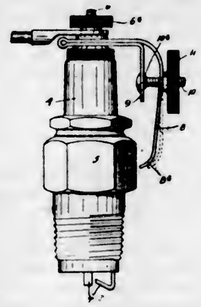
exterior integral eye formed at the top of the housing as means for securing the animal thereto; and an expanded coil spring mounted in said recess, and adapted to press said tongue upwardly clear of said recess so as to permit the normal rotative movement of the housing upon the head.

1,378,483. GARAGE-FLOOR. ANTON LAWRENCE OLSON, Welch, Minn. Filed Jan. 22, 1920. Serial No. 353,298. 4 Claims. (Cl. 20—6.)



1. In a device of the class described, the combination of a drain pit, a floor over the pit, said floor comprising a stationary draining rack and a movably disposed closure grate beneath the rack, said grate being adapted, in one position, to obstruct the openings in the rack and supplement the support afforded thereby and, in another position, to clear the openings in said draining rack.

1,378,484. SPARK-PLUG TESTER. HARRY L. OPSAHL, Minneapolis, Minn. Filed Sept. 7, 1920. Serial No. 408,443. 5 Claims. (Cl. 175—183.)

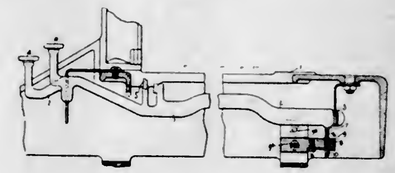


1. A spark plug tester comprising a single narrow strip of flexible material bent intermediate its ends to form a double thickness thereof and being attached to a spark plug through this double thickness, the ends thereof further bent to extend downwardly along the side of the spark plug in spaced relation, one end forming a testing electrode and the other end forming a base of resistance for adjusting said electrode toward and from the plug, and means for adjusting said electrode.

1,378,485. PROCESS OF DECOMPOSING, TRANSPOSING, DISSOLVING, OR RENDERING SOLUBLE DIFFICULTLY-SOLUBLE BODIES. HARRY D. RANKIN, San Francisco, Calif., assignor to Corrosion Extraction Company, a Corporation. Filed Apr. 24, 1916. Serial No. 93,125. 16 Claims. (Cl. 23—12.)

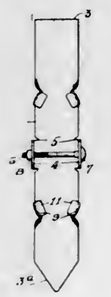
1. The process of decomposing, transforming, dissolving or rendering soluble substances heretofore considered practically insoluble, which consists in heating a mixture of the substance and an amount of acid, not materially greater than that required to thoroughly wet the substance, in a closed vessel to a sufficient temperature to boil the acid.

1,378,486. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Sept. 18, 1916. Serial No. 120,853. 18 Claims. (Cl. 197—33.)



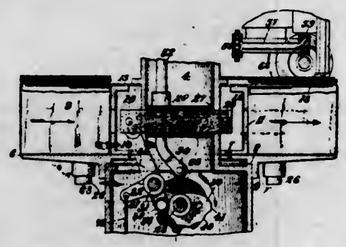
2. The combination with a plurality of springs, a plurality of adjustable tension controlling members, one for each spring, and a support for said members, of a single device for locking said members against accidental displacement while affording individual adjustments of said members to any desired extent.

1,378,487. HARROW-TOOTH BLADE. JULIAN N. SHEFFIELD, Chapin, N. Y. Filed Oct. 29, 1919. Serial No. 334,228. 5 Claims. (Cl. 55—97.)



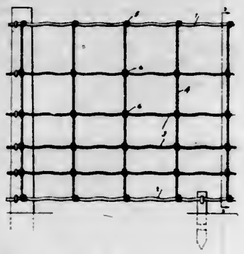
1. A harrow tooth blade comprising a blade body formed from flat stock and having a pair of rearwardly extending clamping arms, a bolt connecting said arms to draw them in firm engagement with the harrow tooth and means on the blade body for interlocking with the free end of the harrow tooth.

1,378,488. CONTAINER CLOSING AND STAPLING APPARATUS. ELLIOTT SHEPARD, Fresno, Calif. Filed Oct. 19, 1920. Serial No. 418,017. 8 Claims. (Cl. 1—15.)



1. An apparatus for stapling container flaps together when the same are folded one overlying the other, said apparatus comprising a movable support on which the container rests, means for intermittently moving the support, a clenching anvil movable with the support and over which said flaps are folded, a stapling machine into coöperation with which the container is moved on the intermittent movement of the support, means for intermittently moving the container from said support when the same is at a period of rest and longitudinally of said anvil, and means for operating said stapling machine to insert a retaining staple through the said flaps and into contact with said anvil for the clenching thereof during the interval of rest of the container in its movement longitudinally of the anvil.

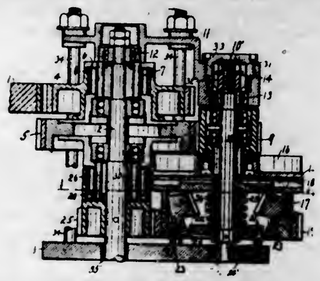
1,378,489. WIRE FENCE. WILLIAM H. SOMMER, Peoria, Ill., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, a Corporation of Ohio, and John A. Chapman, Chicago, Ill., trustees. Filed Oct. 27, 1917. Serial No. 198,782. 1 Claim. (Cl. 245—8.)



A wire fence including horizontally arranged top and bottom marginal wires and intermediate wires, the said top and bottom marginal wires being each approximately oblong in cross-section and having their widest faces arranged vertically, and vertically arranged stay-wires having end portions with each of the latter wrapped around the marginal wires with the line of wrapping at an angle to the vertical, the said end portions of the stay-wires being each tightly and closely wrapped a number of times around each of said top and bottom wires so as to form a series of wrappings each having long parallel sides and narrow ends, the ends acting to bite into the narrowed top and bottom edges of the said marginal wires.

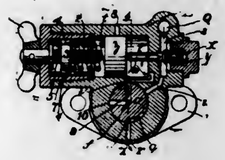
1,378,490. TRANSMISSION-GEARING. LAWRENCE B. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 25, 1915. Serial No. 10,458. 8 Claims. (Cl. 74—97.)

1. In a constant speed transmission system, a driving portion, a driven portion, a friction clutch connecting said portions, means responsive to the speed of the driven portion for varying the pressure on the engaging surfaces of said friction clutch, and automatic means for driving



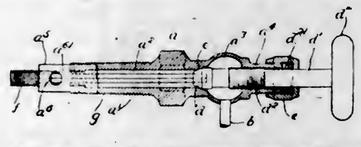
said driven portion directly from said driving portion when the ratio of speed of the driving portion to that of the driven portion reaches a predetermined value.

1,378,491. UNITARY REGULATING AND CONTROLLING MEANS FOR DRILL FEED MECHANISM. HAROLD I. STAGE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 4, 1920. Serial No. 363,164. 2 Claims. (Cl. 121—9.)



1. In fluid actuated feeding mechanism for drills having forward and reverse movement, a unitary regulating and controlling device mounted in operative relation to the feeding mechanism and comprising a valve casing having a plurality of regulating valve chambers, one of which is supplied with motive fluid under line pressure, an automatic pressure reducing valve operating in said chambers, an adjacent throttle valve chamber in said valve casing communicating with both chambers of said regulating valve, and a throttle valve in said throttle valve chamber for controlling the forward and reverse action of the feed mechanism whereby the feed mechanism may be supplied with motive fluid under line pressure directly from one regulating valve chamber or with reduced pressure from the other regulating valve chamber.

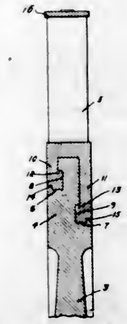
1,378,492. COCK AND VALVE. EDWARD SANFORD STANLEY and CARLETON BOSWORTH GAY, Whitman, Mass., assignors of one-fifth to Charles S. Smith, Lincoln, Mass., one-fifth to Fred H. White, Charlotte, N. C., and one-fifth to Ernest Clark, Abington, Mass. Filed July 7, 1920. Serial No. 394,527. 3 Claims. (Cl. 277—34.)



1. In a cock or valve, the combination with a body having a passage therethrough, an entrance to said passage, and a valve-seat, and a main movable valve-member in screw-threaded engagement with said body, of an auxiliary screw-threaded movable valve-member coöperating with said entrance, and a key in detachable engagement

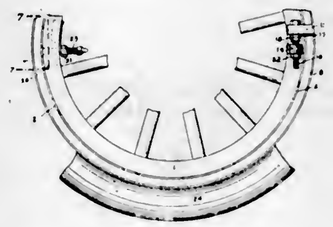
with said movable valve-members, through which the auxiliary valve-member is turned in unison with the main movable valve-member, and by means of which the auxiliary valve-member is screwed into open position as the main movable member is screwed into normal working relation with respect to its seat, and whereby the auxiliary member is screwed into closed position when said main member is screwed abnormally far from said seat, as in effecting removal thereof.

1,378,493. ELASTIC-FLUID TURBINE. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 20, 1919. Serial No. 325,197. 2 Claims. (Cl. 253—77.



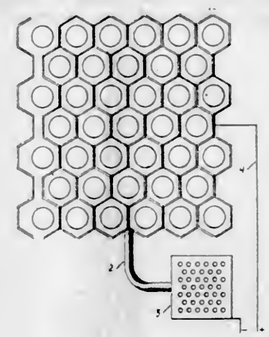
1. In a turbine, a rotor having a rim provided with grooves on opposite sides thereof, the groove on one side being located at a greater radial distance from the periphery of the rotor than that on the other side, and buckets having legs of unequal length which straddle said rim and are provided with projections fitting in said grooves.

1,378,494. DEMOUNTABLE RIM. LEONARD U. STENGER and RALPH SUMMERFIELD, Alameda, Calif. Filed May 22, 1919. Serial No. 298,863. 4 Claims. (Cl. 301—17.)



1. In combination, a wheel, a felly band, a demountable rim loosely embracing the band to allow of circumferential movement thereon, coacting means secured to the confronting faces of the band for causing the latter to tightly embrace the former when it is partially rotated, said means comprising spaced guideways having oblique surfaces and spaced guide openings each of which is formed with a plurality of oblique surfaces, means for locking the rim in tightened position, the felly of said wheel being formed with a circumferentially extending slot to slidably receive a valve stem, a cover plate hinged to the inner periphery of the felly and adapted to span said slot, said plate being formed to straddle the valve stem, and a nut on the valve stem adapted to engage said plate.

1,378,495. ELECTRIC DISPLAY. RAY F. STODDARD, Dayton, Ohio. Filed Apr. 14, 1920. Serial No. 373,777. 1 Claim. (Cl. 40—133.)



In an electric display, lamps or groups of lamps in staggered relation, equally spaced in desirable numbers and mounted in receptacles suitably fastened to a support, with desirable electrical connections for the illumination of the same, having abutting cup strips of suitable substance—preferably metal—comprising halves of hexagonally shaped cells or cups formed alternately in each side and being suitably arranged about each lamp or group of lamps and being fastened to the support in such a manner that said cells form horiozntally straight lines and two sets of oppositely diagonally straight lines at sixty degrees, substantially as described.

1,378,496. CHECK-PROTECTOR. OSCAR J. SUNDSTRAND, Rockford, Ill. Filed Jan. 3, 1921. Serial No. 434,410. 10 Claims. (Cl. 101—23.)

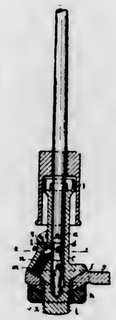


1. A check protector comprising, in combination, a pivoted roller shaped in the form of a truncated cone, a series of projecting teeth formed on the conical periphery of said roller, and means for rolling said roller upon a sheet of paper whereon said teeth describe an indented path to prevent the alteration of erasure of writing thereon.

1,378,497. SPINDLE. HOMER A. TIFFANY, Paterson, N. J. Filed May 14, 1920. Serial No. 381,298. 3 Claims. (Cl. 118—65.)

1. In combination, a spindle having a circumferential stop-shoulder, a housing structure having a bearing for the spindle and also an upwardly reaching bore terminating at said bearing and at its terminus forming a stop-shoulder relatively reverse to the first stop-shoulder, and a detent-device in said bore occupying a position where it is interposed between and is adapted to bear on

said shoulders, said bore near its said terminus preventing movement of said device from said position in a direction substantially perpendicular to the spindle and the housing structure having elastic means holding the detent-device in said position and also having a downwardly



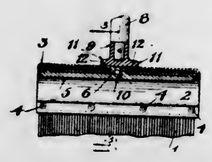
reaching aperture leading from the exterior of the housing to the terminal portion of the bore and adapted to admit an implement for displacing said device in the bore and from the terminal toward the opposite end of the bore.

1,378,498. FLOOR-COVERING. JOHN J. TOMEC, Trenton, N. J. Filed June 21, 1918. Serial No. 241,123. 1 Claim. (Cl. 154—49.)



A floor covering, consisting of a sheet of asphaltic material, a sheet of linoleum secured thereto and constituting the top of the covering and a reinforcing reticulated metallic sheet embedded in the bottom side of the first named sheet.

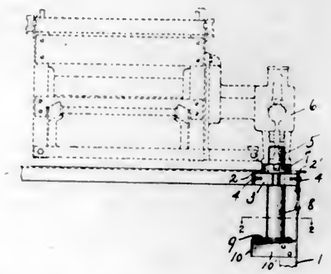
1,378,499. MOP-HOLDER. SAMSON L. TOPLITZ, New York, N. Y. Filed Jan. 25, 1921. Serial No. 439,733. 3 Claims. (Cl. 15—56.)



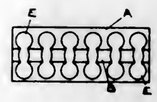
1. A device of the class described comprising a mop having a loop portion, a bar lying within said loop, said loop having a central aperture, a threaded boss on said bar extending into said aperture, and a mop handle having a threaded end adapted to enter said boss.

1,378,500. WRINGER-SUPPORT. ERNEST TWIGG, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 20, 1920. Serial No. 418,269. 1 Claim. (Cl. 68—32.)

In a machine comprising a swinging power-driven wringer, the combination of a frame, a base block secured to the upper portion of said frame for supporting the wringer, a tubular member carried by said base block and extending upwardly and downwardly therefrom, a socket secured to said frame below said base block and surrounding the lower end of said tubular member, the upper end of said tubular member being adapted to receive and act as a bearing for said swinging power-driven wringer.

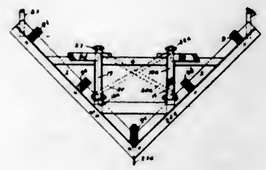


1,378,501. PIN COMPONENTS AND METHOD OF MAKING THE SAME. ASHBEL T. WALL, Providence, R. I. Filed Apr. 28, 1920. Serial No. 377,301. 2 Claims. (Cl. 29—160.6.)



2. The process of forming components consisting of plating a strip of solder upon a metal plate of less width than the plate, and cutting a blank from the plate transversely of the solder strip.

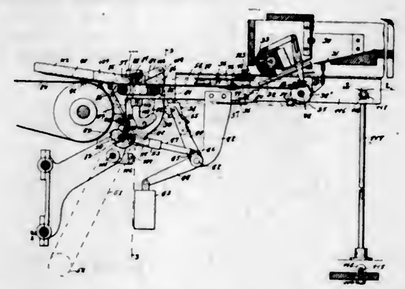
1,378,502. SNOWPLOW. WILLIAM L. WARD, Anoka, Minn. Filed Jan. 19, 1920. Serial No. 352,549. 10 Claims. (Cl. 37—5.)



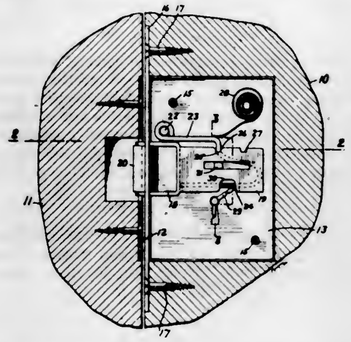
1. The combination, with a power propelled vehicle frame, of a snow plow comprising a frame having rearwardly diverging plow wings and forward and lateral push blocks mounted on said frame and having seats for the forward portion of said truck frame.

1,378,503. TRANSFER MECHANISM. GEORGE WHITE, Jersey City, N. J., assignor to Panayiotis Panoulias, Jersey City, N. J. Original application filed July 19, 1913, Serial No. 779,985. Divided and this application filed May 15, 1918. Serial No. 234,642. 24 Claims. (Cl. 193—48.)

1. The combination of a box having an outlet, a table adjacent to said box, and adapted to receive articles discharged from said outlet, chains having portions extending lengthwise of said table adjacent thereto, and cross bars connecting said chains and arranged to move lengthwise over said table and under the outlet of said box, said bars being arranged to move between the chains and the table.

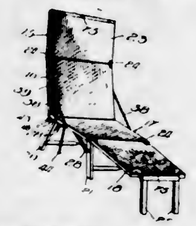


1,378,504. LOCK. ISAAC WHITE, Wilmington, Del. Filed June 30, 1920. Serial No. 392,974. 7 Claims. (Cl. 70—29.)



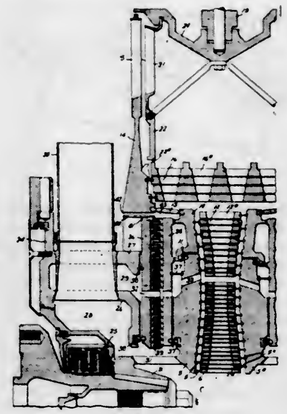
1. A lock having a casing, a sliding bolt, a spring actuated lever pivoted to the casing, a detent on said lever, a plurality of recesses in the bolt arranged to be engaged by the detent to lock the bolt in different positions, and means on the lever for maintaining the bolt under spring pressure in one direction when in one position.

1,378,505. COMBINATION CHAIR AND COT. JOHANNAH L. WHITE, Chicago, Ill. Filed Jan. 16, 1918. Serial No. 212,009. 3 Claims. (Cl. 155—45.)



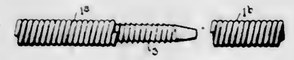
1. A portable, convertible cot and chair comprising seat, foot extension, and back sections foldable against and upon each other, the latter provided with a foldable head section, constructed with means to be adjusted as a chair and cot, and pairs of supporting legs hinged to the seat, foot, and back sections, the latter permanently hinged to the back section below the hinge between the back and head sections, said legs being permanently spaced on and adapted to be folded against the respective sections.

1,378,506. ELASTIC-FLUID TURBINE. OSKAR ANTON WIBERG, Finspong, Sweden, assignor, by mesne assignments, to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Corporation. Filed Feb. 19, 1920. Serial No. 360,009. 9 Claims. (Cl. 253—16.5.)



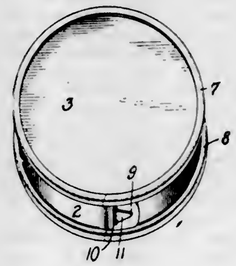
1. The combination with an elastic-fluid turbine having a rotor, of means forming an ejector for causing cooling fluid to circulate adjacent said rotor.

1,378,507. HELICAL-SPRING BELT. HENRY J. WIEGAND, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 19, 1919. Serial No. 312,031. 2 Claims. (Cl. 74—66.)



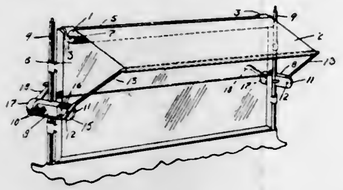
2. The combination with a helical spring belt, of a threaded rawhide member having its opposite ends threaded into adjacent portions of said belt to secure the same together.

1,378,508. BOX OR RECEPTACLE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 22, 1917. Serial No. 197,853. 4 Claims. (Cl. 220—61.)



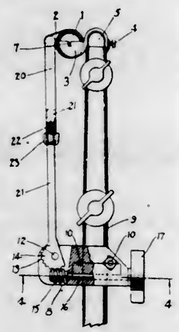
1. A knockdown box consisting of two heads and a flexible binding strip which constitutes the body of the box, the ends of the binding strip being provided with locking devices which when operative enable said strip to exert a clamping effect around said heads, said binding strip having annular seats which receive the heads and maintain them a fixed distance apart.

1,378,509. WINDSHIELD-SHADE. JOSEPH ACKERLAND, Minneapolis, Minn., assignor to George M. Seemann, Minneapolis, Minn. Filed Apr. 13, 1920. Serial No. 373,620. 5 Claims. (Cl. 296—95.)



1. In a wind-shield, a flexible shade, a spring-actuated shade-roller having one end of the shade secured thereto and normally tending to wind the shade thereon, means operatively to mount said roller adjacent the top of said wind-shield, a member connected to said shade near its opposite end to stretch the shade in forwardly extended position across the wind-shield as the shade is unrolled, a pivotal mounting for said member adjacent said wind-shield, and means bodily movable to engage said member on opposite sides of the pivot thereof whereby the shade may be held in rolled-up or extended positions.

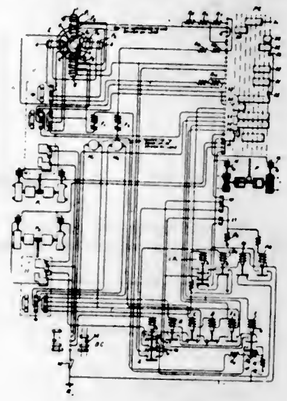
1,378,510. WINDSHIELD-SHADE. JOSEPH ACKERLAND, Minneapolis, Minn., assignor to George M. Seemann, Minneapolis, Minn. Filed July 2, 1920. Serial No. 393,546. 3 Claims. (Cl. 296—95.)



3. In a wind-shield, a flexible shade, a spring-actuated shade-roller having a fixed pivot, said shade roller having one end of the shade secured thereto and normally tending to wind the shade thereon, detachable brackets having ends fitted over the top of the wind shield and in which the roller pivot is held, a member connected to said shade near its opposite end to stretch the shade in forwardly extended position across the wind-shield as the shade is unrolled, a bearing support for said member adapted to project forwardly of the wind-shield and shaped pivotally to bear the terminal portion of said member, an element movably borne by said support and forwardly terminating adjacent said pivotal bearing, means on said member and element adjacent said pivotal bearing cooperable, upon movement of said element, to move the member to and maintain the same in a plurality of shade-extending positions.

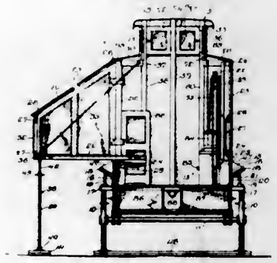
1,378,511. ELECTRICAL SYSTEM OF POWER TRANSMISSION AND REGENERATIVE BRAKING. CLINTON J. AXTELL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 12, 1919. Serial No. 303,603. 9 Claims. (Cl. 172—179.)

1. The combination in a regenerative control system of a source of supply, a dynamo electric machine comprising an armature and a series field winding, the said machine having its armature and series field winding connected in series to the source of supply and adapted to operate as a motor to drive a load or as a generator to brake a load by delivering energy to the source of supply, an exciter connected to the load and driven thereby sup-



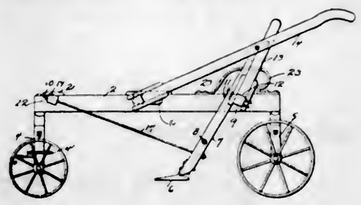
plying the excitation for the series field of said machine during generator operation, the said exciter having inherent means comprising a main field winding energized responsively to the voltage of the source and a differential winding energized responsively to the regenerated current for automatically regulating the regenerated current to produce a predetermined braking effect on said load.

1,378,512. CAMPING-VEHICLE. FOREE BAIN, La Grange, Ill., assignor to The Miami Trailer Company, a Corporation of Ohio. Filed Nov. 10, 1919. Serial No. 336,937. 6 Claims. (Cl. 296—23.)



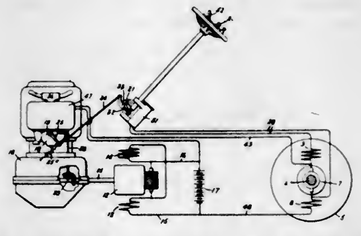
4. A camping vehicle having in combinative association a body; a bed frame hinged at its ends near one side of the body to swing outwardly into horizontal position and to swing inwardly into vertical position within said body; a side panel, the side wall of the body when closed, hinged at its upper edge to swing upwardly to provide a roof for the bed frame when the latter is extended and to swing into vertical position to close the body when the frame is in vertical position; an extension panel hinged to the bottom edge of the side panel, adapted to swing into vertical position when the panel is extended, and to swing upwardly, parallel with the side panel, when the latter is in vertical position, and two end doors hinged to swing outwardly to close the opening at the ends of the bed frame when the latter and the said side panel are extended and to swing inwardly into positions between said frame and side panel when said frame and panel occupy substantially vertical positions.

1,378,513. COTTON-CULTIVATOR. JAMES SAMUEL BARNETT, Dallas, Tex. Filed May 6, 1920. Serial No. 379,412. 1 Claim. (Cl. 97—48.)



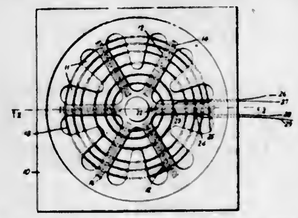
A device of the class described comprising a main frame mounted upon trucks, handle members mounted upon the frame, a stock beam and hanger supported from the handle members and a support for the stock beam mounted on the frame, said support being mounted transversely of said stock beam and positively limiting the upward movement of said beam beyond the top of said support.

1,378,514. DRIVING SYSTEM FOR AUTOMOBILES. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 9, 1918. Serial No. 221,462. 2 Claims. (Cl. 290—16.)



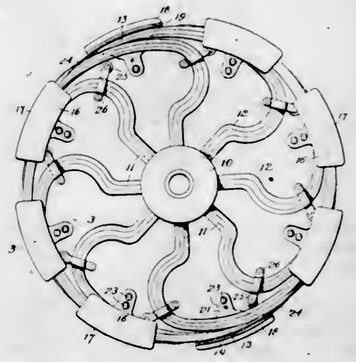
1. In a system of the character described, the combination of an engine, a generator driven thereby, a storage battery, a motor connected to the generator and battery, a conduit having two branches through which operating fluid flows in parallel to the engine, a valve in one of said branches which is normally open and is moved toward closed position when the speed of the engine increases, a valve in the other branch which is normally closed and is moved toward open position when the load increases, and a manually controlled valve in said conduit in series with and in advance of said first named valves as regards the flow therethrough.

1,378,515. ELECTRIC HEATING DEVICE. ARTHUR FRANCIS BERRY, London, England, assignor to General Electric Company, a Corporation of New York. Filed Dec. 26, 1917. Serial No. 208,782. Renewed Sept. 8, 1920. Serial No. 409,032. 6 Claims. (Cl. 219—37.)



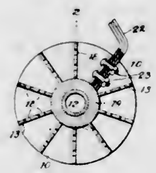
1. An electric heater comprising a bare resistance element, means carrying said element, and a metal plate provided with openings separated by ribs covering said means.

1,378,516. SPRING-WHEEL. WILLIAM J. BEISEL, Brooklyn, N. Y. Filed May 20, 1918. Serial No. 235,681. 7 Claims. (Cl. 152—29.)



2. A spring wheel for vehicles comprising a hub and a series of leaf spring spokes secured thereto having radial inner portions and being bent in the plane of the wheel at a sharp angle at points uniform distances from the hub and the outer portions from that point outwardly being bent on a gradual curve until they pass back across the radial lines of the inner portions with the outer ends tapering in thickness with the outer leaf of each spoke longest and the radius of the curve gradually increasing until the tip ends of adjacent spokes rest on each other forming a practically continuous circular rim and adapted to move radially and circumferentially on each other without breaking the continuity of the rim and tire retaining members clamped to said spokes near their outer ends and projecting beyond the margin of said rim to hold a tire in place without interferring with the relative longitudinal and radial movement.

1,378,517. WHEEL-HUB. WILLIAM J. BEISEL, Port Richmond, N. Y. Filed May 20, 1918. Serial No. 235,682. Renewed Oct. 5, 1920. Serial No. 414,828. 4 Claims. (Cl. 21—31.)

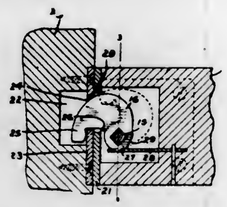


1. A wheel hub comprising a wooden core, metal end plates fitting against the ends of said core and radially arranged metal plates rigidly connected to said end plates and extending along and outwardly from said wooden core.

1,378,518. COMBINED CRIB AND BED CONSTRUCTION. CHARLES H. BOARDMAN, Columbus, Ohio. Filed Sept. 27, 1920. Serial No. 413,148. 2 Claims. (Cl. 5—58.)

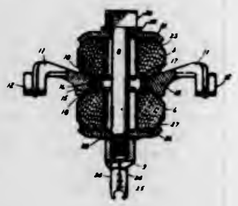
1. In a bed of the class described, spaced head and foot members, a side frame positioned between said members, a lock for connecting said side frames with said members, said lock comprising a hook shaped lock member pivotally mounted within a recess formed in one of the ends of said frames, a keeper plate having an opening formed there-

in carried by one of said members and arranged to receive the hook-shaped locking extremities of said lock member,



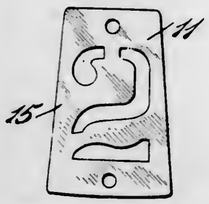
an actuating shaft for said lock member, and a spring for maintaining said lock member in active or inactive positions.

1,378,519. SUSPENSION FOR TROLLEY-WIRES AND THE LIKE. GEORGE W. BOWER, Schenectady, N. Y assignor to General Electric Company, a Corporation of New York. Filed Oct. 19, 1920. Serial No. 418,091. 6 Claims. (Cl. 191—42.)



5. In combination, a yoke having a central opening and supporting pads on opposite sides, annular insulators resting on said pads, a bolt extending through the openings in said insulators and yoke, said bolt having a head and a threaded end, and a trolley ear screwed on said threaded end, the insulators being clamped between said bolt head and trolley ear.

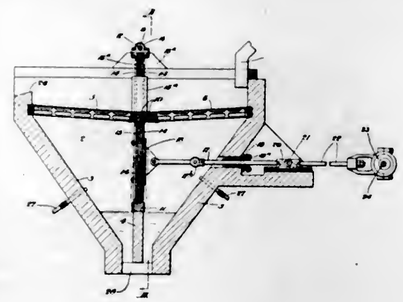
1,378,520. STENCIL-CHARACTER PUNCH AND PROCESS OF MAKING SAME. ANDREW J. BRADLEY, New York, N. Y. Filed Jan. 10, 1921. Serial No. 436,127. 6 Claims. (Cl. 101—28.)



1. The process of making stencil character punches which comprises welding of the cutting members to a thin welding strip and mounting said strip on a suitable base.

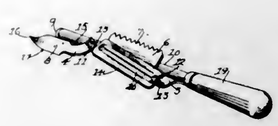
1,378,521. COAL-WASHER. WILLIAM BRINLEY and WALTER COLLINS, Benton, Ill. Filed Feb. 11, 1921. Serial No. 444,179. 4 Claims. (Cl. 83—79.)

1. Coal washing apparatus, comprising a tank, a pair of coal supporting screens arranged transversely of the tank and sloping upwardly and downwardly from the ends thereof; a pendulum plunger having upwardly extending hangers formed integral therewith and journaled on a



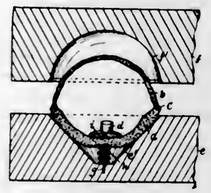
transverse shaft, said shaft being mounted in bearings located above the tank, and means for oscillating said plunger.

1,378,522. CULINARY IMPLEMENT. CHARLES H. CARTER, Brooklyn, N. Y., assignor to Montagu M. Sterling, Brooklyn, N. Y. Filed Oct. 22, 1919. Serial No. 332,489. 3 Claims. (Cl. 30—20.)



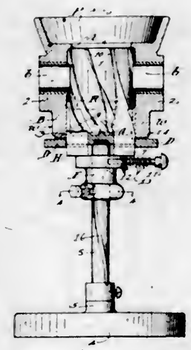
1. A culinary implement having a body portion and two journal bearings, one of which is resilient and adapted to be flexed out of normal position for the insertion and removal of a blade; and a cutting blade mounted in said bearings.

1,378,523. METHOD OF FORMING HOLLOW RUBBER ARTICLES. FRANK A. CIGOL, Paterson, N. J. Filed July 31, 1920. Serial No. 400,318. 2 Claims. (Cl. 18—59.)



1. The method of forming a hollow rubber article having a relatively infusible insert embedded therein which consists in first forming a closed hollow rubber body and in the forming thereof immuring therein a gas-forming substance, then placing said hollow body and the naked insert in a closed mold detached from each other and then subjecting the mold to vulcanizing heat until the gas generated from said substance by the heat expands and fuses said body in the mold and causes the material thereof to flow over the surface of and thus come to embed the insert therein.

1,378,524. CORE-BOX FOR PISTONS. EDWARD W. CLARK, Los Angeles, Calif., assignor of one-fourth to Stanley S. Turner, one-fourth to Susie M. Clark, and one-fourth to Violet E. Turner, Los Angeles, Calif. Filed Aug. 19, 1920. Serial No. 404,675. 20 Claims. (Cl. 22—10.)



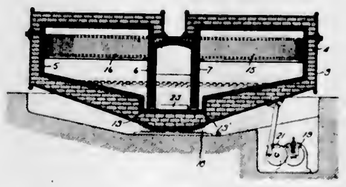
2. A core box having a body, and a relatively movable member therein for forming spiral recesses in the periphery of the core produced thereby.

1,378,525. PAPER-CLIP. CLARENCE C. COLLETTE, Amsterdam, N. Y. Filed Apr. 25, 1919. Serial No. 292,706. 1 Claim. (Cl. 24—261.)



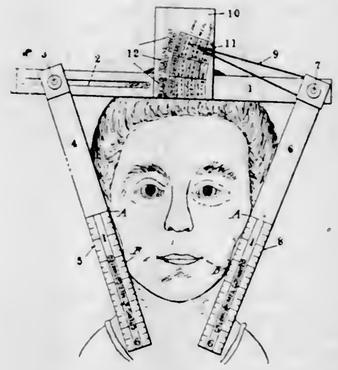
A clip for sheet material comprising a U-shape member having returned leg portions, the portions of the clip lying in the same plane, one of the legs of the U and its returned portion lying wholly within, beside and parallel to the other leg and the returning portion of the said other leg, the return portion of the said other leg of the U lying without and beside the first named leg of the U, sharp pointed projections located on opposite sides of the legs of the U and the returned portions thereof, the projections of opposite sides of the clip being alternately located along the clip and so that the projections on one side will be located at points along the clip intermediate the projections on the opposite side when the legs of the U and their returned portions clamp opposite sides of the sheet material.

1,378,526. MELTING-FURNACE. EDGAR F. COLLINS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 10, 1920. Serial No. 350,487. 6 Claims. (Cl. 204—64.)



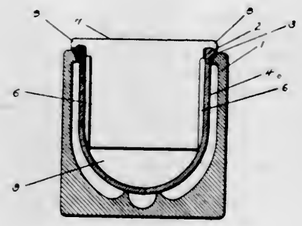
1. An electric furnace comprising a chamber adapted to contain a pool of molten material, electric heating means in said chamber, a second chamber adapted to receive charges of unfused material, said chambers being connected by a conduit and means for causing currents of molten material to be interchanged through said conduit between said chambers thereby subjecting unfused material to the washing action of molten material while retaining solid impurities in the second chamber.

1,378,527. GAGE FOR SELECTING ARTIFICIAL TEETH. WILLIAM C. DALBEY, Du Quoin, Ill., assignor, by mesne assignments, to Dentists' Supply Company, a Corporation of New York. Filed Apr. 21, 1919. Serial No. 291,676. 8 Claims. (Cl. 33—98.)



7. In a gage for selecting artificial teeth to be used in dentures, the combination of means adjustable to the angular conformation of the human face, with a chart having tooth form designations thereon to correspond to the requirement of faces of different shapes, said chart and adjustable means coöperatively arranged for indicating upon the chart the proper tooth form for the particular angular conformation of the human face.

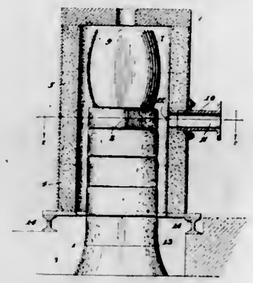
1,378,528. PITCH-POT. ARTHUR E. DEMERS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 10, 1919. Serial No. 337,062. 2 Claims. (Cl. 126—284.)



1. An optical pitch pot comprising a container for the pitch, an inclosing member providing a heating chamber therefor encircling the container, said container having an exteriorly flared portion interlocking with the inclosing member and having interiorly projecting ribs and a combination partition and scraper member having a de-

pending portion spanning the pot and slidably received between the ribs and having laterally projecting portions engaging the flaring edge of the pot for limiting the downward movement of the partition, said member being further provided with an upwardly projecting scraper portion, substantially as illustrated.

1,378,529. FURNACE. JOHN DOERSOM, Columbus, Ohio. Filed June 19, 1919. Serial No. 305,256. 2 Claims. (Cl. 263—14.)



1. In a flame heated furnace, a foundation including an open pit, a pedestal of refractory material arising vertically from said foundation and capable of supporting a crucible on the top thereof, an open bottomed casing located above said pit and formed to surround said pedestal and crucible for the purpose of defining a heating chamber, said latter having its lower end in open communication with said pit, and flame introducing means entering said casing at a position immediately below said crucible and substantially midway of the height of said casing.

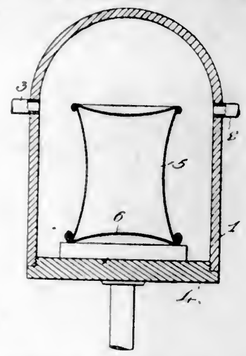
1,378,530. TOOTHBRUSH. LEO E. EVSLIN, New York, N. Y. Filed Jan. 23, 1919. Serial No. 272,668. 1 Claim. (Cl. 15—39.)



A tooth brush comprising a tubular handle, a tubular member removably carried thereby and extending forwardly therefrom, said member being bent slightly intermediate its ends to form an obtuse angle, a brush head carried by said member, and means for locking said brush head against movement relatively to the handle, said means comprising a flattened member removably carried by the handle and engaging the brush head, said flattened member passing through the tubular handle and the tubular member and that part passing through the tubular member being carried so as to bring a flattened face thereof against the inner wall of the tubular extension.

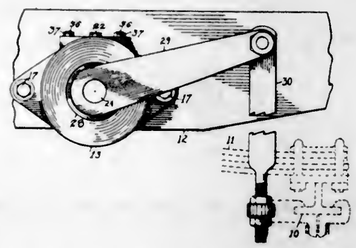
1,378,531. METHOD OF STERILIZING CANNED GOODS. WILLIAM B. FENN, New York, N. Y. Filed July 15, 1920. Serial No. 396,559. 4 Claims. (Cl. 99—15.)

1. The process of sterilizing canned goods which consists in placing an unsealed can in a position other than its top-side up position, then subjecting the can and its contents to steam under pressure, so that the steam enters into the



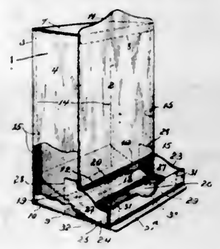
can and agitates the contents thereof, then shifting the can to its normal top-side up position, and finally completely sealing the can.

1,378,532. SHOCK-ABSORBER. FRANK H. FIELD, Jamestown, N. Y. Filed July 1, 1920. Serial No. 393,451. 3 Claims. (Cl. 188—89.)



1. A shock absorber connected to the running gear of a vehicle comprising a casing having a semi-circular chamber therein, a blade piston rotatably mounted in said chamber to be actuated by said running gear, a liquid reservoir above said chamber having passages to each end of said semi-circular chamber, and a plurality of valves in said passages to each end of said chamber to adjustably control the action of said blade piston.

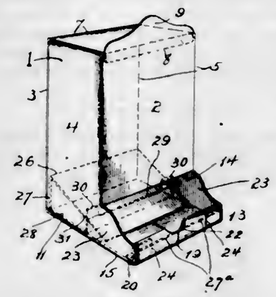
1,378,533. DISPENSING AND DISPLAYING CARTON. RAY H. FITZ GERALD, Pittsburgh, Pa. Filed June 23, 1919. Serial No. 306,196. 5 Claims. (Cl. 229—17.)



1. The combination with the body of a carton having a discharge opening, of a tray communicating with said discharge opening, an inclined bottom platform, and baffle tongues projecting upwardly from said inclined bottom platform rearwardly of said discharge opening.

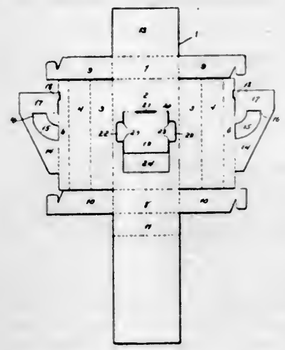
5. The combination with the body portion of a carton having a discharge opening and a bottom extension below said opening, of a tray mounted on said bottom extension, said tray made from a single blank and comprising a bottom, a folded front, end members connected with the body of the carton, and tongues projecting from the end members and entering between the folds of the front of the tray.

1,378,534. DISPENSING AND DISPLAYING CARTON. RAY H. FITZ GERALD, Pittsburgh, Pa. Filed June 23, 1919. Serial No. 306,197. 2 Claims. (Cl. 229—17.)



2. A blank for a carton comprising front, back, side, and bottom members, portion of the front member cut away forming a discharge opening and end members for a tray, an extension from the bottom member to form the bottom of a tray and a portion of said extension being foldable upon itself to form a front for said tray, the portions forming the ends of the tray having tabs to enter between the folds of the front of the tray, and the portions forming the ends of the tray having tongues to overlie the bottom of the tray and said tongues having other tongues to enter between the folds of the front of the tray.

1,378,535. DISPLAY-BOX. RAY H. FITZ GERALD, Pittsburgh, Pa. Filed June 23, 1919. Serial No. 306,198. 5 Claims. (Cl. 206—44.)



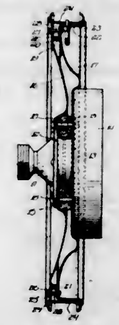
1. In a display box, the combination with a bottom member, having an opening, end members, and side members, of easel members integral with the side members and insertible through the opening in the bottom member, and an easel member integral with the bottom member and extending between and connected with the first-mentioned easel members.

1,378,536. OUTAGE-GAGE. EDWARD J. FLYNN, Parkersburg, W. Va., assignor to Standard Oil Company, (Inc. in N. J.) Filed Dec. 15, 1919. Serial No. 344,785. 3 Claims. (Cl. 73—121.)



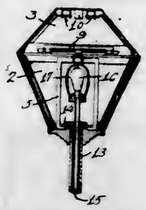
1. An outage gage comprising a tubular body slotted lengthwise throughout one side, a slide telescoping within the body and extendable beyond, a laterally extending foot on the outer end of both the body and the slide, said feet extending in relatively opposite directions, a lifting hook secured to the slide and projecting through the body slot, and a latch pivoted to the body on one side of the slot and adapted to swing across the slot in the path of the projecting hook to engage the same and thereby hold the slide within the body.

1,378,537. DISK WHEEL. GEORGE H. FORSYTH, Chicago, Ill. Original application filed Nov. 26, 1918, Serial No. 264,253. Divided and this application filed Feb. 21, 1921. Serial No. 446,860. 8 Claims. (Cl. 301—63.)



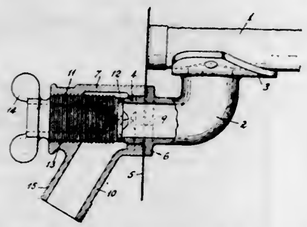
1. In a wheel, the combination of a hub portion, a tire-carrying portion, a medial disk portion provided with a step adjacent its periphery, and a tire-retaining member having a fulcrum bearing at its inner edge upon the step.

1,378,538. ADVERTISING DEVICE. ISSIC H. GARSON, Detroit, Mich. Filed July 12, 1917. Serial No. 180,122. 2 Claims. (Cl. 40—77.)



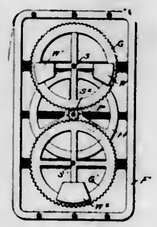
1. An advertising device for holding a series of transparent films for display comprising a several sided lamp structure having a base part open at the top and a separable top part, each side of the base having an opening therein and being provided with grooves on each side of the opening interiorly of the base and in parallel relation for supporting the film, said top part also having apertured sides corresponding in number to the number of apertured sides of the base providing a cover therefor, spring-actuated members on the upper and lower ends respectively on each of the apertured sides of the top interiorly thereof adapted to hold a transparency, and an illuminating means within the structure.

1,378,539. FAUCET. ROBERT E. HAINES, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 22, 1920. Serial No. 375,846. 4 Claims. (Cl. 251—156.)



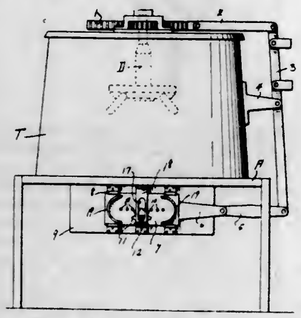
2. In a faucet, a base member having a flange and a valve seat whose face is on a tubular projection and thereby spaced away from said flange, in combination with a tubular spout member having a flange and carrying a screw-plug adapted to engage said face, said flanges having alining openings, said tubular projection entering said tubular spout member with a sliding fit and surrounding the axis of said valve seat, and means in said openings for securing said flanges together in definite relation to one another.

1,378,540. GRADOMETER. SIDNEY WILSON HALL, San Antonio, Tex. Filed May 13, 1920. Serial No. 381,125. 2 Claims. (Cl. 33—215.)



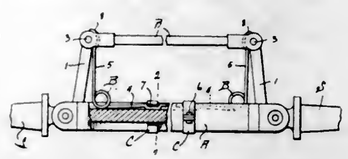
2. A gradometer comprising, a gear, weights carried at diametrically opposite points upon said gear and disposed below the center of support of the same, a second gear spaced from the first gear, a weight carried by the second gear and disposed below the center of support of such gear, a pinion interposed between the gears and meshing with the same, and an indicating wheel movable by said pinion, for the purpose described.

1,378,541. WASHING-MACHINE. ORLA L. HUFFMAN, Weatherford, Tex. Filed Jan. 27, 1920. Serial No. 354,442. 1 Claim. (Cl. 74—27.)



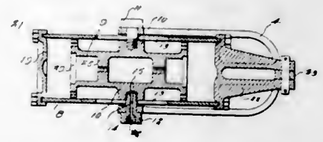
In combination with a body, means for supporting said body at an elevation, a vertically disposed rotatable member carried by said body and extending thereabove, a vertically disposed rock lever supported by the body to one side thereof, a rack slidably supported upon the body and coacting with the rotatable member to rotate said member upon reciprocation of the rack, an operative connection between the lever and the rack whereby the rack is reciprocated upon swinging movement of the lever, a plate depending from the bottom of the body, a second plate supported for slidable movement by the first named plate, a plurality of alined pins projecting outwardly from the second plate, arcuate guide members carried by said second plate adjacent the end pins, a bracket depending from the bottom of the body and provided with a vertically disposed slot, a rotatable and vertically oscillating shaft extending through the slot of the bracket, a pinion carried by the shaft for engagement with the pins, said shaft extending beyond the pinion for contact with the arcuate guide members, whereby said pinion engages the pins from above and below, and a link connecting the second named plate and the lower end portion of the lever so that the reciprocation of the plate by the pinion 11 rocks the lever.

1,378,542. STEERING ATTACHMENT. ORLA L. HUFFMAN, Weatherford, Tex. Filed Jan. 27, 1920. Serial No. 354,443. 1 Claim. (Cl. 280—94.)



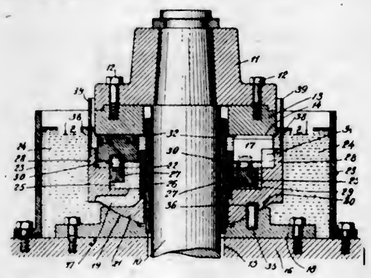
In combination with an axle provided in one of its faces with a longitudinally disposed recess, a steering spindle carried thereby and a spindle arm coacting with the spindle, a vertically disposed coil spring seated within the recess of the axle and held against vertical displacement by the walls of said recess, said spring being positioned inwardly of but in close proximity to the spindle arm, the opposite end portions of said spring being laterally extended to provide arms, one of said arms extending longitudinally of the axle, the second arm extending in the same general direction as the spindle arm and terminating in a hook bearing against the outer end portion of the spindle arm, and means for clamping the free end portion of the first named arm of the spring to the axle.

1,378,543. PUMP. FRANK JOHNSON, Aurora, Ill. Filed Sept. 11, 1920. Serial No. 409,512. 1 Claim. (Cl. 230—27.)



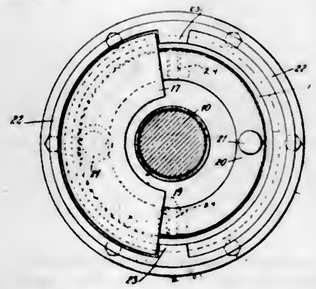
An air pump including a base having upstanding arms, a cylinder mounted between said arms and provided with longitudinal slots, bolts extending through said arms and slots for supporting the cylinder, a piston mounted within the cylinder and engaged by said bolts whereby longitudinal movement of the piston is prevented, check valves mounted on the opposite ends of said piston to permit alternate ingress of air through said valves upon movement of the cylinder, one of said bolts having a central bore communicating with the piston to withdraw the air from the latter.

1,378,544. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Mar. 25, 1916. Serial No. 86,535. 45 Claims. (Cl. 64—25.)



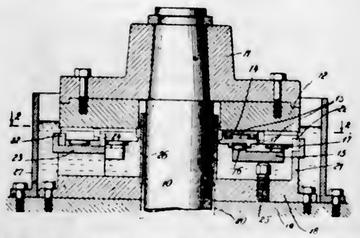
1. A thrust bearing comprising a plurality of tiltable bearing shoes or members, equalizing blocks each adapted to support a group of adjacent shoes, and means for distributing the load between the several equalizers.

1,378,545. THRUST-BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Original application filed Mar. 25, 1916, Serial No. 86,535. Divided and this application filed Aug. 29, 1917. Serial No. 188,726. 33 Claims. (Cl. 64—25.)



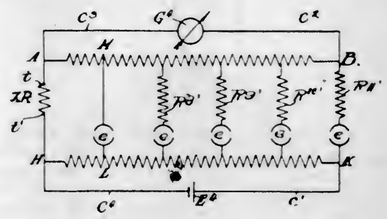
1. A thrust bearing comprising an equalizing member mounted to tilt about an axis extending through the axis of the bearing, and a pair of bearing shoes tiltably mounted on said member, one on each side of the bearing axis, on a line at right angles to the pivotal axis of said member.

1,378,546. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Original application filed Mar. 25, 1916, Serial No. 86,535. Divided and this application filed Aug. 29, 1917. Serial No. 188,727. Renewed Sept. 21, 1920. Serial No. 411,810. 35 Claims. (Cl. 64—25.)



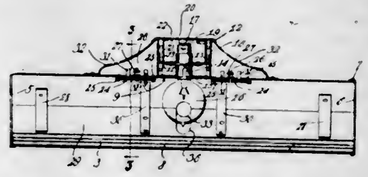
9. A thrust bearing comprising the combination of a base having an annular flange, a plurality of bearing shoes arranged in concentric rings within the flange, and equalizing blocks pivotally mounted on the base and so arranged that each of said blocks supports two shoes of one ring and one shoe of the other ring, with webs extending inwardly from the base flange between the blocks and having lugs extending upwardly between the shoes of the inner group, and other lugs extending inwardly from the said flange between the shoes of the outer group.

1,378,547. RESISTANCE MEASUREMENT. HENDRIK ABRAHAM WIJNAND KLINKHAMER, Hengelo, Netherlands. Filed Apr. 24, 1920. Serial No. 376,409. 5 Claims. (Cl. 175—183.)



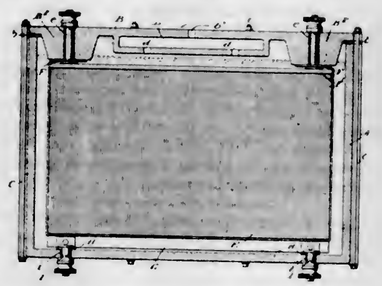
1. An arrangement for the direct reading of electrical resistances comprising a main circuit including the resistance to be measured, a branch resistance circuit including an ammeter associated with said main circuit, a second branch resistance circuit including a source of current supply associated with said main circuit and said first mentioned branch circuit, and means for varying the resistance of said main circuit and the degree of coupling thereof with respect to said branch circuits, whereby different reduction factors are obtained for the same division of the scale of said ammeter.

1,378,548. ILLUMINATOR FOR LICENSE-PLATES. WILLIAM H. LYNCH, Berkeley, Calif. Filed June 16, 1920. Serial No. 389,526. 2 Claims. (Cl. 40—132.)



1. An illuminating attachment for license tags including a housing having an outlet slot, an extension housing, a plate insertible into the extension housing, a lamp socket carried thereby, a reflector connected to the plate by said socket, a lamp supported by the socket and within the housing, a cover plate for the extension housing, means carried thereby for holding the plate in the extension housing.

1,378,549. BATTERY. ARTHUR P. MANCHESTER, Providence, and HARRY M. SPOONER, Cranston, R. I. Filed Dec. 16, 1912. Serial No. 736,969. 1 Claim. (Cl. 204—38.)



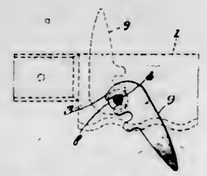
An electrode for batteries formed of cupric oxid (CuO) cuprous oxid (Cu_2O) and the residua of a saccharine binder, the volatile and combustible elements of which have been eliminated by heat.

1,378,550. NAIL HOLDING AND SPACING DEVICE. ELI J. MILLER, York, Pa. Filed Oct. 5, 1920. Serial No. 414,903. 7 Claims. (Cl. 1—56.)



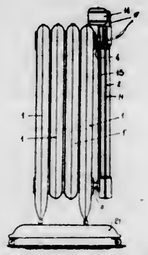
2. As a new article of manufacture, a nail-holding and spacing strip consisting of a strip of rubber of width and thickness suitable for holding nails, said strip provided with recesses along one edge and communicating with a face of the strip, and nails arranged in said recesses.

1,378,551. KNIFE DIRECTOR AND GUIDE-GAGE. ELI J. MILLER, York, Pa. Filed Oct. 21, 1920. Serial No. 418,539. 5 Claims. (Cl. 30—20.)



2. In a knife director and guide for slicing bread, in combination, a knife blade, a screw threaded post clamped to said knife blade at the handle end of said blade, means on said post for adjusting a guide to and from the knife blade, and means for clamping said guide in its adjusted position, said guide adapted to touch the face of the loaf about to be cut in order to determine the cutting position of the knife blade, and to be withdrawn from contact with said face at the termination of the cutting stroke or strokes.

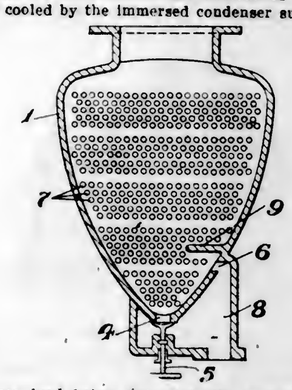
1,378,552. ELECTRIC-HEATED THERMOSIPHON-RADIATOR. GIOVANNI MONTE, Turin, Italy. Filed Dec. 20, 1919. Serial No. 346,349. 8 Claims. (Cl. 219—38.)



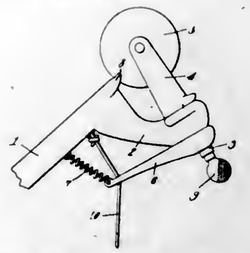
1. A device for heating thermosiphon radiators comprising a casing arranged parallel with and adjacent to the radiator sections, means connecting the upper and lower ends of said casing with the adjacent ones of said radiator and a plurality of electrically heated means, each extending from the top to the bottom of said casing, the heat developed by said means heating the water and maintaining it in circulation through said radiator and casing around said heating means.

1,378,553. APPARATUS FOR CONDENSING STEAM. DONALD B. MORISON, Hartlepool, England. Filed Dec. 5, 1918. Serial No. 265,471. 13 Claims. (Cl. 257—33.)

1. A steam condenser having a restricted outlet proceeding from its base and means for controlling said outlet whereby at any predetermined steam load, determined by the setting of the controlling means for the outlet, the condensate can flow away freely and be uncooled but as the steam load increases beyond the predetermined load condensate will collect in the bottom of the condenser and be cooled by the immersed condenser surface, increasing steam load being automatically accompanied by increasing depth of immersion of condenser surface.

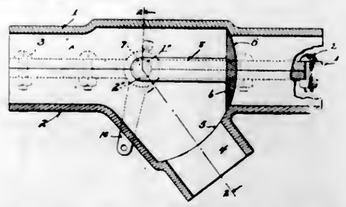


1,378,554. TROLLEY. GEORGE B. NUSSBAUM, New Philadelphia, Ohio. Filed Dec. 1, 1920. Serial No. 427,532. 3 Claims. (Cl. 191—74.)



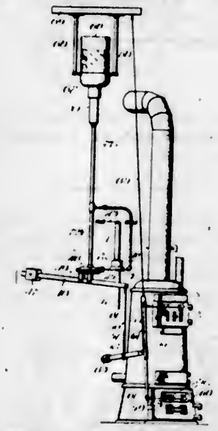
1. In a trolley the combination with a pole and an arm extending from the end thereof and offset relative thereto, of a harp mounted to rotate on and supported by the arm, a trolley wheel journaled within the harp, oppositely extending guard fingers upon the pole and concentric with the axis of rotation of the harp, the ends of the fingers normally extending past the periphery of the wheel, an arm mounted to swing with the harp, means for holding the harp and wheel in a predetermined position relative to the pole.

1,378,555. MUFFLER. PAUL O'SULLIVAN, Milwaukee, Wis. Filed Feb. 10, 1921. Serial No. 443,908. 1 Claim. (Cl. 251—18.)



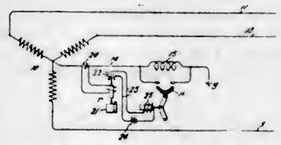
A cut-out valve comprising a tubular shell forming a main gas passage, the shell embodying a pair of longitudinal separable units having companion recesses forming a crank bearing, one of the units having an integral angular nozzle radially disposed with relation to the bearing, the nozzle and main passage formed by the shell units being provided with a common uninterrupted circular valve track, concentrically disposed with relation to the crank bearing, a one-piece valve head engageable with the track and adapted to selectively close the main passage of the shell or nozzle, the one-piece valve head including integral crank straps terminating with studs journaled in the shell bearings, one of which carries an actuating arm.

1,378,556. HEAT-REGULATOR. THOMAS O. PERRY, Oak Park, Ill. Filed Oct. 31, 1918. Serial No. 260,542. 10 Claims. (Cl. 236—87.)



10. In a heat regulator, the combination with a motor whose actuations are thermostatically controlled, of two dampers one of which is self-closing, a damper yoke extending between said dampers with pivotal connection at either end with each damper, a lateral arm extending from the side of said yoke and operative connection between said arm and said motor, whereby angular movement imparted by said motor to said yoke about either pivotal connection may open or close the other damper, substantially as herein set forth.

1,378,557. ELECTRICAL SYSTEM. ERNEST W. PRAGST, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 30, 1920. Serial No. 399,985. 7 Claims. (Cl. 175—294.)



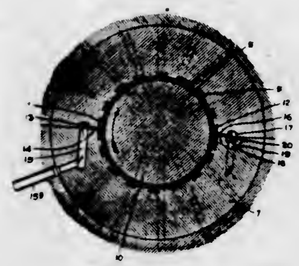
1. The method of protecting systems of electrical transmission and distribution which consists in connecting reactance in the connection from the neutral of the system to ground and in short circuiting the same when a fault to ground which has developed in the system endures more than a predetermined period of time.

1,378,558. WINDOW-GUIDE. PAUL RISSMAN, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Aug. 5, 1920. Serial No. 401,428. 6 Claims. (Cl. 20—52.1.)



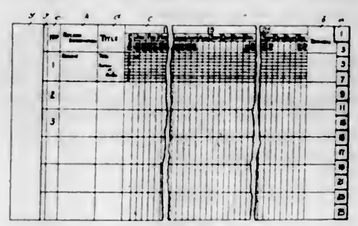
5. In closed body construction, a window guide in the form of a sheet metal channel having walls of spring material provided with struck-in lips at spaced points.

1,378,559. BEARING AND METHOD OF LUBRICATING SAME. JAMES L. ROBERTS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 1, 1919. Serial No. 293,900. 7 Claims. (Cl. 64—24.)



1. The combination with a shaft and a bearing on which it rotates, of means for feeding lubricant to the bearing surface on the side of the bearing at which the direction of movement of the shaft is upward, and means for discharging lubricant from the other side of the shaft, whereby said shaft acts as a pump to pump lubricant through the bearing to lubricate and cool it.

1,378,560. DIARY. GEORGES HENRI ROBICHON, Three Rivers, Quebec, Canada. Filed Apr. 3, 1918. Serial No. 226,541. 1 Claim. (Cl. 283—1.)

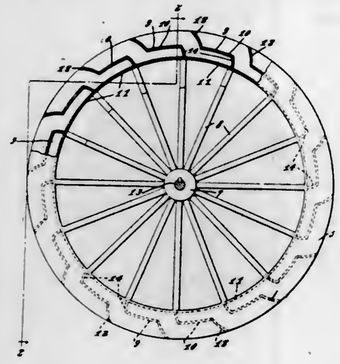


A diary comprising sheets, each ruled to provide vertical columns, each of which is provided with month designations, each of said month columns being ruled to provide two sub-columns provided with calendar designations other than months, the sheet being further ruled to provide two columns at one side of and adjacent the first-mentioned columns and a number column adjacent one of said two columns, horizontal lines intersecting all of the columns forming horizontal rows, subject matters designations being provided for said last-mentioned columns all of said designations being disposed at the top of the sheet.

1,378,561. WATER-WHEEL. CAIUS A. ROWLETT, Palmetto, Fla. Filed Nov. 26, 1919. Serial No. 340,718. 1 Claim. (Cl. 170—111.)

A water wheel including circular plates, a hub, means for providing connection between the circular plates and hub, a plurality of pockets supported between the plates, each of said pockets including a circumferentially extending wall, a curved member having connection with the inner edges of the circular plates, and forming one of the walls of the pockets, said circumferentially extending walls of the pockets being disposed in spaced relation

with the curved member, one end of each circumferentially extending walls having connection with the curved

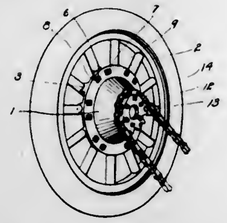


member, and a curved wall forming a part of each circumferentially extending wall to provide a mouth.

1,378,562. FLOTATION OF MINERALS. RALPH E. SAYRE, Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Jan. 25, 1921. Serial No. 439,832. 10 Claims. (Cl. 83—85.)

1. The method of effecting the concentration of minerals by flotation, which comprises adding to the mineral pulp a small amount of an aldehyde condensation product, and subjecting the resulting mixture to a flotation operation; substantially as described.

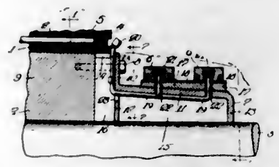
1,378,563. CLAMP FOR SPOKE-WHEELS. GEORGE L. SCHOFIELD, Kansas City, Mo. Original application filed July 1, 1918, Serial No. 242,911. Divided and this application filed May 10, 1920. Serial No. 380,169. 3 Claims. (Cl. 301—6.)



1. A sprocket supporting member comprising a shell having an inwardly projecting flange at one end, means for securing the sprocket to said flange and an outwardly projecting flange at the other end provided with spoke engaging seats and means for binding the seats and spokes together.

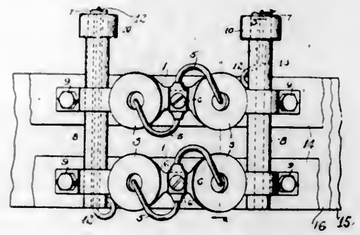
1,378,564. COLLECTOR-RING SUPPORT. THEODOR SCHOU and RICHARD L. BEHRENS, Mansfield, Ohio, assignors to The Ideal Electric & Manufacturing Co., Mansfield, Ohio, a Corporation of Ohio. Filed July 14, 1920. Serial No. 396,083. 4 Claims. (Cl. 171—322.)

1. In a dynamo-electric machine having collector rings, a collector ring support comprising an annular frame including a nearly cylindrical body part with end flanges thereon disposed inwardly to bear on the shaft and an outwardly disposed flange at its inner end, the last-men-



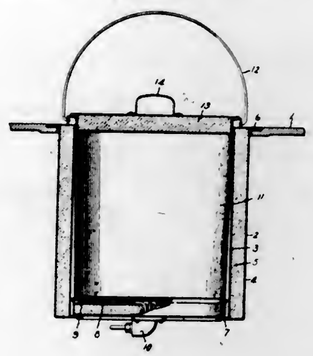
tioned flange being provided with a rim disposed toward the core of the machine whereby a housing is provided for the collector ring leads.

1,378,565. BRUSH-HOLDER. THEODOR SCHOU, Mansfield, Ohio, assignor to The Ideal Electric & Manufacturing Co., Mansfield, Ohio, a Corporation of Ohio. Filed July 14, 1920. Serial No. 396,251. 9 Claims. (Cl. 171—324.)



6. In combination a plurality of insulated collector rings disposed side by side, a pair of studs spaced outward therefrom, parallel with the ring axis and equidistant therefrom, and a plurality of oblong multiple-box brush holders disposed side by side opposite said rings respectively, supported on said studs and insulated therefrom.

1,378,566. ELECTRIC COOKER. JACOB L. SHROYER, Oak Park, Ill., assignor to General Electric Company, a Corporation of New York. Filed Sept. 19, 1919. Serial No. 324,902. 6 Claims. (Cl. 219—35.)



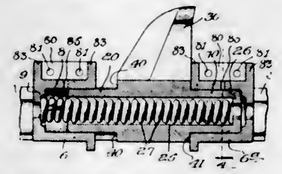
1. A cooker for ranges and the like comprising a cooking utensil having a heat insulating cover, a heat insulating bottom for the utensil having a heating unit in heat conductive relation therewith and a heat insulating casing surrounding the utensil and coöperating with the cover and the bottom to completely inclose the utensil.

1,378,567. STRAP CONNECTION FOR JACQUARD DEVICES. HERBERT SIESHOLTZ, Allentown, Pa. Filed Oct. 4, 1920. Serial No. 414,528. 4 Claims. (Cl. 139—80.)



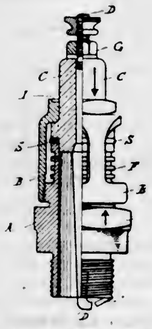
1. A harness connecting link for Jacquard looms comprising a pair of lengthwise shiftable parallel arms having hooks at their outer ends and having overlapping inner ends, a spring embracing the said overlapping ends and loosely engaged by the inner end of one of the arms, the other of said arms having an inwardly opening bend in which a portion of the spring is seated whereby the spring may be rotated to shift the same with respect to the said arm.

1,378,568. CAR-STOP. GEORGE N. SIMPSON and RAY W. WILLIAMS, Chicago, Ill., assignors to Car Dumper & Equipment Company, a Corporation of Illinois. Filed Feb. 5, 1921. Serial No. 442,750. 5 Claims. (Cl. 104—252.)



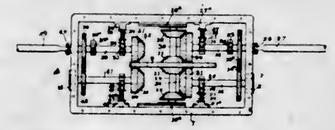
1. In a car stop, a rail, a pair of boxes attached to the rail, a hollow spindle slidably mounted in the boxes and having a stop adapted to engage a wheel passing on the rail, and means within the hollow spindle for yieldingly holding it at one extremity of its sliding movement.

1,378,569. SPARKING PLUG. HENRY SINGLETON-GRIESBACH, Liverpool, England. Filed Aug. 10, 1920. Serial No. 402,677. 2 Claims. (Cl. 123—169.)



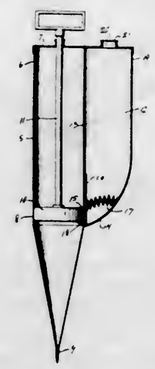
1. A spark plug comprising a hollow member provided with cooling fins, an electrode within said hollow member an insulator partially surrounding said electrode and seated on said hollow member, and a cap engaging said insulator and threaded to said hollow member below the cooling fins.

1,378,570. VARIABLE-SPEED POWER TRANSMISSION. CONRAD A. SLOCUM, Sedro Woolley, Wash. Filed Mar. 15, 1921. Serial No. 452,473. 3 Claims. (Cl. 74—26.)



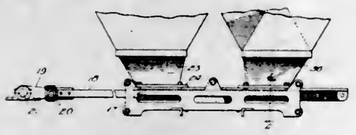
1. In a power transmission, in combination, a friction disk gear mounted fixed centrally on a revoluble shaft which is slidable to parallel positions; a conical friction gear fixed concentric to each side of said disk; a conical friction gear mounted fixed on and near each end of said slidable shaft; main and auxiliary friction gears mounted fixed on separable shafts, on opposite sides of said disk, engageable therewith and with said central conical gears; main and auxiliary friction gears mounted fixed on separable driven shafts, on opposite sides of said disk, engageable separately with said disk, with said central conical gears, and with said end conical gears; means to engage and disengage said driver gears in and from contact with said disk and with said central conical gears; means to engage and disengage said driven gears in and from contact with said disk, with said central conical gears and with said shaft-end conical gears; and means to move said disk shaft to parallel positions.

1,378,571. INJECTION-PUMP. WILLIAM I. SMELLEY, Demorest, Ga. Filed June 16, 1920. Serial No. 389,402. 2 Claims. (Cl. 47—37.)



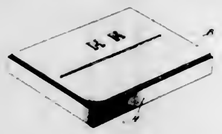
1. A device of the character described comprising a casing having a conical end tapering to a needle point, a plunger in said casing, a reservoir carried by said casing, a portion of the casing forming one wall of the reservoir, said wall having an opening adjacent the conical end, a valve plate slidable within and guided by a portion of the side walls of the reservoir, said reservoir having a bottom sloping toward said opening, a spring carried by said bottom and connected to the valve plate for urging said plate into engagement with the casing, said spring also urging the plate toward one end of the reservoir to uncover the opening therein.

1,378,572. MEASURING DEVICE. FREMONT C. STEVENS, Chicago, Ill., assignor to American Building Products Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,321. 4 Claims. (Cl. 221—96.)



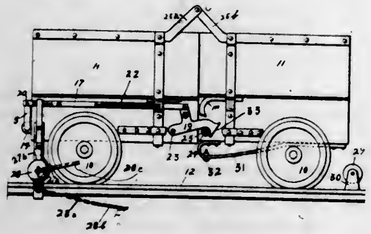
1. In a device of the kind described, the combination of a guideway formed with spaced parallel side plates whose upper and lower edges are inturned to provide flanges, a bed plate supported on the lower flanges of the side plates and having a central discharge opening, a carriage adapted to be reciprocated within the guideway mounted on rollers which travel adjacent the sides of the bed plate, the upper sides of the carriage being formed to provide blank surfaces and openings therebetween from each of which depend walls to provide a compartment having a definite cubical capacity, the lower edges of said walls terminating adjacent the bed plate to prevent escape of loose material from each compartment except when the same is in register with the discharge opening in the bed plate, and a plurality of hoppers mounted on the guide-way having means for discharging from each hopper loose material into one of the carriage compartments only when the carriage is properly positioned thereunder, and means for reciprocating the carriage whereby materials are discharged in measured quantities first from one hopper and then from another into different carriage compartments preliminary to a subsequent discharge through the bed plate opening, substantially as described.

1,378,573. PRINTING-BLOCK AND METHOD OF MAKING THE SAME. ARTHUR K. TAYLOR, Baltimore, Md., assignor to Taylor Registering Projector Company, Baltimore, Md., a Corporation of Maryland. Filed Oct. 10, 1917. Serial No. 195,763. Renewed Oct. 22, 1920. Serial No. 418,765. 6 Claims. (Cl. 101—382.)



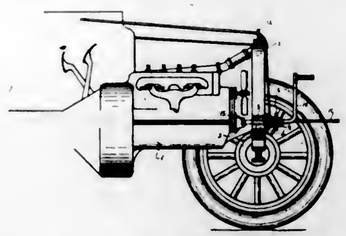
5. A printing block comprising a base, a plate, and an intermediate, adhesive coated composite fabric and rubber sheet.

1,378,574. CONVEYING-RECEPTACLE. CLARENCE J. WESTON, Fort Dodge, Iowa. Filed Jan. 2, 1920. Serial No. 349,031. 9 Claims. (Cl. 214—58.)



2. In a device of the class described, the combination of a car, comprising two sections hinged at their upper ends, lugs fixed on opposite sides of one of said sections near its lower inner end, hook shaped levers on the adjacent section in engagement with said lugs, a link pivoted to each of said hook shaped levers and extending longitudinally to the outer end of said section, a crank shaft on the end of said section having vertically extending arms pivoted to said links, and a trip lever positioned in the path of said car to engage said crank shaft and thereby disengage said levers from the lugs.

1,378,575. DRAFT ATTACHMENT FOR MOTOR-VEHICLES. LOUIS W. WORSHAM, Houston, Tex. Filed Jan. 20, 1920. Serial No. 352,820. 1 Claim. (Cl. 254—166.)



The combination with a motor vehicle having a motor, the forward end of whose crank shaft is formed into a clutch member, a drum shaft, one end of which is adapted to be connected with and disconnected from said clutch member, a drum fixed to said shaft, a pulley carried by said vehicle, a cable bearing also carried by said vehicle, a cable wound around said drum, one end of which passes around said pulley and is attached to a stationary object and the other end of which passes through said cable bearing and is free.

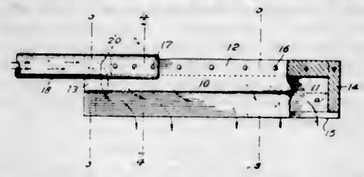
1,378,576. PORTABLE LOADING DEVICE. CHARLES J. ALLEN, San Francisco, Calif. Filed July 31, 1919. Serial No. 314,530. 2 Claims. (Cl. 214—41.)



1. In a load lifting and transferring device, a cable, a derrick to which one end of the cable is attached above the load, a chain attached to the other end of said cable, a detachable hook by which the load is attached to the chain, a distant anchored pulley, a second cable passing about the pulley and having one end secured to the free end of the chain, a motor driven load carrier adapted to be attached to the other end of the last mentioned cable, said carrier being movable in a line between the pulley and load, and a rope extending from the load to one leg of the derrick, and adapted to act in unison with the other cables and chain in lifting and swinging the load to one side of the motor carrier, as said carrier moves forward.

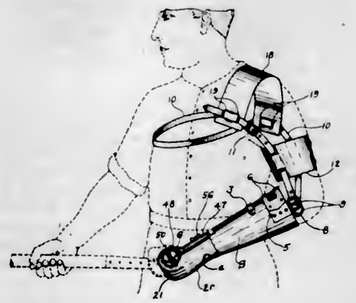
1,378,577. ICE AND SNOW CUTTING IMPLEMENT. HENRY W. BAHRENBURG, Newark, N. J. Filed June 1, 1920. Serial No. 385,862. 4 Claims. (Cl 262—1.)

1. A cutting device of the character described comprising a blade formed to provide a steam chamber extending longitudinally substantially the entire length of the blade, the blade being tapered to form a cutting edge, the cutting edge being formed with a longitudinally extending



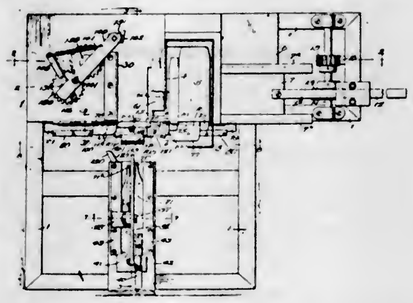
orifice communicating with the interior of the steam chamber, and a tubular shank conducting steam to the steam chamber.

1,378,578. ARTIFICIAL LABORING-HAND. MARTIN BAUMAN, Akron, Ohio. Filed Dec. 27, 1920. Serial No. 433,520. 7 Claims. (Cl. 3—12.)



1. An artificial laboring hand comprising a socket member, a body hingedly engaged with the socket member, yieldable means for constantly urging the body in one direction relative to the socket member, and means for locking the body against swinging movement, said means comprising a slide carried by the body and engageable within a recess carried by the socket member.

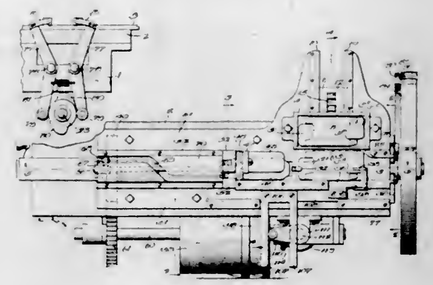
1,378,579. BOX-FORMING MACHINE. DOMINIK M. BERNOTOW, Chicago, Ill., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1918. Serial No. 244,538. 15 Claims. (Cl. 93—55.)



1. In a machine for setting up cartons, an operating table, a plunger adapted to enter one end of the carton for squaring it, and a finger adapted to move toward and from the table for intermittently gripping the rear end flap of the carton for holding the latter while the squaring means is entering the carton, the finger being located between the lateral edges of the carton and the plunger being slotted to accommodate said finger.

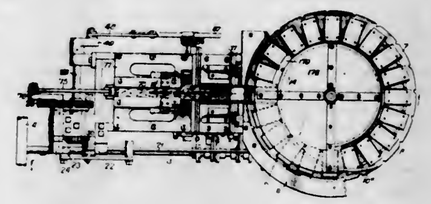
7. A box forming machine adapted to support an open ended box, a rotatable member having a fixed pivot on the machine, a folder pivoted to the free end of said rotatable member, means for rotating said folder about its pivot, and means for rotating said rotatable member about its pivot for folding in the end flaps of the box.

1,378,580. MACHINE FOR SETTING UP AND FOLDING CARTONS. DOMINIK M. BERNOTOW, Chicago, Ill., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1919. Serial No. 306,039. 30 Claims. (Cl. 93—55.)



1. In a machine for setting up cartons, the combination of a member adapted to enter one end of the carton and means for moving said member both upward and sidewise for swinging the top of the carton into position above the bottom of the carton.

1,378,581. MACHINE FOR LINING CARTONS. DOMINIK M. BERNOTOW, Chicago, Ill., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1919. Serial No. 341,097. 20 Claims. (Cl. 93—36.)

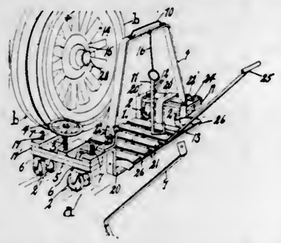


1. A machine for lining cartons having a turn table adapted to support the cartons, said table being rotatable to bring the cartons to the operating point of the machine, means located at the operating point for inserting the lining, and a stationary shoe at the operating point adapted to override the cross flap of the carton as the latter approaches the operating point for holding said flap out of the way of the entering lining.

1,378,582. DUAL-WHEEL REMOVER. WILLIAM A. CHIPPS, Los Angeles, Calif. Filed Sept. 18, 1919. Serial No. 324,692. 9 Claims. (Cl. 280—61.)

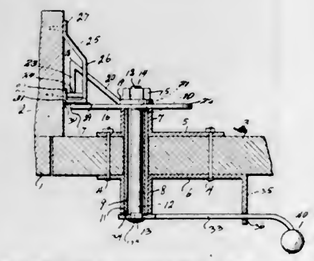
9. A wheel remover comprising a carriage having a frame and means to raise and lower the frame; and provided at one side with a handle and an arched standard; said standard being hinged at one end to one end of the carriage and detachably connected to the other end of the carriage and rigidly supported by its hinge and con-

nection; said carriage being adapted to be moved sidewise by the handle to bring the carriage underneath an



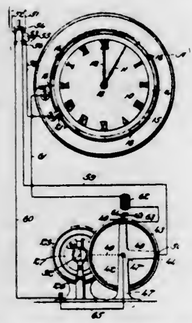
elevated wheel; and a latch bar provided with a hook to engage the spokes of the wheel and provided with notches to engage the standard.

1,378,583. DOOR-LATCH. THOMAS L. CHURCH, Gilbert, Minn. Filed Sept. 6, 1919, Serial No. 322,174. Renewed Oct. 9, 1920. Serial No. 415,947. 5 Claims. (Cl. 292—238.)



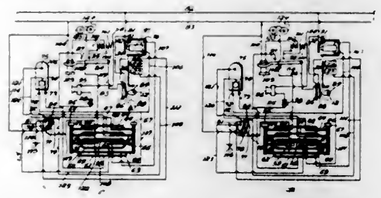
1. In a latch, the combination with a keeper on the jamb of a door opening, of latching means mounted in bearings of a door transversely thereof and provided with a hasp on one end adapted to cam under and into engagement with the keeper, and a gravity actuator carried by the opposite end on the exterior of the door, to automatically move the hasp in engagement with the keeper, a plate mounted on the exterior face of the door and having a right angle portion provided with a vertical slot, in which the actuator is mounted for vertical movement, and means adapted to engage the upper end of the slot, to retain the actuator in the lower end of the slot, thereby preventing the hasp from entirely disengaging from the keeper.

1,378,584. SIGNALING DEVICE. ISIDOR M. COLE and BURR MCKINNEY, Indianapolis, Ind. Filed June 18, 1920. Serial No. 389,839. 3 Claims. (Cl. 161—1.)



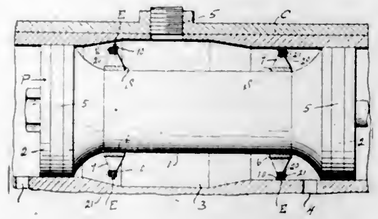
2. In a clock controlled signaling device, the combination of a signal, an electric motor, a normally open circuit for the motor, a rotatable shaft operatively connected with the motor, a pinion on said shaft, a gear wheel meshing with the pinion, a member carried by and adjustable radially of the gear wheel, a connection between said member and signal whereby the rotation of the gear wheel will operate the signal, clock controlled means for closing the motor circuit, and means operated by the motor for breaking the motor circuit when the gear wheel has completed one revolution.

1,378,585. TELEPHONE SYSTEM. ELMER CURNUTT, Garnett, Kans. Filed Aug. 14, 1917. Serial No. 186,205. 2 Claims. (Cl. 179—30.)



1. In a party line telephone system, the combination with a pair of main leads and a plurality of receiving and transmitting sets connected thereby, a normally open switch in each set disconnecting said set from the said leads, a polarized step by step magnetic means for each switch to close the switch when energized by alternating current, a reversing switch, a generator adapted to generate direct and alternating currents and in series with the said reversing switch and the said magnetic means, a multiple contact switch, circuits connecting said generators, magnetic means and said normally opened switches, and a means associated with each magnetic means operable when a direct current from said generator is generated to restore the step by step mechanism to initial position and thus open the switch.

1,378,586. VALVE-CLEANER. JACOB E. DONNELLY, Pittsburgh, Pa. Filed Mar. 27, 1920. Serial No. 369,359. 9 Claims. (Cl. 121—193.)

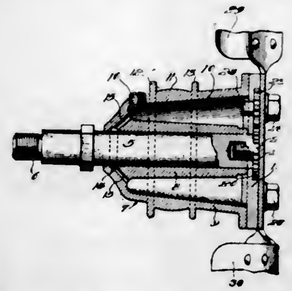


1. In combination with a piston valve including a barrel provided with heads, a scraping means carried by the barrel inwardly of and in close proximity to each of the heads, said scraping means coacting with the wall of the chamber in which the valve operates, each of said scraping means being entirely independent of the heads.

1,378,587. HUB-BEARING. TRUMAN B. FUNK, Moline, Ill. Filed May 3, 1920. Serial No. 378,461. 3 Claims. (Cl. 64—26.)

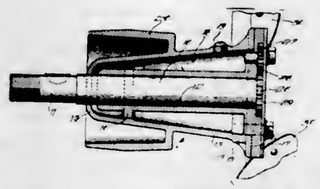
1. A pressure lubricated bearing or the like comprising, in combination, a stationary stud, a circular body member rotatably mounted on said stud and comprising an integral element having a circular sleeve journaled on the stud and also having an integral shell integral at its inner end with said sleeve and spaced away from the sleeve in its central and outer end portions to provide

with the sleeve an annular oil space, there being an inwardly facing groove on said body member at its inner end and in direct communication with the stud, an oil passage connecting said groove with said annular oil space, a flange plate in conjunction with the outer ends of the sleeve and shell aforesaid and serving to inclose said oil space, there being a circular recess in the outer face of said plate concentric with the stud, and there being another circular recess in the outer face of the plate in peripheral communication with the first mentioned recess, a gear in the first mentioned recess and rigid with



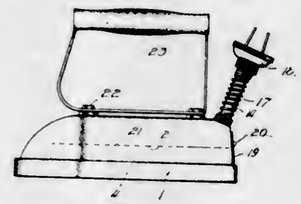
respect to the end of the stud and also serving to retain the plate in position with respect to the stud, a pinion in the second mentioned recess meshing with the gear, there being an oil passage extending through the plate and in communication with the line of travel of the pinion teeth, and there being an oil discharge recess in the front face of the plate establishing communication of the point of enmeshment of the pinion and gear teeth with the end of the stud, and a cover plate secured to the outer end of the flange plate and closely engaging the gear and pinion, substantially as described.

1,378,588. HUB-BEARING. TRUMAN B. FUNK, Moline, Ill. Filed May 3, 1920. Serial No. 378,462. 3 Claims. (Cl. 64—26.)



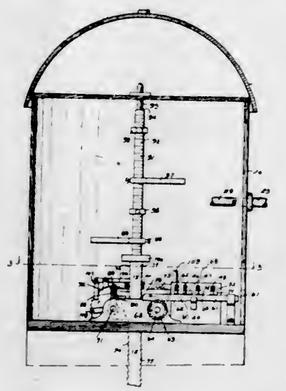
1. A pressure lubricated bearing comprising, in combination, a stationary stud, a sleeve journaled thereon, an outstanding flange at the outer end of said sleeve, a concentric shell surrounding said sleeve and spaced away therefrom to provide an annular oil space, the inner end of the shell being supported by the inner end of the sleeve, and the outer end of the shell being in engagement with the peripheral portion of the sleeve flange to inclose the oil space aforesaid, there being a circular recess in the outer face of the sleeve flange concentric with respect to the stud, a gear located in said recess and rigid with respect to the stud, there being another circular recess in the outer face of the sleeve flange and in peripheral communication with the first mentioned recess, a pinion rotatably mounted in the second mentioned recess, a cover plate extending over the gear and pinion and said recesses and serving, in conjunction with the sleeve flange, to inclose said recesses, there being an oil passage extending through the sleeve flange and establishing communication between the oil space and the path of travel of the pinion teeth, and there being another recess establishing communication between the point of enmeshment of the teeth of the pinion and gear and the end of the stud, substantially as described.

1,378,589. ELECTRIC SADIRON. LEO B. LINCOLN, Chicago, Ill. Filed July 11, 1919. Serial No. 310,077. 5 Claims. (Cl. 219—25.)



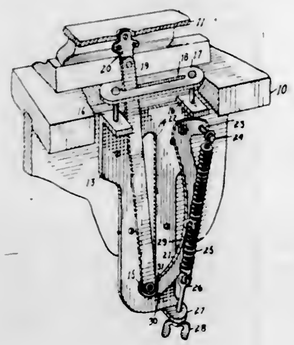
1. A sad iron comprising a body having a broad flat chamber arranged near the bottom and extending substantially throughout the length of the body, said chamber opening out through the rear end of the body, a broad flat heating unit fitting in said chamber and adapted to be moved into and out of the chamber through the open rear end, there being a pocket opening upwardly out of the rear end of said chamber, an insulating block arranged in said pocket so as to lie wholly above said chamber and permit the insertion and removal of said heating element without disturbing the block, leading in wires from the exterior of the iron to the block, wires extending from said unit to said block, and means carried by the block for connecting corresponding wires together.

1,378,590. COIN-OPERATED MECHANISM FOR GASOLENE-VENDING MACHINES AND THE LIKE. ARTHUR J. LUDWIG, Baxter, Iowa. Filed Mar. 24, 1920. Serial No. 368,445. 12 Claims. (Cl. 194—60.)



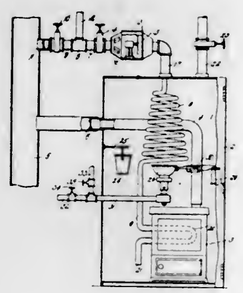
1. In a machine of the class described, a casing, a coin chute therein having a portion adapted to receive and hold a coin, a cylinder extending from said portion, a rod in said cylinder, a slide bar connected with said rod, a plunger adapted to engage a coin in said portion for forcing the coin into said cylinder and actuating said slide bar, a locking bar, said slide bar and locking bar having portions adapted to engage when the said bars are in certain positions of their movement, for holding the slide bar against movement in one direction, means tending to yieldingly move the slide bar in another direction, an actuating bar, devices for locking said actuating bar against sliding movement in either direction, means for actuating one of said devices from said slide bar, a member slidably and rotatably mounted, adjustable means thereon for limiting the movement of said actuating bar, means for limiting the sliding movement of said member, and means adapted to be actuated by the movement of said member for moving the locking bar to inoperative position.

1,378,591. LID-SUPPORT. ELMER E. LUTZHOFF, Jamestown, N. Y. Filed June 21, 1920. Serial No. 390,562. 12 Claims. (Cl. 217—60.)



1. In combination with a hinged lid, a supporting member movably connected to the lid, and a spring tensioned member arranged to lie in a substantially horizontal plane when the lid is open and to be moved downwardly by said supporting member upon closing of the lid, said spring tensioned member being formed with a curved face and with a free end and said supporting member being arranged to ride on the curved face and then over said free end of the spring tensioned member when the supporting member is in down position.

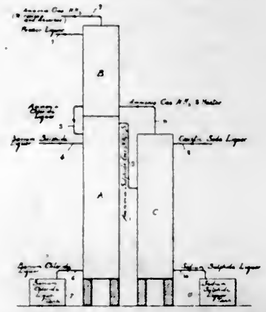
1,378,592. HEATING SYSTEM. PATRICK MCLAUGHLIN, Dover, N. H. Filed July 8, 1920. Serial No. 394,664. 3 Claims. (Cl. 126—116.)



1. A heating apparatus, comprising a closed chamber having a relatively small hot air outlet at its upper portion, an air inlet pipe coil located within the chamber and discharging downwardly into the chamber, and a burner located below the coil, said burner operating to heat the coil and the air entering therethrough and the products of combustion from said burner commingling with said hot air and passing out through said outlet.

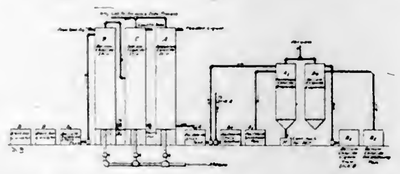
1,378,593. RECOVERY OF AMMONIA. JAMES H. MACMAHON, Saltville, Va., assignor to The Mathieson Alkali Works (Inc.), Providence, R. I., a Corporation of Virginia. Filed Sept. 3, 1919. Serial No. 321,348. 22 Claims. (Cl. 23—21.)

1. A process for recovering ammonia vapor from the fixed ammonia present in the feeder liquor of the ammonia soda process, which comprises treating the ammonium chlorid of said liquor with the sulfid of an alkaline earth metal to form ammonium sulfid and a chlorid of said metal, separating said salts, and reacting upon



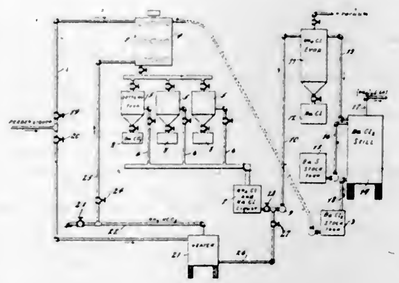
the ammonium sulfid with an alkali metal oxygen compound, to liberate the ammonia in gaseous form from said ammonium sulfid.

1,378,594. METHOD FOR THE PRODUCTION OF BARIUM CHLORID. JAMES H. MACMAHON, Saltville, Va., assignor to The Mathieson Alkali Works, Inc., a Corporation of Virginia. Filed Jan. 20, 1920. Serial No. 352,860. 8 Claims. (Cl. 23—13.)



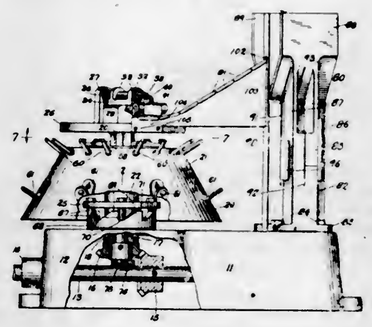
1. The method of producing barium chlorid consisting in separating the ammonium chlorid from the feeder liquor of the ammonia soda process, dissolving the ammonium chlorid crystals so obtained, mixing a solution of barium sulfid with the ammonium chlorid solution, forming barium chlorid and ammonium sulfid, and then separating the barium chlorid from the liquor by crystallization.

1,378,595. METHOD OF PRODUCING CARBONATES OF THE ALKALINE-EARTH METALS. JAMES H. MACMAHON, Saltville, Va., assignor to The Mathieson Alkali Works, Inc., a Corporation of Virginia. Filed Feb. 19, 1920. Serial No. 359,891. 3 Claims. (Cl. 23—13.)



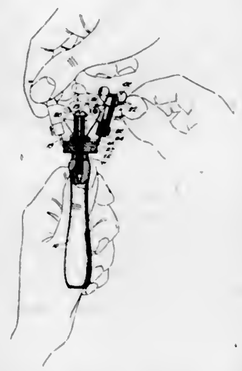
1. The method of making barium carbonate, which comprises converting the ammonium bicarbonate content of the feeder liquor of the ammonia soda process into barium carbonate by reaction with a solution of barium chlorid, separating the barium carbonate from the solution, reacting upon the resultant solution with barium sulfid to form barium chlorid, and utilizing the barium chlorid so produced in additional conversion of ammonium bicarbonate into barium carbonate.

1,378,596. MACHINE FOR AUTOMATICALLY ATTACHING CLOSING-CLIPS FOR FLEXIBLE TUBES. LOUIS MARINSKY, New York, N. Y., assignor to Israel F. Greenbaum, Brooklyn, N. Y. Filed July 2, 1919. Serial No. 308,235. 14 Claims. (Cl. 113—57.)



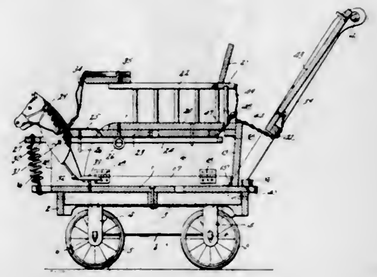
1. In a machine of the class described, a workpiece supporting member, means for supporting a plurality of tubes on said member, means for giving said member a combined intermittent rotary and vertical movement, means for straightening one end of said tubes, means for placing V-shaped sealing clips on said end portion of said tubes in the vertical movement of said member, and means for compressing said clips onto said end portions of the tubes.

1,378,597. SHARPENER FOR PHONOGRAPH-NEEDLES. GEORGE WILLIAM MAYER, New York, N. Y. Filed May 3, 1920. Serial No. 378,424. 3 Claims. (Cl. 51—205.)



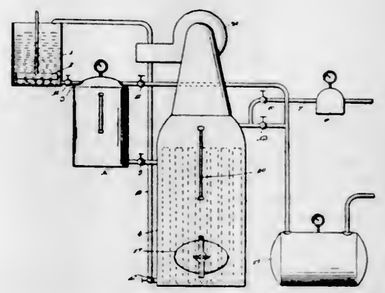
1. A sharpener for phonograph needles, comprising a handle, a screw rod detachably secured to the forward end of the said handle, a grinding wheel removably held on the said screw rod, a nut screwing on the said screw rod adjacent the said grinding wheel, an angular arm mounted to swing on the said rod between the said nut and the head of the screw rod, a bearing pivoted on the outer end of the said arm, a socket adapted to hold a needle and mounted to turn in the said bearing, and a handle on the said socket to turn the latter in the bearing and to swing the needle-holding socket, bearing and arm bodily around on the screw rod.

1,378,598. FOLDING CONVERTIBLE GOCART, HIGH CHAIR, AND BABY-JUMPER. OTTO H. MEYERS, New York, N. Y. Filed Apr. 1, 1920. Serial No. 370,551. 4 Claims. (Cl. 155—38.)



1. The combination with a wheeled supporting base of a mechanism of the character described, comprising a seat, a slotted arm supported on the base, a platform slidably mounted on the arm adapted to support the seat at various elevations, and means for locking the arm in various positions of adjustment, whereby the seat is supported at various elevations.

1,378,599. PROCESS AND APPARATUS FOR MAKING ELECTRODES. WILLIAM G. MICHEL, Niagara Falls, N. Y. Filed Dec. 17, 1919. Serial No. 345,659. 8 Claims. (Cl. 204—29.)

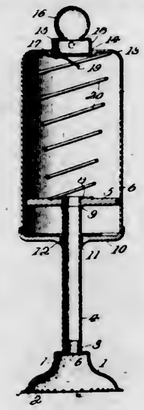


1. An electrode composed of pulverized dry carbon, the particles of carbon being held together by a fluid hydrocarbon mixed therewith and baked to a solid mass, said fluid being heated and mixed with the carbon by vacuum and pressure.

1,378,600. HAND-OPERATED AIR-DASH WASHER. ISAAC B. MILLNER, Washington, D. C. Filed Sept. 1, 1920. Serial No. 407,478. 4 Claims. (Cl. 68—5.)

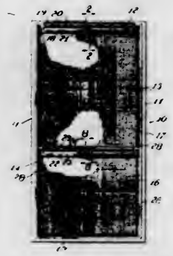
1. A device for washing fabrics comprising a member adapted to be projected against the fabric to be washed to loosen the dirt, said member having a plurality of fabric engaging fingers formed with adjacent air outlets, and

means operated by the projection of said member against a fabric for causing a flow of air into said member and



outwardly through said outlets whereby to force air about said fingers and through the mesh of said fabric to assist in removing the dirt.

1,378,601. FLY-ESCAPE SCREEN. GEORGE W. MITTELSTAEDT, Morton Grove, Ill., assignor to Fly Escape Screen Company, Chicago, Ill., a Corporation of Illinois. Filed June 4, 1920. Serial No. 386,551. 6 Claims. (Cl. 156—37.)



6. In a fly escape screen of the type described comprising a frame having a rail provided in its outer face with a pair of vertically spaced cavities, fly escape passages connecting said cavities and other passages leading from the lower cavity to the interior of said screen, said cavities and passages being open to the light and screening material covering said passages and said lower cavity.

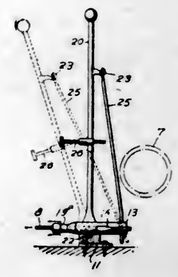
1,378,602. SHOE-FASTENER. KINTARO MIYAKAWA, San Francisco, Calif. Filed Sept. 10, 1919. Serial No. 322,945. 3 Claims. (Cl. 267—74.)



2. A fastener for lace shoes comprising a rigid arcuate body member, a pair of buttons slidably carried thereby, and means yieldably connecting said buttons with the body member.

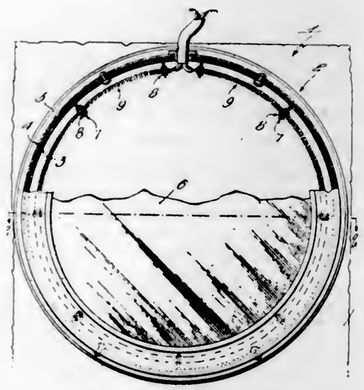
1,378,603. AUTOMATIC STOP FOR GRAPHOPHONES. MALCOLM MOLLAN, Brooklyn, N. Y. Filed Mar. 30, 1920. Serial No. 369,907. 7 Claims. (Cl. 192—116.)

3. An automatic stop device for graphophones comprising in combination with the graphophone tone arm and brake lever, a mounting base fixed to the graphophone frame, a horizontal cylinder fixed to said mounting base, a plunger rod shiftable in said cylinder and in engagement with the graphophone brake lever during rotation of the



graphophone turn-table, a post adjustably fixed to said mounting base, a rod supported on said post and in engagement with said plunger rod adapted to be engaged by the tone arm for shifting the plunger rod to effect the setting of the brake lever.

1,378,604. CONDENSATION-PREVENTING DEVICE. JOHN W. MURPHY, Cambridge, Mass. Filed June 17, 1920. Serial No. 389,718. 3 Claims. (Cl. 219—19.)

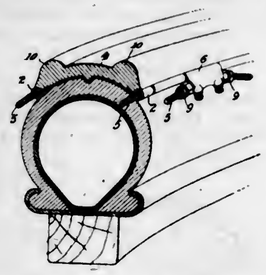


1. A device of the class described comprising a frame for disposition against a plate of glass, a strip of packing material carried by the frame and extending therefrom, being adapted to fit against the plate of glass, a pane of glass also carried by said frame, a heating coil, and a clamping member for retaining the packing material in position and for supporting said coil and retaining the latter in position.

1,378,605. TIRE-PROTECTOR. RAPHAEL NETTER, New York, N. Y., assignor to Marvin C. Altmayer, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,201. Renewed Nov. 16, 1920. Serial No. 424,509. 3 Claims. (Cl. 152—17.)

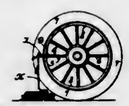
2. A tire protector comprising a series of overlapping metal plates of a shape conforming to the tire to which they are to be applied, each plate but one having its edges folded back to form side loops, the said one plate having its edges flattened for the attachment thereto of a metal

block and having an adherent rubber tread surface in combination with flexible wires or cables strung through



the pockets formed by said loops and passing through perforations in the said blocks and means for securing the ends of said wires to said blocks.

1,378,606. TIRE-CHAIN-APPLYING DEVICE. ALBERT S. NOONAN, Philadelphia, Pa., assignor to Foss-Hughes Company, Philadelphia, Pa., a Corporation of Pennsylvania and Massachusetts. Filed Nov. 11, 1919. Serial No. 337,312. 5 Claims. (Cl. 152—14.)



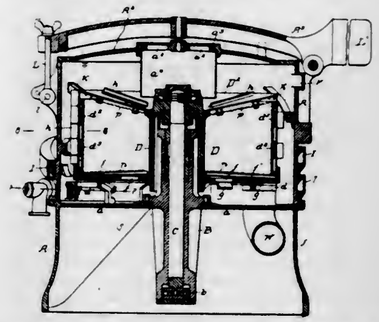
1. A tire chain attaching device consisting of a forked body section having a portion formed to engage a spoke of a wheel; a stem section projecting from said body; and a second spoke-engaging section projecting from said stem section substantially parallel to the first named spoke-engaging portion.

1,378,607. DUST-BAG. ROXANNA A. NORTON, New York, N. Y. Filed Oct. 24, 1919. Serial No. 333,095. 5 Claims. (Cl. 150—1.)



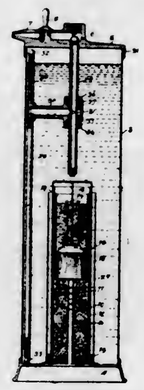
1. A dust bag, comprising a bag body provided with a slot extending a distance downward from the mouth of the bag to allow of passing the stick of a duster down the slot with the head of the duster within the bag body, and a bar held on the bag body and extending from the mouth to the bottom of the bag body, the bar having a slot registering with the said bag body slot.

1,378,608. EXTRACTOR. THOMAS S. PATTERSON, Rosemont, Pa., assignor to F. Royal Hammett, Philadelphia, Pa. Original application filed Feb. 26, 1912, Serial No. 679,932. Divided and this application filed Aug. 7, 1916. Serial No. 113,608. 2 Claims. (Cl. 210—66.)



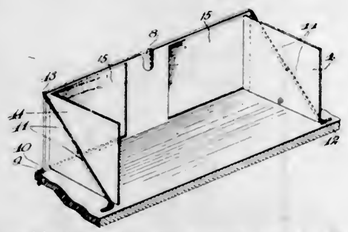
1. The combination in an extractor, of a casing; a basket rotatably mounted in the casing; a steam pipe extending into the casing; an opening in the bottom of the casing; a central, contracted opening at the top of the casing; a series of radial blades on the top of the basket; and blades on the periphery of the basket, said blades being so arranged that, as the basket is rotated, air will be drawn through the inlet opening to the top of the basket and will be forced by the top blades of the basket toward the periphery and will be drawn down between the basket and the casing and will flow through the outlet opening in the bottom of the casing, carrying with it any steam that may accumulate in the casing.

1,378,609. FIRE-EXTINGUISHER. GEORGE T. PEARSONS, New York, N. Y. Filed Nov. 27, 1916. Serial No. 133,521. 7 Claims. (Cl. 169—27.)



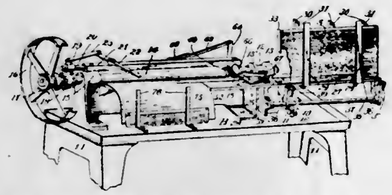
3. In a fire extinguisher, the combination of a reservoir having an opening in the top; a removable cover for said opening having a discharge outlet therein for the reservoir; a cage secured centrally to the bottom; a gas generator adapted to be carired within said cage, having an outlet leading into the reservoir; a tube connected to the discharge outlet of the cover to extend into the reservoir with its end closed and adapted to abut against the generator to maintain the generator in the cage, the bore of said tube constituting a continuation of the discharge outlet and having lateral ports; and means to connect said tube with the liquid in the lowermost part of the reservoir in all positions of the extinguisher, substantially as and for the purpose specified.

1,378,610. LUGGAGE-CARRIER. EARL R. PERKINS, Manitowish, Wis. Filed Feb. 8, 1919. Serial No. 275,807. 1 Claim. (Cl. 224—29.)



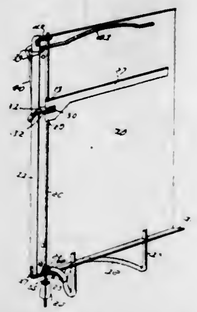
The combination with the running board of an automobile; of a luggage carrier comprising a wall pivoted to the running board for folding on top thereof, and having one side provided with foot scraper bars which are on top of the plate when it is folded, foldable braces extending between the wall and the running board, and end wings carried by the wall and extending across the running board, said wings being pivoted to the wall and adapted to be folded thereagainst when it is folded on top of the running board, the side of the wall against which the wings are foldable being recessed to receive the same.

1,378,611. APPARATUS FOR REFINISHING OR RETOUCHING THE TEETH OF SAW-BLADES. REINHART W. PITTMAN, New York, N. Y., assignor to Alston Saw & Steel Company, New York, N. Y., a Corporation of Pennsylvania. Filed June 26, 1918. Serial No. 241,926. 19 Claims. (Cl. 76—38.)



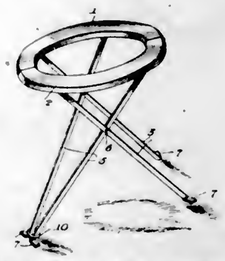
1. The combination of a support for a pile of toothed blades; means to operate upon the teeth of a blade; means operable to feed a blade from the pile and present the blade to the means to operate upon the teeth thereof; means to actuate said blade feeding means normally inoperative and operable to cause the blade feeding means to be actuated as a blade is delivered from the means to operate upon the teeth thereof.

1,378,612. COPY-HOLDER. ENOCH PROUTY, Arcadia, Fla. Filed Feb. 10, 1920. Serial No. 357,527. 6 Claims. (Cl. 120—34.)



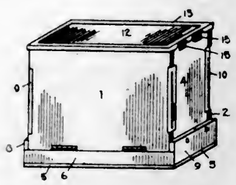
1. A copy holder having an easel or rest, a plunger rod reciprocably mounted in a plane parallel with said easel or rest, an indicator arm having a sliding frictional engagement with said rod, a dog connected with the indicator arm and engaged with the easel or rest for resisting upward while permitting downward movement of said arm, and a key for imparting movement to said plunger rod.

1,378,613. PORTABLE AND COLLAPSIBLE ARTICLE OF FURNITURE. FRANK WELLINGTON PUTMAN, Newport, R. I. Filed Oct. 4, 1920. Serial No. 414,574. 6 Claims. (Cl. 155—136.)



1. A portable article of furniture for the purpose set forth, including a seat having elements on the bottom thereof, pivotally connected crossed legs having their upper ends provided with means for engaging said elements, and means engaging one of the opposed legs of the respective pairs of legs for forcing said legs together at the lower portions thereof and for spreading the upper portions of both pairs of legs for locking all of the legs with the elements of the seat.

1,378,614. COLLAPSIBLE CRATE OR PACKING-CASE. NORMAN JAMES MCLEOD and CLARENCE FERDINAND RAINSFORD, Adelaide, South Australia, Australia. Filed Oct. 15, 1919. Serial No. 330,937. 2 Claims. (Cl. 217—15.)



1. A collapsible crate or case comprising; a tray formed of the bottom of the crate and shallow side and end pieces rigidly fastened thereto; ends hinged to the bottom of the tray adjacent to the end pieces of the tray and adapted to fold down the one upon the bottom of the tray and the second upon the first; sides hinged to the top of the side pieces of the tray and adapted to fold down the one above the upper end piece and the second above the first; a lid made in two parts each part being hinged at one edge to the top of one of the ends; supporting cleats secured to the inner side of the sides near their top edges, and two metal clips each comprising a central trough and two side wings, one of which wings is fastened to one part of the top and the other of which rests upon the other part of the top; and a locking rod which is carried, when the crate is erected, by two eyes in the upper edges of the side of the crate and, when the crate is collapsed, by two eyes in the side pieces of the tray.

1,378,615. AUTOMOBILE-SLEEPER. JAMES J. REHANEK, Columbia, S. C. Filed Apr. 1, 1920. Serial No. 370,491. 1 Claim. (Cl. 155—7.)

An automobile body having forward and rear seats of which the former is provided with a hingedly mounted foldable back member and means for securing the same in its upright position, foldable legs mounted on the rear side of said back member adjacent opposite sides and the top edge to support the back member in the plane of the seat members, the free extremities of said legs overlapping when the latter are in forward position, a spring clamp



mounted medially on the rear side of said back member and adapted to releasably secure the overlapping extremities of said legs to hold the same in horizontal parallelism with the plane of the back member to serve as a robe rail, and foldable filler members for arrangement in a common plane with said seat members.

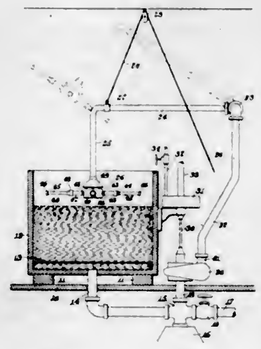
1,378,616. PROCESS OF MAKING CALCIUM BISULFITE. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed June 10, 1919. Serial No. 303,104. 6 Claims. (Cl. 23—13.)

1. A process of making calcium bisulfite cooking liquor which consists in first acidulating water with sulfur dioxid in one absorbing chamber, and then causing such acidulated water to react with lime in a separate absorbing chamber.

1,378,617. METHOD OF MAKING CALCIUM-BISULFITE COOKING LIQUOR. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Sept. 5, 1919. Serial No. 321,975. 4 Claims. (Cl. 23—13.)

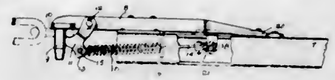
1. The herein described process of making a calcium bisulfite solution, which comprises pulverizing limestone containing magnesium and calcium carbonate, and causing a reaction between such pulverulent material, water and sulfur dioxid.

1,378,618. APPARATUS FOR DYEING. CHARLES H. ROBBINS, Gleasondale, Mass., assignor to C. A. Claflin Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 28, 1920. Serial No. 377,386. 9 Claims. (Cl. 8—19.)



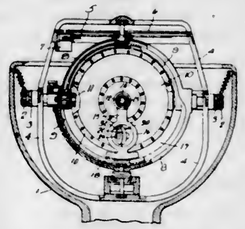
1. The combination with a dye-vat having a perforated false bottom; a circulating pipe for the dye liquor having a branch extending downwardly into said vat; and a spraying device freely revoluble about the lower end of said branch pipe above the liquor and provided with means for ejecting jets downwardly onto said liquor and at an angle thereto.

1,378,619. SHACKLE. GEORGE BRYANT ROBERTSON, Keene, N. H. Filed Dec. 14, 1920. Serial No. 430,742. 2 Claims. (Cl. 213—67.)



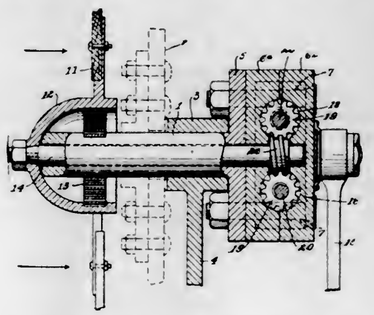
1. A shackle, including a base member, a fixed jaw secured to said member, a second jaw swingingly secured to said base member and adjacent said first named jaw, said second jaw being formed with a shoulder, a rod having one of its ends pivotally secured to such shoulder, a stop, and a spring having one of its ends coöperating with said shoulder, its opposite end bearing against said stop.

1,378,620. GYROSCOPIC COMPASS. GEORGE A. ROSSITER, Brooklyn, N. Y., assignor to The Carrie Gyroscopic Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 9, 1920. Serial No. 357,155. 8 Claims. (Cl. 33—204.)



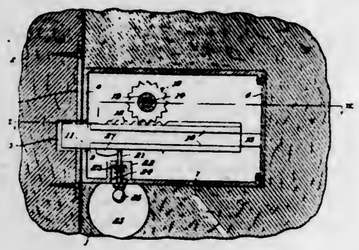
1. In a gyro compass provided with a directive axis; a pendulum pivoted from said axis as a center; and a gyroscopic device carried by and forming a part of the weight of said pendulum, substantially as described.

1,378,621. STROKE-REGULATOR FOR WINDMILLS. ALFRED B. SABIN, Laramie, Wyo. Filed June 21, 1920. Serial No. 390,430. 6 Claims. (Cl. 103—85.)



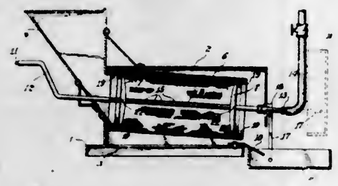
1. In an automatic stroke-regulator for a windmill, the combination of a shaft for the main wind wheel, a crank arm carried by the shaft, a crank pin guided in said crank arm and adapted to be attached to the connecting rod that actuates the pump, threaded adjusting means mounted in the crank arm for moving the crank pin in or out on the arm, an auxiliary wind wheel rotatably mounted on the axis of the shaft, a spring connecting the same with the shaft and mounted so that its tension will be increased by an accelerated rotation of the auxiliary wheel, and means actuated by the auxiliary wheel and coöperating with the threaded means for automatically adjusting the crank pin on the arm.

1,378,622. DOOR-LOCK. MIKE SARBIJ, Ludlow, Mass. Filed July 27, 1920. Serial No. 399,234. 2 Claims. (Cl. 292—142.)



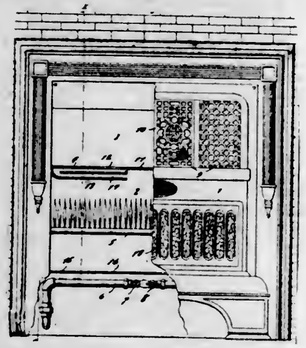
1. A lock of the type described comprising a casing, a bolt slidable therein, teeth formed upon one side of the bolt, a gear wheel engaging said teeth for shifting the bolt, means for holding the bolt in its operative and inoperative positions, said means comprising a tensioned pin carried by the lock casing and an elongated lug having a curved bottom face carried by the bolt adapted to be engaged by the pin.

1,378,623. ASH-SIFTER. HENRY J. SCHAFFER, Brooklyn, N. Y., assignor to Jacob Schaffer, Brooklyn, N. Y. Filed June 5, 1920. Serial No. 386,853. 7 Claims. (Cl. 83—60.)



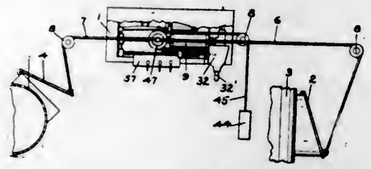
1. In a sifter, a screen, a casing inclosing said screen, a support rotatably carried by said casing and mounting said screen for a sifting movement within the casing, means for feeding a substance to be sifted to the screen, and means for supplying a dust allaying liquid through the support to the substance and screen.

1,378,624. GAS-HEATER. WILLIAM H. SCHOFIELD, Brooklyn, N. Y., assignor to The Sanitary Heating Company, a Corporation of New York. Filed June 16, 1920. Serial No. 389,469. 5 Claims. (Cl. 126—85.)



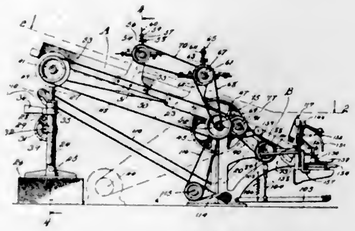
1. A gas heater comprising a lower combustion chamber containing a gas burner, an upper heating chamber, a perforated diaphragm separating said chambers and a heating structure provided with a tortuous passage leading from the middle portion of the combustion chamber to the perforations in said diaphragm.

1,378,625. MOTOR FOR REGULATORS. ROBERT J. SEATOR, Battle Creek, Mich., assignor of one-half to Herbert Matthews, Battle Creek, Mich. Filed May 17, 1920. Serial No. 381,878. 12 Claims. (Cl. 121—40.)



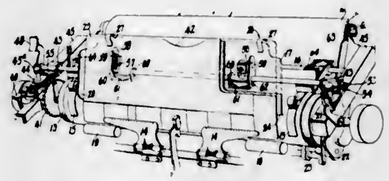
1. In a structure of the class described, the combination of a cylinder, oppositely seating inlet and exhaust valves for said cylinder, the exhaust valve being adapted to open the inlet valve when the exhaust valve is closed, a pivoted valve actuating lever engaging said exhaust valve, a plunger, a weight for returning said plunger, a reciprocatingly mounted actuating rod adapted to engage said valve lever, said actuating rod being provided with a pair of stops limiting its movement, actuating springs on said actuating rod, a tappet on said plunger adapted to place said springs under stress by the stroke of the plunger so that when the actuating rod is released it is actuated thereby, a locking member for said actuating rod, a trip on said plunger coacting with said locking member on the out-stroke of the plunger, a trip lever also coacting with said locking member and provided with a detent for said plunger, an electromagnet comprising an armature constituting a lock for said trip lever, an actuating spring for said trip lever placed under stress by the return of the plunger to its initial position, and electrical connections for said electromagnet comprising three relatively fixed contact members, two of which are electrically connected to said electromagnet, a contact member on said plunger adapted to coact with the third of said relatively fixed contact members and with one of the pair connected with the electromagnet, said actuating rod being adapted to coact with the other of said pair to complete the circuit when the parts are in their initial position, the circuit being broken when the actuating rod is in position to open the inlet valve.

1,378,626. PACKING-MACHINE FOR HAIRPINS. HOMER P. SMITH, Appleton, Wis., assignor, by direct and mesne assignments, to Scolding Locks Hairpin Co., Appleton, Wis., a Corporation of Wisconsin. Filed Dec. 26, 1918. Serial No. 268,318. 34 Claims. (Cl. 163—8.)



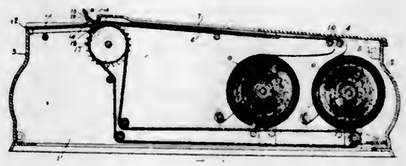
1. A machine for packing hairpins and like articles including a table provided with longitudinal channels, means for separating articles on the table and causing said articles to travel in the channels, a series of guides extending in mutual divergence from one end of the table and arranged to receive articles from the channels of the table, means for supporting a series of containers adjacent the ends of the guides and means for feeding articles from the guides into said containers.

1,378,627. TYPEWRITING-MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 8, 1919, Serial No. 309,435. Renewed Oct. 13, 1920. Serial No. 416,749. 18 Claims. (Cl. 197—127.)



1. In a typewriting machine, the combination with a revoluble platen and a rear paper-table, of line-spacing devices adapted to rotate said platen, to carry a record-sheet past the printing point at the front of the platen, a collating-board in front of the platen and above it, comprising a clip to hold a work-sheet thereon, and a device for tilting said collating-board to enable the record-sheet to pass beneath it when inserted from behind the platen.

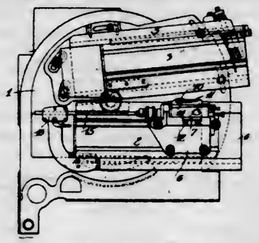
1,378,628. AUTOGRAPHIC REGISTER. MILTON C. STERN, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio. Filed July 2, 1920. Serial No. 393,624. 4 Claims. (Cl. 281—6.)



1. In an autographic register, the combination with paper strip feeding devices and a casing with a lid in two sections, one section having a tear-off edge, and the other section having a paper guide bar having one edge located in such proximity to the feeding device that the paper strips enter upon the bar and having its upper surface sharply inclined to lift the paper toward the tear-off edge.

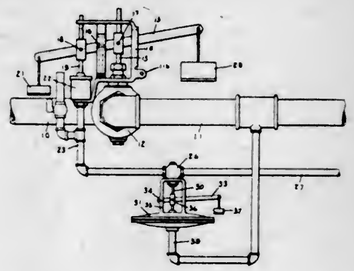
1,378,629. TOOL MECHANISM FOR GEAR-CUTTING MACHINES. ARTHUR L. STEWART, EDWARD W. BULLOCK, and SCHUYLER H. EARL, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Original application filed Oct. 24, 1919, Serial No. 333,014. Divided and this application filed June 1, 1920. Serial No. 385,645. 9 Claims. (Cl. 90—8.)

1. The combination with a reciprocating tool slide, of a pivoted clapper block, a tool secured to the clapper block, and means for tilting the clapper block on the return stroke of the tool comprising a friction clamp, a connecting rod slidable in the friction clamp, the clapper



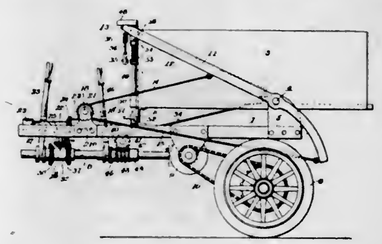
block having a recess therein, and a projecting portion carried by the connecting rod and engaging said recess.

1,378,630. STEAM-PRESSURE REGULATOR. COLE STICKLE, Indianapolis, Ind. Filed Aug. 11, 1919. Serial No. 316,806. 1 Claim. (Cl. 50—10.)



The combination with high and low pressure pipes, and reduction valve mechanism connecting them having an upwardly extending valve stem, of a frame rigidly mounted on said valve mechanism through which said valve stem reciprocates, a lever fulcrumed between its ends in said frame, a weight on each end of said lever, means for pivoting the lever to the valve stem for controlling it, a plunger mounted on the frame, a plunger rod extending therefrom and reciprocable in the frame and pivoted to said lever for actuating it, an auxiliary pipe connected with said plunger for operating it by fluid under pressure therein independently of the high pressure pipe, and means controlled by the fluid under pressure in the low pressure pipe for regulating the pressure in said auxiliary pipe.

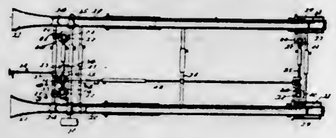
1,378,631. VEHICLE LOADING AND UNLOADING DEVICE. HERBERT C. STONE, Brooklyn, N. Y. Filed Mar. 9, 1920. Serial No. 364,465. 10 Claims. (Cl. 298—21.)



1. The combination with a vehicle and the body thereof, of a U-shaped traversing frame pivoted astride said body to swing in a vertical plane, the side members of said

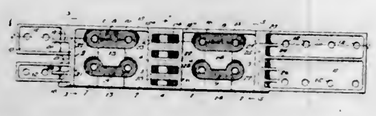
frame being intermediately pivoted to the vehicle, a shaft, cables wound in opposite directions on said shaft and connected to said side members of the frame at opposite sides of the pivots thereof, and means for actuating said shaft in either direction for swinging the frame in either direction.

1,378,632. AUTO-JACK AND POWER MECHANISM. RALPH S. SWOPE, Redfield, S. D. Filed Nov. 12, 1918. Serial No. 262,255. 3 Claims. (Cl. 254—89.)



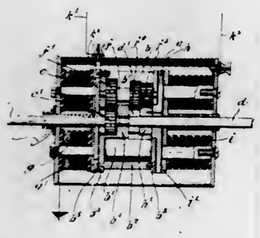
1. A mechanism of the class described having wheel tracks, jacks for engagement with the axle of an automobile, a drive shaft having treads or spools for contact with the treads of the drive wheels of the automobile, connections between said drive shafts and the jacks for communicating movement thereto, guides carried by certain of the jacks, the drive shaft extending through said guides, and springs tensioned between the drive shaft and the tops of said certain jacks, whereby the treads or spools of the drive shaft are maintained in contact with the drive wheels of the automobile as the latter is elevated by the jacks.

1,378,633. DRAFT-RIGGING. THOMAS H. SYMINGTON, Baltimore, Md., assignor, by mesne assignments, to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed June 30, 1917. Serial No. 177,930. 5 Claims. (Cl. 213—42.)



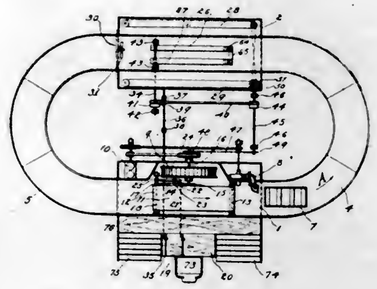
2. A cheek-plate for tandem spring draft rigging comprising a main web, a plurality of stop members extending inwardly therefrom and, respectively, forming the three main follower stops, and a plurality of longitudinally extending flanges spaced inwardly from said main web and respectively reinforcing said stop members, the spaces between said flanges and the main web opening upon the inner face of the cheek-plate.

1,378,634. VARIABLE-SPEED-TRANSMISSION MECHANISM. WALTER K. THOMAS, Brooklyn, N. Y. Filed Mar. 16, 1920. Serial No. 366,261. 15 Claims. (Cl. 74—34.)



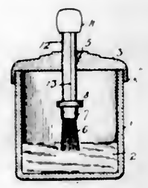
1. A variable speed transmission mechanism embodying therein a driving shaft, a member carried by and rotatable therewith, a gear wheel loosely mounted thereon, a driven shaft, a gear wheel carried by and rotatable therewith, a rotatable shaft carried by said member, gears carried thereby and rotatable therewith meshing with said gear upon said driving shaft and said gear upon said driven shaft respectively, an electromagnet and an armature coöperating therewith, one of which is carried by said member and the other of which is operative upon said gear wheel upon said driving shaft, and means controlling the circuit to said magnet.

1,378,635. AMUSEMENT APPARATUS. MORRIS UNGER, Pittsburgh, Pa. Filed Mar. 11, 1921. Serial No. 451,431. 10 Claims. (Cl. 104—73.)



1. In an amusement device of the character described, the combination of a plurality of transportable wagons provided with a channel-like bottom, and of water channels connecting said wagons.

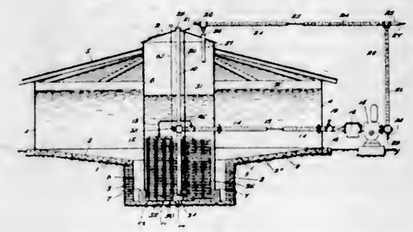
1,378,636. BRUSH FOR MUCILAGE AND PASTE BOTTLES. SALOMON VOS, Brooklyn, N. Y. Filed July 6, 1920. Serial No. 394,058. 4 Claims. (Cl. 91—67.2.)



1. A device of the class described comprising a cap adapted to be applied to a bottle or jar to support a brush, and a brush comprising a bristle portion, a shank slidable through said cap, an enlargement or knob on the upper end of said shank and an expansible sleeve surrounding said shank and frictionally engaging said cap and adapted to hold the brush at various elevations in relation to the cap.

1,378,637. METHOD AND APPARATUS FOR HANDLING ASPHALT. MARION P. WALL, Chattanooga, Tenn., assignor to One Fire Asphalt Plant Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed June 7, 1920. Serial No. 387,228. 9 Claims. (Cl. 257—205.)

5. In an apparatus for handling asphalt, the combination of an outer tank adapted to contain asphalt in a solid state; an inner tank adapted to hold asphalt in a molten state; a connection between said tanks; a steam coil in said inner tank; means to supply steam to said coil; a pump provided with a suction pipe surrounding said steam supplying means for withdrawing the molten asphalt from said inner tank; means to deliver a portion of said molten asphalt to the point of use; a steam pipe for maintaining the asphalt in its molten condition while



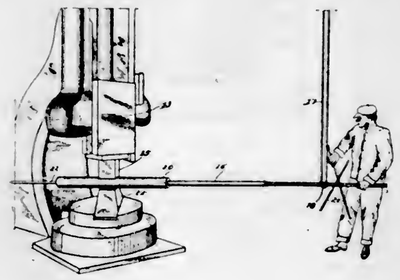
being conveyed by said last named means; and means for delivering another portion of said molten asphalt back into said inner tank, substantially as described.

1,378,638. SHADE-ROLLER BRACKET. HARVY M. WARD, Jay, N. Y. Filed Dec. 21, 1918. Serial No. 267,800. 1 Claim. (Cl. 156—23.)



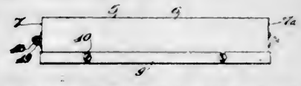
A shade roller support comprising a bar for transverse positioning on a window frame, the bar being provided adjacent each end with a pair of longitudinally disposed alining slots, shade roller supports provided with ribs and engaging one each in the endmost slots, set screws and washers engaging the rib and bar respectively for securing the said roller supports in place, pressure jaws also provided with ribs one each engaging in the remaining slots, the pressure jaws being provided with ears, the bar being provided with ears, and thumb screws threadingly engaging the ears on the bar and loosely engaging the ears on the pressure jaws with respect to which they are secured against longitudinal movement, and set screws and washers engaging respectively the ribs on the jaws and the bar, for the purpose specified.

1,378,639. PROCESS FOR FORMING METALLIC TUBES. EMILL WARNER, Chicago, Ill. Filed June 26, 1917. Serial No. 176,956. 1 Claim. (Cl. 78—81.)



The method of forging a metallic tube from a heated piece of metal having an opening therethrough, which consists in inserting a mandrel into said opening; then pounding the sides of the piece of metal while positioned on said mandrel; and manually, longitudinally and rotatively shifting said piece of metal during the pounding thereof, substantially as described.

1,378,640. LICENSE-INDICATOR. HERBERT O. WIEMANN, Chesterton, Ind. Filed Apr. 20, 1920. Serial No. 375,314. 1 Claim. (Cl. 40—132.)



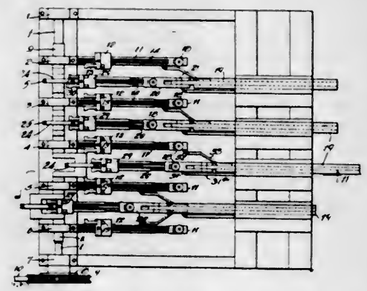
A license indicator comprising a casing having an open front, a frame fitted over the latter and composed of top, bottom and side sections, a stenciled license plate within the frame, a translucent plate behind the license plate, backing abutments for the latter, and screws entering opposite walls of the casing, corresponding walls of the frame having slots through which the screws pass, said slots running in a direction transverse of the casing and rendering the frame adjustable to the thickness of the license and translucent plates.

1,378,641. ART OF PRODUCING LIFELIKE SIMULATIONS TO INANIMATE OBJECTS. JOHN ERNEST WILLIAMSON, Norfolk, Va. Filed Mar. 19, 1917. Serial No. 155,962. 22 Claims. (Cl. 46—70.)



1. Means for producing life like motions of an inanimate object, comprising a main casing representing the body of said object, an elongated casing extending from the main casing, means for normally holding the elongated casing in a bent condition and air controlling means for varying a pressure uniform throughout the inner surface of the elongated casing to vary the effect of the bending means.

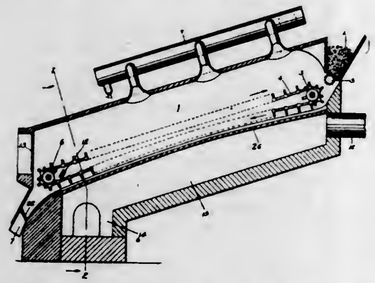
1,378,642. PROCESS AND MACHINE FOR MAKING CRANK-SHAFTS FOR ENGINES, COMPRESSORS, AND THE LIKE. LUCIEN I. YEOMANS, Chicago, Ill., assignor, by mesne assignments, to Amalgamated Machinery Corporation, Chicago, Ill., a Corporation of Delaware. Filed June 25, 1917. Serial No. 176,689. 16 Claims. (Cl. 82—9.)



1. A crank-shaft lathe having, in combination, means for supporting and rotating a crank-shaft, said shaft hav-

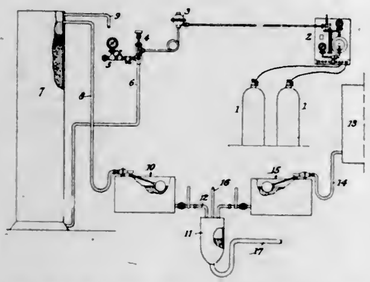
ing a disk of metal of low fusing point cast upon the middle portion of a crank pin of the crank-shaft, a tool carrier having a bearing adapted to contain said disk, a tool on said carrier positioned to turn a portion of the crank-pin at one side of said disk, and means for feeding the tool.

1,378,643. RETORT FOR EXTRACTING OIL, &c. AXEL V. YOUNG, De Beque, Colo. Filed Feb. 20, 1919. Serial No. 278,128. 4 Claims. (Cl. 196—19.)



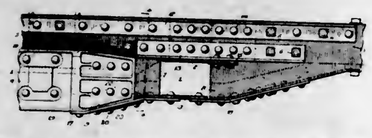
1. A retort of the character described, comprising a retort proper having an inclined bottom arched upwardly longitudinally thereof, a hopper, means to feed material from said hopper to the retort, sprocket wheels at opposite ends of the retort adjacent the bottom thereof, a conveyer chain mounted on said sprocket wheels to be driven thereby, said chain having depending pusher feet operative to push the material downwardly along said inclined bottom, and means to heat said retort.

1,378,644. PROCESS OF STERILIZING. JOHN C. BAKER, Ridgefield Park, N. J. Filed Sept. 13, 1919. Serial No. 323,650. 4 Claims. (Cl. 167—3.)



1. The process of sterilizing herein described, which consists in bringing together continuously during the period and at the rate of the use of the product the materials necessary for the production of an equeous solution of nitrogen trichlorid, and utilizing the same as it is produced as a sterilizing agent.

1,378,645. CAR-UNDERFRAME. DONALD S. BARROWS, Rochester, N. Y. Filed July 29, 1919. Serial No. 313,985. 5 Claims. (Cl. 105—420.)



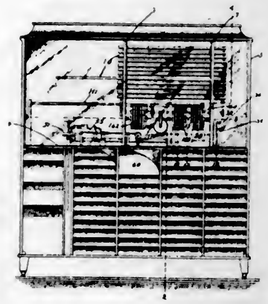
1. In a car underframe, the combination with wooden center sills of metallic draft plates connected to the vertical faces of the said sills, each of said metallic plates being provided with a depending portion, said portion gradually increasing in depth from a point in rear of the body bolster and being adapted to embrace the said bolster, and means for reinforcing the lower edges of said depending portions, said means comprising members connected to the lower member of the said bolster and extending forwardly and rearwardly thereof and adapted to underlie and to be connected to the adjacent portions of said plates.

1,378,646. GLOVE-FINGER-SUPPORTING TUBE. DAVID BAUM, Livermore Falls, Me. Filed Apr. 27, 1920. Serial No. 377,062. 3 Claims. (Cl. 223—20.)



1. A glove finger supporting device, comprising a tube having a circular series of outwardly bowed spring tongues at its end.

1,378,647. AUTOMATIC SOUND-REPRODUCING MACHINE. JAMES T. BEARD, Jr., Brooklyn, N. Y. Filed July 12, 1917. Serial No. 180,056. 96 Claims. (Cl. 274—10.)



1. In a sound reproducing machine, a record support and actuating means therefor, a record magazine, selectively operable mechanisms to move a single record from the magazine to a predetermined position with respect to the support, and additional means subsequently operable to convey the record to playing position upon the support.

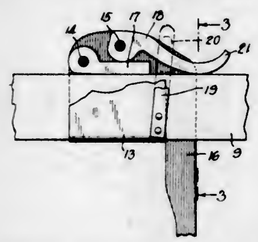
9. In a sound reproducing machine, a horizontally disposed rotary record table and actuating means therefor, a record magazine including independently movable record supports, means for selectively moving the supports to dispose a disk in predetermined relation to the table, automatically operable means to remove the disk from the support, and automatic means to reverse the movement of the support, said record removing means subsequently operating to position the record upon the table.

16. In a sound reproducing machine, a horizontally disposed record disk table and means for rotating said table, a normally stationary plate disposed below the upper surface of the table, and means for automatically elevating said plate upon the completion of the playing operation to move the record disk to a position above and in spaced relation to the table.

18. In a sound reproducing machine, a rotary record table, an actuating means therefor, a tone arm mounted for swinging movement above the table and equipped with a sound box swiveled thereon and having a reproducing stylus, electro-mechanical means for rotating the sound box to dispose the stylus in inoperative position, and additional electro-mechanical means to initially move the tone arm inwardly over the record disk, and then break the circuit of the first-named electro-mechanical means to release the sound box whereby the stylus is permitted to engage in the record groove.

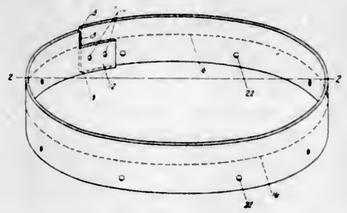
20. In a sound reproducing machine, a rotary record table and actuating means therefor, a tone arm mounted for swinging movement above the table and having a sound box swiveled thereon provided with a reproducing stylus, means operatively connected to the sound box to sustain the stylus in inoperative position, automatic means for initially swinging the tone arm inwardly to dispose the stylus in starting position above the record groove and including means operable to permit the sound box to rotate whereby the stylus may engage in the record groove and to also break the operative connection of said means with the tone arm to permit of the continued inward movement of the tone arm over the record independently of such initial positioning means.

1,378,648. PAPER-GRIPPING DEVICE. SAMUEL BECKER, Brooklyn, N. Y. Filed Sept. 16, 1920. Serial No. 410,643. 3 Claims. (Cl. 101—408.)



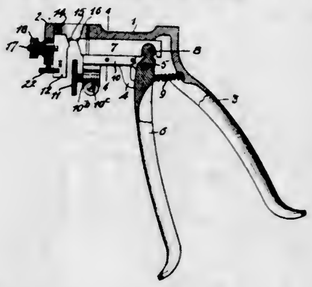
1. A paper gripping device comprising a platen adapted to receive paper, a plurality of paper gripping arms cooperating therewith, a plurality of slides on said arms, an integral resilient finger on each slide adapted to contact with the paper, a brake shoe on the slide adapted to contact with the arm, and a cam to hold the brake shoe against the arm.

1,378,649. COVER-SECURING HOOP. GEORGE H. BLISS, Boston, Mass., assignor to A. G. Bradish & Son, Inc., Boston, Mass., a Corporation of Massachusetts. Filed May 29, 1920. Serial No. 385,242. 1 Claim. (Cl. 217—89.)



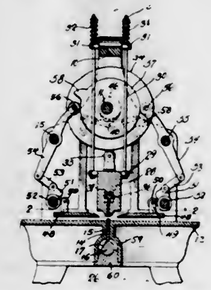
A hoop adapted to embrace the upper end of the periphery of a circular receptacle and secure a cover thereto, said hoop being formed from an elongated sheet metal strip having overlapping joint-forming portions 13 at its opposite ends, said portions overlapping and being united to form a joint which is narrower than the maximum width of the strip, so that the hoop has a continuous receptacle-embracing lower zone including said joint, and a bead-forming upper zone, the continuity of which is interrupted by a crevice above the joint, said upper zone being rolled inward after the formation of said joint to form a cover-securing bead, located entirely above said joint.

1,378,650. SAW-SET. CHRISTIAN BODMER, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 22, 1920. Serial No. 375,678. 1 Claim. (Cl. 76—69.)



In a saw set, a main body having a sight opening in its forward portion, a vertically adjustable anvil at the forward side of said body and in the zone of said sight opening, a plunger carried by said body portion and movable to and fro in a channel in the underside thereof and operating at right angles to said anvil, a cover plate for holding said plunger in place in said channel, a pair of depending clamping jaws adjacent the front end of said plate and having a threaded passage between them, a stop having a threaded stem adapted to said threaded passage and held by said jaws, said stop having a vertical saw supporting face adjustable to and fro only, and means carried by said jaws for locking said stop in adjusted position, and a lever carried by said body portion and operatively connected with said plunger to move the same.

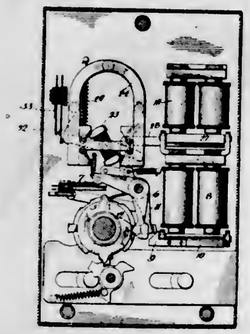
1,378,651. SHEET-METAL-SEAMING MACHINE. JOHN W. BROWN and WILLIAM HESS, Philadelphia, Pa., assignors, by direct and mesne assignments, to Benjamin P. Obdyke, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed June 27, 1919. Serial No. 307,150. 5 Claims. (Cl. 113—54.)



1. In a seaming machine, the combination of a frame, a table on the frame to support metallic sheets with ends overlapping, a former mounted to rise through the table beneath the overlapping ends of the sheets, a former block suspended over the table above the former, tucker shoes arranged at opposite sides of the former block and

bodily movable vertically and horizontally, means for raising said former, means for depressing the former block, means for advancing said tucker shoes downwardly toward the table and horizontally toward each other, a hammer in the former block, means for impacting the hammer toward said former, and a single operating device connected to all of said means for operating the same in sequence to form and seal the seam.

1,378,652. RECORDING-LOCK. JAMES W. BRYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,233. 3 Claims. (Cl. 234—1.5.)



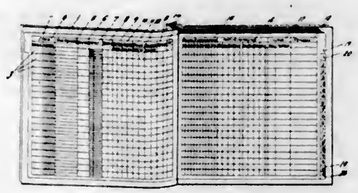
2. In a recording lock system, the combination with a lock, a recorder and intermediate circuits connecting the same, of a group of circuit closers in the lock in independent circuits and adapted to be set or operated in different combinations and permutations by the insertion of a key, of means in the recorder for establishing under the control of the lock circuit closers a circuit path which will correspond to the combination or permutation of circuit closers operated, a source of current and an indicating magnet and means for connecting them with the circuit established in the recorder.

1,378,653. SECONDARY CLOCK. JAMES W. BRYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed May 17, 1920. Serial No. 382,115. 3 Claims. (Cl. 58—27.)



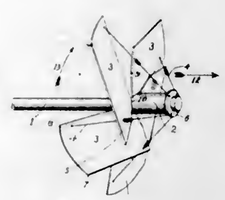
1. In a secondary clock of the kind herein described, the combination with the train of an accelerating device, comprising an electromagnet, a pivoted armature lever therefor, a ratchet wheel, the shaft of which constitutes a fixed stop for a projection on said armature lever, a spring actuated pawl lever pivoted to the armature lever and limited in its vibratory movement by a fixed stop thereon and normally engaging with the ratchet, a means, such as a fan wheel in gear with the clock train and under the control of the ratchet, these parts being so constructed and arranged that upon a movement of the armature lever under the magnetizing influence of the magnet, the pawl lever is moved out of engagement with the ratchet, but upon the cessation of magnetism and return of the said armature lever is moved back into engagement with the said ratchet.

1,378,654. INDUSTRIAL CAR-RECORD BOOK. JAMES R. BUCHANAN, Huntsville, Ala. Filed Oct. 20, 1919. Serial No. 331,838. 4 Claims. (Cl. 283—36.)



1. In a book of the character described, a plurality of series of leaves, leaves of each series comprising permanent and detachable tabs with like indexing indicia displayed thereon, the detachable tabs being superimposed in each series, and the last leaf of each series having its permanent tab underlying the detachable tabs of the preceding pages of its respective series.

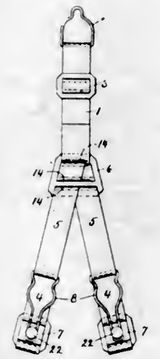
1,378,655. PROPELLER. CHARLES E. BURROUGHS, Cincinnati, Ohio. Filed Sept. 26, 1917. Serial No. 193,251. 1 Claim. (Cl. 170—169.)



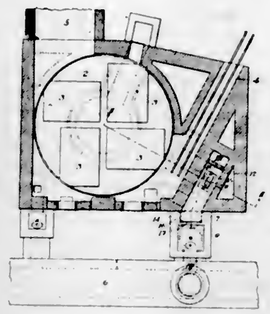
A propeller for air and water craft comprising an axis or driving-shaft, a sleeve or hub mounted on and adapted to rotate with said driving-shaft, a circular series of rectangular, plane-faced, flat blades projecting from said sleeve and having their respective outer ends slightly beveled and curved such curvature being that of an arc of a circle beginning at the outer left-hand corner of the respective blades and gradually rising or extending outwardly to the right-hand corner of each blade, and extensible guy-wires stretched from one blade to the next one of the series of blades and thence to the outer end of said sleeve and thereby adapted to adjustably sustain the flat plane-faced blades whereby the said driving-shaft shall always be longitudinally-oblique but not at any point at right-angles to any line of the plane of the flat surface of the several blades of the propeller, substantially as shown and described.

1,378,656. GARMENT-SUPPORTER. JAMES H. BURT, Springfield, Mass., assignor, by direct and mesne assignments, to Thrift-Garter Co. Inc., New York, N. Y., a Corporation of New York. Filed July 29, 1920. Serial No. 399,731. 4 Claims. (Cl. 241—1.)

1. As an improved article of manufacture, a hose supporter comprising a hanger, a pair of long tabs formed of a single strip connected with said hanger, and a pair of short tabs formed of two strips also connected with said hanger, all solely dependent on friction to hold them in place, said tabs being provided with stocking-fastening members.



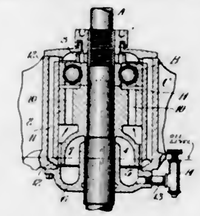
1,378,657. FLATTENING-OVEN FURNACE. HENRY F. CLARK, Pittsburgh, Pa., assignor to Window Glass Machine Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 7, 1918, Serial No. 233,005. Renewed Oct. 9, 1920. Serial No. 415,949. 4 Claims. (Cl. 158—1.)



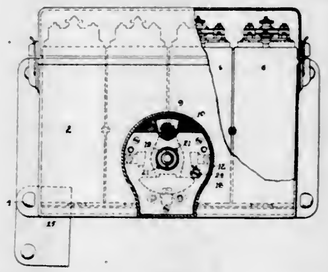
1. A glass flattening oven having a flattening chamber, a shove-in opening at one side of such chamber, a combustion chamber at the outer side of the shove-in opening, an air chamber below the floor of the combustion chamber, a gas chamber or passage below the floor of the air chamber, the floors of the combustion and air chambers having vertically alined openings therein, and a tube extending vertically through the air chamber and connecting the said openings, said tube having an upwardly converging interior passage, and there being a space around that portion of said tube within the opening of the floor of the combustion chamber through which air from the air chamber can pass into the combustion chamber; substantially as described.

1,378,658. LUBRICATOR FOR BALL-BEARINGS. FRANK H. CLEMENT, Rochester, N. Y.; Louisa S. Clement, Mary G. Clement, and Benj. H. Clement, executors of said Frank H. Clement, deceased, assignors to American Woodworking Machinery Company, Rochester, N. Y., a Corporation of Pennsylvania. Filed Dec. 28, 1918. Serial No. 268,736. 7 Claims. (Cl. 64—56.)

1. The combination with a ball bearing housing and a revoluble spindle therein carrying a ball bearing, of a sleeve secured to said spindle concentrically therewith and closely fitting the housing lugs on the periphery of the sleeve projecting into a body of oil contained in said housing, and having their sides angled with reference to the axis of the spindle, whereby the oil is forced outward and upward to the ball races and a by-pass in the housing for the return of the oil.

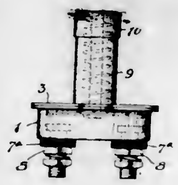


1,378,659. SAFEGUARD FOR ELECTRIC CIRCUITS. WARREN R. COX, Cleveland, Ohio. Filed Oct. 1, 1917. Serial No. 194,116. 19 Claims. (Cl. 175—357.)



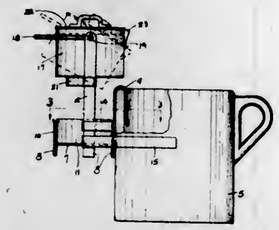
1. A coil box, sparking units removably mounted in said box, an electric switch and means for establishing and grounding an electric circuit for said units, and key-controlled mechanism to operate said switch and prevent removal of said units from said box.

1,378,660. SWITCH. CHARLES F. CUNO, Meriden, Conn. Filed Feb. 12, 1920. Serial No. 358,042. 8 Claims. (Cl. 200—159.)



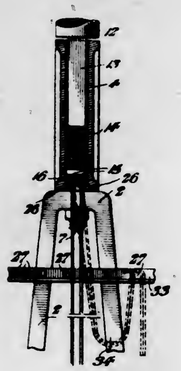
1. In a switch of the character described, a housing, a metallic channeled piece resting in the bottom thereof, a channeled piece of insulating material resting in said metallic channel and supported thereby and projecting upwardly therefrom, a plurality of terminal pieces located in the bottom of said insulating channel, each of said terminal pieces having a shank extending through said parts but insulated therefrom with means on each of said shanks for holding all of said parts assembled, a switch blade located in the channeled insulating piece and guided thereby and arranged to electrically bridge the said terminals when moved into contact therewith, and means for carrying said blade and for moving the same into and out of contact with said terminal pieces.

1,378,661. SHAVING-MUG ATTACHMENT. CHARLES J. DARABAN, Chicago, Ill., assignor of one-half to Herman Allen, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,052. 6 Claims. (Cl. 132—80.)



3. A device of the class described comprising a hook adapted to engage the edge of a shaving mug; clips operatively connected with said hook adapted to engage the sides of the mug; means for supporting a burner from said hook at the side of the mug; standards operatively connected with said hook and said clips and extending above the hook; and a tank pivotally mounted on said standards in position to empty into the mug when tipped about its pivotal axis, substantially as described.

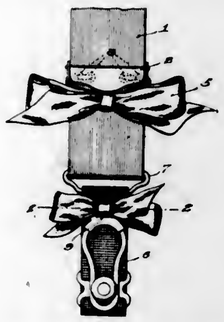
1,378,662. MACHINE FOR MAKING MACARONI. ANTONIO DI DOMENICA, Philadelphia, Pa. Filed Jan. 10, 1920. Serial No. 350,516. 3 Claims. (Cl. 107—14.)



1. A machine of the character stated, comprising in combination, a frame-work, a trough therein, a removable apertured floor for said trough, a plunger within said trough, means for actuating said plunger, a plurality of cores for said apertured floor, each of which comprises a body portion extending between two of the above mentioned floor apertures, having its ends bent at substantially right angles and positioned axially within a pair of apertures, means for elevating said plunger, and means below said trough for receiving and supporting material expressed therefrom in loop-like form.

1,378,663. HOSE-SUPPORTER. CHRISTOPHER C. DONAHUE, Bridgeport, Conn. Filed Dec. 2, 1920. Serial No. 427,727. 2 Claims. (Cl. 241—1.)

1. In a hose supporter, a tape having a looped end for supporting a metal part of the structure, an integral eyelet having spaced eyes for securing the end of the loop



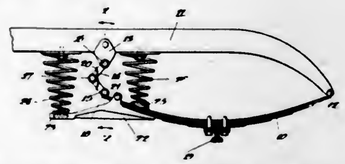
to the tape body, and a ribbon threaded through each of the eyes and tied into a knot.

1,378,664. MOLDING. HERBERT R. DUCKWALL, Indianapolis, Ind. Filed Sept. 3, 1919. Serial No. 321,488. 2 Claims. (Cl. 155—184.)



1. An upholstering molding comprising a flexible core strip, headed fasteners extending through said core strip with their heads flush with the outer curved surface of said strip, a cushion strip of yielding material lying adjacent to and covering the top and sides of the surface of said core strip and the heads of the fasteners, and a surface strip conforming to the curved surfaces of said core strip and cushion strip and surrounding both of said strips for providing the finished outer surface.

1,378,665. SHOCK-ABSORBER. PETER DU FORD, Ontario, Oreg. Filed May 20, 1919. Serial No. 298,449. 6 Claims. (Cl. 267—28.)

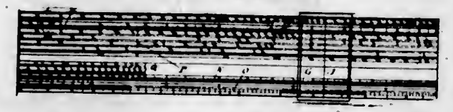


1. The combination with a leaf spring, of toggle levers yieldingly supporting one end thereof, and means for controlling yielding movement of said end of the spring including a bearing bracket connected to, and projecting beyond, the spring end, and a volute spiral compression spring engaging the said bracket beyond the leaf spring.

1,378,666. CALCULATING DEVICE. HARRY L. EASTMAN and FRANK B. RAE, Cleveland, Ohio, assignors, by direct and mesne assignments, of four-tenths to said Rae and six-tenths to said Eastman. Filed July 21, 1916. Serial No. 110,484. 4 Claims. (Cl. 235—70.)

4. A calculating device for use of printers, etc., comprising a base member having a graduated logarithmic

scale arranged thereon and also having a graduated type scale, the graduations of the type scale having a progression similar to the graduations of the logarithmic scale, said type scale indicating the number of ems of type which could be set up in a line of the length indicated by the various graduations of the logarithmic scale, a slide cooperating with the base, said slide having a graduated reducing scale thereon and a graduated enlargement scale



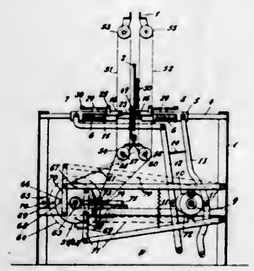
thereon, the graduations of the enlarging scale having a progression which corresponds with the progression of the logarithmic scale, the graduations of the reducing scale having progression similar to the logarithmic scale but in opposite direction, the designations of its graduations progress reversely with respect to the graduations of the logarithmic scale, for the purpose described.

1,378,667. CABLE-CLAMP. GRANDON E. ECKERT, East Liverpool, Ohio, assignor to The R. Thomas & Sons Co., East Liverpool, Ohio, a Corporation of Ohio. Filed Oct. 19, 1920. Serial No. 418,121. 6 Claims. (Cl. 24—135.)



5. A suspension clamp, comprising a suspension bolt with threaded shank, a pair of complementary cable clamping members, the lower of which is longitudinally channeled to afford a cableway, and provided with upwardly extending side guide wings for holding the cable in said way, lateral projections at the mid-areas of said clamping members arranged to one side of said way and pierced to permit the passage of the bolt therethrough, and a nut on said bolt shank for drawing said clamping members together.

1,378,668. AUTOMATIC EMBROIDERING-MACHINE. OTTO FAHRNI, Thoune, Switzerland, assignor to Walter Gerber, Thoune, Hofstetten, Switzerland, and Ernst Schneider, Bächimatte, Thoune, Switzerland. Filed Nov. 17, 1920. Serial No. 424,758. 13 Claims. (Cl. 112—94.)



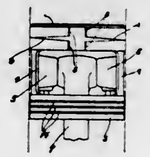
1. In an embroidering machine of the class described, the combination with a framework, and an embroidering frame movably mounted therein, of a slide mounted on the framework to move to and fro perpendicularly to said frame, needle-holders carried by said slide, a thread-tightening member mounted in the framework at the same side of said frame as said needleholders, and means adapted to be controlled by a pattern card and arranged to move said member a shorter distance each stitch corresponding to the consumption of thread, substantially as described.

1,378,669. FIGURE FOR BALLROOM DANCING PRACTICE. SIDNEY E. FEIST, Brooklyn, N. Y. Filed Feb. 3, 1921. Serial No. 442,225. 5 Claims. (Cl. 35—16.)



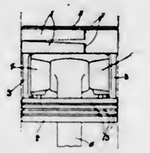
1. A figure used in dancing instructions comprising a body, a leg connected with the back of the body and out of the way of the feet of a student using the figure and means for connecting a student's hand to the body near the back thereof.

1,378,670. PISTON. JOHN FLAMMANG, University City, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed Sept. 24, 1919. Serial No. 325,993. 10 Claims. (Cl. 74—108.)



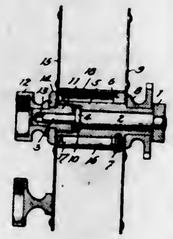
1. A piston, comprising a pair of split resilient annular members, each of which has one end free and its opposite end integrally united with the piston body, said members tapering from their union with the piston body to their free ends.

1,378,671. PISTON. JOHN FLAMMANG, University City, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed Sept. 24, 1919. Serial No. 325,994. 10 Claims. (Cl. 74—108.)



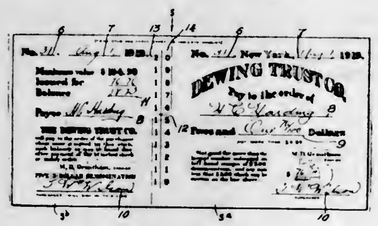
1. A piston, comprising a split resilient annular member, integrally united with the piston body and having its ends overlapping in contact with each other throughout their length.

1,378,672. RIBBON-SPOOL FOR TYPEWRITERS. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Original application filed Dec. 14, 1914, Serial No. 877,216. Divided and this application filed Aug. 17, 1918. Serial No. 250,315. 7 Claims. (Cl. 242—70.)



1. The combination with a hub section, of a spindle rotatably supporting said section, means retaining the hub section against endwise movement on the spindle, a second hub section also rotatable on the spindle and movable longitudinally thereof to connect with the hub section first named and a ribbon shell rotatable with the hub sections and removable when said hub sections are disconnected.

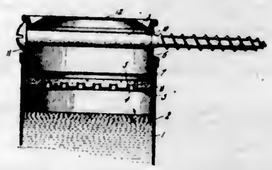
1,378,673. NEGOTIABLE PAPER. CLAUDE D. GRATON, Newark, N. J. Filed Sept. 23, 1919. Serial No. 325,627. 3 Claims. (Cl. 283—9.)



1. A negotiable paper comprising a stub section and a check section having two columns of figures positioned at the juncture of said stub section and check section arranged so that adjacent numbers of respective columns are read together before the check is torn from its stub, said check being capable of being torn from the stub so as to leave any number of the combined column of figures on the check section or any single number on the check section, said check section having printed matter thereon directing a certain institution to pay the sum written thereon, a line for said sum, a line for the payee's name and a line for the payor's name, said check having in the printed matter means indicating the denomination of the check which denomination is multiplied by the highest number left on the check from said two columns of figures when the check is torn therefrom, and a line arranged on the stub section for receiving in writing figures indicating the value of said check.

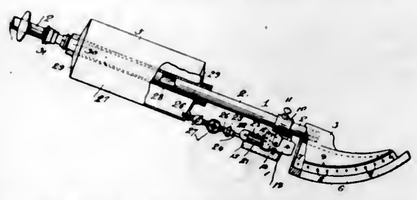
1,378,674. CONTAINER. JOHN LAFOUREADE HAMILTON, Boston, Mass., assignor to Safandshur Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 25, 1920. Serial No. 419,465. 5 Claims. (Cl. 169—35.)

1. A container for fire extinguishing liquid comprising a body for receiving a liquid, a cover formed in said body having perforations therein arranged so that the material pressed therefrom forms spurs extending outwardly whereby when the liquid is passing through said perforations the spurs will finely divide the same so as to produce



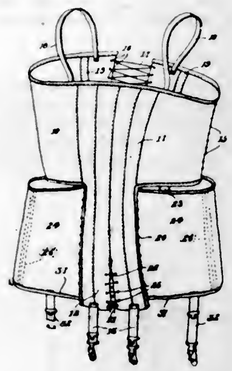
a better distribution in a minimum time, a gasket arranged on said cover, and a cap engaging said gasket for sealing the end of the container carrying said perforations.

1,378,675. AUTOMATIC ASPHALT-SMOOTHING IRON. ARTHUR E. HAUCK, New York, N. Y.; Adolph H. Stein executor of said Arthur E. Hauck, deceased. Filed Oct. 16, 1919. Serial No. 330,959. 3 Claims. (Cl. 158—27.)



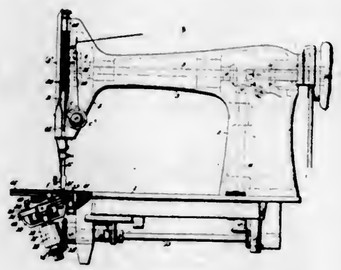
2. In a device of the class described, a handle with a smoothing iron fixed to one end thereof, a burner and a tank slidably mounted on said handle and means for fixing them at any desired location so that the flame may be projected so as to heat the smoothing iron with the desired intensity when the device is in use.

7,378,676. DETACHABLE BRASSIÈRE AND CORSET COMBINATION. FRANCES HEINDRICH, New York, N. Y. Filed July 30, 1920. Serial No. 400,051. 5 Claims. (Cl. 2—73.)



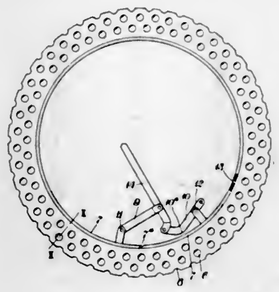
1. In a garment of the class described, a brassière having a complete body encircling portion and a front central portion extending downward, a corset having a front vertical opening, and means carried on the side edges of the downwardly extending portion of the brassière and the edges of the front corset opening to connect said edges and thereby unite the brassière and corset.

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1. In a sewing machine, in combination, a reciprocating needle, a circularly moving loop-taker, a take-up, a thread-case support sustained by said loop-taker, and a thread-case sustained by said support, said thread-case being formed with an elongated thread-mass cavity whose longest dimension is inclined upwardly at an acute angle to the needle-path substantially coincident with the plane of action of the loop-taker, and substantially at right angles to the line of seam-formation.

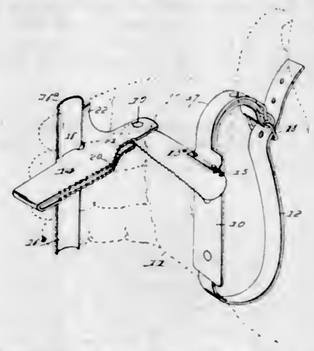
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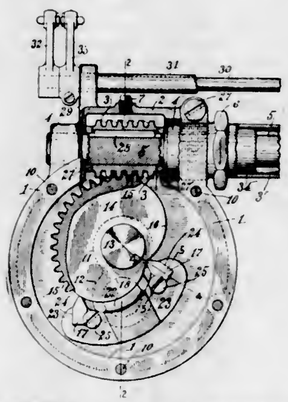
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A heading implement having pivotally connected fixed and movable blades, means attachable to the hand of an operator for supporting one of said blades, and means carried by the other blade for receiving the pressure of the fingers of said hand, one of the blades being provided with spaced parallel cutting edges separated to receive the cutting edge of the other blade and having its said



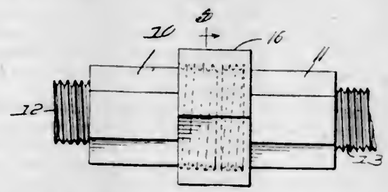
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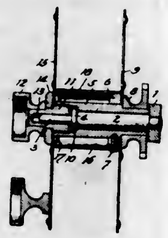
1. In a steering mechanism, a steering post, a cam mounted independently of said steering post and rotatable in a fixed plane, a connection between said cam and said steering post to enable said cam to be moved in either direction by said steering post, a rocker mounted independently of said cam and having parts arranged in said fixed plane to engage the periphery of said cam at points on opposite sides of its axis, whereby the movement of said cam in said fixed plane will actuate said rocker, and a steering arm connected with said rocker.

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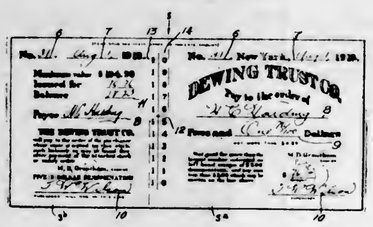
A nut lock consisting of two internally threaded sleeves enlarged at one extremity and provided with threads

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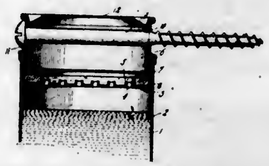
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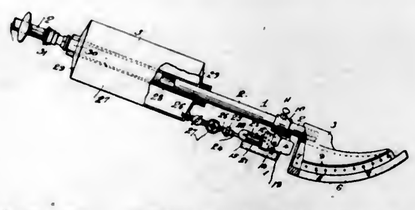
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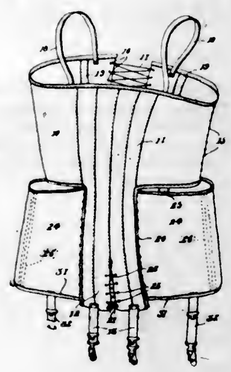
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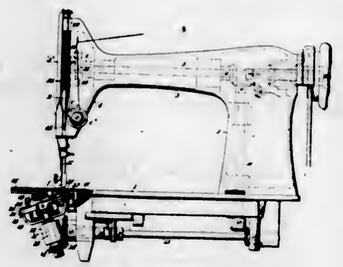
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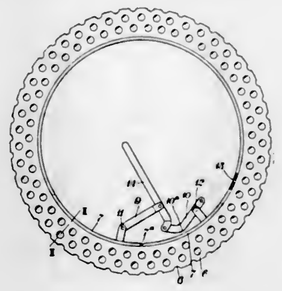
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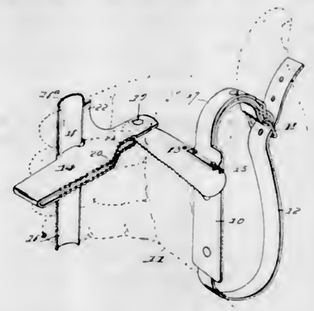
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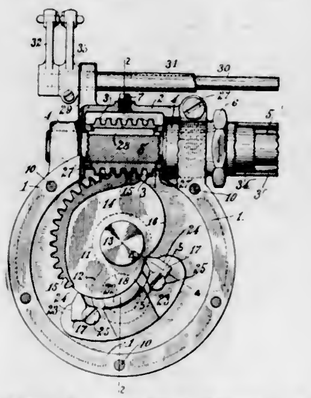
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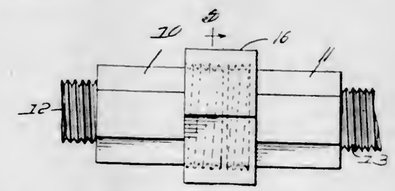
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1. In a steering mechanism, a steering post, a cam mounted independently of said steering post and rotatable in a fixed plane, a connection between said cam and said steering post to enable said cam to be moved in either direction by said steering post, a rocker mounted independently of said cam and having parts arranged in said fixed plane to engage the periphery of said cam at points on opposite sides of its axis, whereby the movement of said cam in said fixed plane will actuate said rocker, and a steering arm connected with said rocker.

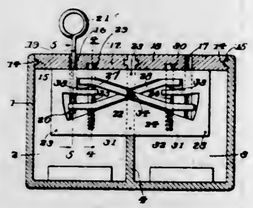
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A nut lock consisting of two internally threaded sleeves enlarged at one extremity and provided with threads

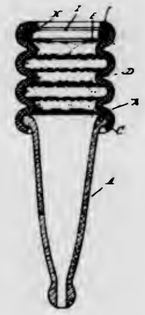
thereon the reverse of the internal threads, and a locking ring threaded to engage said internal threads and provided with an inturned flange or stop at one end for abutting engagement with the shoulder formed at the enlarged portion of one of the said elements, both the elements and the locking ring being provided with a wrench seat.

1,378,682. MONEY-RECEPTACLE. CHARLES W. KIRKPATRICK, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,797. 4 Claims. (Cl. 232—6.)



1. A money receptacle comprising a casing of lock free exterior finish, having a money receiving opening therein, another opening in said casing, a movable cover for said receptacle, locking means including a spring actuated plunger and interconnected lever located within the receptacle, and a key provided with a hook end designed to be inserted through the aforesaid opening and engage the free end of the aforesaid lever for manipulating the locking mechanism and releasing the cover.

1,378,683. TEAT-CUP FOR MILKING-MACHINES. BERNARD A. KNOWLES, Azalia, Mich. Filed June 19, 1920. Serial No. 390,145. 4 Claims. (Cl. 31—102.)



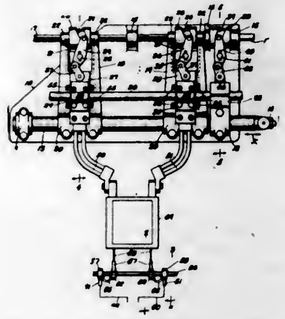
1. The combination with a tubular rigid body for supporting the teat, of a member formed of flexible elastic material molded and disposed to permit collapse of the member longitudinally under atmospheric pressure, said member having a longitudinally adjustable engagement with the upper end of the rigid tubular body.

2. The combination with a rigid tubular body member for supporting the teat, of a longitudinally collapsible flexible extension at said body having a series of annular corrugations therein for alternative engagement with said body to vary the total length.

3. The combination with a rigid tubular body portion for supporting the teat, of a flexible member forming an extension at the upper end of said body, said flexible member having a series of annular corrugations therein, imparting flexibility thereto for longitudinal collapsing, and said corrugations also forming adjustable means of engagement with said rigid body to alter the total length thereof.

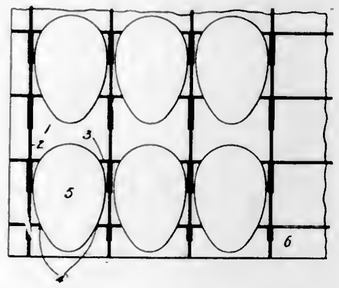
4. The combination with a rigid tubular body portion for supporting the teat, of a flexible extension provided with a series of annular corrugations, a bead on said body portion for alternative engagement with the several corrugations to alter the total length, a sealing diaphragm apertured for engagement with the teat and provided with a peripheral rigid reinforcement for sealing engagement with said extension.

1,378,684. ELECTRIC HEATING APPARATUS. FRANK P. KOBERT, Amityville, N. Y. Filed June 5, 1920. Serial No. 386,864. 16 Claims. (Cl. 219—11.)



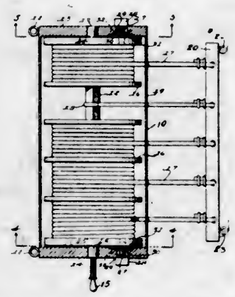
1. A heating apparatus comprising two movable electrodes, said electrodes being spaced longitudinally of and adapted to engage a workpiece to feed it into a suitable machine, and means whereby said workpiece will be heated in the operation of feeding the same into a machine by said electrodes.

1,378,685. EGG-PACKING. MORRIS KOPPELMAN, Brooklyn, N. Y. Filed Jan. 10, 1921. Serial No. 436,040. 12 Claims. (Cl. 217—35.)



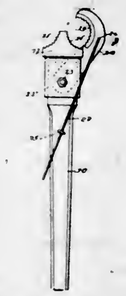
1. The combination of a plurality of compartments having vertical walls adapted to inclose the medial portion of an egg, but being of depth materially less than the length of the egg to be placed therein, a sheet of material extending over the said compartments provided with openings of a size to receive the end portion of an egg and to permit the egg to extend therethrough to a sufficient extent to bring its side surfaces in contact with the edges of the opening between the end and the medial portion thereof, a sheet of material extending under said compartments provided with similar openings, whereby the medial portion of each egg is surrounded by the compartment, with the end portions thereof extending through the openings and beyond the top and the bottom thereof, and the egg is held against vertical as well as lateral movement, by frictional coaction between its sides and the edges of the openings.

1,378,686. CLOTHESLINE-REEL. KAZIMIERAS L. KRIŽEVIČIUS, New Haven, Conn. Filed July 20, 1920 Serial No. 397,585. 1 Claim. (Cl. 242—101.)



In a device of the character described, a means for locking and unlocking the line reels, comprising pins adapted to be engaged into any of a plurality of holes in said reels, pegs on said pins to both sides of the same and heads on the outer ends of the pins for limiting the movement of said pins in one and the other directions substantially as described and for the purpose set forth.

1,378,687. WRENCH. GEORGE KUHNS, Temple, Okla. Filed Apr. 1, 1920. Serial No. 370,498. 1 Claim. (Cl. 81—98.)



A wrench having its shank provided at one end with a bifurcation forming parallel spaced ears, fixed jaw members having oppositely directed concaved faces and also provided at their inner sides with cavities or seats for receiving said ears, a common bolt extending through the ears and the fixed jaw members for securing the latter in operative relation with the handle, and a pivotal jaw mounted upon said bolt in the interval between the spaced ears and having a concaved gripping face for opopsing relation with the faces of the fixed jaw, a bushing being interposed between said bolt and the movable jaw.

1,378,688. SHOESTRING-TIP. ALLSTON C. LADD, Turlock, Calif. Filed June 30, 1920. Serial No 392,983. 1 Claim. (Cl. 24—143.)



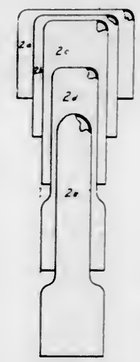
As a new article of manufacture, a shoe string, tips on the outside of the ends of the shoe string, integral spring tongues on the tips facilitating the movement of the string through an eyelet in one direction and preventing the accidental retrograde movement of the string through an eyelet.

1,378,689. OIL-BURNER. JOHN ANDREW LARSON, Glendale, N. Y. Filed June 2, 1920. Serial No. 385,992. 2 Claims. (Cl. 158—38.)



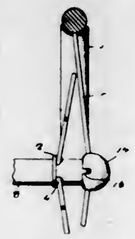
1. A burner, including a bowl, tubes extending through said burner bowl and terminating at a point above the same, a feed pipe having one of its ends projecting through said burner bowl at a centrally located point within the same, and a screening enveloping the end of the feed pipe, said screening extending within the burner bowl.

1,378,690. METHOD OF MAKING CONNECTING-RODS. HEBRON BERNARD LAYMAN, New York, N. Y., assignor to the Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 24, 1916. Serial No. 93,052. 31 Claims. (Cl. 29—156.5.)



1. The process of forming a connecting rod shell, which consists in fashioning the said shell in tubular form from a single piece of relatively thin material and then separating the shell through one end to form a cap.

1,378,691. HUB-CAP. THOMAS LEBLANC, West Gardner, Mass. Filed Nov. 11, 1919. Serial No. 337,373. 2 Claims. (Cl. 301—108.)



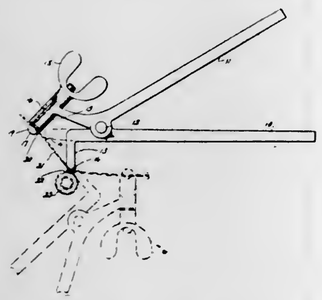
1. A hub cap having notches in its edge to receive wheel spokes and also having wall portions to close the mouths of the notches and thereby connect the cap of itself to spokes.

1,378,692. DISPLAY-RACK. ANCEL B. LEFFEL, Springfield, Ohio. Filed Dec. 6, 1920. Serial No. 428,711. 3 Claims. (Cl. 211—14.)



2. In a displaying apparatus for fabrics, a support comprising a frame constructed of angle irons, hollow holders for the fabrics to be displayed, pivotally secured to the longitudinal members of the support, each of said holders having its outer end closed and its bottom formed with a central opening extending entirely therethrough, the bottom wall of the holder having upstanding flanges at the confronting edges thereof dividing the interior of the holder into spaced compartments or pockets, the fabrics to be displayed having their ends folded and received in the respective compartments, and a cross sectionally round weighted element arranged in each of the folds for holding the upper ends of the fabrics in the respective compartments.

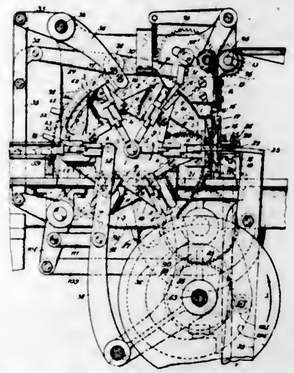
1,378,693. COUPLING-FASTENER. JOHN E. LENHOLT, Guilford, Conn., assignor of one-half to Charles R. Tainter, Guilford, Conn. Filed Oct. 22, 1919, Serial No. 332,483. Renewed Oct. 20, 1920. Serial No. 418,342. 2 Claims. (Cl. 81—9.3.)



2. In a device of the character described, the combination with a pair of pivotally connected arms, one of said arms being notched at the end thereof adjacent to the pivotal connection and the other arm having a head at the end thereof, a jaw having a shank slidably mounted thereon, with means for securing said jaw in its closed position, said jaw having a head thereon which extends upon either side of said shank, whereby two pieces may be secured by said jaw with an open space between them; and a lip upon each of said projecting portions of said head which register with a detent in the head on said arm.

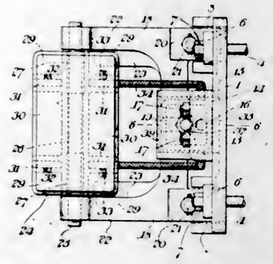
1,378,694. APPARATUS FOR WRAPPING UP ARTICLES OF PARALLELEPIPED FORM. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed Oct. 29, 1919. Serial No. 334,290. 5 Claims. (Cl. 93—2.)

1. An apparatus for wrapping articles of parallelepiped form, comprising means for gripping the article to be wrapped, means for moving the article to be wrapped against the wrapper, and then moving both article and wrapper into said gripper, means for stepping the gripper past a folding surface to bend the projecting edge of the wrapper at right angles, means for tucking the edge of the wrapper into the gripper to overlap the opposite edge of the wrapper, end folding mechanism folding the ends



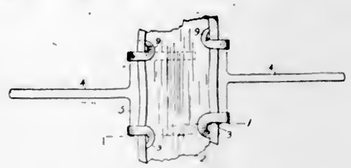
into peaks at substantially the middle of the ends and means to fold the peaks over onto the back of the package as it is discharged from the gripper.

1,378,695. CONTACT-SHOE. HENRY G. LEWIS and WALTER S. MAYER, Philadelphia, Pa., assignors to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1918. Serial No. 263,259. 9 Claims. (Cl. 191—49.)



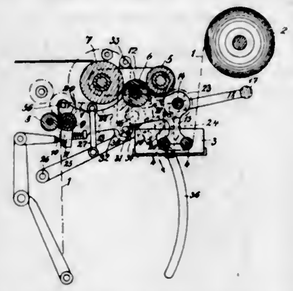
1. In an electrical contact device, the combination with a supporting member, of an oscillatory member connected in reversible relation thereto, a contact member carried by said oscillatory member, and mechanism comprising reversible means whereby said oscillatory member can be pressed in opposite directions.

1,378,696. TIRE-TOOL. NICOLAUS LEWSEN, Portland, Me. Filed Mar. 19, 1920. Serial No. 367,202. 10 Claims. (Cl. 152—27.)



10. A tire tool, including a handle bar having a longitudinal arm arranged to engage the exterior of a tire for turning the same inside out, and means located on opposite sides of said arm for engaging the tire at the bead thereof, said means having hook-shaped terminal portions with rounded ends projecting laterally of the tool and extending outwardly at a direction longitudinally of the tire.

1,378,697. ROLLER COPYING-MACHINE. EDMUND LICHTENSTEIN, Berlin, Germany. Filed Aug. 7, 1920. Serial No. 402,035. 12 Claims. (Cl. 91—13.5.)



1. A roller copying machine comprising in combination working rollers adapted to be separated the one from the other, for the introduction between them of a web of paper supplied by a supply roller and a cutting device provided with cutters for cutting said web into separate sheets, some of said members being movable relative to others in such a way, that the web may be introduced between said rollers and between said cutters without the use of special introducing means and without the operator having to put his hands between said cutters or said rollers, or to separate or to swing away any part of the main frame.

1,378,698. NAIL-SET OR PUNCH. ARTHUR LINDSTROM, South Bellingham, Wash. Filed Nov. 22, 1920. Serial No. 425,791. 5 Claims. (Cl. 145—46.)



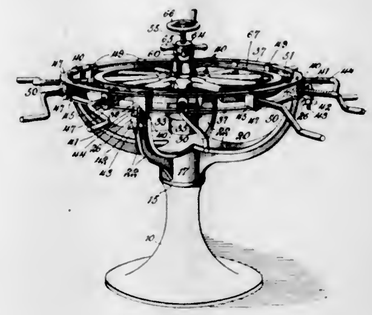
1. The combination of a series of interchangeable tool sections each having a characteristic tool end and all cooperating simultaneously to form an effective tool, and means independent of the said sections for holding them in assembled position with the smaller end of one section projecting beyond said holding means.

1,378,699. METHOD OF TREATING ORES. RICHARD L. LLOYD, New York, N. Y., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 22, 1919. Serial No. 319,266. 3 Claims. (Cl. 75—18.)

1. The herein described method for treating a zinc-bearing ore or material containing a negligible quantity of sulfur, the same consisting in mixing with a mass of such material a reducing agent, subjecting the commingled materials to a temperature lower than that at which zinc reduces and volatilizes, then subjecting the mass to the action of a solvent and dissolving out therefrom the zinc component.

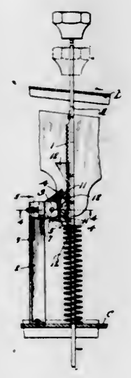
1,378,700. WHEEL-COMPRESSING MACHINE. FRANK LOUFEK, Cedar Rapids, Iowa. Filed Aug. 28, 1919. Serial No. 320,371. 3 Claims. (Cl. 157—1.)

1. In a wheel compressing machine, a support composed of a plurality of arms, each arm having a curved or arched formation, said arms rising from a central portion consisting of a depending sleeve, a boss above the sleeve, and an upstanding threaded flange rising from the boss, all of said parts being formed from a single casting, an



adjustable center rest composed of a hub engaging conical portion and a depending interiorly threaded flange engaging with the first-mentioned flange, a hub clamping bolt passing through the center rest and engaged with the boss, and a cone mounted on the bolt above the center rest.

1,378,701. FULL-STROKE COMPELLING DEVICE. GORDON H. LYLE, East Falls Church, Va. Filed May 28, 1918. Serial No. 237,087. 5 Claims. (Cl. 235—129.)

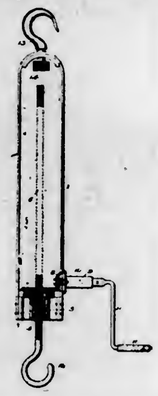


2. In a calculating machine, the combination of an operating key, rack means thereon, a plate slidable transversely of the key and constituting a pawl carrier, pawls mounted on said pawl carrier and adapted to alternately co-act with the rack means of the key, and means on the key for causing sliding movement of said carrier to shift one pawl into engagement with the rack means while the other pawl is being shifted out of such engagement, the pawl carrier being provided with an opening through which the key operates.

1,378,702. WIRE AND CABLE PULLER. VERNON M. MCDONALD, Denver, Colo., assignor of fifty-five one-hundredths to James Robert Kearney, Kansas City, Mo. Filed Mar. 10, 1920. Serial No. 364,779. 4 Claims. (Cl. 254—67.)

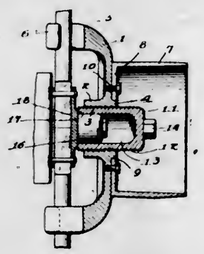
1. The combination with a frame made of a bar of metal bent at the center, a casting having a bore connect-

ing its ends, a bushing rotatable in the bore, and means for turning the bushing, of a tension-rod having threads



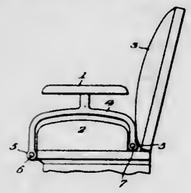
which the internal threads of the bushing engage, whereby said rod is moved endwise as the bushing is turned.

1,378,703. PULLEY ATTACHMENT FOR AUTOMOBILES. LEO VINCENT MCLAUGHLIN, Chester, Pa. Filed Mar. 30, 1921. Serial No. 456,891. 3 Claims. (Cl. 74—106.)



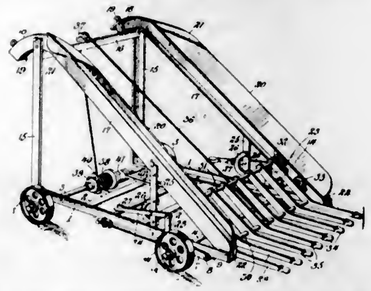
1. In an apparatus of the class described, a spider member comprising a body, a hub portion and hook arms adapted to engage the spokes of the wheel, a threaded bell member in threaded engagement with the hub of the spider member and chambered to fit over the hub cap of the wheel and engage the shoulder of the hub adjacent thereto, a pulley member secured to said spider member and means on said bell-screw member for receiving a wrench by which it may be turned.

1,378,704. ARMREST. WALTER JAMES MCPARTLAND, Cambridge, Mass. Filed Aug. 9, 1920. Serial No. 402,143. 1 Claim. (Cl. 155—112.)



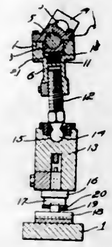
An arm rest for use in conjunction with the seats of automobiles, railway cars and the like, comprising an arm rest, a support therefor adjustable longitudinally of a seat, and longitudinal connections in parallelism to the seat and on which the support is adjustable; the support being maintained above the seat whereby the arm rest may be positioned at various points intermediate of the ends of said seat.

1,378,705. BEET-LOADER. WILLIAM MABLE, Fort Collins, Colo., assignor of forty-nine one-hundredths to Carl C. Christensen, Fort Collins, Colo. Filed June 14, 1919. Serial No. 304,185. 5 Claims. (Cl. 214—108.)



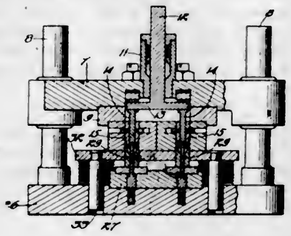
1. A beet loader comprising a vehicle with inclined channel tracks on opposite sides, with the channels facing each other and each curved downwardly at the upper end, a carrier provided with rollers spaced apart lengthwise thereof and adapted to run in the channels, each curved portion having stop means at its extremity for the rollers, said stop means coöperating with the curved portions to tilt the carrier to dumping position, said stop means being removable so that the carrier may be replaced by another carrier.

1,378,706. DWELLING PITMAN. GEORGE P. MALLORY, Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Aug. 30, 1919. Serial No. 320,809. 1 Claim. (Cl. 74—47.)



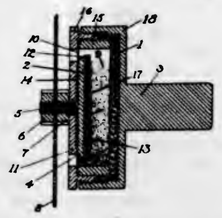
In combination with a crank shaft, a crank and a crank pin, a dwelling pitman carrying at its lower end a presser member, and having a head formed with a slot extending longitudinally in from the end thereof, and having an expansible bearing for the crank pin, said expansible bearing comprising two members separable from each other, each having a semi-cylindrical groove, the two grooves together forming a cylindrical bearing for the crank pin when the two semi-bearing members are closed together, one of said semi-bearing members being made fast to the end of the pitman and forming a cap for the said slot, the other of said semi-bearing members being slidable in said slot toward and away from said fixed semi-bearing member to expand the bearing, and a spring held in a socket in the end of the pitman which forms a seat for said slidable member and causes the presser member to exert a yielding pressure, and which is compressible to allow a dwell of the pitman while the crank pin continues a further downward movement.

1,378,707. MACHINE FOR FORMING SPOONS AND OTHER FLATWARE ARTICLES OUT OF SHEET MATERIAL. GEORGE P. MALLORY, Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Nov. 20, 1919. Serial No. 339,283. 3 Claims. (Cl. 113—49.)



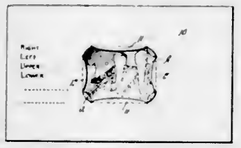
1. A machine for forming articles out of sheet material, having in combination a movable cutting die formed with a vertical opening therethrough, a clamping member movable within said opening, a forming member having two side branches which serve as bending members lying in said opening on opposite sides of the said clamping member, the walls of the cutting die being formed with horizontal pin holes opening into the vertical passage in which the said forming and clamping members are located, and pins which fit loosely in said horizontal holes and pass through holes in the forming members.

1,378,708. MICROPHONE. RAY H. MANSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed June 23, 1917. Serial No. 176,512. 10 Claims. (Cl. 179—122.)



9. In a microphone, a casing provided with parallel inner walls and having an open end, a flexible diaphragm clamped to said casing to form a closure therefor, an electrode, a beveled mount for said electrode located in said casing and secured to said diaphragm, a second electrode coöperating with the first, and comminuted resistance material engaging the opposing faces of said electrodes.

1,378,709. HOLDER FOR DENTAL X-RAY FILMS. JAMES MADISON MARTIN, Dallas, Tex. Filed Aug. 10, 1920. Serial No. 402,510. 1 Claim. (Cl. 40—158.)



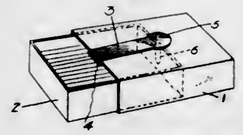
As a new article of manufacture, a film holder of the indicated class presenting an opening, said opening being defined at the four sides by elongated retaining members presenting convexed edges and each extending from a point adjacent to one corner to a point adjacent to the opposite corner; together with smaller retaining members presenting convexed edges and disposed at the corners to alternate with said elongated retaining members.

1,378,710. LINING FOR KILNS. ALBERT FRITZ MEYERHOFER, Mannheim, Germany, assignor to Dynamidon G. M. B. H., Mannheim-Waldhof, Germany, a Firm. Filed June 16, 1914, Serial No. 845,389. Renewed Oct. 23, 1920. Serial No. 419,070. 14 Claims. (Cl. 222—7.)



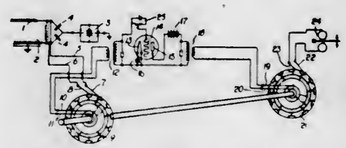
13. A lining for the purposes set forth which consists of an inner layer containing a high percentage of corundum combined with an insulating layer of porous brick.

1,378,711. MATCH-BOX. BENJAMIN F. MICHEL, Denver, Colo. Filed Oct. 11, 1919. Serial No. 329,939. 1 Claim. (Cl. 206—33.)



An attachment for match boxes comprising a strip having a hook at one end for engaging the end edge of the cover of the box and a pointed projection adjacent the other end, extending at right angles to the body of the strip and adapted to be forced through the cover to engage the end pieces of the drawer.

1,378,712. AMPLIFIER. JOSEPH W. MILNOR, New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1918. Serial No. 212,331. 5 Claims. (Cl. 178—88.)

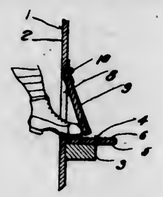


2. Signal amplifying apparatus such as described, comprising, in combination with an audion, a step up transformer controlling the controlling circuit of the audion, means comprising a make and break device for breaking up incoming signal impulses each into a large number of separate impulses of high frequency as compared with the incoming impulses, and for causing such high frequency impulses to operate the audion through the step up transformer, and signal receiving means operated by such amplified impulses.

1,378,713. STIRRUP. JOSEPH P. NAMI, Cristobal, Canal Zone, Panama. Filed Apr. 12, 1919. Serial No. 289,498. 1 Claim. (Cl. 244—31.)

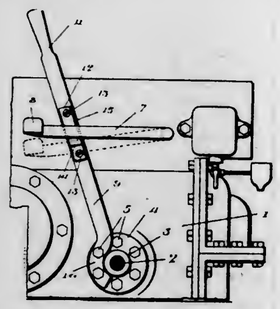
In combination, a fuselage having an opening and a brace secured to its inner face and located in a plane below the opening, a substantially flat horizontally disposed

plate secured to the top face of the brace and disposed in a plane with the lower wall of said opening and having a serrated upper face, said plate extending from the inner face of the fuselage to a point beyond the brace to form a step of a length substantially equal to the length of a



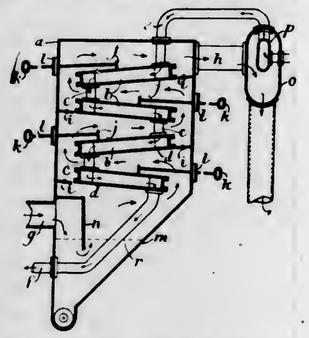
person's foot, and a flap hinged to the inner face of the fuselage at the upper end of the opening and adapted to normally close said opening by gravity and having its outer face flush with the outer face of the fuselage and capable of swinging inwardly by pressure of a person's foot thereagainst to expose the plate.

1,378,714. CLUTCH-RELEASE CATCH. WALTER I. NELSON, Galva, Ill. Filed Oct. 20, 1919. Serial No. 331,788. 1 Claim. (Cl. 74—81.)



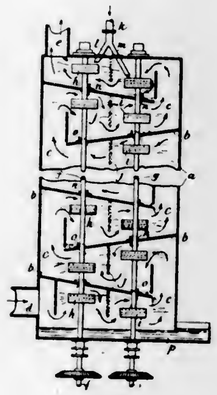
A catch of the kind described comprising a resilient bar having means at one end for attaching it to a support, and a handle at its other end, and a strip having its ends secured to said bar between the ends thereof, said strip being bent from one end to form a hook and from the other end to form a cam extending to the end of the hook.

1,378,715. HEAT-EXCHANGE APPARATUS. HARALD NIELSEN, Middlesex, and FREDERICK DEACON MARSHALL, Westminster, London, England. Filed Sept. 11, 1920. Serial No. 409,663. 3 Claims. (Cl. 257—218.)



2. In a heat exchange apparatus, a closed casing having inlet and outlet openings for one of the heat exchanging mediums, a series of closed boxes located within the casing and connected together to form a continuous zigzag passage, inlet and outlet pipes for the other heat exchanging medium connected with said boxes, said boxes being of substantially the same width as the casing, and providing spaces between their opposite ends and the adjacent wall of the casing, and dampers located in said spaces adjacent to opposite ends of alternate boxes, the inlet pipe for the first mentioned medium being located adjacent to the lower end of the casing, and a downwardly extending deflector within the casing adapted to extend below the surface of a body of water in the lower end of the casing to form a water seal.

1,378,716. GAS-WASHING APPARATUS. HARALD NIELSEN, Middlesex, and FREDERICK DEACON MARSHALL, Westminster, London, England. Filed Sept. 11, 1920. Serial No. 409,664. 1 Claim. (Cl. 261—111.)

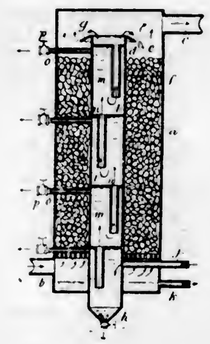


Apparatus for washing, cooling or absorbing gas, comprising a tower having a gas inlet adjacent to the bottom and a gas outlet adjacent to the top and being provided internally with inclined shelves extending from one side of the tower in a downwardly inclined direction nearly to the opposite side, said shelves extending in alternation from opposite sides of the tower, to divide the tower into a series of compartments and form a zigzag gas passage, said shelves being provided with vertically alined apertures, and vertically extending flanges adjacent to the lower edges of said apertures to facilitate the discharge of liquid therethrough, a plurality of vertical revoluble shafts extending through the tower each shaft passing through the vertically alined apertures in said shelves, a rotary spraying basket on each of said shafts above each of said shelves, and partitioning curtains formed by depending strands, located in each of said compartments above the respective shelves, and between the adjacent rotary shafts, the spraying baskets on each of said shafts being located in different horizontal planes from those on an adjacent shaft, and means for supplying liquid to the uppermost spraying basket of each shaft.

1,378,717. AIR-SATURATING TOWER. HARALD NIELSEN, Middlesex, and FREDERICK DEACON MARSHALL, Westminster, London, England. Filed Sept. 11, 1920. Serial No. 409,667. 3 Claims. (Cl. 261—97.)

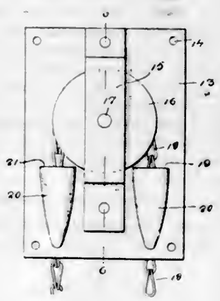
1. A gas saturating apparatus comprising a closed outer cylinder, having a gas inlet at the bottom and a gas outlet at the top, and a concentric inner cylinder of less diameter providing an annular space, containing filling material,

said inner cylinder being closed at its lower end and provided adjacent to its lower end with a liquid inlet, and



having its upper end provided with a liquid distributing device discharging within the outer cylinder, into said annular space, upon the filling material therein.

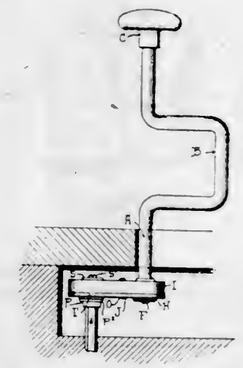
1,378,718. SASH ATTACHMENT. EWELL W. PENDERGRAFT, Vicksburg, Miss. Filed May 10, 1919. Serial No. 296,109. 1 Claim. (Cl. 16—116.)



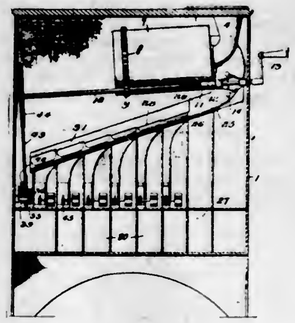
A sash attachment comprising a plate formed with spaced alined slits and pressed to provide elongated openings and inclined guides positioned over said openings, a substantially U-shaped bracket secured to the plate between the openings, a grooved pulley rotatably mounted between the bracket and plate above the opening, and a flexible element passing over said pulley, dropping through the respective openings and directed to the sash by said guides aforesaid.

1,378,719. WRENCH. CLIFFORD O. POOLE, Cobden, Ill. Filed Aug. 20, 1919. Serial No. 318,718. 1 Claim. (Cl. 81—57.)

A wrench comprising an oblong casing with integral lugs on the edge thereof, a cover with recesses to receive said lugs, said casing and cover having registering openings therein, a bit socket journaled in said openings and having an annular shoulder adapted to bear against a flange about one of said openings, a plate fastened to one end of said socket and bearing against the face of the casing, a sprocket wheel rotating with said socket, a bitstock having an end journaled in openings in the casing and cover, a sprocket wheel rotating with the portion of the bitstock within the casing, and a sprocket chain passing about said wheels, the diameter of the driven sprocket being greater than that of the driving sprocket for the purpose of obtaining increased torque.



1,378,720. AUTOMATIC COIN SEPARATING AND COUNTING MACHINE. HENRY WILLIAM ROELING, EDWARD HUGH WILLIAMS, and JOHN GEORGE BAUER, New Orleans, La. Filed Apr. 29, 1920. Serial No. 377,641. 5 Claims. (Cl. 133—3.)

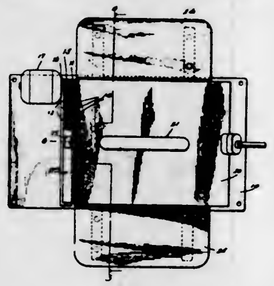


1. In an automatic coin separating machine, a receiver for the coins, a chute having means to separate the coins passing therethrough, a rotary drum between the receiver and chute having slots to deliver the coins from the drum, and inclined ribs in the drum for directing the coins through the slots, substantially as described.

1,378,721. ELECTRIC ENVELOP-SEALER. JOHN ROHDIEK, New York, N. Y. Filed Aug. 6, 1920. Serial No. 401,744. 2 Claims. (Cl. 120—6.)

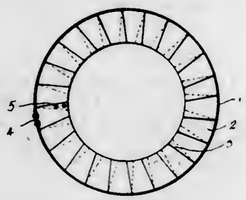
1. A device of the character described comprising a casing, a plurality of rollers journaled therein, a motor for driving said rollers simultaneously in the same direction, a cover for said casing, a plate within the cover,

coöperating with said rollers whereby to press against an envelop disposed between the rollers and the cover, and



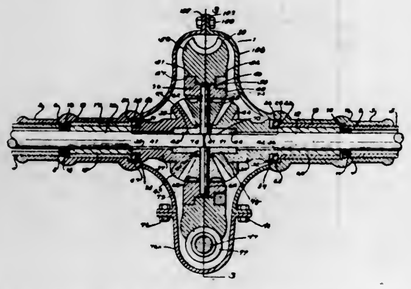
means for heating said cover comprising an electric heater carried thereby, and means for simultaneously energizing said heater and said motor.

1,378,722. REINFORCEMENT FOR ICE-CREAM TUBS OR THE LIKE. LEWIS ROMAN, Akron, Ohio. Filed Jan. 22, 1921. Serial No. 439,240. 5 Claims. (Cl. 217—89.)



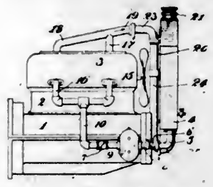
5. A reinforcement for ice cream tubs, comprising a hoop adapted to fit the lower portion of the tub, and an annular-shaped bottom comprising a plurality of portions of metal formed integrally with the hoop, extending inwardly therefrom and having the edges of adjacent portions overlapping and welded one to another.

1,378,723. DIFFERENTIAL GEARING. MATT F. ROSS, Windfall, Ind. Filed Jan. 20, 1919. Serial No. 272,179. 3 Claims. (Cl. 74—99.)



3. In a gearing, a housing, a worm-wheel in the housing, a worm in the housing engaging the worm-wheel, the worm-wheel having hub extensions and having pockets positioned about the hub extensions, pinions rotatably mounted in the pockets of the worm-wheel, driving shafts extending into the housing, bushings in the housing about the driving shafts, and gears loosely fitting upon the hub extensions of the worm-wheel and engaging said pinions, said gears having hub extensions rigid upon the driving shafts and engaging the bushings to hold the bushings in place.

1,378,724. COOLING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Continuation of application Serial No. 428,885, filed Dec. 7, 1920. This application filed Mar. 21, 1921. Serial No. 454,285. 10 Claims. (Cl. 123—174.)



1. In a motor vehicle of the general type characterized by an internal combustion engine of widely variable speed and heating capacity and water-jacketed for cooling purposes; an air cooled radiator located in front of one end of the motor, comprising an intermediate portion of great heat radiating capacity affording a multiplicity of transverse paths for through flow of the cooling air, and interior, up-and-down paths for upflow of steam and drainage of water by gravity, a lower portion of small heat radiating capacity affording a collecting cavity into which said paths drain and in which the water level is maintained below the level in the water jacket, and an upper cavity to which all said paths are open for escape of air; and a conduit with force pumping means leading from the lower collecting space in the radiator to the water jacket; and, in combination with the said elements of such a vehicle, means for operating said pumping means at a rate sufficient to over-supply the water-jacket, and a single continuous return conduit for the surplus water and steam leading from the upper part of the water jacket discharging into said lower collecting space in the radiator, thereby causing separation of the surplus water and steam in the lower part of the radiator and continuous flow of steam upward into said upward paths, forcing air or other excess fluids above it into the upper cavity in the radiator.

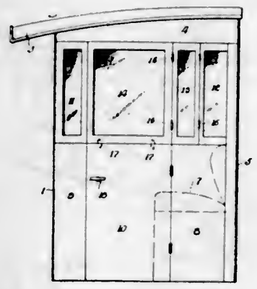
1,378,725. TANK. THOMAS RYAN, Jenks, Ala. Filed Aug. 1, 1919. Serial No. 314,766. 1 Claim. (Cl. 220—5.)



A sectional plate construction comprising plates having their proximate edges bent back against the planes of the plates forming marginal thickened ribs, a keeper having marginal flanges properly proportioned to engage the ribs therebetween, a band spanning the interval between the plates opposite the keeper, a gasket interposed between the band and the plates, bolts passed between the ribbed edges of the plates and through the keeper, the band and the gasket, and means for exerting clamping pressure upon the bolts.

1,378,726. VEHICLE-CAB. ANDREW SAUTER, Detroit, Mich. Filed June 23, 1919. Serial No. 306,147. 4 Claims. (Cl. 296—45.)

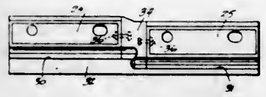
1. In a vehicle cab having a rear wall, and a door, a window adapted to be connected with the door for movement therewith, and means constructively arranged for constantly supporting said window relative to the rear



wall of the cab and independent of said door so that said window may be bodily swung into parallelism with and against said rear wall.

1,378,727. [WITHDRAWN.]

1,378,728. RAIL-CONNECTING CHAIR-PLATE PATTERN. CHARLES J. SHIELDS, Columbus, Ohio. Filed Aug. 27, 1920. Serial No. 406,324. 5 Claims. (Cl. 22—158.)



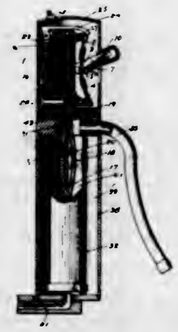
1. A pattern for the casting of intermediately offset rail connecting chair plates, including end rail engaging sections of standard sizes to fit standard rails, and interchangeable intermediate sections forming connecting members for the end sections having offsets to correspond with particular sizes of end sections, as described.

1,378,729. FUNNEL. TADAMITSU SHIMADZU, Tokyo, Japan. Filed Sept. 28, 1920. Serial No. 413,450. 2 Claims. (Cl. 226—37.)



1. A device of the class described comprising a receptacle, an hourglass shaped member having an upper and a lower end, stoppers closing said ends, a tube passing through the lower end and located adjacent the open end of said receptacle, a float arranged in said receptacle, a valve member arranged in the lower part of said hourglass shaped member and means connecting said float to the valve member.

1,378,730. OVERLOAD-SWITCH. MILTON H. SHOENBERG, San Francisco, Calif. Filed Dec. 27, 1919. Serial No. 347,734. 3 Claims. (Cl. 200—122.)



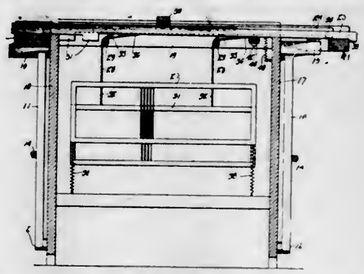
1. In combination with an electric switch comprising an oscillating member adapted to snap into either extreme position about a pivot under the action of a spring, at which point the circuit is interrupted, and upon displacement of the opposite end of the spring with respect to said central pivot, and including latch means adapted to retain the member in an intermediate position and in contact with circuit terminals.

1,378,731. HAIR-RESTORER. THEODORE E. SILVERA, Philadelphia, Pa. Filed Aug. 14, 1920. Serial No. 403,505. 5 Claims. (Cl. 67—5.)

2. A cocoanut oil salve comprising when cooled below summer temperature, a viscous, opaque paste and having the fatty acids liberated.

5. The method of making a hair tonic from the meat of the cocoanut which consists in finely dividing the meat, treating it with hot water, straining the heated mixture of cocoanut oil and water obtained, boiling the water, maintaining the temperature of the product not much above the boiling point of water, decanting the liquor, straining the liquor and allowing to cool.

1,378,732. HARNESS-ACTION FOR LOOMS. ADELARD B. SIMONEAU, Waterville, Me. Filed Jan. 19, 1920. Serial No. 352,438. 12 Claims. (Cl. 139—12.)

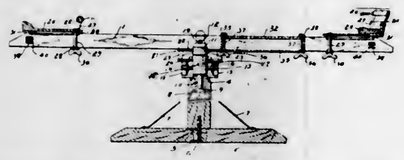


1. In a loom, a lay, a plurality of harnesses, means adapted to be selectively connected to the harnesses and movable transversely of the loom to operate such harnesses as are connected thereto and connections from the lay to the harness operating means to actuate the latter, substantially as set forth.

1,378,733. SEESAW. FRANK SIMONS, St. Louis, Mo. Filed Mar. 11, 1920. Serial No. 364,916. 7 Claims. (Cl. 46—27.)

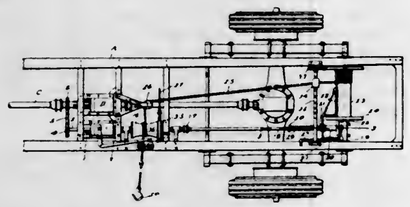
1. In a device of the character described, a plurality of superposed members having sockets therein and spindles

projecting therefrom, the spindles being adapted to be rotatably and removably received in the sockets of the adjacent member, a relatively stationary base rotatably



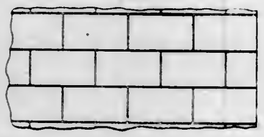
supporting the lowermost of said members, a horizontal trunnion extending from each of said members, and a beam for each of said mebmers and rotatably supported on the trunnion thereof for oscillating movement.

1,378,734. CAPSTAN DEVICE FOR MOTOR-TRUCKS. HENRY G. STEINBERG, Milwaukee, Wis. Filed June 4, 1920. Serial No. 386,557. 2 Claims. (Cl. 254—166.)



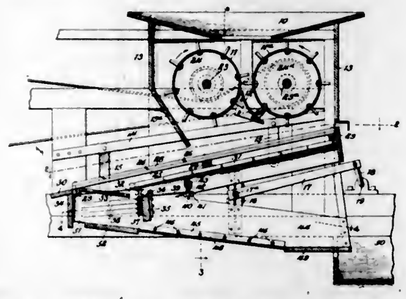
1. In combination with the transmission of a motor truck, a hoisting device comprising a shaft having means whereby it may be driven from the transmission of the truck, a capstan carried by said shaft, a winding drum driven by said shaft and carrying a cable wrapped about the capstan, and automatic means for varying the speed of rotation of the drum in proportion to the number of layers of cable thereon, said means comprising a friction disk carried by one end of the drum, a shaft slidable on said first named shaft and in a plane at right angles thereto, and a spring-pressed member engaging the outermost layer of cable upon the drum and connected with said second named shaft whereby to shift the position of said second named disk with respect to the center of said first named disk.

1,378,735. BUILDING-BLOCK. GEORGE H. TALBOT, Newtonville, Mass. Filed Sept. 5, 1919. Serial No. 321,854. 4 Claims. (Cl. 72—29.)



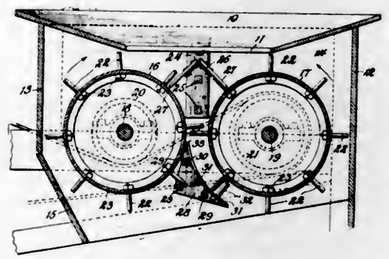
1. A building block comprising a top face having ribs adjacent its edges forming a mortar receiving groove therebetween, and a bottom face having flat surfaces complementary to said mortar receiving groove but of less depth, the lower face being chambered, whereby mortar in said groove which is displaced by a superimposed block will enter the chamber in the latter without overflowing from said groove and will serve more effectively to bond the blocks of successive courses, and the flat edge portions of the superimposed blocks will be directly engaged without the interposition of mortar therebetween.

1,378,736. RIDDLE FOR SEED-EXTRACTING MACHINES. BURL N. TRAUTMAN, Fort Collins, Colo. Filed Apr. 12, 1920. Serial No. 373,331. 22 Claims. (Cl. 130—19.)



1. In a riddle, a series of rigid slats spaced from each other but parallel and slanting, fingers provided on alternate slats and pointed downwardly in the direction of the slant of the slats, those slats having the fingers rising above the other slats, and means beneath the slats for catching all material which finds its way between the slats.

1,378,737. CRUSHER FOR SEED-EXTRACTING MACHINES. BURL N. TRAUTMAN, Fort Collins, Colo. Filed Apr. 12, 1920. Serial No. 373,332. 12 Claims. (Cl. 146—9.)



1. In a crusher for seed extracting machines, a pair of rolls having teeth, cleaning means for both the rolls and the teeth thereof mounted between and below the rolls, said cleaning means being so shaped as to deflect crushed material from one of the rolls and deliver the same in a stream beneath the other roll.

1,378,738. CHAIR-TIP. ARTHUR D. VARIELL, Waterbury, Conn. Filed Apr. 6, 1920. Serial No. 371,602. 2 Claims. (Cl. 16—4.)

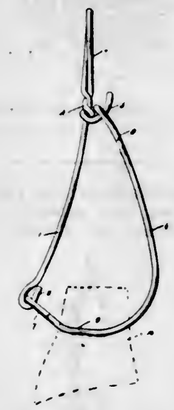


1. An attachment for furniture legs comprising a metallic concavo convex body of substantially circular form having its edges formed with a plurality of equally spaced parallel spear shaped prongs having sharpened ends, the inner faces of all the prongs being formed with a plurality of transverse ratchet shaped barbs.

1,378,739. HAM-HANGER. JOSEPH VLACH, Jr., Hanover, Kans. Filed Apr. 14, 1920. Serial No. 373,827. 1 Claim. (Cl. 248—22.)

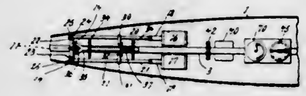
A hanger of the class described having a rod section provided with an eyelet, an elongated portion extending

therefrom, said section above the eyelet being formed into a suspending loop, the section from said loop having coils disposed around the elongated portion to close the loop and then extending outwardly and upwardly into a hook, said coils also rigidifying the hook, a second section of substantially rigid material having an eyelet pivoting it to said first-named eyelet for vertical and lateral movement, the second section having a suspending portion



and an elongated portion extending therefrom, opposite the said first-named elongated portion and the elongated portion of the second section having an elongated eyelet to engage said hook, said elongated portions extending on opposite sides of a vertical line passing through the loop so as to support an article on the suspending portion in the line of the center of gravity.

1,378,740. AUTOGUBERNATOR. SAMUEL THOMAS WALKUP, New York, N. Y. Filed July 30, 1917. Serial No. 183,506. 6 Claims. (Cl. 172—282.)

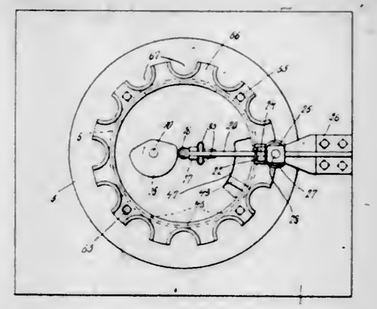


1. In a vehicle steering mechanism, a compass, a gear upon which said compass is mounted, a pair of contacts carried by said gear, a second gear in mesh with the first gear and provided with a key socket for turning, located exteriorly of the vehicle casing, and a key having a circular flange marked with the points of the compass adapted to be inserted in said socket, the compass marking on the said flange coöperating with a mark on the vehicle for the purpose set forth.

3. In combination with a directing member of a vehicle, a locking device normally holding said member in neutral position, means for operating said directing member, said means in its normal operation acting first to release the said locking device, and means acting automatically to return the directing member to neutral position and reapply the locking device.

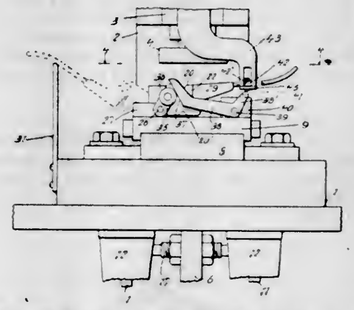
1,378,741. FLOWER-PRESS. SAMUEL THOMAS WALKUP, New York, N. Y. Filed Feb. 7, 1919. Serial No. 275,666. 8 Claims. (Cl. 41—2.)

1. In a press, a presser member, a slide adapted to carry an object to said presser member to be acted upon thereby, and means for alternately operating said presser member and moving said slide, including a pair of rocker



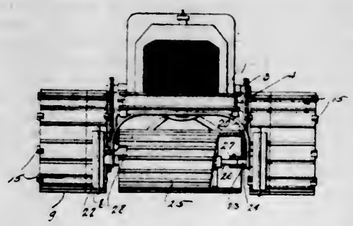
arms in operative relation respectively with said presser member and slide and a pair of cams in respective engagement with said rocker arms.

1,378,742. PRESS THROW-OUT. SAMUEL THOMAS WALKUP, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,221. 1 Claim. (Cl. 41—2.)



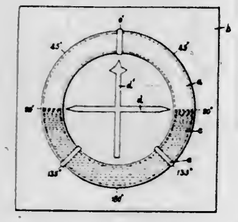
In a press, a die, a reciprocatory carriage a jaw member pivoted on said die carriage, a second jaw member pivoted on the first jaw member, resilient means holding said jaw members closed, a cam-faced lever adapted to cause said jaw members to swing on the pivot of the first jaw member, a pawl carried with the presser head and adapted to engage and operate said lever when the presser head is ascending, and means for causing said jaws to open when so swung, said means comprising a stop adapted to be engaged by a projection on the second mentioned jaw member.

1,378,743. TRACTOR ATTACHMENT. FRANK L. WARDEN, Dewar, Okla. Filed Apr. 30, 1919. Serial No. 293,684. 3 Claims. (Cl. 55—6.)



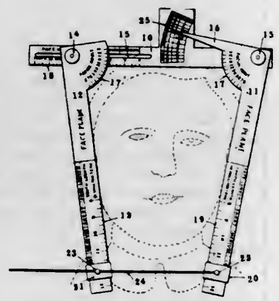
1. The combination with a tractor having a pair of rear wheels and a pair of front wheels; of land roller elements, and means for detachably mounting said land roller elements on said rear wheels and between said front wheels.

1,378,744. AEROPLANE LEVEL OR POSITION INDICATOR. HAROLD ERNEST WATKINS, Stone Legh, Newton-le-Willows, England. Filed Apr. 24, 1919. Serial No. 292,335. 1 Claim. (Cl. 33—206.)



Means for indicating the position in flight of an aeroplane or aircraft, consisting of a vertically arranged base, an annular tube secured on said base, a quantity of mercury approximately half filling the tube, angularly related pointers fixed vertically of the base, one of the pointers having an arrow head at the upper end, and scale marks for the mercury surfaces within the tube, said scale marks having their lowest indication in line with the arrow head of the vertical pointer, the scale marks increasing in both directions from such lowest pointer to the maximum indication in line with the lowest point of the vertical pointer.

1,378,745. GAGE FOR SELECTING ARTIFICIAL TEETH. JOHN A. WAVRIN, St. Louis, Mo., assignor to Dentists' Supply Company, a Corporation of New York. Filed July 30, 1919. Serial No. 314,313. 6 Claims. (Cl. 33—98.)



1. A tooth gage for determining shapes and sizes of artificial teeth to be used in dentures, the combination with a cross bar of a pair of face blades pivoted to said cross bar, one of said face blades also sliding relative to said cross bar, means for securing equal angles between said cross bar and the two face blades, a tooth conformation chart carried by the cross bar, and an indicator actuated by one of said face blades for traversing the chart in determining the tooth conformation suitable for the particular shaped face to which the gage is applied.

1,378,746. AIR-TURBINE. FRANK A. WHEELER, Flint, Mich. Filed June 21, 1920. Serial No. 390,390. 5 Claims. (Cl. 253—56.)

1. A turbine comprising a cylinder, detachable blocks fitted therein having inlet ports, a circular air supply pipe, inwardly directed radial branch pipes connected with the supply pipe and communicating with the ports of the blocks,



flanges carried by the branch pipes seated against and secured to the blocks, and a rotor journaled in the cylinder.

1,378,747. LOSS-PREVENTING DEVICE. ALBERT WHITE, Williamstown, N. J. Filed Oct. 2, 1920. Serial No. 414,242. 2 Claims. (Cl. 63—24.)



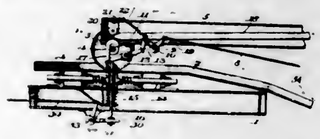
1. A device of the character described comprising an elastic casing adapted to embrace the back and sides of a time piece, and a plurality of outstanding teats formed on the outer face of the casing adapted to engage the walls of a pocket to prevent the loss of the time piece therefrom.

1,378,748. MATRIX AND MATRIX-HOLDER. FRANK WIGGINS, Knoxville, Tenn. Filed Jan. 15, 1921. Serial No. 437,543. 5 Claims. (Cl. 32—17.)



1. A flexible matrix band adapted to extend completely around a tooth with its ends in close relation, said band being provided near said ends with outwardly extending engaging elements stamped therefrom, and a resilient holding member having jaws to engage behind said elements and notches to receive the elements.

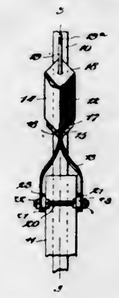
1,378,749. TRAILER-BRAKING MEANS FOR TRUCKS AND TRACTORS. SIDNEY B. WINN, Lapeer, Mich., assignor to Lapeer Tractor Truck Company, Lapeer, Mich., a Corporation of Michigan. Filed Aug. 5, 1918. Serial No. 248,291. 8 Claims. (Cl. 188—3.)



1. In combination, a tractor and a trailer adapted to be coupled together with the forward end of the trailer supported by the tractor, a coupling device connecting said tractor and said trailer, said coupling device being adapted for engagement and disengagement by relative

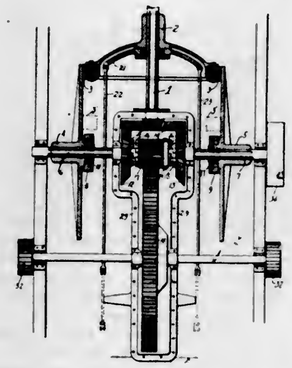
movement of the trailer and tractor in the general direction of length of the trailer, a brake mechanism for said trailer, and brake operating mechanism carried by said tractor and operatively connected to the brake mechanism of said trailer, said operating mechanism being adapted to be rendered inactive automatically by the separation of the trailer and tractor.

1,378,750. LUBRICATOR FOR GUIDE-RAILS. CHARLES F. WOLFE, New York, N. Y. Filed Oct. 18, 1920. Serial No. 417,534. 4 Claims. (Cl. 184—21.)



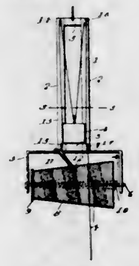
1. A lubricator for guide rails comprising a lubricator receptacle having depending legs formed integrally with the receptacle, a pair of clamping members, a bolt for securing said legs to said members and for holding said members in spaced relation, and means for effecting clamping action of the free ends of said members.

1,378,751. POWER TRANSMISSION. ROSS ALEXANDER WORKMAN, Springfield, Mo. Filed Sept. 26, 1919. Serial No. 326,482. 2 Claims. (Cl. 74—26.)



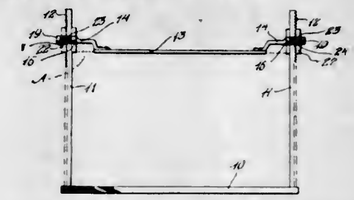
1. Transmission gearing including a longitudinal drive shaft, a pair of alined transverse shafts, friction disks slidably mounted on said transverse shafts, a friction wheel slidably mounted on the longitudinal shaft between the friction disks to contact therewith, bevel gears secured on the transverse shafts and having clutch portions, an idler bevel gear mounted in mesh with said bevel gears, means for sliding said friction disks to engage and disengage said friction wheel, the adjacent ends of said transverse shafts being disposed in abutment between said first named bevel gears, a pinion slidably mounted on the adjacent ends of said transverse shafts and having clutch portions to alternately engage the aforesaid clutch portions, a gear wheel opposite to the longitudinal shaft meshing with said pinion, and operating means for shifting said pinion having a portion projecting in between the first named bevel gears and engaging the pinion.

1,378,752. TWINE-HOLDER. LEO WRIGHT, St. Catharines, Ontario, Canada. Filed July 29, 1919, Serial No. 314,004. Renewed Apr. 7, 1921. Serial No. 459,414. 3 Claims. (Cl. 242—143.)



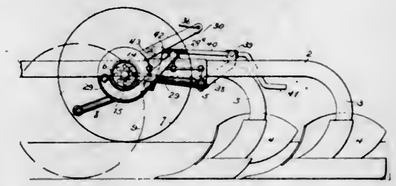
1. A device of the class described comprising a frame, a bracket at the lower end of said frame having downwardly parallel portions, a shaft rotatably mounted in said portions and adapted to receive a ball of twine, an outwardly extending arm at the upper part of the bracket having an eye therein through which the twine passes, a weight slidably mounted in the frame and guiding means on the frame and weight for the twine after it leaves the eye.

1,378,753. PAPER-HOLDER. THEODORE F. ZWILLING, Upper Sandusky, Ohio. Filed Sept. 15, 1919. Serial No. 324,016. 2 Claims. (Cl. 129—28.)



1. A device of the character described comprising a supporting base, a pair of spaced uprights rising therefrom and having their outer faces formed with notches, a plate disposed between and terminating short of said uprights, and a pair of clamping members carried by said plate and engaging said uprights, each of said clamping members including a vertically disposed plate portion bearing against the inner side of the uprights and formed with an arm terminating in an attaching foot secured to said first named plate, a lateral arm extending from said clamping plate, and a spring-pressed plate pivoted upon said last named arm and toothed for engagement with said notches.

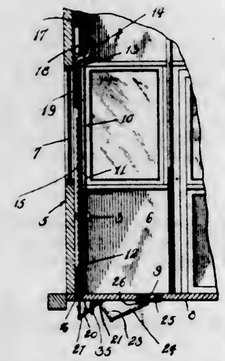
1,378,754. WHEEL-OPERATED LIFT MECHANISM. HERMAN E. ALTGELT, New Braunfels, Tex., assignor to Oliver Chilled Plow Works, South Bend, Ind. Original application filed Apr. 5, 1919, Serial No. 287,756. Divided and this application filed Apr. 10, 1920. Serial No. 372,795. 6 Claims. (Cl. 97—55.)



1. In mechanism of the character described, the combination with an axle, and a wheel, of a cam member

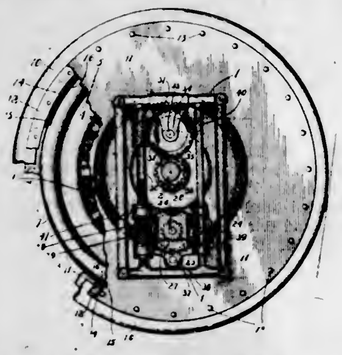
secured to the axle, a second cam member coöperable with said first-mentioned cam member, a lifting member loose on the axle, means connected with said second cam member and coöperable with said lifting member and with the wheel to lock said lifting member to the wheel, means for operating said second cam member to lock the lifting member to the wheel, means operable automatically to release the lifting member from the wheel, and means operating to hold said second cam member in the position to which it may be moved.

1,378,755. SUPPORTING DEVICE FOR SWITCH-ACTUATING BARS. VICTOR AUGER, Montreal, Quebec, Canada, assignor of one-half to Arthur Ferron, Montreal, Canada. Filed Mar. 19, 1921. Serial No. 453,804. 7 Claims. (Cl. 246—264.)



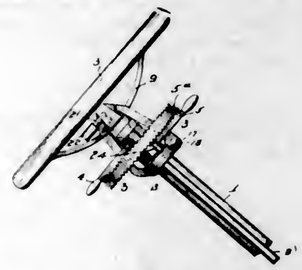
1. The combination with a street railway car or the like having openings in the lower side thereof, a hook within the car for supporting the switch actuating bar, closures for the openings, and an operative connection between the closures and said hook, substantially as and for the purposes set forth.

1,378,756. RESILIENT WHEEL AND TRANSMISSION THEREFOR. FRANCIS N. BARDWELL, Passaic, N. J. Filed July 9, 1919. Serial No. 309,718. 7 Claims. (Cl. 180—71.)



1. A resilient wheel comprising a body portion, a traction member free to rotate independently of said body portion, resilient means between said body portion and traction member around the entire periphery of said body portion for sustaining said parts normally in concentric relation, and adapted to permit depression of the traction member in any radial direction, and means for rotating the said traction member.

1,378,757. AUTOMOBILE-LOCK. JAMES W. BARWICK, Pinepark, Ga. Filed Jan. 15, 1920. Serial No. 351,735. 1 Claim. (Cl. 70—126.)



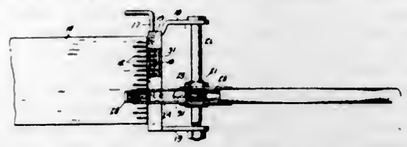
An automobile steering post lock comprising a lock loop formed of two legs diverging from one end toward the other, the ends of the legs constituting the narrower end of the loop having intermeshing eyes for the reception of the shackle of a padlock and the legs being hinged together at the other ends with one of the legs there provided with a side bend bridging the space between the legs at the wide end of the loop, and that end of the side bend where the other leg is hinged to it being provided with a pin directed toward the smaller end of the loop.

1,378,758. THREE-FINGER MITTEN. EDWIN T. BASKIN, Kansas City, Mo. Filed Sept. 7, 1920. Serial No. 408,618. 1 Claim. (Cl. 2—9.)



A hand covering comprising a body blank cut to form a palm and finger sections integral therewith, one edge of said blank being folded over and stitched to form the sides and back of the forefinger, back sections stitched to the remaining finger sections and to each other to form the back of the glove, and a thumb blank folded on itself and stitched to form the thumb, the folded portions of both blanks having slits defining elliptical thumb openings and elliptical ears, the later being integral with the blanks at the front ends of the thumb openings and being folded onto and stitched along their edges to said blanks, the two blanks being stitched together with their thumb openings registering with each other thus forming the completed three fingered hand covering, substantially as set forth.

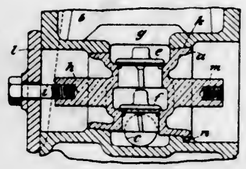
1,378,759. BELT-LACING APPLIER. FLOYD W. BERNERO, Memphis, Tenn. Filed Mar. 8, 1920. Serial No. 364,095. 6 Claims. (Cl. 1—50.)



5. A belt lacing applier comprising a bar having slits formed in one face properly spaced to receive the bended

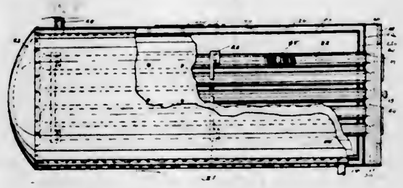
ends of a plurality of lacing hooks, means insertible within the bar to engage within the bended ends of the hooks and retain the hooks within the slits, a guide member rigidly positioned relative to the bar and in parallelism therewith, crossed handles slidable upon the guide member and jaws carried by the crossed handles extending over the bar in position to exert compression upon some of the hooks.

1,378,760. VALVE OF PUMPS. FRANCIS WHITWELL BRACKETT, Colchester, England. Filed Nov. 26, 1919. Serial No. 340,840. 3 Claims. (Cl. 277—61.)



1. In a pump, a valve casing having an internally ported and open ended conical seating socket and passages communicating with the seating and with, respectively, the pump inlet pipe and the pump plunger chamber, the axes of the said seating being at an angle to the axis of the plunger chamber connecting passages, a hollow conical plug housed in said socket and provided with seatings, alined and independently guided suction and delivery valves mounted on said seatings, the axes of the valves being at an angle to the axis of the plug, and means for mechanically adjusting the plug in position lengthwise of its seating to take up wear.

1,378,761. ELECTRICAL BOILER. LEONARD R. BRUNSWICK, Superior, Wis. Filed Sept. 22, 1920. Serial No. 412,044. 7 Claims. (Cl. 219—38.)

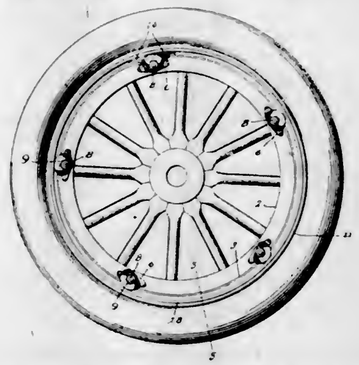


1. An electrical boiler comprising inner and outer shells arranged in spaced relation, a series of spaced openings formed in one end wall of the boiler through said inner and outer shells, tubes within the boiler having their inner ends closed, said tubes extending through said openings, said tubes being secured to said inner and outer shells at the sides of the opening through which they extend to form a fluid-tight joint, the space intermediate said inner and outer walls forming a heat insulation for the interior of the boiler, electrical heating units disposed within said tubes, the outer shell of said boiler projecting beyond the end thereof provided with the tube receiving openings and being adapted for the reception of a false end and a door formed in said false end and providing access to the exposed ends of said electrical heating units.

1,378,762. CREAM-WHIP COMPOSITION. ARTHUR W. BULL, Haverford, Pa. Filed Mar. 19, 1920. Serial No. 367,159. 3 Claims. (Cl. 99—11.)

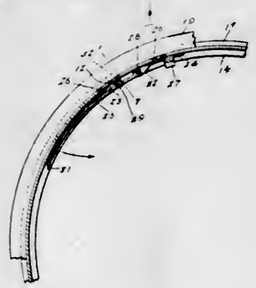
1. A composition for whipping cream comprising the reaction products of the following materials, namely a strong sugar solution, an excess of slaked lime and a small amount of a neutralizing acid, such acid being one of which the calcium salt is freely soluble in alkaline solutions.

1,378,763. DEMOUNTABLE-RIM CONSTRUCTION. JOHN T. CADENHEAD, Ensley, Ala. Filed Feb. 4, 1920. Serial No. 356,174. 1 Claim. (Cl. 301—30.)



A split, resilient, radially-contractible, demountable rim having at its inner side adjacent to its ends means for the engagement of a manipulating implement; one end portion of said rim being movable longitudinally and radially to and from an inner position in lapped and spaced relation to the other end portion thereof, and the rim being provided with shallow exterior edge flanges, in combination with tire-locking rings at the inner sides of the exterior flanges of the rim and in and against which the rim is capable of being expanded; the rim having apertures the end wall of the inner portions of which are under-cut, and one of the tire-locking rings being provided with dove-tail studs for coöperation with said apertures and the under-cut end portions thereof.

1,378,764. DEMOUNTABLE RIM. JOHN T. CADENHEAD, Ensley, Ala. Filed June 12, 1920. Serial No. 388,615. 2 Claims. (Cl. 301—33.)

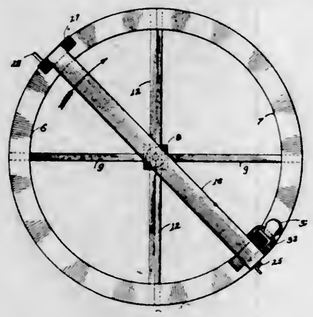


1. The combination with a split contractible and expansible rim having lugs at the inner sides of its end portions and a stud on one lug and an aperture in the other end portion to receive said stud, of a lever pivotally connected with said lugs.

1,378,765. TOY. HAROLD CEDERBLAD, San Francisco, Calif. Filed Oct. 5, 1920. Serial No. 414,822. 1 Claim. (Cl. 46—27.)

In a toy, the combination with a sectional circular track and a cross timber connecting the sections of said track, of a grooved U shaped clamping element adapted to hold the sections of said track in fixed relation, a top board having an integral recessed support formed thereon, a bearing disposed between said support and said clamping element, wheels connected to and depending beneath said board, a pedaling element penetrating one of said wheels,

a figure associated with said board and having a portion thereof connected with said pedaling element, means attached to said top board for supporting said figure, and



winding mechanism for imparting rotary movement to said wheels to cause the same to travel over the circular track.

1,378,766. AUTOMOBILE-BOOT. ALBERT CHAPMAN, Kellogg, Idaho, assignor to The Eagle Claw Tire Boot Company, Kellogg, Idaho, a Corporation of Idaho. Filed Oct. 6, 1919. Serial No. 328,663. 1 Claim. (Cl. 152—24.)



A blow-out boot for pneumatic tires comprising a body portion, a transversely curved strap located at each end of the shoe and spaced longitudinally disposed wires connecting the straps and having their ends extending through openings in said straps and terminating in radially extending penetrating points for engagement with a tire casing to hold the boot in position.

1,378,767. RAIL. HIRAM O. CONGER and CHARLES W. MCCUE, Warren, Ohio. Filed June 9, 1919. Serial No. 302,676. 1 Claim. (Cl. 238—145.)



In a rail, a base provided with a central upwardly projecting flange and with ribs at opposite sides of the flange and integrally connecting the same and the base, the upper edges of the ribs being inclined downwardly to the flange, and a head member provided with integral flanges at opposite sides of and equidistant from its transverse center, said flanges fitting tightly against the lateral faces of the flange of the base member and having their lower edges inclined similarly to and in contact with the upper edges of said ribs.

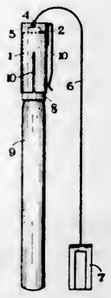
1,378,768. LIQUID-LEVEL GAGE. LEON DE VRIENDT and LOUIS DE VRIENDT, Blankenberghe, Belgium. Filed Dec. 10, 1919. Serial No. 343,906. 4 Claims. (Cl. 73—82.)

1. A fluid level indicating apparatus comprising an element mounted for rotation on an axis inclined to the level of the fluid, and buoyant members carried by the element to be successively immersed as the fluid level



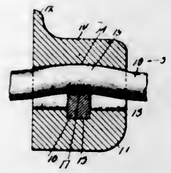
changes, said members varying the state of equilibrium of the element in accordance with the number thereof immersed.

1,378,769. REMEMBRANCER. DERMOT DONELAN, London, England. Filed July 27, 1920. Serial No. 399,304. 8 Claims. (Cl. 116—67.)



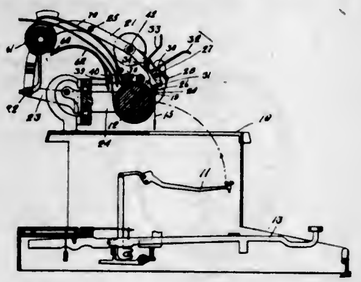
1. A remembrancer comprising in combination a bell having a striker freely suspended within said bell and flexible means for suspending said bell from the person, and means, on the article of which the person is to be reminded, adapted to receive said bell and to hold said striker in-active, substantially as and for the purpose hereinbefore set forth.

1,378,770. THREADLESS NUT. JOHN B. DOWNEY and ARTHUR C. EDGECOMB, Topsham, Me. Filed Jan. 23, 1920. Serial No. 353,431. 1 Claim. (Cl. 85—36.)



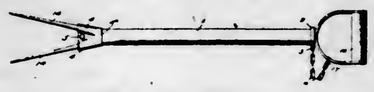
A threadless nut comprising a body having an elliptical opening therethrough internally bilged, a key-way transecting the opening and registering with the bilge, a tapered key formed to fit the key-way and provide sliding restricted to the direction of the key-way and a removable pin adapted to be placed through the key and removably confine the key to the key-way.

1,378,771. MACHINE FOR IMPRESSING CHARACTERS ON STENCIL-BLANKS. STERLING ELLIOTT, Newton, Mass. Filed Oct. 27, 1916. Serial No. 128,122. 21 Claims. (Cl. 197—135.)



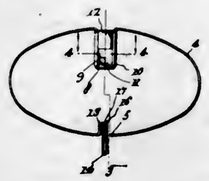
1. In a machine for impressing characters on stencil-blanks, the combination with the cylinder of a typewriting machine, a carriage, and a set of type, of holding-means borne by the carriage and vertically movably arranged adjacent and independent of the cylinder and adapted to engage and clamp a stencil-blank and hold it in flat form in tangential relation to the surface for the cylinder.

1,378,772. FORK FOR HANDLING FODDER. WILLIAM F. ELLIOTT, De Kalb, Ill. Filed Apr. 12, 1920. Serial No. 373,260. 2 Claims. (Cl. 294—100.)



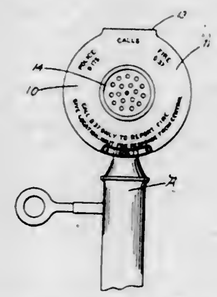
1. A fork for handling hay, fodder, etc., comprising a tubular shank member, outwardly flaring tubular guides formed at one end of said member, a plunger adapted to be manually reciprocated within the member, a pair of opposed pointed tines flexibly connected to one end of the plunger and traversing the flaring guides, said tines being forced to assume an outwardly flaring position by the guides when the plunger is moved in one direction and being housed wholly within the guides and tubular member when the plunger is forced in the opposite direction.

1,378,773. SOFT-COLLAR SUPPORT. VICTOR H. FAIRLESS, Trenton, Tenn. Filed Oct. 12, 1920. Serial No. 416,368. 2 Claims. (Cl. 211—24.)



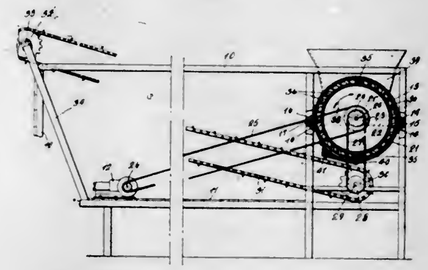
2. An improved collar support comprising a spring wire having divided ends bent into substantially circular form and adapted to fit between the folds of a double collar at the upper closed portion of the same, the intermediate portion of the wire at the back of the collar being offset downwardly to provide a pair of spaced apart and substantially parallel bars with a coupling piece connecting the bars at their lower ends, a plate having edges curled about said parallel bars and provided with a bendable portion adapted to engage with a support, one of the free ends of the wire at the front portion of the collar being bent a substantially right angles to the circle of the wire and extending inwardly thereof, said inwardly bent free end being formed into a clip with a mouth opening downwardly adapted to slip over the upper edges of the tabs of the collar, said free end of the wire being further bent into a substantially U-shape to form a second clip lying inwardly of the first clip and having its mouth opening upwardly and concealed by the collar tabs, substantially as described.

1,378,774. TELEPHONE ATTACHMENT. THOMAS JAMES FARMER, Omaha, Nebr. Filed June 29, 1920. Serial No. 392,689. 1 Claim. (Cl. 40—1.)



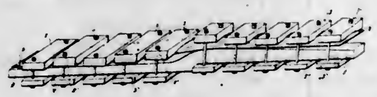
A telephone attachment comprising a circular shield adapted for conforming engagement upon the transmitter of a telephone and provided centrally with a hole through which the mouth piece of the transmitter is passed whereby the mouth piece will hold the shield in position, the upper portion of the shield being formed with a flattened plate portion terminating at its rear edge in a depending clip engaging against the back portion of the transmitter, said flattened top portion bearing legends as to the office and residence phone number of the subscriber, and the front portion of the shield bearing the number of the phone and also legends as to the police and fire headquarters telephone numbers.

1,378,775. PEAT-SPATULATING MACHINE. FRANKLIN FARROW, West Brooksville, Me. Filed Oct. 30, 1920. Serial No. 420,660. 2 Claims. (Cl. 44—28.)



2. In a peat spatulating machine, the combination of a cylinder and a rotor in the cylinder, means for delivering material to one end of the cylinder, means for delivering material from the other end of the cylinder, and a plurality of teeth carried upon the peripheral surface of the rotor and extending in a general direction toward the inner wall of the cylinder to impinge material between the teeth and the cylinder, said teeth being inclined transversely at substantially 30° with respect to the axis of the rotor and being inclined rearwardly with respect to the direction of rotation of the rotor at substantially 30° whereby said teeth are adapted to effect a wiping action against the material in the cylinder and to advance the material forwardly therein.

1,378,776. PROPELLER. ANTOINE PADOUE FILIPPI, Paris, France, assignor to Henri Joseph Leon Marie de la Chevardiere de la Grandville, Paris, France. Filed Aug. 24, 1917. Serial No. 188,057. 5 Claims. (Cl. 170—159.)

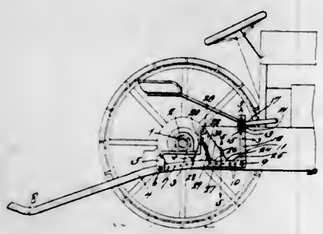


1. The herein described method of making propellers, which comprises assembling a plurality of flat unshaped laminations or leaves which are of the full length of the propeller to be made, with an adhesive applied to their meeting faces, submitting such laminations, while the adhesive is unset, to compression between surfaces shaped to mold one side of the assembled laminations throughout the length thereof to the desired form, thus giving the proper pitch and shape to the blades at the one and same side of the propeller, and maintaining such compression until the adhesive has become set and capable of maintaining the laminations in molded form.

4. A propeller comprising superposed glued or cemented resilient laminations bent in shape to form the blades, the laminations extending continuously from one blade to the other blade at the same side of the propeller, the blades being maintained in proper form and with the proper twist by the glue or cement which unites the laminations.

5. Apparatus for us in the making of propellers, comprising a profiled matrix forming the counterpart of the blades and hub to be obtained, and a suitable number of presses to coöperate with said matrix, each press having its lower face of a width to extend entirely across the blade of the propeller, said face having a profile corresponding to the transverse profile of the portion of the matrix with which it coöperates.

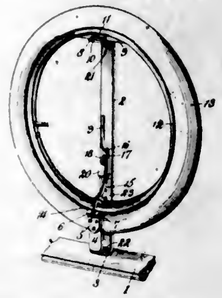
1,378,777. AUTOMATIC CLUTCH-RELEASE. TIMOTHY J. FLAHERTY, La Salle, Ill. Filed Sept. 27, 1919. Serial No. 327,009. 4 Claims. (Cl. 180—82.)



1. The combination with a tractor provided with a foot clutch pedal, of a foot clutch pedal releasing bar pivotally mounted on the rear axle casing of the tractor and comprising long and short arms, the former being adapted to engage the ground, a sliding link connection between the latter and the foot clutch pedal, whereby as the forward end of the tractor tends to tilt upwardly the long arm of the bar will contact with the ground to release the foot clutch pedal, means coöperating with the forward end of the short arm for automatically locking the releasing bar with its rear ground engaging end in different adjusted positions relatively to the ground.

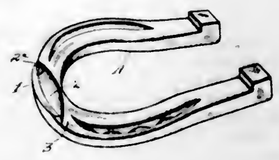
1,378,778. TIRE-RACK. ROE STUBBS FREEMAN, Atlanta, Ga. Filed July 12, 1919. Serial No. 310,327. 5 Claims. (Cl. 224—29.)

1. A tire rack for attachment to an automobile in an upright position, comprising a post with an overhang end and a saddle fast thereto, said post having a yoke portion at the end remote from the saddle and a return portion continued from the yoke portion in spaced parallel relation to the post, a lever pivotally mounted on the return portion and movable into engagement with the post, said



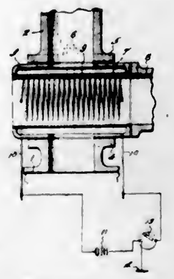
lever carrying means in coactive relation to the saddle and spaced therefrom to engage the inner portion of a demountable rim when the diametrically opposite portion of the rim is pendently hung from the saddle, and means for fastening the lever to the post to lock the rim on the rack.

1,378,779. HORSESHOE. THOMAS H. FREEMAN, Lynch Mines, Ky. Original application filed Oct. 4, 1919, Serial No. 328,377. Divided and this application filed Dec. 13, 1920. Serial No. 430,354. 2 Claims. (Cl. 168—29.)



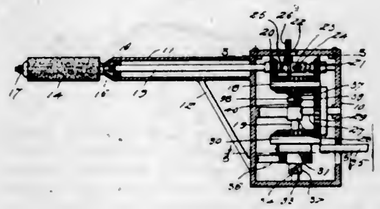
2. A horseshoe having a calk projecting beyond the general tread surface of the shoe, and a depression in said general tread surface rearward of said calk, said calk having its rear wall merging into the front wall of said depression.

1,378,780. VAPORIZER. JOSEPH F. FRIEND and PETER R. FRIEND, Kenosha, Wis. Filed Apr. 28, 1919. Serial No. 293,083. 1 Claim. (Cl. 219—38.)



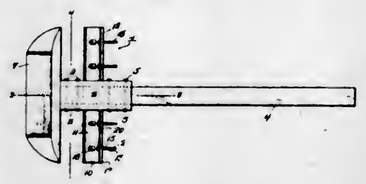
The combination with a carbureter having an attaching flange and an intake manifold having a flange, of a casing arranged snugly between said first and second named flanges and securely attached to the same, said casing having its upper and lower sides formed with passages in alinement with said carbureter and said intake manifold, an exhaust conveying pipe extending transversely through said casing between the upper and lower sides of the same and intersecting the longitudinal axis of said intake manifold, said exhaust conveying pipe being provided with an attaching flange secured to said casing, and a heating coil arranged in tubular formation within said exhaust conveying pipe in spaced relation to the side walls of the same and extending longitudinally of the exhaust pipe to permit of the free flow of the exhaust through the pipe, said heating coil intersecting the longitudinal axis of said intake manifold.

1,378,781. TOOTHBRUSH. ERNEST GLASS, Reading, Pa. Filed Dec. 26, 1919. Serial No. 347,363. 3 Claims. (Cl. 15—37.)



1. A device of the class set forth comprising a rotary brush, a shaft carrying the brush, a support common to said brush and said shaft and adapted in the use of the device to be manipulated to reciprocate the brush, a driving element rotatably carried by the support, means adapted to be actuated by the manipulation of the support to rotate said driving element in reverse directions alternately, and means carried by said support through which the alternate reverse rotations of said driving element impart a continuous one-way rotary movement to said shaft.

1,378,782. COKE-SHOVEL. EDDIE FLOYD GRIFFIN, Uniontown, Pa. Filed July 12, 1918. Serial No. 244,627. 1 Claim. (Cl. 214—23.)



In a coke puller, a head comprising a heavy solid body formed with a socket opening, a bar having its end portion projecting into the socket opening, the head extending transversely of the bar, a wing hingedly mounted at the rear of the head, means for limiting the movement of the wing, and bolts extending longitudinally of the head and transversely of the bar, and securing said head and bar together and a heavy transverse element parallel with the head, independent thereof and spaced therefrom, one of said transverse elements constituting primarily a pushing device and the other a pulling device.

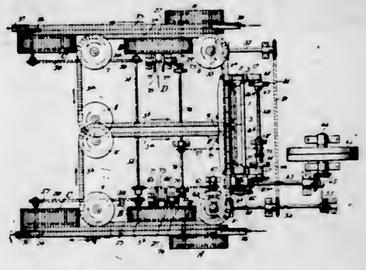
1,378,783. SAFETY LOCKING DEVICE AND ANTI-RATTLER. WILLIAM G. GRIFFETH, Athens, Ga. Filed Mar. 17, 1919, Serial No. 283,182. Renewed Apr. 29, 1920. Serial No. 377,689. 3 Claims. (Cl. 74—17.)

1. In combination with a joint, comprising the end of a steering arm, the end of a transverse connecting rod and an engaging bolt, of an antirattling and locking attachment, comprising a body portion having ears connecting



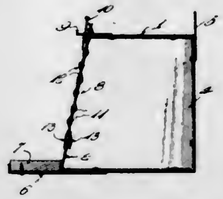
with said bolt to hold it in place, and a tubular extension having in it a follower bearing on the end of said arm, and a tension spring bearing on the follower.

1,378,784. APPARATUS FOR PACKING MATCHES IN BOXES FOR MATCH-MAKING MACHINES. HENRY ALFRED GSELL, Paris, France. Filed Jan. 14, 1919. Serial No. 271,115. 10 Claims. (Cl. 226—10.)



10. In a match boxing machine, movable match carrying bars, match ejectors coöperating with said bars, a plurality of endless chains each having a portion parallel to a different portion of the length of a carrier bar, whereby each chain will receive matches from a different portion of the length of said bar.

1,378,785. HEN'S NEST. DENNIS HALEY, Mount Pleasant, Iowa. Filed Nov. 22, 1920. Serial No. 425,779. 4 Claims. (Cl. 119—45.)

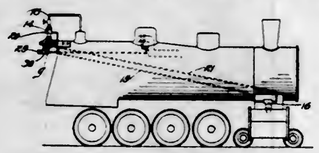


1. A hen's nest comprising an open front box including a relatively short vertical front wall, an apertured forwardly extending ear at the top of the box, a quick detachable wire mesh door disposed over the open front of the box, said ear extending through one of the spaces between the wires of said door, a retaining pin arranged in the aperture in said ear, and co-acting means between the lower edge of the door and said front wall to hold the door closed.

1,378,786. DRIFTING-VALVE. JOHN H. HANLON, Somerville, Mass. Filed Oct. 30, 1918. Serial No. 260,222. 6 Claims. (Cl. 121—137.)

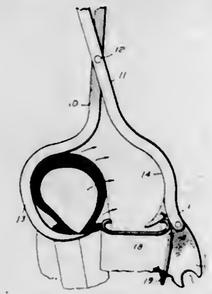
1. In a device of the character described, a main valve controlling a steam passage leading from the boiler to the cylinders of the locomotive, throttle actuated mechanism to open said main valve by the movement which closes

the throttle, a trip cylinder operatively connected with said main valve and connections to the trip cylinder entering said steam passage at a point near the cylinders



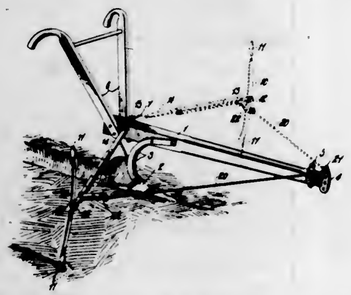
of the locomotive whereby an accumulation of pressure in the cylinders of the locomotive will produce pressure in the trip cylinder and actuate the trip cylinder to permit the closing of the said main valve.

1,378,787. AUTOMOBILE-TIRE TOOL. FRANCIS J. HARBERT, Twin Falls, Idaho, assignor of one-half to Willis T. Harbert, Twin Falls, Idaho. Filed Feb. 17, 1921. Serial No. 445,707. 2 Claims. (Cl. 157—6.)



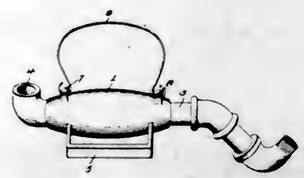
1. A tire tool comprising a pair of pivoted handles having opposing, curved jaws that terminate in bead-engaging fingers, and a dog pivoted to one of the jaws contiguous to its fingers having a rim-engaging portion that forms a rim bearing for the tool, and having a bead-engaging surface that extends a substantial distance beyond the free end of such finger, when the dog lies alongside of the finger, such surface being on a plate of substantial longitudinal and lateral extent.

1,378,788. FURROW-MARKER. JOHN S. HARWELL, Murrycross, Ala. Filed Dec. 13, 1919. Serial No. 344,734. 2 Claims. (Cl. 97—82.)



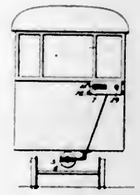
1. In an earth marking tool for plows, a marker beam comprising flat bars provided with spaced perforations, the outer of said bars having one end bent upon itself to provide a loop, a link member engaged within said loop and embracing the other bar of said marker beam, a rigid brace rod universally hinged to the front end of the beam and having spaced members provided with alined bolt holes and adapted to be connected to the marker beam with said spaced members embracing the outer bar of said beam, and a bolt adapted to be inserted through the bolt holes to secure the brace rod to the marker beam.

1,378,789. CARBURETER-HEATER. EDWARD D. HISCOCK, Odell, Oreg. Filed June 11, 1920. Serial No. 388,154. 3 Claims. (Cl. 263—5.)



1. An attachment of the class described comprising a hollow body having a discharge terminal at one end and an upturned receiving cup at its other end, and fuel containing means carried by said body and positioned to direct the heat issuing therefrom around said body.

1,378,790. STREET-CAR SIGNAL. JOHN C. HOPKINS, Cedar Rapids, Iowa. Filed June 12, 1919. Serial No. 303,596. 1 Claim. (Cl. 116—36.)



A signal of the character described comprising an elongated casing having a longitudinally disposed slot formed in one side wall of the casing, and an opening spaced from the slot but in align therewith, an arm pivoted within the casing at a point between its ends for vertical movement, a semaphore carried by one end of the arm, upper and lower disks carried by the opposite end of the arm, said disks being of different color and adapted to be moved singly to a position behind said opening, a lamp within the casing, means for normally holding the semaphore above the slot and one disk arranged behind said opening, and means for actuating said arm to bring the semaphore and the other disk behind the said slot and opening respectively for the purpose specified.

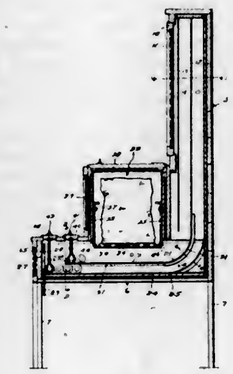
1,378,791. FRUIT-THINNING IMPLEMENT. PER FRITIOF JOHANSON, Trail, Oreg. Filed Apr. 17, 1920. Serial No. 374,644. 2 Claims. (Cl. 30—11.)

2. A device of the character described, comprising a hollow pole, a fixed blade carried by one end thereof, a movable blade pivotally connected with the fixed blade, a cylindrical sleeve carried by the butt end of the pole, a lever extending transversely therethrough and pivotally mounted, a flexible member connected with said member and with the movable blade, a spring for normally holding said movable blade away from the fixed blade, and means for limiting the movement of the movable blade under the influence of the spring comprising a ring ro-



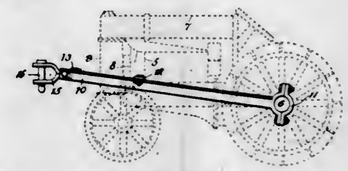
tatably mounted on said sleeve and engaging said lever, said ring being stepped whereby to provide portions of different widths.

1,378,792. COMBINED DISPENSING AND REFRIGERATING APPARATUS. ROBERT A. JOHNS and FRANK LEROY MYERS, Mobile, Ala. Filed Feb. 3, 1921. Serial No. 442,067. 5 Claims. (Cl. 211—8.)



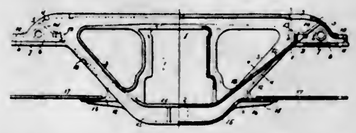
1. A device of the character described of substantial L shape in cross section and divided longitudinally into a plurality of compartments, guideways in each of said compartments adapted to maintain bottles transversely of said compartments and conduct them by a rolling motion upon their sides from the vertical to the horizontal part of the compartment, means for maintaining water at a predetermined level in the horizontal portions of said compartments and at a level to cover the bottles therein and an ice box having an open bottom for which the water in said compartments constitutes a water seal, said horizontal part of the compartment being wider than the ice box to provide a projecting portion outwardly of said ice box, closures hinged for vertical swinging movement upon said projecting portions and bottle gripping elements carried by said closures of a length to dip beneath the water level and grip a bottle about its circumference to remove the same when the closure is opened.

1,378,793. TRACTOR-HITCH. ALVIA E. JOHNSON, St. Francis, Kans. Filed Oct. 9, 1920. Serial No. 415,812. 3 Claims. (Cl. 213—67.)



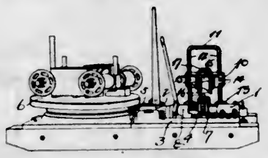
1. A tractor hitching device comprising a pair of longitudinal members, means at one end of each member for holding the same to the rear axle of the tractor, said members converging forwardly relative to the tractor, a cross-piece joining the longitudinal members near their forward ends and adapted to lie in front of the radiator of the tractor, means to hold up the forward end of the hitch, and a clevis pivotally mounted on the hitch forwardly of the cross-piece to swing about a horizontal axis whereby the hitch may be connected to an agricultural implement.

1,378,794. TRUCK SIDE FRAME. GEORGE T. JOHNSON and HARRY W. STERTZBACH, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Filed July 17, 1920. Serial No. 397,094. 7 Claims. (Cl. 105—205.)



1. A truck side frame having extensions from the juncture of the diagonal tension members with the top member, each diagonal tension member having a plate or web diagonally disposed relatively thereto and having a vertical bolt opening near its upper end, and each of said extensions having inwardly projecting ribs integral at one end with said plate or web and at the other end with the top of said extension.

1,378,795. GUIDE FOR DRIVE-CHAINS. HORACE G. JOHNSTON, Corsicana, Tex., assignor to Genevieve Johnston, Corsicana, Tex. Filed Aug. 2, 1920. Serial No. 400,805. 6 Claims. (Cl. 74—51.)

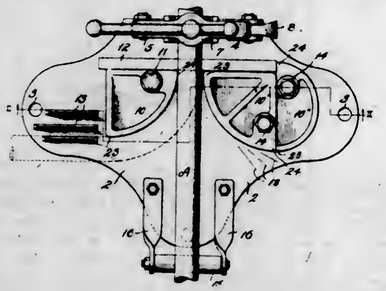


1. In a driving mechanism for well drilling rotaries, a base, a driving mechanism thereon comprising a wheel, a flexible driving element engaging the wheel, a guide member adjacent said wheel embracing the edges of said flexible driving element, a support for the guiding member rigidly mounted on said base and extending upward therefrom, and means adapting the guide member to be adjusted along said support and be secured in adjusted position.

1,378,796. PIPE-BENDING DEVICE. LOUIS W. JONES, Cleveland, Ohio. Filed Feb. 14, 1920. Serial No. 358,658. 3 Claims. (Cl. 153—32.)

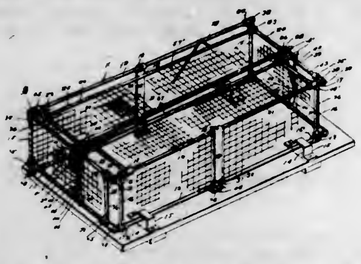
1. In a pipe bending device, the combination of a base, a pipe vise supported at one end of the base, an abutment

ridge rising from the base in front of the vise, a removable bending former adapted to rest upon the base and having one face adapted to bear against the said abutment



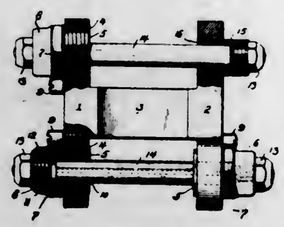
ridge, and another face curved with a heel in line with the pipe to be bent when held in the vise and means for securing the former to the base in the position stated.

1,378,797. COLLAPSIBLE CRATE. MICHAEL KING, St. Louis, Mo. Filed Oct. 16, 1919. Serial No. 331,056. 5 Claims. (Cl. 220—6.)



1. A collapsible crate having a base, side walls horizontally hinged to the base and having frames composed of upper and lower marginal rods connected by vertical links vertically hinged end walls carried by the extremities of one of the side walls, and complemental top sections carried respectively by the side walls and consisting of inner marginal rods connected by links to the upper marginal rods of said side walls.

7,378,798. SHACKLE. HENRY A. KROH, Detroit, Mich. Filed June 7, 1919. Serial No. 302,486. 3 Claims. (Cl. 267—54.)



I. A shackle comprising arms, bushings in said arms having the inner ends for engagement with the eye of a spring and adjustable for wear thereagainst, and a headless pin floating in said bushings.

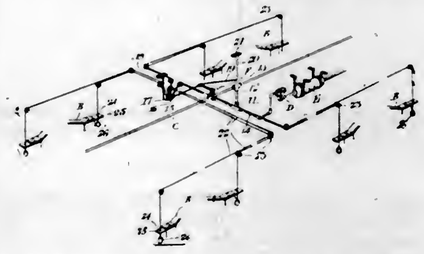
1,378,799. DEVICE FOR TRUING CRANK-SHAFTS OF ENGINES. HENRY G. KUPER, Columbus, Nebr. Filed Jan. 29, 1919. Serial No. 273,773. 3 Claims. (Cl. 82—2.)

8. A device for truing crank shafts including a connecting rod and its integral bearing section receiving one portion of the bearing portion of the crank-shaft, a body detachably secured to the bearing section, and a knife



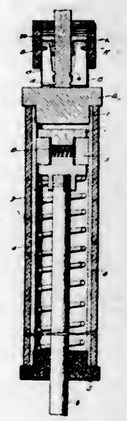
carried by said body and adapted to shave the face of the bearing portion on rotation of the crank shaft.

1,378,800. AUTOMATIC TRAIN-STOP. SINAI LAFLEUR, Foleyet, Ontario, Canada, assignor of one-third to J. Edouard Coron, Montreal, Quebec, Canada. Filed Nov. 19, 1920. Serial No. 425,187. 5 Claims. (Cl. 246—170.)



1. An automatic train stop comprising a valve operatively connected to the air brake system, adapted when opened to permit the escape of air and cause the application of the brakes, spring means tending to move the valve to open position, a trip device normally retaining the valve in closed position, releasing means for the trip device including cables extending to different parts of the car construction, and pulleys supporting the cables.

1,378,801. ELECTRIC-CABLE TAP. HOMER M. LAMB, West Frankfort, Ill., assignor of one-third to Louis Klein and one-third to George B. Greenbaum, Frankfort, Ill. Filed Aug. 9, 1920. Serial No. 402,418. 7 Claims. (Cl. 191—12.)



1. In a device for the purpose set forth, an insulated tube, a hook removably secured to one end thereof, and a spring influenced rod movable through the opposite end thereof.

1,378,802. SANITARY CLOTHES-LOCKER. HOMER M. LAMB, West Frankfort, Ill., assignor of one-third to Louis Klein and one-third to George B. Greenbaum, Frankfort, Ill. Filed Aug. 9, 1920. Serial No. 402,419. 6 Claims. (Cl. 45—13.)



1. An elevated locker having an open bottom and a slidable door for closing the bottom, and means for locking the door.

1,378,803. STAPLE-NAIL. CHARLES A. LOVE and CHARLES GOLDSTON, Paris, Tenn. Filed Apr. 21, 1920. Serial No. 375,504. 1 Claim. (Cl. 85—49.)



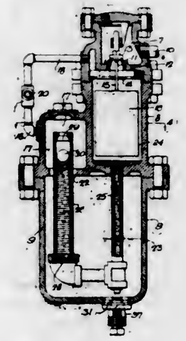
A staple-nail including a shank and head portion and a prong depending from the head-portion and shorter than the shank, one lateral side of the prong being beveled, the plane of the bevel crossing the vertical axis of the shank, the other side of the prong being substantially parallel to the corresponding side of the shank, the one beveled side presenting to the wood an inclined plane to deflect the said prong laterally with respect to the vertical axis of the shank on its vertical axis to impart a twisting movement to the shank within the wood.

1,378,804. GAS-STOPPING LINING FOR USE IN AIRCRAFT AND MEDIUM FOR FIXING SAME. VINCENT CRANE RICHMOND, Harrow-on-the-Hill, England. Filed Feb. 10, 1921. Serial No. 443,996. 8 Claims. (Cl. 18—57.)

1. A gas stopping lining for fabric comprising a central layer of very low permeability to hydrogen, a protective layer and an attachment layer.

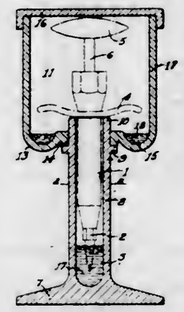
1,378,805. DRY-PIPE ACCELERATOR. ARTHUR C. ROWLEY, Philadelphia, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 11, 1920. Serial No. 388,336. 15 Claims. (Cl. 169—20.)

1. An accelerator consisting of a valve controlling the flow of air under pressure to the intermediate chamber of a dry pipe valve; a float for operating said controlling valve; a body of liquid; and means for causing said



liquid to act on the float to open said valve when a reduction of the air pressure occurs in the air chamber of the dry pipe valve.

1,378,806. HYPODERMIC-SYRINGE CONTAINER. HERMAN AUSUBEL, New York, N. Y. Filed Dec. 30, 1919. Serial No. 348,275. 6 Claims. (Cl. 167—3.)

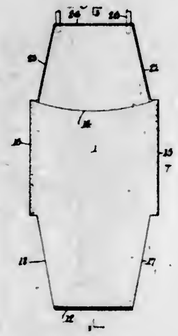


1. A container for hypodermic syringes of the class described having the combination of a base, a tubular portion extending upwardly from said base and adapted to contain disinfecting material in the bottom thereof, the upper end of said tube adapted to hold the syringe whereby its cylinder is disposed within said tube with its needle immersed in the disinfecting material, said tube having a ledge, a casing surrounding the upper part of the syringe having a floor adapted to slip over the upper end of said tube and resting in place on said ledge, said floor having an annular groove adapted to contain disinfecting material, and a cover for closing said casing.

1,378,807. HOLDER. HENRY L. BROWN, Atlantic City, N. J. Filed Sept. 25, 1920. Serial No. 412,789. 4 Claims. (Cl. 224—5.)

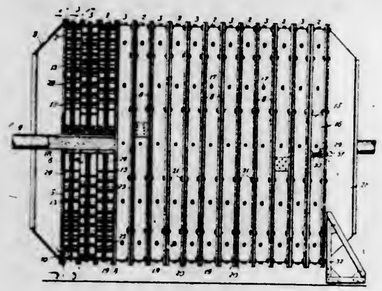
1. In a holder for cards, pads, stationery and the like, a central partition, open pockets partly cut away along

their side portions, said pockets having their vertical sides secured to the partition and to each other, a common



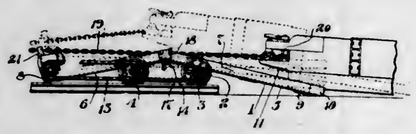
bottom for said pockets and flexible means attached to the top-portion of said central partition for carrying said holder.

1,378,808. DRIER. WILLIAM M. BROWNELL, Brooklyn, N. Y. Filed Apr. 6, 1917, Serial No. 160,243. Renewed Oct. 28, 1920. Serial No. 420,322. 10 Claims. (Cl. 34—42.)



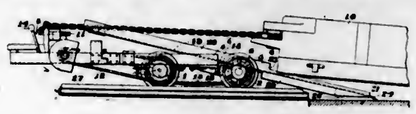
1. In a drier a rotary unit consisting of a series of radial spokes, a strip in the form of a coil secured to said spokes, forming a spiral drying channel, an outer rim in which the outer ends of said spokes are secured and foraminous diaphragms secured at the sides of the unit, substantially as described.

1,378,809. MINING-MACHINE TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 18, 1916. Serial No. 132,121. 28 Claims. (Cl. 105—161.)



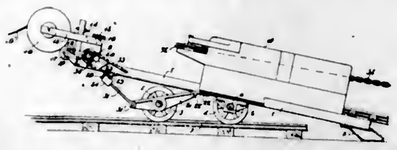
1. In a mining machine truck, a plurality of normally angularly disposed wheeled frames, each mounted on a pair of supporting wheels and each bodily vibratable vertically around the axis of its wheels, and means pivotally connecting their adjacent ends.

1,378,810. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 17, 1917. Serial No. 197,084. 14 Claims. (Cl. 105—161.)



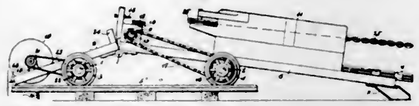
1. In a mining machine truck, a plurality of wheeled truck elements, one of said elements comprising a machine supporting frame tiltable into inclined position for the loading of a machine thereon, axle boxes carried by one of said elements, and a pivotal connection between said other element and said axle boxes.

1,378,811. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918. Serial No. 266,314. 56 Claims. (Cl. 105—161.)



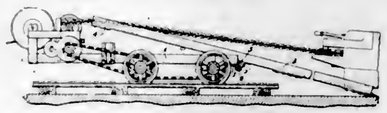
1. In a mining machine truck, a tiltable machine carrying frame pivotally mounted on a support and tiltable by a machine moving thereover, and friction means for retaining said frame in tilted position.

1,378,812. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 12, 1918. Serial No. 266,479. 18 Claims. (Cl. 105—161.)



1. In a mining machine truck, a tiltable truck body, a wheeled pivot therefor, said body being tiltable about the pivot to loaded or unloading position by a mining machine movable thereover, and trailer means having a separate wheeled mounting engaging the body at one end thereof for supporting that end when said body is loaded.

1,378,813. MINING-MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 28, 1919. Serial No. 279,866. 11 Claims. (Cl. 105—161.)



1. In combination, a truck frame, a transverse plate thereon, and a tilting member turning directly on said plate during its tilting operation.

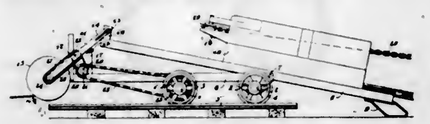
2. In combination, a truck frame, means forming a transverse knife edge at the front thereof, and a tilting member turning on said knife edge during its tilting operation.

3. In combination, a truck frame, means forming a transverse bearing at the front end thereof, and a tilting machine supporting member slidable relative thereto during its tilting operation.

4. In combination, a truck frame, a transverse member thereon, a machine receiving member tiltable and slidable on said member, and means for operatively connecting said elements.

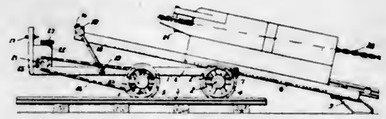
5. In combination, a truck frame, means forming a transverse knife edge bearing at the front end thereof, a tilting machine supporting member tiltable thereon during its tilting operation, and means for maintaining said elements in operative relation.

1,378,814. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918, Serial No. 266,318. Renewed Feb. 3, 1921. Serial No. 442,327. 14 Claims. (Cl. 105—161.)



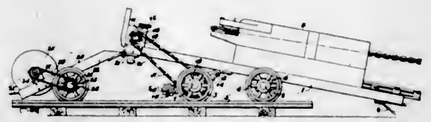
1. In a mining machine truck, a wheeled frame, a machine carrying body pivoted at the front end thereof and tiltable by a mining machine movable thereover, and counterbalancing means having a fixed pivotal connection with said frame and engaging said body for normally retaining the latter in an inclined position.

1,378,815. TRUCK. MORRIS P. HOLMES, Claremont N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918, Serial No. 266,319. Renewed Feb. 3, 1921. Serial No. 442,328. 18 Claims. (Cl. 105—161.)



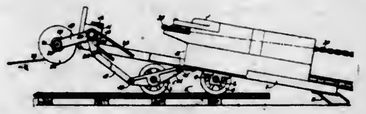
1. In a mining machine truck, a wheeled frame having front and rear wheels, a machine carrying body pivoted at the front end thereof and tiltable by a mining machine movable thereover, and friction means mounted on said frame and body for retaining said body in a tilted position.

1,378,816. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 12, 1918. Serial No. 266,478. Renewed Feb. 3, 1921. Serial No. 442,329. 25 Claims. (Cl. 105—161.)



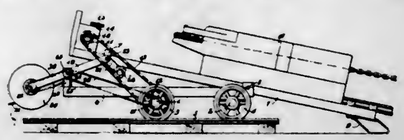
1. In a mining machine truck, a wheeled truck unit comprising a tiltable bed, truck driving mechanism on said bed, and a wheeled counterbalancing unit engaging said bed to normally hold the latter in an inclined position, said units being connected for angular lateral movement.

1,378,817. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918, Serial No. 266,316. Renewed Feb. 4, 1921. Serial No. 442,597. 30 Claims. (Cl. 105—161.)



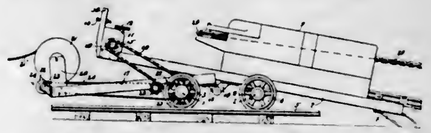
1. In a mining machine truck, a tiltable machine carrying frame, a supporting member therefor, and counterbalancing means mounted on said frame and engaging said member for retaining said frame in a tilted position.

1,378,818. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918, Serial No. 266,317. Renewed Feb. 4, 1921. Serial No. 442,598. 19 Claims. (Cl. 105—161.)



1. In a mining machine truck, a wheeled frame, a machine carrying body pivoted at the front end thereof and tiltable by a mining machine movable thereover, and counterbalancing means mounted on said frame for retaining said body in a tilted position.

1,378,819. TRUCK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918, Serial No. 266,315. Renewed Feb. 5, 1921. Serial No. 442,888. 21 Claims. (Cl. 105—161.)



1. In a mining machine truck, a wheeled tiltable load carrying frame, a reel supporting counterbalancing member engaging said frame, and truck driving means mounted on said frame and adapted to be driven by a mining machine.

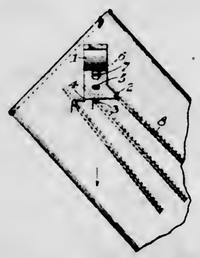
2. In a mining machine truck, a plurality of sets of wheels, a tiltable load carrying frame mounted on one set of wheels, a reel supporting counterbalancing member mounted on another set of wheels and engaging said frame, and truck driving means mounted on said frame and engaging one of said sets of wheels.

3. In a mining machine truck, a plurality of sets of wheels, a tiltable load carrying frame mounted on one set of wheels, a reel supporting counterbalancing member mounted on another set of wheels and engaging said frame, and truck driving means mounted on said frame and operatively connected with said last named set of wheels.

4. In a mining machine truck, a plurality of sets of wheels, a tiltable load carrying frame mounted on one set of wheels, a reel supporting counterbalancing member mounted on another set of wheels and engaging said frame, truck driving means mounted on said frame and including a flexible connection engaging said last named set of wheels, and means for maintaining a constant tension on said flexible connection.

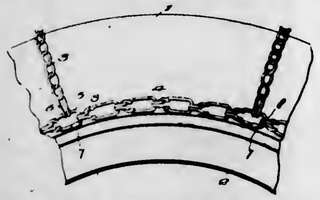
5. In a mining machine truck, a plurality of sets of wheels, a tiltable load carrying frame mounted on one set of wheels, a reel supporting counterbalancing member mounted on another set of wheels and engaging said frame, truck drivink means mounted on said frame and including a flexible connection engaging said last named set of wheels, and means for taking up the slack in said flexible connection.

1,378,820. GLOVE-POINTING MACHINE. WILLIAM HORN and JAMES HAGAN, Oneonta, N. Y., assignors to Quality Silk Mills, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 22, 1920. Serial No. 412,051. 4 Claims. (Cl. 112—151.)



1. A presser foot for a glove pointing machine having a pointer projecting laterally from its needle plate, another pointer projecting forwardly from the central part of the front edge of its needle plate and another pointer at the front edge of the side of the needle plate opposite that from which the lateral pointer projects.

1,378,821. ANTISKID TIRE-CHAIN. ANDREW LANGSTAFF JOHNSTON, Jr., Richmond, Va., assignor to Percival R. Moses, New York, N. Y. Filed Apr. 28, 1920. Serial No. 377,192. 2 Claims. (Cl. 152—14.)

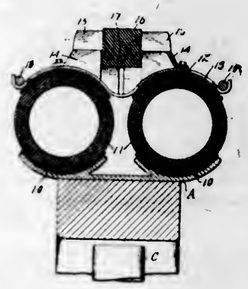


1. A non-skid tire chain of the character described, including a pair of side chains composed of links connected together in annular series, and a plurality of cross chains connecting said side chains and embodying hooks engaging with certain spaced links of said side chains, said hooks being provided with gaps therein of lesser width than the normal diameter of the links of the side chains with which they engage, said last mentioned links being provided with flattened portions on their inner sides adapted to permit the passage of the gaps in said hooks, the reduced portion of each of said reduced links being locked against registry with the gap in the corresponding hook by the adjacent link of the side chain, substantially as described.

1,378,822. TREATMENT OF LIXIVIATION-RESIDUE ZINC. RICHARD L. LLOYD, New York, N. Y., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 10, 1919. Serial No. 329,864. 1 Claim. (Cl. 75—18.)

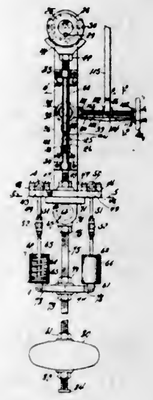
The herein described method for treating ore containing zinc sulfid and also other forms of zinc, it consisting in roasting the ore and forming soluble zinc bodies, subjecting the mass to the action of a solvent and dissolving out the soluble zinc component, then commingling with the solid residue a reducing agent and subjecting the mingled mass to the action of heat at a temperature below that at which zinc reduces and volatilizes, then again subjecting the mass to the action of a solvent and dissolving out the remainder of the zinc component.

1,378,823. VEHICLE-WHEEL. MICHAEL J. O'CONNOR, Bloomingdale, N. J. Filed Apr. 24, 1919, Serial No. 292,451. Renewed Mar. 6, 1920. Serial No. 363,665. 4 Claims. (Cl. 152—16.)



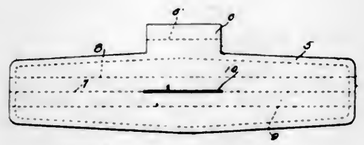
1. A pneumatic tire for wheels comprising an inner rim having parallel recesses, a plurality of pneumatic tubes mounted in said recesses, an outer rim having similar parallel recesses, pockets formed on the periphery of said outer rim, blocks located in said pockets, and a central circular tread located between said blocks, substantially as set forth.

1,378,824. AUTOMATICALLY-REGULATED PENDULUM. WALTER H. PARNELL, Jr., Brooklyn, N. Y. Filed May 31, 1918. Serial No. 237,670. 12 Claims. (Cl. 244—29.)



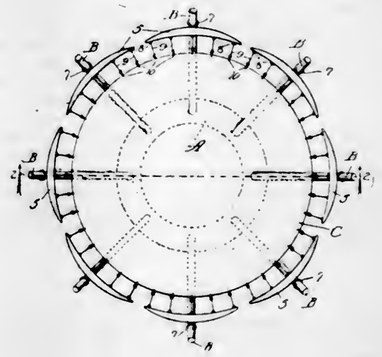
1. In a pendulum the combination of a pair of members, a bearing plate at the lower end of one of the members, a bearing cap at the accompanying end of the other member, said plate normally bearing on said cap and a brake to retard the movements of said pendulum when the members thereof are thrown out of alinement.

1,378,825. SHIRT-NECKBAND. CORNELIUS L. SHADER, Green Island, and JOHN E. FALLE, Troy, N. Y. Filed July 16, 1920. Serial No. 396,753. 3 Claims. (Cl. 2—41.)



1. A neck-band for shirts including a blank folded longitudinally to afford a pair of plies for the reception of the neck of the shirt, the blank being provided with a longitudinal slot centrally of its ends, and a tongue carried by one edge of the blank and insertible through the slot to space the plies at one point.

1,378,826. DOILY-STRETCHER. SAMUEL A. SNELLING and BERT M. SANER, Chicago, Ill., assignors, by direct and mesne assignments, of one-half to said Bert M. Saner and one-half to Joseph A. Farina, Chicago, Ill. Filed July 19, 1920. Serial No. 397,266. 3 Claims. (Cl. 45—24.)

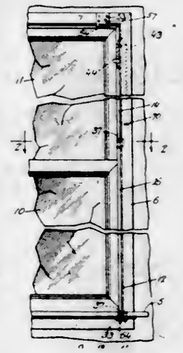


1. In a device of the class described, a base-support, a number of standards set therein at an inclined angle, a plurality of segments movably mounted on said standards, and means connected with said segments for grasping the border edge of an object, as a doily, and holding the same in an outstretched position.

1,378,827. [WITHDRAWN.]

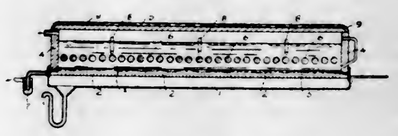
1,378,828. WINDOW. PETER HORSLEV, Chicago, Ill. Filed Nov. 22, 1919. Serial No. 339,812. 5 Claims. (Cl. 20—12.)

1. In a window frame, the combination of a jamb having a channel on the outer face adapted to engage the edge of the window sash, and a longitudinal opening in the jamb at the bottom of the channel, and of sufficient length to allow the sash to be moved edgewise therein, a movable jamb section closing the opening, a bracket on the frame at each end of the opening, and a spring mounted on each bracket and having spaced arms extending longitudinally in the opening at opposite sides of the section, and engaged with the section at a distance



from the ends so as to permit retraction of the section from the opening, and normally hold the section flush with the bottom of the channel.

1,378,829. APPARATUS FOR THE ELECTROLYSIS OF SOLUTIONS OF ALKALINE CHLORIDS. CLAUS NISSEN RIIBER, Trondhjem, Norway, assignor to Norsk Alkali A/S., Trondhjem, Norway. Filed Dec. 12, 1918. Serial No. 266,519. 13 Claims. (Cl. 204—58.)



1. The method of making diaphragms for use in electrolyte chambers which consists in securing upon a metal netting a fibrous material in a substantially pulverulent condition without an agglutinent, from a liquid containing the material in suspension.

1,378,830. APPARATUS FOR MINING COAL. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Apr. 7, 1915, Serial No. 19,746. Divided and this application filed Aug. 28, 1919, Serial No. 319,449. Renewed Mar. 3, 1921. Serial No. 449,502. 10 Claims. (Cl. 262—9.)

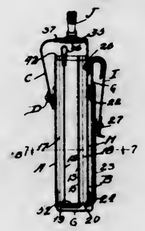


1. An apparatus for mining coal comprising a horizontally extending kerf cutter adapted to be moved either longitudinally or laterally to form a kerf at the base of a coal vein, means for breaking down the coal above said kerf, a conveyer in fixed relation with said kerf cutter

adapted to receive and remove said coal as it is broken down, and an auxiliary conveyer extending longitudinally of the coal face adjustable relative thereto, and adapted to receive the broken coal from said receiving conveyer.

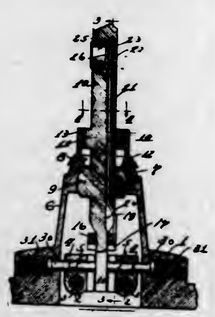
REISSUES.

15,104. BRIEF AND OTHER CARRYING CASE. MAYER AXELMAN and HARRY W. AXELMAN, Chicago, Ill. Filed Mar. 31, 1921. Serial No. 457,492. Original No. 1,329,574, dated Feb. 3, 1920, Serial No. 307,244, filed June 27, 1919. 7 Claims. (Cl. 190—43.)



5. A brief case having walls defining the limits thereof, and means for adjusting said case comprising a member secured to one wall interiorly thereof and passing beneath the brief case and rising adjacent the other wall.

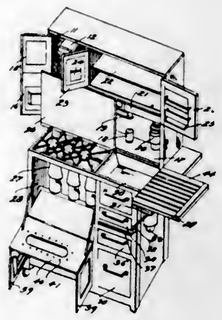
15,105. GEAR-SHIFT-LEVER LOCK. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 4, 1920. Serial No. 428,418. Original No. 1,299,954, dated Apr. 8, 1919, Serial No. 146,336, filed Feb. 3, 1917. 9 Claims. (Cl. 70—126.)



8. In a gear shift lever lock of the class described, means movably mounted on the gear shift rods of an automobile, a gear shift lever, and a mechanism thereon adapted to engage said means to hold said lever locked against movement.

15,106. KITCHENOLA. JACOB H. PETERS, Evansville, Ind. Filed Sept. 29, 1920. Serial No. 413,629. Original No. 1,318,229, dated Oct. 7, 1919, Serial No. 263,168, filed Nov. 19, 1918. 3 Claims. (Cl. 45—16.)

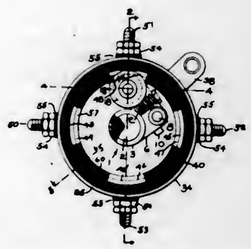
1. A compartmental kitchen cabinet having a plurality of compartments, a stove carried in one of said compartments, a sink carried in another of said compartments, a table portion covering the stove and sink compartments, the latter consisting of independently movable sections, that covering the stove compartment being hingedly mounted for forward swinging movement to form a shield in rear of the stove, that covering the sink compartment being mounted for lateral movement for inversion to form a drain board when thus inverted.



2. A compartmental kitchen cabinet having a plurality of compartments, a stove carried in one of said compartments, a sink carried in another of said compartments, a table portion covering the stove and sink compartments, the latter consisting of independently movable sections, that covering the stove compartment being hingedly mounted for rearward swinging movement to form a shield in rear of the stove, that covering the sink compartment being mounted for lateral movement for inversion to form a drain board when thus inverted, said sink covering section being provided with a hinged terminal leaf projecting laterally beyond the sink compartment and mounted for swinging movement in a direction at right angles to the movement of the sink covering portion proper.

3. A kitchen cabinet having a plurality of compartments, a stove carried in one of said compartments, a sink carried in another of said compartments, a table portion covering the stove and sink compartments, the latter consisting of independently movable sections, that covering the above compartment being adapted to serve as a shield in the rear of the stove, and that covering the sink being adapted to serve as a drain board.

15,107. TIMER. ESTOL SENN RUSH, Los Angeles, Calif. Filed Oct. 12, 1920. Serial No. 416,553. Original No. 1,332,637, dated Mar. 2, 1920, Serial No. 294,921, filed May 5, 1919. 17 Claims. (Cl. 200—24.)



7. In a timer having an annular track composed of alternating sections of insulating and conducting material; the combination of members rotating inside and about the axis of said track; a roller carried on said members, said roller having a secondary contact face; a spring forcing said roller radially against said track; and a spring forcing said secondary contact axially against said track.

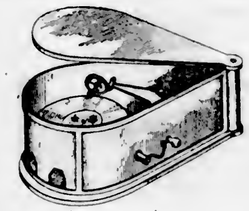
DESIGNS.

57,881. TIRE. OTTO BASTEN, Rutherford, N. J., assignor to Sterling Tire Corporation, Rutherford, N. J. Filed July 7, 1920. Serial No. 394,595. Term of patent 7 years.



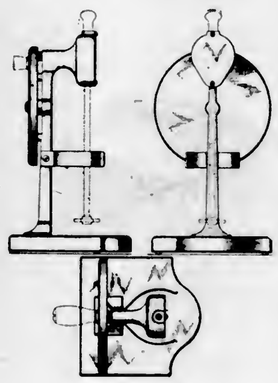
The ornamental design for a tire, as shown.

57,882. PHONOGRAPH-CABINET. PAUL A. BERGMAN, Portland, Oreg. Filed Feb. 8, 1921. Serial No. 443,475. Term of patent 7 years.



The ornamental design for the phonograph cabinet as shown.

57,883. MIXING AND STIRRING DEVICE. MATHEW BLACK, Brooklyn, N. Y., assignor to Harry Brudney, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,314. Term of patent 3½ years.



The ornamental design for a mixing and stirring device substantially as shown.

57,884. PORTABLE LAMP. WILLIAM R. BOISVERT, St. David, Quebec, Canada. Filed Jan. 22, 1920. Serial No. 353,335. Term of patent 3½ years.



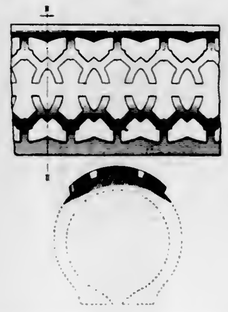
The ornamental design for a portable lamp, as shown.

57,885. PORTABLE LAMP. WILLIAM R. BOISVERT, St. David, Quebec, Canada. Filed Jan. 22, 1920. Serial No. 353,336. Term of patent 3½ years.



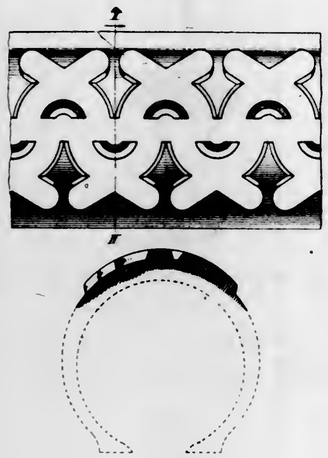
The ornamental design for a portable lamp, as shown.

57,886. TIRE-TREAD. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to Hannibal Rubber Company, Hannibal, Ohio, a Corporation of Missouri. Filed Dec. 3, 1920. Serial No. 428,135. Term of patent 14 years.



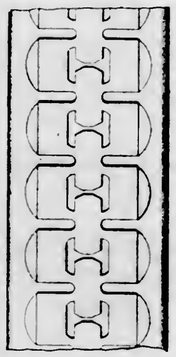
The ornamental design for a tire tread, as shown.

57,887. TIRE-TREAD. ARTHUR L. BREITENSTEIN, Akron, Ohio, assignor to Hannibal Rubber Company, Hannibal, Ohio, a Corporation of Missouri. Filed Dec. 3, 1920. Serial No. 428,136. Term of patent 14 years.



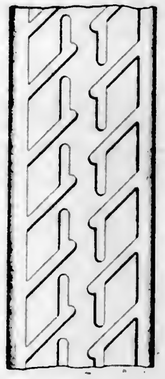
The ornamental design for a tire tread, as shown.

57,888. VEHICLE-TIRE. ROBERT BUTLER, Barberton, Ohio. Filed Feb. 20, 1920. Serial No. 360,163. Term of patent 3½ years.



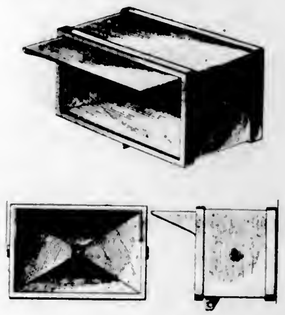
The ornamental design for a vehicle tire, as shown.

57,889. VEHICLE-TIRE. ROBERT BUTLER, Barberton, Ohio. Filed Feb. 20, 1920. Serial No. 360,164. Term of patent 3½ years.



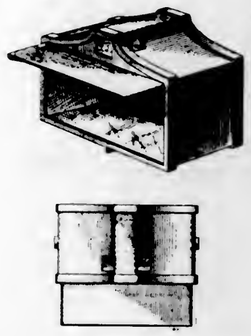
The ornamental design for a vehicle tire, as shown.

57,890. HEADLIGHT. PAUL R. COLLIER, Philadelphia, Pa. Filed Oct. 19, 1920. Serial No. 418,108. Term of patent 7 years.



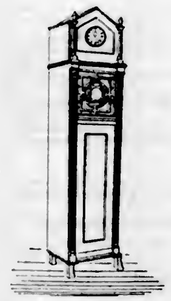
The ornamental design for a headlight as shown.

57,891. HEADLIGHT. PAUL R. COLLIER, Philadelphia, Pa. Filed Nov. 12, 1920. Serial No. 423,739. Term of patent 7 years.



The ornamental design for a headlight as shown.

57,892. COMBINED CLOCK AND PHONOGRAPH CABINET. SALVATORE CAIMI, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,327. Term of patent 7 years.



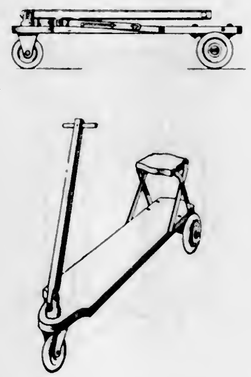
The ornamental design for a combined clock and phonograph cabinet, as shown.

57,893. TALCUM-POWDER BOX. FELIX EBERHART, Newark, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 16, 1920. Serial No. 403,958. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

57,894. TOY VEHICLE. GEORG EKLUND, Winona, Minn. Filed Nov. 8, 1920. Serial No. 422,743. Term of patent 7 years



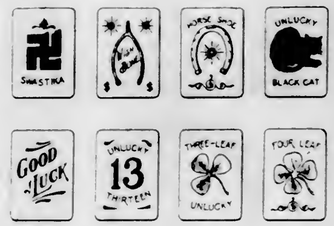
The ornamental design for a toy vehicle, as shown.

57,895. PHONOGRAPH-CABINET. CHARLES E. FERREIRA, San Francisco, Calif., assignor to Art Rattan Works, San Francisco, Calif., a Corporation of California. Filed Feb. 1, 1921. Serial No. 441,695. Term of patent 14 years.



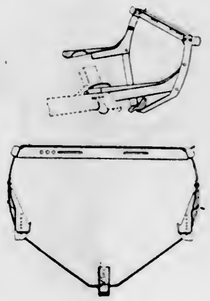
The ornamental design for a phonograph cabinet as shown.

57,896. SET OF PLAYING-CARDS. CARL K. FREDERICK, Detroit, Mich. Filed Nov. 29, 1920. Serial No. 427,239. Term of patent 14 years.



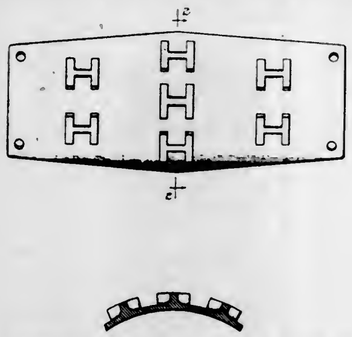
The ornamental design for a set of playing cards, as shown.

57,897. TIRE-CARRIER. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich., a Corporation of Delaware. Filed Dec. 9, 1920. Serial No. 429,601. Term of patent 14 years.



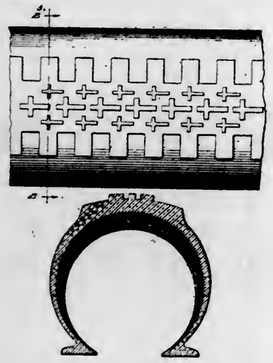
The ornamental design for a tire carrier, as shown.

57,898. NON-SKID PLATE FOR AUTOMOBILES. CHARLES B. GIBSON, Chicago, Ill. Filed Oct. 16, 1919. Serial No. 331,211. Term of patent 7 years.



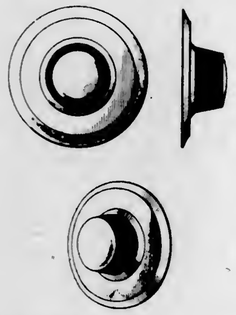
The ornamental design for a non-skid plate for automobile tires substantially as shown.

57,899. TIRE-TREAD. JAMES GRAHAM, Detroit, Mich. Filed July 14, 1920. Serial No. 396,320. Term of patent 14 years.



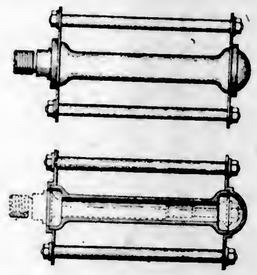
The ornamental design for a tire tread as shown.

57,900. CONTROL-HANDLE FOR REGULATING APPARATUS. ALFRED H. GREBE, Richmond Hill, N. Y., assignor to A. H. Grebe & Co., Inc., Richmond Hill, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,924. Term of patent 7 years.



The ornamental design for a control handle for regulating apparatus as shown.

57,901. BICYCLE-PEDAL. ROSCOE S. HEISS, Middletown, Ohio, assignor to The Miami Cycle and Manufacturing Company, Middletown, Ohio, a Corporation of Ohio. Filed Mar. 31, 1920. Serial No. 370,348. Term of patent 14 years.



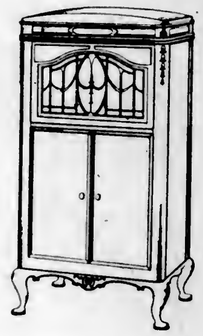
The ornamental design for a bicycle pedal, as shown.

57,902. BOX-COVER. EDWARD I. HEYMANN, New York, N. Y. Filed June 2, 1920. Serial No. 386,069. Term of patent 3½ years.



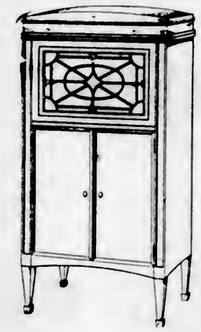
The ornamental design for a box cover, as shown.

57,903. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va. Filed Oct. 14, 1920. Serial No. 417,045. Term of patent 14 years.



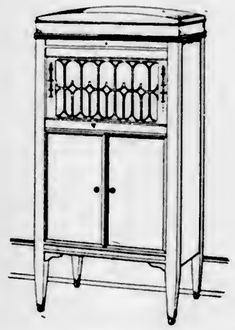
The ornamental design for a phonograph cabinet as shown.

57,904. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va. Filed Oct. 14, 1920. Serial No. 417,046. Term of patent 14 years.



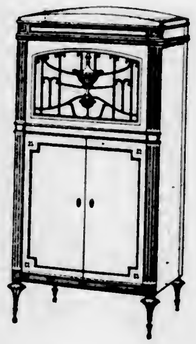
The ornamental design for a phonograph cabinet as shown.

57,905. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va. Filed Oct. 14, 1920. Serial No. 417,047. Term of patent 14 years



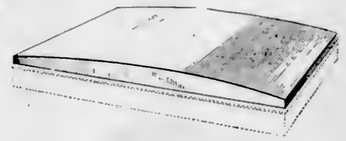
The ornamental design for a phonograph cabinet as shown.

57,906. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va. Filed Oct. 14, 1920. Serial No. 417,048. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

57,907. PHONOGRAPH-CABINET TOP. EDMOND C. HOWARD, Norfolk, Va. Filed Oct. 14, 1920. Serial No. 417,049. Term of patent 14 years.



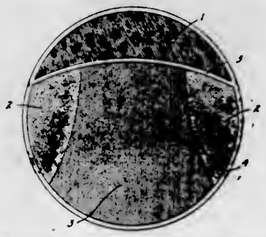
The ornamental design for a phonograph cabinet top as shown.

57,908. PHONOGRAPH-CABINET TOP. EDMOND C. HOWARD, Norfolk, Va. Filed Oct. 14, 1920. Serial No. 417,050. Term of patent 14 years.



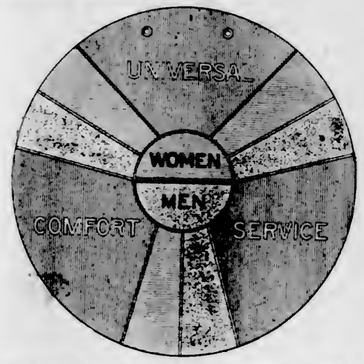
The ornamental design for a phonograph cabinet top, as shown.

57,909. LENS FOR HEADLIGHTS. JOHN H. HOWARD, Minneapolis, Minn., assignor to Ezra Garfield Stegner, James S. Ingalls, and John H. Howard, trustees. Filed Aug. 2, 1920. Serial No. 400,872. Term of patent 3½ years.



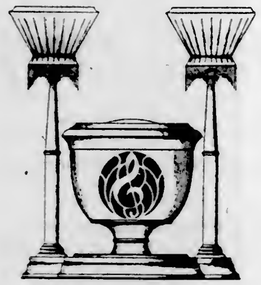
The ornamental design for a lens for headlights, as shown.

57,910. DIRECTION-INDICATOR. IVY DAPHENE HOWELL, Ballston Spa, N. Y. Filed Aug. 6, 1920. Serial No. 401,800. Term of patent 14 years.



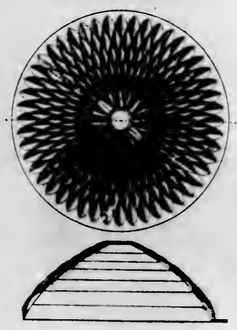
The ornamental design for a direction indicator substantially as shown and described.

57,911. COMBINED LAMP AND TALKING-MACHINE CASING. WASYL HUCAL, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,489. Term of patent 14 years.



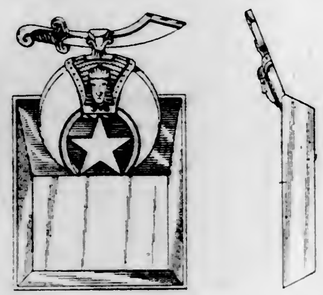
The ornamental design for a combined lamp and talking machine casing, as shown.

57,912. AUTOMOBILE-REFLECTOR. EMIL G. JOHANSON, Chicago, Ill. Filed Oct. 14, 1919. Serial No. 330,614. Term of patent 3½ years.



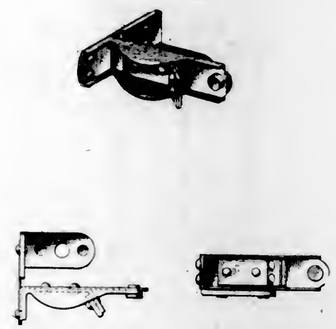
The ornamental design for an automobile reflector, as shown.

57,913. ASH-TRAY. LLOYD KELCH, Wabash, Ind., assignor of one-half to Ford Meter Box Company, Wabash, Ind. Filed Apr. 24, 1920. Serial No. 376,415. Term of patent 7 years.



The ornamental design for an ash tray, as shown.

57,914. IGNITION-CONTACTOR. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Dec. 13, 1920. Serial No. 430,586. Term of patent 14 years.



The ornamental design for an ignition contactor, as shown.

57,915. LIGHTING-FIXTURE. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,286. Term of patent 3½ years.



The ornamental design for a lighting fixture as shown.

57,916. LIGHTING-FIXTURE. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,287. Term of patent 3½ years.



The ornamental design for a lighting fixture, as shown.

57,917. LIGHTING-FIXTURE. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,289. Term of patent 3½ years.



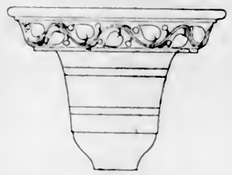
The ornamental design for a lighting fixture as shown.

57,918. BRACKET-BACK FOR LIGHTING-FIXTURES. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,292. Term of patent 3½ years.



The ornamental design for a bracket-back for lighting fixtures as shown.

57,919. CANOPY. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York Filed Oct. 28, 1920. Serial No. 420,293. Term of patent 3½ years.



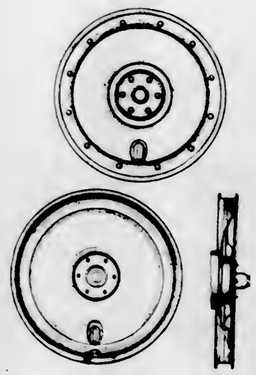
The ornamental design for a canopy, as shown.

57,920. CANDLE-HOLDER. LULU V. LAVELL, Minneapolis, Minn. Filed Oct. 4, 1920. Serial No. 414,683. Term of patent 14 years.



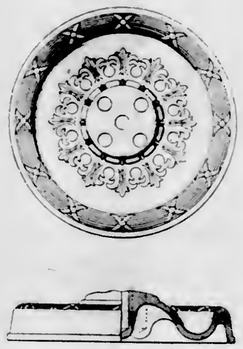
The ornamental design for a candle holder, as shown.

57,921. VEHICLE-WHEEL. VICTOR LOUGHEED, Santa Barbara, Calif., assignor to Duodisk Steel Wheel Corporation, Los Angeles, Calif., a Corporation of Delaware. Filed Nov. 26, 1920. Serial No. 426,655. Term of patent 14 years.



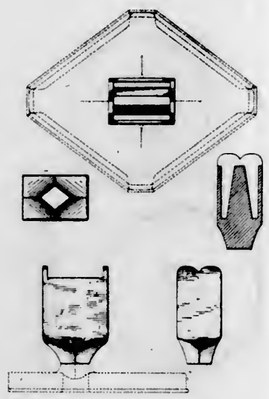
The ornamental design for a vehicle wheel as shown.

57,922. UMBRELLA-STAND. ANGUS S. MACDONALD, Great Neck, N. Y., assignor to Snead & Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 16, 1920. Serial No. 424,565. Term of patent 14 years.



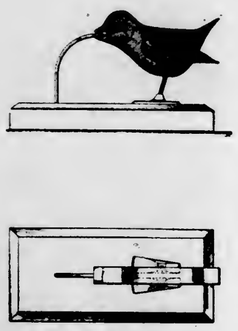
The ornamental design for an umbrella stand, as shown.

57,923. HOLDER FOR BOOK-MATCHES. EDWIN A. MERRITT, New York, N. Y., assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 1, 1919. Serial No. 335,192. Term of patent 14 years.



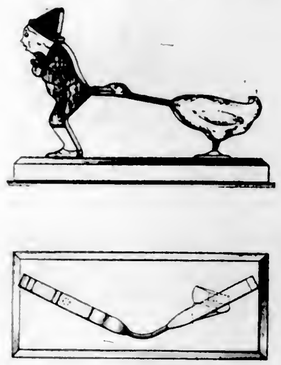
The ornamental design for a holder for book matches substantially as shown.

57,924. FIGURE TOY. PETER S. H. NEWELL, Leonia, N. J., assignor to The Diamond Toy Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1920. Serial No. 417,054. Term of patent 14 years.



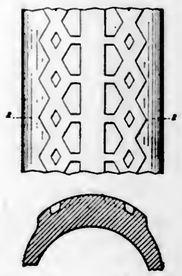
The ornamental design for a figure toy, substantially as shown.

57,925. FIGURE TOY. PETER S. H. NEWELL, Leonia, N. J., assignor to The Diamond Toy Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1920. Serial No. 417,055. Term of patent 14 years.



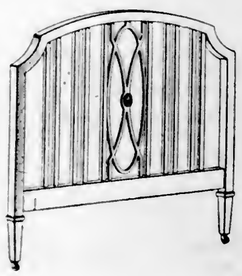
The ornamental design for a figure toy, substantially as shown.

57,926. TIRE-CASING. GEORGE W. ODELL, South Bend, Ind., assignor to International India Rubber Corporation, South Bend, Ind., a Corporation of Delaware. Filed Apr. 3, 1920. Serial No. 371,168. Term of patent 3½ years.



The ornamental design for a tire casing as shown.

57,927. BEDSTEAD END. WALTER PAPOLL, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Oct. 9, 1920. Serial No. 415,912. Term of patent 14 years.



The ornamental design for a bedstead end, as shown and described.

57,928. KEY-RING. CHARLES H. PAYNE, Cincinnati, Ohio. Filed Sept. 16, 1920. Serial No. 410,770. Term of patent 3½ years.



The ornamental design for a key ring, as shown.

57,929. SHOE ORNAMENT. GEORGE HERMAN PULSIFER, Haverhill, Mass. Filed Nov. 11, 1920. Serial No. 423,489. Term of patent 3½ years.



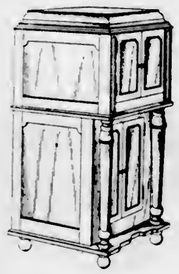
The ornamental design for a shoe ornament as shown.

57,930. PLURAL LAMP-SOCKET. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Nov. 26, 1920. Serial No. 426,659. Term of patent 14 years.



The ornamental design for a plural lamp socket as shown.

57,931. PHONOGRAPH-CABINET. ALBERT W. J. SCHULER, East Concord, N. Y. Filed Jan. 15, 1921. Serial No. 437,594. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

57,932. INSIDE MICROMETER. CRESTON W. SCOTT, Greenfield, Mass., assignor to Goodell-Pratt Company, Greenfield, Mass., a Corporation of Massachusetts. Filed Jan. 27, 1921. Serial No. 440,509. Term of patent 7 years.



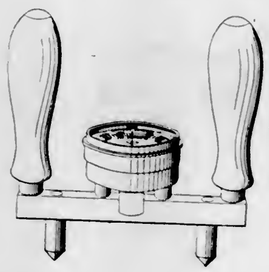
The ornamental design for an inside micrometer, as shown.

57,933. GOBLET OR SIMILAR ARTICLE OF GLASSWARE. ALBERT E. SEHLBACH, Chicago, Ill., assignor to Albert Pick & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,947. Term of patent 7 years.



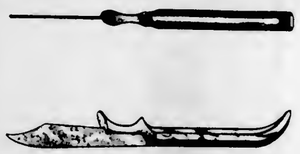
The ornamental design for a goblet or similar article of glassware as shown.

57,934. ELECTRICAL MEASURING INSTRUMENT. HARRY I. SHIRE, Detroit, Mich. Filed Jan. 12, 1921. Serial No. 436,838. Term of patent 14 years.



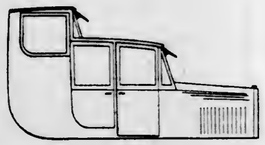
The ornamental design for an electrical measuring instrument as shown.

57,935. KNIFE-HANDLE. FRANK J. SHIVELY, Canton, Ohio. Filed Nov. 2, 1920. Serial No. 421,421. Term of patent 14 years.



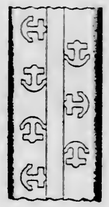
The ornamental design for a knife handle, as shown.

57,936. AUTOMOBILE-BODY. DE WANE B. SMITH, Utica, N. Y. Filed Nov. 20, 1920. Serial No. 425,570. Term of patent 7 years.



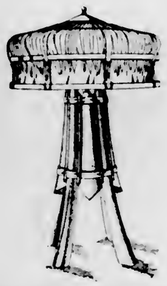
The ornamental design for an automobile body as shown.

57,937. TIRE OR SIMILAR ARTICLE. F. HASKELL SMITH, Bloomfield, N. J. Filed Jan. 16, 1920. Serial No. 351,949. Term of patent 14 years.



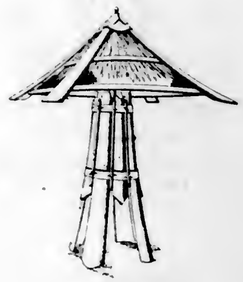
The ornamental design for a tire or a similar article as shown.

57,938. LAMP. JAMES SMITH, Tampa, Fla., assignor to The Palm Craft Company, Tampa, Fla., a Corporation of Florida. Filed Nov. 6, 1920. Serial No. 422,395. Term of patent 14 years.



The ornamental design for a lamp as shown.

57,939. LAMP. JAMES SMITH, Tampa, Fla., assignor to The Palm Craft Company, Tampa, Fla., a Corporation of Florida. Filed Nov. 6, 1920. Serial No. 422,396. Term of patent 14 years.



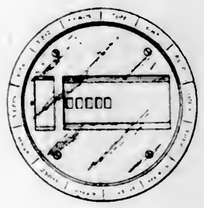
The ornamental design for a lamp as shown.

57,940. LAMP. JAMES SMITH, Tampa, Fla., assignor to The Palm Craft Company, Tampa, Fla., a Corporation of Florida. Filed Nov. 6, 1920. Serial No. 422,397. Term of patent 14 years.



The ornamental design for a lamp as shown.

57,941. FACE-PLATE FOR METERS OR SIMILAR MEASURING INSTRUMENTS. MARVIN SMITHEY, Lawrenceville, Va. Filed Nov. 21, 1916. Serial No. 132,705. Term of patent 14 years.



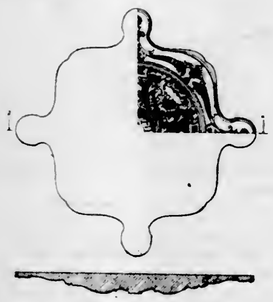
The ornamental design for a face plate for a meter or a similar measuring instrument, as shown and described.

57,942. ELECTRIC-BULB HOLDER. ADAM SPANIAK, Baltimore, Md., assignor of one-half to William I. Price, Baltimore, Md. Filed Oct. 8, 1920. Serial No. 415,702. Term of patent 7 years.



The ornamental design for an electric bulb holder as shown.

57,943. CEILING-PLATE FOR A LIGHTING-FIXTURE. GEORGE V. STRAHAN, Newark, N. J., and FREDERICK W. MATHIEU, New York, N. Y., assignors to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 12, 1920. Serial No. 416,561. Term of patent 7 years.



The ornamental design for a ceiling plate for a lighting fixture, as shown.

57,944. CANOPY FOR A LIGHTING-FIXTURE. GEORGE V. STRAHAN, Newark, N. J., and FREDERICK W. MATHIEU, New York, N. Y., assignors to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 12, 1920. Serial No. 416,562. Term of patent 7 years.



The ornamental design for a canopy for a lighting fixture, as shown.

57,945. SOCKET-COVER FOR A LIGHTING-FIXTURE. GEORGE V. STRAHAN, Newark, N. J., and FREDERICK W. MATHIEU, New York, N. Y., assignors to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 12, 1920. Serial No. 416,563. Term of patent 7 years.



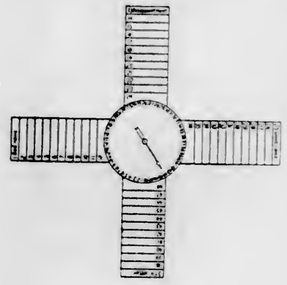
The ornamental design for a socket cover for a lighting fixture, as shown.

57,946. SOCKET-COVER FOR A LIGHTING-FIXTURE. GEORGE V. STRAHAN, Newark, N. J., and FREDERICK W. MATHIEU, New York, N. Y., assignors to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 12, 1920. Serial No. 416,564. Term of patent 7 years.



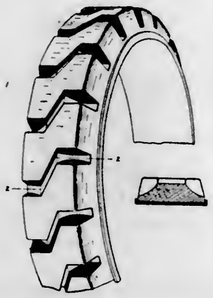
The ornamental design for a socket cover for a lighting fixture, as shown.

57,947. GAME-BOARD. ELISABETH SUTTON, Paterson, N. J. Filed Jan. 17, 1921. Serial No. 438,030. Term of patent 7 years.



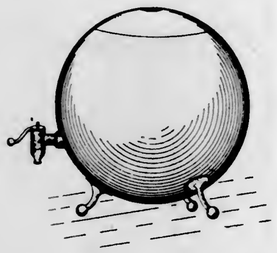
The ornamental design for a game board, as shown

57,948. VEHICLE-TIRE. MAURICE SWITZER, New York, N. Y., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,585. Term of patent 14 years.



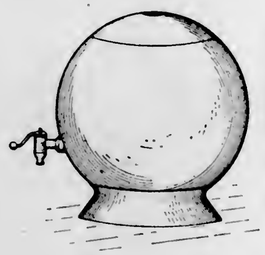
The ornamental design for a vehicle tire as shown.

57,949. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed Nov. 19, 1920. Serial No. 425,266. Term of patent 7 years.



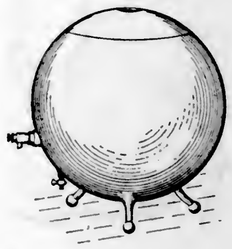
The ornamental design for a beverage dispensing apparatus, as shown.

57,950. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed Nov. 19, 1920. Serial No. 425,267. Term of patent 7 years.



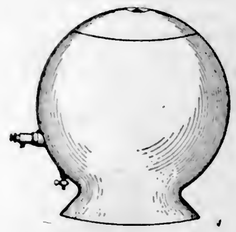
The ornamental design for a beverage dispensing apparatus, as shown.

57,951. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed Nov. 19, 1920. Serial No. 425,268. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.

57,952. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed Nov. 19, 1920. Serial No. 425,269. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.

57,953. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 20, 1920. Serial No. 404,923. Term of patent 14 years.



The ornamental design for a tire as shown

57,954. BEAUTY-CREAM CASKET. MIREILLE UBELMANN, Paria, France. Filed July 9, 1920. Serial No. 395,170. Term of patent 14 years.



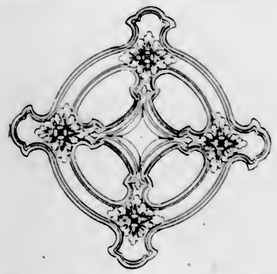
The ornamental design for a beauty-cream casket, as shown.

57,955. COLOR-MIXER. CLIFFORD D. UPTON, Piqua, Ohio, assignor to The Piqua Handle & Manufacturing Company, Piqua, Ohio, a Corporation of Ohio. Filed Dec. 14, 1920. Serial No. 430,763. Term of patent 14 years.



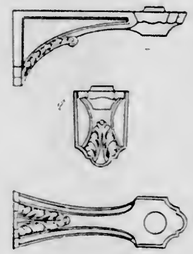
The ornamental design for a color mixer, as shown.

57,956. PLATE FOR LIGHTING-FIXTURES. ERNEST A. WALKER, Newark, N. J., assignor to Artcraft Fixture Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 14, 1920. Serial No. 417,056. Term of patent 7 years.



The ornamental design for a plate for lighting fixtures, as shown.

57,957. ARM FOR LIGHTING-FIXTURES. ERNEST A. WALKER, Newark, N. J., assignor to Artcraft Fixture Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 16, 1920. Serial No. 417,497. Term of patent 7 years.



The ornamental design for an arm for lighting fixtures, as shown.

57,958. BANK. JAMES A. WARDE, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,546. Term of patent 14 years.



The ornamental design for a bank, as shown.

57,959. PHONOGRAPH-CABINET. JESSE J. WARNER, Canton, Ohio. Filed Dec. 16, 1920. Serial No. 431,268. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 17, 1921.

[PUBLISHED MAY 31, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 113,559. (CLASS 12. CONSTRUCTION MATERIALS.) GEO. S. GOOD FIRE BRICK CO., Patton, Pa. Filed Oct. 3, 1918.

WOODISON STEEL

Particular description of goods.—Fire-Bricks and Paving-Blocks.

Claims use since May, 1911.

Ser. No. 114,069. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. BUCK & CO. CALORA, Zurich, Switzerland. Filed Nov. 1, 1918.



Particular description of goods.—Electric Cooking and Heating Stoves, Plates, and Resistances, Electric Heating-Cushions, Carpets, Bed-Warmers, All for Household Purposes.

Claims use since May 21, 1918.

Ser. No. 116,179. (CLASS 37. PAPER AND STATIONERY.) ALVAH BUSHNELL COMPANY, Philadelphia, Pa. Filed Feb. 27, 1919.

Vertex

No claim being made to the words "Vertical Expanding."

Particular description of goods.—Paper and Paper-Composition Filing-Containers, Mailing-Envelops, and Letter-Files of Paper and Paper Composition.

Claims use since May 1, 1918.

Ser. No. 119,257. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WEIDELY MOTORS COMPANY, Indianapolis, Ind. Filed June 5, 1919.



No exclusive claim is made to the word "Motors."

Particular description of goods.—Internal-Combustion Engines.

Claims use since May 22, 1919.

Ser. No. 120,124. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PAGET MANUFACTURING COMPANY LIMITED, Sydney, New South Wales, Australia. Filed June 30, 1919.

CLEVER MARY

Particular description of goods.—Cleansing Composition and Soap.

Claims use since the year 1914.

Ser. No. 120,824. (CLASS 39. CLOTHING.) O. F. GRAB & CO., New York, N. Y. Filed July 23, 1919.



No claim is made to the exclusive use of the words "Paris, New York" apart from the mark shown in the drawing.

Particular description of goods.—Ladies' Shirtwaists and Ladies' Blouses.

Claims use since Mar. 1, 1919.

Ser. No. 121,270. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WALDES & Co., Prague, Bohemia. Filed Aug. 4, 1919.



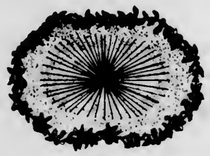
Particular description of goods.—Cigarette-Paper Cut to Size and Ready for Use, Portable Cigarette-Makers, and Cigarette-Tubes.
Claims use since Feb. 3, 1920.

Ser. No. 123,174. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ABE SAMSON, Cedarhurst, N. Y. Filed Sept. 26, 1919.



Particular description of goods.—Spark-Plugs.
Claims use since Aug. 14, 1919.

Ser. No. 125,246. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RADIOR CO. LTD. OF LONDON, New York, N. Y. Filed Nov. 24, 1919.



Consisting of a panel of a purple hue, substantially as shown, with white rays radiating from the center toward the sides of the panel, said panel being surrounded by a garland of roses of pinkish hues and leaves of greenish hues.
Particular description of goods.—Skin-Soap.
Claims use since November, 1913.

Ser. No. 126,234. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SHERMAN, CLAY & CO., San Francisco, Calif. Filed Dec. 18, 1919.

JAZZ BAND

Particular description of goods.—Harmonicas or Mouth-Organs.
Claims use since March, 1919.

Ser. No. 126,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 22, 1919.

GRANDMOTHER'S
A&P

Particular description of goods.—Crushed Oats, Yellow Cornmeal, Farina, Pearl-Tapioca, Barley, Wheat-Farina; Currants, (Dried;) Rice, Gelatin, Canned Asparagus, Beans with Pork, Beans and Pork, Canned Tomatoes, Pumpkin, Spinach, Stringless Beans, Peas, Corn, Lima Beans, Grated Pineapple, Sliced Pineapple, Preserved Red Raspberries, Sliced Yellow Cling-Peaches, Beets, Asparagus-Tips, and Squash.
Claims use since about 1900.

Ser. No. 126,321. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Dec. 22, 1919.

DEEP-O-DIVER

Particular description of goods.—Artificial Minnows.
Claims use since Aug. 21, 1918.

Ser. No. 127,167. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WYMAN PARTRIDGE & CO., Minneapolis, Minn. Filed Jan. 14, 1920.

HYLAND



The picture being fanciful.
Particular description of goods.—Linen Crash.
Claims use since Dec. 23, 1919.

Ser. No. 127,445. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PENSCO PRODUCTS CO., Dayton, Ohio. Filed Jan. 21, 1920.

PENSCO

Particular description of goods.—Polish for Furniture, Automobiles, and Floors, Floor-Wax in Both Paste and Liquid Forms.
Claims use since about Nov. 1, 1919.

Ser. No. 127,543. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHESTER A. CAWLEY, Somerville, N. J. Filed Jan. 24, 1920.

Yellow Label

No claim being made to the right to the exclusive use of the label colored yellow.
Particular description of goods.—A Non-Alcoholic Fruit Beverage Sold as a Soft Drink.
Claims use since Jan. 14, 1920.

Ser. No. 127,661. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SALES DEPARTMENT, GILLICAN-CHIPLEY CO., INC., New Orleans, La. Filed Jan. 27, 1920.

PREMIER BRAND
Pure
Gum Spirits
of
TURPENTINE

The exclusive use of the words "Brand" and "Pure Gum Spirits of Turpentine" is disclaimed apart from the mark shown in the drawing. The crescent and word "Turpentine" are shown in red.
Particular description of goods.—Turpentine.
Claims use since Dec. 1, 1919.

Ser. No. 128,022. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALEX. D. SHAW & CO., New York, N. Y. Filed Feb. 5, 1920.

MILTON

Consists of the arbitrary word "Milton" in white on a blue ground.
Particular description of goods.—A Polish for Woodwork, Tables, and Floors.
Claims use since Jan. 30, 1918.

Ser. No. 128,140. (CLASS 39. CLOTHING.) BLACK CAT TEXTILES COMPANY, (now by change of name The Allen A. Company,) Kenosha, Wis. Filed Feb. 9, 1920.

Black Cat

Particular description of goods.—Knit Hosiery.
Claims use since Dec. 1, 1895.

Ser. No. 128,334. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE WEIR FROG COMPANY, Norwood, Ohio. Filed Feb. 12, 1920.

TITAN

Particular description of goods.—Frogs, Guard-Rail Clamps, Rail-Braces, Ties.
Claims use since Apr. 17, 1917.

Ser. No. 128,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YVETTE CO., New York, N. Y. Filed Feb. 12, 1920.



Particular description of goods.—Hair-Tonics.
Claims use since Jan. 14, 1920.

Ser. No. 128,750. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN FORK AND HOE COMPANY, Cleveland, Ohio. Filed Feb. 24, 1920.

AMERICAN GARDENER

Particular description of goods.—Hand-Cultivators.
Claims use since about Jan. 24, 1920.

Ser. No. 128,860. (CLASS 39. CLOTHING.) OELBAUM BROS. & BAUER, New York, N. Y. Filed Feb. 24, 1920.

TOMMY TUCKER

Particular description of goods.—Boys' Shirts and Blouses.
Claims use since Sept. 15, 1919.

Ser. No. 128,977. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MONTROSE WORSTED COMPANY, Woonsocket, R. I., and New York, N. Y. Filed Feb. 27, 1920.

MWC

Particular description of goods.—Worsteds and Woolens, Both in the Piece.
Claims use since January, 1913.

Ser. No. 129,025. (CLASS 39. CLOTHING.) SALOMON, BLUM AND CO., New York, N. Y. Filed Feb. 28, 1920.

Super Customade

Particular description of goods.—Ladies' Suits, Coats, and Dresses.
Claims use since about Jan. 27, 1920.

Ser. No. 129,260. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INLAND AMERICAN TRACTOR COMPANY, Eau Claire, Wis. Filed Mar. 5, 1920.

Cata-Gripper

Particular description of goods.—Tractors.
Claims use since on or about July 1, 1919.

Ser. No. 129,274. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM R. MOORE DRY GOODS COMPANY, Memphis, Tenn. Filed Mar. 5, 1920.

SEVEN



Particular description of goods.—Ginghams, Zephyrs, and Cheviots in the Piece.
Claims use since Oct. 21, 1904.

Ser. No. 129,743. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PLATT-RUBIN COMPANY, Chicago, Ill. Filed Mar. 15, 1920.



Particular description of goods.—Velocipedes.
Claims use since on or about June 20, 1919.

Ser. No. 130,017. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUFFALO LENS MFG. CO. INC., Buffalo, N. Y. Filed Mar. 22, 1920.



No claim being made to the exclusive use of the word "Lens" and the representation of a lens apart from the mark as shown in the drawing.
Particular description of goods.—Ophthalmic Lenses.
Claims use since Sept. 12, 1919.

Ser. No. 130,214. (CLASS 37. PAPER AND STATIONERY.) HARRY W. WEBSTER, Toledo, Ohio. Filed Mar. 26, 1920.



Particular description of goods.—Wall-Paper.
Claims use since Mar. 1, 1918.

Ser. No. 131,306. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) J. BRIGGS & SONS CO., Providence, R. I. Filed Apr. 19, 1920.



Particular description of goods.—Metals—Namely, Solid Gold and Silver in Bar, Sheet, Strip, Wire, Tubular, and Rod Form; Gold and Silver Solders, and Gold and Silver Rolled Plate.
Claims use since Mar. 16, 1920.

Ser. No. 131,392. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AUGUST C. KLENKE, San Francisco, Calif. Filed Apr. 20, 1920.

BABY BLUE

Particular description of goods.—Child's Toy Vehicle.
Claims use since Dec. 1, 1919.

Ser. No. 131,540. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SABERTON MFG. CO., Tampa, Fla. Filed Apr. 23, 1920.

WHITE CRESCENT

Consisting of the words "White Crescent."
Particular description of goods.—Soap.
Claims use since Apr. 10, 1920.

Ser. No. 131,924. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JASON H. TUTTLE, New York, N. Y. Filed May 1, 1920.

CASTUT

Particular description of goods.—Metal Castings for Dental Work, Consisting of Bridges, Crowns, Inlays, and Plates.
Claims use since Dec. 1, 1919.

Ser. No. 132,020. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MANUFACTURE METALLURGIQUE DE TOURNUS, Tournus, France. Filed May 4, 1920.



Particular description of goods.—Metallic Kitchen and Cooking Utensils Comprising Coffee-Pots, Teapots, Cooking-Boilers, Double Boilers, Teakettles, Saucepans, Casseroles, Cooking-Pots, Cooking-Basins, Pudding-Pans, Frying-Pans, Skillets, Mixing-Bowls, Pie-Plates, Colanders, Roasters, Dishpans, Kettle and Pot Covers, Griddles, Strainers, Pitchers, Pails, Buckets, Dippers, Washbasins, Ladles, Skimmers, Cake-Turners, Funnels, Jelly-Molds, Salt and Pepper Shakers, Cups, and Trays.
Claims use since Aug. 1, 1911.

Ser. No. 132,381. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MICHAEL J. DAVIS, Brooklyn, N. Y. Filed May 13, 1920.



Particular description of goods.—Malt-Syrup Used in Making Malt Beverages.
Claims use since Mar. 29, 1920.

Ser. No. 132,940. (CLASS 39. CLOTHING.) RICHARD HAWORTH AND COMPANY, LIMITED, Manchester, England. Filed May 25, 1920.



No claim being made to the word "Make" apart from the mark shown.
Particular description of goods.—Baby-Linen—Namely, Robes, Coats, Petticoats, Knickers, Shirts, Pinafores, Capes, Feeders, Creepers, Bonnets, and Waterproof Garments; Children's Undergarments—Namely, Combinations, Singlets, Bloomers, Knickers, and Petticoats; Ladies' and Misses' Apparel—Namely, Dresses, Pajamas, Skirts, Night-Dresses, Night-Shirts, Overalls, Dressing-Gowns, Robes, Uniforms, Blouses, Capes, Caps, Costumes, Aprons, Scarfs, and Waterproof Garments; Ladies' and Misses' Undergarments—Namely, Chemises, Pinafores, Bodices, Camisoles, Aprons, Underskirts, Combinations, Singlets, Bloomers, Knickers and Petticoats, Union-Suits, and Waterproof Garments; Men's and Boys' Outer Garments; Dress, Negligée, and Work Shirts; Aprons, Blouses, Capes, Caps, Scarfs, Costumes, Pajamas, Trousers, Overalls, Uniforms, Robes, Night-Shirts, and Waterproof Garments; Men's and Boys' Undergarments — Namely, Shirts, Singlets, Pants, Combinations, Union-Suits, and Waterproof Garments.
Claims use since Aug. 12, 1907.

Ser. No. 133,239. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN KARDEX COMPANY, Tonawanda, N. Y. Filed June 4, 1920.

KARDEX

Particular description of goods.—Card-Index, Record, and Filing Systems Comprising Cabinets and Cases and Card-Holders for Maintaining Cards Therein in Some Prescribed Order and Arrangement and Constituting Office Furniture; Record, Index, and Filing Cases and Cabinets and Parts Thereof; Record, Index, and File Holders and Boxes and Parts Thereof; Record, Index, and Card Holding Frames and Parts Thereof; Record, Index, and File Desks and Tables and Parts Thereof; Record, Stacks of Index and Card-File Holding Shelves; Bulletin and Record and Card Holding Boards and Frames; Record and Card Supporting and Holding Brackets and Parts Thereof, and Record, Index, and Card Holding Racks.
Claims use since on or about Jan. 1, 1916.

Ser. No. 133,240. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN KARDEX COMPANY, Tonawanda, N. Y. Filed June 4, 1920.

KARDEX
Cards in Sight

No claim is made to the words "Cards in Sight" apart from the mark set forth in the drawing. The lining on the drawing is for shading only.

Particular description of goods.—Card-Index, Record, and Filing Systems Comprising Cabinets and Cases and Card-Holders for Maintaining Cards Therein in Some Prescribed Order and Arrangement and Constituting Office Furniture; Record, Index, and Filing Cases and Cabinets and Parts Thereof; Record, Index, and File Holders and Boxes and Parts Thereof; Record, Index, and Card Holding Frames and Parts Thereof; Record, Index, and File Desks and Tables and Parts Thereof; Record, Stacks of Index and Card-File Holding Shelves; Bulletin and Record and Card Holding Boards and Frames; Record and Card Supporting and Holding Brackets and Parts Thereof, and Record, Index, and Card Holding Racks.

Claims use since on or about Jan. 1, 1916.

Ser. No. 133,241. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN KARDEX COMPANY, Tonawanda, N. Y. Filed June 4, 1920.

CARDEX

Particular description of goods.—Card-Index, Record, and Filing Systems Comprising Cabinets and Cases and Card-Holders for Maintaining Cards Therein in Some Prescribed Order and Arrangement and Constituting Office Furniture; Record, Index, and Filing Cases and Cabinets and Parts Thereof; Record, Index, and File Holders and Boxes and Parts Thereof; Record, Index, and Card Holding Frames and Parts Thereof; Record, Index, and File Desks and Tables and Parts Thereof; Record, Stacks of Index and Card-File Holding Shelves; Bulletin and Record and Card Holding Boards and Frames; Record and Card Supporting and Holding Brackets and Parts Thereof, and Record, Index, and Card Holding Racks.

Claims use since on or about Jan. 1, 1916.

Ser. No. 133,243. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN KARDEX COMPANY, Tonawanda, N. Y. Filed June 4, 1920.

CONTROLLER

Particular description of goods.—Card-Index, Record, and Filing Systems Comprising Cabinets and Cases and Card-Holders for Maintaining Cards Therein in Some Prescribed Order and Arrangement and Constituting Office Furniture; Record, Index, and Filing Cases and Cabinets and Parts Thereof; Record, Index, and File Holders and Boxes and Parts Thereof; Record, Index, and Card Holding Frames and Parts Thereof; Record, Index, and File Desks and Tables and Parts Thereof; Record, Stacks of Index and Card-File Holding Shelves; Bulletin and Record and Card Holding Boards and Frames; Record and Card Supporting and Holding Brackets and Parts Thereof, and Record, Index, and Card Holding Racks.

Claims use since on or about Jan. 1, 1916.

Ser. No. 134,043. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J. Filed June 22, 1920.

SMOOTH-ON

Particular description of goods.—Sheet-Packing Containing Comminuted Iron and Sheet-Metal Gaskets.

Claims use since 1894.

Ser. No. 134,044. (CLASS 5. ADHESIVES.) SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J. Filed June 22, 1920.

SMOOTH-ON

Particular description of goods.—Adhesive Tape for Repair Purposes and the Like.

Claims use since 1894.

Ser. No. 134,085. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OIL WELL SUPPLY COMPANY, Pittsburgh, Pa. Filed June 23, 1920.

C W O

Particular description of goods.—Steam-Engines, Gas-Engines; Boiler and Engine Fittings—Namely, Tube-Expanders, Flue-Cleaners, Steam-Whistles, Inspirators, and Injectors; Steam-Pumps, Rotary Pumps, Jet-Pumps, Slush-Pumps, Force-Pumps, Ejectors, Pitcher-Spout Pumps, Hydraulic Rams, Drilling and Fishing Tools for Cable Systems, Rotary Well-Drilling Tools; Well Equipment—Namely, Elevators, Anchor-Clamps, and Casing-Heads; Oil-Well Packers, Pumping Machinery and Equipment; Oil-Well-Pipe Tools—Namely, Pipe-Benders, Pipe-Cutters, Pipe-Threading Machines, Stocks and Dies, Tongs, Wrenches, Pipe-Drills.

Claims use since about 1906.

Ser. No. 134,292. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUSTIN, NICHOLS & COMPANY, INCORPORATED, Brooklyn and New York, N. Y. Filed June 28, 1920.

BIG TREE

Particular description of goods.—Canned Food Products, as Follows: Salmon, Sliced Beef, Vegetables, Fruits, and Jams.

Claims use since June 15, 1887.

Ser. No. 134,588. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE F. HICKOK, San Francisco, Calif. Filed July 6, 1920.

LOYSTEEL

Particular description of goods.—Grapple, Swamp, and Grab Hooks and Skidding-Tongs, Wedges and Sledges, Grinding-Balls, Grinding-Rods, Stamp-Shoes, and Dies.

Claims use since June 1, 1920.

Ser. No. 134,856. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STROUD MOTOR MANUFACTURING ASS'N, LTD., San Antonio, Tex. Filed July 12, 1920.

ALL-IN-ONE

Particular description of goods.—Tractors.

Claims use since May 8, 1920.

Ser. No. 134,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAHAM COHEN, Baltimore, Md. Filed July 13, 1920.

STAR LIGHT

No claim being made to the pictorial representation of the Eastern and Western Hemispheres apart from the trade-mark as shown.

Particular description of goods.—A Cooking and Shortening Compound.

Claims use since Aug. 1, 1919.

Ser. No. 135,112. (CLASS 37. PAPER AND STATIONERY.) ROBINSON MANUFACTURING CO., Westfield, Mass. Filed July 17, 1920.



The use of the words "The, Tear Out When Attended to. Live Notes Only" and the representation of the goods apart from the trade-mark being disclaimed.

Particular description of goods.—Memorandum-Books and Fillers Therefor.

Claims use since June 21, 1920.

Ser. No. 135,634. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) B. & C. MFG. CO., St. Louis Park, Minn. Filed July 31, 1920.

FIZETTE

Particular description of goods. — Non-Intoxicating, Maltless Beverage Containing Less Than One-Half of One Per Cent. Alcohol, by Volume.

Claims use since June 17, 1920.

Ser. No. 135,746. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) EDWARD DANCIG, New York, N. Y. Filed Aug. 3, 1920.

FROSTELENE

Particular description of goods.—Fireproof Fabrics for Lamp-Shades.

Claims use since Aug. 1, 1919.

Ser. No. 135,801. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) BERISTAIN Y CIA., Barcelona, Spain. Filed Aug. 5, 1920.

Búfalo

Particular description of goods.—Automatic Pistols, Revolvers, Shotguns, and Autoloading Shotguns.

Claims use since Apr. 1, 1914.

Ser. No. 135,802. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) BERISTAIN Y CIA., Barcelona, Spain. Filed Aug. 5, 1920.



Particular description of goods.—Automatic Pistols, Revolvers, Shotguns, and Autoloading Shotguns.

Claims use since Apr. 1, 1914.

Ser. No. 135,823. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PRESTOY MFG. CO., Bridgeport, Conn. Filed Aug. 5, 1920.

PRESTOY

Particular description of goods.—House-Tables, House Chairs and Desks.

Claims use since Aug. 2, 1920.

Ser. No. 135,840. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Aug. 6, 1920.

Wholesome



No claim is made to the exclusive use of the word "Wholesome" apart from the mark shown.

Particular description of goods.—Canned Apples, Canned Apricots, Canned Blackberries, Canned Cherries, Canned Gooseberries, Canned Grapes, Canned Peaches, Canned Pears, Canned Plums, Canned Loganberries, Canned Squash, and Canned Pumpkins.

Claims use since 1916.

Ser. No. 135,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NAAMLOOZE VENNOOTSCHAP OLIEFABRIEKEN INSULINDE, Amsterdam, Netherlands. Filed Aug. 7, 1920.



The words "Trade Mark" appearing on the drawing are disclaimed apart from the mark shown.

Particular description of goods.—Oils Used in Treating Textile Fabrics.

Claims use since May 1, 1919.

Ser. No. 136,170. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Aug. 16, 1920.

"DIAMOND EDGE IS A QUALITY PLEDGE"

Particular description of goods.—Hand-Drills, Saw-Sets, Mechanical Razor-Strops, Hoof-Parers, Expansive Bits, Ship-Car Bits, Axes, Adzes, Hatchets, Hammers, Wedges, Mallets, Chisels, Gouges, Carpenters' Slicks, Drawing-Knives, Screwdriver-Bits, Boring-Bits, Drill-Bits, Gimlet-Bits, Gimlets, Countersinks, Auger-Bits, Augers, Bit-Braces, Bit Extensions, Screwdrivers, Planes, Plane Parts, Floor-Scrapers, Cabinet-Scrapers, Miter-Boxes, Miter-Box Parts, Saws, Saw-Blades, Saw-Frames, Saw-Tooth Sets, Saw-Jointers, Saw-Clamps; Saw-Tools—viz., Setting Blocks and Holders for Use in Sharpening and Setting Saws; Reamers, Files, Rasps, File-Cleaners, Mattocks, Hoes, Picks, Putty-Knives, Tool-Handles, Wall-Scrapers, Farm-Implement Handles, Spade-Handles, Snips, Spades, Scoops, Drain-Cleaning Shovels, Posthole-Diggers, Post-hole-Augers, Garden-Trowels, Bricklayers' Trowels, Cement-Workers' Trowels, Plasterers' Trowels, Cement-Groovers, Automobile-Tool Sets, Automobile-Tools in Rolls, Automobile-Tool Kits, Nail-Pullers, Nippers, Box-Hooks, Pinch-Bars, Box-Openers, Cotton-Hooks, Pliers, Pincers, Staple-Pullers, Linemen's Climbers, Awl-Handles, Punch-Tubes, Rivet-Sets, Nail-Sets, Wrenches, Wrench Parts, Vises, Lawn-Mowers, Lawn-Mower Parts, Grass-Catchers, Garden-Cultivators, Lawn-Rakes, Header-Forks, Hay-Forks, Barley-Forks, Manure-Forks, Mill and Street Forks, Hand Stone-Drags, Manure-Hooks, Potato-Hooks, Spading-Forks, Coal and Coke Forks, Baling-Press Forks, Stone-Forks, Cotton-Seed Forks, Potato-Forks, Gardeners' Forks, Barn-Forks, Horse-Clippers, File SkateSharpeners, Lawn-Weeder Knives, Tree-Pruners, Beet-Topping Knives, Bush-Hooks, Fish-Knives, Cotton-Sampling Knives, Table-Knives of Base Metal, Grass-Hooks, Scythes, Hand-Shears of All Kinds, Farriers' Knives, Glass-Cutters, Ice-Picks, Hay-Hooks, Hedge-Shears, Hedge-Trimmers, Hedge-Knives, Corn-Knives, Cane-Knives, Bread-Knives, Chip-Carving Knives, Asparagus-Knives, Spatulas, Ice-Chisels, Household Food-Cutters, Household Food-Cutter Parts, Lamb-Splitters, Cleavers, Butchers' Choppers, Kitchen-Choppers, Pocket-Knives, Plasterers' Hawks, Table-Forks of Base Metal, Grass-Shears, Pruning-Shears, Paring-Knives, Grapefruit-Knives, Broom-Corn Knives, Sloyd-Knives, Utility-Knives, Pruning-Knives, Budding-Knives, Hunting-Knives, Scissors, Razors, Butcher-Knives, Carvers, Sharpening-Steels, Bricklayers' and Masons' Jointers and Beaders, Belt-Punches, Machine-Punches, Center-Punches, Prick-Punches, Leather-Punches, Scratch-Awls, Sheet-Metal Punches, Garden-Rakes, Tool-Grinders, Gravel-Rakes, Hand Hay-Rakes, Road-Rakes, Fetlock-Clippers, Mounted Grindstones and Parts Thereof, Boring-Countersinks, Skinning-Knives, Knife-Edge Can-Openers, Mincing-Knives, Ticket-Punches, Toilet-Clippers, Horse-Clippers, Wad-Cutters.

Claims use since 1903.

Ser. No. 136,184. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FREDERICK BURGENER, Olney, Ill. Filed Aug. 17, 1920.



FURNITURE POLISH
FREDERICK BURGENER
OLNEY ILL

"Furniture Polish" and "Olney, Illinois," being disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Furniture-Polish.

Claims use since July 1, 1920.

Ser. No. 136,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CECIL T. DUNCAN, Quincy, Mass. Filed Aug. 20, 1920.

OAK-KNOLL

Particular description of goods.—Tooth-Paste, Tooth-Powder, Hand and Face Lotion, Rouge, Vanishing Cream, Cold-Cream, Massage-Cream, Talcum Powder, Eye-Water, Hair-Tonic, Hair-Shampoo, Nail-Bleach, Cough-Balsam, Dyspepsia Medicine in Pill and Liquid Form, Laxatives, Cod-Liver-Oil Emulsion, Stomach-Bitters, Kidney-Plaster, Laxative Salts, Liquid Germicide, Catarrh-Balm in Paste Form, Salves and Ointments for Pimples, Ringworm, Tetter, Eruptions, Blackheads, Irritation, Skin-Humors, Scald-Head, Nettle-Rash, Itch, Burns, Boils, Carbuncles, Poison-Ivy, Felons, and Eczema.

Claims use since June 18, 1920.

Ser. No. 136,447. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VEDO MEDICINE COMPANY, Canton, Ohio. Filed Aug. 24, 1920.



The lining on the drawing is intended merely to represent shading.

Particular description of goods.—Tonic and Appetizer for Influenza, Indigestion, Loss of Appetite, Consumption, Stomach Trouble, and Colds.

Claims use since Aug. 10, 1920.

Ser. No. 136,480. (CLASS 17. TOBACCO PRODUCTS.) PAN-AMERICAN CIGAR MANUFACTURING CO., Dover, Del., and Washington, D. C. Filed Aug. 25, 1920.

FUTURE

Particular description of goods.—Cigars.

Claims use since June 17, 1920.

Ser. No. 136,483. (CLASS 25. LOCKS AND SAFES.) C. A. NASH & SON, INC., Norfolk, Va. Filed Aug. 25, 1920.

First Settlers

Particular description of goods.—Locks and Latches.

Claims use since March, 1919.

Ser. No. 136,489. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHARLES H. ROBBINS, Philadelphia, Pa. Filed Aug. 25, 1920.



The lining expressing the color red.

Particular description of goods.—Blue and Brown Print Papers and Cloths; Drawing Instruments Consisting of Compasses, Dividers, Bow-Pens, Bow-Pencils, Ruling-Pens, Straight-Line Pens, Squares, and Triangles, and Engineering Instruments Consisting of Transits, Levels, Alidades, Range-Poles, and Level-Rods.

Claims use since about December, 1917.

Ser. No. 136,550. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ALBERT H. FRANKEL, New York, N. Y. Filed Aug. 27, 1920.

GAMBRINUS

Particular description of goods.—Malt-Syrup for Making Malt Beverages.

Claims use since May 15, 1920.

Ser. No. 136,576. (CLASS 39. CLOTHING.) WOODHULL, GOODALE & BULL INC., Syracuse, N. Y. Filed Aug. 27, 1920.

TWILWEAR

Particular description of goods.—Men's and Young Men's Suits, Trousers, and Overcoats.

Claims use since July 1, 1920.

Ser. No. 136,706. (CLASS 39. CLOTHING.) HALL, HARTWELL & CO., Troy, N. Y. Filed Sept. 1, 1920.



Particular description of goods.—Men's and Boys' Union-Suits, Undershirts, and Underdrawers.

Claims use since about June 21, 1919.

Ser. No. 136,735. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLACKSTONE MANUFACTURING CO., Newark, N. J. Filed Sept. 2, 1920.

TRUTH



Particular description of goods.—Cough-Syrup, Witch-Hazel, Camphorated Oil, Pure Glycerin.

Claims use since about June 1, 1917.

Ser. No. 137,043. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEAMANS & COBB COMPANY, Augusta, Me., and Boston, Mass. Filed Sept. 10, 1920.

SEACO

Consisting of the word "Seaco."

Particular description of goods.—Piece Goods of Cotton, Wool, Silk, or Linen and Mixtures of Cotton and Silk or Silk and Wool for Wearing-Apparel, Upholstery, and General Mechanical Purposes.

Claims use since Nov. 14, 1914.

Ser. No. 137,135. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) H. MARUI & CO., New York, N. Y. Filed Sept. 13, 1920.



Particular description of goods.—Metal-Leaf.

Claims use since June 1, 1919.

Ser. No. 137,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL ZECHNOWITZ, New York, N. Y. Filed Sept. 14, 1920.

WHITE DAISY

Particular description of goods.—Tea.
Claims use since July 1, 1919.

Ser. No. 137,392. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE SEAMLESS RUBBER COMPANY, INC., New Haven, Conn. Filed Sept. 20, 1920. Under ten-year proviso.

Seamless

Particular description of goods.—Rubber Hot-Water Bags or Bottles.
Claims use since 1877.

Ser. No. 137,538. (CLASS 2. RECEPTACLES.) NORTH ST. PAUL CASKET COMPANY, North St. Paul, Minn. Filed Sept. 23, 1920.

Comline

Particular description of goods.—Caskets and Coffins.
Claims use since September, 1919.

Ser. No. 137,829. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) A. L. HANSEN MFG. CO., Chicago, Ill. Filed Oct. 2, 1920.

DRYLITE

Particular description of goods.—Acetylene-Lamps.
Claims use since Sept. 8, 1920.

Ser. No. 137,953. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIOLA B. MULLINS, Jacksonville, Fla. Filed Oct. 5, 1920.

Vyola

Particular description of goods.—A Preparation for Promoting the Growth of the Hair and to Relieve Dandruff, Itching Scalp, Failing Hair; a Preparation for Oiling the Hair and to Aid in Pressing and Pinching the Hair, Oil for Massaging the Temples, Shampoos, and a Hair-Tonic.
Claims use since Jan. 1, 1920.

Ser. No. 138,072. (CLASS 39. CLOTHING.) NELS P. TURNBLADH, Duluth, Minn. Filed Oct. 7, 1920.

Gopher

Particular description of goods.—Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Jan. 1, 1912.

Ser. No. 138,086. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DEVOE & RAYNOLDS CO. INC., New York, N. Y. Filed Oct. 8, 1920.

VELOUR

Particular description of goods.—Oil-Paint for Flat Wall-Finish.
Claims use since December, 1919.

Ser. No. 138,143. (CLASS 39. CLOTHING.) JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Oct. 9, 1920. Under ten-year proviso.

TRADE MARK
CLEARNUTRIA
JOHN B STETSON Co
PHILADELPHIA

Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since 1875.

Ser. No. 138,145. (CLASS 39. CLOTHING.) JOHN B STETSON COMPANY, Philadelphia, Pa. Filed Oct. 9, 1920. Under ten-year proviso.

JOHN B. STETSON CO.
MADE OF REAL NUTRIA FUR
PHILADELPHIA

Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since 1894.

Ser. No. 138,146. (CLASS 39. CLOTHING.) JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Oct. 9, 1920. Under ten-year proviso.

JOHN B. STETSON CO
PHILADA
3X BEAVER

Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since January, 1895.

Ser. No. 138,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. J. VAN HOUTEN & ZOON, Weesp, Netherlands, and Chicago, Ill. Filed Oct. 9, 1920.

NOOZ

Particular description of goods.—Cocoa.
Claims use since Sept. 9, 1920.

Ser. No. 138,177. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JOHN MOHN, Detroit, Mich. Filed Oct. 11, 1920.

Blue Bird



Particular description of goods.—Malt-Syrup to be Used in the Manufacture of Malt Beverages.
Claims use since Oct. 4, 1920.

Ser. No. 138,192. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) UNITED STATES GUTTA PERCHA PAINT COMPANY, Saco, Me., and Providence, R. I. Filed Oct. 11, 1920.

Sunlight

Consists of the word "Sunlight."
Particular description of goods.—Ready-Mixed Paints.
Claims use since Sept. 15, 1914.

Ser. No. 138,193. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) UNITED STATES GUTTA PERCHA PAINT COMPANY, Saco, Me., and Providence, R. I. Filed Oct. 11, 1920.

Barreled Sunlight

Consists of the words "Barreled Sunlight."
Particular description of goods.—Ready-Mixed Paints.
Claims use since Sept. 15, 1914.

Ser. No. 138,381. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GIDDINGS & LEWIS MACHINE TOOL COMPANY, Fond du Lac, Wis. Filed Oct. 16, 1920.

G&L

Particular description of goods.—Metal Working, Boring, Drilling, and Milling Machines.
Claims use since May 1, 1920.

Ser. No. 138,401. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOSEPH NACOL, Eunice, La. Filed Oct. 16, 1920.

NACOL



The pictorial feature of the mark shown in the drawing is a portrait of the applicant.
Particular description of goods.—A Paint and Varnish Remover.
Claims use since about May 1, 1920.

Ser. No. 138,420. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH, HOWLAND & CO., INCORPORATED, Boston, Mass. Filed Oct. 16, 1920.

CIRCLEWHITE

Particular description of goods.—Liquid Paint for Interior Finish.
Claims use since 1918.

Ser. No. 138,466. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Oct. 19, 1920.

One-Eleven
111

Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since about July 23, 1920.

Ser. No. 138,527. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Oct. 20, 1920.

LINAZOL

Particular description of goods.—Linseed-Oil Substitute.
Claims use since Aug. 19, 1920.

Ser. No. 138,618. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET COMPANY, Detroit, Mich. Filed Oct. 21, 1920.

BLACKFLEX

Particular description of goods.—Corsets and Brassières.
Claims use since Apr. 1, 1920.

Ser. No. 138,652. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. W. RYCROFT & CO., New York, N. Y. Filed Oct. 21, 1920.



The trade-mark consists of a nickel-plated plate attached to and covering the end of the board around which the goods are rolled. This is generally arranged as shown in the accompanying drawing of the facsimile, in which A is a roll of goods, B the board around which the goods are rolled, and C the nickel plate secured to the end of the board. No claims are asserted to the exclusive use as a trade-mark of the representation of a roll of goods apart from the mark as shown in the drawing.
Particular description of goods.—Silk-Warp Henriettas, Silk and Wool Black Dress Goods, All-Wool and Union Cashmeres in the Piece.
Claims use since Apr. 30, 1886.

Ser. No. 138,925. (CLASS 39. CLOTHING.) RIALTO SHOE CO., Lynn, Mass. Filed Oct. 28, 1920.



Particular description of goods.—Women's Shoes, Pumps, and Slippers Made Wholly or in Part of Leather and Cloth.
Claims use since Mar. 1, 1919.

Ser. No. 138,952. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MERMAID DISH WASHER COMPANY, Middletown, Conn. Filed Oct. 29, 1920.



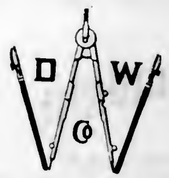
Particular description of goods.—Electric Dish-Washing Machines and Parts Thereof.
Claims use since Dec. 1, 1919.

Ser. No. 138,963. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCRANTON DISTRIBUTING AND MANUFACTURING COMPANY, Scranton, Pa. Filed Oct. 29, 1920.

PELA
PELVATONE

Particular description of goods.—A General Tonic, Laxative, and Diuretic for Stomach Troubles.
Claims use since about Aug. 5, 1920.

Ser. No. 138,981. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DAVID WHITE CO., INC., Milwaukee, Wis. Filed Oct. 30, 1920.



Particular description of goods.—Drawing and Surveying Instruments, Consisting of Draftsmen's Compasses, Dividers, Ruling-Pens, Bow-Pens, Bow-Pencils, Bow-Spacers, Protractors, Rules, and Slide-Rules; Drawing-Set Accessories Consisting of Attachments for Instruments Before Listed; Surveyors' Levels, Transits, Compasses; Masons' Levels, Mechanics' Levels, Gravity-Levels; Builders' and Engineers' Levels, Transits, Leveling-Rods, Leveling-Poles, Arrows, Chains, and Tapes; Miners' Dip-Needles, Mining-Transits, Mountain-Transits, Hook-Sight Compasses, Abney Levels, Inclinometers; Tripods for Levels, Transits, and Compasses; Plumb-Bobs, and Spirit-Levels.
Claims use since June, 1920.

Ser. No. 138,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. MARTIN GORDON, Chicago, Ill. Filed Oct. 30, 1920.



Princess
Pat

Particular description of goods.—Perfumes, Toilet Water, Face-Powders, Talcum Powder, Face-Creams, Rouges, Sachet-Powders, Lip-Sticks, Eyebrow-Pencils, Hair-Tonics, Scalp-Ointments, Shampoos, Eyebrow-Growers, Liquid Face-Powders, Nail-Polishes, Cuticle-Remover, Nail-Bleaches, Cuticle-Salves, Hand-Lotions, Deodorizers, Depilatories, and Bath-Salts.
Claims use since July 1, 1919.

Ser. No. 139,151. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DELSON CHEMICAL CO., INC., Brooklyn, N. Y. Filed Nov. 4, 1920.

SULFMINOL



Particular description of goods.—Medicinal Preparation for the Treatment for General and Chronic Constipation.
Claims use since Dec. 1, 1919.

Ser. No. 139,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DELSON CHEMICAL CO., INC., Brooklyn, N. Y. Filed Nov. 4, 1920.

DELTUSSO



Particular description of goods.—Pharmaceutical Preparations for Treatment of Throat, Lung, and Intestinal Diseases.
Claims use since Dec. 1, 1919.

Ser. No. 139,297. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) VICTOR NEUSTADTL, New York, N. Y. Filed Nov. 6, 1920.



Particular description of goods.—Malt Beverages, Cereal Beverages, Malt Extracts, and Malt Tonics.
Claims use since about Jan. 1, 1904.

Ser. No. 139,532. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 11, 1920.



Particular description of goods.—Finished Marble, Marble Cut to Size, and Cut Stone.
Claims use since Mar. 1, 1920.

Ser. No. 139,638. (CLASS 39. CLOTHING.) ROSE E. TYSON, New York, N. Y.; Magnolia, Mass., and Palm Beach, Fla. Filed Nov. 13, 1920.

Tyson

The trade-mark is the facsimile signature of Rose E. Tyson, the applicant.
Particular description of goods.—Gowns, Sport-Suits, Blouses, Overblouses, Skirts, Sweaters, Wraps, Capes, Coats, Women's and Children's Hats, Bathing-Suits and Stockings.
Claims use since Feb. 13, 1919.

Ser. No. 139,648. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BRE MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 13, 1920.



Applicant makes no claim to the word "Hygienic" and the words "Seal of Quality" apart from the mark in the drawing.
Particular description of goods.—Bathroom-Fittings Consisting of Bathtubs, Bowls, Hoppers, Seats, and Hinge Connections and Reinforcement-Plates Therefor, and Tanks and Ball-Cocks and Operating-Levers Therefor.
Claims use since Aug. 1, 1914.

Ser. No. 139,720. (CLASS 39. CLOTHING.) GENEVIEVE PFEFFER, San Jose, Calif. Filed Nov. 16, 1920.

Gene George

Consisting of the term "Gene George" written in the distinctive manner shown in the drawing.

Particular description of goods.—Dresses, Suits, Pants, Rompers, Capes, Blouses, Middies, Aprons, and Hats for Women and Children.

Claims use since Sept. 7, 1920.

Ser. No. 139,808. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Nov. 18, 1920.

Kookoon Kween

Particular description of goods.—Silk Piece Goods.

Claims use since September, 1920.

Ser. No. 139,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNGERER & COMPANY, INC., New York, N. Y. Filed Nov. 18, 1920.

HYPERESSENCE

Particular description of goods.—Natural Oil of Flowers, Leaves, Roots, Stems, and Gums Used for Scenting Purposes.

Claims use since July 26, 1912.

Ser. No. 139,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. M. COSBY FLOUR & GRAIN CO., Birmingham, Ala. Filed Nov. 19, 1920.

JAZZ

Particular description of goods.—Chicken Feed, Dairy Feed, Laying-Mash, Growing-Mash, Horse Feed, and Hog Feed.

Claims use since Nov. 15, 1920.

Ser. No. 139,879. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLEVELAND FLUX COMPANY, Cleveland, Ohio. Filed Nov. 20, 1920.

FAMOUS CORNELL FLUXES

No claim is made to the words "Famous" and "Fluxes" apart from the mark shown on the drawing.

Particular description of goods.—Mineral Fluxes.

Claims use since Oct. 13, 1920.

Ser. No. 139,910. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. M. RICHTER SONS CO., Manitowoc, Wis. Filed Nov. 20, 1920.

ARSCO

As shown in the drawing, the ground of the diamond is lined to indicate red.

Particular description of goods.—Vinegar.

Claims use since on or about Oct. 15, 1920.

Ser. No. 139,922. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE AMERICAN INDIAN FILM CO., Denver, Colo. Filed Nov. 22, 1920.



RED-MAN

Particular description of goods.—Motion-Picture Films.

Claims use since on or about June 1, 1920.

Ser. No. 139,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEINRICH CHEMICAL COMPANY, Minneapolis, Minn. Filed Nov. 22, 1920.

DEDO

Particular description of goods. — Perfumes, Toilet Waters, Toilet Creams, Tissue-Tonics, Face-Powders, Talcum Powders, and Shampoos.

Claims use since Nov. 6, 1920.

Ser. No. 139,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LECIAN'S, Paducah, Ky. Filed Nov. 22, 1920.

Till Lecian

The name appearing on the drawing is the facsimile signature of the applicant.

Particular description of goods. — Hair-Pomade and Treating-Oil.

Claims use since Dec. 15, 1919.

Ser. No. 140,011. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BARR & STROUD, LIMITED, Anniesland, Glasgow, Scotland. Filed Nov. 23, 1920.



Particular description of goods. — Range-Finders or Telemeters, Range-Keepers, Range-Indicators, Height-Finders, Position-Finders, Artificial Horizons, Deflection-Indicators, Sighting Appliances, Optical Adjusters, Periscopes, Prismatic and Galilean Binoculars, Sextants, Indicators for Use in Signaling, Kinematograph-Projectors, and Parts of Such Appliances.

Claims use since June 1, 1920.

Ser. No. 140,184. (CLASS 39. CLOTHING.) KYLE-GETTYS COMPANY, Knoxville, Tenn. Filed Nov. 26, 1920.

KYLE-MILLS

K-M

Particular description of goods.—Hosiery, Underwear of Knitted Fabric and One, Two, and Three Piece Garments for Men, Women, and Children, and Sweaters.

Claims use since 1912.

Ser. No. 140,346. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PROGRESS ROLLER COMPANY, Omaha, Nebr. Filed Nov. 27, 1920.



No claim being made to the representation of the roller and the words "All Season" apart from the mark shown.

Particular description of goods.—Rubber Rollers for All Inking-Presses.

Claims use since Oct. 18, 1920.

Ser. No. 140,678. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Dec. 6, 1920.

ARCH FORM

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.

Claims use since Feb. 14, 1918.

Ser. No. 140,704. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN DISPLAY COMPANY, Dayton, Ohio. Filed Dec. 7, 1920.

Wind-Clutch

Particular description of goods.—Transmissions Actuated by Air-Currents for Propelling Mechanical Window-Display and other Advertising Apparatus.

Claims use since on or about Nov. 1, 1919.

Ser. No. 140,782. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France. Filed Dec. 8, 1920.

DMC

Particular description of goods.—Ribbons, Laces, Tulles, and Woven Fabrics in the Piece.

Claims use since about 1841.

Ser. No. 140,787. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France. Filed Dec. 8, 1920.

DMC

Particular description of goods.—Ribbons, Laces, Tulles, and Woven Fabrics in the Piece.

Claims use since about 1841.

Ser. No. 140,804. (CLASS 37. PAPER AND STATIONERY.) REHM AND POOLE, New York, N. Y. Filed Dec. 8, 1920.

MONLOK

Particular description of goods.—Bank-Checks.

Claims use since Nov. 1, 1920.

Ser. No. 140,863. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. G. CORNWELL & SON, Washington, D. C. Filed Dec. 10, 1920.

Sunday Paper

Particular description of goods.—Candles.

Claims use since May 28, 1920.

Ser. No. 140,900. (CLASS 39. CLOTHING.) PENNINGTON-CROWELL SHOE COMPANY, Manchester, N. H. Filed Dec. 10, 1920.

Pennington

Particular description of goods.—Boots and Shoes of Leather or Leather and Rubber in Combination.
Claims use since Feb. 1, 1920.

Ser. No. 140,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BATES & ABBOTT, Boston, Mass. Filed Dec. 13, 1920.

ARCTIC

Particular description of goods.—Table-Salt.
Claims use since Dec. 3, 1920.

Ser. No. 140,991. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN DEE, Rock Island, Ill. Filed Dec. 13, 1920.

UNIVERSAL.

Particular description of goods.—Machines, More Particularly Connecting-Rod Aligners.
Claims use since about July 1, 1920.

Ser. No. 141,003. (CLASS 39. CLOTHING.) LIPSON & ADELSON, New York, N. Y. Filed Dec. 13, 1920.

Peggy Paige Petite

Particular description of goods.—Ladies', Misses', and Children's Dresses, Waists, Coats, Suits, and Skirts.
Claims use since Nov. 24, 1920.

Ser. No. 141,006. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHIGAN CHEMICAL COMPANY, Essexville, Mich. Filed Dec. 13, 1920.

"AKSEL"

Particular description of goods.—Compounds for Use in the Vulcanization of Rubber.
Claims use since Nov. 13, 1920.

Ser. No. 141,026. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEORGE C. RICHARDS, Chicago, Ill. Filed Dec. 13, 1920.

HEMCO

Particular description of goods.—Plug Cut-Outs, Electric-Light Sockets, and Attachment-Plugs.
Claims use since about July 1, 1919.

Ser. No. 141,086. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED MEDICO-CHEMI HOSPITAL, INC., Richmond, Va. Filed Dec. 14, 1920.

SANUX

Particular description of goods.—A Tonic Compound for Treating Indigestion, Dyspepsia, Constipation, Torpid Liver, Nervousness, and General Debility.
Claims use since April, 1917.

Ser. No. 141,144. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass. Filed Dec. 15, 1920. Under ten-year proviso.

CARD

Particular description of goods.—Screw-Chasers, Clamp-Collars for Spring Screw-Threading Dies, Collets and Guides for Screw-Plates, Threading-Dies, Threading-Die Holders, Reamers, Screw-Plates, Screw-Plate Stocks, Tap-Wrenches, Tap-Wrench Jaws, and Threading-Taps.
Claims use since 1874.

Ser. No. 141,165. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AGNES M. FRANCO, Philadelphia, Pa. Filed Dec. 16, 1920.



Particular description of goods.—Facial Masks or Packs.
Claims use since Sept. 1, 1920.

Ser. No. 141,204. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHANIA ARIO, Brooklyn, N. Y. Filed Dec. 17, 1920.

ARIOL

Particular description of goods.—A Preparation for the Treatment of Lumbago and Rheumatism.
Claims use since May, 1919.

Ser. No. 141,240. (CLASS 39. CLOTHING.) W. H. ROGERS CO., Chicago, Ill. Filed Dec. 17, 1920.



The representation of the goods and the words "Flat Fit Front" are disclaimed except in conjunction with the mark as shown.
Particular description of goods.—Ladies' Ready-to-Wear Petticoats, Skirts, and Bloomers.
Claims use since Aug. 1, 1920.

Ser. No. 141,267. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES KING HUSTON, McKinney, Ky. Filed Dec. 18, 1920.

J. K. Huston

The mark being in the characteristic handwriting of the applicant.
Particular description of goods.—A Liniment Used in the Treatment of Burns, Sprains, Sores, Headache, and Toothache.
Claims use since Oct. 1, 1920.

Ser. No. 141,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICHOLAS RIPPENBEIN, New York, N. Y. Filed Dec. 18, 1920.

KLIX

Consisting of the word "Klix."
Particular description of goods.—A Digestive Medicine.
Claims use since Dec. 11, 1920.

Ser. No. 141,304. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOWARD SPECIALTIES COMPANY, INC., New York, N. Y. Filed Dec. 20, 1920.

Sharpen-M-All

Consists of the hyphenated word "Sharpen-M-All."
Particular description of goods.—Mechanical Razor-Stroppers.
Claims use since January, 1917.

Ser. No. 141,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERBOLINE COMPANY, Los Angeles, Calif. Filed Dec. 20, 1920.

HERBOLINE

Particular description of goods.—A Salve for Piles.
Claims use since Dec. 15, 1918.

Ser. No. 141,326. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEO. PECA, Chicago, Ill. Filed Dec. 20, 1920.

PECA

Particular description of goods.—A Liniment for the Treatment of Rheumatism.
Claims use since Nov. 29, 1920.

Ser. No. 141,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAABE & BOWMAN, Philadelphia, Pa. Filed Dec. 20, 1920.



Particular description of goods.—Cathartics and Purgatives.
Claims use since Aug. 2, 1920.

Ser. No. 141,331. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSA SCHOENHOLZ, San Francisco, Calif. Filed Dec. 20, 1920.

Bellewood

Particular description of goods.—Hair-Remover and Face-Cleanser.
Claims use since January, 1920.

Ser. No. 141,337. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DAVID TEITELBAUM, New York, N. Y. Filed Dec. 20, 1920.

BON-TON

Particular description of goods.—Hair-Nets.
Claims use since July 1, 1920.

Ser. No. 141,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT M. ABRAMS, Boise, Idaho. Filed Dec. 21, 1920.

Twilight Sleep

Particular description of goods.—An Anesthetic for Use in Dentistry.
Claims use since May, 1920.

Ser. No. 141,347. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AJAX ELECTRO-THERMIC CORPORATION, Trenton, N. J. Filed Dec. 21, 1920.



Particular description of goods.—High-Frequency Electric Furnaces and Parts Thereof and Their Associated Switchboards, Condensers, and Discharge-Gaps.
Claims use since about Nov. 1, 1920.

Ser. No. 141,352. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSAK MANUFACTURING CO., Scranton, Pa. Filed Dec. 21, 1920.

HORKINO

Particular description of goods.—A Reconstructive Tonic.
Claims use since Dec. 1, 1920.

Ser. No. 141,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CUR-ZON COMPANY, Los Angeles, Calif. Filed Dec. 21, 1920.

CUR-ZON

Particular description of goods.—Preparations for Relieving Irritation, Inflammation, or Diseases of the Skin or Membrane, Sore Throat, Sunburn, Cold-Sores, Chapped Hands, Hay-Fever, Bruises, Insect-Bites, and Piles.
Claims use since Sept. 21, 1920.

Ser. No. 141,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN AUGUST DE BACK, San Francisco, Calif. Filed Dec. 21, 1920.

VISTA DEL RIO

Particular description of goods.—Fresh Pears.
Claims use since Mar. 15, 1920.

Ser. No. 141,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD A. HISS, Cleveland, Ohio. Filed Dec. 21, 1920.

Candilax
THE VIOLET LAXATIVE

No claim being made to the words "The Violet Laxative" apart from the mark shown.
Particular description of goods.—A Laxative and Medicinal Preparation.
Claims use since January, 1908.

Ser. No. 141,378. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KAHLENBERG BROS. CO., Two Rivers, Wis. Filed Dec. 21, 1920.

Kahlenberg

Particular description of goods.—Crude-Oil Engines.
Claims use since June 16, 1900.

Ser. No. 141,389. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PENNSYLVANIA PUMP & COMPRESSOR CO., Easton, Pa. Filed Dec. 21, 1920.

PPC

Particular description of goods.—Compressors and Pumps and Attachments Therefor.
Claims use since Sept. 30, 1920.

Ser. No. 141,390. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES T. ROEBUCK, Newnan, Ga. Filed Dec. 21, 1920.



No claim being made to the words "Liquid Wax" apart from the mark shown.
Particular description of goods.—Liquid Wax for Waxing Sewing-Thread.
Claims use since Nov. 1, 1920.

Ser. No. 141,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REEDLEY CANNING CO., Reedley, Calif. Filed Dec. 21, 1920.

PINE BURR

Particular description of goods.—Canned Fruits.
Claims use since Jan. 4, 1920.

Ser. No. 141,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REEDLEY CANNING CO., Reedley, Calif. Filed Dec. 21, 1920.

LIBERATOR

Particular description of goods.—Canned Fruits.
Claims use since Jan. 4, 1920.

Ser. No. 141,424. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KLAAS KLYN, Sassenheim, Netherlands, and New York, N. Y. Filed Dec. 22, 1920.



The word "Bulbs" and the words "Reg. U. S. Pat. Off." are disclaimed apart from the mark as shown.
Particular description of goods.—The Following Products, Namely: Bulbs, Plants, Seeds for Growing Cannas, Gladioli, Dahlias, Irises, Liliums, Montbretias, Peonies, Spiræa, Hardy Perennials and Alpines, Hyacinths, Tulips, Narcissuses, and Crocuses.
Claims use since Nov. 19, 1920.

Ser. No. 141,456. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY DALTON, Sr., Philadelphia, Pa. Filed Dec. 23, 1920.

BIG-3

Particular description of goods.—Combined Tank and Carbureter for Use with Internal-Combustion Engines.
Claims use since Nov. 1, 1920.

Ser. No. 141,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Dec. 23, 1920.

LA-JEL

Particular description of goods.—Antiseptic Lubricating Jelly.
Claims use since Nov. 20, 1920.

Ser. No. 141,476. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY ZIELINSKI, Cicero, Ill. Filed Dec. 23, 1920.

RESTO

Particular description of goods.—Antiseptic Healing-Salve.
Claims use since Nov. 20, 1920.

Ser. No. 141,480. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHEMICAL UTILITIES COMPANY, Cincinnati, Ohio. Filed Dec. 24, 1920.

"CLOGNO"

Particular description of goods.—A Detergent Consisting of a Cleanser for Removing Obstructions from Drains, Sewer and Waste Pipes, Sinks, Toilets, and Urinals of Every Description.
Claims use since May 14, 1920.

Ser. No. 141,495. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON & SONS MANUFACTURING CHEMISTS LIMITED, London, England. Filed Dec. 24, 1920.

ACTIVOL

Particular description of goods.—Photographic Developers.
Claims use since 1919.

Ser. No. 141,511. (CLASS 39. CLOTHING.) A. V. VICTORIUS & COMPANY, INC., New York, N. Y. Filed Dec. 24, 1920.

FASCINATION

Particular description of goods.—Hosiery.
Claims use since Oct. 19, 1920.

Ser. No. 141,513. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN CAMPBELL & CO., New York, N. Y. Filed Dec. 27, 1920.

LAKON

Consisting of the word "Lakon."
Particular description of goods.—Coal-Tar Dyes.
Claims use since Dec. 20, 1920.

Ser. No. 141,514. (CLASS 12. CONSTRUCTION MATERIALS.) CHENEY & Co., New York, N. Y. Filed Dec. 27, 1920.

FIBERCOTE

Particular description of goods.—Stucco and Stucco Materials.
Claims use since Aug. 25, 1920.

Ser. No. 141,521. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. M. GARRITY & Co., INC., Boston, Mass. Filed Dec. 27, 1920.

EVERWAVE

Particular description of goods.—Hair-Waving Fluids.
Claims use since Sept. 20, 1920.

Ser. No. 141,534. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER SPENCE & SONS, LIMITED, Manchester, England. Filed Dec. 27, 1920.

TI-SUL

Particular description of goods.—Titanium Sulfate.
Claims use since May 3, 1920.

Ser. No. 141,538. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TRACTOR APPLIANCE COMPANY, New Holstein, Wis. Filed Dec. 27, 1920.

TACO

Particular description of goods.—Governors, Tractor-Hitches, and Siphon Air-Washers for Internal-Combustion Engines.
Claims use since Feb. 10, 1920.

Ser. No. 141,636. (CLASS 39. CLOTHING.) SIDNEY KAUFMAN, New York, N. Y. Filed Dec. 29, 1920.

SIL KLAD

Particular description of goods.—Hosiery.
Claims use since July 18, 1920.

Ser. No. 141,637. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LITCHFIELD MANUFACTURING COMPANY, Waterloo, Iowa. Filed Dec. 29, 1920.

THE Litchfield

Particular description of goods.—Manure-Spreaders, Straw-Spreaders, Feed-Grinders, and Manure-Loaders.
Claims use since on or about Jan. 1, 1879.

Ser. No. 141,653. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed Dec. 29, 1920.

TUS-REX

Particular description of goods.—Medicine for Coughs, Colds, and Bronchial Affections.
Claims use since Dec. 10, 1920.

Ser. No. 141,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VOGAN CANDY COMPANY, Portland, Oreg. Filed Dec. 30, 1920.

Vogan's Melloette

Particular description of goods.—Package-Candy.
Claims use since Nov. 10, 1920.

Ser. No. 141,897. (CLASS 39. CLOTHING.) BROOKLYN OVERALL COMPANY, Brooklyn, N. Y. Filed Jan. 6, 1921.



The lining on the drawing is for shading only. The words "Wears Like Samson's Hands" are hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Overalls.
Claims use since Jan. 1, 1919.

Ser. No. 141,916. (CLASS 39. CLOTHING.) I. MILLER AND SONS, INC., Brooklyn, N. Y. Filed Jan. 6, 1921.

MILLER-KYNS

Particular description of goods.—Shoes for Children and Infants Made of Leather, Fabric, and Cloth and Combinations of These Materials.
Claims use since Aug. 25, 1920.

Ser. No. 142,022. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARBURG BROTHERS, INC., New York, N. Y. Filed Jan. 10, 1921.

ALL-IN-ONE

Particular description of goods.—Steel Letter-Die Punches.
Claims use since Dec. 9, 1920.

Ser. No. 142,060. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH ECKSTEIN, INC., New York, N. Y. Filed Jan. 11, 1921.

Kwalitine

Consisting of the word "Kwalitine."
Particular description of goods.—Woolen and Woolen and Silk Piece Goods.
Claims use since Dec. 1, 1920.

Ser. No. 142,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ALLEN SMITH & Co., Knoxville, Tenn. Filed Jan. 11, 1921.

SUM-RIZER



Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since Jan. 20, 1914.

Ser. No. 142,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHAUB & HOWETT, Lancaster, Pa. Filed Jan. 12, 1921.

NO RAD RUST

A Radiator Rust Preventative

"No Rust" and "A Radiator Rust Preventative" are hereby disclaimed.
Particular description of goods.—A Chemical Preparation for Prevention of Rust and Scale upon Water-Cooled and Tractor Radiators and All other Kinds of Iron and Steel Products.
Claims use since Dec. 21, 1920.

Ser. No. 142,186. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VICTOR SHOE MACHINERY COMPANY, Lynn, Mass. Filed Jan. 12, 1921.

VICTOR

Particular description of goods.—Shoe-Sewing Machines, Shoe-Repair Outfits, Shoe-Finishing Machines, Rough-Rounding Machines, Channeling-Machines, Cutter-Grinders, Nailers, Burnishing-Machines, Scouring Wheel-Actuating-Machines, Sanding-Roll-Actuating Machines, Sanding-Wheel-Actuating Machines, and Skiving-Machines.
Claims use since Oct. 1, 1912.

Ser. No. 142,198. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CARTER CARBURETOR COMPANY, St. Louis, Mo. Filed Jan. 13, 1921.

STEDDYHUM

Particular description of goods.—Gaskets of Fibrous Material.
Claims use since Jan. 5, 1921.

Ser. No. 142,245. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRED S. BENNETT, INC., New York, N. Y. Filed Jan. 14, 1921.

Effasbee

Particular description of goods.—Cotton, Drills, Twills in the Piece.
Claims use since June 1, 1920.

Ser. No. 142,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOSTON CONFECTIONERY COMPANY, Cambridge, Mass. Filed Jan. 15, 1921.

CYNTHIA SWEETS

No claim is made to the exclusive use of the word "Sweets" excepting in connection with the other features of the mark shown upon the drawing.
Particular description of goods.—Confectionery—Namely, Chocolates.
Claims use since on or about Jan. 11, 1921.

Ser. No. 142,320. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) VAL BLATZ BREWING COMPANY, Milwaukee, Wis. Filed Jan. 17, 1921.



Particular description of goods.—Non-Alcoholic Near Beer, Beer, and Near Beer Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume; Beer and Near Beer Containing One-Half of One Per Cent. or More of Alcohol, by Volume; Malt Tonic, Malt-Syrup, and Malt Extract.
Claims use since Feb. 17, 1888.

Ser. No. 142,323. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) VAL BLATZ BREWING COMPANY, Milwaukee, Wis. Filed Jan. 17, 1921.



Particular description of goods.—Non-Alcoholic Near Beer, Beer, and Near Beer Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume; Beer and Near Beer Containing One-Half of One Per Cent. or More of Alcohol, by Volume; Malt Tonic, Malt-Syrup, and Malt Extract.
Claims use since Feb. 9, 1895.

Ser. No. 142,412. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE REX-OIL COMPANY, INC., Pittsburgh, Pa. Filed Jan. 18, 1921.



Particular description of goods.—Leather-Restorers and Leather Cleaners, Polishes, and Dressings.
Claims use since Dec. 31, 1918.

Ser. No. 142,459. (CLASS 39. CLOTHING.) AMSTERDAM, BORGOS & ADAMS, New York, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Ladies' Hats and Hat-Frames for Ladies' Hats.
Claims use since Apr. 8, 1919.

Ser. No. 142,475. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MEYER DORFMAN, New York, N. Y. Filed Jan. 20, 1921.

FLORA-KNIT

The word "Knit" is disclaimed when used apart from the mark shown in the drawing.
Particular description of goods.—Jersey-Cloth in the Piece.
Claims use since Dec. 1, 1920.

Ser. No. 142,498. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN B. JONES, Atlantic City, N. J. Filed Jan. 20, 1921.

Nocohol

Particular description of goods.—A Preparation for Application to Molds to Facilitate Separation of the Mold and Cast.
Claims use since Dec. 15, 1920.

Ser. No. 142,508. (CLASS 39. CLOTHING.) THE LERNER WAIST CO., New York, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Ladies' Blouses.
Claims use since about May 1, 1919.

Ser. No. 142,509. (CLASS 39. CLOTHING.) THE LERNER WAIST CO., New York, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Ladies' Waists.
Claims use since about Dec. 1, 1910.

Ser. No. 142,510. (CLASS 39. CLOTHING.) THE LORRAINE STORES CORPORATION, Wilmington, Del., and New York, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Ladies' Blouses.
Claims use since about June 1, 1919.

Ser. No. 142,548. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIDETARO YAMAGUCHI, Arlington, N. J. Filed Jan. 20, 1921.

Askit

Consisting of the word "Askit."
Particular description of goods.—Candy and Cake.
Claims use since Dec. 17, 1920.

Ser. No. 142,577. (CLASS 39. CLOTHING.) BORIS BERNSON, Cambridge, Mass. Filed Jan. 22, 1921.



Particular description of goods.—Men's, Women's, and Children's Coats.
Claims use since Oct. 1, 1919.

Ser. No. 142,583. (CLASS 39. CLOTHING.) BROCKTON MOCCASIN CO., INC., Brockton, Mass. Filed Jan. 22, 1921.



MIC-MAC

The portrait being that of J. Kenneth McQuinn, president of the corporation.
Particular description of goods.—Moccasins.
Claims use since Jan. 1, 1920.

Ser. No. 142,611. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DURWYLLAN CO., Paterson, N. J. Filed Jan. 22, 1921.

WIREBESTOS

Particular description of goods.—Clutch-Facings and Brake-Linings.
Claims use since Nov. 1, 1920.

Ser. No. 142,627. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.

ALL in ONE

Particular description of goods.—Heel-Cushions and Heel-Cushion and Instep Raisers.
Claims use since December, 1915.

Ser. No. 142,628. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.

STEPSOFT

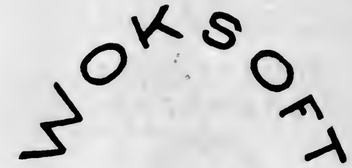
Particular description of goods.—Heel-Cushions.
Claims use since December, 1915.

Ser. No. 142,629. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.

WARMTREAD

Particular description of goods.—Insoles.
Claims use since January, 1916.

Ser. No. 142,630. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.



Particular description of goods.—Cushion-Insoles.
Claims use since January, 1916.

Ser. No. 142,631. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.

FOOT SAVE

Particular description of goods.—Arch and Heel Cushions.
Claims use since December, 1916.

Ser. No. 142,633. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.

Silverite

Particular description of goods.—Lamb's Wool and Sateen Quilted Soles.
Claims use since July, 1919.

Ser. No. 142,634. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921.

"BEST-ON"

Particular description of goods.—Heel-Lining Repairers.
Claims use since Oct. 20, 1920.

Ser. No. 142,660. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921.

CHEVY CHASE

Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 6, 1916.

Ser. No. 142,664. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921.

PRODUCT

Particular description of goods.—Cotton Piece Goods.
Claims use since December, 1915.

Ser. No. 142,808. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. M. ROBINSON COMPANY, Atlanta, Ga. Filed Jan. 26, 1921.

FOUR SEASONS CHAMBRAY



The figure "4." as shown in the trade-mark and as sought to be included in the drawing, is red upon a background of white. The outer circle is black, containing in white letters the words "Seasons Chambray." The expression "Four Seasons Chambray" is disclaimed as follows: No claim is made to expression "Four Seasons Chambray" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since July 1, 1916.

Ser. No. 142,813. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STANDARD FOUR TIRE COMPANY, Keokuk, Iowa. Filed Jan. 26, 1921.

DANDY LINE

No claim is made to exclusive use of the word "Line" apart from the mark as shown.
Particular description of goods.—Pneumatic Rubber Tires for Vehicles and Rubber Inner Tubes for Pneumatic Tires.
Claims use since Jan. 13, 1921.

Ser. No. 142,826. (CLASS 39. CLOTHING.) GEORGE BURKMAN, Omaha, Nebr. Filed Jan. 27, 1921.

TRED-WELL

Particular description of goods.—Shoes Made of Leather.
Claims use since Mar. 16, 1912.

Ser. No. 142,848. (CLASS 39. CLOTHING.) LEONARD & BARROWS, Middleboro and Boston, Mass. Filed Jan. 27, 1921.

OBOY

Particular description of goods.—Leather Boots and Shoes.
Claims use since June 9, 1920.

Ser. No. 142,868. (CLASS 37. PAPER AND STATIONERY.) BRENTANO'S, New York, N. Y. Filed Jan. 28, 1921.



The word "Stationery" is not claimed as a part of the trade-mark.
Particular description of goods.—Mail-Order Sheets.
Claims use since Dec. 3, 1920.

Ser. No. 142,878. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FRANKLIN OPTICAL COMPANY, Indianapolis, Ind. Filed Jan. 28, 1921.

EZYREDE

Particular description of goods.—Reading-Glasses.
Claims use since Jan. 15, 1921.

Ser. No. 142,885. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Jan. 28, 1921.

Samovari

Consisting of the word "Samovari."
Particular description of goods.—Woolen, Cotton, and Linen Fabrics in the Piece and Combinations Thereof.
Claims use since Nov. 1, 1914.

Ser. No. 142,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAPHANOL PRODUCTS COMPANY, Indianapolis, Ind. Filed Jan. 28, 1921.



Particular description of goods.—Germicide and Antiseptic.
Claims use since Oct. 20, 1920.

Ser. No. 142,920. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHICAGO BELTING COMPANY, Chicago, Ill. Filed Jan. 29, 1921.



Particular description of goods.—Leather Belting.
Claims use since 1914.

Ser. No. 142,949. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. J. WHITTALL ASSOCIATES, Worcester, Mass. Filed Jan. 29, 1921. Under ten-year proviso.

WHITTALL'S

Particular description of goods.—Wilton, Brussels, and Plush Rugs and Carpets.
Claims use since 1880.

Ser. No. 143,008. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PARISH & BINGHAM CORPORATION, New York, N. Y., and Cleveland, Ohio. Filed Jan. 31, 1921.



Particular description of goods.—Pressed-Steel Frames for Automobiles, Axle-Housings, Brake-Drums, Torque-Arms, Step-Hangers, and Running-Boards.
Claims use since about Jan. 1, 1909.

Ser. No. 143,009. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ARTHUR L. RUNYAN, Omaha, Nebr. Filed Jan. 31, 1921.

BLOCK-O-TYPE

Particular description of goods.—Educational Devices, Particularly a Machine for Storing and Exhibiting Charactered Checks and for Delivering the Same Selectively.
Claims use since Mar. 5, 1919.

Ser. No. 143,147. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VALDOSTA RETORT CO., Valdosta, Ga. Filed Feb. 3, 1921.

VICTORY

Particular description of goods.—Retorts for Distilling Wood.
Claims use since Sept. 1, 1920.

Ser. No. 143,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NESTLÉ'S FOOD COMPANY, INC., New York, N. Y. Filed Feb. 4, 1921.



No claim being made to the words "Malted Milk" except in the association shown.
Particular description of goods.—Malted Milk.
Claims use since 1919.

Ser. No. 143,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NESTLÉ'S FOOD COMPANY, INC., New York, N. Y. Filed Feb. 4, 1921.



No claim being made to the reading-matter appearing on the drawing apart from the word "Nestlé's" except in the association shown.
Particular description of goods.—Condensed Milk.
Claims use since 1895.

Ser. No. 143,180. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NESTLÉ'S FOOD COMPANY, New York, N. Y. Filed Feb. 4, 1921.



No claim being made to the reading-matter appearing on the drawing apart from the word "Nestlé's" except in the association shown.

Particular description of goods.—Sterilized Milk.
Claims use since 1910.

Ser. No. 143,186. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PEARSON PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 4, 1921.

CHEK

Particular description of goods.—Dry Cleaners.
Claims use since Feb. 2, 1921.

Ser. No. 143,284. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MANUFACTURING DEALERS COMPANY, Pittsburg, Kans., and Boston, Mass. Filed Feb. 7, 1921.

Shaving Shuttle

Particular description of goods.—Razors.
Claims use since Jan. 19, 1921.

Ser. No. 143,297. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Feb. 7, 1921.

RACINE MULTI-MILE CORD

No exclusive right to the word "Cord" being claimed except as a part of the whole trade-mark.

Particular description of goods.—Tires Composed of Rubber and Fabric.
Claims use since June 19, 1917.

Ser. No. 143,304. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WHITE HEAT PRODUCTS COMPANY, West Chester, Pa. Filed Feb. 7, 1921.

BATHITE

Particular description of goods.—Abrasive Powder and Abrasive Wheels.
Claims use since about Jan. 13, 1920.

Ser. No. 143,348. (CLASS 37. PAPER AND STATIONERY.) ARTHUR W. CLAPP, Chicago, Ill. Filed Feb. 9, 1921.

SAFETY
BECO
ENVELOPE

No claim is made to the exclusive use of the words "Safety Envelope" apart from the mark shown in the drawing.

Particular description of goods.—Mailing-Envelops.
Claims use since about June, 1918.

Ser. No. 143,574. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STANDARD FOUR TIRE COMPANY, Keokuk, Iowa. Filed Feb. 14, 1921.

GOLDEN ROD

Particular description of goods.—Rubber Tires and Inner Tubes.
Claims use since Feb. 7, 1921.

Ser. No. 143,596. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Feb. 15, 1921.

VIVETTE

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.
Claims use since Dec. 20, 1920.

Ser. No. 143,789. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J., and New York, N. Y. Filed Feb. 18, 1921.

SINGER

Particular description of goods.—Electric Motors and Controllers Therefor.
Claims use since about October, 1915.

Ser. No. 144,021. (CLASS 38. PRINTS AND PUBLICATIONS.) EL COMERCIO PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 25, 1921.

LA INDUSTRIA

Particular description of goods.—A Monthly Publication.
Claims use since Feb. 9, 1921.

Ser. No. 144,051. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 25, 1921.

"BALKA-FUR"

Consists of the word "Balka-Fur." No claim is made to the exclusive use of the word "Fur" except in connection with the mark shown.

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 18, 1921.

Ser. No. 144,073. (CLASS 38. PRINTS AND PUBLICATIONS.) FLEET PHOTO SERVICE, Washington, D. C. Filed Feb. 26, 1921.

FLEET PHOTO SERVICE



No claim being made to the words "Photo Service" apart from the mark shown on the drawing.

Particular description of goods.—Photographic Prints
Claims use since Sept. 1, 1920.

Ser. No. 144,076. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Feb. 26, 1921.

Matyne

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 10, 1921.

Ser. No. 144,077. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Feb. 26, 1921.

Marlaine

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 144,078. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Feb. 26, 1921.

Doucette

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 10, 1921.

Ser. No. 144,229. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. GRAFF COMPANY, Somerville, Mass. Filed Mar. 2, 1921.

GRAFFCO

The word "Graffco."

Particular description of goods.—Pencil-Sharpeners.
Claims use since Mar. 29, 1920.

Ser. No. 144,280. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM DONAHEY, Chicago, Ill. Filed Mar. 3, 1921.

THE
TEENIE WEENIES

Particular description of goods.—Newspaper-Sections.
Claims use since June, 1914.

Ser. No. 144,317. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. FLUEGELMAN & CO., INC., New York, N. Y. Filed Mar. 5, 1921.

Satinized

Particular description of goods.—Cotton and Cotton and Silk Mixture Piece Goods.
Claims use since about November, 1920.

Ser. No. 144,477. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STEHLI SILKS CORPORATION, New York, N. Y. Filed Mar. 8, 1921.

TABBYTAFF

Particular description of goods.—Silks in the Piece.
Claims use since Jan. 26, 1921.

Ser. No. 144,492. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) I. B. WILLIAMS AND SONS, Dover, N. H. Filed Mar. 8, 1921.

SHEDITE

Particular description of goods.—Waterproof, Flat, Oak-Tanned Leather Belting.
Claims use since Jan. 1, 1908.

Ser. No. 144,536. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Mar. 9, 1921.

PAGEANT

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1920.

Ser. No. 144,556. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. ALTMAN & CO., New York, N. Y. Filed Mar. 10, 1921.

Drap De Chamois

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 8, 1921.

Ser. No. 144,613. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 11, 1921.

Silktex

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 144,615. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 11, 1921.

Velmere

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 145,102. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOREST ELECTRIC CO., Newark, N. J. Filed Mar. 23, 1921.

CARBOSTAT

Particular description of goods.—Rheostats.
Claims use since June 11, 1920.

Ser. No. 145,201. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BELDEN MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 25, 1921.

Beldenamel

Particular description of goods.—Magnet-Wires.
Claims use since on or about Jan. 1, 1910.

Ser. No. 145,202. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BELDEN MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 25, 1921.

"Beldenite"

Particular description of goods.—Rubber-Covered Electrical Conductors.
Claims use since on or about Jan. 1, 1910.

Ser. No. 145,209. (CLASS 37. PAPER AND STATIONERY.) SAMUEL A. HARRIS, New York, N. Y. Filed Mar. 25, 1921.

SMOOTH POINT FOUNTAIN NEW YORK  SAFETY PEN U. S. A.

The words "Smooth-Point Safety Fountain Pen, New York, U. S. A.," are hereby disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Fountain-Pens.
Claims use since Apr. 1, 1920.

Ser. No. 145,415. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RENTZ SPARK PLUG COMPANY, Atlanta, Ga. Filed Mar. 29, 1921.

RENTZ

Particular description of goods.—Spark-Plugs.
Claims use since Feb. 24, 1921.

Ser. No. 145,439. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ELECTRIC TACHOMETER CORPORATION, Philadelphia, Pa. Filed Mar. 30, 1921.

ACCURACY Tetco

Applicant disclaims any attempt to cover in the registration the word "Accuracy" apart from the mark as shown in the drawing.
Particular description of goods.—Magneto-Generators, Electric Switches, and Electric Contact Devices.
Claims use since July 31, 1917.

Ser. No. 145,465. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LINCOLN MANUFACTURING COMPANY, Detroit, Mich. Filed Mar. 30, 1921.



Consisting of a representation of the head of Lincoln.
Particular description of goods.—Electric Art-Lighting Fixtures.
Claims use since Jan. 1, 1921.

Ser. No. 145,563. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS GLOSSTEIN, Wilkes-Barre, Pa. Filed Apr. 1, 1921.

Ell Gee

Particular description of goods.—Storage Batteries.
Claims use since Dec. 10, 1920.

Ser. No. 145,826. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) D. P. HARRIS HARDWARE & MANUFACTURING CO., INC., New York, N. Y. Filed Apr. 7, 1921.

ROAMER

Particular description of goods.—Bicycles.
Claims use since about Nov. 1, 1919.

Ser. No. 145,827. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) D. P. HARRIS HARDWARE & MANUFACTURING CO. INC., New York, N. Y. Filed Apr. 7, 1921.

BLUE RIBBON

Particular description of goods.—Bicycles.
Claims use since about Oct. 29, 1919.

Ser. No. 145,915. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RUTENBER ELECTRIC CO., Marion, Ind. Filed Apr. 8, 1921.

Flihlon

Particular description of goods.—Electric Toasters.
Claims use since August, 1916.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 17, 1921.

142,400. GAME CONSISTING OF A PERFORATED GAME-BOARD WITH MOVABLE PLUGS THEREIN. JOSEPH B. ABELE, Philadelphia, Pa.
Filed May 21, 1920. Serial No. 132,716. PUBLISHED DECEMBER 7, 1920.

142,401. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed August 23, 1920. Serial No. 136,348. PUBLISHED FEBRUARY 1, 1921.

142,402. UMBRELLAS. ACME MERCHANDISE CORPORATION, New York, N. Y.
Filed October 7, 1920. Serial No. 138,079. PUBLISHED JANUARY 18, 1921.

142,403. POLISH AND PRESERVATIVE FOR AUTOMOBILES, FURNITURE, AND VARNISHED SURFACES. ACRON POLISH COMPANY, St. Paul, Minn.
Filed August 29, 1919. Serial No. 122,100. PUBLISHED FEBRUARY 1, 1921.

142,404. MEN'S AND WOMEN'S UNDERWEAR OF KNITTED FABRICS OF ONE-PIECE GARMENTS AND OF TWO-PIECE GARMENTS. ADAMS & KAY, New York, N. Y.
Filed April 7, 1920. Serial No. 130,742. PUBLISHED FEBRUARY 1, 1921.

142,405. BAGGAGE-RACKS. THE ADAMS & WESTLAKE COMPANY, Chicago, Ill.
Filed October 21, 1920. Serial No. 138,624. PUBLISHED JANUARY 25, 1921.

142,406. AUTOMOBILE-LOCK. ROBERT E. ADREON, St. Louis, Mo.
Filed June 25, 1920. Serial No. 134,339. PUBLISHED DECEMBER 21, 1920.

142,407. MATCHES. AKTIEBOLAGET FÖRENADE SVENSKA TÄNDSTICKSFABRIKER, Stockholm, Sweden, assignor to Jonkopings & Vulcans Tandsticksfabriks Aktiebolag, Jonkoping, Sweden.
Filed March 14, 1918. Serial No. 109,547. PUBLISHED FEBRUARY 4, 1919.

142,408. REFRIGERATORS. THE ALASKA REFRIGERATOR COMPANY, Muskegon, Mich.
Filed June 12, 1920. Serial No. 133,600. PUBLISHED NOVEMBER 23, 1920.

142,409. TOILET-PAPER. ALBANY PERFORATED WRAPPING PAPER CO., Albany, N. Y.
Filed February 7, 1920. Serial No. 128,066. PUBLISHED FEBRUARY 1, 1921.

142,410. CERTAIN NAMED FOODS. AMERICAN FACTORS, LIMITED, Honolulu, Territory of Hawaii, and San Francisco, Calif.
Filed November 6, 1920. Serial No. 139,242. PUBLISHED JANUARY 25, 1921.

142,411. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass. and Brooklyn, N. Y.
Filed April 24, 1920. Serial No. 131,551. PUBLISHED FEBRUARY 1, 1921.

142,412. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed May 18, 1920. Serial No. 132,583. PUBLISHED JANUARY 25, 1921.

142,413. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed May 18, 1920. Serial No. 132,584. PUBLISHED JANUARY 25, 1921.

142,414. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed May 18, 1920. Serial No. 132,585. PUBLISHED JANUARY 25, 1921.

142,415. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed May 18, 1920. Serial No. 132,587. PUBLISHED JANUARY 25, 1921.

142,416. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed May 18, 1920. Serial No. 132,588. PUBLISHED NOVEMBER 16, 1920.

142,417. MOLASSES AND SYRUPS MADE FROM SUGAR-CANE AND CORN TO BE USED FOR FOOD PURPOSES. THE AMERICAN MOLASSES COMPANY OF NEW YORK, New York, N. Y.
Filed September 13, 1920. Serial No. 137,104. PUBLISHED JANUARY 25, 1921.

142,418. MOLASSES AND SYRUPS MADE FROM SUGAR-CANE AND CORN TO BE USED FOR FOOD PURPOSES. THE AMERICAN MOLASSES COMPANY OF NEW YORK, New York, N. Y.
Filed September 13, 1920. Serial No. 137,109. PUBLISHED JANUARY 25, 1921.

142,419. MOLASSES AND SYRUPS MADE FROM CANE-SUGAR TO BE USED FOR FOOD PURPOSES. THE AMERICAN MOLASSES COMPANY OF NEW YORK, New York, N. Y.
Filed September 13, 1920. Serial No. 137,106. PUBLISHED JANUARY 25, 1921.

142,420. MOLASSES AND SYRUPS MADE FROM SUGAR-CANE AND CORN TO BE USED FOR FOOD PURPOSES. THE AMERICAN MOLASSES COMPANY OF NEW YORK, New York, N. Y.
Filed September 13, 1920. Serial No. 137,108. PUBLISHED JANUARY 25, 1921.

142,421. CERTAIN OPTICAL AND OPHTHALMIC APPLIANCES. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed December 16, 1919. Serial No. 126,091. PUBLISHED FEBRUARY 1, 1921.

142,422. SHAVING-BRUSHES. AMERICAN SAFETEESOAP CORPORATION, (now by change of name Safetee Soap Corporation), Brooklyn, N. Y.
Filed April 17, 1920. Serial No. 131,247. PUBLISHED OCTOBER 19, 1920.

142,423. CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 8, 1919. Serial No. 122,420. PUBLISHED NOVEMBER 30, 1920.

142,424. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 18, 1919. Serial No. 122,809. PUBLISHED SEPTEMBER 28, 1920.

142,425. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 19, 1919. Serial No. 122,875. PUBLISHED SEPTEMBER 28, 1920.

142,426. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 19, 1919. Serial No. 122,877. PUBLISHED DECEMBER 21, 1920.

142,427. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed November 10, 1919. Serial No. 124,707. PUBLISHED OCTOBER 12, 1920.

142,428. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 23, 1919. Serial No. 123,016. PUBLISHED JANUARY 27, 1920.

142,429. CERTAIN MACHINERY AND PARTS THEREOF. AMERICAN TOOL & MACHINE CO., Boston, Mass.
Filed October 27, 1920. Serial No. 138,832. PUBLISHED JANUARY 25, 1921.

142,430. WOMEN'S CORSETS AND GIRDLES. ANDERSON & BARRY, Philadelphia, Pa.
Filed October 6, 1920. Serial No. 137,990. PUBLISHED JANUARY 25, 1921.

142,431. GRAIN-BAGS. ANDROSCOGGIN MILLS, Lewiston, Me.
Filed November 22, 1918. Serial No. 114,283. PUBLISHED FEBRUARY 1, 1921.

142,432. SMOKING-TOBACCO. ARDATH TOBACCO COMPANY, LIMITED, London, England.
Filed March 26, 1920. Serial No. 130,192. PUBLISHED NOVEMBER 23, 1920.

142,433. CIGARETTES MANUFACTURED FROM TURKISH TOBACCO. ARDATH TOBACCO COMPANY, LIMITED, London, England.
Filed March 26, 1920. Serial No. 130,195. PUBLISHED OCTOBER 12, 1920.

142,434. FOOT-PROPELLED LAND-VEHICLES FOR USE BY CHILDREN. ARDEN-BENNETT CORPORATION, New York, N. Y.
Filed April 14, 1920. Serial No. 131,100. PUBLISHED NOVEMBER 16, 1920.

142,435. UNMOUNTED ABRASIVE WHEELS FORMED OF ARTIFICIAL ABRASIVE MATERIAL. E. C. ATKINS & COMPANY, Indianapolis, Ind.
Filed January 23, 1920. Serial No. 127,493. PUBLISHED FEBRUARY 1, 1921.

142,436. BREAD. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed October 23, 1920. Serial No. 138,715. PUBLISHED JANUARY 25, 1921.

142,437. VARIETY OF FERTILIZER WHOSE CONSTITUENTS ARE MINERAL, VEGETABLE, AND ANIMAL MATTER. A. J. AVERELL, Riverside, Calif.
Filed July 13, 1920. Serial No. 134,872. PUBLISHED JANUARY 25, 1921.

142,438. NON-METALLIC ROPES, FIBER CORDS, TWINE, AND BINDER-TWINE. B. F. AVERY & SONS, Louisville, Ky.
Filed January 20, 1920. Serial No. 127,348. PUBLISHED APRIL 13, 1920.

142,439. ADHESIVE CEMENTS. HARRY A. BAGGOT, New York, N. Y.
Filed July 31, 1920. Serial No. 135,632. PUBLISHED JANUARY 25, 1921.

142,440. MEN'S JACKETS, ONE-PIECE OUTER SUITS, AND OVERALLS. LOUIS H. BAKER, Evansville, Ind.
Filed June 19, 1920. Serial No. 133,912. PUBLISHED NOVEMBER 30, 1920.

142,441. LADIES' HOUSE-SLIPPERS OF LEATHER. BAKER SHOE CO., INC., Haverhill, Mass.
Filed October 14, 1920. Serial No. 138,277. PUBLISHED JANUARY 18, 1921.

142,442. GAME APPARATUS CONSISTING OF A BOARD AND GAME-PIECES USED IN CONNECTION THEREWITH. THOMAS RUSSEL BALDWIN, Chicago, Ill.
Filed November 27, 1918. Serial No. 114,392. PUBLISHED JANUARY 13, 1920.

142,443. LINEN THREAD. BARBOUR FLAX SPINNING COMPANY, Paterson, N. J.
Filed October 28, 1920. Serial No. 138,896. PUBLISHED JANUARY 25, 1921.

142,444. CROSSHEADS, CROSSHEAD-SHOES FOR FLUID-OPERATED ENGINES, AND REVERSING-GEAR MECHANISM. BARCO MANUFACTURING COMPANY, Chicago, Ill.
Filed March 26, 1920. Serial No. 130,197. PUBLISHED FEBRUARY 1, 1921.

142,445. COAL AND COKE. DOUGLASS BARNES CORPORATION, New York, N. Y.
Filed August 25, 1920. Serial No. 136,462. PUBLISHED JANUARY 25, 1921.

142,446. CIGARS. CHARLES F. BARTH, INC., Spokane, Wash.
Filed March 15, 1920. Serial No. 129,691. PUBLISHED NOVEMBER 30, 1920.

142,447. CERTAIN MEASURING AND SCIENTIFIC APPLIANCES. ALFRED BAUMANN, Cassel, Germany.
Filed July 28, 1919. Serial No. 120,983. PUBLISHED FEBRUARY 1, 1921.

142,448. OPHTHALMIC LENSES. BAUSCH & LOMB OPTICAL CO., Rochester, N. Y.
Filed August 27, 1920. Serial No. 136,546. PUBLISHED FEBRUARY 1, 1921.

142,449. HATS FOR MEN. F. BERG & CO., Orange, N. J.
Filed October 8, 1920. Serial No. 138,082. PUBLISHED JANUARY 25, 1921.

142,450. METAL FILING-CASES, LOCKERS, AND SHELVING. THE BERGER MANUFACTURING COMPANY, Canton, Ohio.
Filed May 17, 1920. Serial No. 132,503. PUBLISHED NOVEMBER 16, 1920.

142,451. FILTERING APPARATUS AND FILTER-CYLINDERS. BERKEFELD FILTER COMPANY, New York, N. Y.
Filed May 11, 1920. Serial No. 132,295. PUBLISHED JANUARY 25, 1921.

142,452. PAPER FOR WRITING AND PRINTING PURPOSES, ENVELOPS, TABLETS, AND BLANK BOOKS. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed January 15, 1920. Serial No. 127,204. PUBLISHED APRIL 13, 1920.

142,453. TABLE-SYRUP COMPOSED OF CORN AND CANE SUGAR. BLISS SYRUP REFINING CO., Kansas City, Mo.
Filed April 2, 1920. Serial No. 130,512. PUBLISHED AUGUST 24, 1920.

142,454. TRUNKS. THE BLOOMENFIELD TRUNK CO. INC., New York, N. Y.
Filed April 24, 1920. Serial No. 131,561. PUBLISHED DECEMBER 28, 1920.

142,455. HOT-WATER BAGS, COLD-WATER BAGS, AND BAGS FOR ICE-PACKS. RUSSELL J. BOWELL, Elyria, Ohio.
Filed June 1, 1920. Serial No. 133,125. PUBLISHED DECEMBER 7, 1920.

142,456. CEREAL BREAKFAST FOOD. BREAKFAST BROWNIES COMPANY, Helena, Mont., and Minneapolis, Minn.
Filed August 23, 1920. Serial No. 136,355. PUBLISHED JANUARY 25, 1921.

142,457. CEREAL BREAKFAST FOOD. BREAKFAST BROWNIES COMPANY, Helena, Mont., and Minneapolis, Minn.
Filed August 23, 1920. Serial No. 136,356. PUBLISHED JANUARY 25, 1921.

142,458. MEN'S AND BOYS' DRESS, NEGLIGÉE, AND WORK SHIRTS, PAJAMAS, AND NIGHT-SHIRTS. BROOM & NEWMAN, New York, N. Y.
Filed September 27, 1920. Serial No. 137,655. PUBLISHED JANUARY 25, 1921.

142,459. LETTER-DUPLICATING MACHINE. NAT B. BROWNE, Los Angeles, Calif.
Filed June 24, 1920. Serial No. 134,104. PUBLISHED JANUARY 25, 1921.

142,460. PHONOGRAPH-CABINETS AND PARTS THEREOF AND CERTAIN NAMED CASE MATERIAL. REX L. BUELL, Elkhart, Ind.
Filed February 21, 1920. Serial No. 128,724. PUBLISHED JANUARY 18, 1921.

142,461. SERIES OF CARTOONS. EUGENE BYRNES, New York, N. Y.
Filed September 11, 1920. Serial No. 137,065. PUBLISHED FEBRUARY 1, 1921.

142,462. HONEY, STRAINED AND IN THE COMB. CALIFORNIA HONEY PRODUCERS COOPERATIVE EXCHANGE, Los Angeles, Calif.
Filed July 14, 1920. Serial No. 134,941. PUBLISHED JANUARY 18, 1921.

142,463. VARNISH AND PAINT REMOVER. MANUEL CANTAN, Key West, Fla.
Filed August 6, 1920. Serial No. 135,845. PUBLISHED JANUARY 25, 1921.

142,464. NON-ALCOHOLIC, NON-CEREAL BEVERAGE IN THE NATURE OF ROOT-BEER TO BE SOLD AS A SOFT DRINK. CAPITOL BREWERY CO., Jefferson City, Mo.
Filed September 8, 1920. Serial No. 136,935. PUBLISHED FEBRUARY 1, 1921.

142,465. CARD GAME. THE CHAMPION AMUSEMENT COMPANY, Cincinnati, Ohio.
Filed July 12, 1920. Serial No. 134,803. PUBLISHED JANUARY 25, 1921.

142,466. SKINS OF ANIMALS USED IN THE FUR INDUSTRY. C. & E. CHAPAL FRERES & CIE., INC., Brooklyn, N. Y.
Filed October 20, 1920. Serial No. 138,547. PUBLISHED JANUARY 18, 1921.

142,467. SKINS OF ANIMALS USED IN THE FUR INDUSTRY. C. & E. CHAPAL FRERES & CIE., INC., Brooklyn, N. Y.
Filed October 20, 1920. Serial No. 138,551. PUBLISHED JANUARY 18, 1921.

142,468. LEATHER-PRESERVATIVE. CHEMICAL RESEARCH COMPANY OF AMERICA, (now by change of name Korite Products, Inc.), Boston, Mass.
Filed November 27, 1920. Serial No. 140,248. PUBLISHED JANUARY 25, 1921.

142,469. LEATHER-PRESERVATIVE. CHEMICAL RESEARCH COMPANY OF AMERICA, (now by change of name Korite Products, Inc.), Boston, Mass.
Filed November 27, 1920. Serial No. 140,249. PUBLISHED JANUARY 25, 1921.

142,470. COATINGS FOR CRUCIBLES AND LININGS FOR FURNACES. CHESTNUT RIDGE CORPORATION, New York, N. Y.
Filed July 26, 1920. Serial No. 135,405. PUBLISHED FEBRUARY 1, 1921.

142,471. CANNED FISH. CHINOOK PACKING CO., Chinook, Wash.
Filed November 6, 1920. Serial No. 139,248. PUBLISHED JANUARY 25, 1921.

142,472. SMOKING AND CHEWING TOBACCO. CHRISTIAN PEPER TOBACCO CO., St. Louis, Mo.
Filed July 6, 1920. Serial No. 134,564. PUBLISHED JANUARY 25, 1921.

142,473. SMOKING AND CHEWING TOBACCO. CHRISTIAN PEPER TOBACCO CO., St. Louis, Mo.
Filed July 6, 1920. Serial No. 134,565. PUBLISHED FEBRUARY 1, 1921.

142,474. ICE-CREAM. COLONIAL ICE CREAM CO., Philadelphia, Pa.
Filed September 18, 1920. Serial No. 137,298. PUBLISHED JANUARY 25, 1921.

142,475. PLAIN-LAID THREE OR FOUR STRAND ROPE MADE FROM MANILA, SISAL, OR ISTLE FIBERS OR A MIXTURE OF THESE. COLUMBIAN ROPE COMPANY, Auburn, N. Y.
Filed April 9, 1920. Serial No. 130,879. PUBLISHED NOVEMBER 2, 1920.

142,476. PAINT ENAMEL. CONTINENTAL VARNISH COMPANY, INC., Brooklyn, N. Y.
Filed August 24, 1920. Serial No. 136,398. PUBLISHED JANUARY 25, 1921.

142,477. PAINT ENAMELS AND FINISHES IN THE NATURE OF A PAINT. CONTINENTAL VARNISH COMPANY, INC., Brooklyn, N. Y.
Filed August 24, 1920. Serial No. 136,399. PUBLISHED JANUARY 25, 1921.

142,478. VARNISHES AND PAINT ENAMELS. CONTINENTAL VARNISH COMPANY, INC., Brooklyn, N. Y.
Filed August 24, 1920. Serial No. 136,400. PUBLISHED JANUARY 25, 1921.

142,479. VARNISH. CONTINENTAL VARNISH COMPANY, INC., Brooklyn, N. Y.
Filed September 3, 1920. Serial No. 136,786. PUBLISHED JANUARY 25, 1921.

142,480. PAINT ENAMELS AND VARNISHES. CONTINENTAL VARNISH COMPANY, INC., Brooklyn, N. Y.
Filed September 3, 1920. Serial No. 136,787. PUBLISHED JANUARY 25, 1921.

142,481. LARD. CORN BELT PACKING COMPANY, Dubuque, Iowa.
Filed June 8, 1920. Serial No. 133,399. PUBLISHED JANUARY 25, 1921.

142,482. COFFEE. G. G. CORNWELL & SON, INC., Washington, D. C.
Filed October 22, 1920. Serial No. 138,672. PUBLISHED JANUARY 18, 1921.

142,483. CABINETS FOR RECORDS FOR SOUND-REPRODUCING MACHINES. CRIPPEN RECORD FILE CORPORATION, Rochester, N. Y.
Filed July 1, 1920. Serial No. 134,457. PUBLISHED DECEMBER 7, 1920.

142,484. WATERPROOF ENAMEL PAINT FOR WOOD AND METAL. DUKE B. CROCKETT, Jersey City, N. J.
Filed September 9, 1920. Serial No. 136,970. PUBLISHED JANUARY 25, 1921.

142,485. CAROUSEL. STENGRIM ALSETH, Osakis, Minn.
Filed May 28, 1920. Serial No. 133,038. PUBLISHED DECEMBER 28, 1920.

142,486. BILLIARD-CLOTH FOR BILLIARD AND OTHER GAME TABLES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed July 19, 1920. Serial No. 135,126. PUBLISHED JANUARY 25, 1921.

142,487. CERTAIN ARTICLES OF CLOTHING. CHAIN SHIRT SHOPS, INC., New York, N. Y.
Filed September 7, 1920. Serial No. 136,876. PUBLISHED JANUARY 25, 1921.

142,488. SELF-RISING WHEAT-FLOUR. CHARLESTON MILLING COMPANY, Charleston, Mo.
Filed October 30, 1920. Serial No. 138,980. PUBLISHED JANUARY 25, 1921.

142,489. CANDY. VAL. BLATZ JR. CANDY CO., Milwaukee, Wis.
Filed November 1, 1920. Serial No. 139,020. PUBLISHED JANUARY 25, 1921.

142,490. SHAVING-CREAM USED BEFORE SHAVING. NICOLA CATALFAMO, Coney Island, N. Y.
Filed May 28, 1920. Serial No. 133,043. PUBLISHED FEBRUARY 1, 1921.

142,491. MILK PRODUCTS AND DERIVATIVES THEREOF IN SOLID OR SEMISOLID FORM IN THE NATURE OF CHEESE. CHRIS DAFEN, New York, N. Y.
Filed January 16, 1920. Serial No. 127,210. PUBLISHED FEBRUARY 1, 1921.

142,492. TOY POP-GUNS AND WATER-PISTOLS. DAISY MANUFACTURING CO., Plymouth, Mich.
Filed June 4, 1920. Serial No. 133,253. PUBLISHED DECEMBER 14, 1920.

142,493. LADIES' FROCKS AND COSTUMES. J. DAVIS & Co., New York, N. Y.
Filed August 26, 1920. Serial No. 136,510. PUBLISHED FEBRUARY 1, 1921.

142,494. HOUSE-DRESSES AND APRONS. THE DAYTON DRESS COMPANY, Dayton, Ohio.
Filed October 2, 1920. Serial No. 137,828. PUBLISHED JANUARY 25, 1921.

142,495. CHILLI-CON-CARNE. JACOB E. DECKER & SONS, Mason City, Iowa.
Filed September 11, 1920. Serial No. 137,075. PUBLISHED FEBRUARY 1, 1921.

142,496. TEA. DELANO, POTTER & CO. INC., Boston, Mass.
Filed July 22, 1920. Serial No. 135,271. PUBLISHED FEBRUARY 1, 1921.

142,497. DOLLS. SOPHIA E. DELAVAN, Chicago, Ill.
Filed November 22, 1917. Serial No. 107,525. PUBLISHED JANUARY 4, 1921.

142,498. DOLLS. SOPHIA E. DELAVAN, Chicago, Ill.
Filed November 22, 1917. Serial No. 107,526. PUBLISHED JANUARY 4, 1921.

142,499. DENTAL SPECIALTIES. DE LONG & PREVOST, Worcester, Mass.
Filed June 19, 1920. Serial No. 133,925. PUBLISHED DECEMBER 7, 1920.

142,500. CERTAIN NAMED DENTAL AND SURGICAL APPLIANCES. THE DENTAL MANUFACTURING CO. LTD., London, England.
Filed June 20, 1919. Serial No. 119,794. PUBLISHED DECEMBER 21, 1920.

142,501. BOARD OR TABLE GAMES. JOSEPH L. DEVLIN, Lovell, Wyo.
Filed April 29, 1920. Serial No. 131,784. PUBLISHED JANUARY 18, 1921.

142,502. NECKBANDS. SAMUEL DIAMOND, New York, N. Y.
Filed August 30, 1920. Serial No. 136,621. PUBLISHED JANUARY 25, 1921.

142,503. SHOE-LACES, SHOE-HORNS, AND BUTTON-HOOKS NOT MADE OF PRECIOUS METAL. DOROTHY DODD SHOE COMPANY, Boston, Mass.
Filed May 18, 1920. Serial No. 132,596. PUBLISHED JANUARY 25, 1921.

142,504. CHOCOLATE CANDY. D'ORLANDO & Co., LTD., Boston, Mass.
Filed November 6, 1920. Serial No. 139,298. PUBLISHED JANUARY 25, 1921.

142,505. CARD GAMES. CHARLES JAMES DORSEY, Baltimore, Md.
Filed August 1, 1919. Serial No. 121,173. PUBLISHED NOVEMBER 30, 1920.

142,506. PEARLS. MARK DOTTENHEIM, New York, N. Y.
Filed January 5, 1920. Serial No. 126,809. PUBLISHED FEBRUARY 1, 1921.

142,507. PEARLS. MARK DOTTENHEIM, New York, N. Y.
Filed January 5, 1920. Serial No. 126,810. PUBLISHED FEBRUARY 1, 1921.

142,508. PEARLS. MARK DOTTENHEIM, New York, N. Y.
Filed January 5, 1920. Serial No. 126,811. PUBLISHED FEBRUARY 1, 1921.

142,509. PEARLS. MARK DOTTENHEIM, New York, N. Y.
Filed January 5, 1920. Serial No. 126,812. PUBLISHED FEBRUARY 1, 1921.

142,510. SHOES OF LEATHER, FABRIC, AND COMBINATION. DUNN & MCCARTHY, Auburn, N. Y.
Filed May 13, 1920. Serial No. 132,382. PUBLISHED DECEMBER 7, 1920.

142,511. FIRELESS STOVES. THE DURHAM MANUFACTURING COMPANY, Muncie, Ind.
Filed September 9, 1920. Serial No. 136,973. PUBLISHED JANUARY 25, 1921.

142,512. CANDIES. DUTTON'S MEX-O CANDY CO., Indianapolis, Ind.
Filed September 15, 1920. Serial No. 137,215. PUBLISHED JANUARY 18, 1921.

142,513. LAUNDRY-TABLETS FOR WASHING PURPOSES. EASY WASH LAUNDRY TABLET CO., Tyrone, Pa.
Filed August 7, 1919. Serial No. 121,336. PUBLISHED JULY 20, 1920.

142,514. AUTOMATIC REFRIGERATING MACHINES. JOSEF ELLMAUER, Milwaukee, Wis.
Filed May 4, 1920. Serial No. 132,009. PUBLISHED NOVEMBER 2, 1920.

142,515. SHORTENING. ENEY SHORTENING CO., Chicago, Ill.
Filed November 6, 1920. Serial No. 139,258. PUBLISHED JANUARY 25, 1921.

142,516. DUST-CAPS FOR TIRE-VALVES USED IN CONNECTION WITH PNEUMATIC RUBBER AUTOMOBILE-TIRES. PHILLIP A. ERBES, San Francisco, Calif.
Filed May 10, 1920. Serial No. 132,236. PUBLISHED DECEMBER 21, 1920.

142,517. GOLF-BALLS. THE FAIR, Chicago, Ill.
Filed February 26, 1920. Serial No. 128,921. PUBLISHED DECEMBER 21, 1920.

142,518. COFFEE. FARIA, COSTA & CO., INCORPORATED, New York, N. Y.
Filed May 18, 1920. Serial No. 132,600. PUBLISHED FEBRUARY 1, 1921.

142,519. RUBBER SPONGES AND SPONGE-RUBBER BLOCKS. FEATHEREDGE RUBBER COMPANY, INC., Chicago, Ill.
Filed October 25, 1920. Serial No. 138,760. PUBLISHED JANUARY 25, 1921.

142,520. SPHYGMOMANOMETERS. FEDERAL PRODUCTS CORPORATION, Providence, R. I.
Filed July 19, 1920. Serial No. 135,142. PUBLISHED FEBRUARY 1, 1921.

142,521. HOOF-PADS. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed August 28, 1920. Serial No. 136,586. PUBLISHED JANUARY 25, 1921.

142,522. IRON AND STEEL. FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y.
Filed August 2, 1920. Serial No. 135,703. PUBLISHED SEPTEMBER 21, 1920.

142,523. IRON AND STEEL. FEDERAL TOOL & ALLOY STEEL CORPORATION, New York, N. Y.
Filed August 2, 1920. Serial No. 135,704. PUBLISHED SEPTEMBER 21, 1920.

142,524. STOCK FEED. MACX FEED MILLING CO., Clinton, Iowa.
Filed September 27, 1920. Serial No. 137,671. PUBLISHED JANUARY 18, 1921.

142,525. CERTAIN NAMED RECEPTACLES. THE FIBERLOID CORPORATION, Indian Orchard, Mass.
Filed July 31, 1920. Serial No. 135,639. PUBLISHED FEBRUARY 1, 1921.

142,526. FLOUR MADE FROM WHEAT. C. FIEKER & Co., Carlinville, Ill.
Filed October 30, 1920. Serial No. 138,985. PUBLISHED JANUARY 25, 1921.

142,527. CERTAIN NAMED FURNITURE. FIELD-PARKER COMPANY, El Paso, Tex.
Filed May 10, 1920. Serial No. 132,240. PUBLISHED DECEMBER 21, 1920.

142,528. COOLERS, FILTERS, AND FILTERING MATERIAL. THE FILTRINE MANUFACTURING COMPANY, Brooklyn, N. Y.
Filed June 17, 1919. Serial No. 119,704. PUBLISHED NOVEMBER 16, 1920.

142,529. SCARF-PIN PROTECTORS. MILTON A. FISCHER, New York, N. Y.
Filed May 1, 1920. Serial No. 131,901. PUBLISHED FEBRUARY 1, 1921.

142,530. SHIRTS, PANTS, AND OVERALLS. FISHER BROTHERS, New Castle, Pa.
Filed August 13, 1920. Serial No. 136,073. PUBLISHED FEBRUARY 1, 1921.

142,531. WRITING-INKS. WELCOME E. FITES, San Francisco, Calif.
Filed November 22, 1920. Serial No. 139,964. PUBLISHED JANUARY 25, 1921.

142,532. LAUNDRY-WASHING MACHINES. THE FOLSOM-MILLER COMPANY, Milwaukee, Wis.
Filed June 28, 1920. Serial No. 134,306. PUBLISHED JANUARY 4, 1921.

142,533. MOTION-PICTURE-PROJECTING MACHINES AND PARTS THEREOF. THE FOREIGN PATENTS CORPORATION, New York, N. Y.
Filed July 13, 1920. Serial No. 134,887. PUBLISHED AUGUST 17, 1920.

142,534. DENTAL FILLING MATERIALS—NAMELY, CEMENTS AND ALLOYS AND FILLING PREPARATIONS CONTAINING SILVER NITRATE. THE FORSYTH DENTAL INFIRMARY FOR CHILDREN, Boston, Mass.
Filed June 8, 1920. Serial No. 133,408. PUBLISHED JANUARY 11, 1921.

142,535. CIGARETTES. GEORGE P. FRANCIS, Pawtucket, R. I.
Filed December 31, 1920. Serial No. 141,718. PUBLISHED FEBRUARY 15, 1921.

142,536. ICE-CREAM AND FROZEN CUSTARDS. IKE K. FRIEDMAN, Forth Worth, Tex.
Filed October 23, 1920. Serial No. 138,711. PUBLISHED JANUARY 25, 1921.

142,537. SILK HAIR-NETS. FULD, TRAUBE & CO., INC., New York, N. Y.
Filed August 13, 1920. Serial No. 136,074. PUBLISHED JANUARY 25, 1921.

142,538. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. BIANCHINI, FÉRIER, Lyon, France.
Filed August 17, 1920. Serial No. 136,193. PUBLISHED JANUARY 25, 1921.

142,539. AUTOMOBILE SEATS AND CHAIRS. FORT-PITT BEDDING COMPANY, Pittsburgh, Pa.
Filed July 17, 1919. Serial No. 120,641. PUBLISHED JANUARY 18, 1921.

142,540. [WITHDRAWN.]

142,541. ADHESIVE GUM, ADHESIVE CEMENT, AND GLUE. EDWARD E. GALLE, Los Angeles, Calif.
Filed October 4, 1920. Serial No. 137,879. PUBLISHED JANUARY 25, 1921.

142,542. CANNED, FRESH, AND DRIED FRUITS—NAMELY, DATES, RAISINS, AND CANNED, FRESH, AND DRIED FIGS. GARCIA & MAGGINI CO., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif.
Filed September 24, 1920. Serial No. 137,577. PUBLISHED JANUARY 18, 1921.

142,543. SWISS COTTON FABRICS IN THE PIECE. GARTNER IMPORTING CORPORATION, New York, N. Y.
Filed August 26, 1920. Serial No. 136,519. PUBLISHED JANUARY 18, 1921.

142,544. NIGHT-SHIRTS AND PAJAMAS. LEWIS, GERSTMAN & CO., New York, N. Y.
Filed August 25, 1920. Serial No. 136,469. PUBLISHED JANUARY 25, 1921.

142,545. ELECTRIC CLOTHES-WASHERS AND ELECTRIC CLOTHES-IRONERS. GOOD HOUSEKEEPING ELECTRIC SHOPPE, Minneapolis, Minn.
Filed June 4, 1920. Serial No. 133,257. PUBLISHED OCTOBER 19, 1920.

142,546. DOLLS AND DOLLS' HATS AND DRESSES. GORDON F. GILLESPIE, Los Angeles, Calif.
Filed March 26, 1919. Serial No. 117,225. PUBLISHED NOVEMBER 23, 1920.

142,547. FERTILIZERS. JOHN R. GUTHRIE, Richmond, Va.
Filed July 16, 1920. Serial No. 135,040. PUBLISHED JANUARY 18, 1921.

142,548. SOAP FLAKES. WALTER C. GRAHAM, Cohoes, N. Y.
Filed January 6, 1920. Serial No. 126,856. PUBLISHED FEBRUARY 1, 1921.

142,549. HOSIERY. GREAT AMERICAN KNITTING MILLS INC., Bechtelsville and Bally, Pa.
Filed May 20, 1920. Serial No. 132,691. PUBLISHED JANUARY 25, 1921.

142,550. CHEESE. GREENWICH CHEESE CO., New York, N. Y.
Filed August 23, 1920. Serial No. 136,368. PUBLISHED JANUARY 18, 1921.

142,551. HONEY. JOSEPH SAUL GROSS, Los Angeles, Calif.
Filed November 6, 1920. Serial No. 139,260. PUBLISHED JANUARY 25, 1921.

142,552. SMOKING-TOBACCO. GUNN & BARRICK TOBACCO CO., Springfield, Tenn.
Filed June 17, 1920. Serial No. 133,824. PUBLISHED JANUARY 11, 1921.

142,553. CANDY. GURLEY CANDY COMPANY, Minneapolis, Minn.
Filed October 7, 1920. Serial No. 138,048. PUBLISHED JANUARY 18, 1921.

142,554. SILK, ARTIFICIAL SILK, WOOLEN, COTTON, AND LINEN FABRICS IN THE PIECE. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed March 9, 1920. Serial No. 129,462. PUBLISHED FEBRUARY 1, 1921.

142,555. SILK, LINEN, WOOLEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed August 17, 1920. Serial No. 136,197. PUBLISHED JANUARY 18, 1921.

142,556. SAWMILLS. HALL AUTO COMPANY, Collinsville, Ala.
Filed October 14, 1920. Serial No. 138,289. PUBLISHED JANUARY 18, 1921.

142,557. ELECTRIC CONTROL-CABINETS, SWITCH-BOXES, PANEL-BOARDS, AND CUT-OUT BOXES. BERTHOLD L. HALTENHOF, New York, N. Y.
Filed September 22, 1920. Serial No. 137,476. PUBLISHED JANUARY 25, 1921.

142,558. BROOMS. THE HARRIS BROOM COMPANY, Chicago, Ill.
Filed June 23, 1920. Serial No. 134,069. PUBLISHED DECEMBER 21, 1920.

142,559. POLISHES FOR FURNITURE, AUTOMOBILES, AND OTHER PAINTED AND VARNISHED SURFACES AND FOR REOILING-MOPS. THE HARZEE MANUFACTURING COMPANY, Cleveland, Ohio.
Filed May 5, 1920. Serial No. 132,045. PUBLISHED FEBRUARY 1, 1921.

142,560. ELECTRICALLY-OPERATED PORTABLE MACHINERY. R. G. HASKINS COMPANY, Chicago, Ill.
Filed February 16, 1920. Serial No. 128,439. PUBLISHED FEBRUARY 1, 1921.

142,561. DOLLS AND PAPER DOLLS AND DOLLS' OUTFITS—VIZ., DRESSES AND HATS FOR DOLLS. HAZEL DRUKKER SILBERMAN, New York, N. Y.
Filed October 21, 1919. Serial No. 124,054. PUBLISHED JANUARY 18, 1921.

142,562. PIECE GOODS CONSISTING OF VELVET CLOTH AND VELVETEEN CLOTH. WILLIAM A. HEDEMAN, New York, N. Y.
Filed August 19, 1920. Serial No. 136,264. PUBLISHED JANUARY 18, 1921.

142,563. LEAF-TOBACCO. HENRY BOHME & SONS, INC., New York, N. Y.
Filed May 19, 1920. Serial No. 132,627. PUBLISHED NOVEMBER 16, 1920.

142,564. DRAWING-PAPER. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed August 2, 1920. Serial No. 135,711. PUBLISHED JANUARY 25, 1921.

142,565. NON-INTOXICATING, CEREAL, MALT BEVERAGE. HIGHLAND BREWING CO., Highland, Ill.
Filed May 28, 1920. Serial No. 133,054. PUBLISHED JANUARY 25, 1921.

142,566. COTTON PIECE GOODS. HINCK & MULLER, New York, N. Y.
Filed August 2, 1920. Serial No. 135,717. PUBLISHED JANUARY 18, 1921.

142,567. MEN'S AND BOYS' OUTING CLOTHING—NAMELY, COATS, SHIRTS, TROUSERS, RIDING-BREECHES, AND KNICKERBOCKERS. CAL HIRSCH & SONS MERCANTILE CO., St. Louis, Mo., and Los Angeles, Calif.
Filed August 21, 1920. Serial No. 136,329. PUBLISHED JANUARY 18, 1921.

142,568. PEANUT-BUTTER. WALTER J. HIRSCH CO., Chicago, Ill.
Filed November 3, 1920. Serial No. 139,122. PUBLISHED JANUARY 25, 1921.

142,569. INK FOR USE IN STENCIL-DUPLICATING MACHINES. LAURENCE F. HOFER, Salem, Oreg.
Filed October 29, 1920. Serial No. 138,947. PUBLISHED JANUARY 25, 1921.

142,570. CHOICE REFINED PEANUT-OIL. CHAS. HOLLINSHED CO., INC., New York, N. Y.
Filed November 4, 1920. Serial No. 139,158. PUBLISHED JANUARY 25, 1921.

142,571. CONTAINERS FOR DISINFECTING SUBSTANCES. CHARLES F. HOOD, Connellsville, Pa.
Filed August 7, 1919. Serial No. 121,339. PUBLISHED DECEMBER 7, 1920.

142,572. SOAP. HOWARD BROS. CHEMICAL CO., Buffalo, N. Y.
Filed September 26, 1919. Serial No. 123,162. PUBLISHED FEBRUARY 1, 1921.

142,573. LEATHER-PRESERVATIVE. F. A. HOWARD LABORATORIES, INC., Boston, Mass.
Filed February 3, 1920. Serial No. 127,918. PUBLISHED FEBRUARY 1, 1921.

142,574. PREPARATION FOR CLEANING GLASS. HOWARD & SCOTT, New York, N. Y.
Filed November 26, 1920. Serial No. 140,179. PUBLISHED JANUARY 25, 1921.

142,575. COTTON GOODS IN THE PIECE. HUDSON & BOAS, New York, N. Y.
Filed August 16, 1920. Serial No. 136,156. PUBLISHED JANUARY 18, 1921.

142,576. CIGARS. HUDSON CIGAR COMPANY, Beallsville, Ohio.
Filed July 17, 1920. Serial No. 135,103. PUBLISHED FEBRUARY 1, 1921.

142,577. TEXTILE TAPES. HUDSON NARROW FABRIC CO., Hudson, Mass.
Filed April 19, 1920. Serial No. 131,328. PUBLISHED FEBRUARY 1, 1921.

142,578. COFFEE. HUGHES & ADAMS, INC., Seattle, Wash.
Filed November 6, 1920. Serial No. 139,272. PUBLISHED JANUARY 25, 1921.

142,579. CERTAIN NAMED FOODS. HYGRADE PROVISION COMPANY, INC., Brooklyn, N. Y.
Filed June 17, 1920. Serial No. 133,827. PUBLISHED FEBRUARY 1, 1921.

142,580. REMOVABLE OR KNOCKDOWN INTERIOR PARTITIONS AND RAILINGS AND REMOVABLE INTERIOR TRIM. IMPROVED OFFICE PARTITION COMPANY, New York, N. Y.
Filed April 22, 1919. Serial No. 117,727. PUBLISHED DECEMBER 21, 1920.

142,581. CERTAIN METAL COOKING AND HOUSEHOLD UTENSILS. INDIANA ALUMINUM WARE COMPANY, Elkhart, Ind.
Filed June 25, 1920. Serial No. 134,191. PUBLISHED FEBRUARY 1, 1921.

142,582. CERTAIN AGRICULTURAL MACHINERY AND PARTS THEREOF. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed October 2, 1920. Serial No. 137,832. PUBLISHED JANUARY 25, 1921.

142,583. METAL ALLOY CONTAINING NICKEL AND COPPER. THE INTERNATIONAL NICKEL CO., New York, N. Y.
Filed August 12, 1920. Serial No. 136,034. PUBLISHED FEBRUARY 1, 1921.

142,584. OVERALLS, COATS, PANTALOONS, PANTS, AND PLAY-SUITS. THE IRONALL FACTORIES CO., Cincinnati, Ohio.
Filed August 2, 1920. Serial No. 135,718. PUBLISHED JANUARY 18, 1921.

142,585. WHEAT-FLOUR. ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed August 20, 1920. Serial No. 136,298. PUBLISHED FEBRUARY 1, 1921.

142,586. CLEANSING AND GREASE-REMOVING SOAP. IT'S IT MANUFACTURING CO., Philadelphia, Pa.
Filed December 11, 1920. Serial No. 140,944. PUBLISHED JANUARY 25, 1921.

142,587. DRESS-SILK IN THE PIECE. JANSEN AND PRETZFELD, INC., New York, N. Y.
Filed June 9, 1920. Serial No. 133,474. PUBLISHED JANUARY 25, 1921.

142,588. CANVAS BAGS FOR CARRYING COAL. JENCKES SPINNING COMPANY, Pawtucket, R. I.
Filed May 18, 1920. Serial No. 132,605. PUBLISHED JANUARY 25, 1921.

142,589. BEVERAGE-POWDERS FOR THE MAKING OF NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES. JIFFY DESSERT COMPANY, Waukesha, Wis.
Filed May 27, 1920. Serial No. 133,013. PUBLISHED JANUARY 25, 1921.

142,590. UNITARY ELECTRIC-LIGHTING PLANTS. JOERNS-MOHR CORPORATION, St. Paul, Minn.
Filed August 30, 1920. Serial No. 136,631. PUBLISHED FEBRUARY 1, 1921.

142,591. SILVER AND METAL POLISH. GEORGE H. JOHNSTON, Norristown, Pa.
Filed August 31, 1920. Serial No. 136,683. PUBLISHED FEBRUARY 1, 1921.

142,592. CANNED FISH. THE JOHNSON-LOCKE MERCANTILE CO., San Francisco, Calif.
Filed November 6, 1920. Serial No. 139,282. PUBLISHED JANUARY 25, 1921.

142,593. PAINT IN PASTE FORM. THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio.
Filed September 13, 1920. Serial No. 137,127. PUBLISHED JANUARY 25, 1921.

142,594. CLEANSER FOR REMOVING GREASE, RUST, AND OTHER SPOTS FROM FABRICS. CHARLES MCADAM COMPANY, Chicago, Ill.
Filed November 12, 1920. Serial No. 139,587. PUBLISHED JANUARY 25, 1921.

142,595. ARTIFICIAL FLIES OR BUGS FOR FLY-FISHING. CALL J. MCCARTHY, Chicago, Ill.
Filed June 14, 1920. Serial No. 133,670. PUBLISHED DECEMBER 7, 1920.

142,596. DEVICE DESIGNED TO SUPPLY MOIST AIR INTO THE INTAKE-MANIFOLD OF GASOLENE-ENGINES. MCCOMAS & GOODWIN, Pomona, Calif.
Filed August 23, 1920. Serial No. 136,382. PUBLISHED FEBRUARY 1, 1921.

142,597. CHUCKS AND COLLETS. MCCROSKY TOOL CORPORATION, Meadville, Pa.
Filed October 8, 1920. Serial No. 138,094. PUBLISHED JANUARY 18, 1921.

142,598. REAMERS. MCCROSKY TOOL CORPORATION, Meadville, Pa.
Filed October 8, 1920. Serial No. 138,095. PUBLISHED JANUARY 18, 1921.

142,599. WHEAT-FLOUR. EARLE-MCGAVOCK MILLING COMPANY, Asheville, N. C.
Filed October 30, 1920. Serial No. 138,983. PUBLISHED JANUARY 25, 1921.

142,600. PUBLICATION USUALLY ISSUED SEVERAL TIMES A YEAR. WILLIAM MACBETH, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,125. PUBLISHED JANUARY 11, 1921.

142,601. AUTOMOBILE-TIRE-REPAIR OUTFITS COMPRISING RUBBER PATCHES, CEMENT, AND BUFFER THEREFOR. MAGIC AUTO SUPPLY COMPANY, Hartford, Conn.
Filed October 11, 1919. Serial No. 123,707. PUBLISHED FEBRUARY 1, 1921.

142,602. MACHINERY BELTING. MAIN BELTING COMPANY, Philadelphia, Pa.
Filed July 24, 1920. Serial No. 135,377. PUBLISHED FEBRUARY 1, 1921.

142,603. ADHESIVE PASTE. WILLIAM E. MALM, Cleveland, Ohio.
Filed November 24, 1920. Serial No. 140,129. PUBLISHED JANUARY 18, 1921.

142,604. WINDSHIELD-CLEANERS OF THE SQUEEGEE TYPE. THE B. I. MALOUF COMPANY, Salt Lake City, Utah.
Filed June 4, 1920. Serial No. 133,274. PUBLISHED DECEMBER 14, 1920.

142,605. ABRASIVES COATED ON CLOTH OR PAPER OR BOTH. MANNING ABRASIVE CO. INC., Troy, N. Y.
Filed December 21, 1920. Serial No. 141,382. PUBLISHED MARCH 1, 1921.

142,606. ABRASIVES COATED ON CLOTH OR PAPER OR BOTH. MANNING ABRASIVE CO. INC., Troy, N. Y.
Filed December 21, 1920. Serial No. 141,383. PUBLISHED MARCH 1, 1921.

142,607. WINDOW-STANDS MADE OF WOOD FOR DISPLAYING GOODS. JOHN MANSELL-PHAYRE, West Cowes, Isle of Wight, England.
Filed May 17, 1920. Serial No. 132,559. PUBLISHED NOVEMBER 23, 1920.

142,608. KITCHEN-CABINETS. MARSH FURNITURE COMPANY, High Point, N. C.
Filed May 5, 1920. Serial No. 132,056. PUBLISHED NOVEMBER 23, 1920.

142,609. COTTON-BATS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,272. PUBLISHED JANUARY 25, 1921.

142,610. COTTON-BATS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,276. PUBLISHED JANUARY 25, 1921.

142,611. COTTON-BATS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,277. PUBLISHED JANUARY 25, 1921.

142,612. CLOCKS AND WATCHES. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed July 31, 1919. Serial No. 121,150. PUBLISHED FEBRUARY 1, 1921.

142,613. FRUIT-PITTING MACHINES. MARSHALL MANUFACTURING COMPANY, Omaha, Nebr.
Filed October 20, 1920. Serial No. 138,582. PUBLISHED JANUARY 25, 1921.

142,614. MOPS. MASSASOIT MANUFACTURING COMPANY, Fall River, Mass.
Filed March 4, 1920. Serial No. 129,237. PUBLISHED OCTOBER 12, 1920.

142,615. TIRES MADE WHOLLY OR PARTLY OF RUBBER OR HAVING RUBBER INCORPORATED THEREWITH. THE MASTER TIRE AND RUBBER COMPANY, Dayton, Ohio.
Filed February 14, 1920. Serial No. 128,396. PUBLISHED FEBRUARY 1, 1921.

142,616. WRAPPERS. MID-WEST BOX COMPANY, Chicago, Ill.
Filed July 12, 1920. Serial No. 134,831. PUBLISHED FEBRUARY 1, 1921.

142,617. CANDIES. ODELSA MFG. CO., Oklahoma, Okla.
Filed November 9, 1920. Serial No. 139,416. PUBLISHED JANUARY 25, 1921.

142,618. LEATHER AND CLOTH GLOVES AND LEATHER AND CLOTH MITTENS. MILWAUKEE GLOVE COMPANY, Milwaukee, Wis.
Filed October 15, 1920. Serial No. 138,328. PUBLISHED JANUARY 18, 1921.

142,619. ELECTRIC HEATERS FOR LIQUIDS. MILWAUKEE MANUFACTURING COMPANY, Milwaukee, Wis.
Filed June 15, 1920. Serial No. 133,742. PUBLISHED FEBRUARY 1, 1921.

142,620. CIGARETTES. MIRANDA LIMITED, London, England.
Filed March 17, 1920. Serial No. 129,853. PUBLISHED NOVEMBER 23, 1920.

142,621. WIRE FABRIC FOR SUPPORTING MATTRESSES AND CUSHIONS. THE MOORE COMPANY, Muncie, Ind.
Filed July 19, 1920. Serial No. 135,158. PUBLISHED FEBRUARY 1, 1921.

142,622. PREPARATION FOR TINTING THE CHEEKS AND A POMADE FOR THE HAIR IN OINTMENT AND LIQUID FORM. JOSEPH H. MOORE, Providence, R. I.
Filed July 22, 1920. Serial No. 135,287. PUBLISHED FEBRUARY 8, 1921.

142,623. CERTAIN NAMED TOILET AND MEDICINAL PREPARATIONS. JOSEPH H. MOORE, Providence, R. I.
Filed July 22, 1920. Serial No. 135,288. PUBLISHED FEBRUARY 8, 1921.

142,624. WHEAT-FLOUR. MORELAND-JONES COMPANY, Americus, Ga.
Filed September 2, 1920. Serial No. 136,759. PUBLISHED JANUARY 18, 1921.

142,625. RAZORS. EMIL MORRIS, Detroit, Mich.
Filed October 26, 1920. Serial No. 138,823. PUBLISHED JANUARY 25, 1921.

142,626. CANDY. A. G. MORSE CO., Chicago, Ill.
Filed November 6, 1920. Serial No. 139,294. PUBLISHED JANUARY 25, 1921.

142,627. READY-MIXED PAINTS, COLORED VARNISHES, POLISHING-OIL, OIL-COLORS, AND JAPAN-COLORS. E. J. MURPHY COMPANY, INC., Washington, D. C.
Filed September 10, 1920. Serial No. 137,036. PUBLISHED JANUARY 25, 1921.

142,628. OLIVE-OIL. NUNZIO STALLONE BROS., New York, N. Y.
Filed November 8, 1920. Serial No. 139,373. PUBLISHED JANUARY 25, 1921.

142,629. SPARK-INTENSIFIERS AND IGNITION-DETECTORS. THE NASH COMPANY, St. Louis, Mo.
Filed October 15, 1920. Serial No. 138,331. PUBLISHED JANUARY 25, 1921.

142,630. LOCKS AND LATCHES. C. A. NASH & SON, INC., Norfolk, Va.
Filed March 1, 1920. Serial No. 129,076. PUBLISHED JANUARY 25, 1921.

142,631. CERTAIN PAINTS AND PAINTERS' MATERIALS. C. A. NASH & SON, INC., Norfolk, Va.
Filed August 25, 1920. Serial No. 136,485. PUBLISHED JANUARY 18, 1921.

142,632. LADIES', MISSES', BOYS', AND MEN'S SHOES AND OXFORDS. NATIONAL CLOAK & SUIT CO., New York, N. Y.
Filed September 11, 1920. Serial No. 137,088. PUBLISHED JANUARY 25, 1921.

142,633. FLY-PAPERS, FLYTRAPS, AND FLYCATCHERS OF ALL KINDS. NATIONAL FLY CATCHER COMPANY LIMITED, Montreal, Quebec, Canada.
Filed July 13, 1920. Serial No. 134,905. PUBLISHED NOVEMBER 2, 1920.

142,634. CERTAIN PAINTS, PAINT ENAMELS, AND FINISHES OF A PAINT NATURE. NATIONAL MAGNESITE PRODUCTS CORPORATION, New York, N. Y.
Filed September 1, 1920. Serial No. 136,715. PUBLISHED FEBRUARY 8, 1921.

142,635. SHOE AND CLOTHING BUTTONS FOR ATTACHMENT TO WEARING-APPAREL. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed February 9, 1920. Serial No. 128,157. PUBLISHED FEBRUARY 1, 1921.

142,636. LEDGER-PAPER. NEENAH PAPER COMPANY, Neenah, Wis.
Filed September 3, 1920. Serial No. 136,807. PUBLISHED JANUARY 25, 1921.

142,637. CARBON-PAPER AND TYPEWRITER-RIBBONS. THE NELSON-EISMANN-QUIST CO., Chicago, Ill.
Filed August 13, 1919. Serial No. 121,638. PUBLISHED FEBRUARY 1, 1921.

142,638. CONCRETE BUILDING-BLOCKS. WILLIAM E. NELSON, San Antonio, Tex.
Filed November 1, 1920. Serial No. 139,045. PUBLISHED JANUARY 18, 1921.

142,639. APPARATUS EMPLOYED FOR CLEANING GARMENTS BY THE DRY-CLEANING PROCESS. THE NESLO DRY CLEANER MANUFACTURING COMPANY, Green Bay, Wis.
Filed October 25, 1919. Serial No. 124,184. PUBLISHED FEBRUARY 1, 1921.

142,640. FILES AND RASPS AND HOLDERS AND HANDLES THEREFOR. NICHOLSON FILE COMPANY, Providence, R. I.
Filed July 18, 1919. Serial No. 120,673. PUBLISHED FEBRUARY 1, 1921.

142,641. MARKING AND STAMPING MACHINES. NOBLE & WESTBROOK MANUFACTURING COMPANY, East Hartford and Hartford, Conn.
Filed September 23, 1919. Serial No. 123,036. PUBLISHED FEBRUARY 1, 1921.

142,642. APPLE CIDER. NORTHERN PICKLE COMPANY, Tacoma, Wash.
Filed September 13, 1920. Serial No. 137,137. PUBLISHED JANUARY 25, 1921.

142,643. SOAPS. NORTHWESTERN SOAP MANUFACTURING COMPANY, Lewistown, Mont.
Filed February 9, 1920. Serial No. 128,160. PUBLISHED FEBRUARY 1, 1921.

142,644. GRINDING-WHEELS AND ABRASIVE STONES. NORTON COMPANY, Worcester, Mass.
Filed October 28, 1920. Serial No. 138,920. PUBLISHED JANUARY 25, 1921.

142,645. TOY VEHICLES. THE NOVELTY PRODUCTS COMPANY, Berkeley, Calif.
Filed February 12, 1920. Serial No. 128,315. PUBLISHED NOVEMBER 30, 1920.

142,646. OIL-FILTERS. WM. W. NUGENT & CO., Chicago, Ill.
Filed June 10, 1920. Serial No. 133,553. PUBLISHED NOVEMBER 2, 1920.

142,647. BROOMS. KANSAS CITY BROOM COMPANY, Kansas City, Mo.
Filed October 29, 1918. Serial No. 113,930. PUBLISHED JANUARY 14, 1919.

142,648. SOAP. THOMAS C. KANSAS, Amsterdam, N. Y.
Filed November 24, 1920. Serial No. 140,124. PUBLISHED JANUARY 25, 1921.

142,649. CANDY. A. KARCHER CANDY CO., Little Rock, Ark.
Filed November 11, 1920. Serial No. 139,536. PUBLISHED JANUARY 25, 1921.

142,650. ELECTRIC LAMPS FOR AUTOMOBILES AND OTHER VEHICLES. THE K-D LAMP COMPANY, Cincinnati, Ohio.
Filed March 25, 1920. Serial No. 130,173. PUBLISHED FEBRUARY 1, 1921.

142,651. CORN CANDY. JOHN L. KELLOGG, Battle Creek, Mich.
Filed November 5, 1920. Serial No. 139,210. PUBLISHED JANUARY 25, 1921.

142,652. REFRIGERATING APPARATUS. KELVINATOR CORPORATION, Detroit, Mich.
Filed May 28, 1920. Serial No. 133,058. PUBLISHED NOVEMBER 2, 1920.

142,653. DOLLS. KENTUCKY DERBY CO. INC., New York, N. Y.
Filed April 9, 1920. Serial No. 130,902. PUBLISHED NOVEMBER 16, 1920.

142,654. IRONING-TOOLS FOR MILLINERY PURPOSES. FREDERICK E. KERN, St. Louis, Mo.
Filed July 26, 1920. Serial No. 135,425. PUBLISHED FEBRUARY 1, 1921.

142,655. CANDY. KING CANDY CO., Fort Worth, Tex.
Filed October 26, 1920. Serial No. 138,811. PUBLISHED JANUARY 25, 1921.

142,656. CANDY. KING CANDY CO., Fort Worth, Tex.
Filed October 26, 1920. Serial No. 138,812. PUBLISHED JANUARY 18, 1921.

142,657. SPARK-PLUGS. KING BEE SPARK PLUG COMPANY, St. Louis, Mo.
Filed August 2, 1920. Serial No. 135,724. PUBLISHED FEBRUARY 1, 1921.

142,658. CANNED FRUITS AND CANNED VEGETABLES. ERNEST KIRSTEN, Oakland, Calif.
Filed November 6, 1920. Serial No. 139,284. PUBLISHED JANUARY 25, 1921.

142,659. SYRUP MADE FROM A COMPOUND OF GRANULATED SUGAR AND MAPLE-SUGAR FOR TABLE PURPOSES. JOSEPH LORENZ KLEIN, St. Louis, Mo.
Filed May 19, 1920. Serial No. 132,647. PUBLISHED FEBRUARY 1, 1921.

142,660. HOSIERY AND UNDERWEAR OF KNITTED AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN. A. KOMMEL & SON, New York, N. Y.
Filed September 2, 1920. Serial No. 136,755. PUBLISHED JANUARY 18, 1921.

142,661. CANDY. JOSEPH E. KRAMER CORPORATION, Chicago, Ill.
Filed November 5, 1920. Serial No. 139,209. PUBLISHED JANUARY 25, 1921.

142,662. CIGARS. KRAUS & CO. INC., Baltimore, Md.
Filed June 9, 1920. Serial No. 133,480. PUBLISHED NOVEMBER 23, 1920.

142,663. SHOES MADE OF LEATHER AND CANVAS OR A COMBINATION OF LEATHER AND CANVAS. THE KROHN-FECHHEIMER COMPANY, Cincinnati, Ohio.
Filed September 29, 1920. Serial No. 137,734. PUBLISHED JANUARY 25, 1921.

142,664. DEVICES IN THE NATURE OF OUIJA-BOARDS. ARTHUR L. LAMOREAUX, St. Paul, Minn.
Filed August 20, 1920. Serial No. 136,299. PUBLISHED DECEMBER 14, 1920.

142,665. GAME-BOARD. ABE L. LANDIS, Nashville, Tenn.
Filed September 10, 1918. Serial No. 113,107. PUBLISHED DECEMBER 14, 1920.

142,666. CIGARS. LA NAVA CIGAR COMPANY, Greenville, S. C.
Filed April 9, 1920. Serial No. 130,903. PUBLISHED JANUARY 4, 1921.

142,667. FRESH CITRUS FRUITS. LEECO CITRUS GROWERS ASSOCIATION, Fort Myers, Fla.
Filed November 6, 1920. Serial No. 139,288. PUBLISHED JANUARY 25, 1921.

142,668. TOOL AND GEAR STEEL. LIBERTY STEEL PRODUCTS CO., INC., New York, N. Y.
Filed March 5, 1919. Serial No. 116,306. PUBLISHED FEBRUARY 1, 1921.

142,669. CIGARS. VICTOR LEVOR, Attica, Ind.
Filed July 13, 1920. Serial No. 134,899. PUBLISHED JANUARY 25, 1921.

142,670. SMOKING AND CHEWING TOBACCO AND CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed September 18, 1919. Serial No. 122,843. PUBLISHED OCTOBER 12, 1920.

142,671. SOLDER COMBINED WITH A FLUX. ANDERS LINDAHL, Stockholm, Sweden.
Filed February 25, 1920. Serial No. 128,891. PUBLISHED FEBRUARY 1, 1921.

142,672. SOLDER COMBINED WITH A FLUX. ANDERS LINDAHL, Stockholm, Sweden.
Filed February 25, 1920. Serial No. 128,892. PUBLISHED FEBRUARY 1, 1921.

142,673. NON-ALCOHOLIC MALT BEVERAGES. V. LOEWER'S GAMBRINUS BREWERY CO., New York, N. Y.
Filed February 11, 1919. Serial No. 115,767. PUBLISHED FEBRUARY 1, 1921.

142,674. NON-ALCOHOLIC MALT BEVERAGES. V. LOEWER'S GAMBRINUS BREWERY CO., New York, N. Y.
Filed February 11, 1919. Serial No. 115,769. PUBLISHED FEBRUARY 1, 1921.

142,675. FLY-BOOKS AND SNELLED-FISHHOOK BOOKS. LUTHER DANA CHAPMAN, Wellesley, Mass.
Filed October 27, 1920. Serial No. 138,864. PUBLISHED JANUARY 18, 1921.

142,676. SMOKING AND CHEWING TOBACCO AND CIGARETTES. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y.
Filed June 21, 1920. Serial No. 133,974. PUBLISHED JANUARY 18, 1921.

142,677. CIGARS. KING-FERREE CO., Greensboro, N. C.
Filed April 2, 1920. Serial No. 130,535. PUBLISHED NOVEMBER 23, 1920.

142,678. WOMEN'S, MISSES', JUNIOR, AND CHILDREN'S GARMENTS—NAMELY, COATS, SUITS, DRESSES, OUTER SKIRTS. HARRY KITZINGER & CO., New York, N. Y.
Filed March 17, 1920. Serial No. 129,848. PUBLISHED JANUARY 25, 1921.

142,679. COLLECTION-ENVELOPS. THEOPHIELD D. OAKLEY, Chicago, Ill.
Filed July 10, 1920. Serial No. 134,786. PUBLISHED JANUARY 25, 1921.

142,680. HAIR-NETS. EDWARD G. OEHLSCHLAEGER, New York, N. Y.
Filed August 28, 1920. Serial No. 136,600. PUBLISHED JANUARY 18, 1921.

142,681. BUTTER SUBSTITUTE. THE OHIO DAIRY CO., Toledo, Ohio.
Filed October 30, 1920. Serial No. 138,997. PUBLISHED JANUARY 25, 1921.

142,682. MOTOR-VEHICLES—NAMELY, GASOLENE AND ELECTRICALLY DRIVEN MOTOR-TRUCKS. ONEIDA MOTOR TRUCK CO., Green Bay, Wis.
Filed February 9, 1920. Serial No. 128,162. PUBLISHED FEBRUARY 1, 1921.

142,683. MEN'S ATHLETIC UNDERWEAR MADE OF TEXTILE FABRIC IN ONE-PIECE GARMENTS. OPPENHEIM OBERNDORF & CO. INC., Baltimore, Md.
Filed August 9, 1920. Serial No. 135,943. PUBLISHED JANUARY 25, 1921.

142,684. TRUNKS. ORENSTEIN TRUNK COMPANY, Newark, N. J.
Filed June 15, 1920. Serial No. 133,749. PUBLISHED JANUARY 11, 1921.

142,685. BRISLING AND SILD. (FREQUENTLY KNOWN GENERICALLY AS SARDINES.) THE OVERSEA EXPORT CO. LTD., Christiania, Norway.
Filed March 13, 1920. Serial No. 129,665. PUBLISHED FEBRUARY 1, 1921.

142,686. PIECE GOODS OF WINDOW-SHADE CLOTHS OF SIZED AND PAINTED FABRICS. PABST & COMPANY INC., Philadelphia, Pa.
Filed September 15, 1920. Serial No. 137,233. PUBLISHED JANUARY 18, 1921.

142,687. LEATHER BELTING. PAGE BELTING COMPANY, Concord, N. H.
Filed October 23, 1920. Serial No. 138,726. PUBLISHED JANUARY 25, 1921.

142,688. LEATHER BELTING. PAGE BELTING COMPANY, Concord, N. H.
Filed October 23, 1920. Serial No. 138,727. PUBLISHED JANUARY 25, 1921.

142,689. LEATHER BELTING. PAGE BELTING COMPANY, Concord, N. H.
Filed October 23, 1920. Serial No. 138,728. PUBLISHED JANUARY 25, 1921.

142,690. LEATHER BELTING. PAGE BELTING COMPANY, Concord, N. H.
Filed October 27, 1920. Serial No. 138,872. PUBLISHED JANUARY 25, 1921.

142,691. RAWHIDE LACE-LEATHER. PAGE BELTING COMPANY, Concord, N. H.
Filed October 27, 1920. Serial No. 138,876. PUBLISHED JANUARY 25, 1921.

142,692. LEATHER BELTING. PAGE BELTING COMPANY, Concord, N. H.
Filed October 27, 1920. Serial No. 138,877. PUBLISHED JANUARY 25, 1921.

142,693. RAWHIDE LACE-LEATHER. PAGE BELTING COMPANY, Concord, N. H.
Filed November 2, 1920. Serial No. 139,090. PUBLISHED JANUARY 25, 1921.

142,694. LEATHER BELTING. PAGE BELTING COMPANY, Concord, N. H.
Filed November 2, 1920. Serial No. 139,091. PUBLISHED JANUARY 25, 1921.

142,695. RAWHIDE LACE-LEATHER. PAGE BELTING COMPANY, Concord, N. H.
Filed November 2, 1920. Serial No. 139,092. PUBLISHED JANUARY 25, 1921.

142,696. SOAP. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,136. PUBLISHED JANUARY 25, 1921.

142,697. SOAP. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,137. PUBLISHED JANUARY 25, 1921.

142,698. SOAP. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,138. PUBLISHED JANUARY 25, 1921.

142,699. SOAP. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,139. PUBLISHED JANUARY 25, 1921.

142,700. GAME-BOARDS AND PIECES THEREFOR. GEORGE HENRY PARKER, Stamford, Conn.
Filed April 15, 1918. Serial No. 110,219. PUBLISHED JANUARY 11, 1921.

142,701. MEN'S HATS. PARROTTE, MCINTYRE & CO., Chicago, Ill.
Filed October 6, 1920. Serial No. 138,016. PUBLISHED JANUARY 25, 1921.

142,702. CERTAIN PAINTS AND PAINTERS' MATERIALS. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed October 21, 1920. Serial No. 138,650. PUBLISHED FEBRUARY 8, 1921.

142,703. PEANUT-BUTTER. PEANUT PRODUCTS CORPORATION, Tacoma, Wash.
Filed November 6, 1920. Serial No. 139,301. PUBLISHED JANUARY 25, 1921.

142,704. MEN'S AND YOUNG MEN'S OVERCOATS AND SUITS IN ONE, TWO, AND THREE PIECE GARMENTS. LOUIS PERLSTEIN, New York, N. Y.
Filed August 13, 1920. Serial No. 136,088. PUBLISHED JANUARY 18, 1921.

142,705. FRESH CITRUS FRUITS. HARRY W. PETERSON & COMPANY, Palmetto, Fla.
Filed November 6, 1920. Serial No. 139,304. PUBLISHED JANUARY 25, 1921.

142,706. VARIOUS NON-ALCOHOLIC, MALTLESS BEVERAGES COMMONLY KNOWN AS SOFT DRINKS. PIEL BROS., INC., Brooklyn, N. Y.
Filed July 23, 1920. Serial No. 135,342. PUBLISHED JANUARY 18, 1921.

142,707. VARIOUS NON-ALCOHOLIC, MALTLESS BEVERAGES COMMONLY KNOWN AS SOFT DRINKS. PIEL BROS., INC., Brooklyn, N. Y.
Filed July 23, 1920. Serial No. 135,343. PUBLISHED JANUARY 18, 1921.

142,708. SHOE-LACES, SHOE-HORNS, AND BUTTON-HOOKS NOT MADE OF PRECIOUS METAL. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed May 18, 1920. Serial No. 132,609. PUBLISHED JANUARY 25, 1921.

142,709. MANILA ROPE. THE PORTLAND CORDAGE CO., Portland, Oreg.
Filed July 13, 1920. Serial No. 134,909. PUBLISHED NOVEMBER 30, 1920.

142,710. METAL BARS FOR REINFORCING CONCRETE. THE POLLAK STEEL COMPANY, Cincinnati, Ohio.
Filed August 26, 1920. Serial No. 136,529. PUBLISHED JANUARY 18, 1921.

142,711. CHEESE, BUTTER, AND EGGS. PHENIX CHEESE COMPANY, New York, N. Y.
Filed October 18, 1920. Serial No. 138,451. PUBLISHED JANUARY 18, 1921.

142,712. VARIOUS NON-ALCOHOLIC, MALTLESS BEVERAGES — COMMONLY KNOWN AS SOFT DRINKS. PIEL BROS., INC., Brooklyn, N. Y.
Filed July 23, 1920. Serial No. 135,344. PUBLISHED JANUARY 18, 1921.

142,713. MANILA ROPE. THE PORTLAND CORDAGE CO., Portland, Oreg.
Filed July 13, 1920. Serial No. 134,910. PUBLISHED NOVEMBER 30, 1920.

142,714. HERNIAL TRUSSES. WILLIAM H. PREWIT, Brookford, N. C.
Filed June 10, 1920. Serial No. 133,556. PUBLISHED JANUARY 25, 1921.

142,715. CIGARS. WILLIAM F. PRIDE, Tampa, Fla.
Filed April 28, 1920. Serial No. 131,744. PUBLISHED JANUARY 18, 1921.

142,716. OLEOMARGARIN. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed September 10, 1920. Serial No. 137,040. PUBLISHED FEBRUARY 1, 1921.

142,717. OLEOMARGARIN. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed October 22, 1920. Serial No. 138,689. PUBLISHED JANUARY 25, 1921.

142,718. GUESSING GAME INVOLVING THE EMPLOYMENT OF THE SENSE OF SMELL. THE PORTER CHEMICAL COMPANY, Hagerstown, Md.
Filed June 9, 1920. Serial No. 133,494. PUBLISHED JANUARY 18, 1921.

142,719. GLASS REFLECTORS FOR ELECTRIC SIGNS. RADIO BULB COMPANY, INC., New York, N. Y.
Filed November 11, 1919. Serial No. 124,763. PUBLISHED FEBRUARY 1, 1921.

142,720. HATS AND CAPS FOR MEN. R AN W HAT SHOP, INC., Norwalk, Conn., and New York, N. Y.
Filed August 27, 1920. Serial No. 136,559. PUBLISHED JANUARY 25, 1921.

142,721. SOAPS AND CLEANSERS. THE RATH MANUFACTURING COMPANY, Philadelphia, Pa.
Filed November 27, 1920. Serial No. 140,351. PUBLISHED JANUARY 25, 1921.

142,722. CALCIMINE. THE REARDON COMPANY, St. Louis, Mo.
Filed September 15, 1920. Serial No. 137,239. PUBLISHED JANUARY 25, 1921.

142,723. LIQUID-FILTERS FOR COMMERCIAL, DOMESTIC, AND LABORATORY USES. THE REFINITE COMPANY, Omaha, Nebr.
Filed March 16, 1920. Serial No. 129,804. PUBLISHED OCTOBER 5, 1920.

142,724. CERTAIN NAMED MUSICAL INSTRUMENTS. REED & THOMPSON, San Francisco, Calif.
Filed August 24, 1920. Serial No. 136,429. PUBLISHED JANUARY 25, 1921.

142,725. LADIES' AND MISSES' DRESSES AND SKIRTS. THE REINHOLD COMPANY, Cleveland, Ohio.
Filed October 30, 1919. Serial No. 124,356. PUBLISHED FEBRUARY 1, 1921.

142,726. LAUNDRY-WASHING MACHINES. WILLIAM REMMERT, St. Louis, Mo.
Filed June 1, 1920. Serial No. 133,164. PUBLISHED NOVEMBER 2, 1920.

142,727. FLAT LEATHER BELTING. J. E. RHOADS & SONS, Philadelphia, Pa., and Wilmington, Del.
Filed September 27, 1920. Serial No. 137,679. PUBLISHED JANUARY 25, 1921.

142,728. MISSES' AND CHILDREN'S DRESSES, MIDDY-BLOUSES, AND LADIES' WAISTS. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed October 16, 1920. Serial No. 138,407. PUBLISHED JANUARY 25, 1921.

142,729. ENAMELED AND METALLIC BATHTUBS, LAVATORIES, AND SINKS. RICHMOND RADIATOR COMPANY, New York, N. Y.
Filed July 15, 1920. Serial No. 135,019. PUBLISHED FEBRUARY 1, 1921.

142,730. CERTAIN NAMED NON-ELECTRICAL HEATING AND COOKING APPARATUS AND ACCESSORIES THEREFOR. RICHMOND RADIATOR COMPANY, New York, N. Y.
Filed July 15, 1920. Serial No. 135,021. PUBLISHED FEBRUARY 1, 1921.

142,731. REFRIGERATORS. P. R. RINCONES JR. COMPANY, INC., New York, N. Y.
Filed July 16, 1920. Serial No. 135,063. PUBLISHED JANUARY 25, 1921.

142,732. CERTAIN NAMED MOTOR-CARS AND ACCESSORIES. A. V. ROE & CO. LIMITED, London, England.
Filed June 28, 1920. Serial No. 134,328. PUBLISHED JANUARY 25, 1921.

142,733. CERTAIN MUSICAL INSTRUMENTS—NAMELY, MUSIC-BOXES, TALKING-MACHINES, AND PHONOGRAPHS. LOUIS ROSENBLATT, St. Louis, Mo.
Filed March 16, 1920. Serial No. 129,806. PUBLISHED FEBRUARY 1, 1921.

142,734. BINDINGS OF COTTON, SILK, AND WOOL. HENRY S. ROSENTHAL, New York, N. Y.
Filed August 16, 1920. Serial No. 136,167. PUBLISHED FEBRUARY 1, 1921.

142,735. SEEDS, SHRUBS, PLANTS, TREES. WILLIAM B. ROSEVEAR, Jr., Detroit, Mich.
Filed July 21, 1920. Serial No. 135,251. PUBLISHED FEBRUARY 1, 1921.

142,736. WHEAT-FLOUR. THE ROUND HILL MILLING COMPANY, Round Hill, Va.
Filed August 3, 1920. Serial No. 135,763. PUBLISHED FEBRUARY 1, 1921.

142,737. SUSPENDERS, HOSE-SUPPORTERS, GARTERS, ELASTIC BRAIDS AND CORDS, DRESS AND WAIST BELTS, BINDINGS, TAPES, AND BASE-BALL AND CADET WEBS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,652. PUBLISHED FEBRUARY 1, 1921.

142,738. SUSPENDERS, HOSE-SUPPORTERS, GARTERS, ELASTIC BRAIDS AND CORDS, DRESS AND WAIST BELTS, BINDINGS, TAPES, AND BASEBALL AND CADET WEBS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,653. PUBLISHED FEBRUARY 1, 1921.

142,739. CHEWING-GUM. FLOYD R. PERKINS, Chicago, Ill.
Filed December 10, 1919. Serial No. 125,802. PUBLISHED FEBRUARY 1, 1921.

142,740. CORSETS. PARISIAN CLOAK CO., Kansas City, Mo.
Filed October 15, 1920. Serial No. 138,338. PUBLISHED JANUARY 18, 1921.

142,741. RIVET-SETS. RICH TOOL COMPANY, Chicago, Ill.
Filed October 15, 1920. Serial No. 138,341. PUBLISHED JANUARY 18, 1921.

142,742. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed May 6, 1920. Serial No. 132,123. PUBLISHED JANUARY 25, 1921.

142,743. CERTAIN AGRICULTURAL IMPLEMENTS AND PARTS THEREOF. SAMSON TRACTOR COMPANY, Janesville, Wis.
Filed September 2, 1920. Serial No. 136,769. PUBLISHED FEBRUARY 1, 1921.

142,744. DOLLS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed February 20, 1920. Serial No. 128,704. PUBLISHED DECEMBER 7, 1920.

142,745. HAIR-NETS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed September 2, 1920. Serial No. 136,770. PUBLISHED JANUARY 18, 1921.

142,746. PAPER FORKS. THE SANITARY PRODUCTS CORPORATION OF AMERICA, Philadelphia, Pa.
Filed June 14, 1920. Serial No. 133,684. PUBLISHED FEBRUARY 1, 1921.

142,747. PREPARED CLEANER FOR CARS, AUTOMOBILE-BODIES, AND THE LIKE. SAUNDERITE MANUFACTURING COMPANY, Denver, Colo.
Filed August 20, 1920. Serial No. 136,318. PUBLISHED FEBRUARY 1, 1921.

142,748. LADIES', MISSES', AND CHILDREN'S HATS. SAVANNAH MILLINERY & SUPPLY CO., Savannah, Ga.
Filed October 12, 1920. Serial No. 138,237. PUBLISHED JANUARY 18, 1921.

142,749. LAGER-BEER. ADAM SCHEIDT BREWING COMPANY, Norristown, Pa.
Filed December 13, 1919. Serial No. 125,977. PUBLISHED JUNE 29, 1920.

142,750. UNDERWAISTS. THE SCHREIBER-HOBAN COMPANY, Streator, Ill.
Filed August 2, 1920. Serial No. 135,738. PUBLISHED JANUARY 18, 1921.

142,751. PORTRAITS, SKETCHES, DRAWINGS, AND PAPER CUT-OUTS. BARON HENRY SCOTFORD, Atlantic City, N. J.
Filed November 26, 1920. Serial No. 140,212. PUBLISHED JANUARY 18, 1921.

142,752. CERTAIN ARTICLES OF CLOTHING. PETER SCOTT AND COMPANY LIMITED, Hawick, Scotland.
Filed August 12, 1920. Serial No. 136,038. PUBLISHED FEBRUARY 1, 1921.

142,753. OUTER SUITS AND TROUSERS FOR MEN AND BOYS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 8, 1920. Serial No. 138,104. PUBLISHED JANUARY 25, 1921.

142,754. GASOLENE-ENGINES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 8, 1920. Serial No. 138,105. PUBLISHED JANUARY 18, 1921.

142,755. SILK PIECE GOODS AND COTTON PIECE GOODS—VIZ., POPLINS. SEEKENEP SILK CO., INC., New York, N. Y.
Filed August 14, 1920. Serial No. 136,138. PUBLISHED JANUARY 25, 1921.

142,756. VALVES FOR INTERNAL-COMBUSTION ENGINES. SELF-SEATING VALVE COMPANY, Chicago, Ill.
Filed February 16, 1920. Serial No. 128,468. PUBLISHED APRIL 13, 1920.

142,757. FOOD-FLAVORING EXTRACTS—NAMELY, EXTRACT VANILLA. SEMRAD CHEMICAL CO., Chicago, Ill.
Filed May 25, 1920. Serial No. 132,949. PUBLISHED FEBRUARY 1, 1921.

142,758. RAINCOATS. C. B. SHANE CO., Chicago, Ill.
Filed October 7, 1920. Serial No. 138,065. PUBLISHED JANUARY 25, 1921.

142,759. TRACTORS. SHAW-ENOCHS TRACTOR COMPANY, Minneapolis, Minn.
Filed August 30, 1920. Serial No. 136,652. PUBLISHED FEBRUARY 1, 1921.

142,760. WRITING FLUIDS. W. A. SHEAFFER PEN CO., Fort Madison, Iowa.
Filed June 17, 1920. Serial No. 133,851. PUBLISHED FEBRUARY 1, 1921.

142,761. FRUIT CONSERVE. PAUL A. SHERIKJIAN, Holyoke, Mass.
Filed September 25, 1920. Serial No. 137,645. PUBLISHED JANUARY 18, 1921.

142,762. SLEDS. SHERWOOD BROS. MFG. CO. INC., Canastota, N. Y.
Filed June 5, 1920. Serial No. 133,331. PUBLISHED NOVEMBER 30, 1920.

142,763. PRINTING-INKS. SIGMUND ULLMAN CO., New York, N. Y.
Filed November 19, 1920. Serial No. 139,873. PUBLISHED JANUARY 25, 1921.

142,764. SLEEPING-GARMENTS. JACOB SILBERMAN, Stapleton, N. Y.
Filed August 13, 1920. Serial No. 136,099. PUBLISHED JANUARY 25, 1921.

142,765. PIPES AND CIGAR AND CIGARETTE HOLDERS. LOUIS SIMON, Toronto, Canada.
Filed October 17, 1919. Serial No. 123,907. PUBLISHED FEBRUARY 24, 1920.

142,766. SOAP OF PASTELIKE CONSISTENCY. THE SKAT COMPANY, Hartford, Conn.
Filed July 25, 1919. Serial No. 120,932. PUBLISHED FEBRUARY 1, 1921.

142,767. STOVE-POLISH. HYMAN SLATKIN, Baltimore, Md.
Filed December 7, 1920. Serial No. 140,757. PUBLISHED JANUARY 25, 1921.

142,768. MEMORANDUM-PADS, CALENDAR-PADS, AND PAD-STANDS. GEORGE W. SMITH, Chicago, Ill.
Filed September 4, 1920. Serial No. 136,856. PUBLISHED FEBRUARY 1, 1921.

142,769. CHILDREN'S KNITTED SLEEPING-GARMENTS. M. E. SMITH & CO., INC., Omaha, Nebr.
Filed October 8, 1920. Serial No. 138,101. PUBLISHED JANUARY 25, 1921.

142,770. BLACKINGS, POLISHES, AND DRESSINGS FOR ALL KINDS OF LEATHER ARTICLES AND METAL-POLISHES. SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France.
Filed May 17, 1919. Serial No. 118,613. PUBLISHED FEBRUARY 1, 1921.

142,771. DOOR-LOCKS, TRUNK-LOCKS, SAFE-LOCKS, PADLOCKS, LOCKS AND FASTENING DEVICES FOR DOORS AND WINDOWS. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,505. PUBLISHED OCTOBER 5, 1920.

142,772. HOUSE-FILTERS, COOLERS, REFRIGERATING APPARATUS, ICE-MAKING MACHINES, AND FREEZERS. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,507. PUBLISHED NOVEMBER 23, 1920.

142,773. CERTAIN DEVICE FOR USE IN WRITING. SORNIN & DISCRY, Etterbeek-Brussels, Belgium.
Filed June 28, 1920. Serial No. 134,334. PUBLISHED JANUARY 25, 1921.

142,774. MATTRESSES. SOUTHERN SPRING BED COMPANY, Atlanta, Ga.
Filed June 16, 1920. Serial No. 133,802. PUBLISHED JANUARY 4, 1921.

142,775. SOAP. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed August 17, 1920. Serial No. 136,207. PUBLISHED FEBRUARY 1, 1921.

142,776. WHEAT-FLOUR. STANDARD TILTON MILLING Co., St. Louis, Mo.
Filed September 15, 1920. Serial No. 137,243. PUBLISHED FEBRUARY 1, 1921.

142,777. CERTAIN NAMED SYRUPS FOR TABLE USE. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill.
Filed October 8, 1920. Serial No. 138,111. PUBLISHED JANUARY 18, 1921.

142,778. MALT BEVERAGES SOLD AS SOFT DRINKS. ELLIOTT STEINHAUSER, Watsonville, Calif.
Filed July 20, 1920. Serial No. 135,211. PUBLISHED JANUARY 18, 1921.

142,779. PLANT FOOD. EDWARD G. STEITZ, St. Louis, Mo.
Filed November 10, 1920. Serial No. 139,477. PUBLISHED JANUARY 25, 1921.

142,780. CIGARS. STODDARD, GILBERT & CO., INC., New Haven, Conn.
Filed June 24, 1920. Serial No. 134,148. PUBLISHED NOVEMBER 30, 1920.

142,781. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER OR TEXTILE MATERIAL. SLATER & MORRILL, INCORPORATED, South Braintree, Mass.
Filed July 23, 1920. Serial No. 135,351. PUBLISHED JANUARY 18, 1921.

142,782. LOCKS, KEYS AND PARTS THEREOF, STRIKE-PLATES, AND ESCUTCHEONS. SAMUEL R. SLAYMAKER, Lancaster, Pa., assignor to Fraim-Slaymaker Hardware Company, Lancaster, Pa., a Corporation of Pennsylvania.
Filed July 21, 1920. Serial No. 135,252. PUBLISHED JANUARY 25, 1921.

142,783. ELECTRIC MOTORS AND MOTOR-GENERATORS. ST. LOUIS ELECTRICAL WORKS, St. Louis, Mo., assignors to Valley Electric Company, Wilmington, Del., a Corporation of Delaware.
Filed September 11, 1920. Serial No. 137,095. PUBLISHED FEBRUARY 1, 1921.

142,784. FOOD SYRUPS AND PASTES USED IN COOKING. THE SUCOCO COMPANY, INCORPORATED, New York, N. Y., assignor to The Lowden Company, New York, N. Y., a Corporation of New York.
Filed September 13, 1920. Serial No. 137,150. PUBLISHED JANUARY 25, 1921.

142,785. CRYSTALLIZED AND LIQUID SWEETENING-SYRUP FOR FOOD PURPOSES. SUGOLA COMPANY OF AMERICA, New York, N. Y.
Filed July 16, 1920. Serial No. 135,079. PUBLISHED FEBRUARY 1, 1921.

142,786. CAMERAS. SUPER REFLEX COMPANY, Chicago, Ill.
Filed September 20, 1920. Serial No. 137,394. PUBLISHED JANUARY 25, 1921.

142,787. AUTOMOBILES. JOB R. SUTTERLY, Jr., Bridgeton, N. J.
Filed September 20, 1920. Serial No. 137,391. PUBLISHED JANUARY 25, 1921.

142,788. CANDY. SWEET CANDY COMPANY, Salt Lake City, Utah.
Filed November 1, 1920. Serial No. 139,054. PUBLISHED JANUARY 25, 1921.

142,789. LAUNDRY-WASHING MACHINES, IRONING-BOARDS, SKIRT-BOARDS, CLOTHES-PROPS, WASHBENCHES, AND WASHBOARDS. F. H. TAYLOR COMPANY, Philadelphia, Pa.
Filed October 4, 1919. Serial No. 123,465. PUBLISHED NOVEMBER 30, 1920.

142,790. OVERALLS, JUMPERS, AND WORK-SHIRTS. TEXTILE PRODUCTS MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 15, 1920. Serial No. 138,361. PUBLISHED JANUARY 18, 1921.

142,791. OVERALLS, JUMPERS, AND WORK-SHIRTS. TEXTILE PRODUCTS MANUFACTURING COMPANY, St. Louis, Mo.
Filed October 15, 1920. Serial No. 138,362. PUBLISHED JANUARY 18, 1921.

142,792. CLEANING COMPOUND FOR RUGS AND CARPETS. THOMAS A. THEARD, Indianapolis, Ind.
Filed November 17, 1919. Serial No. 125,037. PUBLISHED FEBRUARY 1, 1921.

142,793. CIGARS. JAMES G. D. THOMA, Cooperstown and New York, N. Y.
Filed July 1, 1920. Serial No. 134,491. PUBLISHED JANUARY 25, 1921.

142,794. CERTAIN PLUMBERS' SUPPLIES AND BATHROOM TRIMMINGS AND FITTINGS. THOMAS MADDOCK'S SONS CO., Trenton, N. J.
Filed August 17, 1920. Serial No. 136,213. PUBLISHED JANUARY 18, 1921.

142,795. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR — NAMELY, UNDERSHIRTS, UNDERDRAWERS, AND UNION-SUITS. TOPKIS BROS. CO., Wilmington, Del.
Filed August 27, 1920. Serial No. 136,573. PUBLISHED JANUARY 25, 1921.

142,796. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY AND KNITTED UNDERWEAR CONSISTING OF ONE AND TWO PIECE GARMENTS. E. M. TOWNSEND & CO., New York, N. Y.
Filed June 26, 1920. Serial No. 134,281. PUBLISHED FEBRUARY 1, 1921.

142,797. CERTAIN METALS, FORGINGS, AND CASTINGS AND IRON PLATES AND STEEL PLATES. THE TRI-STATE ENGINEERING CO., Zanesville, Ohio.
Filed March 15, 1920. Serial No. 129,756. PUBLISHED FEBRUARY 1, 1921.

142,798. SHOES MADE OF CANVAS AND LEATHER AND COMBINATION OF BOTH. TRUITT BROTHERS, INC., Binghamton, N. Y.
Filed September 27, 1920. Serial No. 137,686. PUBLISHED JANUARY 25, 1921.

142,799. ENAMEL PAINTS, UNDERCOATING IN THE NATURE OF PAINT, AND VARNISHES. TWIN CITY VARNISH CO., St. Paul, Minn., assignor to The Glidden Company, a Corporation of Ohio.
Filed October 8, 1919. Serial No. 123,562. PUBLISHED FEBRUARY 1, 1921.

142,800. LAUNDRY-WASHING MACHINES. TWIN WASHER MANUFACTURING COMPANY, St. Paul, Minn.
Filed May 15, 1920. Serial No. 132,494. PUBLISHED OCTOBER 12, 1920.

142,801. ALL VARIETIES OF CURED FISH, SALT FISH, AND CANNED FISH AND SHRIMP. JOHN S. TWOMBLY, Boston, Mass.
Filed December 8, 1919. Serial No. 125,731. PUBLISHED FEBRUARY 1, 1921.

142,802. PAINT-BRUSHES AND PAINTERS' DUSTERS. UNITED BRUSH MANUFACTORIES, New York, N. Y.
Filed April 19, 1919. Serial No. 117,627. PUBLISHED NOVEMBER 4, 1919.

142,803. CANDY. THE UNION CANDY COMPANY, Cincinnati, Ohio.
Filed September 27, 1920. Serial No. 137,688. PUBLISHED JANUARY 18, 1921.

142,804. POCKET-CUTLERY, RAZORS, SHEARS, AND BUTCHER-KNIVES. UNION CUTLERY CO., Olean, N. Y.
Filed April 17, 1920. Serial No. 131,289. PUBLISHED FEBRUARY 1, 1921.

142,805. ADHESIVE PASTE. UNITED DRUG COMPANY, Boston, Mass.
Filed July 12, 1920. Serial No. 134,865. PUBLISHED JANUARY 25, 1921.

142,806. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. UNITED KOLA BOTTLERS CORPORATION, Philadelphia, Pa.
Filed August 11, 1920. Serial No. 136,011. PUBLISHED FEBRUARY 1, 1921.

142,807. GEAR-SHIFTS. UNITED STATES AUTO GEAR SHIFT CO., Eau Claire, Wis.
Filed September 4, 1920. Serial No. 136,861. PUBLISHED FEBRUARY 1, 1921.

142,808. TRAVELING-BAGS AND PORTFOLIO-LIKE ENVELOPS MADE OF IMITATION LEATHER COMPOSED OF RUBBER AND FABRIC. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed March 18, 1920. Serial No. 129,909. PUBLISHED FEBRUARY 1, 1921.

142,809. DOLLS. UNITED STATES TENT & AWNING COMPANY, Chicago, Ill.
Filed August 18, 1919. Serial No. 121,796. PUBLISHED NOVEMBER 23, 1920.

142,810. SOAP. UNO MANUFACTURING COMPANY, Mobile, Ala.
Filed November 17, 1919. Serial No. 125,040. PUBLISHED FEBRUARY 1, 1921.

142,811. FOLDING MUSIC-ROLL HOLDERS WHICH CAN BE ATTACHED TO PIANOS, PLAYER-PIANOS, GRAND PIANOS, AND ELECTRICALLY-OPERATED PIANOS. GEORGE F. USBECK, New York, N. Y.
Filed August 10, 1920. Serial No. 135,981. PUBLISHED JANUARY 4, 1921.

142,812. COMBINATION-TOOLS OF THE PLIER TYPE. UTILITOOL COMPANY, Chicago, Ill.
Filed September 13, 1920. Serial No. 137,159. PUBLISHED FEBRUARY 1, 1921.

142,813. MEN'S, WOMEN'S, AND CHILDREN'S SWEATERS, COATS, SCARFS, CAPS, LEGGINGS, MITTENS, AND BOOTEES. MARK VANDEWART, New York, N. Y.
Filed September 21, 1920. Serial No. 137,436. PUBLISHED JANUARY 18, 1921.

142,814. OIL DRESSING AND PASTE FOR SOFTENING, PRESERVING, AND WATERPROOFING LEATHER AND ROPE. GEORGE A. VAN DYKE, New Brunswick, N. J.
Filed January 10, 1920. Serial No. 127,020. PUBLISHED FEBRUARY 1, 1921.

142,815. REEDS OF MUSICAL INSTRUMENTS, SUCH AS CLARINETS, SAXOPHONES, BASSOONS, AND FRENCH HORNS. MICHEL EUGÈNE VANDOREN, Paris, France.
Filed September 4, 1920. Serial No. 136,862. PUBLISHED FEBRUARY 1, 1921.

142,816. SHOE-POLISHES AND SHOE-DRESSINGS. VASSILATOS BROS., Chicago, Ill.
Filed November 26, 1920. Serial No. 140,224. PUBLISHED JANUARY 25, 1921.

142,817. CERTAIN NAMED ELECTRIC LAMPS, FIXTURES, AND PARTS. THE F. W. WAKEFIELD BRASS COMPANY, Vermilion, Ohio.
Filed September 10, 1920. Serial No. 137,053. PUBLISHED JANUARY 25, 1921.

142,818. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE, PORTABLE CIGARETTE-MAKERS, AND CIGARETTE-TUBES. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,092. PUBLISHED DECEMBER 14, 1920.

142,819. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE, PORTABLE CIGARETTE-MAKERS, AND CIGARETTE-TUBES. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,094. PUBLISHED DECEMBER 14, 1920.

142,820. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE AND PORTABLE CIGARETTE-MAKERS. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,095. PUBLISHED DECEMBER 7, 1920.

142,821. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE, PORTABLE CIGARETTE-MAKERS, AND CIGARETTE-TUBES. WALDES & CO., Prague, Bohemia.
Filed July 30, 1919. Serial No. 121,136. PUBLISHED NOVEMBER 30, 1920.

142,822. DRIED FRUIT—NAMELY, DRIED ITALIAN PRUNES AND PETITES AND SUGAR-PRUNES. WASHINGTON GROWERS PACKING CORPORATION, Vancouver, Wash.
Filed November 6, 1920. Serial No. 139,335. PUBLISHED JANUARY 25, 1921.

142,823. BOTH FERROUS AND NON-FERROUS METAL CASTINGS. WAYNE WORKS, Richmond, Ind.
Filed August 18, 1920. Serial No. 136,244. PUBLISHED JANUARY 18, 1921.

142,824. COMPOSITION FOR MAKING REFRACTORY DENTAL MODELS AND INVESTMENTS. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,758. PUBLISHED DECEMBER 14, 1920.

142,825. COMPOSITION FOR MAKING DENTAL MODELS AND FLASK INVESTMENTS FOR MOLDING VULCANITE. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,759. PUBLISHED DECEMBER 14, 1920.

142,826. COMPOSITION FOR MAKING DENTAL MODELS AND INVESTMENTS. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,760. PUBLISHED DECEMBER 21, 1920.

142,827. COMPOSITION FOR MAKING DENTAL MODELS AND INVESTMENTS. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,761. PUBLISHED DECEMBER 14, 1920.

142,828. COMPOSITION FOR MAKING HARD, REFRACTORY DENTAL MODELS AND INVESTMENTS. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,762. PUBLISHED DECEMBER 14, 1920.

142,829. COMPOSITION FOR MAKING REFRACTORY DENTAL INVESTMENTS. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,763. PUBLISHED DECEMBER 7, 1920.

142,830. COMPOSITION FOR MAKING REFRACTORY DENTAL INVESTMENTS. LOUIS J. WEINSTEIN, New York, N. Y.
Filed April 28, 1920. Serial No. 131,764. PUBLISHED DECEMBER 7, 1920.

142,831. TEA. DAVID WEISER, Philadelphia, Pa.
Filed November 10, 1920. Serial No. 139,489. PUBLISHED JANUARY 25, 1921.

142,832. JUVENILE TWO-WHEEL COASTING-VEHICLES. WESTFIELD MANUFACTURING COMPANY, Westfield, Mass.
Filed July 1, 1920. Serial No. 134,493. PUBLISHED NOVEMBER 2, 1920.

142,833. MIXED FEED COMPRISING MOLASSES, ALFALFA, HAY, AND GROUND GRAINS. WEST SIDE HAY & GRAIN CO., Evansville, Ind., assignors to John K. Jennings, doing business as Diamond Mills, Evansville, Ind.
Filed June 2, 1917. Serial No. 104,237. PUBLISHED FEBRUARY 1, 1921.

142,834. MEN'S AND BOYS' WORK-SUITS. WESTERN DRY GOODS COMPANY, Seattle, Wash.
Filed September 15, 1920. Serial No. 137,250. PUBLISHED JANUARY 18, 1921.

142,835. SAUSAGES. WESTERN SAUSAGE & PROVISION CO. INC., New York, N. Y.
Filed July 8, 1920. Serial No. 134,740. PUBLISHED FEBRUARY 1, 1921.

142,836. ROPE OF MANILA FIBER. WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y.
Filed June 2, 1920. Serial No. 133,194. PUBLISHED JANUARY 25, 1921.

142,837. MANILA ROPE. WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y.
Filed June 12, 1920. Serial No. 133,644. PUBLISHED NOVEMBER 30, 1920.

142,838. CHOCOLATE-COCOANUT BARS. CHARLES E. WHOWELL, Brooklyn, N. Y.
Filed October 20, 1920. Serial No. 138,617. PUBLISHED JANUARY 25, 1921.

142,839. SEAT PADS AND CUSHIONS. THE WIDNEY COMPANY, Chicago, Ill.
Filed June 7, 1920. Serial No. 133,388. PUBLISHED DECEMBER 7, 1920.

142,840. CERTAIN DESCRIBED LUNCHEON OUTFIT. WILDER MFG. CO. INC., Brooklyn, N. Y.
Filed July 31, 1920. Serial No. 135,678. PUBLISHED NOVEMBER 16, 1920.

142,841. CANDY. WILLIAMS CHOCOLATE CO., Scranton, Pa.
Filed November 18, 1920. Serial No. 139,824. PUBLISHED JANUARY 25, 1921.

142,842. GAMES COMPRISING PIECES AND A GAME-BOARD. WILLIAM J. TONKIN, Ridgewood, N. J.
Filed May 12, 1920. Serial No. 132,371. PUBLISHED NOVEMBER 16, 1920.

142,843. WRITING-INK. M. J. WILSON, Gosport, Ind.
Filed July 7, 1920. Serial No. 134,686. PUBLISHED JANUARY 25, 1921.

142,844. FEED FOR HORSES, MULES, HOGS, POULTRY, AND DAIRY-CATTLE. JOHN M. WILSON, Meridian, Miss.
Filed September 25, 1920. Serial No. 137,648. PUBLISHED FEBRUARY 1, 1921.

142,845. LAUNDRY-WASHING MACHINES, WRINGERS, AND PARTS THEREOF. WIN-HER WASHER COMPANY, Des Moines, Iowa.
Filed August 18, 1919. Serial No. 121,799. PUBLISHED APRIL 6, 1920.

142,846. STRING, TWINE, CORD, EXCLUSIVE OF ELASTIC RUBBER CORD, AND VEGETABLE-FIBER ROPE. D. P. WINNE CO. INCORPORATED, New York, N. Y.
Filed August 13, 1920. Serial No. 136,107. PUBLISHED FEBRUARY 1, 1921.

142,847. ELECTRIC HEATING-PADS FOR PERSONAL USE. WIRT COMPANY, Philadelphia, Pa.
Filed December 22, 1917. Serial No. 108,111. PUBLISHED DECEMBER 28, 1920.

142,848. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. THE WOLFSON COMPANY, Chicago, Ill.
Filed July 16, 1920. Serial No. 135,087. PUBLISHED FEBRUARY 1, 1921.

142,849. LEATHER SUBSTITUTE, A MANUFACTURED OR ARTIFICIAL LEATHER. WOODWARD & COCHRY, INC., Lynn, Mass.
Filed July 20, 1920. Serial No. 135,218. PUBLISHED JANUARY 25, 1921.

142,850. CERTAIN NAMED SASH FASTS, LOCKS, AND PARTS THEREOF, FASTENERS, CATCHES, BOLTS, SETS, LATCHES, TURNS, AND KEYS. THE YALE & TOWNE MFG. CO., Stamford, Conn.
Filed April 12, 1920. Serial No. 131,054. PUBLISHED NOVEMBER 2, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

MAY 17, 1921.

142,851. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ALLEN CORPORATION, New York, N. Y. Filed Jan. 28, 1920. Serial No. 127,673.

PRONTO

Particular description of goods.—Hand Fire-Extinguishers.
Claims use since Sept. 15, 1919.

142,852. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN BORON PRODUCTS COMPANY INC., Reading, Pa. Filed Jan. 8, 1921. Serial No. 141,961.

BORONIC

Particular description of goods.—Ferrous and Non-Ferrous Metal Alloys.
Claims use since August, 1916.

142,853. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN BORON PRODUCTS COMPANY INC., Reading, Pa. Filed Jan. 8, 1921. Serial No. 141,962.

BORON

Particular description of goods.—Ferrous and Non-Ferrous Metal Alloys.
Claims use since August, 1916.

142,854. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed June 17, 1920. Serial No. 133,815.

U. S. V ELECTRICAL

Particular description of goods.—Iron and Steel Sheets and Plates and Tin and Terne Plates.
Claims use since Jan. 10, 1905.

142,855. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed Dec. 13, 1920. Serial No. 140,979.

AMERICAN

Particular description of goods.—Rolled Iron and Steel Sheets and Plates, Tin and Terne Plates.
Claims use since 1899.

142,856. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Feb. 3, 1921. Serial No. 143,113.

CHAMBRAY
BOOKFOLD

Particular description of goods.—Cotton Piece Goods.
Claims use since 1908.

142,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed Mar. 5, 1920. Serial No. 129,253½.

NUT-ALL

Particular description of goods.—Oleomargarin.
Claims use since Jan. 10, 1920.

142,858. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BELTRAIL TRACTOR COMPANY, St. Paul, Minn. Filed Sept. 12, 1918. Serial No. 113,138.

Belt-Rail

Particular description of goods.—Farm-Tractors.
Claims use since Apr. 24, 1918.

142,859. (CLASS 39. CLOTHING.) BLOGG & LITTAUER, New York, N. Y. Filed Dec. 20, 1920. Serial No. 141,291.

STYLISH STOUT

Particular description of goods.—Cloaks, Suits, and Evening-Wraps for Women.
Claims use since Mar. 15, 1917.

142,860. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,950.

ENGLISH KID PASTED BRISTOL

Particular description of goods.—Bristol-Board.
Claims use since 1913.

142,861. (CLASS 39. CLOTHING.) JOSEPH F. BYRNE, Omaha, Nebr. Filed June 7, 1919. Serial No. 119,289.

Madison

Particular description of goods.—Underwear for Men, Women, and Children.
Claims use since Jan. 25, 1919.

142,862. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAPIN-SACKS CORPORATION, Washington, D. C., and Richmond, Va. Filed Feb. 7, 1921. Serial No. 143,259.

"The Velvet Kind"
CREAM OF ICE CREAMS

Particular description of goods.—Ice-Cream.
Claims use since 1913.

142,863. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) DETROIT BEVERAGE COMPANY, Detroit, Mich. Filed Nov. 1, 1920. Serial No. 139,025.

Oldbru

Particular description of goods.—Malt Beverages Containing Less Than One-Half of One Per Cent. Alcohol, by Volume.
Claims use since Mar. 25, 1920.

142,864. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa. Filed Jan. 7, 1921. Serial No. 141,945.

INTERLOCK

Particular description of goods.—Saws.
Claims use since Apr. 10, 1915.

142,865. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa. Filed Jan. 7, 1921. Serial No. 141,946.

BUZZ

Particular description of goods.—Saws.
Claims use since Mar. 10, 1910.

142,866. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DUPLEX PRINTING PRESS CO., Battle Creek, Mich. Filed Nov. 19, 1920. Serial No. 139,851.

"TUBULAR"

Particular description of goods.—Rotary Printing-Presses, Stereotype-Casting Boxes, and Stereotype-Plate-Trimming Mechanism.
Claims use since Aug. 16, 1906.

142,867. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) J. P. EUSTIS MANUFACTURING COMPANY, Cambridge, Mass. Filed Aug. 24, 1920. Serial No. 136,405.

CONCHA-HEAD

Particular description of goods.—Fastenings Comprising Screws and Bolts.
Claims use since February, 1919.

142,868. (CLASS 32. FURNITURE AND UPHOLSTERY.) FOND DU LAC BEDDING CO., Fond du Lac, Wis. Filed Jan. 26, 1920. Serial No. 127,588.

Just-Write

Particular description of goods.—Mattresses and Pillows.
Claims use since Jan. 12, 1920.

142,869. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) J. FREDERICK PALMER MFG. CO., Milwaukee, Wis. Filed Oct. 28, 1920. Serial No. 138,921.

NO WASTE

Particular description of goods.—Toilet-Paper Fixtures.
Claims use since July 20, 1918.

142,870. (CLASS 12. CONSTRUCTION MATERIALS.) GEO. S. GOOD FIRE BRICK CO., Patton, Pa. Filed Oct. 3, 1918. Serial No. 113,558.

LUMBER CITY

Particular description of goods.—Fire-Bricks and Paving-Blocks.
Claims use since May, 1908.

142,871. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. HAAS & SONS, San Francisco, Calif. Filed Feb. 9, 1921. Serial No. 143,354.

Home-Made Specials

Particular description of goods.—Candies.
Claims use since Jan. 1, 1912.

142,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. HAAS & SONS, San Francisco, Calif. Filed Feb. 9, 1921. Serial No. 143,355.

Buttercup Taffies

Particular description of goods.—Taffy Candies.
Claims use since July, 1905.

142,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. HAAS & SONS, San Francisco, Calif. Filed Feb. 9, 1921. Serial No. 143,356.

Variety Mints

Particular description of goods.—Candies.
Claims use since May 6, 1913.

142,874. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ROBERT D. HAMILTON, Savannah, Ga. Filed Feb. 10, 1920. Serial No. 128,208.

Apl-Cola

Particular description of goods.—Non-Alcoholic Fruit Drink and Syrup for Making the Same.
Claims use since Jan. 26, 1920.

142,875. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Feb. 3, 1921. Serial No. 143,127.

Heddon's Dowagiac

Particular description of goods.—Bamboo Casting-Rods, Artificial Wooden Minnows, and Casting-Reels.
Claims use since January, 1899.

142,876. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HAROLD HELBIG, Washington, D. C. Filed Dec. 15, 1920. Serial No. 141,103.

PIANO SHINE

Particular description of goods.—A Polish Which Acts as a Cleanser for Pianos, Phonographs, and Furniture.
Claims use since November, 1919.

142,877. (CLASS 39. CLOTHING.) I. HELLER & CO. INC., New York, N. Y. Filed Dec. 20, 1920. Serial No. 141,311.

STYLISH STOUT

Particular description of goods.—Ladies' Dresses and Costumes.
Claims use since Mar. 15, 1917.

142,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK HURWITZ, Baltimore, Md. Filed Nov. 18, 1920. Serial No. 139,799.

CREAMERY

Particular description of goods.—Butter and Cheese.
Claims use since the fall of 1915.

142,879. (CLASS 12. CONSTRUCTION MATERIALS.) INGALLS STONE COMPANY, Bedford, Ind. Filed Sept. 8, 1920. Serial No. 136,945.

STONE WROUGHT BY THE MASTER HAND

Particular description of goods.—Cut Stone for Building Purposes.
Claims use since January, 1920.

142,880. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MARTIN R. JACOBUS, New York, N. Y. Filed Feb. 15, 1921. Serial No. 143,609.

WASTE-NOT

Particular description of goods.—Feed-Hoppers.
Claims use since Aug. 10, 1916.

142,881. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE KREEM-EZE COMPANY, Roseville, Calif. Filed Feb. 1, 1921. Serial No. 143,050.



Particular description of goods.—Shaving-Cream Used as a Substitute for Shaving-Soap.
Claims use since Mar. 15, 1916.

142,882. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LINDSBORG MILLING & ELEVATOR CO., Lindsborg, Kans. Filed Mar. 1, 1921. Serial No. 144,194.



Particular description of goods.—Kansas Hard-Wheat Flour.
Claims use since Aug. 7, 1907.

142,883. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Feb. 2, 1921. Serial No. 143,099.

BLUE-EST

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1919.

142,884. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Feb. 2, 1921. Serial No. 143,100.

BLACK-EST

Particular description of goods.—Silk Piece Goods.
Claims use since August, 1919.

142,885. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. A. MIGEL, INC., New York, N. Y. Filed Apr. 2, 1920. Serial No. 130,545.

HINDU

Particular description of goods.—Tooth-Powder, Face-Cream, Hair-Tonic, Shaving-Cream, a Cold-Cream for Use After Shaving, Toilet Water, and Hand-Lotion.
Claims use since August, 1918.

142,886. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed Apr. 2, 1920. Serial No. 130,546.

HINDU

Particular description of goods.—Women's Dresses, Suits, Waists, Petticoats, Brassières, Corset-Covers, Corset-Waists, Union-Suits, Underwear, Combinations, Nightgowns, Bloomers, Chemises, and Trimmed Hats; Children's Hats, Dresses, Suits, Rompers, and Underwear, and Men's Silk Shirts, Pajamas, Nightgowns, and Underwear, and Men's and Women's Neckties and Scarfs, the Underwear and Union-Suits Referred to Being Made of Textile Fabrics.
Claims use since September, 1918.

142,887. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) J. A. MIGEL, INC., New York, N. Y. Filed Feb. 13, 1920. Serial No. 128,356.

HINDU

Particular description of goods.—Parasols and Umbrellas.
Claims use since August, 1918.

142,888. (CLASS 37. PAPER AND STATIONERY.) MILLERS FALLS PAPER COMPANY, Millers Falls, Mass. Filed Dec. 8, 1920. Serial No. 140,798.

OLD DEERFIELD BOND

Particular description of goods.—Printing and Writing Papers.
Claims use since Aug. 30, 1905.

142,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OZARK CIDER & VINEGAR COMPANY, Rogers, Ark. Filed Feb. 23, 1921. Serial No. 143,944.

OZARK

Particular description of goods.—Cider Vinegar.
Claims use since Feb. 19, 1912.

142,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAPENDICK BAKERY CO., St. Louis, Mo. Filed Mar. 7, 1921. Serial No. 144,414.

DELICATESSEN

Particular description of goods.—Bread.
Claims use since Feb. 1, 1915.

142,891. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. A. PATRICK & CO., Duluth, Minn. Filed Jan. 5, 1921. Serial No. 141,877.

Mankato DULUTH

Particular description of goods.—Bureau-Scarfs, Table-Scarfs, Fabric Blankets, Textile Mats, and Piece Goods Made of Either or Both of the Following Materials, Namely: Cotton and Wool.
Claims use since Jan. 1, 1912.

142,892. (CLASS 17. TOBACCO PRODUCTS.) PIEDMONT TOBACCO CO. INC., Danville, Va. Filed Sept. 9, 1920. Serial No. 136,995.



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since 1911.

142,893. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PORTABLE MACHINERY COMPANY INC., Clifton, N. J. Filed Feb. 19, 1921. Serial No. 143,833.

THE SCOOP

Particular description of goods.—Conveyer-Machines.
Claims use since Jan. 1, 1916.

142,894. (CLASS 37. PAPER AND STATIONERY.) POWERS PAPER COMPANY, Springfield, Mass. Filed Jan. 21, 1921. Serial No. 142,567.

SHETLAND

Particular description of goods.—Papeteries, Writing-Tablets, Mailing-Envelops, and Writing-Paper.
Claims use since 1906.

142,895. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROMAN MEAL COMPANY, North Tonawanda, N. Y. Filed Jan. 22, 1921. Serial No. 142,672.



Particular description of goods.—A Cereal Compound Intended to be Taken at Meals for Its Nutritive, Digestive, and Therapeutic Properties.
Claims use since the fall of 1913.

142,896. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SAFETY FIRE EXTINGUISHER CO., New York, N. Y. Filed Aug. 6, 1920. Serial No. 135,867.



Particular description of goods.—Mechanical Fire-Extinguishers.
Claims use since April, 1910.

142,897. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHAFER BAKERY, INC., Savannah, Ga. Filed Feb. 26, 1921. Serial No. 144,107.

"The Bread Thats Way Ahead"

Particular description of goods.—Bread.
Claims use since Feb. 11, 1920.

142,898. (CLASS 39. CLOTHING.) SHAFT-PIERCE SHOE CO., Faribault, Minn. Filed Sept. 10, 1920. Serial No. 137,044.

DOUBLE WELT

Particular description of goods.—Fabric, Rubber, Rubber Composition, and Leather Shoes.
Claims use since March, 1917.

142,899. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS W. SIMMONS COMPANY, San Francisco, Calif. Filed Oct. 11, 1920. Serial No. 138,189.

SIMMONS

Particular description of goods.—Bichromate of Soda, Sulfid of Carbon, Chlorid of Lime, Zinc Oxid, Caustic Soda, Sal-Ammoniac, Borax, Sulfur, Potassium Bichromate, Soda-Ash, Ammonia, Potash, Silicate of Soda, Hypo Sulfite.
Claims use since Sept. 11, 1918.

142,900. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. D. SMITH & COMPANY, Plantsville, Conn. Filed Dec. 13, 1920. Serial No. 141,041.

"SharpenEzy"

Particular description of goods.—Cold-Chisels, Cape-Chisels, Nail-Sets, and Punches.
Claims use since January, 1910.

142,901. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RENA WALKER THAYER, Adams, Mass. Filed Aug. 31, 1920. Serial No. 136,691.

LOCKS-EM-TITE

Particular description of goods.—Hair-Locking Attachments for Barrettes.
Claims use since August, 1919.

142,902. (CLASS 38. PRINTS AND PUBLICATIONS.) TOLMAN PRINT INC., Brockton, Mass. Filed July 14, 1920. Serial No. 134,989.

Tolman Advertising "MAKES GOOD"

Particular description of goods.—Advertising Literature—Namely, Post-Cards, Posters, Broadsides, Folders, Printed Signs, Completely-Printed Labels, Tags, and Cards, Novelty Died-Out Tickets, Booklets, Pamphlets, Catalogues.
Claims use since Apr. 1, 1912.

142,903. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE VITREOUS ENAMELING COMPANY, Cleveland, Ohio. Filed Apr. 14, 1920. Serial No. 131,137.

VITREOUS

Particular description of goods.—Metal Trays and Pans for Baking, Drying, and Culinary Purposes and for Use in Industrial Plants in the Manufacture of Commercial Products.
Claims use since Feb. 23, 1920.

142,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WENATCHEE MILLING CO., Wenatchee, Wash. Filed Sept. 16, 1920. Serial No. 137,277.

WENATCHEE'S BEST

Particular description of goods.—Wheat-Flour.
Claims use since 1907.

142,905. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WHITE FLAME LIGHT CO., Grand Rapids, Mich. Filed Mar. 11, 1921. Serial No. 144,655.

WHITE FLAME

Particular description of goods.—Lamp-Burners.
Claims use since August, 1910.

142,906. (CLASS 39. CLOTHING.) PHILIP WHITE, Philadelphia, Pa. Filed Apr. 13, 1918. Serial No. 110,190.

GOODWEAR

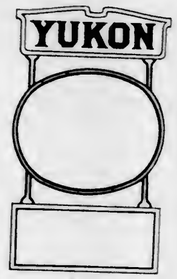
Particular description of goods.—Sweaters.
Claims use since about March, 1918.

142,907. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE D. T. WILLIAMS VALVE COMPANY, Cincinnati, Ohio. Filed Dec. 27, 1920. Serial No. 141,544.

WILLIAMS

Particular description of goods.—Gate-Valves, Gage-Cocks, Globe-Valves, Angle-Valves, Cross-Valves, Check-Valves, Hydraulic Valves, Needle-Valves, Radiator-Valves, Hose-Valves, Generator-Valves, Whistle-Valves, Blow-Off Valves, Swing Check-Valves, Throttle-Valves; Stopcocks for Air, Steam, Gas, and Gasolene; Swivel-Cocks, Packed Plug-Cocks, Three-Way Cocks, Swivel-Couplings, Expansion-Joints, Unions, Elbows, T's, Crosses, Return-Bends, Flanges, Fusible Plugs, and Hose-Nipples.
Claims use since April, 1905.

142,908. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YUKON MILL & GRAIN CO., Yukon, Okla. Filed Feb. 26, 1921. Serial No. 144,118.



Particular description of goods.—Pearl-Hominy, Pancake-Flour, Breakfast Food, Wheat-Nuts, Cream-Meal, Golden Cream-Meal, Hominy-Grits, Wheat-Bran, Whole-Wheat Flour, and Pure Wheat Graham, Sweets of Wheat.
Claims use since 1902.

LABELS

REGISTERED MAY 17, 1921.

22,890.—*Title:* "BLEHER CONCENTRATED LINIMENT." (For a Liniment Known as Bleher Concentrated Liniment.) BLEHER-MARMON MANUFACTURING CO., Lima, Ohio. Filed September 22, 1919.

22,891.—*Title:* "THE MARVELOUS EYE WASH." (For Eye-Wash.) R. M. LA ROCK, Rutland, Vt. Filed July 3, 1920.

22,892.—*Title:* "SWEETENED CONDENSED MILK JERSEY BRAND." (For Cans and Containers in Which Such Product is Sold.) LITTLE FALLS DAIRY CO. INC., Little Falls, N. Y. Filed August 18, 1920.

PRINTS

REGISTERED MAY 17, 1921.

5,595.—*Title:* "GOODYEAR BELTS GIVE GOOD WEAR." (For Advertising Purposes for Rubber Belting.) THE GOODYEAR TIRE & RUBBER CO., Akron, Ohio. Filed May 31, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

WHITE *v.* COTTRELL.

Decided February 7, 1921.

1. PATENTS—INTERFERENCE CLAIMS TO BE READ IN LIGHT OF APPLICATION FROM WHICH TAKEN.

So far as the issue claims in an interference proceeding are taken from one of the parties, they must be read in the light of his application.

2. SAME—"GRIPPER," AS USED IN INTERFERENCE CLAIMS, DEFINED.

A "gripper," as used in issue claims in an interference proceeding involving sheet-feeding mechanism for printing-presses, is a device which takes hold of or grips and indicates something capable of a clamping action, and a party who has nothing of this character is not entitled to the claims calling for grippers.

Mr. L. T. Greist and *Mr. W. N. Cromwell* for White.

Mr. W. F. Rogers for Cottrell.

SMYTH, *C. J.:*

White contends that he is entitled to priority over Cottrell in an interference relating to improvements in mechanism for feeding material in sheet form to a printing-press. The issue originally involved thirty-six claims, three of which were awarded by the Commissioner to White, and the remainder to Cottrell. White appeals as to the claims denied him. Claims 1, 2, 9 and 36 are illustrative of the others.

1. A sheet feeding mechanism for printing presses comprising endless means traveling in a partly circular and partly non-circular path for feeding the sheets to the press and devices carried by the sheet feeding means for bringing the sheets into both end and side register with respect to the printing form while they are in motion.

2. A sheet feeding mechanism for printing presses comprising endless means traveling in a partly circular and partly non-circular path for feeding the sheets to the press and devices carried by the sheet feeding means for bringing the sheets into both end and side register with respect to the printing form while they are in motion, and maintaining control of the sheets until they are brought under the control of the press.

9. A sheet feeding mechanism for printing presses comprising an endless carrier traveling in a partly circular and partly non-circular path having both a sheet stop for end registering the sheet and side grippers for engaging the side edges of the sheet.

36. In a sheet handling and registering mechanism, a preliminary feeding means traveling faster than the impression cylinder, moving front stops against which the sheet is registered by the preliminary feeding means, a second feeding means taking the sheet from the preliminary feeding means and traveling at the speed of the impression cylinder and means for moving the second feeding means sidewise to side register the sheet.

White's right to make the claims is the gravamen of the case, for there is no question as to his priority as to the subject-matter if he can make the claims. The Law Examiner held with White as to all the claims. The Examiner of Interferences agreed with him. The Examiners-in-Chief reversed the Examiner of Interferences as to claims 9 to 26, inclusive, and affirmed him as to the remainder. The First Assistant Commissioner affirmed the Examiners-in-Chief as to claims 9 to 26 and 33, 34 and 35, and reversed them as to the others.

The issue claims are largely taken from Cottrell, and so far as they are, must be read in the light of his application, (*Podlesak* v. *McInnerney*, 26 App. D. C., 399; *Sobey* v. *Holsclaw*, 28 App. D. C., 65.) Claims 9 to 26 inclusive call for grippers. A gripper is a device which takes hold of—grips. It indicates something capable of a clamping action. The Examiners-in-Chief analyze the testimony quite fully and point out that White has nothing which responds to this element. His gages, they say, are not grippers in a strict sense, or in the sense in which Cottrell employs that term in his application. We think they are right. We also agree with them in awarding to White claims 1 to 8 inclusive and 27 to 36 inclusive. These claims refer to "endless means" or—

> endless sheet carrier • • • for feeding the sheets to the press,

or devices carried thereby "for side registering the sheets" and—

> maintaining control of the sheets until they are brought under the control of the press,

or "laterally adjustable means" of such character. The Examiners-in-Chief held that White's intermediate mechanism may be termed a feeding means or carrier in the same sense as Cottrell's. Other reasons are adduced by them. We think their reasoning meets every point raised by Cottrell. We concur in it. Therefore the decision of the Commissioner of Patents is reversed as to claims 1 to 8 inclusive, 27 to 32 inclusive, and 36, and is affirmed as to the other claims of the issue.

Modified.

Nolan Act—Reciprocity of Swedish Laws Recognized.

(ORDER NO. 2,659.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 18, 1921.

Notice is hereby given that the laws of Sweden are recognized as affording to citizens of the United States privileges

substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be accorded to its subjects, subject to a limitation of the term under section 2 of the act, as construed in *ex parte Hackett*, (285 O. G., 795.)

THOMAS E. ROBERTSON,
Commissioner.

Notice Relating to Printed Specifications of Patents Granted Under the Nolan Act.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 18, 1921.

A portion of Order No. 2,657 is hereby published for the information of those concerned. The object of the order is to carry into the heading of the printed specifications of patents taking the benefits of the Nolan Act of March 3, 1921, a notice that they are granted in accordance with the provisions of said act, and directions to this effect have been given to the officer charged with the supervision of the printing of patent specifications.

THOMAS E. ROBERTSON,
Commissioner.

(ORDER No. 2,657.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 16, 1921.

In all cases which are allowable only by reason of their taking the benefits of the Nolan Act of March 3, 1921, and in the file-wrapper of which a statement has been placed signed by the Law Examiner according the applicant the benefits of the act, the Primary Examiner will place on the side of the file-wrapper where the printed words "Division of App., No. ———, filed ————————, 191—" occur, the following notation: (Granted under the provisions of the act of March 3, 1921, 41 Stat. L., 1313.)

* * * * * * * *

THOMAS E. ROBERTSON,
Commissioner.

Disclaimer.

1,330,876.—*William H. Krug*, Fond du Lac, Wis. MEANS FOR SECURING ANTISKID-CHAINS TO VEHICLE-WHEELS. Patent dated February 17, 1920. Disclaimer filed May 16, 1921, by the patentee.

Hereby enters this disclaimer—

"To those parts of claims 6 and 10 of said patent which are in the following words: 'a bar having an edgewise offset end portion' except where the edgewise offset end portion provides a clearance-space between it and the felly of the wheel, to which said bar is secured, for the passage of a portion of an antiskid-chain; and further enters this disclaimer to those parts of claims 7 and 8 which are, respectively, in the following words: 'a bar having an end portion provided with an opening' and 'one end of said bar having an opening formed therein,' except where said opening is used for securing one end of an antiskid-chain."

International Arrangement for the Creation of a Central Patent Bureau.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 18, 1921.

The text of the International Arrangement for the Creation of a Central Patent Bureau, signed at Paris on November 15, 1920, together with the letter of the Ministry for Foreign Affairs of the French Republic transmitting a copy thereof to the American Embassy at Paris, is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

[Inclosure No. 3 in despatch No. 2,115.]

FRENCH REPUBLIC. MINISTRY FOR FOREIGN AFFAIRS. DEPARTMENT OF ADMINISTRATIVE AND TECHNICAL AFFAIRS. SUBDIVISION OF ADMINISTRATIVE AFFAIRS AND INTERNATIONAL UNIONS.

PARIS, *January 26, 1921.*

Referring to a note dated October 27th last, the Ministry for Foreign Affairs has the honor to transmit herewith to the Embassy of the United States an authenticated copy of the international agreement signed at Paris on November 15, 1920, with a view to creating a central office of patent applications. As this agreement may be signed until May 31, 1921, it is probable that all the contracting States will have subscribed their signatures thereto by that date.

The French Government would see with the greatest interest the adherence of the Government of the United States to this agreement. There is no doubt but that the other contracting countries will share its views on this point. If the Government of the United States so desires, the Ministry for Foreign Affairs will be very glad to call forth on this subject the declarations of the Governments of all the signatory countries.

EMBASSY OF THE UNITED STATES AT PARIS.

[Inclosure No. 4 in despatch No. 2,115.]

INTERNATIONAL ARRANGEMENT FOR THE CREATION OF A CENTRAL PATENT BUREAU.

Concluded between Belgium, Brazil, the Republic of Cuba, Ecuador, France, Greece, the Republic of Haiti, Japan, the Republic of Liberia, the Republic of Nicaragua, the Republic of Panama, Peru, Poland, Portugal, Roumania, the Kingdom of the Serbs, Croats, and Slovenes, Siam, the Republic of Czechoslovakia, and Uruguay.

The undersigned plenipotentiaries of the countries enumerated above, having united in conference at Paris, have agreed upon the following provisions:

ARTICLE 1.

The contracting countries agree to establish at their joint expense an International Central Patent Bureau.

The seat of this office is fixed at Brussels.

ARTICLE 2.

The International Central Patent Bureau may undertake:

1. The international filing of applications for patents, that is to say, the receipt of applications and the international transmission of the same;

2. The examination of applications for patents.

The operations of the Central Bureau shall be governed by the provisions hereinafter.

TITLE I.

International filing of applications for patents.

ARTICLE 3.

The citizens or subjects of any of the contracting countries who have duly filed an application for a patent in one of these countries may demand the protection of the invention in all the other countries or in one or more of them by filing the application in the Central Bureau at Brussels through the administrative authorities of the country of origin of such application.

ARTICLE 4.

Persons who are citizens or subjects of countries which have not adhered to the present arrangement but who are domiciled in or have industrial or commercial establishments of a substantial character and in actual operation in the territory of one of the countries of the union formed by the present arrangement shall be treated as citizens or subjects of the contracting countries.

ARTICLE 5.

The Central Bureau shall immediately inscribe on a special register the applications filed according to article 3, making note of the description and drawings appended to each application.

It shall give notice of this inscription to the proper departments of all the contracting countries.

On and after the date of receipt of the application for international registration made by the administration of the country of origin the legal status of the applicant in each of the contracting countries mentioned in the application, or which may be mentioned not later than

twelve months after the filing of the application in the country of origin, shall be the same as if the application, description, and drawings had been directly filed there.

However, in countries whose internal legislation so requires, the application shall not be considered as validly made unless all the papers in the case have reached the administration of these countries within twelve months from the date of filing of the application in the country of origin.

ARTICLE 6.

The Central Bureau shall, if necessary, make a translation of the descriptions into the official language of the Bureau or into the languages of the various countries mentioned by the applicants, and reproduce the drawings in sufficient number to enable the applications and the documents appended thereto to be communicated to each of the administrations of the contracting countries for which international registration shall have been requested.

Each of the contracting countries shall have a right to require the production of a copy of the description written in the official language of the Bureau or of a translation of the description in that language, made, or verified and certified by the Central Bureau.

The remuneration due from the applicant to the Central Bureau for a translation or for the verification of a translation (which remuneration may vary according to the language) and the schedule of charges for the reproduction of drawings shall be fixed in the executory regulations.

Applications transmitted to the administrations of the contracting countries shall be subject in each country to the same conditions as applications which have been filed there directly, and such action shall be taken on them as is authorized by the legislation of the country.

ARTICLE 7.

The administration of the country of origin may fix at will and collect on its own behalf a fee from the applicant for a patent whose international registration is requested. In any case, there shall be collected for the benefit of the Central Bureau an international fee the amount of which shall be prescribed in the enforcement regulations.

In each country to which the application for a patent has been transmitted, the interested party shall be obliged, in order that action may be taken upon the application and in order to secure issuance of the patent and preserve all rights pertaining thereto, to pay within the period prescribed all fees provided for this purpose by the laws and regulations of the country.

The Central Bureau shall be authorized to undertake, on account of the interested parties, the payment of the fees in the contracting countries in consideration of a special fee according to the rates fixed in the executory regulations.

TITLE II.

Examination of applications for patents.

ARTICLE 8.

Any patent application filed in one of the contracting countries, either directly or through international registration, may or must, according to the provisions of the legislation of such country, be submitted to the examination of the Central Bureau for purposes of investigation and verification as to whether there exist any prior claims based either on patents already issued and published or on publications to be specified in the executory regulations.

ARTICLE 9.

When the investigations made by the Central Bureau do not result in the discovery of any prior claim which might be asserted against the claims of originality presented in the description accompanying the patent application, the Central Bureau shall deliver a "certificate of absence of prior claims."

When prior claims of this kind have been discovered, the Central Bureau shall deliver a "provisional statement of prior claims," enumerating the latter specifically.

The result of the examination made by the Central Bureau shall be transmitted, in the manner provided for above, in the language of the original application and in the official language of the Bureau, to the administration of the country of origin, and, with a view to the issuance of a patent applied for, to the administrations of the other contracting countries designated by the inventor or to such administrations as may have requested this transmission of the Bureau.

The administration of the country of origin shall attend to transmitting it to the inventor.

ARTICLE 10.

From the date of the communication of a "provisional statement of prior claims" by the administration of the country of origin to the inventor the latter shall be granted a period, to be determined in conformity with the enforcement regulations, within which to present his objections to the prior claims discovered and to propose, if there be occasion, modifications to the claims contained in said statement.

After examination and discussion, if there be occasion, of the objections and modifications suggested, the Central Bureau shall issue, as the case may be, either a certificate of absence of prior claims or a final statement of prior claims, enumerating the latter specifically.

When the inventor abstains from appealing, within the prescribed periods, against the "provisional statement of prior claims" and does not cancel his application for a patent, such provisional statement shall be considered as final.

The administrations of the contracting countries may take into consideration the opinion of the Central Bureau, according to the provisions of the domestic legislation of each country, and issue or refuse to issue the patent applied for.

The patent may mention the examination made by the Central Bureau and indicate the prior claims which, in the opinion of the Central Bureau, may be asserted against it.

In case the legislation of a contracting country should so authorize, the administration of such country may, after the issuance of a final statement of prior claims, still request the Central Bureau to indicate the modifications which should be made in the claims to originality embodied in the specifications in order that they may be introduced therein.

The Central Bureau shall then issue a new certificate, taking into account such modifications.

ARTICLE 11.

The administrations of the contracting countries may at any time request the Central Bureau, as a matter of general interest, to examine an application for a patent.

If so prescribed by the law of one of the contracting countries, patents delivered in that country may also be submitted to the examination of the Central Bureau, that is, unless corresponding patent application has already been examined by the Bureau.

The patentee may even be required, in certain cases determined by the domestic legislation of one of the countries, to cause such an examination to be made, and the certificate of each previous claim as well as the statements of previous claims issued after such examination may be mentioned in the official publications of the country which issued the patent, and the administration of such country may be authorized to furnish copies thereof on request.

ARTICLE 12.

Any examination made by the Central Bureau shall always be made without guarantee and without entailing any responsibility on its part.

ARTICLE 13.

Every request for the examination of a patent application shall involve the collection of an international fee in behalf of the Central Bureau.

In case of an appeal against a provisional statement of prior claims, a further fee shall be collected for the benefit of the Central Bureau.

The amount of the above fees and charges shall be fixed by the executory regulations.

The rates shall be doubled in case of examination of a patent previously issued.

TITLE III.

General provisions.

ARTICLE 14.

The Central Patent Bureau shall centralize documents and information relating to patents and to publications of every kind on the various industries.

It shall receive from all the administrative departments of the contracting countries the documents published by each of them, even those of a domestic nature, which might facilitate its task.

The Central Bureau shall always be at the disposal of the administrative departments of the contracting countries in order to furnish them from the International Patent Service the special information which they may require.

It may issue a periodical publication on questions concerning its functions.

This publication shall be in the French language and, if necessary, in the other languages which may be designated by the General Assembly.

ARTICLE 15.

Countries which become participants in the Central Patent Bureau shall have the privilege of declaring expressly that their administrative departments intend to avail themselves of its services also, either for both the international filing and the examination of patents or for only one of these services.

ARTICLE 16.

The contracting countries undertake to share the expenses of the general administration of the Central Bureau by paying a uniform annual contribution to be fixed by the General Assembly. This contribution shall in no case exceed the sum of 5,000 francs for each nation.

The annual receipts of the Bureau shall comprise, in addition to the proceeds from the contribution provided for in the preceding paragraph, the sums accruing from all international fees, taxes, and dues whatsoever collected in compensation for the operations connected with the in-

ternational filing of the examination of applications, in conformity with the rates fixed by the enforcement regulations.

ARTICLE 17.

The advances necessary for the operation of the Bureau shall be made by the Government of the country in which the Bureau has its seat.

The receipts and expenditures of the general administration of the Central Bureau of the International Filing Service and of the Examination Service shall be embodied in the annual account of the management of the Central Bureau under three distinct heads.

In case of a deficit in the receipts, the extra expenses shall be borne jointly by the adhering countries in accordance with the following determined basis.

For the expenses relating to matters of general administration the countries will be divided into six classes each contributing in the proportion of a certain number of units, viz:

	Units.
1st class	25
2d class	20
3d class	15
4th class	10
5th class	5
6th class	3

These coefficients shall be multiplied by the number of countries of each class, and the sum of the products thus obtained will furnish the number of units by which the total expenses are to be divided. The quotient gives the unit of expense.

The class in which each country is to be ranked shall be determined at the first meeting of the delegates of the adhering countries, account being taken both of the industrial importance and the population of each country.

The extra expenses incident to the International Filing Service on the one hand and to the Examination Service on the other shall be divided among the countries which have adhered to these services in the following proportion:

One-third of the excess in proportion to the quota attributed to each country according to the classification hereinabove provided for.

Two-thirds of the excess in proportion to the number of applications for international filing and to the number of the requests for examination submitted to the Bureau through the intermediation of each adhering country.

ARTICLE 18.

The International Central Bureau shall be administered under the authority of the League of Nations by a director, assisted by a Council of Administration composed of seven members, including a president; two vice-presidents and a secretary-general, elected every three years by the General Assembly of the delegates of each of the adhering countries.

The number of votes allowed to these delegates is fixed as follows according to the class in which the country is ranked:

	Number of votes.
1st class	6
2d class	5
3d class	4
4th class	3
5th class	2
6th class	1

The director shall be elected by secret ballot by the Council of Administration.

The *personnel* of the administration of the Central Bureau shall be chosen from the nationals of the adhering countries and appointed by the Council of Administration on the recommendation of the director. In appointing the staff of the Bureau, the importance of the operations performed by each adhering country shall be taken into account.

ARTICLE 19.

The Council of Administration shall draw up a budget of the expenses of original establishment of the Central Bureau, with the assistance of the delegates and technical experts designated by the Governments of the contracting countries.

The budget thus prepared shall be submitted for the approval of the General Assembly.

The expenses of original establishment shall be divided among the contracting countries in conformity with the schedule fixed for the contributive shares in article 17 hereinabove.

ARTICLE 20.

The General Assembly of the delegates of the adhering countries shall prepare the regulations necessary for the enforcement of the present arrangement, notably as regards the schedule of fees, dues, and compensation of any kind to be collected by the Central Bureau, as regards the internal working of the Bureau, and as regards the presentation of descriptions and claims of originality made in the descriptions of the patents submitted for international filing and for the examination of the Central Bureau.

ARTICLE 21.

The General Assembly of the delegates of the adhering countries shall meet whenever necessary and at least every three years in order to renew the powers of the Board of Directors, and, if necessary, to revise the executory regulations with a view to introducing therein such modifications as might improve the organization and the working of the Central Patent Bureau. It may also propose amendments to the present arrangement.

ARTICLE 22.

The adhering countries respectively reserve the right to conclude among themselves private agreements conferring special and reciprocal advantages for the benefit of their nationals in so far as the said arrangements in no way conflict with the provisions of the present arrangement.

ARTICLE 23.

The countries which have not taken part in the present arrangement may be permitted to adhere to it on their request presented to the Government at the seat of the Bureau, subject to the approval of at least a two-thirds majority of the votes assigned to the signatory countries of the present arrangement in conformity with article 18 above.

The subsequent adhesion of a non-signatory country shall be made contingent upon the payment by such country to the Central Bureau of a sum equal to the quota of the contracting countries in the expenses of original establishment according to article 19 hereinabove. After this payment has been made, notice of the adhesion shall be given by the Belgian Government to the other Governments, and the adhesion shall take effect one month after such notice is sent, unless a later date shall have been fixed by the adhering country.

ARTICLE 24.

The contracting countries shall have the right to adhere at any time to the present arrangement on behalf of their dominions, colonies, possessions, dependencies and protectorates, or for certain of them.

Nations, dominions, or self-governing colonies which have independent offices for the filing of applications for and the issuance of patents shall be considered as distinct adhering countries as regards the present arrangement.

ARTICLE 25.

The present arrangement shall come into force as soon as it shall have been ratified by two-thirds of the signatory countries. The ratifications shall be addressed to the French Government and shall remain on file in its archives.

Any country may denounce, either for itself or for its dominions, colonies, possessions, dependencies and protectorates, the present arrangement and withdraw from the union one year after the denunciation. By this act, however, it will abandon all its rights to the assets of the Central Bureau.

Done at Paris the 15th of November, 1920, in one copy only, which shall remain on file in the archives of the Government of the French Republic and authenticated copies of which shall be sent to each of the signatory countries.

The said copy, dated as above, may be signed until May 31, 1921, inclusive.

In witness whereof the plenipotentiaries hereafter, whose credentials have been recognized as being in good and due form, have signed the present convention:

For Belgium:
OCT. MAVAUT.
For Brazil:
RAUL FERNANDES.
For the Republic of Cuba:
For Ecuador:
E. DORN Y DE ALSUA.
For France:
AUG. ISAAC.
LYON-CAEN.
C. DROUETS.
For Greece:
J. YOUPIS.
For the Republic of Haiti:
For Japan:
For the Republic of Liberia:
For the Republic of Nicaragua:
CARLOS A. VILLANUEVA.
For the Republic of Panama:
For Peru:
For Poland:
FRANCOIS DOLEZAL.
For Portugal:
For Roumania:
C. ANTONIADE.
For the Kingdom of the Serbs, Croats, and Slovenes:
For Siam:
PHYA VISAL BACHANAKICH.
For the Republic of Czechoslovakia:
For Uruguay:
Copy certified correct.
The Minister Plenipotentiary Chief of the Protocol:
(Signature illegible.)

Patents Nos. 1,378,831 to 1,379,601.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 286—No. 4. TUESDAY, MAY 24, 1921. Price—$5 per year.

[PUBLISHED JUNE 7, 1921.]

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of May 24, 1921.

Patents	771	No. 1,378,831 to No. 1,379,601,	inclusive.
Designs	48	No. 57,960 to No. 58,007,	inclusive.
Trade-Marks	364	No. 142,909 to No. 143,271,	inclusive.
Labels	50	No. 22,893 to No. 22,942,	inclusive.
Prints	8	No. 5,596 to No. 5,603,	inclusive.
Reissues	5	No. 15,108 to No. 15,112,	inclusive.
Total	1246		

Adverse Decisions in Interference.

PATENT NO. 1,250,885.

On April 14, 1921, a decision was rendered that Carl Axel Wilhelm Huitman was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,250,885, subject, "Automatic telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,269,903.

On April 14, 1921, a decision was rendered that Leonard Charles Bygrave was not the first inventor of the subject-matter covered by claims 1, 2, and 10 of his Patent No. 1,269,903, subject, "Means for connecting electric lines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,360,414.

On April 19, 1921, a decision was rendered that Cheng Chich Kuo was not the first inventor of the subject-matter covered by claims 2, 3, 4, and 6 of his Patent No. 1,360,414, subject, "Photographic apparatus," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER NO. 2,658.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 17, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 1, Nailing and Stapling, (Division XI,) establish the following subclasses and definitions:

Machines—
Staple forming and setting—
2.1. Desk type—
2.2. Wire,
2.3. U-strip.

2.1. MACHINES, STAPLE FORMING AND SETTING, DESK TYPE. Machines adapted to be placed on a desk which cut and form a staple from a strip and set the same into the work.

2.2. MACHINES, STAPLE FORMING AND SETTING, DESK TYPE, WIRE. The strip is a wire.

2.3. MACHINES, STAPLE FORMING AND SETTING, DESK TYPE, U-STRIP. The strip is U-shaped in cross-section.

The patents contained in subclasses 2.1 and 2.3 above have been taken from class 1, Nailing and Stapling, subclasses 2, Machines, Staple forming and setting, and 48, Implements, Staple forming and setting, and those contained in subclass 2.2 have been taken from class 1, Nailing and Stapling, subclasses 2, Machines, Staple forming and setting, and 7, Machines, Book, Staple forming and setting.

THOMAS E. ROBERTSON,
Commissioner.

Notice of Cancelation.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 7, 1921.

Monarch Motor Car Company, its assigns or legal representatives, take notice:

A cancelation proceeding has been instituted by this Office upon the application of Lorena W. Robinson, trading under the name of Texas Wheel & Body Company and doing business at 2500 Commerce street, Dallas, Tex., to effect the cancelation of the trade-mark registration of the Monarch Motor Car Company, 1528 Jefferson avenue, Detroit, Mich., No. 100,380, dated October 20, 1914, and the notice of such proceeding sent by registered mail to the said Monarch Motor Car Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Monarch Motor Car Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancelation will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

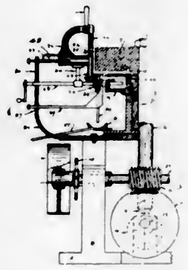
Condition at Close of Business May 14, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Dec. 30	Dec. 21	624
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Nov. 1	1,477
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Sept. 29	687
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	June 24	Jan. 20	1,432
167	5. Book-Making; Books, Strips and Leaves; Harvesters: Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 1	Oct. 14	628
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 4	Feb. 19	791
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 20	Jan. 26	1,288
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 18	Apr. 8	544
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 8	Mar. 29	680
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Nov. 22	Feb. 24	953
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Feb. 7	Mar. 17	409
222	12. Machine Elements	Oct. 16	Feb. 4	981
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 14	Jan. 29	1,462
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Aug. 5	Apr. 1	837
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	June 28	Sept. 13	1,517
111	16. Radiant Energy; Telegraphy; Telephony	July 19	Oct. 14	1,410
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Nov. 15	Feb. 15	727
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Aug. 13	Dec. 3	1,450
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Aug. 24	Dec. 14	766
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 10	Jan. 18	989
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 20	Mar. 5	460
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Jan. 10	Mar. 21	360
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Sept. 20	Feb. 18	756
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 20	Feb. 8	790
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 19	Mar. 29	250
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 21	Dec. 14	774
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Dec. 31	Mar. 2	938
225	28. Internal-Combustion Engines	Oct. 29	Jan. 24	1,114
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Oct. 1	Feb. 1	647
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 3	Apr. 1	902
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 16	Oct. 6	1,852
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 4	Feb. 3	1,097
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 17	Feb. 9	678
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Apr. 4	Apr. 3	218
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 1	Apr. 7	439
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 14	Dec. 20	1,431
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Nov. 22	Nov. 30	1,579
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 8	Dec. 2	908
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 28	June 17	1,578
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Oct. 26	Dec. 30	1,627
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 22	Jan. 6	813
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Sept. 4	Oct. 19	1,829
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	July 26	Aug. 23	1,218
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 8	Mar. 16	405
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 20	Jan. 26	967
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Nov. 8	Jan. 26	680
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Sept. 25	Nov. 26	1,028
	Oldest new case, June 24; oldest amended, June 17.			
	Total number of applications awaiting action			44,990
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 20	Mar. 29	4,889
	Designs	Sept. 25	Dec. 1	2,162
	Labels and Prints	Feb. 8	Mar. 17	550

PATENTS

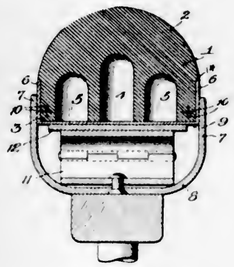
GRANTED MAY 24, 1921.

1,378,831. LENS-EDGE-GRINDING MACHINE. JOHN F. ASHTON, Worcester, and THOMAS N. ASHTON, Fall River, Mass. Filed Sept. 4, 1919. Serial No. 321,568. 6 Claims. (Cl. 51—51.)



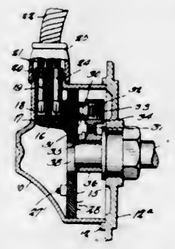
2. In a machine for grinding lens-edges, the combination of a vertically arranged grindstone shaft; means for revolving said grindstone shaft; a stationary table-base having a free bearing around said grindstone shaft, coaxial therewith, and having holes for drain-pipes; a supporting stool having a free bearing around said grindstone shaft, coaxial therewith, and secured to said table-base; a rotatable work-table having a circular basin adjacent to, around and under, said grindstone, said basin having a plurality of holes for drip-pipes, and said work-table having a cylindrical bearing-neck coaxial with said vertically arranged grindstone shaft, and said work-table having a plurality of radially disposed slots; lens-holding carriages slidably mounted in said slots in the work-table.

1,378,832. CUSHIONED TIRE. HENRY CLAY BABEL, Buffalo, N. Y. Filed July 11, 1918. Serial No. 244,459. 1 Claim. (Cl. 152—8.)



The combination of a rim substantially U-shaped in cross section, a tire having a solid tread portion and solid side portions forming continuations of the solid tread portion to provide a substantially solid arch, said tire being also provided with central and side rows of air cells extending from the base of the tire toward the solid tread thereof, the central row being extended outwardly beyond the side rows, a sealing sheet extending across the base of the tire and sealing the air cells and having outturned marginal portions extending beyond the edges of the sides of the rim, annular retaining members embedded in the solid side portions of the tire and located in the angles formed by the marginal portions of the sealing sheet, a resilient band located within the rim and being of a width to extend laterally beyond the said air cells to reinforce the sealing sheet and protect said sheet against excessive pressure in the cells incident to compression of the tire and yieldable means located wholly within the area of the air cells and mounted within the rim and exerting a constant outward pressure against said resilient band to hold the same firmly against said sealing sheet and forcing said band and said sheet and said tire normally away from the bottom of the rim.

1,378,833. TIMER FOR INTERNAL-COMBUSTION ENGINES. CHARLES H. BOKEMEYER, Baltimore, Md., assignor to The Alpha Timer and Accessories Company, Baltimore, Md., a Corporation of Maryland. Filed Dec. 10, 1919. Serial No. 343,709. 2 Claims. (Cl. 200—19.)



1. In a commutator, a shell, a disk of insulating material removably mounted in the shell, contact points embedded in the disk, and coöperating means on the shell and the disk for centering the latter in the former, said means comprising lugs on the wall of the shell, and notches in the periphery of the disk in which said lugs seat.

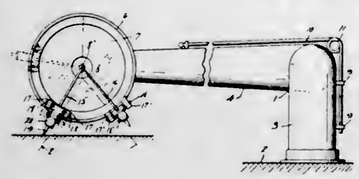
1,378,834. ELECTROLYTIC PROCESS FOR THE TREATMENT OF CARBON. ARTHUR R. BULLOCK, Lakewood, Ohio. Original application filed Oct. 2, 1914, Serial No. 864,643. Divided and this application filed Aug. 29, 1919. Serial No. 320,710. 7 Claims. (Cl. 204—1.

1. The process of treating carbon which consists in immersing a carbon anode electrode and a cathode electrode in an electrolytic bath consisting of sodium sulfate, passing an electric current from the anode to the cathode, regulating the amperage and voltage of said current so as to cause the carbon to be removed from the anode and to pass to the electrolyte.

1,378,835. SOUND-REPRODUCER. ROBERT W. CHARLTON, Pineville, La., assignor of one-half to Harry H. Jordan, Rapides parish, La. Filed Jan. 10, 1920. Serial No. 350,587. 7 Claims. (Cl. 274—24.)

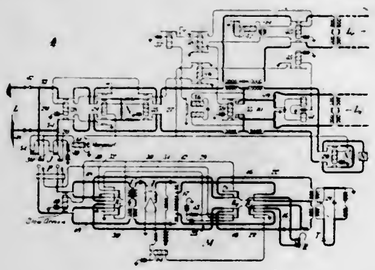
1. In combination, a reproducer arm, a sound-box comprising a diaphragm supported thereon, and a plurality of angularly related stylus-holding means carried by said sound-box for playing sound records differing in type as regards direction of undulation of the grooves therein, said sound-box being adjustable to bring any stylus-hold-

ing means into operative relation to the type of record which it is desired to play without substantially changing the angular relation of the diaphragm to the plane of the



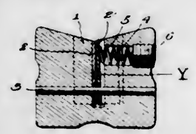
record, said stylus-holding means being so related that any stylus may play without interference from a stylus in the other holding means.

1,378,836. BALANCING EQUIPMENT FOR FOUR-WIRE CIRCUITS. ALVA B. CLARK and CHARLES S. DEMAREST, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 29, 1919. Serial No. 273,804. 11 Claims. (Cl. 179—170.)



10. A transmission circuit including lines interconnected by repeater apparatus, means to balance said lines, an operator's listening set, means for connecting said listening set with one of said lines, and a high impedance transformer in said connection to prevent appreciable unbalance of said line.

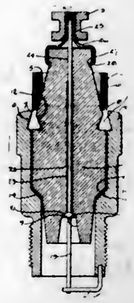
1,378,837. SHUTTLE. WILLIAM F. COMISKY, Middletown, Conn. Filed Sept. 7, 1920. Serial No. 408,413. 6 Claims. (Cl. 139—46.)



2. In a shuttle, a pair of independent thread tensioning members having approximately vertical confronting faces between which the thread passes, means to loosely mount one member, and means to effect tilting of said member relative to the other member to cause the top of the first member to engage the top of the other member.

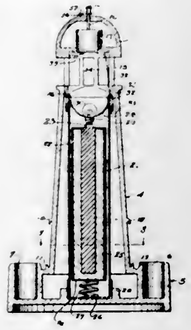
1,378,838. SPARK-PLUG. ARTHUR T. CRANE, Waterbury, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Feb. 25, 1920. Serial No. 361,175. 4 Claims. (Cl. 123—169.)

1. In a spark-plug, the combination with a shell and core formed with an annular locking-recess which expands inwardly from its entrance, of a multiple locking-ring composed of a plurality of soft metal parts which



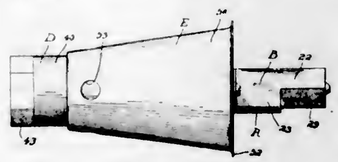
are forced under pressure into the said recess to form a locking-ring of wedge-shaped cross-section.

1,378,839. SIGNAL FOR DINING-TABLES. NATHANIEL B. CREGIER, Los Angeles, Calif. Filed July 11, 1916, Serial No. 108,552. Renewed July 30, 1917. Serial No. 183,646. 1 Claim. (Cl. 240—8.5.)



A device for the purposes described, comprising in combination an upstanding hollow structure provided with a supporting base of greater diameter than the structure, a cap detachably mounted on said structure and spaced therefrom to form openings for light visible at every angle therefrom, a battery disposed in said structure, an electric lamp mounted and confined therein adjacent said openings and a switch means mounted on the cap for controlling and signaling with said light.

1,378,840. EXHAUST-WHISTLE FOR MOTOR-VEHICLES. EDGAR L. CRUISE, Keystone, W. Va. Filed Feb. 3, 1921. Serial No. 442,141. 7 Claims. (Cl. 116—138.)



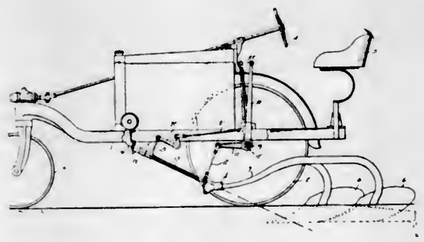
1. A whistle comprising a hollow body having a plurality of different length chambers formed therein, fluid escape ports formed in the body communicating with each one of the chambers, and a reed including a plurality of flexible tongues arranged in the body with one tongue in each chamber, the terminals of the tongues ending adjacent to the inner wall of said ports.

1,378,841. ADJUSTABLE FRICTION-GRAB FOR FISHING-TOOLS. LAWRENCE E. DICKSON, Strawn, Tex. Filed July 10, 1920. Serial No. 395,307. 4 Claims. (Cl. 294—115.)



1. In a fishing tool provided with adjustable jars, the lower jar having a base provided with a transverse slot therein, friction grabs pivotally connected to said base in said slot and provided with lateral flanges, a driving and spreading plate having vertical slots to receive said flanges, and a pin rigid with said plate and projecting through said base to be actuated by said upper jar.

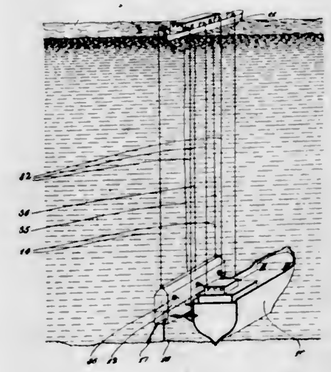
1,378,842. TRACTOR-PLOW. JOHN C. DITTBRENNER, Indianapolis, Ind., assignor to Holton Tractor Company, Dover, Del., a Corporation of Delaware. Filed Dec. 4, 1919. Serial No. 342,488. 11 Claims. (Cl. 97—60.)



1. In an agricultural implement of the class described, the combination with a draft frame and traction wheels therefor, of tilling means suspended adjacent one end from the center of the wheels, and from the frame in advance of such wheel center.

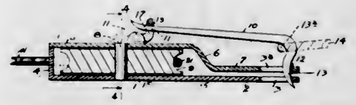
1,378,843. SHIP-SALVAGING APPARATUS. CHARLES E. DRAKE, New York, N. Y. Filed Sept. 14, 1920. Serial No. 410,197. 3 Claims. (Cl. 61—69.)

1. In a device for the purpose described, in combination with a drill bar, of means for rotating and advancing said bars, said means permitting disconnection, a triangular support frame for said bar adapted to maintain the same substantially horizontal, a haulage cable passing through the upper member of said frame adjacent its base



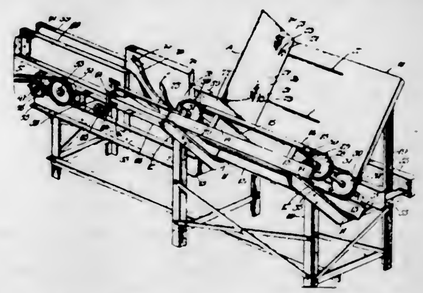
attached to said bar, and a gravity operated latch pivoted in said bar adjacent the drill end thereof.

1,378,844. SHEAVE-BLOCK. EARNEST E. EDSTROM, Whitefish, Mont. Filed Mar. 12, 1920. Serial No. 365,298. 10 Claims. (Cl. 254—194.)



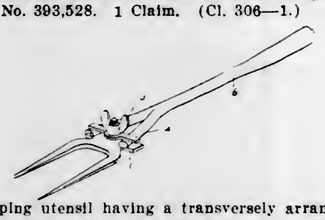
1. In a device of the class described, the combination of a bottom plate, a shaft carried by said bottom plate, a pulley on said shaft, a removable top plate, a lever for holding said top plate in an assembled position with said bottom plate, and means for locking the lever.

1,378,845. FEED MECHANISM FOR WOOD-REWORKING MACHINES. WILLIAM JOHN ELDER, Oswego, N. Y. Filed June 21, 1918, Serial No. 241,114. Renewed Oct. 29, 1920. Serial No. 420,579. 7 Claims. (Cl. 144—245.)



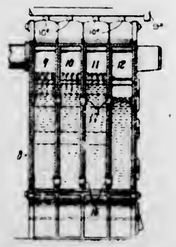
1. In feed mechanism for wood reworking machines, the combination of means for supporting a stack of timber lengths, means for removing the lengths successively from the stack, a spring pressure element arranged in the path of the succeeding progressing lengths and constructed to exert a lateral lifting pressure thereagainst and thus dispose them vertically on their lower longitudinal edges, and means for delivering such lengths thus positioned to the reworking machine.

1,378,846. CAMPING UTENSIL. WILLIAM J. FELDKAMP, Brantford, Ontario, Canada. Filed July 2, 1920. Serial No. 393,528. 1 Claim. (Cl. 306—1.)



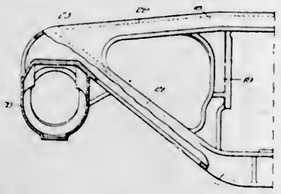
A camping utensil having a transversely arranged bar portion rigid therewith, a bolt rigidly secured in the center of said bar portion, a clamping bar loosely mounted on said bolt and extending over the bar portion of the utensil, and a nut on said bolt adapted to secure a temporary handle between the clamping bar and transverse portion of the utensil.

1,378,847. BOILER. JAMES T. FENNELL, Philadelphia, Pa. Filed July 21, 1919. Serial No. 312,157. 2 Claims. (Cl. 122—225.)



1. A steam boiler of the character described including a plurality of hollow water sections; and means providing passageways forming communication between the sections and arranged at different levels whereby if a pressure is established in any of the sections sufficient to back the water therefrom through the lower passageway, the water backed out will be replaced by water from an adjacent section flowing through the upper passageway; substantially as described.

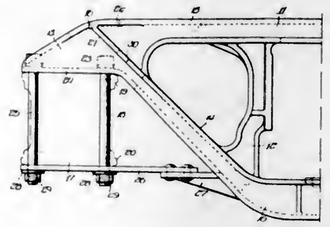
1,378,848. TRUCK SIDE FRAME. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 4, 1920. Serial No. 363,118. 3 Claims. (Cl. 105—205.)



3. A truck side frame including tension and compression members and entire journal boxes all cast in a single piece, said tension and compression members being directly connected to each other over the journal box to prevent tendency of said journal box to revolve.

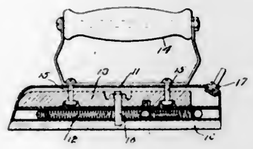
1,378,849. SIDE-FRAME CONSTRUCTION. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 8, 1920. Serial No. 372,221. 4 Claims. (Cl. 105—205.)

1. In combination, a truck side frame including tension and compression members and a journal box receiving flange all cast in a single piece, the tension and compression members being of channel section with the webs thereof at the upper side of each of said members, respectively, and being joined directly to each other at the journal box receiving portions, a journal box, and inner



and outer bolts for securing said journal box to the side frame, said webs having openings large enough to permit the passage of the bolt head of the inner bolt whereby the inner bolt head may rest upon the journal box receiving flange.

1,378,850. ELECTRICALLY-HEATED APPLIANCE. LINDOL FRENCH, East Pepperell, Mass. Filed July 17, 1919. Serial No. 311,439. 5 Claims. (Cl. 219—25.)



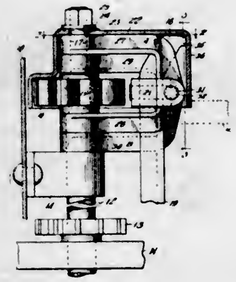
1. An electric flat iron comprising a heating element in a main circuit and in juxtaposition to the operative surface of said iron, a shunt circuit associated with said main circuit and having circuit closing means therein responsive to an abnormal degree of heat in the iron and located within the iron relatively close to the operative surface thereof, and a circuit breaker in said main circuit responsive to energization of said shunt circuit.

1,378,851. SHARPENING DEVICE FOR RAZOR-BLADES. FRANZ A. FULLER, Newark, N. J. Filed May 28, 1919. Serial No. 300,397. 3 Claims. (Cl. 51—72.)



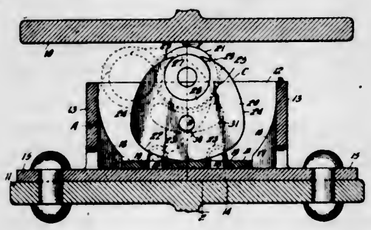
1. A device for sharpening razor blades, comprising a frame made from a single piece of suitable material, the lower portion of said frame being provided with integral means for securing said device to a frame carrying a razor blade holder, the upper portion of said frame being provinded with integral brackets for supporting a roller, a sharpening roller rotatably mounted in said said supporting brackets, a handle journaled in one of the roller supporting brackets, means carried by the handle and roller for transmitting rotary movement to said sharpening roller, and means to press a blade in said holder against said roller.

1,378,852. HAND-BRAKE FOR RAILWAY-CARS. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 4, 1920. Serial No. 356,258. 5 Claims. (Cl. 74—115.)



1. In a brake of the vertical staff type for railway cars, the combination with a vertical staff having a ratchet wheel rotatable in unison therewith, of a pawl coöperable with said ratchet wheel, and means for supporting said pawl to permit its bodily oscillation in a horizontal plane with respect to said staff, said means including two elements each independently journaled on said staff, and a support for said pawl carried by said two elements.

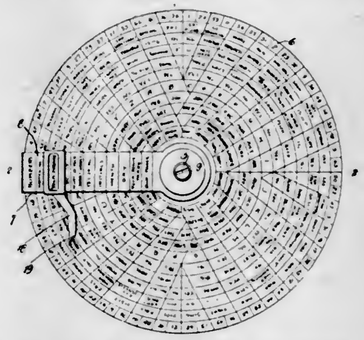
1,378,853. SIDE BEARING. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed July 12, 1920. Serial No. 395,428. 4 Claims. (Cl. 64—65.)



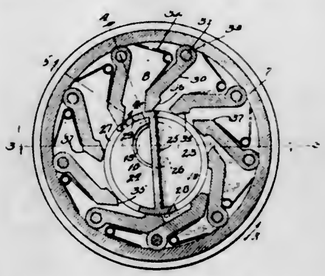
1. In a side bearing of the character described, the combination with a hollow retaining member adapted to be secured to a bolster and provided with means at its ends to limit the movement of an anti-friction element, associated therewith; of a gravity self-centering roller element coöperable with said member, said element having an active bearing surface movable with respect to the remainder of said element and adapted to be presented to an opposed bolster bearing surface.

1,378,854. GAME. CONRAD E. GIDLOF, Elizabeth, N. J., assignor to American Ocarina and Toy Company, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 7, 1920. Serial No. 387,106. 2 Claims. (Cl. 46—41.)

1. A game comprising a base plate provided with a standard, a rotatable disk adapted to spin on the standard, a yoke provided with upper and lower arms embracing the disk and having its ends attached to the said standard, a series of inscriptions circumferentially spaced on the disk and a series of inscriptions on the upper member of the said yoke, and an indicator member mounted on the said upper portion of the yoke to indicate any of the inscriptions thereon and provided with a pointer to indicate any of the corresponding inscriptions on the surface of the plate.



1,378,855. ROTARY POWER DEVICE. ELLICK H. GOLLINGS, Chicago, Ill. Filed Mar. 10, 1919. Serial No. 281,892. 8 Claims. (Cl. 121—53.)



1. In a device of the class described, the combination of a relatively rotatable casing and member, the latter being arranged eccentrically in the casing to afford an eccentric space therebetween and a plurality of partitions pivotally mounted on the casing and having the free ends thereof held under a resilient tension against the outer face of said member, the member having inlet and outlet ports extending peripherally therearound, each port being longer than the distance between the free ends of adjacent pairs of partitions.

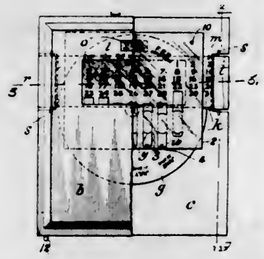
1,378,856. ROTARY POWER DEVICE. ELLICK H. GOLLINGS, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,910. 3 Claims. (Cl. 121—53.)



1. In a device of the class described the combination of a hollow rotary member having internally projecting

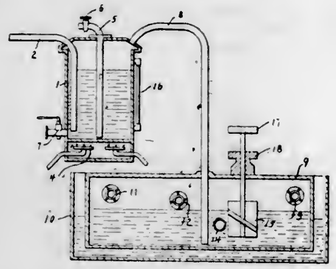
teeth, the surfaces of said teeth being at an acute angle to the circumference of the hollow member, a rotor mounted eccentrically therein and having teeth adapted for engagement with the teeth of the rotary member to provide expansible inlet compartments at one side of the device and contactible outlet compartments at the opposite side of the device, a stationary hollow cylinder arranged axially of the rotor having a transverse partition therein, a hollow shaft secured to each side of the cylinder, a clamping bearing for supporting the outer end of each shaft, a sleeve around each shaft secured to and rotating with the hollow rotary member, and a bearing for external engagement with each sleeve.

1,378,857. CALENDAR. HENRY LAWRENCE GULLINE, Bordeaux, Quebec, Canada. Filed Aug. 19, 1918. Serial No. 250,624. 4 Claims. (Cl. 40—113.)



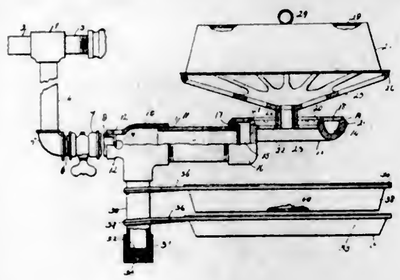
1. In a perpetual calendar, a movable member bearing ordinal numbers divided in series, any contiguous seven of which series include thirty-one days, a front for concealing a portion of said movable member and having an opening for exposing such contiguous series, of means for concealing one or more of the ordinal numbers finishing the month, said means consisting of a series of individually adjustable screens supported in position to be adjusted over the said ordinal numbers finishing the month, for the purpose set forth.

1,378,858. METHOD OF MAKING MOTOR-FUEL. ALBERT HAYES, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed July 14, 1919, Serial No. 310,536. Renewed Oct. 16, 1920. Serial No. 417,480. 3 Claims. (Cl. 44—9.)



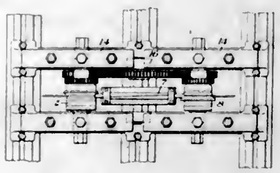
1. The herein described method of combining alcohol with kerosene to form a stable, non-stratifying compound adapted for use as a motor fuel which consists in adding ether to the kerosene, then adding benzol to the kerosene and ether, and finally adding the alcohol slowly to the mixture of kerosene, ether and benzol.

1,378,859. COMBINATION HEATING AND COOKING STOVE. SAMUEL HEATH, Philadelphia, Pa. Filed Apr. 16, 1919. Serial No. 290,518. 2 Claims. (Cl. 126—249.)



1. A heating and cooking stove comprising in combination a burner, cross ribs carried by said burner, a base supported by said cross ribs, a dish shaped spider provided with a hub, the latter adapted to rest upon the aforementioned base, a rim on said spider at a higher level than the hub, and a deflector supported on said rim.

1,378,860. METHOD AND APPARATUS FOR MAKING SPECIALLY-SHAPED BARS. ALBERT W. HEINLE, Crafton, Pa., assignor of one-half to Charles D. Russell and one-half to Edward B. Swygart, St. Paul, Minn. Filed Mar. 19, 1920. Serial No. 367,240. 17 Claims. (Cl. 80—63.)



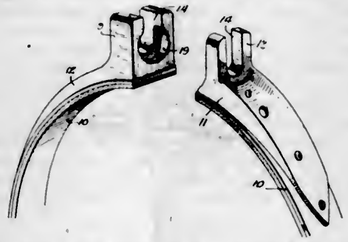
2. The method of forming specially shaped bars, which consists in providing a blank having a polygonal form in cross section, exerting a shaping action upon two opposite faces of said blank with the blank in a position in which its transverse axis is oblique with respect to a horizontal plane, twisting the blank about its longitudinal axis, subjecting it to a shaping action upon two other faces thereof with the blank in another position in which its transverse axis is oblique with respect to a horizontal plane, the different shaping actions and the twisting being carried on simultaneously at different portions of the blank, and moving the blank continuously forward to the action of the shaping and twisting means, substantially as described.

1,378,861. MANUFACTURE OF STEEL. ALBERT H. HENDERSON, Towson, Md. Filed July 9, 1919. Serial No. 309,656. 3 Claims. (Cl. 75—49.)

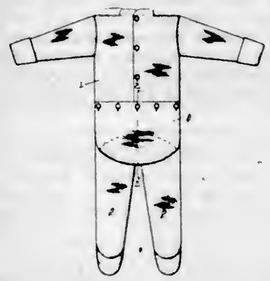
1. In the production of steel for molding into ingots or castings, adding to the charge during the fusing anhydrous borax in the proportion of about four pounds to each ton of metal.

1,378,862. TRANSMISSION-BAND. JOSEPH HENRY, Philadelphia, Pa. Filed June 3, 1920. Serial No. 386,233. 3 Claims. (Cl. 188—249.)

3. In a device of the class described, a substantially circular band provided upon each end thereof with a lug embodying an upstanding portion provided with a slot, an operating shaft extending through said slots, a spring disposed about said operating shaft intermediate said upstanding portions, and means embodied in one of said lugs for engaging said spring and forcing the same into engagement with said operating shaft, whereby said operating shaft is held firmly seated in the bottom of the slot of said last named lug.



1,378,863. GARMENT. WARREN S. HERRON, Centerville, Mich., and FRANK W. THOMAS, Toledo, Ohio, assignors to Dr. Denton Sleeping Garment Mills, Centerville, Mich., a Corporation of Michigan. Filed Jan. 10, 1921. Serial No. 436,051. 4 Claims. (Cl. 2—144.)



2. A garment having above its crotch a seat-flap with an upper convex edge, and a drop-flap provided with a lower convex edge attached to the convex edge of the seat-flap to provide fullness.

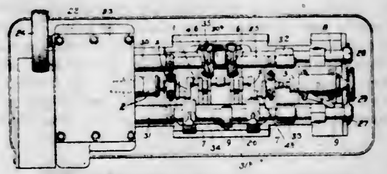
1,378,864. HEEL. JULIUS E. HETTINGER, Chicago, Ill. Filed Mar. 15, 1920. Serial No. 365,941. 4 Claims. (Cl. 36—72.)



1. A heel covering comprising a base adapted to be worn under the heel of a shoe, a side piece extending upwardly from said base, said side piece being attached to said base, a second side piece extending around and above said first mentioned side piece and being attached thereto, means fixed to the inner surface of said second side piece to prevent slipping of said second side piece on the heel, and means for tightening said second side piece around said heel.

1,378,865. MILLING-MACHINE. ROBERT L. HIBBARD, Pittsburgh, Pa. Filed Dec. 2, 1919. Serial No. 341,851. 19 Claims. (Cl. 90—15.)

1. In combination in a milling machine, a spindle for rotating the work to be machined, a pivoted rocker arm mounted for movement transversely of the work, a cylindrical milling cutter with its cutting surface upon its cylindrical periphery carried by the arm with its axis of rotation parallel to that of the spindle, a cam for swinging the rocker arm about its point of pivotal support to cause the cutter to approach the work, and means for rotating the work, cutter and cam.

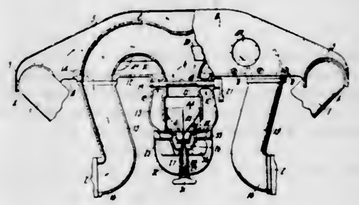


1,378,866. MAIN-WHEEL UNIT FOR TIMEPIECES. ERNEST H. HORN, Waterbury, Conn., assignor to Waterbury Clock Co., Waterbury, Conn., a Corporation. Filed Aug. 18, 1920. Serial No. 404,313. 1 Claim. (Cl. 58—139.)



A main-wheel unit for timepieces, comprising a main-wheel having a flat-sided assembling-opening, an arbor having an integral, flat-sided assembling-shoulder conforming in shape to the said opening, and a collet driven upon the said arbor and brought to a bearing upon the said wheel, to hold the same in place upon the said shoulder, the said arbor being also formed with an integral hook for the attachment of the main-spring.

1,378,867. CARBURETER. CHESTER F. JOHNSON, Detroit, Mich. Filed June 26, 1915. Serial No. 36,435. 28 Claims. (Cl. 123—122.)

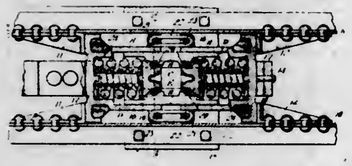


1. In combination with spaced exhaust pipes of an internal combustion engine, a conduit for heated air extending across between the exhaust pipes and having intake openings adjacent thereto, a fuel feeding device supported by the air conduit, said fuel feeding device comprising a fuel reservoir, a nozzle and a mixing chamber, a fuel-mixture conduit leading from the mixing chamber to the engine, said fuel-mixture conduit being arranged in such manner with respect to the air conduit as to be heated by warm air as it passes through the latter and before said warm air reaches the fuel mixture conduit.

1,378,868. FRICTION SHOCK-ABSORBING MECHANISM. GEORGE A. JOHNSON, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 19, 1919. Serial No. 277,965. 1 Claim. (Cl. 213—64.)

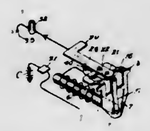
In a friction shock absorbing mechanism, the combination with a pair of opposed, relatively longitudinally mov-

able friction shells each having an interior friction surface extending parallel to the line of relative longitudinal movement, the friction surface of one shell being in alinement with the friction surface of the other shell, said shells being normally separated an amount equal to the permissible stroke of the mechanism; of a set of friction shoes common to both shells, each shoe of the set having an outer surface extending parallel to the said line of relative movement and coöperable with the friction surfaces of both shells, each shoe having also a pair of longitudinally separated wedge faces on its inner side; a



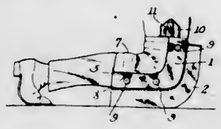
wedge associated with each end set of wedge faces of the shoes; a spring interposed between each wedge and the remote end of the corresponding friction shell; and limiting shoulders on the interior of each shell coöperable with the respective adjacent ends of the shoes to limit the inward movements of the latter with respect to both shells, the distance between one set of shoe ends and corresponding shell shoulders being less than the permissible stroke of the mechanism whereby movement of the shoes with respect to both shells is insured during a complete stroke of the mechanism.

1,378,869. CIRCUIT-BREAKER RELAY. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed June 6, 1917, Serial No. 173,084. Divided and this application filed Sept. 19, 1917. Serial No. 192,050. 17 Claims. (Cl. 200—87.)



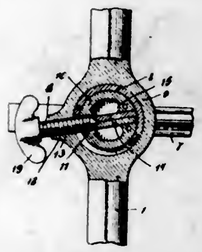
17. A relay structure of the character described including a heel iron, ears provided for said heel iron, an armature having members adapted to coöperate with said ears to pivotally support the armature in position, and a spring for maintaining said armature in position.

1,378,870. KNEE-PAD. EDWIN N. KAUFFMAN, Mahaffey, Pa. Filed Dec. 3, 1920. Serial No. 427,968. 2 Claims. (Cl. 2—130.)



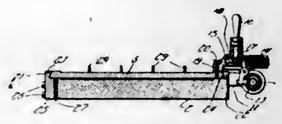
2. A knee pad comprising a main strip of sufficient length to encircle the leg, a plurality of longitudinally extending pockets, elastic straps secured at their inner ends to and freely extensible in said pockets, metal eyes on the ends of said straps, buttons on the outer portion of the pad positioned to be engaged by the strap eyes when the device is applied, a pocket on the inner side of the main strip and extending transversely thereof, said pocket having its opening spaced from the edge of the strip, and a cushion pad removably contained within said pocket.

1,378,871. WINDSHIELD. JACOB S. KERN, Fleetwood, Pa. Filed Apr. 27, 1920. Serial No. 376,923. 1 Claim. (Cl. 296—92.)



In a device of the character specified, the combination with a standard of the supporting frame, said standard provided with a hollow cylindrical enlargement, of a wind shield frame provided at one end with a transversely split clamping sleeve working in said enlargement, a resilient expanding ring with spaced apart ends arranged in the clamping sleeve, said expanding ring provided with an interiorly threaded opening, a pair of flat expanding plates arranged with their outer edges fitting between the spaced ends of the expanding ring and an adjusting screw working through the enlargement and interiorly threaded opening of the expanding ring and formed with a cone shaped inner end adapted to engage corresponding registering recesses formed in the inner edges of the expanding plates.

1,378,872. MEAT-SLICING MACHINE. WILLIS E. KIDNEY, Cleveland, Ohio, assignor to The Cleveland Electric and Machine Mfg. Co., Cleveland, Ohio. Filed Mar. 10, 1920. Serial No. 364,851. 2 Claims. (Cl. 17—24.)



1. A device of the character described comprising a reciprocating traveling table, a meat carrying plate slidably mounted on said table, said meat carrying plate and said table having coöperating guides inclined upwardly and inwardly, a worm, a housing, a tooth piece carried by said housing engaging said worm, and means for maintaining a snug sliding fit between said meat carrying plate and said table, said means comprising an undercut guide for said meat carrying plate detachably mounted on said table, means for clamping said guide to said table, and means to adjust said guide insertible between said guide and table.

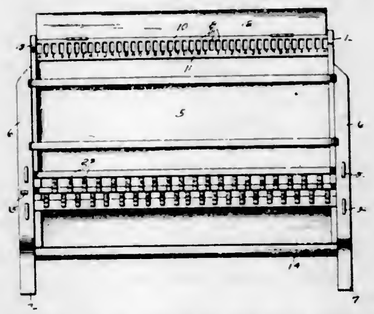
1,378,873. OSCILLATING IGNITION-MAGNETO. ARTHUR C. KLECKNER, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Oct. 20, 1919. Serial No. 332,092. 5 Claims. (Cl. 123—149.)



1. An oscillating ignition equipment consisting in combination with a magneto comprising a rotor, stator, and

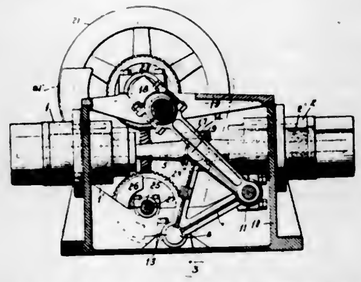
primary and secondary windings, spring means normally holding the rotor in a certain position with respect to the stator, a trip device connected with the rotor adapted to be engaged by an engine driven actuator, moved against the tension of said spring means and released, together with interrupter contacts in circuit with said primary winding, means coöperating with said interrupter contacts arranged to insure that the circuit including the primary winding is open for at least a significant period of time before the trip device is released by the engine driven actuator as aforesaid, and means for actuating the interrupter contacts to open the circuit including the primary winding when on its recoil movement the rotor is at substantially the position where the peak of the current wave created in said primary winding is attained.

1,378,874. CHILD'S EDUCATIONAL AND AMUSEMENT DEVICE. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Jan. 28, 1921. Serial No. 440,749. 6 Claims. (Cl. 35—9.)



1. A device of the character described comprising a body portion having a plurality of vertically disposed tubes formed therethrough, letter blocks adapted to fit in and be guided by said tubes, said tubes being correspondingly designated by letters of the alphabet, keys adapted to eject the letter blocks from the bottoms of said tubes, said keys being likewise correspondingly designated by letters of the alphabet, a pair of shields and means for securing the same inwardly and outwardly of said keys to thereby prevent movement of said keys.

1,378,875. ENGINE. SAMUEL L. GAISWOLD KNOX, San Francisco, Calif. Filed Nov. 2, 1916. Serial No. 129,064. 7 Claims. (Cl. 121—120.)



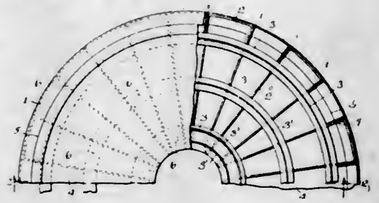
2. An engine comprising two sets of opposed cylinders and pistons, piston rods connecting the pistons of each opposing pair, a substantially pyramidal-shaped rocker journaled on one lateral edge in spaced bearings, spaced journals at the opposite lateral edge of said rocker connected to the piston rods, a connecting rod journaled at the apex of the rocker and a crank shaft operatively connected with the other end of said connecting rod.

1,378,876. METAL WHEEL. LAURENCE S. LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 3, 1919. Serial No. 301,458. 3 Claims. (Cl. 301—63.)



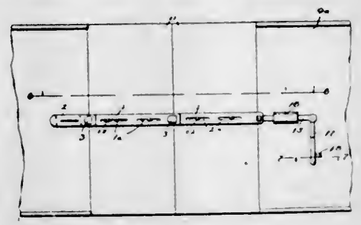
1. In a wheel of the character described, the combination of a pair of side disks or plates provided with offsets or ledges at their circumferential edges, a rim seated upon the edges and a reinforcement of hollow cylindrical form seated upon said edges and having a radially projecting continuous rib engaging the inner surface of the rim.

1,378,877. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Aug. 19, 1918. Serial No. 250,428. 9 Claims. (Cl. 301—63.)



1. A metal wheel the spoke portion of which consists of a sheet metal plate having a free edge of the sheet metal presented to the side of the wheel combined with a sheet metal side plate circumferentially continuous between the hub and rim and welded by its inner surface to the free edge of the sheet metal plate of which the spoke portion consists.

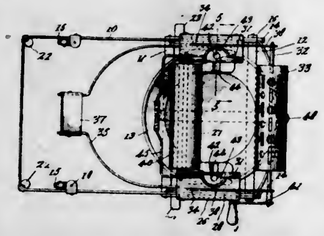
1,378,878. ATTACHMENT FOR EXTENSION-TABLES. JOHN O. LARSON, Litchfield, Minn. Filed Sept. 7, 1920. Serial No. 408,718. 1 Claim. (Cl. 45—9.)



The combination with a table having extension leaves, of plates slidably secured to said leaves and having their

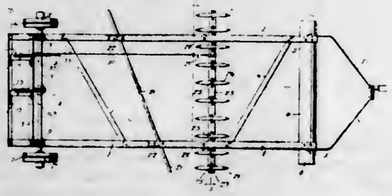
terminal portions extended beyond the edges of the leaves, one end of each plate being formed with a tongue and the other end being formed with a transverse slot, a second plate secured to the table and having a slot adapted for the reception of the adjacent tongues, and a locking device having a hooked portion passed through the slots in one of said plates, said locking device being carried by said table.

1,378,879. MOP-WRINGER. SIMEON C. LAWLOR, Chicago, Ill. Filed Feb. 17, 1919. Serial No. 277,474. 6 Claims. (Cl. 15—12.)



6. In a wringer, the combination of side plates, each having an offset portion and a flange upstanding from the offset portion adapted to be positioned above a receptacle, wringing rollers adapted, while in engagement with the upstanding flanges, to coöperate for wringing an article above the receptacle, and fluid-collecting means for the offset portions for directing fluid dripping from portions of the rollers into the receptacle.

1,378,880. ROAD-SURFACING MACHINE. JOSEPH W. LEE, Chicago, Ill., assignor, by mesne assignments, to American Road Plane, Incorporated, Wilmington, Del., a Corporation of Delaware. Filed May 5, 1919. Serial No. 294,779. 4 Claims. (Cl. 37—7.)

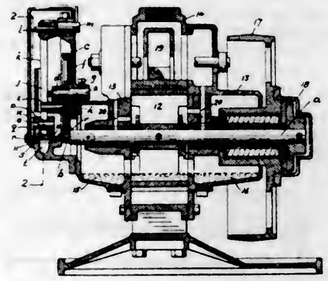


1. In a road-surfacing machine, the combination of a longitudinal frame having a wheeled support at one end and a shoe at the other end comprising a transverse plate adapted to slide over the surface of the ground, a scraper blade arranged intermediate of the frame supports diagonally of the frame, a scarifying device arrranged ahead of the scraper blade and comprising a plurality of prongs adapted to engage and tear the surface of the ground, and means for adjusting the scraper blade and scarifying device to and from the surface of the ground.

1,378,881. MASTER-PULSATOR FOR MILKING-MACHINES. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 26, 1920. Serial No. 361,609. 16 Claims. (Cl. 31—99.)

1. In a master pulsator, the combination of a driving shaft, a pinion thereon, a gear in driving engagement with the pinion, a slotted pendulum, a crank on the gear engaging the slot of the pendulum, a ported valve seat, and a valve reciprocable on said seat and operable by the pendulum.

4. In a master pulsator for milking machines, the combination of a valve seat, having a pulsation port and a vacuum port, a reciprocatory valve slidable on the valve seat and having a cavity adapted in one position to connect the pulsation port with the atmosphere and in another position to connect the pulsation port with the vacuum port, pendulum carrying the valve, and means to oscillate the pendulum.



7. In a master pneumatic pulsator, the combination with a driven shaft adapted to carry any one of several sizes of pinion, and a geared crank drivable by said pinion, of a crank bearing securely adjustable to cause proper meshing of the gear with the desired size of pinion.

9. In a master pulsator for milking machines, the combination of a valve seat having a pulsation port and a vacuum port, a reciprocatory valve slidable on the valve seat and having a cavity adapted in one position to connect the pulsation port with the atmosphere and in another position to connect the pulsation port with the vacuum port, a pivoted pendulum carrying the valve, means to oscillate the pendulum, and means to adjust the pivot of the pendulum to vary the relative lengths of time during which the pulsation port is connected with the atmosphere and the vacuum port respectively.

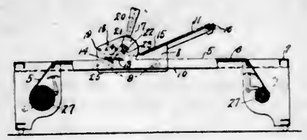
12. In a master pulsator, the combination of a driving shaft, a pinion thereon, a gear meshing with the pinion, a ported valve seat, a valve reciprocable thereon, an oscillatable pendulum carrying the valve, means to oscillate the pendulum from the gear, an adjustable eccentric bearing on which the gear is turnable and an adjustable eccentric pivot on which the pendulum is oscillatable.

1,378,882. PROCESS OF PRODUCING TUNGSTEN LAKES. ARTHUR LINZ, New York, N. Y., assignor to The Chemical Foundation Incorporated. Filed Jan. 19, 1921. Serial No. 438,449. 13 Claims. (Cl. 8—6.)

2. The process of producing a color-lake which comprises precipitating a coloring matter by means of a soluble compound of tungsten, a soluble compound of phosphorus and a suitable acid which will form a double salt of tungsten in the presence of a coloring matter without destroying the latter.

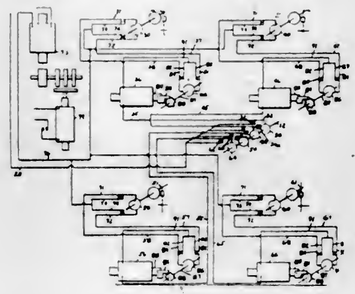
1,378,883. APPARATUS FOR DUPLICATING TYPEWRITTEN MATTER. HANS K. LORENTZEN, New York, N. Y. Filed Sept. 17, 1917. Serial No. 191,710. 8 Claims. (Cl. 101—133.)

1. Duplicating apparatus comprising an impression member, a carriage traversing the same, means for side registering a sheet on the carriage, a slidable front register on the carriage, a presser member on the carriage, means for lowering and raising said presser member and means coacting with said front register and the presser member for sliding the said register out of or into reg-



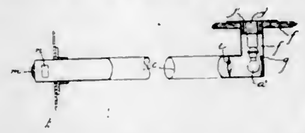
istering position according to the lowering and raising of said presser member.

1,378,884. COINCIDENT MAXIMUM-DEMAND RELAY. ERVING A. LUEKY and ROY N. HOUGHTON, Detroit, Mich. Filed Apr. 7, 1920. Serial No. 372,051. 12 Claims. (Cl. 234—5.5.)



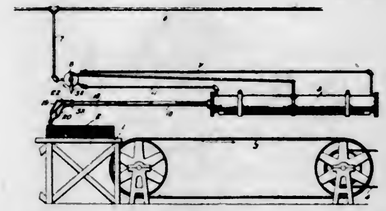
3. In an electrical totalizing and recording mechanism, in combination with a plurality of individual circuits, a timing member with which each circuit is adapted to be operatively connected, a solenoid member interposed between each individual circuit and the point of contact between its terminal and the spindle of said timing member, and means appurtenant to each of said solenoids whereby a current from its corresponding individual circuit may be selectively directed into one or the other of equivalent energizing paths about the solenoid, and means on the timing member for successively making and breaking the contacts of the circuits leading theretoward from the individual circuits and the solenoids, whereby the possible registration of their several impulses is according to a variant time unit from that prevailing in the individual circuits.

1,378,885. LIGHTING SYSTEM OF VEHICLES. DONALD MACDONALD, Melbourne, Victoria, Australia. Filed Sept. 14, 1920. Serial No. 410,276. 3 Claims. (Cl. 240—8.)



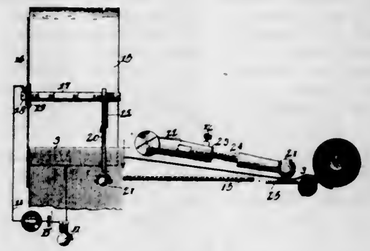
1. In a vehicle lighting system, a tube having at one end an opaque side wall and transparent closures at the opposite side wall and at its end, means for projecting light rays into the other end of the tube, and a reflector arranged between said transparent end and oblique side wall whereby to reflect certain of the light rays laterally through said transparent portion in the opposite side wall for effecting the projection of light rays from the end and one side of said tube.

1,378,886. METAL-SHEET-PACK-SEPARATING DEVICE. DANIEL L. MAINERI, Canton, Ohio, assignor to The Berger Manufacturing Company, Canton, Ohio. Filed Dec. 16, 1920. Serial No. 431,225. 3 Claims. (Cl. 271—54.)



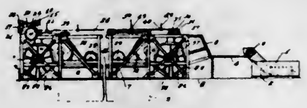
1. In a sheet separating device, a cylinder, a reciprocating rod within said cylinder and projecting therefrom, a pair of tongs carried by said reciprocating rod, means whereby the said reciprocating rod can be projected from the said cylinder or withdrawn therein and means for causing the said tongs carried by the said rod to open as the said rod is projected and to close as the said rod is withdrawn.

1,378,887. PAPER-FEED ALARM FOR ADDING-MACHINES. THOMAS PUGH MARTIN, Jr., Oklahoma, Okla. Filed May 20, 1918. Serial No. 235,529. 4 Claims. (Cl. 200—52.)



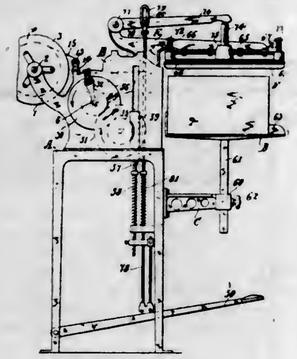
1. A circuit closer adapted to be used in a paper feed alarm, comprising a metallic paper-supporting member, paper contacting means including a ball having a swinging supporting arm reaching over the paper; an insulating mounting for said arm on said paper supporting member, means assisting the gravitation of the ball into engagement with the paper, and means operatively associated with the swinging arm and mounting, enabling the extension of the ball over the paper to dispose the ball over a different point of contact.

1,378,888. GALVANIZING-MACHINE. CONSTANTINE G. MILLER, Chicago, Ill., assignor to Meaker Galvanizing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1920. Serial No. 367,082. 14 Claims. (Cl. 204—5.)



1. In a galvanizing machine, a tank of electrolytic solution, an endless conveyer thereabove, hook members carried thereby, a rotatable hub member, and spring controlled means hingedly connected to said rotatable hub member for automatically feeding articles to said hook members to permit the conveyer to carry the articles through the electrolytic solution.

1,378,889. AUTOMATIC SEALING-MACHINE. CHARLES GRENOUGH MORTIMER, East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1913, Serial No. 808,943. Renewed Aug. 3, 1917. Serial No. 184,357. 2 Claims. (Cl. 216—25.)



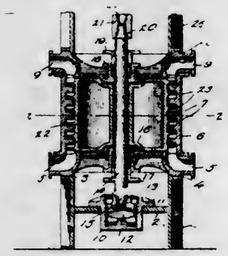
1. In a sealing machine the combination of means for presenting strips of moistened adhesive tape of various lengths in position for application to a package, a package support adjacent said strip-presenting means and in advance thereof and in the direction of movement of the strip, a presser movable toward and away from the package on said support for applying the strip thereto, and a treadle for operating both said strip-presenting means and said presser upon its down stroke, said treadle having a lost-motion connection with said presser of sufficient amplitude to permit the full operation of the strip-presenting means before the presser engages the package.

1,378,890. CLOTHESPIN. JOHN MUCK, Milwaukee, Wis. Filed Dec. 2, 1919. Serial No. 341,844. 5 Claims. (Cl. 24—139.)



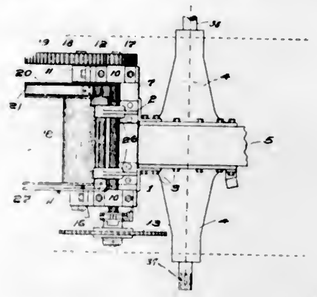
1. A clothes pin comprising elongated loops, rounded ends at the extremities of each loop, a cap therefor, said cap having a draining hole in the outer portion thereof.

1,378,891. ROTARY PUMP. PAUL H. MUSSWITZ, Vallejo, Calif. Filed Mar. 1, 1920. Serial No. 362,373.. 4 Claims. (Cl. 253—182.)



3. A rotary pump comprising a stator having an inlet and an outlet opening, a rotor mounted in the stator, means for driving the rotor, blades formed on the exterior of the rotor, said blades being arranged in staggered relation and inclined with the ends of the adjacent blades overlapping, one end of each blade being beveled on the lower face and the opposite end beveled on the upper face.

1,378,892. TRACTOR. CHARLES W. MYERS, Franklin, Pa. Filed June 28, 1920. Serial No. 392,358. 4 Claims. (Cl. 254—166.)



1. In a tractor of the farm type having an automotive organization which includes a motor, propelling wheels, transmission gearing, also a differential gear, transmitting power from said motor to said wheels, a winding drum carried by the housing of the differential gear of said gearing, and gearing other than said transmission gearing, arranged to transmit power from the motor to said drum.

1,378,893. EDUCATIONAL TOY. PETER S. H. NEWELL, Leonia, N. J. assignor to The Diamond Toy Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1920. Serial No. 416,838. 4 Claims. (Cl. 35—9.)



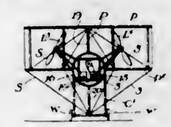
1. An educational toy comprising a suitable casing having at least two-spaced apart sight openings therein, and an element mounted within said casing for movement in a continuous path, said element having on its face a row of figures or subjects and a corresponding row of names for the respective figures or subjects, the two rows being so coördinated that as the said element is advanced the letters of a name are progressively presented to one opening and the correspondingly named figure or subject is presented to the other opening of the casing.

1,378,894. PACKING-RING. EDWARD R. NORMAN, Chicago, Ill. Filed Nov. 28, 1917. Serial No. 204,312. 1 Claim. (Cl. 74—109.)

A one-piece packing ring of uniform radial thickness throughout and having a joint formed by its meeting ends and an eccentric channel in its outer surface terminating short of the meeting ends and being deeper near the joint than in the other portions of ring and providing the concentric ring with an outer oil groove and with the equal radial pressure of the eccentric type of ring.



1,378,895. AEROPLANE. JOHN ELLIS PEARSON, Mimosa, N. C. Filed Feb. 13, 1920. Serial No. 358,512. 4 Claims. (Cl. 244—14.)



1. An aeroplane comprising, a fuselage, a vertical plane comprising an upper section and a lower section arranged at diametrically opposite points on said fuselage and coextensive in length therewith, a horizontal plane comprising sections disposed at diametrically opposite points of the fuselage and coextensive in length therewith, and a second horizontal plane disposed above the first horizontal plane and the fuselage.

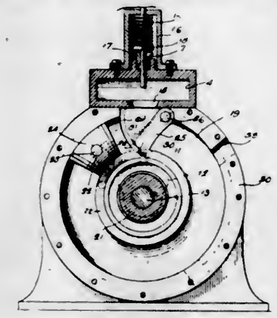
1,378,896. MANUFACTURE OF SERUMS FROM ANIMALS, EXCLUDING MAN. WILLIAM JAMES PENFOLD, Brunswick, Victoria, Australia. Filed Sept. 14, 1920. Serial No. 410,204. 3 Claims. (Cl. 167—7.)



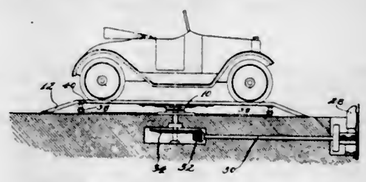
3. An improved method of serum production consisting of receiving the blood from the animal (excluding man) into vessels containing an anti-clotting agent (such as oxalate solution) allowing the blood to stand until the red cells sediment, separating the supernatant plasma, adding a clotting agent (such as a lime salt) to the plasma, separating the serum from the plasma, filtering the red cells and returning the red cells to the blood vessels of the animal substantially as described.

1,378,897. ROTARY ENGINE. OLEF E. PETERSON, Idaho Falls, Idaho. Filed Oct. 7, 1918. Serial No. 257,155. 6 Claims. (Cl. 123—15.)

1. In a rotary engine, a stator having a circular bore therein, a rotor including a piston for travel in said bore, a movable abutment, normally extending across said bore and adapted to be forced out of the bore to allow a complete revolution of the rotor, laterally extending guide lugs formed upon said abutment, said stator provided with guideways receiving said guide lugs, and springs positioned in the inner end of said guideways to cushion the inward movement of said abutment.

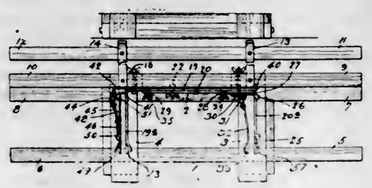


1,378,898. AUTOMOBILE-TURNTABLE. GEORGE C. POTTS, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,786. 6 Claims. (Cl. 104—36.)



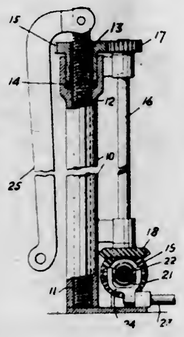
1. In a device of the class described, the combination of a pair of channel shaped tracks, each track having its ends downwardly inclined and its middle horizontal portion elevated, said tracks being connected together and rotatably mounted by means of a connecting plate, a bearing member for supporting the plate including a pin projecting therefrom, a plate fixed to said pin and having a circular groove therein adapted for the insertion of ball bearings and with which a similar circular plate coöperates, the latter plate being rotatably mounted on said pin, a series of gears connected to the pin, and a driving means for the gears.

1,378,899. BOX-MAKING BENCH. WILLIAM G. PRICE, Yakima, Wash. Filed Apr. 12, 1920. Serial No. 373,239. 2 Claims. (Cl. 144—291.)



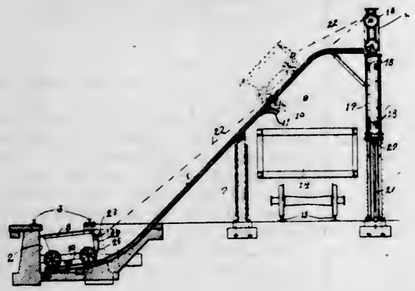
1. In a box making bench, the combination with a suitable frame of two oppositely disposed rigid box-end supports, a yielding clamping member arranged on the inside of one of said box-end supports, a yielding clamping member on the outside of the other rigid box-end support, said last-named clamping member comprising a swinging plate, and an oscillating plate hinged thereto.

1,378,900. LIFTING DEVICE. WILLIAM J. QUINN, Westgrove, Pa. Filed July 31, 1920. Serial No. 400,343. 2. Claims. (Cl. 254—103.)



1. A load lifting device comprising a screw, a lifting device pivoted to the lifting screw at one end, means for connecting the other end of the load lifting device to lift the load and to restrain the screw against rotation by the load to be lifted, a nut for raising the screw, a driving shaft parallel with the shaft, gearing connecting the shaft to the nut, and power actuated means arranged to be connected and disconnected with said shaft.

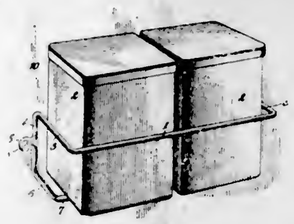
1,378,901. CONVEYER. WILLIAM ROBERTSON, Chicago, Ill. Filed July 3, 1917. Serial No. 178,488. 1 Claim. (Cl. 187—12.)



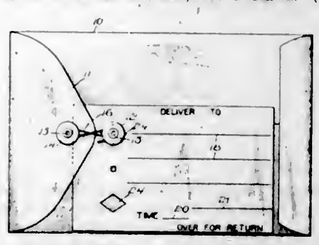
In a conveyer, a vertical cylinder, a piston in said cylinder, a hollow rod supporting said piston, an inlet from the interior of said rod into said cylinder just below said piston, a packing box in the lower end of said cylinder through which said rod passes, guides on the exterior of said cylinder and stationary vertical guideways coöperating therewith, sheaves supported on the upper end of said cylinder, and coöperating sheaves supported above the first named sheaves by said guideways, and a cable working over said sheaves whereby on admission of fluid under pressure into said hollow rod, the cylinder will descend and a pull be exerted on said cable.

1,378,902. SPICE-CAN HOLDER. EMIL WILLIAM ROEHL, Spokane, Wash. Filed Jan. 12, 1921. Serial No. 436,754. 2 Claims. (Cl. 248—20.)

2. A rack or holder composed of a single length of wire bent to form an upper longitudinal guard rail, terminating at its ends in right-angularly bent end rails of equal length, each joined to downwardly directed posts or attaching portions, having outwardly extending screw eyes formed therein, the lower ends of said posts being connected to outwardly directed lower connecting arms parallel to and directly beneath the said end rails and substantially one-half the length thereof, the lower arms having their terminals directed inwardly toward each other and secured together to form a supporting bar or rail for cans.

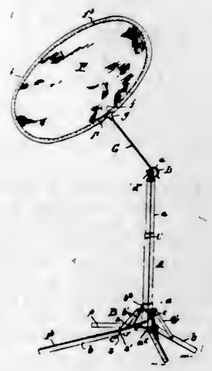


1,378,903. DELIVERY AND RETURN SLIP FOR ENVELOPS. ALBERT R. SCHOREK, Chicago, Ill. Filed Feb. 2, 1920. Serial No. 355,575. 1 Claim. (Cl. 40—5.)



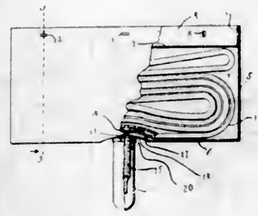
A slip, for the purpose set forth, provided with indicia on one side indicating the space for the name of the addressee, and indicia on the reverse side indicating the space for the return address, said slip being also provided near its margin with a plurality of apertures of varying contour, whereby the slip is adapted to be attached to and securely held, during the cycle of travel, by receptacle closure devices of varying constructions.

1,378,904. PHOTOGRAPHER'S HEAD-SCREEN. JULIUS JOE SCHUERMANN, Clinton, Iowa. Filed Sept. 2, 1920. Serial No. 407,666. 11 Claims. (Cl. 95—82.)



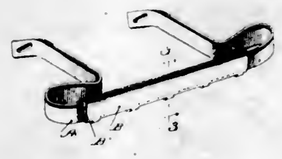
1. A photographer's head screen comprising an annular frame and a fabric cover having an edge portion turned over toward the middle of the screen and inclosing the annular frame.

1,378,905. TIRE-TUBE CONTAINER. WILL SCHULDT, Arlington township, Woodbury county, Iowa. Filed Dec. 19, 1919. Serial No. 346,109. 2 Claims. (Cl. 206—1.)



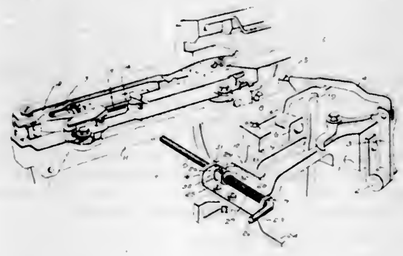
1. A container for pneumatic tire-tubes having valve-tubes, including a walled inclosure having an opening through which a tire-tube may be introduced into the inclosure, a closure for the opening, a wall of said inclosure having an opening through which the valve-tube may be extended, whereby the tube may be inflated from the exterior of the inclosure, opposite walls of the inclosure being provided with registering apertures above the closure, and cross pins removably-inserted in the apertures to prevent displacement of the closure when the tire-tube is inflated.

1,378,906. AUTOMOBILE-BUMPER. JOHN W. SIMMONS, Cleveland, Ohio. Filed Jan. 4, 1921. Serial No. 434,882. 5 Claims. (Cl. 293—55.)



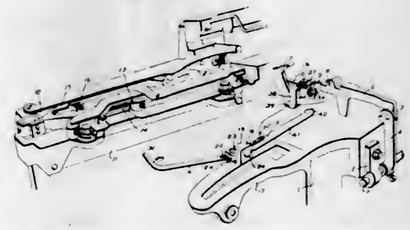
1. An automobile bumper having a sheet metal cover applied to the front member thereof to impart a finish thereto.

1,378,907. FEELER-MOTION FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 9, 1919. Serial No. 309,596. 3 Claims. (Cl. 139—85.)



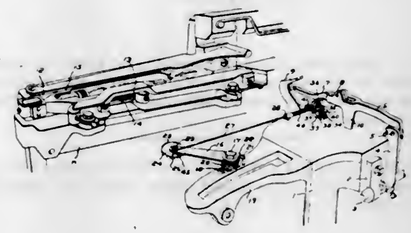
1. In a feeler motion for looms, the combination of a feeler stand having front and rear bearings, a feeler mounted in said bearings for rotative and longitudinal movements, a spring normally tending to rotate the feeler and hold it in rearward position, a feeler setting arm extending laterally from the feeler in front of the front bearing, a setting cam extending frontward from the feeler stand, a collar adjustably connected to the feeler between the two bearings and independent of the setting arm, and a replenishing finger secured to the adjustable collar.

1,378,908. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 10, 1919. Serial No. 343,721. 13 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler having a rearwardly extending and rigidly connected filling engaging end, a fixed pivot for the feeler with respect to which it is swung and also moved in a direction longitudinally of the shuttle by the push of the filling on each detecting beat until substantial exhaustion thereof, and means controlled by the feeler for effecting replenishment of filling when the feeler fails to be moved longitudinally of the shuttle on a detecting beat.

1,378,909. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 10, 1919. Serial No. 343,722. 14 Claims. (Cl. 139—85.)

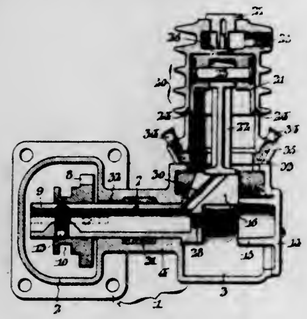


1. In a feeler mechanism for looms, the combination of a feeler carrier pivotally supported by the loom frame for swinging movement toward and from the front of the loom, a wheel mounted on the swinging end of the feeler carrier and provided with teeth which engage the filling and cause the wheel to be turned relative to the feeler carrier on a detecting beat until the filling is substantially exhausted, and means connected to the toothed wheel for effecting replenishment of filling when the wheel fails to be turned relative to the feeler carrier on a detecting beat.

1,378,910. AIR-PUMP. JOHN W. SMITH, Philadelphia, Pa. Filed May 8, 1920. Serial No. 379,782. 4 Claims. (Cl. 230—27.)

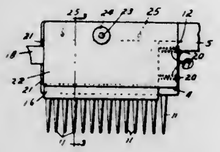
1. In an automobile tire-pump, the combination of a crank and gear casing adapted to be secured to the automobile gear case and having a gear chamber receiving lubricant from said gear case and a separate crank chamber; and a crank shaft for the pump extending from said gear chamber to said crank chamber and having a crank and a crank-pin, with means of passage via the shaft from said

gear chamber to the bearing surface of the crank-pin; so that lubricant may be supplied therethrough from the



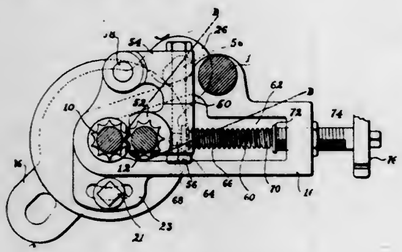
automobile gear case to lubricate the crank-pin of the pump without access of such lubricant to the air space of the pump to contaminate the air.

1,378,911. HAIR-CUTTING DEVICE. WILBERT H. STAHR, Elgin, Ill., assignor of one-half to Albert D. Smith, Elgin, Ill. Filed May 14, 1920. Serial No. 381,262. 7 Claims. (Cl. 30—12.)



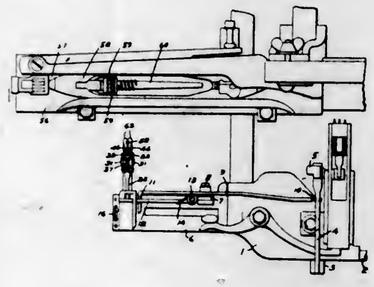
1. A hair-cutting device comprising a body; a blade mounted for movement on the body; and teeth mounted for movement transversely with respect to the cutting edge of the blade.

1,378,912. TEXTILE-MACHINE. HARRY STEPHENSON, Andover, Mass. Filed Nov. 5, 1919. Serial No. 335,851. 16 Claims. (Cl. 19—24.)



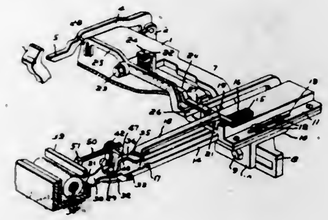
14. A device for drawing-off wool having, in combination, a supporting frame, a stationary roll carried thereby, a coöperating movable roll, and bearing blocks for the respective ends of said movable roll, each comprising two parts for respectively carrying the roll and pivotally mounting the blocks on the supporting frame about coincident axes extending parallel to said stationary roll, said parts being pivotally connected together about parallel axes lying in planes extending normal to said movable roll.

1,378,913. FEELER MECHANISM FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 30, 1920. Serial No. 355,066. 14 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler carrier, a feeler support mounted on the feeler carrier for lateral movement relative thereto, two feelers pivotally mounted upon the feeler support, a projection carried by the shuttle to coöperate with the feelers, and yielding means acting to hold the feeler support in normal position and permit the feeler support to be moved laterally relative to its carrier by said projection.

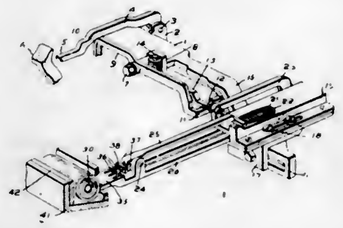
1,378,914. FEELER MECHANISM FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 4, 1920. Serial No. 363,175. 7 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler carrier, a feeler mounted on the feeler carrier for movement in a direction longitudinally of the shuttle and having a filling engaging end with a central portion extending rearwardly beyond the side portions, yielding means normally acting to center the feeler relative to the feeler carrier to cause the central portion of the engaging end of the feeler to engage the filling and yieldable to permit the feeler to be moved in a direction longitudinally of the shuttle by the frontward pressure of a bunch of filling on the filling carrier, a lock which prevents responsive movement of the feeler to the push of the bunch until the bunch itself is nearly exhausted, and means for freeing the feeler from the lock only when the bunch has been depleted to a predetermined amount.

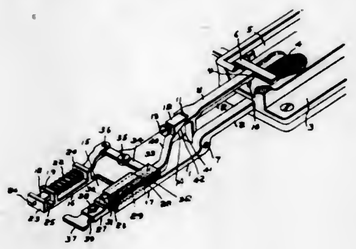
1,378,915. FEELER MECHANISM FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 4, 1920. Serial No. 363,176. 9 Claims. (Cl. 139—85.)

4. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom and having a stepped rear portion adapted to engage and to be moved frontwardly by the filling on a detecting beat until substantial exhaustion thereof, and to then engage stepped portions of the bobbin, a plurality of feelers, one feeler being associated with each stepped portion of the feeler carrier, each



being independently movable on the carrier, and an actuator which is rendered effective to replenish the filling when all of the feelers fail to be moved frontwardly by the stepped portions of the bobbin on a detecting beat.

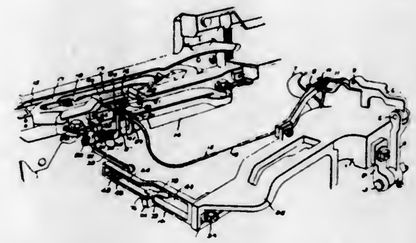
1,378,916. FEELER MECHANISM FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 19, 1920. Serial No. 367,038. 14 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom and having rearwardly extending legs or supports, a penetrating feeler member mounted on one of the legs or supports and provided with a cap or contact portion having a rearwardly extending penetrating point, an impinging feeler mounted on another of the legs or supports and having an impinging rear end, a lever pivotally mounted on the feeler carrier and connected to the two feelers to cause rearward movement of the impinging feeler by frontward movement of the penetrating feeler when the filling is substantially exhausted on a detecting beat, an actuator on the feeler carrier, and a cam between the actuator and impinging feeler to operatively position the actuator for effecting replenishment of filling when the impinging feeler is moved rearwardly by frontward movement of the penetrating feeler on a detecting beat.

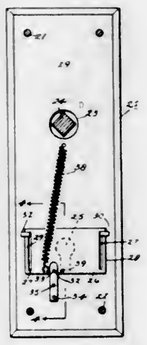
1,378,917. FEELER MECHANISM FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 27, 1920. Serial No. 384,612. 22 Claims. (Cl. 139—85.)

1. In a feeler mechanism for looms, a feeler mounted on the lay, a controlling arm also mounted on the lay, yielding connections between the feeler and controlling arm tending to move the feeler into the shuttle-box, a stop between the arm and feeler which prevents movement of the feeler into the shuttle-box until the arm is moved in a substantially vertical plane, a guide mounted in a fixed position, a projection on the arm which moves along the guide as the lay beats up, and a cam for moving the arm in a vertical plane in one direction as the lay



moves frontwardly and in the opposite direction as the lay moves rearwardly, said cam constructed and arranged to move the arm more rapidly in one direction than in the other.

1,378,918. KEYHOLE-GUARD. JOHN TOMASZEWSKI, Taunton, Mass. Filed June 18, 1920. Serial No. 389,804. 2 Claims. (Cl. 70—8.)

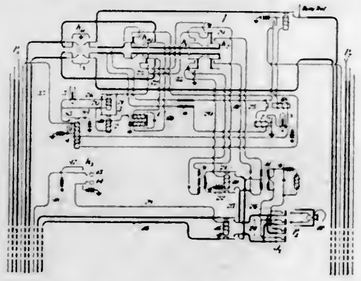


1. A key-hole guard of the character described comprising a plate adapted to be secured to a door over a lock in spaced relation to said door and having a key-hole, a sliding locking plate on the rear face of said first named plate provided with a plurality of perforations, means for guiding said locking plate during its operation, a leaf spring secured to said plate, a pin on said spring adapted to engage in one of the perforations of said locking plate, means for interrupting the engagement between said pin and said locking plate, and means for returning said locking plate into its locking position after each operation of the lock.

1,378,919. PORTABLE REPEATER APPARATUS. JOHN F. TOOMEY, New York, N. Y., and CHARLES G. SPENCER, East Orange, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 22, 1919. Serial No. 284,286. 4 Claims. (Cl. 179—170.)

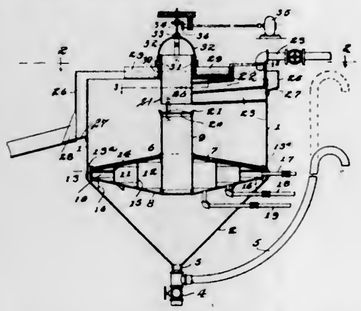
2. In a telephone system, a cord circuit for interconnecting transmission lines, supervisory signaling apparatus associated therewith, a repeater set associated with the terminal arrangements of said cord circuit, switching means whereby said repeater set may be connected to said

terminal arrangements in place of said cord circuit, means in said repeater set responsive to signaling currents when



said repeater set is connected to said terminal arrangements for connecting said cord circuit to said terminals in place of said repeater set.

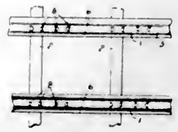
1,378,920. PROCESS OF AND APPARATUS FOR SEPARATING ORE MATERIALS FROM EACH OTHER. ROBERT SAFFORD TOWNE, New York, N. Y., and FREDERICK B. FLINN, Orange, N. J., assignors, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 12, 1914, Serial No. 861,433. Renewed Jan. 5, 1920. Serial No. 349,639. 13 Claims. (Cl. 83—85.)



1. In an apparatus for separating the metalliferous from the non-metalliferous ingredients of an ore mass, the combination of a pulp receptacle having a conical bottom with a discharge opening therein, a porous plate mounted in the lower part of the receptacle with its periphery spaced slightly from the walls of the receptacle, means for supplying air under pressure below the said porous plate and forcing it therethrough to form relatively large substantially uniformly distributed air bubbles, throughout the area of the receptacle and means for supplying ore pulp to the receptacle above the said porous plate, the said pulp being acted upon by the said bubbles to remove the metalliferous ingredients therefrom flowing downward and outward over the periphery of the plate and into the space below it.

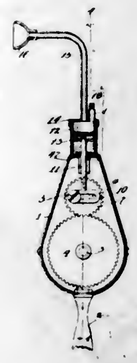
1,378,921. FOUNDATION FOR SPRING STRUCTURES. DESIRE H. VAN HOVE, Jackson, Mich., assignor to The Jackson Cushion Spring Company, Jackson, Mich., a Corporation of Delaware. Filed Aug. 13, 1920. Serial No. 403,297. 3 Claims. (Cl. 5—29.)

1. A foundation for spring structures including channel strips or members composed of intermediate channel portions and flat side portions, and intersecting or connecting strips or members fitted against the flat side portions of the channel members and provided at intervals with bent portions extending into and fitting the channels of the channel portions to interlock the said strips or members, and tongues formed integral with the channel strips or



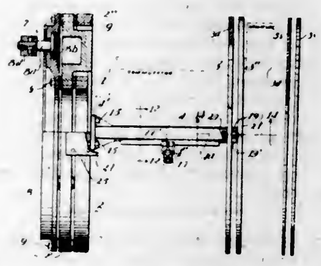
members and extending into the channels thereof and engaging the connecting strips or members to secure the said strips or members in their interlocked relation.

1,378,922. INTERMITTENT-VACUUM MASSAGE-MACHINE. GEORGE A. WARD, Chicago, Ill. Filed May 31, 1919. Serial No. 300,827. 4 Claims. (Cl. 128—40.)



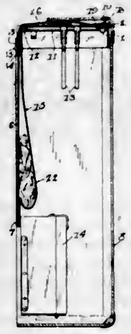
2. The combination with a device adapted to rapidly produce and release a pressure, of a pad applicator connected therewith and having a chamber therein, and a plurality of cells formed on the applicator and each provided with an opening communicating with said chamber.

1,378,923. SUPPORT FOR BRUSH-HOLDERS. WALTER J. WARDER, Jr., Chicago, Ill. Filed Jan. 17, 1918. Serial No. 212,221. 20 Claims. (Cl. 171—324.)



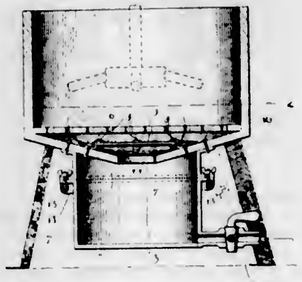
10. Brush holder supporting means for dynamo-electric machines comprising an even numbered series of studs adapted to receive the brush holders, a compound yoke ring whereon said studs are mounted, and a pair of equalizing rings secured to said studs opposite from said yoke ring, each group of alternate studs being in electrical contact both with one of the yoke ring members and with one of the equalizing rings respectively.

1,378,924. TRUNK LAUNDRY-BAG AND COVER. GEORGE HENRY WHEARY, Racine, Wis. Filed Jan. 31, 1918. Serial No. 214,564. 6 Claims. (Cl. 190—13.)



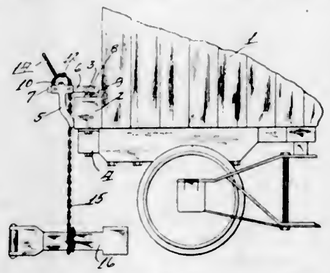
1. The combination with a trunk wardrobe section having an open top and front, and a garment hanger track and hangers mounted thereon, of a laundry bag and cover therefor, comprising a material covering the open top and open front portion, said portion covering the open front being in the form of a bag having a front opening, and means connecting the upper and lower edge portions of the material to trunk section portions.

1,378,925. WASHING-MACHINE. HARRY WAYNE WHITE, Emporia, Kans. Filed Mar. 18, 1920. Serial No. 366,771. 2 Claims. (Cl. 68—15.)



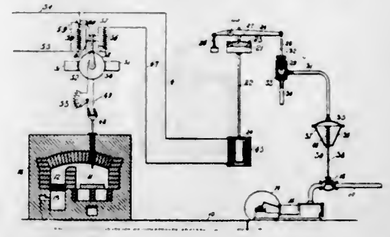
2. A washing machine comprising a receptacle having a funnel shaped bottom provided with a discharge opening, a baffle extending over said opening in spaced relation to said bottom, and a sediment receiving and trapping receptacle arranged beneath said opening and having its upper end closed by said funnel shaped bottom.

1,378,926. DRAWBAR-MOUNTING MACHINE. HERBERT W. WIENKE, Michigan City, Ind. Filed Feb. 9, 1920. Serial No. 357,160. 2 Claims. (Cl. 254—186.)



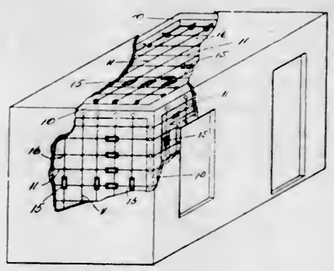
1. The combination with a freight car and the deadhead and deadhead bolts thereof, of a rod adapted to be mounted on said deadhead behind said bolts, and a drawbar mounting machine adapted to removably engage said rod and contact said deadhead to afford a means for raising a drawbar into a position for attachment to said freight car.

1,378,927. TEMPERATURE-REGULATOR. GEORGE S. WITHAM, Jr., Hudson Falls, N. Y. Filed Aug. 1, 1916. Serial No. 112,481. 2 Claims. (Cl. 236—69.)



1. Apparatus for regulating the temperature of the combustion chamber of a furnace comprising, in combination, means for producing a draft through said combustion chamber, means for actuating said draft-producing means, means within the furnace for producing electromotive forces proportional to the temperatures therein, a bulb containing vapor, a capsule connected to said bulb, means for producing changes of vapor pressure in said capsule in response to changes in electromotive force produced by said means within the furnace, a controlled air line, a valve in said line adapted to be actuated by the capsule, and means responsive to variations of pressure in said controlled air line for controlling the means for actuating the draft-producing means.

1,378,928. BUILDING CONSTRUCTION. JOSEPH R. WITZEL, Tacony, Pa. Filed June 22, 1920. Serial No. 390,739. 1 Claim. (Cl. 72—1.)

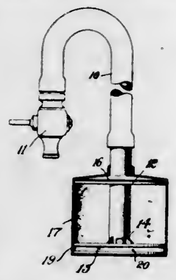


In a building construction, the combination of a supporting structure, means as nails secured to said structure so as to leave a projected part of each nail, vertically and horizontally disposed tensile mediums as wires secured to said nails by windings, said wires being extended across said structure to form a net work, an adjustable device interposed between the secured ends of each and every tensile medium for regulating the tension thereof and a covering of cementitious material applied to said net work of wires.

1,378,929. SIPHON-FILTER. JOSEPH WURSCHER, St. Paul, Minn. Filed Mar. 11, 1920. Serial No. 364,987. 3 Claims. (Cl. 210—94.)

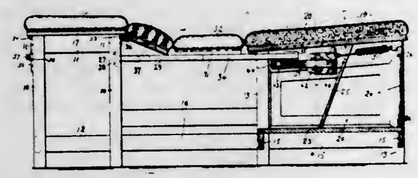
1. A siphon head consisting of an axial tube having thereon a pair of spaced circular disks with one of which one closed end of the tube is integral, said tube having a series of apertures through its wall adjacent to the inner surface of the last mentioned disk forming com-

municating passageways between its bore and the space between the disks, and having its opposite end projecting beyond the outer surface of the other disk to form a connecting nipple, and a straining member of bag-like form



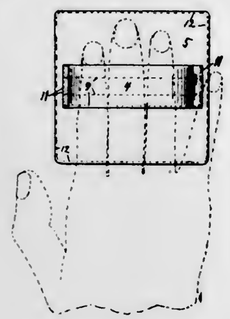
extending around the two disks and having a neck portion secured around the projecting end of the stem and a portion extending between the disks and forming an annular wall for the said space between the disks.

1,378,930. OPERATING-TABLE. FRANK ZAMECNIK, Washington, D. C. Filed Oct. 20, 1920. Serial No. 418,204. 3 Claims. (Cl. 128—72.)



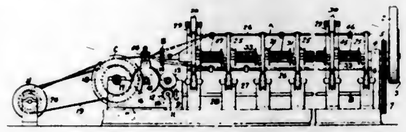
1. A table device of the class described comprising a forward body support, a rear body support, a forward intermediate body support, a rear intermediate body support, means for yieldably supporting said intermediate body support, and means whereby the depression of the intermediate body supports causes the elevation of the rear body support.

1,378,931. WINDSHIELD-CLEANING COMPOSITION. FRANK H. ADLER, Minneapolis, Minn. Filed June 17, 1919. Serial No. 304,935. 1 Claim. (Cl. 87—5.)



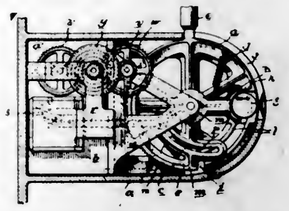
A mixture for the purposes set forth, said mixture being in the form of a powder and composed of the following ingredients in about the following proportions: one pound machine oil, two pounds turpentine, sixteen pounds tobacco, sixteen pounds bran and one hundred and forty-four pounds of wood ashes.

1,378,932. MACHINE FOR MAKING WIRE ROPE. ALBIN E. ANDERSON, Oakmont, Pa., assignor to Pittsburgh Wire Rope Company, Verona, Pa., a Corporation of Pennsylvania. Filed Feb. 25, 1920. Serial No. 361,165. 4 Claims. (Cl. 28—21.)



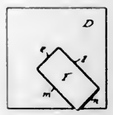
4. In a machine for making wire rope the combination of a rotatable frame comprising a plurality of circular spiders, a plurality of standards, anti-friction rollers carried by the said standards and supporting the said spiders, anti-friction rollers engaging above certain of the said spiders, longitudinal rods connecting the said spiders, bearings carried by the said spiders, shafts having squared ends received in the said bearings, slidable keys adjacent to the said bearings for holding the said shafts in place, and spring-pressed means for positioning the said keys.

1,378,933. COIN-CONTROLLED ELECTRIC SWITCH. JOHN GILBERT BASSETTE, Groton, N. Y., assignor to Groton Electrical Devices Inc., Groton, N. Y., a Corporation of New York. Filed Oct. 28, 1918. Serial No. 260,004. 8 Claims. (Cl. 194—84.)



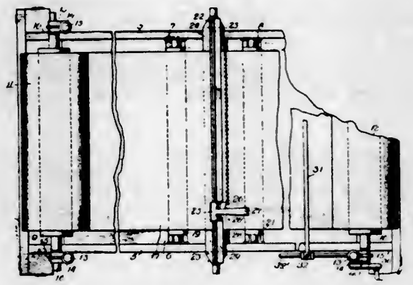
1. In an apparatus of the class set forth, an electric switch, a pair of members adapted to be interlocked by a coin, one of said members being manually operable and the other coin-operated, a spring, means adapted to tension this spring when the coin-connected members are operated, said means serving through the action of the spring to return the coin-operated member to normal position after delivery of the coin, devices for closing the switch by the manual stroke of the coin-operated member upon delivery of the coin and maintaining it closed during the return of the coin-operated member to normal position.

1,378,934. DISPLAY DEVICE. RICHARD C. BEATTY, Chicago, Ill. Filed May 13, 1920. Serial No. 381,046. 2 Claims. (Cl. 211—24.)



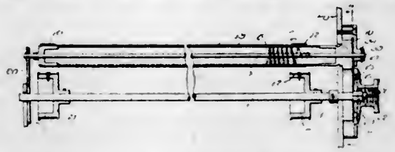
1. A display for cartons consisting of an unstable holding element adapted to rest in an upright position upon a plane support on one or more points along its supporting edge, an opening in the holding element adapted to receive a carton laterally inclined angularly with respect to the bottom edge of the holding element, so the said edge of the holding element in combination with the lowermost edge of the inclined carton will form a stable base for the structure.

1,378,935. CUTTING-MACHINE. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 18, 1919. Serial No. 318,190. 7 Claims. (Cl. 164—73.)



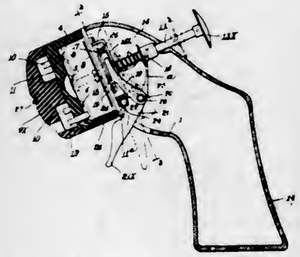
1. The combination of a frame, means for supporting a roll of stock thereon, a continuous carrier, means for moving the carrier through the machine to carry the stock from the roll through and beyond a cutting position, and means for separating the carrier from the stock at cutting position.

1,378,936. SHUTTER MECHANISM FOR CAMERAS. FREDERICK G. BROCKETT, Chicago, Ill. Filed Dec. 22, 1919. Serial No. 346,460. 3 Claims. (Cl. 95—57.)



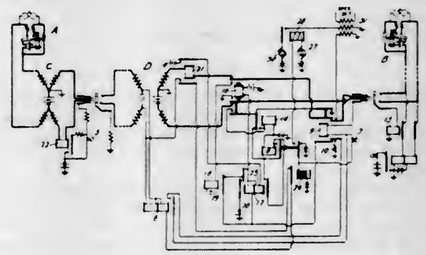
1. A camera shutter comprising two curtain sections arranged end to end, rollers to which the remote ends of said sections are attached; tapes fastened to the free end of one section, passing around guides on the free end of the other section and extending back lengthwise over the first section; a roller to which the other ends of the tapes are fastened; and gearing between the tape roller and the roller to which is attached the curtain section to which the ends of the tapes are fastened; the parts being so proportioned and arranged that the tapes are wound up and unwound more slowly than the curtain section attached to the roller to which the tape roller is geared so as to increase the size of the shutter opening during the opening movement of the shutter.

1,378,937. TROUBLE-FINDER FOR INTERNAL-COMBUSTION ENGINES. GUILLERMO PÉREZ CASTRO, New York, N. Y. Filed June 22, 1920. Serial No. 390,782. 5 Claims. (Cl. 175—183.)



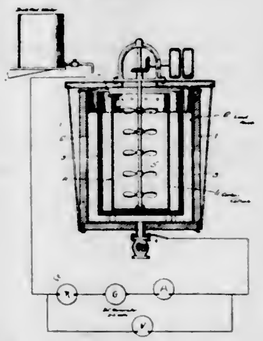
1. In a device of the character described, a series of contacts adapted to be electrically connected to the spark plugs of a multi-cylinder engine, a plate adapted to be grounded, a shaft carrying the said plate, and means for rotating and reciprocating the shaft to move the plate into and out of engagement with specific contacts.

1,378,938. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1916. Serial No. 122,011. 5 Claims. (Cl. 179—49.)



1. A telephone exchange system comprising a trunk circuit extending from a first to a second central office, a cord circuit at the first central office connected with the trunk circuit, a signaling device in the trunk circuit and located at the second central office, telephone lines terminating at the second central office, a supervisory relay in the trunk circuit energized upon connection thereof with a busy line over a circuit including the contacts of the switchhook, and apparatus controlled by the supervisory relay for causing the intermittent operation of the signaling device.

1,378,939. PROCESS OF MAKING THYMOL FROM NITROCYMENE. ROBERT M. COLE, Sandusky, Ohio. Filed Dec. 3, 1919. Serial No. 342,290. 7 Claims. (Cl. 204—9.)



1. The process of making thymol which consists in the electrolytic reduction of nitro-cymene and the diazotization and reduction of the resulting 1 methyl 2 amino 4 isopropyl 5 hydroxy benzol.

1,378,940. AMPLIFIER FOR TELEPHONIC TRANSMITTERS. HARRY T. DALE, New York, N. Y. Filed Mar. 31, 1919. Serial No. 286,274. 1 Claim. (Cl. 179—182.)

As an article of manufacture, a removable slip cover for a telephonic transmitter, said cover having a relatively thick annular wall and a top, the center whereof is pierced to form a single contracted opening, said top hav-

ing an annular rigid portion adjacent and integral with said annular wall; and a thin vibrant portion integrally

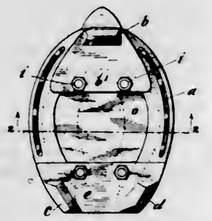


formed with said annular portion adjacent the said opening for forming a sensitive vibrant member for amplifying the acoustic vibration under said top.

1,378,941. APPARATUS FOR HIGH-TEMPERATURE USES. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed Aug. 25, 1919, Serial No. 319,755. Renewed Oct. 4, 1920. Serial No. 414,617. 5 Claims. (Cl. 75—1.)

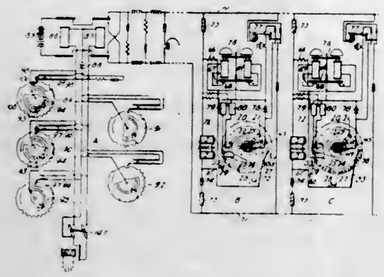
1. Apparatus for high temperature uses made from an alloy comprising a large preponderance of iron together with about 10% to 20% of chromium and about 2% to 6% of silicon, combined with smaller amounts of carbon and manganese.

1,378,942. HORSESHOE. MICHAEL L. FARAY, Boston, Mass. Filed May 22, 1920. Serial No. 383,347. 5 Claims. (Cl. 168—31.)



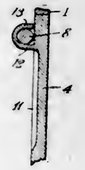
1. A horseshoe having removable calks, locking members adapted to fit the side of the shoe, and means for locking the calks to the locking members.

1,378,943. SELECTIVE SIGNALING SYSTEM. JOSEPH C. FIELD, Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed May 18, 1916. Serial No. 98,384. Divided and this application filed Apr. 24, 1917. Serial No. 164,247. 10 Claims. (Cl. 177—343.)



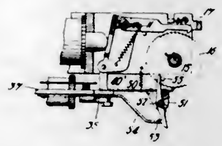
1. In a selective signaling system, line wires joining a sending and a plurality of way stations, a plurality of sets of signaling devices, the signaling devices of each set being at different way stations, a selector at each way station controlling in different signaling positions the signaling devices thereat, a polarized electromagnet for each selector connected in bridge of the line wires and responsive to constant sized groups of current impulses of opposite polarity, to advance the selectors into the different signaling positions, a source of current, and means at the sending station for transmitting over the line wires each of the several constant sized groups of current impulses of opposite polarity in subgroups of predetermined size for selectively operating the signaling devices.

1,378,944. HINGE FOR DOOR-PLATES AND OTHER STRUCTURES. ARTHUR C. GAYNOR, Stratford, Conn. Filed Feb. 9, 1920. Serial No. 357,474. 12 Claims. (Cl. 16—106.)



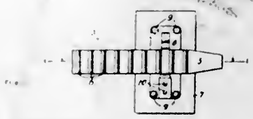
7. As an article of manufacture, a piece of metal having a shaving curved to form a loop or eye, one end of said shaving being integral with said piece of metal, the other end free and lying substantially in the plane of the surface of the said piece of metal.

1,378,945. STEP-BY-STEP CIRCUIT-CLOSING DEVICE. ALBERT F. F. GILSON, Closter, N. J., and OSCAR A. SHANN, Brooklyn, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 12, 1917. Serial No. 180,161. 7 Claims. (Cl. 200—105.)



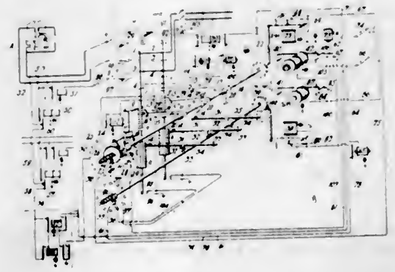
3. In a step-by-step circuit controlling device, a step-by-step element, a stepping magnet for controlling the advancement of said step-by-step element, a holding pawl for maintaining said step-by-step element in advanced position, a releasing magnet, means operable upon one change in magnetism of said releasing magnet to put said holding pawl into operable relation with said releasing magnet, and operable upon a second change in magnetization, to withdraw said pawl from engagement with said step-by-step element.

1,378,946. FASTENING DEVICE. ALBERT F. F. GILSON, Closter, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1918. Serial No. 265,246. 4 Claims. (Cl. 24—206.)



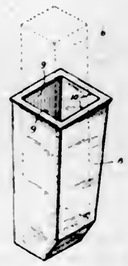
1. A fastener comprising a strap member having a plurality of resilient corrugations thereon, and a spring member adapted to coöperate therewith, said spring member having a tongue portion perpendicular to the strap member and fitting between adjacent corrugations to hold said members in locked engagement.

1,378,947. MACHINE-SWITCHING TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1917. Serial No. 180,647. 16 Claims. (Cl. 174—27.5.)



4. In a telephone system, the combination of a plurality of contact banks, a movable shaft for each bank, a driving mechanism common to said shafts, means for operating said mechanism step-by-step to drive said shafts in one direction, means for operating said mechanism step-by-step to drive said shafts in a second direction, and brushes carried by said shafts arranged to coöperate with the contact banks.

1,378,948. REMOVABLE FENCEPOST. ROBERT R. HAGE, Minneapolis, Minn. Filed Oct. 30, 1919. Serial No. 334,605. 1 Claim. (Cl. 189—28.)



A post socket member having contibuous flat plumb walls and an oblique flat wall opposite each plumb wall, the angles of the lower end portions of the oblique walls being materially increased to afford post-engaging surfaces to force a post against the plumb walls, and wedges coöperating with said oblique walls for holding the post against the plumb walls.

1,378,949. DEEP-WELL PUMP. JOHN HAHN, Los Angeles, Calif. Filed Apr. 1, 1919. Serial No. 286,681. 53 Claims. (Cl. 103—80.)

1. In a pump, the combination of pump tubing, a tubular seat member at the lower end of the pump tubing, a liquid-tight sealing barrel inserted in the seat member, a plunger slidably fitting in the sealing barrel, said plunger being provided intermediate its ends with a cylindrical valve cage having a valve, a discharge valve cage secured to the upper end of the plunger and provided with a valve, a tubular member connected at its upper end to the seat member and provided adjacent its lower end with a second member, a third seat member fitting in the second seat member, a working barrel connected at its lower end to the first tubular member, a standing valve cage mounted in the working barrel above the third seat member and connected thereto and provided with a valve, and a conduit connected with the standing valve cage, the plunger being provided adjacent its lower end with a tubular member of less internal diameter than the plunger and fitting the conduit.

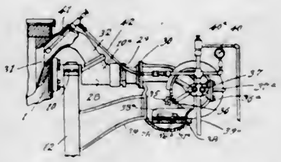


1,378,950. RECORDING-KEY. AUGUSTUS D. HARGAN, Bayonne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1918. Serial No. 265,227. 2 Claims. (Cl. 179—177.)



1. A key set comprising a frame, a plurality of depressible keys mounted thereon, contact springs for each of said keys, a stem for each of said keys, a pivoted latch plate having apertures therein, means carried by each of said keys and engaged by said latch plate upon depression of its respective key to lock such key in depressed position, and a lug mounted on each of said keys permanently positioned within one of said apertures serving to limit the downward and upward movement of its respective key.

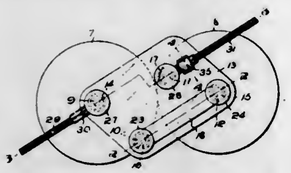
1,378,951. BURNER FOR FURNACES. JOSEPH E. HAUSFELD, Cincinnati, Ohio. Original application filed Dec. 26, 1917, Serial No. 208,776. Divided and this application filed Apr. 3, 1920. Serial No. 371,092. 3 Claims. (Cl. 158—36.)



1. The combination with a furnace having a fuel inlet, of a blower, and means for operating same to furnish a

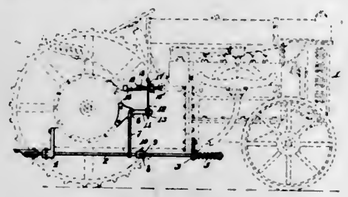
forced draft through said inlet, an oil pump operatively connected to said blower, and separate gas and oil conduits to said fuel inlet whereby either gaseous or liquid fuel may be utilized.

1,378,952. ELECTRICAL CONNECTION. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Apr. 4, 1918. Serial No. 226,579. 11 Claims. (Cl. 204—29.)



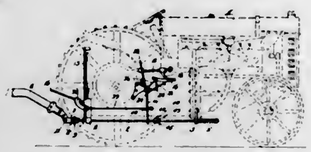
1. The combination of two batteries, each provided with a pair of terminals, and a battery-connecting insulating plate having four sides and four corners and provided with four terminal-receiving perforations one adjacent each of said corners.

1,378,953. MOTOR-CLUTCH THROW-OUT. EDWARD M. HEYLMAN, South Bend, Ind.; Citizen's Trust & Savings Bank, South Bend, Ind., administrator of said Edward M. Heylman, deceased. Filed Jan. 4, 1919. Serial No. 269,667. 10 Claims. (Cl. 180—14.)



1. An overload throw-out for clutches, comprising a member movable under the overload, and a clutch operating element actuated by said member to release the clutch, such clutch being freed from the influence of such element through further movement of the clutch operating element in the release direction.

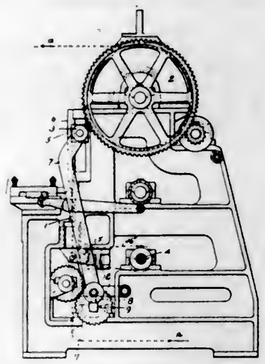
1,378,954. AUTOMATIC CLUTCH THROW-OUT FOR TRACTORS. EDWARD M. HEYLMAN, South Bend, Ind.; Citizen's Trust & Savings Bank, South Bend, Ind., administrator of said Edward M. Heylman, deceased. Filed Jan. 29, 1919. Serial No. 273,818. 12 Claims. (Cl. 180—82.)



3. The combination with a tractor having clutch operating mechanism, of means movable by a backward tilting movement of the tractor operating to actuate said mechanism to release the clutch.

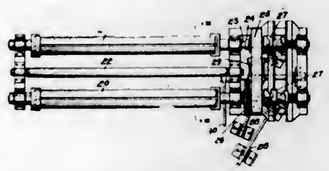
1,378,955. WIRE-FENCE MACHINE. JOHN A. HOLMQUIST, Woodlawn, Pa. Filed Mar. 22, 1920. Serial No. 367,704. 7 Claims. (Cl. 140—13.)

1. In a wire-fence machine, the combination of a plurality of parallel coilers, a take-up roller arranged transversely of said coilers and beyond the delivery ends thereof, and reciprocable in the direction of the longitudinal



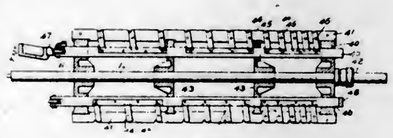
extent of said coilers, and means for drawing strand wires through said coilers and over said roller, substantially as described.

1,378,956. TAKE-UP REEL FOR WIRE-FENCE MACHINES. JOHN A. HOLMQUIST, Woodlawn, Pa. Filed Mar. 22, 1920. Serial No. 367,705. 3 Claims. (Cl. 140—13.)



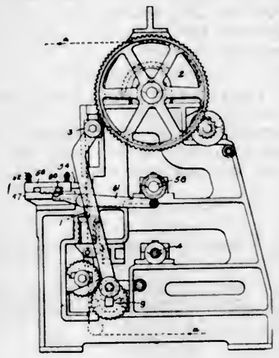
1. In a wire-fence machine, in combination with machine parts delivering a web of completed fence in continuous length, a reel including a plurality of rotatable cores, removable each from the reel, a source of power, rotation-imparting connection from said source of power to each of said cores, and means for interrupting and making continuous again at will the connection to either of the said cores, substantially as described.

1,378,957. CRIMPING-DRUM FOR WIRE-FENCE MACHINES. JOHN A. HOLMQUIST, Woodlawn, Pa. Filed Mar. 22, 1920. Serial No. 367,706. 2 Claims. (Cl. 140—13.)



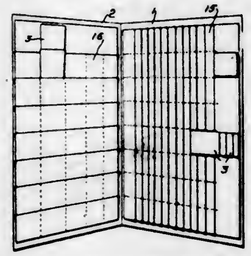
1. In a wire-fence machine, a rotary crimping drum including a pair of beams extending longitudinally of the drum and arranged in parallelism, and provided with a succession of alined notches, and a corresponding succession of doubly bifurcated crimping members pivoted to said beams adjacent said notches with fingers overlying each of said beams on either side, and means for swinging said crimping members in predetermined synchronism with the rotation of said drum, substantially as described.

1,378,958. WIRE-FENCE MACHINE. JOHN A. HOLMQUIST, Woodlawn, Pa. Filed Mar. 22, 1920. Serial No. 367,707. 12 Claims. (Cl. 140—13.)



2. In a wire-fence machine, in combination with staywire feeding mechanism, a tipping slide, a knife borne by said slide, means for reciprocating said slide, and means coördinated with said reciprocating means for tipping said slide, substantially as described.

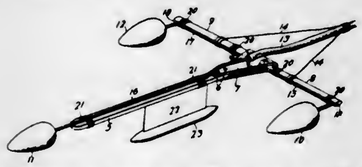
1,378,959. TABULAR SUBFILING FOLDER. MARX HOLT, Chicago, Ill. Filed May 9, 1919. Serial No. 296,033. 3 Claims. (Cl. 129—16.7.)



1. A device of the character described comprising a paper filing folder for vertical filing, and plats of pockets secured to the inner faces of both of the leaves of the folder, said plats being formed of thin tough paper plaited and stitched transversely to the plaits.

3. A plat of pockets made out of a single sheet of flexible material folded into plaits and having oppositely projecting tabs at intervals folded around the edges of the plaited sheet and having their free ends secured by pasting, whereby there is formed a series of pockets closed at the ends by said tabs.

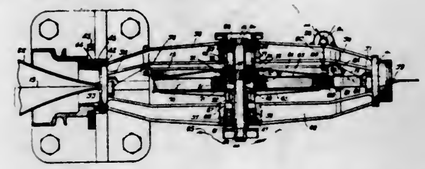
1,378,960. METHOD OF AND APPARATUS FOR DETECTING UNDER-WATER VIBRATIONS. JOSEPH WARREN HORTON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,491. 10 Claims. (Cl. 181—0.5.)



1. A method of determining the location of a source of under-water vibrations which consists in towing a plurality of vibration-detecting devices through the water, maintaining such devices in fixed space-relation on intersecting base line and obtaining a binaural balance between the response of said devices whereby the location of said source may be determined.

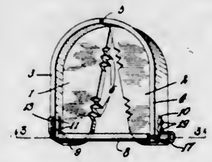
3. In apparatus for determining the location of a source of under-water vibrations, the combination with a plurality of detecting devices, of means for flexibly supporting said devices in fixed space-relation on intersecting base lines and means for towing said devices through the water.

1,378,961. APPARATUS FOR COVERING CORES. JOHN JANICKI, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1917. Serial No. 208,837. 4 Claims. (Cl. 28—6.)



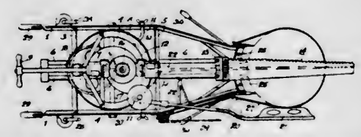
1. In a mechanism for covering wire with tape, a tape roll, a rotatable flier in which said tape roll is rotatably mounted, a wire to be served with tape from said roll, a pressure controlled brake for said tape roll, a centrally pivoted arm operatively connected with said brake, and pulleys upon the ends of said centrally pivoted arm over which said tape passes in opposite directions to control the application and release of the brake pressure upon said tape roll in accordance with the tension upon said tape.

1,378,962. ANTISLIPPING DEVICE. GEORGE KABACIJ and ANDREW BARTUS, Wyatt, W. Va. Filed Aug. 24, 1920. Serial No. 405,612. 5 Claims. (Cl. 36—64.)



1. An anti-slipping device comprising a pair of plate sections hinged together at one end and provided with spikes, means on said plate sections adapted to grip the sides of a heel, a bar hinged at one end to the free end of one section, a member on the other end of the bar adapted to engage the other section to cause the device to grip a heel, and a spring pressing said member against the said other section.

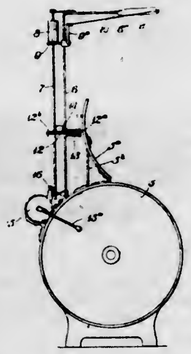
1,378,963. PORTABLE MOTOR-SAW FOR FELLING TREES, CUTTING LOGS, AND SAWING WOOD. KNUT ROBERT JOHAN LAGUS, Åbo, Finland. Filed Sept. 28, 1917. Serial No. 193,629. 3 Claims. (Cl. 143—68.)



1. In a motor saw, the combination of a portable frame, a horizontal ring, disk or the like, mounted in said frame for rotary and horizontally tilting movements, a motor

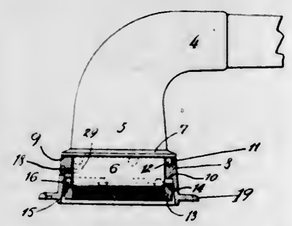
carried by said ring, a rod slidingly mounted on said ring, means for fixing a saw-blade to said rod in either a vertical or horizontal position, arms fixed to said frame, and rollers journaled on said arms for supporting said ring during the tree felling operation, said arms being movable to clear the ring and permit the vertical tilting of said ring.

1,378,964. MEANS FOR EXTINGUISHING FIRES IN VESSELS. FREDERICK H. LANG, Columbus, Ohio. Filed July 6, 1920. Serial No. 394,111. 5 Claims. (Cl. 220—89.)



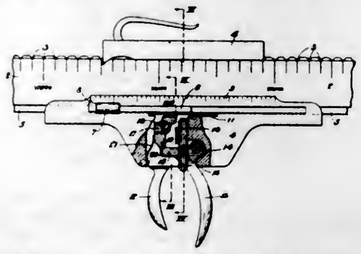
1. Means for closing the cover of a chamber such as described comprising, in combination, a weight, thermally controlled means for supporting the weight, a spring actuated pusher to act on the cover if in opened position, and a latch to hold said pusher under tension in operative position, said latch located to be released by the weight when the latter falls.

1,378,965. TONE-ARM BEARING FOR TALKING-MACHINES. HENRY LUBÉ, College Point, N. Y. Filed Jan. 3, 1920. Serial No. 349,190. 1 Claim. (Cl. 64—49.)



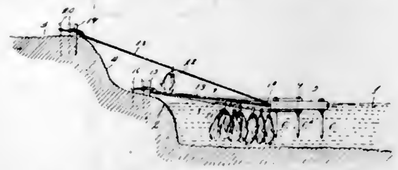
The combination of an outer relatively fixed tubular member and an inner relatively movable tubular member adapted to fit and rotate within said outer member, which latter is provided with an upper flat surface and an upper interior straight wall adjacent the said flat surface, a plurality of sockets formed in said outer tubular member, antifriction balls in said sockets arranged to project from the latter upwardly above the said flat surface and inwardly beyond the said straight wall, a lateral shoulder formed in said inner tubular member and adapted to rest upon the said balls, said inner tubular member being further provided with a vertical portion adapted to contact with the said antifriction balls on the sides thereof, an annular flat shoulder formed on said outer tubular member below the said interior straight wall, said outer tubular member being further formed with a tapering inside wall below the said annular flat shoulder, a threaded portion at the lower end of said inner tubular member, a ring screwed thereon, a plurality of sockets formed in the said ring, antifriction balls in said sockets in the said ring, the last mentioned antifriction balls being arranged to contact with the said annular flat surface and the said tapering inside wall to form a lower ball bearing between the said two members.

1,378,966. SAFETY-LATCH FOR RECORDING SCALE-BEAMS. EDWARD MCGARVEY, Beaver Falls, Pa., assignor to Standard Scale & Supply Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Jan. 26, 1920. Serial No. 354,018. 6 Claims. (Cl. 265—6.)



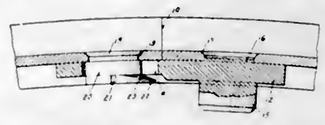
1. In a recording scale beam having a printing platen and a card receiving cavity; means for actuating the platen and a device mounted in operative relation to such cavity for locking and unlocking the platen actuating means.

1,378,967. STREAM-DEFLECTOR. JAMES M. MAHER, Fremont, Nebr. Filed Sept. 18, 1920. Serial No. 411,093. 3 Claims. (Cl. 61—3.)



1. A stream deflector comprising a float having downwardly projecting piling, metallic bars having their inner ends anchored at spaced points to the stream bank and their outer ends pivoted centrally of the float, cables extending from the float to the stream bank, said cables and metallic bars forming means for guiding bunches of brush to a point adjacent the float for causing said float to sink and for causing the bank to build up incident to the shifting of sand and sediment.

1,378,968. DEMOUNTABLE RIM. FRANK K. MALLISON, Akron, Ohio, assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 9, 1915. Serial No. 65,871. 2 Claims. (Cl. 301—30.)

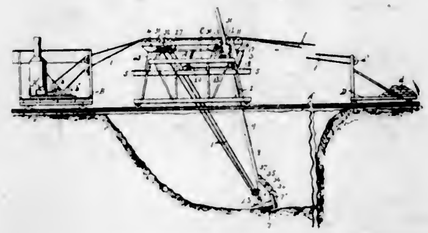


1. In a demountable split rim, a fastening device comprising a plate secured to one end of the rim and overlapping the split and provided with a slot, a turn button having an overhanging portion relatively mounted on the other end of said rim adapted to pass through the slot in one position and to lock the rim in another position, and a wedge surface on the under side of said overhanging portion.

1,378,969. METHOD OF MANUFACTURING INDUCTANCE-COILS. IVAN L. MILTON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1920. Serial No. 367,896. 3 Claims. (Cl. 178—46.)

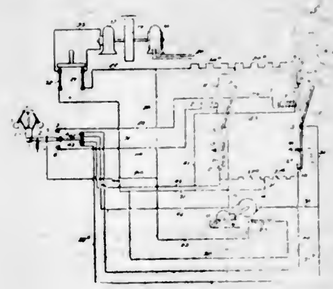
1. The process of manufacturing a magnet core which comprises baking said core, demagnetizing said core and subsequently subjecting said core to a second baking.

1,378,970. TRENCHING APPARATUS. THOMAS F. MOORE, Dover, N. J. Filed Feb. 18, 1919. Serial No. 277,797. 11 Claims. (Cl. 214—131.)



1. Trenching apparatus comprising in combination with a track along the trench line, a power device and an anchorage both stationed some distance apart, said anchorage having a sheave thereon, a car movable along the track between said power device and anchorage, a cable-supporting sheave on the front end of the car, a dipper having a supporting beam movable about an axis near the rear end of the car and having an independent endwise movement, a fall block attached to said dipper, and a cable passing around the sheaves and fall-block and attached to the power device.

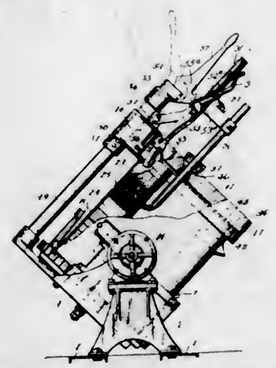
1,378,971. ELECTRIC REGULATOR. WILLIAM E. MOORE, Pittsburgh, Pa. Filed Nov. 16, 1918. Serial No. 262,805. 22 Claims. (Cl. 171—312.)



1. A regulator, comprising a governor having a movable element, a source of current, a motor, means controlled by the governor for connecting the motor with the source of current, and electro-magnetic means comprising two independent oppositely acting portions connected with said motor for exerting a reactive force on said governor element.

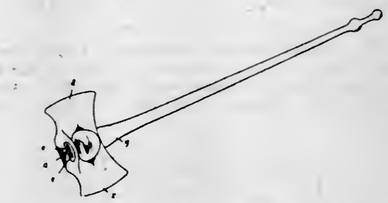
1,378,972. ELECTRIC FURNACE. WILLIAM E. MOORE, Milwaukee, Wis. Filed July 18, 1919. Serial No. 311,802. 34 Claims. (Cl. 204—64.)

14. In an electric furnace, having a crucible of cylindrical shape or circular section, provided with conductive walls, the combination with a roof, and electrodes entering through the roof, of means for varying the inclination of said electrodes to the plane of the roof, so that the arc may be struck between the electrodes themselves or between one or more of the electrodes and the conductive



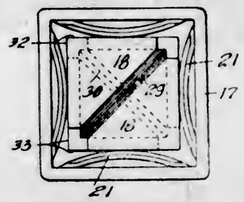
wall of the furnace, means for rotating said cylindrical crucible about its axis, and means for varying the inclination of such axis.

1,378,973. AX. WILLIAM R. MUNZER, Emetta, Minn. Filed Dec. 20, 1920. Serial No. 431,971. 3 Claims. (Cl. 145—2.)



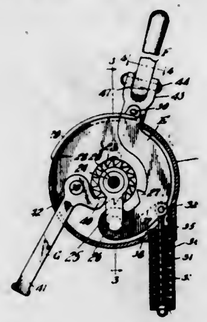
2. The combination with a double bitted ax of the character described having the usual handle socket therein, of a third scoop-like bit extending forwardly of the front edge of the ax and formed integral therewith, said third bit socket, having a straight flat under bearing surface disposed at an angle to the axial line of the handle, and a shoulder longitudinally of said third bit terminating the lower portion of the handle socket, substantially as described.

1,378,974. SHOCK-ABSORBER. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 6, 1919. Serial No. 302,250. 9 Claims. (Cl. 267—9.)



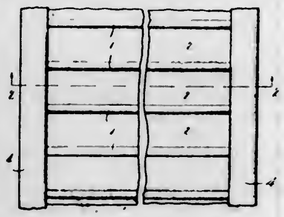
1. In a shock absorbing mechanism for vehicles having a body element, the combination with an axle, of a semi-elliptic main spring, and an auxiliary friction shock absorbing mechanism interposed between said main spring and the axle at the center of the spring, the spring being directly supported on one part of the mechanism and another part of the mechanism being directly supported on the axle.

1,378,975. HAND-BRAKE FOR RAILWAY BOX-CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 4, 1920. Serial No. 356,346. 4 Claims. (Cl. 74—114.)



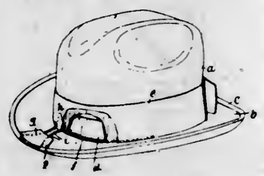
1. In a hand brake mechanism adapted for use at the top of box cars, the combination with a housing, of a member rotatably mounted therein having a ratchet wheel rigid therewith, a locking dog coöperable with said ratchet wheel, a pawl-operating lever extending through the housing upwardly, spring means normally holding said pawl-operating lever in inoperative retracted position, and a handle pivotally attached to the outer end of said lever, said lever oscillating in a plane parallel to the end wall of the car and the handle being pivotally movable on the lever in planes perpendicular to the end wall of the car.

1,378,976. SHEET-METAL CURTAIN. ENOCH OHNSTRAND, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed June 27, 1919. Serial No. 307,169. 7 Claims. (Cl. 189—56.)



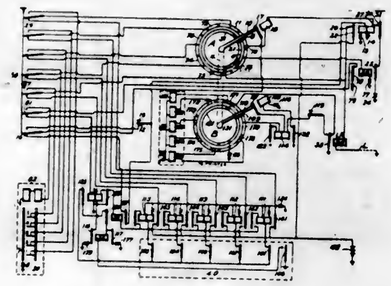
1. A flexible metal curtain comprising an integral sheet of metal bent to form a plurality of parallel, transversely extending, spaced ribs, with substantially flat panel sections between the ribs.

1,378,977. HAT-BRIM STIFFENER. JOHN PARMLEY, Paterson, N. J. Filed Oct. 12, 1920. Serial No. 416,418. 4 Claims. (Cl. 2—108.



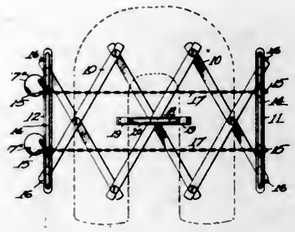
1. A hat-brim stiffening device including a body part adapted to be secured to and having a piercing portion adapted to penetrate the crown portion of a hat and a brim-stiffening part proper rigidly projecting from the body part.

1,378,978. TELEGRAPH SYSTEM. PAUL M. RAINEY, Glen Ridge, and ANDREW D. DOWD, Hoboken, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 22, 1917. Serial No. 176,390. 16 Claims. (Cl. 178—33.)



16. In a printing telegraph system, a line circuit, a source of current normally included therein, a distributer mechanism comprising conducting segments, a plurality of local circuits connected to said segments, circuit-closing mechanism for selectively connecting current to said local circuits, and means controlled by said circuit-closing mechanism for initially opening the line circuit and for initiating the operation of said distributer mechanism.

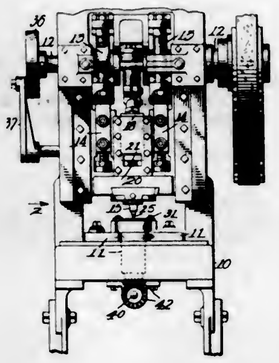
1,378,979. ARTICLE-HOLDER. HARRY E. ROBINSON and DANA L. ORDWAY, Marlboro, Mass. Filed July 21, 1919. Serial No. 312,211. 2 Claims. (Cl. 220—6.)



1. An article holding device comprising two opposed rigid raised sides, a plurality of bottom members forming an expansible connection between said opposed sides, the other two sides of the device being open and unobstructed, flexible binding means secured at one end to one of said rigid sides, clamping means on the opposite side for detachably securing said binding means to said opposite side at any point in its length, and spring take-up and storage devices for said binding means.

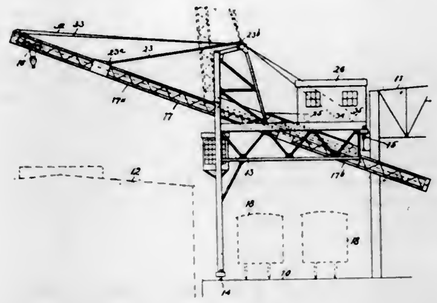
1,378,980. APPARATUS FOR MAKING NUTS. GEORGE I. ROCKWOOD and HJALMAR G. CARLSON, Worcester, Mass.; said Carlson assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1917. Serial No. 145,124. 9 Claims. (Cl. 101—76.)

1. In a machine for making nuts, the combination of a plunger having non-cutting screw threads thereon, a single female drawing die coöperating therewith and located in position for the plunger to force the blank into it, said female die having die surfaces for forcing the metal of the blank into the screw thread on the plunger



to produce a nut, and means for unscrewing the nut while the plunger is completing its stroke, coming to rest, and starting back.

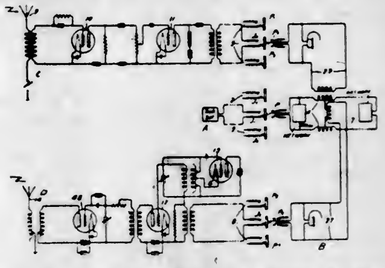
1,378,981. DOCK-CRANE. FORD L. SABIN, Cleveland Heights, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 24, 1919. Serial No. 332,967. 7 Claims. (Cl. 212—15.)



1. A dock crane comprising a crane structure having a boom for a trolley, the boom being composed of relatively movable sections along both of which the trolley is adapted to travel, one section mounted for end wise movement in the crane structure.

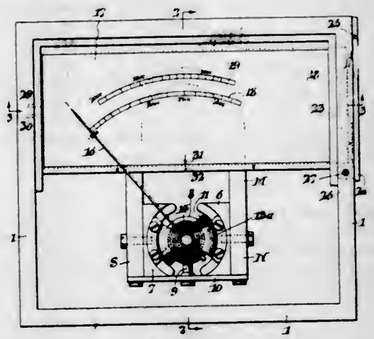
1,378,982. SIGNALING SYSTEM. HERBERT E. SHREEVE, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1918. Serial No. 254,480. 22 Claims. (Cl. 250—6.)

1. In combination, means for receiving radio signal waves and for detecting said waves, a central station, an asymmetric receiving channel connected to said detecting means and terminating at said central station, independent means for transmitting radio signal waves modified in accordance with signals, an asymmetric transmitting channel connected to said independent means and terminating at said central station, a two-way signal line ter-



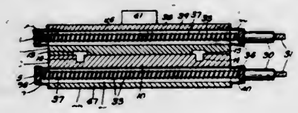
minating at said central station and means at said central station for connecting said signal line to said transmitting channel and said receiving channel at will.

1,378,983. ELECTRICAL MEASURING APPARATUS. IRVING B. SMITH, Ambler, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 25, 1918. Serial No. 230,617. 7 Claims. (Cl. 88—14.)



1. Measuring apparatus comprising a galvanometer having a deflecting pointer carried by its movable member and a scale holder over which said pointer deflects, means having a characteristic variable in accord with the unknown quantity to be measured, variation of said characteristic being accompanied by deflection of said pointer to correspond with said unknown quantity, said unknown quantity being other than electrical in nature, a scale for said galvanometer adapted to be held by said scale holder and reading directly in units of said quantity to be measured, the markings of said scale being dependent upon the characteristics of said galvanometer and the particular said means, and means for relating said scale to said holder in such position that a deflection of said pointer indicates a scale reading of said unknown quantity.

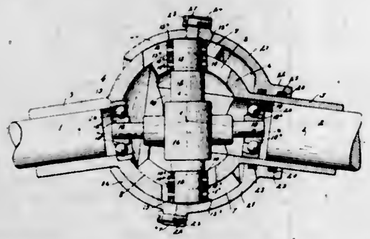
1,378,984. METHOD OF AND APPARATUS FOR MAKING DIE-CASTINGS. JOSEPH SOSS, New York, N. Y. Filed Jan. 21, 1920. Serial No. 353,038. 12 Claims. (Cl. 22—74.)



1. The herein described method of making die-castings which consists in providing a suitable die and heating said

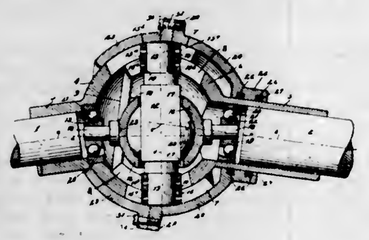
die by an electrical heating element which is independent and movable toward and from said die and adapted to operate in connection therewith, passing the molten metal through said element to said die and cooling that portion of the heating element through which the molten metal passes.

1,378,985. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 1, 1920. Serial No. 385,486. 6 Claims. (Cl. 64—91.)



1. The combination, with a driving shaft and a driven shaft arranged angularly with respect thereto, of coupling members carried by the proximate ends of said shafts, respectively, a driver, a rocking connection between each end of said driver and said members, pins projecting in opposite directions from said driver and movably mounted thereon, and means carried by the driving shaft and the driven shaft and coöperating with said pins thereby to force the driver to follow a predetermined path during the rotation of said shafts.

1,378,986. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 1, 1920. Serial No. 385,487. 5 Claims. (Cl. 64—91.)



1. The combination, with a drive shaft and a driven shaft arranged angularly with respect thereto, of coupling members carried by the proximate ends of said shafts, respectively, a driver, a rocking connection between each end of said driver and said members, a hub mounted on said driver and movable with respect thereto in the direction of rotation of said driver, and means coöperating with said hub and adapted to engage opposite sides of said driver thereby to compel the latter to follow a predetermined path during its rotation.

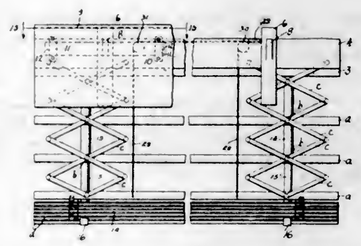
1,378,987. DEVICE FOR CLEANING BUTTONS OR THE LIKE. EDWARD WESSELY, New York, N. Y. Filed Nov. 19, 1920. Serial No. 425,093. 2 Claims. (Cl. 51—171.)

1. A device of the character described, consisting of a box having a central longitudinal slot in its bottom and a cross-slot in one of its side walls, a lid hinged to the opposite side wall of said box and having flanges on three sides, of which two embrace the corresponding walls of the box, and of which the front flange is extended, and



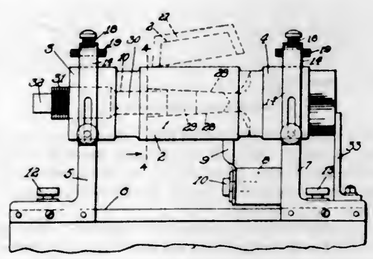
adapted to bear on the bottom of said box when the lid is closed and to engage said cross slot, a spindle rotatively borne in said lid, and a polishing disk having means for its engagement with said spindle.

1,378,988. SAFETY-GUARD FOR AUTOMOBILES. JOHN WILHELM, St. Louis, Mo. Filed Mar. 7, 1921. Serial No. 450,339. 7 Claims. (Cl. 293—34.)



1. In combination with an automobile frame, a safety guard supported on the front of said frame, said guard comprising a supporting plate, an extensible apron consisting of a vertical and horizontal section, said vertical section being suspended from the plate and the horizontal section being hinged to the vertical section, the vertical section being composed of a series of bars pivotally connected to lazy-tongs devices, and the horizontal section being composed of a series of grid units hinged together, and means for supporting the apron sections in their extended positions.

1,378,989. SUPPORT FOR EXPANDING REAMERS. GEORGE L. WOOD, Worcester, Mass. Filed Aug. 17, 1920. Serial No. 404,218. 3 Claims. (Cl. 51—225.)



1. A support for a reamer of the class described, during the operation of grinding, comprising a pair of V-shaped

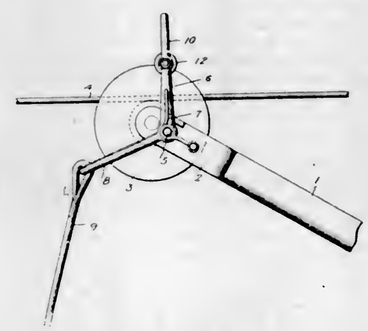
supports spaced apart and adjustably supported in alinement with each other, a slotted clamping bar attached to each of said V-shaped supports and vertically adjustable, and a screw threaded forked clamp held in said slotted bar, carrying a check nut to prevent its upward movement.

1,378,990. SIGNALING DEVICE. JAMES A. WOTTON, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 13, 1918. Serial No. 239,762. 3 Claims. (Cl. 177—329.)



1. In a visual signal device, a face member provided with a circular aperture, a conoidal target member normally adapted to partially protrude through the aperture of said face member, and electromagnetic means to withdraw said target member from said aperture.

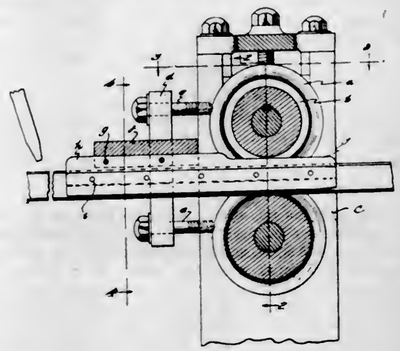
1,378,991. TROLLEY-POLE HEAD. GEORGE TRAFFORD BELL, Boston, Mass., assignor, by mesne assignments, to J. F. C. McCarthy, Boston, Mass. Filed Aug. 9, 1919. Serial No. 316,377. Renewed Mar. 30, 1921. Serial No. 457,027. 2 Claims. (Cl. 191—78.)



1. The combination with a trolley pole of a contact wheel carried thereby, guard arms fixed against lateral movement at opposite sides of said wheel, resilient means maintaining said arms in upstanding position, said arms having fixed inwardly-extending upper end portions disposed above said wheel, said end portions being normally out of contact with the trolley wire and separated by a gap sufficiently wide to permit said wire to pass therethrough, and inwardly-extending lateral portions arranged in close proximity to said wheel at the periphery thereof, means for pivotally connecting said arms at their lower ends to opposite sides of the trolley pole and a member joining said arms together, said member being arranged for the connection of a manipulating cable.

1,378,992. GUIDE FOR TUBE-MAKING MACHINES. RICHARD O. BERG, Detroit, Mich., assignor to Michigan Steel Tube Products Company, Detroit, Mich., a Corporation of Michigan. Filed June 3, 1920. Serial No. 386,403. 8 Claims. (Cl. 153—32.)

1. A guiding device for a tube making machine, having in combination, a pair of feed rolls, a guiding fin, and a mandrel supported adjacent the feed rolls with both the



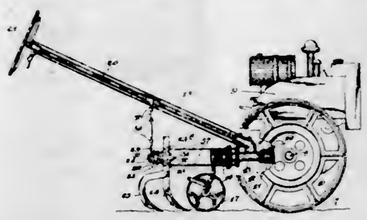
guiding fin and the mandrel running between the feed rolls.

1,378,993. SLIDE-RULE. ERICH BÖHNKE, Brooklyn, N. Y. Filed Mar. 19, 1919. Serial No. 283,523. 2 Claims. (Cl. 235—70.)



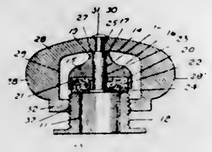
1. An apparatus for calculating the working time of an employee consisting of a "clock" scale divided into units of equal length representing the hours of the day, a "regular time" scale divided into units representing hours and equal to the units of said clock scale, and an "overtime" scale divided into equal units representing hours, the ratio between the length of the units of said overtime scale and said clock scale being dependent on the amount of time per hour with which the employee is credited for hours or fractions thereof worked after the close of the working day and the units of said regular time scale and said overtime being adapted to register with the units of said clock scale.

1,378,994. CULTIVATOR ATTACHMENT FOR TRACTORS. ORAN K. BROWN, Evanston, Ill. Filed May 23, 1919. Serial No. 299,363. 3 Claims. (Cl. 97—42.)



1. In combination with a wheeled frame a single rearwardly projecting handle bar support, rigidly connected to the frame so that the same will be steered by lateral movements thereof, of a single handle bar mounted in said support for oscillatory movements therein, but movable laterally therewith to steer the frame, a single tool-equipped tool-supporting bar, approximately parallel links supporting said bar for movement transversely of said frame, and a connection between said handle bar and said tool-supporting bar for moving the same transversely of the frame.

1,378,995. STOPPER FOR CONTAINERS. CHARLES A. BUNKER, Kansas City, Mo. Filed Mar. 18, 1920. Serial No. 366,799. 2 Claims. (Cl. 215—43.)

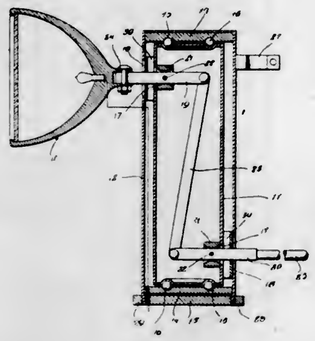


1. The combination with a container having an externally screw-threaded neck and an internally screw-threaded collar on said neck, and a thumbpiece having downward extensions connected with the collar, of a hollow cap adapted to receive the neck of the bottle, said cap having a central or axial opening and a pin in said opening pivotally connected with said thumb piece at its upper end and a disk on its lower end, adapted to nearly close the entrance to the neck of the bottle in a downward movement of the cap, and a packing in said hollow cap adapted to be compressed upon the upper edge of the neck of the bottle within the hollow cap in a sealing movement of the bottle within the packing.

1,378,996. ALLOY. FREDERIC E. CARTER, Newark, N. J., assignor to Baker & Company, Inc., a Corporation of New Jersey. Filed July 17, 1920. Serial No. 396,930. 1 Claim. (Cl. 75—1.)

An alloy containing substantially ½%–5% palladium, 5%–15% gold and the rest platinum.

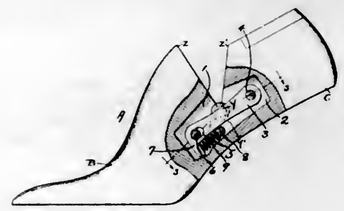
1,378,997. SPOTLIGHT. OHIO COLUMBUS BARBER CLARK, Akron, Ohio. Filed Mar. 20, 1920. Serial No. 367,361. 4 Claims. (Cl. 240—7.)



1. A device of the class described comprising a support, a casing rotatably mounted thereon, parallel arms pivoted within the casing and projecting therefrom at opposite sides, a link connecting the corresponding extremities of said arms, a lamp carried by one arm, and a handle carried by the other arm controlling the pivotal movement of the lamp for vertical adjustment, and the partial rotation of the casing for the purpose specified.

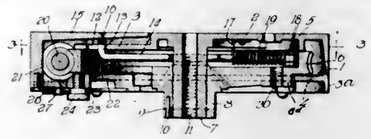
1,378,998. LAST. GEORGE CLAUSING, Portsmouth, Ohio, assignor to The Vulcan Last Company, Portsmouth, Ohio, a Corporation of Ohio. Filed Aug. 16, 1919. Serial No. 317,911. 6 Claims. (Cl. 12—136.)

1. A last having a toe part and a heel part provided with a transverse bearing member frictionally held in place therein, a link connecting said toe and heel parts and means coöperating with said link and mounted in one



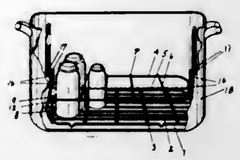
of said parts for maintaining the same in extended position and in broken position and for preventing accidental dislodgment of the transverse bearing.

1,378,999. TURNTABLE-SUPPORT FOR CAMERAS. ERNEST W. DAVIS, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 24, 1919. Serial No. 299,529. 4 Claims. (Cl. 248—45.)



1. In a rotatable tripod head, a casing having a central stem, a worm-wheel housed therein having flexible spokes, an internal surface on the casing adapted to bear on the rim of the worm-wheel, and an adjustable element on said stem carrying said worm-wheel and adapted to force the same against the said surface of the casing against the spring of said spokes.

1,379,000. CANNING-RACK. BROCKWAY DICKIE, Albion, Mich., assignor to The Union Steel Products Company, Ltd., Albion, Mich., a Corporation of Michigan. Filed May 8, 1920. Serial No. 379,928. 2 Claims. (Cl. 53—1.)



1. In a canning rack, the combination of a base, a retaining frame comprising a border member and cross rods, bail-like supporting links for said retaining frame having eyes at the ends of their arms engaging said base, their bight ends being looped over said retaining frame border member with their cross portions within the ends of said base, locking members pivoted on said cross portions of said supporting links, one of said locking members being provided with a loop engaging one end of the base and the other with a hook detachably engageable with the other end whereby said retaining frame is held in its erected position when said hook is engaged.

1,379,001. DOOR AND WINDOW SCREEN. VERNON L. DIVEN, Ogden, Utah. Filed Mar. 2, 1920. Serial No. 362,840. 7 Claims. (Cl. 156—14.)

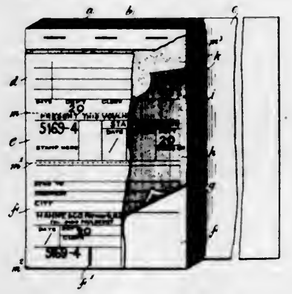
7. The combination with a frame, and a screen fabric therefor; of upper and lower metal plates surrounding

the opening in the frame and whereof each has an arched body portion and a flat flange projecting from the inner edge of said portion, the flanges being provided with registering holes, the lower flange with openings at intervals, and the upper flange with spurs adapted to be passed



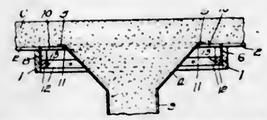
through the fabric and openings and upset, the outer edge of the body of the upper plate having an inturned lip forming with said body a channel in which the outer edge of the body of the lower plate is hingedly mounted, and fastening devices passing through the registering holes and the interposed fabric and into the frame.

1,379,002. STORE-SERVICE CHECK. HARRY A. DORR, Newark, N. J., assignor to Hahne & Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 26, 1920. Serial No. 376,518. 2 Claims. (Cl. 282—9.)



1. A store service check comprising in separable portions appropriately designated and each identified by a check number and arranged in the order named, first, at the free end an item slip for the customer, with a weakened line between it and the other portions of the check to permit to to be separated therefrom at the time of sale, a stamp voucher slip normally continuous with the item slip with a weakened line between it and the item slip and between it and the other portions of the check, an address slip adapted to be attached to the package containing the goods normally continuous with the stamp voucher slip, and a carbon duplicate portion folded to underlie said item slip, stamp voucher slip and address slip and adapted to receive a duplicate of the entries thereon, the address slip and carbon duplicate portion being normally continuous to permit them to be forwarded without separation with the goods to be packed for delivery.

1,379,003. REMOVABLE FLOOR-FORM SECTION FOR USE IN CONNECTION WITH COLUMN-FORMS USED IN SLAB CONSTRUCTION. HERMAN J. EBERLE, St. Louis, Mo. Filed Aug. 4, 1919. Serial No. 315,225. 5 Claims. (Cl. 25—131.5.)



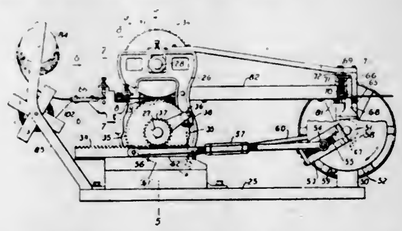
1. In combination with a floor form having an opening and the head of a column form, a removable form comprising two units positioned in the floor form opening to close the opening between the side walls of the floor form opening and the head of the column form, and means removably fixed to the floor joist for positioning the removable form section at any desired elevation within the floor form opening.

1,379,004. GREASE AND OIL GUN. ERICH EDELMANN, Chicago, Ill. Filed July 2, 1919. Serial No. 308,236. 5 Claims. (Cl. 221—79.)



1. In a device of the class described, the combination of a barrel having a longitudinal opening in the wall thereof and an outlet at one end, a plunger adapted to reciprocate in the barrel so as to force the contents through the outlet, a cap on the end of the barrel having an aperture in alinement with the longitudinal opening, a panel slidably mounted in the longitudinal opening and operable through the aperture of the cap, and means engaging the inner face of the panel at the inner side of the end cap for holding the panel in alinement with said aperture.

1,379,005. MACHINE FOR AUTOMATICALLY EDGING, PERFORATING, AND CUTTING OFF STRIPS OF METAL. CHARLES A. ELIGH, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 5, 1916. Serial No. 135,102. 5 Claims. (Cl. 113—1.)



1. A machine for punching and forming sheet metal, comprising a pair of rotary work advancing die members, one of said members being studded with punches and the other correspondingly apertured for engagement by said punches, means for intermittently driving said rotary members in accurately timed relation, a shearing blade, and means for actuating the same during the intermissions of rest of said die members.

2. A machine for forming and punching sheet metal, comprising a pair of rotary work-advancing die members, one of said members being studded with punches and the other correspondingly apertured for engagement by said punches, means for driving said rotary members in accurately timed relation, edge-forming means engageable with the work in advance of said rotary members, and means for cutting the work into predetermined lengths.

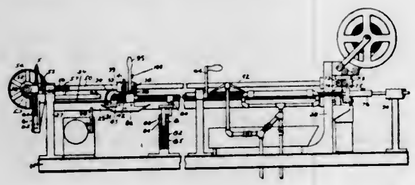
3. A machine for punching and forming sheet metal, comprising a pair of rotary work advancing die members, one of said members being studded with punches and the other correspondingly apertured for engagement by said punches, means for driving said rotary members intermittently and in accurately timed relation, and means for varying the intermittent angular advance of the rotary members.

4. A machine for punching and forming sheet metal, comprising a pair of rotary work-advancing die members, one of said members being studded with punches and the other correspondingly apertured for engagement by said

punches, a rack and pinion drive mechanism for said rotary members, means for reciprocating said rack and means for varying the stroke of the rack, pawl and ratchet means for driving the rotary members intermittently in a constant direction from said rack and pinion mechanism, and means for shearing the work during the intermissions of rest of said rotary members.

5. A machine for punching and forming sheet metal, comprising a pair of rotary work advancing die members, one of said members being studded with punches and the other correspondingly apertured for engagement by said punches, a step by step drive mechanism for intermittently rotating the work advancing members in a constant direction, means for varying the rotative feed of said members and means for shearing the work during the intermissions of rest of said members.

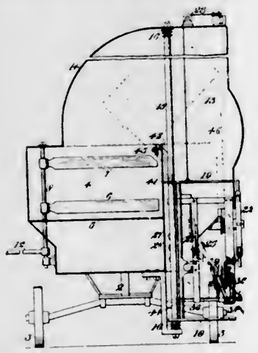
1,379,006. METHOD AND MACHINE FOR MAKING RADIATOR-TUBES. CHARLES A. ELIGH, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 28, 1915, Serial No. 36,651. Renewed Apr. 1, 1920. Serial No. 370,539. 21 Claims. (Cl. 113—33.)



1. A machine for making radiator tubes, comprising means for supporting and rotating a tube at various velocities, means for winding a fin thereon, means for applying flux and solder, a flame to heat the parts and fuse the solder, and excess solder removing means adjacent to the flame, comprising means for directing a jet of air upon the rotating tube and fin while the solder is fluid.

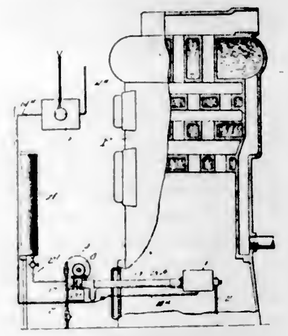
16. The method of making radiator tubes comprising the driving of a tube section to spirally wind a fin thereon, securing the fin to the tube during the winding operation, coupling another tube section to that being driven to drive the same thereby before the completion of the winding on the first section and continuing the winding across the junction of the two sections, subsequently severing the fin at the junction, removing the first section and continuing to drive the second section by the wound portion thereof.

1,379,007. REFUSE-COLLECTION VEHICLE. ATAULFO FERNÁNDEZ, San Francisco, Calif. Filed Jan. 12, 1920. Serial No. 350,817. 12 Claims. (Cl. 214—67.)



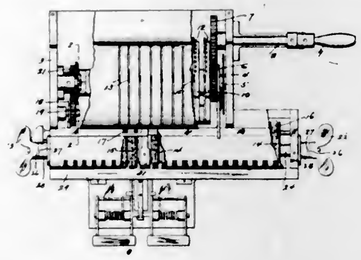
1. A refuse collection vehicle, comprising a body, an elevator associated with said body, a can carrier mounted on said elevator, and a plurality of dogs adapted to engage the upper edge of a can on the carrier, arranged on the carrier at vertically spaced points.

1,379,008. TEMPERATURE-PRODUCING MECHANISM AND CONTROLLING MEANS THEREFOR. ALBERT B. FRENIER, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,463. 24 Claims. (Cl. 158—28.)



1. In combination, a heating device including a fire-box, a liquid fuel burning combustion chamber mounted within said fire-box and independent thereof, a liquid fuel atomizer for spraying liquid fuel into said combustion chamber, and means for igniting said fuel, said combustion chamber operating to substantially confine said flame within said chamber and to prevent same from impinging against the walls of said fire-box.

1,379,009. CALCULATING-MACHINE. CARL M. F. FRIDEN, Piedmont, Calif., assignor to Marchant Calculating Machine Company, Oakland, Calif., a Corporation of California. Filed Nov. 11, 1919. Serial No. 337,156. 10 Claims. (Cl. 235—63.)



1. In a calculating machine, a plurality of adjustable tooth wheels, means for rotating said wheels, a plurality of figure disks coöperating with said wheels, a zero setting mechanis massociated with said disks, a shaft operatively connected with and rotatable with said wheels, and a longitudinally movable pin associated with said zero setting mechanism adapted to engage said shaft and prevent rotation thereof when the zero setting mechanism is out of neutral position.

6. In a calculating machine, a plurality of adjustable tooth wheels, means for rotating said wheels, a plurality of figure disks coöperating with said wheels, a plurality of figure disks coöperating with said rotating means, a zero setting mechanism associated with each plurality of disks and means operative when either zero setting mechanism is out of neutral position for locking said wheels against rotation.

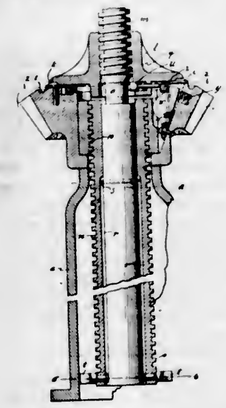
9. In a calculating machine, a setting mechanism, a registering mechanism, a zero settting mechanism including a shaft extending through the registering mechanism, and a pin engaging the shaft and disposed radially with respect to the axis of the shaft, and adapted to be moved by rotation thereof into engagement with said setting mechanism.

1,379,010. BOTTLE-CRATE. JOHN M. GAYNER, Salem, N. J., assignor to Gayner Glass Works, Salem, N. J., a Corporation of New Jersey. Filed Mar. 1, 1920. Serial No. 362,535. 1 Claim. (Cl. 217—49.)



A crate having a body of upright wooden slats, and circumferential wooden hoops, the terminals of the latter overlapping, and metallic plates on the outer faces of said terminals adjacent to the exposed edges thereof adapted to reinforce said terminals and form guards on said edges, said slats, the overlapping terminals of said hoops and said plates being secured together.

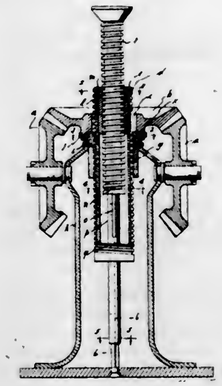
1,379,011. JACK. HENRY T. GIBBARD, Highland Park, Mich. Filed Feb. 27, 1920. Serial No. 361,794. 12 Claims. (Cl. 254—102.)



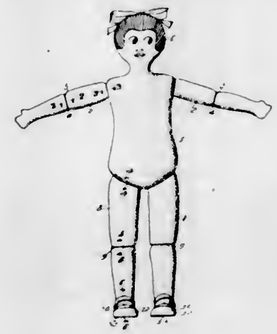
1. In a jack, the combination of a standard, a pair of telescoping screw lifting members in the standard, a pair of nuts one for actuating each screw, a gear for actuating the nuts one at a time, and means for coupling up the gear to the nuts selectably so that when one screw has reached the limit of its movement the other nut is connected with the gear to actuate the other screw.

1,379,012. JACK. HENRY T. GIBBARD, Highland Park, Mich. Filed Mar. 24, 1920. Serial No. 368,229. 7 Claims. (Cl. 254—102.)

1. In a jack, the combination of a standard, a nut stationarily supported in the standard, a screw having threads engaging in said nut, means held from traveling up or down for rotating the said screw, a nut rigidly secured in said screw and having threads running in the opposite direction to the threads on the exterior of said screw, a second screw provided with opposite threads engaging in the threads of said rotating nut, and means independent of the load upon the jack for holding said screw against rotation whereby when the said outer screw is rotated both screws will rise and fall together.



1,379,013. JOINTED RAG DOLL. GLADYS GOSS, Nevada, Mo. Filed Oct. 23, 1920. Serial No. 419,020. 2 Claims. (Cl. 46—40.)



2. A doll comprising a body, arms and legs joined by stitching to appropriate portions of said body, and swingable with relation thereto, said arms and legs being formed in sections jointed at the elbow and knee portions of each by single rows of stitching arranged adjacent certain of the sides of each of the corresponding ends whereby to permit of swinging motion of the free portions of said arms and legs in but one direction, said corresponding ends of the sectional arms and legs being relatively flat, and feet formed on the lower ends of the free portions of said legs being enlarged with respect to said body and flattened whereby to support the latter in a vertical position.

1,379,014. COVER FOR WASHING-MACHINE TUBS. DAVID D. GREEN, Milwaukee, Wis. Filed Mar. 22, 1920. Serial No. 367,657. 4 Claims. (Cl. 220—42.)

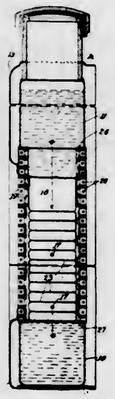
1. The combination with a receptacle having an opening bounded by plane edge faces, the opposing faces being parallel, certain of said faces being inclined obliquely and a removable cover member having end faces engageable

with the edge faces of the receptacle opening and having certain of its faces inclined obliquely to correspond to the



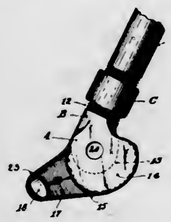
inclination of the inclined faces of the receptacle opening, and means for securing said cover member with its outer surface flush with the outer surface of the receptacle.

1,379,015. RADIATOR. RAYMOND L. HAWKINS, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 28, 1917, Serial No. 165,071. Renewed Nov. 21, 1918. Serial No. 263,635. 8 Claims. (Cl. 257—130.)



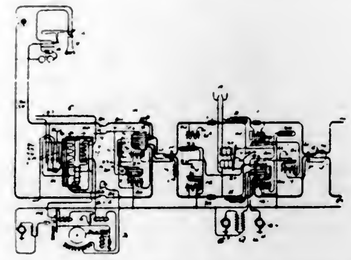
1. A radiator core comprising a series of flat vertical tubes, semi-hexagonally corrugated at each edge thereof only, a series of intermediate spacing members semi-hexagonally corrugated at each edge thereof only, said tubes and spacing members being so disposed relatively to one another as to form a series of hexagonal apertures at each face of the core.

1,379,016. COMBINED HAND AND STATIONARY CONDUIT-BENDER. ROBERT HALSEY HENDERSON, East Orange, N. J. Filed June 5, 1919. Serial No. 302,038. 4 Claims. (Cl. 153—40.)



1. A pipe bender, comprising a curved element terminating in a shank adapted to receive a handle, said element having integral parallel side flanges providing with said element a peripheral groove substantially conforming in width to the diameter of the pipe to be bent and which where the bending operation occurs is deeper than the radius of said pipe whereby tendency of the latter to expand laterally under bending strains causes the same to be gripped between said side flanges to thereby prevent kinking or collapsing thereof, and one of said flanges having an extension provided with a transverse abutment post spaced outwardly from the forward end of said groove to provide an entrance gap between the former and the latter.

1,379,017. SEMI-AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., and HARRY E. HERSHEY, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1916. Serial No. 79,662. 38 Claims. (Cl. 179—27.)



36. In a telephone system, calling and called lines, a plurality of automatic switches having access to called lines, manual equipment for controlling one of said switches to find said called line, a signal for said calling line and a signal in said equipment, means for releasing said switch when the called line is busy, and a relay in said equipment operated when the switch is released to operate said signals.

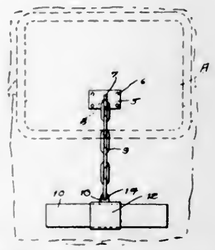
1,379,018. SURFACE-COATING COMPOSITION. ALBERT C. HOLZAPFEL, New York, N. Y. Filed May 25, 1920. Serial No. 384,174. 9 Claims. (Cl. 134—51.)

1. A surface coating composition consisting of approximately from 30 to 40 parts by weight of pitch derived from the treatment of oils and fats and from 60 to 70 parts by weight of a hydrocarbon solvent.

1,379,019. SURFACE-COATING COMPOSITION. ALBERT C. HOLZAPFEL, New York, N. Y. Filed Nov. 29, 1920. Serial No. 427,184. 8 Claims. (Cl. 134—51.)

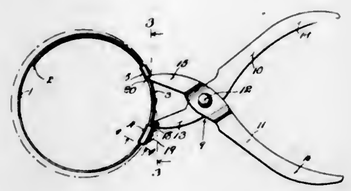
2. A surface coating composition containing approximately from 30 to 40 parts by weight of pitch derived from the treatment of oils and fats, 60 to 70 parts by weight of a hydrocarbon solvent, and not more than 25 parts of titanium oxid.

1,379,020. HANDLE. WALLACE J. HOTCHKISS, Alpena, S. D. Filed Feb. 21, 1921. Serial No. 446,678. 1 Claim. (Cl. 16—10.)



A handle of the character described comprising a supporting plate, a lug projecting from one face of the supporting plate, a chain having one end connected to the lug, a connecting member having a lug projecting from one face and adapted to be connected to the opposite end of the chain, a hand grip disposed in said connecting member, said hand grip extending beyond each end of the connecting member, one face of said connecting member extending beyond the adjacent face of the hand grip, to prevent contact of the hand grip with the support of the supporting plate.

1,379,021. PISTON-RING EXPANDER AND CONTRACTOR. ORVEY JOHNSON, Madison, Wis., assignor to The Johnson Specialty Company, Madison, Wis. Filed Dec. 3, 1919. Serial No. 342,108. 3 Claims. (Cl. 29—86.4.)



1. A device of the class described comprising an expansile and contractile collar having its ends adapted to be overlapped, one end portion having a plurality of openings arranged longitudinally of the collar, a pair of expanding and contracting handles, one being hinged and pivoted to one end portion of the collar, and a finger on the other handle for selective coöperation with any of said openings.

1,379,022. PROCESS OF PRODUCING FERROSILICON. JOHN TYLER JONES, Pittsburgh, Pa., assignor to Thomas J. Howells, Pittsburgh, Pa. Filed Oct. 26, 1917. Serial No. 198,673. 2 Claims. (Cl. 75—17.)

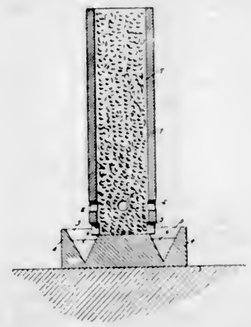
1. The herein described process of producing ferrosilicon, which consists in crushing the ore to a fineness approximating twenty to one hundred mesh, crushing bituminous coal to substantially the same fineness, mixing an excess of the coal with the ore, heating the mixture substantially out of the presence of air, to coke the coal and to bring the metal portions of the ore into a metallic state, and subsequently burning out the coke and melting the metal into the alloy.

1,379,023. METALLURGICAL PROCESS. JOHN TYLER JONES, Pittsburgh, Pa., assignor to Thomas J. Howells, Pittsburgh, Pa. Filed Oct. 26, 1917. Serial No. 198,674. 2 Claims. (Cl. 75—17.)

1. The herein described process of treating metalliferous ores, which consists in crushing the ore to a fineness approximating twenty to one hundred mesh, mixing with the crushed ore an excess of crushed coal having substantially the same fineness, heating the mixed ore and coal together, substantially out of the presence of air, to a temperature sufficient to coke the coal and to produce an agglomerated mass resembling coke, and subsequently separating the metals from the coke.

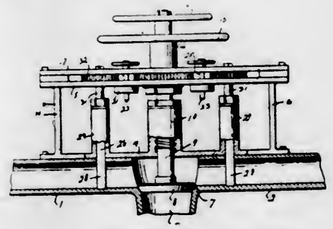
1,379,024. PROCESS OF REDUCING IRON FROM THE ORE. JOHN TYLER JONES, Pittsburgh, Pa., assignor to Thomas J. Howells, Pittsburgh, Pa. Filed Dec. 20, 1917. Serial No. 208,088. 5 Claims. (Cl. 75—14.)

1. The herein described process of reducing iron from its ore, which consists in mixing the ore with coal, heating the mixture out of the presence of a flux and substantially out of the presence of air to coke the coal, and



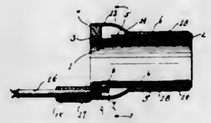
to reduce the iron to the metallic state, crushing the coked mass and separating the iron from the coke magnetically.

1,379,025. VALVE. LAWRENCE JONES and ISAIAH JONES, Granger, Utah. Filed May 17, 1920. Serial No. 381,863. 7 Claims. (Cl. 277—50.)



1. A body containing a plurality of valves, an operating member for one of said valves, a second operating member, and an operative connection between said second operating member and each of the remaining valves, each of the operative connections between the second operating member and one of the remaining valves being independently movable into or out of working position.

1,379,026. HAIR-WAVING HEATER. FRANK LANTIERI and GABRIEL LANTIERI, Newark, N. J. Filed Nov. 26, 1919. Serial No. 340,896. 4 Claims. (Cl. 219—24.)



1. In a device of the character described, the combination with a hollow cylinder having flanged ends, of a collar of insulating material mounted upon the said cylinder and seated against one of the said flanges, layers of insulating material surrounding the said cylinder, a coil of resistance wire arranged between said layers of insulation, conductors passing through the said collar and connected with the said resistance wire, a cupped shell having its larger end encircling and in contact with the said collar, the said shell surrounding the said cylinder and layers of insulation and extending from the said col-

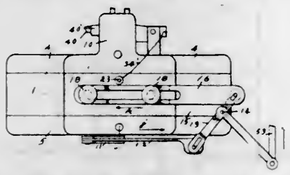
lar for a part of the length of the cylinder, and asbestos twine binding encircling the said cylinder and insulating layers between the end of the shell and the other flanged end of the cylinder whereby the insulation, coil, shell and the said collar are secured in place.

1,379,027. HAIR-WAVING TUBE. FRANK LANTIERI and GABRIEL LANTIERI, Newark, N. J. Filed Dec. 6, 1919. Serial No. 343,000. 2 Claims. (Cl. 132—36.)



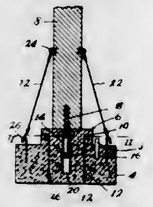
1. A device of the class described, comprising a tubular member having a strip of fabric fastened to the exterior and interior surfaces of said tubular member forming a folded portion adjacent the end of said tubular member, and means located in the folded portion of said strip of fabric adapted to draw said folded portion together, thereby contracting the end of said tubular member so as to close the latter.

1,379,028. ROTARY ENGINE. FRANCIS LEROY HORSPOOL, Salt Lake City, Utah. Filed May 27, 1919. Serial No. 300,097. 10 Claims. (Cl. 123—14.)



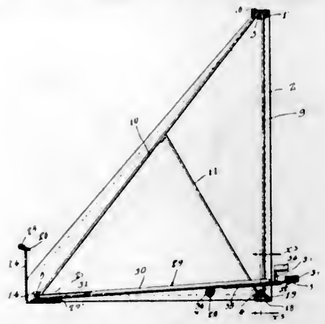
1. In an internal combustion rotary engine the combination of a casing provided with a front and back wall and a water cooling space, an explosive chamber located within said casing between said front and back wall, a reversing valve in said explosive chamber for reversing the travel of the engine, a shaft for said reversing valve, one end of said shaft being journaled in the inner face of said front wall and the other end passing out through said back wall, a lever attached to the end of said shaft that passes out through sid back wall, a bell crnk lever, o connecting rod attached to said lever and connecting with the bell crank lever, said bell crank lever fulcrumed to a bracket secured to said casing, said lever connecting rod and bell crank lever for operating said reversing valve, sliding abutments, a sliding bar connected to said bell crank lever for raising and lowering the sliding abutments, and a rod attached to said bell crank lever for operating same.

1,379,029. COMBINATION WOOD AND CEMENT POST. WILLIAM B. MCDONALD, Lawrence, Kans. Filed Mar. 1, 1920. Serial No. 362,212. 1 Claim. (Cl. 72—84.)



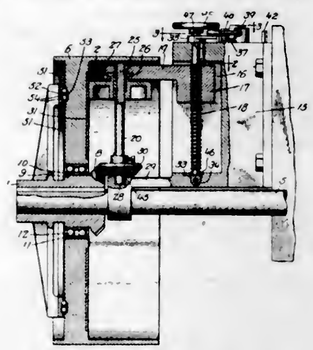
In a device of the character described, a concrete base provided at its upper side with a square projection, a threaded member embedded in said base, means to reinforce said base, a post to fit upon the projection on the base, a threaded member secured to the post and adapted to engage the threaded member on the base and secure the post in position, hooks embedded in the base, and braces connected to said hooks and the post to secure the latter upon the former.

1,379,030. RECORD-FILE. TAYLOR MCDOUGALL, Pasadena, and SULLY RUSSO, Los Angeles, Calif.; said McDougall assignor to said Russo. Filed Apr. 2, 1918. Serial No. 226,138. 5 Claims. (Cl. 211—16.)



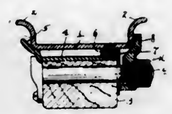
2. In a record file, the combination of end members, upper and lower rods fastened at their ends to the end members, another rod fastened to the end members rearward of the lower rod, wires extending from the rear rod aslant upward and forward over the upper rod, thence downward under the lower rod, thence aslant upward and rearward to the respective wires and fastened thereto, and means on the rods to prevent the wires from slipping along the rods.

1,379,031. POWER-TRANSMITTING DEVICE. ARTHUR D. MCPHERSON, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,768. 3 Claims. (Cl. 74—26.)



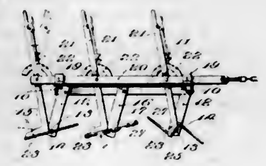
1. A power transmitting device comprising a drive shaft, a pulley having an overhanging rim rotatably mounted thereon, a gear wheel rotated by said drive shaft, a driven shaft, a gear thereon meshing with the gear on said drive shaft, a friction wheel slidably moundted upon and rotated by said drive shaft and adapted to engage a radial surface of said pulley, said gear wheels, driven shaft and friction wheel within the driven pulley, a bracket, an arm slidably mounted on said bracket and carrying said wheel to vary the position thereof relative to the axis of said drive shaft and said pulley, and a screw for moving said arm.

1,379,032. VEHICLE-WHEEL WITH DEMOUNTABLE RIM. JOHN C. MANTERNACH, Lakewood, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 26, 1918. Serial No. 246,880. 3 Claims. (Cl. 301—19.)



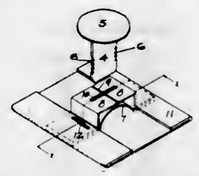
1. The combination with a wheel body having similarly inclined, transversely beveled surfaces adjacent its respective edges; of a demountable rim adapted to be directly wedged onto said wheel body, said rim being formed to engage one such beveled surface substantially around its entire circumference and to engage the other such surface at circumferentially spaced points only; and surfaces on said wheel body and rim adapted to be brought into interengagement by the flattening of the arcs of said rim between such points, substantially as and for the purpose described.

1,379,033. LAND-DRAG. CHARLES A. MATHENY, Kingston, Tenn. Filed Apr. 10, 1919. Serial No. 289,082. 2 Claims. (Cl. 55—23.)



2. In a land drag, a frame, depending bearing brackets carried by the ends of the frame, a ground treating element mounted in the brackets for rotatable adjustment and having upper and lower flat faces, a vertical lever pivotally supported on the frame and arranged to be set in different angular positions and having an angular foot on its lower end for alternate engagement with the flat faces of the said element to hold the element at different angles with respect to the ground.

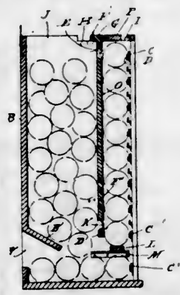
1,379,034. TIE-FASTENER. WILLEVE T. MERRIMAN, Jackson, Mich. Filed Mar. 15, 1920. Serial No. 366,026. 3 Claims. (Cl. 24—64.)



1. A tie fastener comprising a headed stud; a tie; and a flexible securing member attached to said tie and releasably engaging said stud, said securing member being arranged and adapted to automatically engage said stud and release it by flexing produced by compression of said securing member, substantially as described.

1,379,035. DISPLAY-CABINET. ALBERT C. MICHEL, Granite City, Ill. Filed Aug. 9, 1920. Serial No. 402,204. 4 Claims. (Cl. 211—9.)

3. A display cabinet comprising a box having an open front, a partition mounted parallel to said front forming a display compartment for globular fruits, and cross bars adjustably mounted in said front and adapted to be spaced



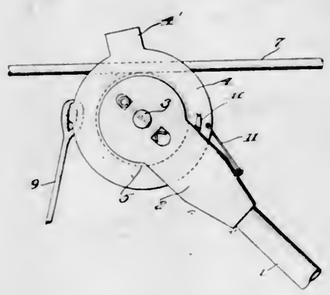
a variable distance apart and less than the diameter of said contained fruits.

1,379,036. PROCESS OF SECURING METALLIC MEMBERS TOGETHER. OTIS B. MOORHEAD, San Francisco, Calif. Filed Mar. 10, 1919. Serial No. 281,883. 4 Claims. (Cl. 29—148.)



1. The process of securing together a thin hard metallic element and a larger and softer metallic element, which consists in arranging the elements in superposed relation and subjecting the elements so arranged to a suitable number of blows to press the hard element in the softer element and cause a flow of the metal of the softer element.

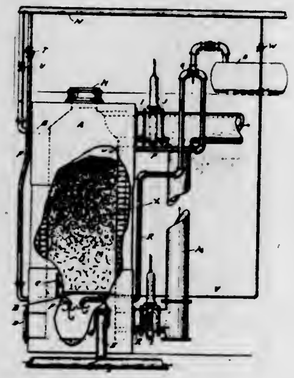
1,379,037. TROLLEY-POLE HEAD. HOWARD F. NORMAN, Newtonville, Mass. Filed Apr. 16, 1920, Serial No. 374,440. Renewed Mar. 30, 1921. Serial No. 457,025. 5 Claims. (Cl. 191—79.)



1. The combination with a trolley pole having a harp at its upper end of a guard rotatably mounted in said harp, said guard comprising two side members provided with fixed upwardly-extending fingers having inwardly-disposed end portions normally out of contact with the trolley wire and separated by a gap sufficiently wide to permit said wire to pass therethrough, a member rigidly connecting said side members and arranged for the connection of a manipulating cable, means resiliently connecting said guard to the trolley pole and maintaining

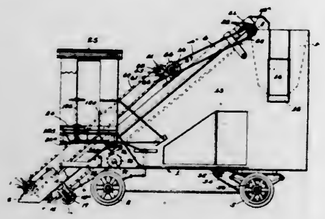
said fingers in upright position, and a contact wheel mounted for rotation in said harp and having its sides in close contact with the inner sides of said guard.

1,379,038. PROCESS OF MANUFACTURING WATER-GAS. WILLIAM WALLACE ODELL, Urbana, Ill. Filed Nov. 7, 1918. Serial No. 261,567. 1 Claim. (Cl. 48—208.)



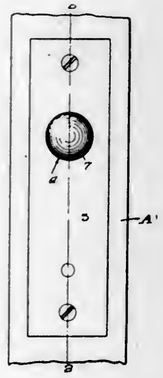
A process for the manufacture of combustible gas by an intermittent method, using bituminous coal or other solid fuel containing volatile combustible matter, consisting in first heating a bed of ignited fuel in a generator by blasting it with air, using an up blast only, from beneath the fuel bed, and using simultaneously with this air blast a relatively small amount of steam also injected from beneath the fuel bed during the fore part of the blast period only, for the prevention of smoke, prolonging said blast, so as to better heat the upper zones in the fuel bed, shutting off said air, as well as the steam used therewith, and making up-and-down runs, a small quantity of air being injected with the steam, during each of said runs, for the purpose of prolonging the period of said runs, and making at least two up runs to every down run for the purpose set forth.

1,379,039. MOTOR LOADING-MACHINE. FREDERICK PLATTO, Brewerton, N. Y. Filed June 6, 1919. Serial No. 302,277. 8 Claims. (Cl. 37—25.)



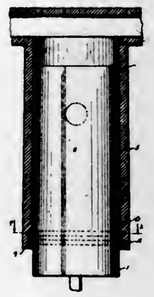
1. In a motor loading machine, the combination of a truck, a conveyer mounted on the truck including a frame including downwardly and forwardly and terminating in a scoop at its lower end located in front of the truck, and a conveyer belt carried by said frame, a power plant mounted on the truck beneath the rear portion of the conveyer, connections between the power plant and the conveyer belt, a platform carried by the truck above the front portion of the conveyer, and means for controlling the operation of said connections including levers located on said platform, substantially as and for the purpose specified.

1,379,040. CATCH FOR SCREEN-DOORS AND THE LIKE. LEWIS MARION PRATT, Eldorado, Kans., assignor of one-half to Roy Austin Medlin, Eldorado, Kans. Filed May 1, 1920. Serial No. 378,265. 1 Claim. (Cl. 292—73.)



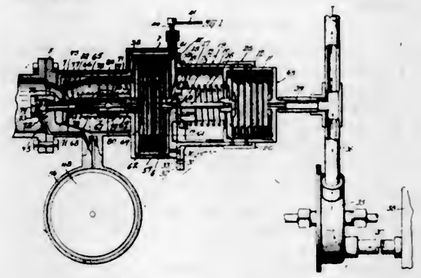
The combination with a strike plate having an elongated opening therein, there being a recess back of the strike plate, of a door having a recess extending longitudinally within one edge thereof, a face plate extending across the recess and having a circular opening therein, said opening, when the door is closed, being in register with a portion of the elongated opening in the strike plate, an elongated spring strip within the recess and secured at one end to the face plate, said spring having a circular opening in the free end portion thereof, and a ball of a diameter greater than the diameters of the openings in the face plate and in the spring, said ball being normally clamped between the face plate and the spring and with a portion thereof projected through the opening in the face plate for engagement in the opening in the strike plate, said ball having a rolling contact with the strike plate during the movement of the door to open or closed position, the spring being extended longitudinally along lines extending across the plane of rotation of the door during such rolling contact.

1,379,041. CYLINDER AND PISTON CONSTRUCTION. OSWALD S. PULLIAM, New York, N. Y. Filed Feb. 27, 1920. Serial No. 361,738. 5 Claims. (Cl. 74—108.)



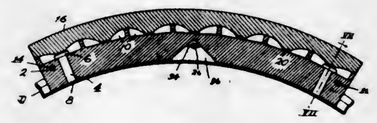
1. A cylinder and piston construction comprising a cylinder having a longitudinal taper, a piston having a corresponding longitudinal taper, and means for forming a tight joint between said piston and the walls of said cylinder.

1,379,042. ENGINE-SPEED-REGULATING CARBURETER. CHARLES L. RAYFIELD, Chicago, Ill. Filed Sept. 8, 1917. Serial No. 190,326. 3 Claims. (Cl. 137—143.)



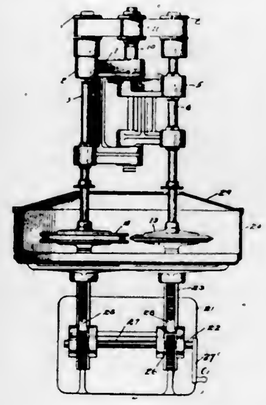
1. A carbureter having a fuel nozzle; a valve, operable by suction effect of the engine for controlling the nozzle; a sub-atmospheric motor responsive to the suction effect of the engine controlling said valve; another valve to vary the effect of the engine upon said motor and a speed variable means controlling the latter valve.

1,379,043. TIRE. THEODORE J. REED, Kansas City, Mo. Filed June 26, 1919, Serial No. 306,849. Renewed Apr. 2, 1921. Serial No. 458,083. 3 Claims. (Cl. 152—9.)



1. A tire consisting of a ring comprising a plurality of relatively nonresilient segments having air pockets therein, and a resilient tread extending around said ring and consisting of sections secured to the ring segments and provided with protuberances that project into the air pockets, substantially as described.

1,379,044. MACHINE FOR GROOVING AGATES AND SIMILAR STONES. ORWELL C. REEVES, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,429. 21 Claims. (Cl. 125—30.)



1. In a machine of the character described, a rotatable member adapted to carry the material to be grooved, a member having a cutting edge, and means for automatically holding the cutting edge in engagement with the material when desired.

1,379,045. PROCESS FOR REDUCING ACIDITY OF OILS. FRANK OLIN RITTER, Edgemoor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 17, 1918. Serial No. 250,335. 8 Claims. (Cl. 87—12.)

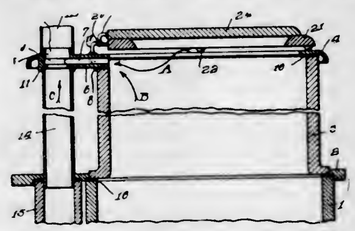
1. The process which comprises treating an oil containing a free fatty acid with a solution of an alkaline substance to form an emulsion, salting out the oil and soap, the said oil and soap separating together as an emulsion, and then washing out the soap thus formed.

1,379,046. DENTIFRICE. WILLIAM S. ROGERS, New York, N. Y. Filed Sept. 23, 1919. Serial No. 325,667. 2 Claims. (Cl. 167—9.)

1. A dentifrice including in its composition sulfur and an alkaline material substantially as described.

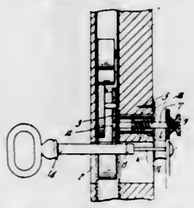
2. A dentifrice compounded with sulfur lotum and perborate of soda.

1,379,047. SEWAGE-DISPOSAL SYSTEM. CORNEALIUS WELKER RUSSELL, Burlington, Iowa. Filed Apr. 20, 1920. Serial No. 375,325. 1 Claim. (Cl. 4—21.)



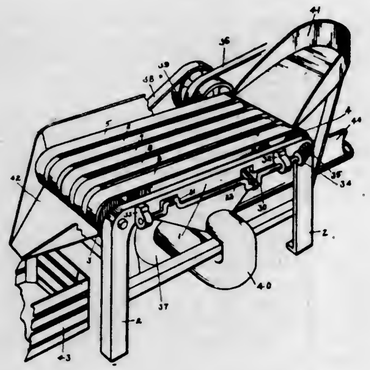
In a device of the class described, a tubular body; a ring supported on the body and having a lateral extension provided with an approximately vertical bore and with an approximately horizontal passage establishing communication between the interior of the body and the bore; vent pipe sections coöperating with the upper and lower surfaces of the extension and forming continuations of the bore; standards secured to the lateral extension of the ring and located on opposite sides of the passage; a seat; a lid; means for supporting the lid and the seat for swinging movement on the standards; and means for spacing the seat from the ring, to permit an inward draft of external air into the bore by way of the body and the passage.

1,379,048. SAFETY DEVICE FOR LOCKS. PAUL SCHOLL, Berlin, Germany, assignor to Ernst Ahlert, South Pasadena, Calif. Filed Nov. 10, 1920. Serial No. 423,178. 8 Claims. (Cl. 70—14.)



1. In combination with a door lock, having a perforated latch, a bolt extending from the inner side of the door and adapted to enter an aperture in said latch, and means secured to the key for withdrawing the bolt from the latch and means for preventing access to said bolt by said key secured means.

1,379,049. ONION-TOPPING MACHINE. FRANK J. SCHROEDER, Rochester, N. Y. Filed Oct. 21, 1920. Serial No. 418,558. 8 Claims. (Cl. 146—7.)

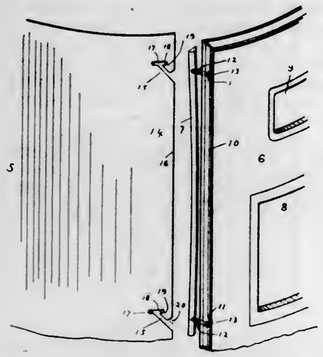


1. In an onion topping machine, the combination of a casing having longitudinal slots therein, means for creating a partial vacuum in said casing, means for conveying onions on either side of the slots in said casing and parallel thereto, and means for clipping off the tops of the onions pulled into the slots of the casing by the partial vacuum created in said casing.

1,379,050. NICKEL-PLATING SOLUTION. LOUIS SCHULTE, Pittsburgh, Pa., assignor to E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del., a Corporation of Delaware. Filed July 24, 1918. Serial No. 246,531. 12 Claims. (Cl. 204—5.)

1. A nickel plating solution containing sulfate of sodium and single and double nickel salts.

1,379,051. HEATER-CASING CONSTRUCTION. JACOB J. SEEMANN, Utica, N. Y., assignor to Utica Heater Company, Utica, N. Y., a Corporation. Filed Feb. 24, 1919. Serial No. 278,760. 2 Claims. (Cl. 126—114.)



1. In a heater casing construction the combination of a panel front having its side edges provided at intervals with bolt-receiving apertures, a rod at the rear of each side edge of said panel front, bolts extending loosely through said apertures in the panel front and in adjustable engagement with said rods and a casing having its opposite ends over-lapping the side edges of the panel front, said ends of the casing being provided with a plurality of slots extending in from the edge of said ends in a slanting direction and terminating with an enlargement substantially at right angles with said end edges, the ends of the casing being located between the side edges of the panel front and said rods with the bolts extending through said enlargements.

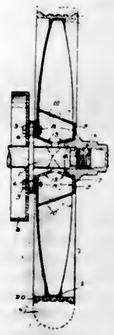
1,379,052. PLASTIC COMPOSITION. ELIEL L. SHARPNECK, Bakersfield, Calif. Filed Aug. 12, 1920. Serial No. 402,993. 2 Claims. (Cl. 106—31.)

1. A plastic composition comprising approximately 73 to 86 per cent. of a finely divided filler, 8 to 20 per cent. of mineral asphaltum, 1 to 2½ per cent. of pulverized borax and 5 per cent. of Portland cement.

1,379,053. PLASTIC COMPOSITION. ELIEL L. SHARPNECK, Bakersfield, Calif. Filed Aug. 12, 1920. Serial No. 402,994. 2 Claims. (Cl. 106—31.)

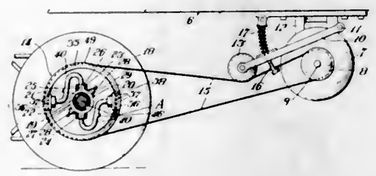
1. A plastic composition comprising approximately 73 to 86 per cent. of a finely divided filler, 8 to 20 per cent. of mineral asphaltum, 1 to 2½ per cent. of magnesium chlorid and 5 per cent. of Portland cement.

1,379,054. WHEEL. ALVIN H. SHOEMAKER, Seattle, Wash., assignor to Knappen Finance Company, Seattle, Wash., a Corporation of Washington. Filed July 8, 1918. Serial No. 243,963. 4 Claims. (Cl. 301—64.)



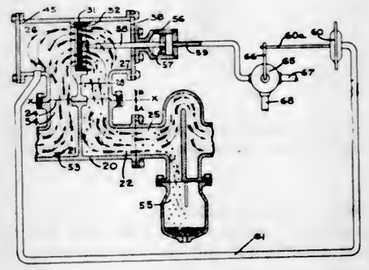
1. In a wheel, a rim, a sheet steel web connecting the hub and rim of the wheel, formed with radial convolutions which are of greater depth adjacent the hub and tapering to shallower depths at its periphery and means for radially expanding said web.

1,379,055. AXLE TRANSMISSION FOR RAILWAY-CARS. EUGENE G. SMITH, Chicago, Ill. Filed Dec. 31, 1920. Serial No. 434,201. 6 Claims. (Cl. 105—105.)



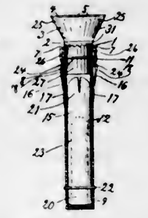
6. In mechanism of the class described, the combination with a driven member and a driving member in power transmission relation to each other, the driving member including a car axle, a demountable hub rigidly fixed to the axle, a plurality of fellies, felly-plates formed with journal bearings fixed to the contiguous ends of the fellies, and a plurality of spokes journaled at their inner ends in said hub, and journaled at their outer ends in the bearings carried by said felly-plates, and a belt-tightening device.

1,379,056. PURIFICATION OF GAS. HARRY F. SMITH, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 29, 1917. Serial No. 145,314. 11 Claims. (Cl. 183—44.)



1. A method of purifying gases which consists in passing the gas through a pervious diaphragm, and varying the density of such diaphragm to keep substantially constant the differential pressure on opposite sides thereof.

1,379,057. FOUNTAIN-PEN. THOMAS C. SPELLING, New York, N. Y. Filed Nov. 6, 1918. Serial No. 261,420. 9 Claims. (Cl. 120—1.)

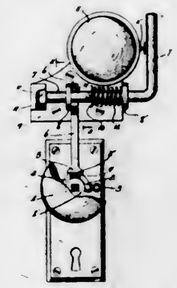


4. In a writing implement comprising a tube, a cap, a shield, carrying member, and a stopper, means for binding and impacting the tube and cap oppositely on an encircling exterior shoulder of the stopper, the means consisting of oppositely positioned resilient arms securely attached to the tube, the arms having detachable engagements in notches in the neck of the cap.

9. In a writing implement comprising a tube, a cap, a shield carrying member and a stopper, means for increasing the top area of the cap, in detached use, the means consisting of flat arms pivoted in and on the top of the cap and converged to interlocked relation, centrally, one of the interlocking arms formed of resilient material.

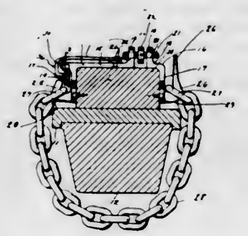
1,379,058. BURGLAR-ALARM. JOHN S. SPIREWKA, Jr., Milwaukee, Wis., assignor of one-third to Daniel C. O'Connell and one-third to James E. O'Connell, Milwaukee, Wis. Filed Feb. 28, 1921. Serial No. 448,441. 2 Claims. (Cl. 116—92.)

1. In a door having a rotary knob shank; the combination of an alarm mechanism associated therewith comprising a bracket having alined apertured ears and an explosive cap lug, a plunger rotatably and slidably mounted in the apertures, the plunger having a resetting arm extending from one end, a collar secured to the plunger, a coil spring surrounding the plunger between the collar and one of the bracket ears, a key extending from said plunger, a reciprocative lock and release finger having a looped head through which the plunger extends, the looped head being provided with a key way which is normally offset from the line of travel of the plunger key,



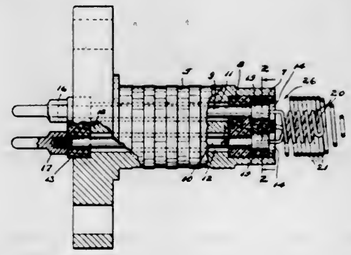
and an actuating cam for the lock and release finger, the same being detachably secured to the shank of the knob.

1,379,059. ANTISKID DEVICE. GEORGE STAPLES, Oshkosh, Wis., assignor to Staples and Seefeld, Milwaukee, Wis., a Milwaukee Partnership. Filed Aug. 11, 1919. Serial No. 316,844. 4 Claims. (Cl. 152—2.)



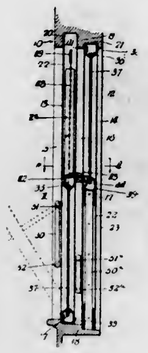
3. An attaching device for non-skid tread members comprising a bracket member engageable with a vehicle wheel, a hook carried thereby for detachably receiving a tread member terminal link, and means for closing the throat of said hook to releasably secure the tread member terminal link therein including a spring member movable into the throat of said hook and having a projection adapted to project a slight distance into the throat of the hook to insure a positive locking of the tread member terminal link therein.

1,379,060. IGNITER. HENRY W. SUMNER, Seattle, Wash. Filed July 14, 1919. Serial No. 310,821. 6 Claims. (Cl. 123—145.)



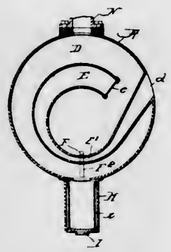
3. Ignition devices including an electrically heated ignition coil and a shield formed of a coil of wire surrounding said ignition coil.

1,379,061. WINDOW CONSTRUCTION. JOSEPH SYLVAN, Chicago, Ill. Filed July 19, 1920. Serial No. 397,390. 6 Claims. (Cl. 20—49.)



1. A window construction comprising, in combination with a window frame having upright side grooves, runners slidable in said grooves, a window sash pivoted at one end to said runners, and capable of a swinging opening movement with respect thereto, window weight cords connected to said runners, and means limiting the swinging opening movement of the sash with respect to said runners, said means acting to lock said runners against the action of the window weight cords as the window sash swings into its open position.

1,379,062. AIR-WASHER FOR INTERNAL-COMBUSTION ENGINES. PERCIVAL S. TICE, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,602. 5 Claims. (Cl. 261—115.)



2. An air washing and moistening device for internal combustion engines comprising a water supply chamber, a washing chamber; an air conduit within the washing chamber, opening at one end for air discharge at a relatively high point therein, and at the other end for air inlet from without said washing chamber; a conduit for water from the water supply chamber, having its intake at a relatively low level in said water supply chamber, discharging into the air conduit at a point near the lowest part of the course of said conduit; the water conduit being constructed for being closed air-tight, except as to water discharge through said conduit.

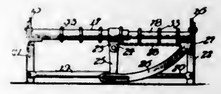
1,379,063. DENTAL SHELL. GEORGE L. VAN ALLEN, Prince Bay, N. Y., assignor to Baker & Company, Inc., a Corporation of New Jersey. Filed Sept. 21, 1918. Serial No. 255,068. 4 Claims. (Cl. 29—182.)

1. A dental shell having one end closed and side portions with an outer layer and an inner layer for the entire circumference the outer layer being harder than the inner layer and the inner layer being soft enough so that the



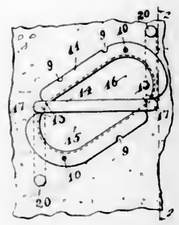
stock is more malleable than it would be if like the outer layer for its entire thickness.

1,379,064. COLLAPSIBLE BED. GEORGE S. WELCH, Chicago, Ill. Original application filed Mar. 11, 1914, Serial No. 823,882. Divided and this application filed Apr. 20, 1917. Serial No. 163,337. 1 Claim. (Cl. 5—8.)



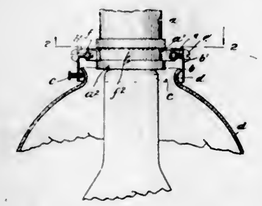
An adjustable folding bed structure of the character described comprising two opposing side members, foot members adapted to be folded against said side members, telescopically operable means connecting said side members, mattress supporting means extending between said connecting means, telescopically operable means connecting said foot members, an auxiliary foot for said bed intermediate said side members, and means operable by the telescopic closing of the bed structure to move said auxiliary foot out of its operative position.

1,379,065. ANCHORING DEVICE. KURT O. WETZEL, Los Angeles, Calif., assignor to K. O. Wetzel Co., Los Angeles, Calif. Filed June 7, 1920. Serial No. 387,079. 3 Claims. (Cl. 72—105.)



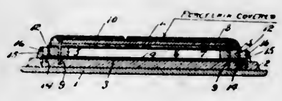
1. In a device of the class described, a body member having an elongated recess in its face, the edges of the body having cut-outs provided in the front face at points diagonally to the elongated recess, the body member being curved away from the edges around the entire periphery of the recess, and an anchor member disposed through such cut-outs in front of the body-recess so as to bring the anchor member flush with the front face of the body and diagonally over the recess in the body.

1,379,066. SHADE-HOLDER. ERNEST CANTELO WHITE, New York, N. Y., assignor to Electric Outlet Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,476. 14 Claims. (Cl. 240—114.)



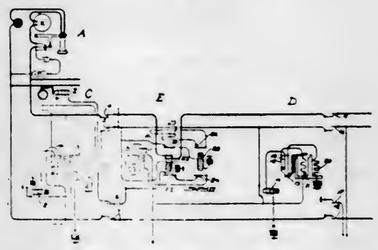
1. A shade holder comprising a carrier, a relatively flexible ring supported within the carrier, and a means to elongate the ring for engagement along its minor axis with the shell socket.

1,379,067. REFRIGERATOR-DOOR CONSTRUCTION. WALTER H. WHITTIER, Grand Rapids, Mich., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Apr. 22, 1919. Serial No. 291,984. 6 Claims. (Cl. 20—35.)



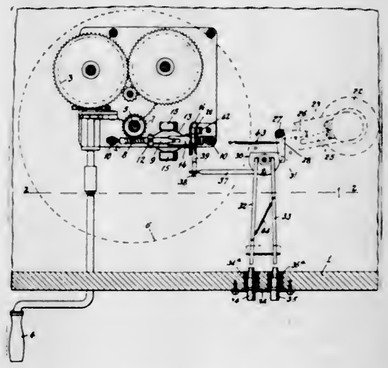
1. In a construction of the character described a door, a metal facing or lining for the door at the rear side thereof having porcelain baked on its outer side, said facing being of pan-like form having squared corners and provided with out turned flanges at the sides thereof terminating a short distance from said corners and adapted to lie against the rear side of the door, and means engaged with said flanges for securing the facing permanently to the door, substantially as described.

1,379,068. MEASURED-SERVICE TELEPHONE SYSTEM. JOHN WICKS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1919. Serial No. 276,463. 10 Claims. (Cl. 179—9.)



1. In a telephone system, a meter, a circuit therefor, a meter controlling relay, means for operating said meter controlling relay to close one point of said circuit, and auxiliary controlling means for delaying the operation of said meter by holding said circuit open at another point.

1,379,069. STARTING AND STOPPING MECHANISM FOR TALKING-MACHINES. MARMADUKE MOORE WILLS, Fitchburg, Mass., assignor to The Regina Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 8, 1919. Serial No. 288,526. 10 Claims. (Cl. 192—116.)



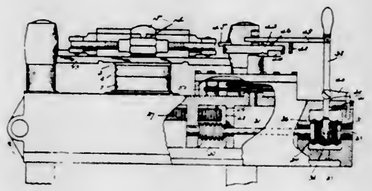
1. In a talking machine, the combination of driving mechanism, a governor controlling said mechanism, means coöperating directly with said governor to start and stop said driving mechanism and a plurality of manually operated devices whereby said means is actuated.

1,379,070. METHOD OF MAKING DRILLS. CHARLES P. WINEMAN, Detroit, Mich., assignor to Detroit Twist Drill Company, Detroit, Mich., a Corporation of Michigan. Filed June 21, 1919. Serial No. 305,798. 4 Claims. (Cl. 76—108.)



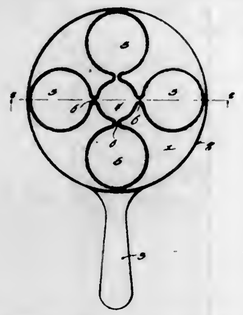
1. In the method of forming a drill, the form-rolling of a polygonal blank to form the fluted portion of the drill.

1,379,071. TWISTING-MACHINE. CHARLES P. WINEMAN, Detroit, Mich., assignor to Detroit Twist Drill Company, Detroit, Mich., a Corporation of Michigan. Original application filed Mar. 7, 1918, Serial No. 220,913. Divided and this application filed July 3, 1919. Serial No. 308,579. 9 Claims. (Cl. 153—78.)



1. In a machine for forming drills or the like, the combination with a plurality of members for non-rotatively engaging different portions of the blank, of means for successively rotating said members through their respective adjacent members, and means for automatically controlling the rotation of said members.

1,379,072. COOKING UTENSIL. FRED G. WINKELMAN, Manitowoc, Wis. Filed Sept. 19, 1919. Serial No. 324,752. 1 Claim. (Cl. 53—7.)

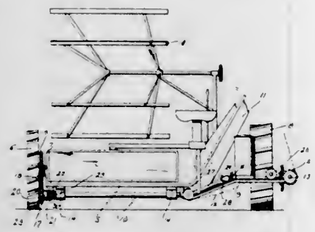


A utensil of the class described comprising a receptacle having a central reservoir for grease or the like, and a plurality of pockets adapted to receive material to be cooked, said pockets being radially disposed about said reservoir and annularly spaced, the bottom of the reservoir being lower than the bottoms of the pockets and connected therewith by chanels, each channel forming with the bottom of the corresponding pocket a drain of constant slope into said reservoir whereby surplus grease placed in the pockets will drain into the central reservoir.

1,379,073. PROCESS OF MAKING PROPELLENT POWDER. RICHARD GEORGE WOODBRIDGE, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 8, 1919. Serial No. 316,030. 17 Claims. (Cl. 52—22.)

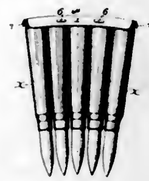
1. The process which comprises impregnating the surface of an explosive grain insoluble in water with a deterrent material, all of the deterrent material used having a melting point above 100° C. and being substantially insoluble in water, by subjecting the grain, while intimately mixed with said deterrent material, to treatment with hot water.

1,379,074. SIDE-DRAFT ELIMINATOR. HALSEY CAMERON ABERN and FELIX J. BAIVIER, Racine, Wis. Filed Mar. 13, 1920. Serial No. 365,673. 1 Claim. (Cl. 56—321.)



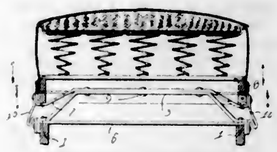
A side draft eliminator for harvesting and binding machines and the like comprising a harvester frame, a main bull wheel supporting one end thereof, a side wheel supporting the other end thereof, a shaft transversely journaled in the frame and having one end thereof terminating adjacent said side wheel, a second shaft journaled in the frame substantially parallel with the other shaft and on a higher plane, an inclined shaft, universal joint means connecting the ends of said inclined shaft with the inner ends of said parallel shafts, and means drivingly connecting the outer ends of said shafts with said wheels.

1,379,075. CARTRIDGE-CLIP. WILLIAM D. ASHWORTH, Philadelphia, Pa. Filed Oct. 23, 1918. Serial No. 259,423. 6 Claims. (Cl. 42—88.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



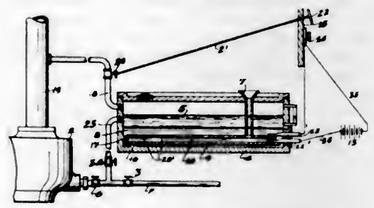
1. In a cartridge clip a case and a normally straight spring having parallel edges and formed to bear against head of cartridge substantially at edge of cartridge head.

1,379,076. SEAT FOR VEHICLES OR THE LIKE. GAYLORD V. BARNES, Alameda, Calif. Filed Mar. 9, 1920. Serial No. 364,418. 1 Claim. (Cl. 155—9.)



In a seat construction for vehicles, a supporting frame disposed transversely of the vehicle body, and means for mounting the seat on said frame whereby it may absorb and overcome horizontal shocks, said means including a plurality of transversely spaced apart arched members supported at their front and rear ends on said frame, and flexible straps secured upon and extending beyond the arched portions of said members and secured at their free ends to the bottom of the seat at its front and rear.

1,379,077. PROCESS AND APPARATUS FOR GENERATING EXPLOSIVE GASES. HENRY BLUMENBERG, Jr., Daggett, Calif. Filed June 11, 1920. Serial No. 388,180. 3 Claims. (Cl. 204—1.)

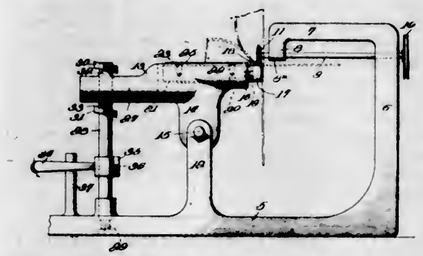


1. A process of producing a gaseous fuel mixture, comprising treating heavy hydrocarbons with hydrogen by passing a mixture of hydrogen and oxygen electrolytically generated through the body of the heavy hydrocarbons.

1,379,078. HAT-TRIMMING MACHINE. LOUIS ORRILL BOUCHARD, Philadelphia, Pa. Filed Jan. 31, 1918. Serial No. 214,775. 8 Claims. (Cl. 164—60.)

1. In a hat trimming machine, the combination with a frame comprising a base, a post fixed to said base, a standard spaced from said post and supported by said base, and an overhanging arm disposed in a plane above said post and projecting from the upper end of said

standard toward said post, and terminating at a point intermediate said post and standard, of a horizontally disposed shaft supported by said standard and having one end projecting toward said post and beyond the end of the overhanging arm, a circular trimming knife fixed to said projecting end of the shaft, a horizontally disposed shaft carried by said post and disposed in a plane below said first mentioned shaft, a work supporting roller carried by said second mentioned shaft and disposed under said trimming knife, one of said shafts being pivotally supported, and manually controlled means for swinging said pivoted shaft to form a clearance between the trimming knife and the work supporting roller.



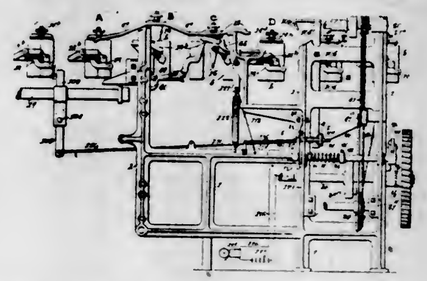
1,379,079. AUTOMOBILE-WHEEL CONSTRUCTION. GEORGE W. BROWNYARD, Los Angeles, Calif. Filed Jan. 18, 1921. Serial No. 438,189. 4 Claims. (Cl. 301—37.)



1. The combination with an automobile wheel having the usual hub, spokes, felly and rim, of metal disks arranged on the side faces of said wheel, the inner edges of which disks are arranged between the hub flanges and the inner portions of the spokes, and the outer edges of said disks being arranged between the felly and rim thereupon.

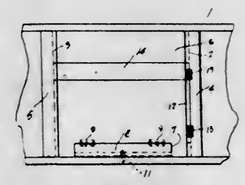
1,379,080. STOP MECHANISM FOR PASTRY-MAKING MACHINES. FREDERICK A. BRUCKMAN, Portland, Oreg. Filed Oct. 25, 1920. Serial No. 419,462. 10 Claims. (Cl. 107—58.)

1. In a pastry making machine wherein is provided relatively movable baking mold units and relatively stationary operating cams therefor, a mold charging mechanism and a shaft from which the mold parts are driven; a stop mechanism comprising a control shaft, means holding said control shaft to the "run" position and



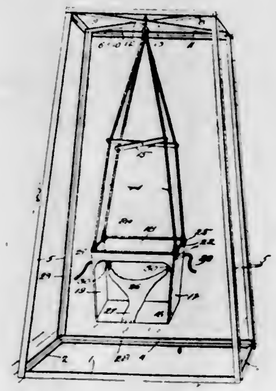
means operative by a disorganized part of the machine for releasing said holding means and moving said control shaft to the "stop" position.

1,379,081. GRAIN-DOOR. TORQUIL CAMPBELL, Vancouver, British Columbia, Canada. Filed Jan. 21, 1920. Serial No. 353,055. 1 Claim. (Cl. 20—27.)



The combination with a car having a door opening, of grooved posts on each side of the opening, a door adapted to fit said grooves and held against inadvertent displacement when seated therein, said door having a discharge opening in its lower edge and a closure member for said opening, and a normally secured hinged member forming the side wall of one of said grooves the lower edge of which is above the lower edge of the door, said hinged member being capable of opening to permit the removal of the door when the latter is raised into alinement with the lower edge thereof.

1,379,082. BABY-SWING. CLARENCE W. CAVANAUGH, Gloucester, Mass. Filed Sept. 16, 1919. Serial No. 324,204. 3 Claims. (Cl. 155—58.)



1. A baby swing having a seat including in its construction a seat bottom; a back wall extending upwardly

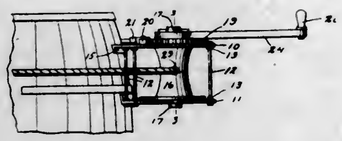
from said seat bottom formed near each side with an aperture; a belt made near its middle with a laterally and downwardly projecting extension secured near its lower end to said seat bottom near the front thereof, said belt being provided at its ends with flexible terminals, extending through the apertures of the back wall and adapted to be fastened together at the rear of said back wall.

1,379,083. APPARATUS FOR TREATING ORES OR THE LIKE. GALEN H. CLEVENGER, Washington, D. C., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1919. Serial No. 289,061. 20 Claims. (Cl. 263—32.)



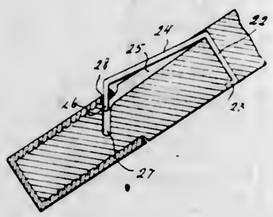
1. A furnace having a reaction zone through which material to be heated is moved progressively, means for passing a combustible gas through said zone and means for progressively burning said gas.

1,379,084. WINDLASS. DAVID B. CONCLIN, Newport, Ky. Filed Sept. 11, 1918. Serial No. 253,597. 1 Claim. (Cl. 147—4.)



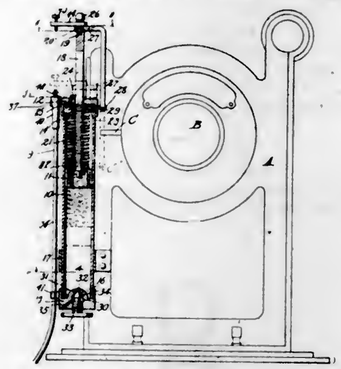
In combination with a flexible tension element to be passed around a cooperage article for drawing the staves together, a frame having laterally extended faces to bear on segmental parts of said article at opposite sides of the plane of the passed-around tension element, a drum rotatably mounted in said frame, said tension element being connected to said drum for winding thereon to contract said element around said article, an operating handle having a sweep in a plane substantially parallel with said plane of said passed-around tension element, and a ratchet mechanism operatively connecting said operating handle to said drum.

1,379,085. RETAINING-LATCH FOR HANDLES. FRANK C. DAVIS, Tucson, Ariz. Filed Nov. 10, 1919. Serial No. 336,839. 1 Claim. (Cl. 306—28.)



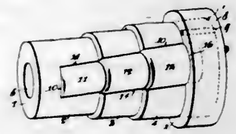
An implement head provided with an internally threaded socket, the marginal edge of which having latch receiving notches, a handle engaging and threaded in said socket, said handle adjacent the socket having an elongated channel extending in a direction longitudinally of the handle and from the socket and terminating at one end in an aperture positioned in a direction angularly of the handle and at its other end in an aperture through the handle and having a grooved extension, a latch comprising a single length of spring wire having one end bent angularly and depressibly engaging the angular extension of the channel with its bent portion overlying the marginal edge of the socket to engage any one of said notches in the socket, thereby holding the head in different positions rotatably relatively to the handle and preventing the handle from disengaging the socket, the other end of the latch passing through the aperture which is formed through the handle, said other end of the latch terminating in a lateral lug extending in a direction to engage the grooved extension, thereby preventing rotatable displacement of the latch.

1,379,086. CAMERA ATTACHMENT. WILLIAM L. DAVIS and HOWARD ENSMINGER, Portland, Oreg. Filed Aug. 9, 1916. Serial No. 114,025. Renewed Sept. 28, 1920. Serial No. 413,406. 2 Claims. (Cl. 161—26.)



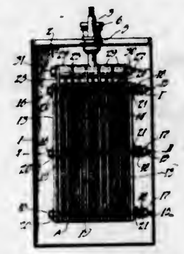
1. In a camera shutter operating mechanism, the combination of a cylinder, an air compressing piston in said cylinder, a piston rod having a cylindrical portion adjacent the piston, a square portion beyond and a cylindrical portion beyond the square portion, a square opening in the head of said cylinder to guide the piston rod and prevent rotation thereof, a spring for actuating said piston to compress air in the cylinder and to give partial rotation to the piston rod, a valve for permitting gradual escape of compressed air from the cylinder, a lateral projecting pin on the piston rod for maintaining the piston in a retracted position and adapted to pass through a slot in the piston head, and a trip arm connected to and movable with said piston rod to operate the shutter trigger.

1,379,087. MULTIPLE EXPANDER. THOMAS J. DIXON, Madison, Wis. Filed May 22, 1920. Serial No. 383,338. 4 Claims. (Cl. 153—28.)



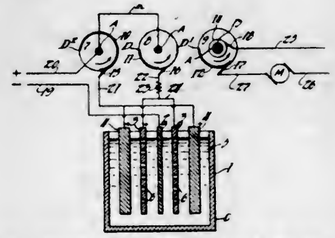
1. A tube expander comprising a shell having an axial bore, said shell being formed of a plurality of diameters to provide "steps," each of said steps having a radial roller receiving pocket, the inner portion of which pocket registers with the bore of the shell, rollers in said pockets, the pockets of the steps of lesser diameter having lips at their outer edges to restrain the rollers, the rollers in the respective pockets alining with each other, whereby the smaller diameter rollers may be inserted via the largest roller pocket into their respective smaller pockets, means for retaining the largest roller in place, and a mandrel for forcing the rollers radially.

1,379,088. STORAGE BATTERY. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J. Filed Sept. 16, 1919. Serial No. 324,058. 12 Claims. (Cl. 204—29.)



1. A battery pile comprising a series of superposed thin conductive sheets separated by thin pieces of flexible insulating material, thin layers of active material respectively disposed between and in engagement with both surfaces of each of the sheets and the adjacent surfaces of the pieces of insulating material, and means for securing all of said elements together whereby the active material is constantly and adjustably held under pressure firmly in substantially uninterrupted surface contact with said sheets, substantially as described.

1,379,089. PRODUCTION OF THIN METALLIC SHEETS OR FOILS. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J. Filed Oct. 4, 1919. Serial No. 328,378. 26 Claims. (Cl. 204—13.)



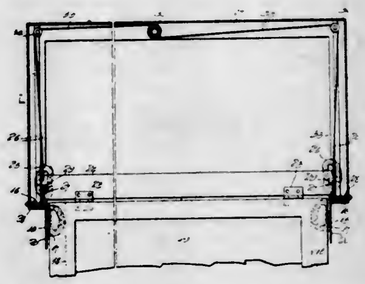
1. The process of electro-plating alternate layers of two different metals in an electrolytic cell comprising a bath containing solutions of a salt of each of such metals, and two anodes respectively formed of such metals and a cathode disposed in said bath, which consists in passing a current through the cell in a path including one of said anodes, the electrolyte and the cathode, which current has a density less than that which will deposit metal of which the other anode is composed, then breaking the circuit of said current and passing a current of comparatively high density through the cell in a path including said other anode, the electrolyte and the cathode, substantially as described.

1,379,090. COMBINATION SHIP-BEVEL, MITER-SQUARE, CALIPERS, AND RULE. LOUIS J. ENGLUND, Oakland, Calif. Filed June 3, 1920. Serial No. 386,300. 3 Claims. (Cl. 33—106.)

1. In a measuring instrument, major sections pivotally united with their flat side faces adjacent each other, said pivoted ends having protecting plates, means passing through the protecting ends of the major sections and provided with means for drawing the two sections tightly and frictionally together, tongues or auxiliary sections pivotally and frictionally connected to the other ends of the major sections and adapted to be disposed in alinement toward each other, whereby the instrument may be used as outside calipers, or disposed toward and intersecting each other, whereby the instrument may be used as inside calipers, the major sections having elongated slots in which the tongues or auxiliary sections are adapted to fold, whereby they may be protected.

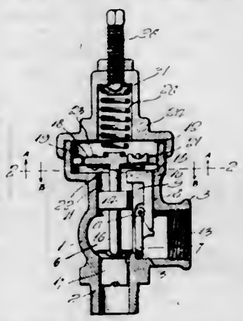


1,379,091. BOOKCASE. JAMES C. FARQUHAR, Zanesville, Ohio. Filed Aug. 30, 1920. Serial No. 406,805. 8 Claims. (Cl. 45—78.)



1. The combination with a case of the character described having a forwardly swinging door; of plates pivoted to said case at opposite ends of said door and slidably supporting the latter to permit it to move into the case when swung to a horizontal position, a projectable and retractable shelf mounted in said case, and means connecting said shelf with said plates for projecting the former when the latter are swung forwardly by said door.

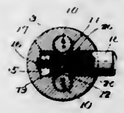
1,379,092. SAFETY-VALVE. FRANK FRACCASCIA and JOHN ERCOLANI, Philadelphia, Pa., assignors of one-third to Adam Cwik, Camden, N. J. Filed June 23, 1920. Serial No. 391,131. 6 Claims. (Cl. 137—53.)



4. A valve comprising a housing having a water chamber provided with an inlet and an outlet, a check valve

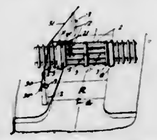
for the inlet, a gate valve for the outlet, a latch for releasably holding the gate against movement to an open position, a piston slidably mounted and having engagement with the check valve and adapted to engage the latch to move the same to an inoperative position, a spring for yieldably holding the piston against sliding movement, and means for regulating the tension of the spring.

1,379,093. DROP-LIGHT ADJUSTER. JOHN FREEBERG, Brooklyn, N. Y. Filed Nov. 17, 1920. Serial No. 424,717. 4 Claims. (Cl. 24—115.)



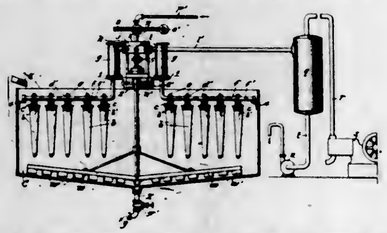
1. A cord adjuster consisting of a block having transverse parallel wire receiving passages therethrough, and a transverse passage at right angles to and between the parallel passages, a plunger in the last-named passage having transverse recesses in its opposite sides, and resilient means normally urging the plunger in position to bind the walls of its recesses against the wires, said plunger being movable to register its recesses with the parallel passages to permit the wires to slide therethrough.

1,379,094. GATE. WILLIAM F. GATEWOOD, Pierce City, Mo., assignor to George L. Middleton, Venice, Calif. Filed Feb. 25, 1920. Serial No. 361,343. 2 Claims. (Cl. 39—36.)



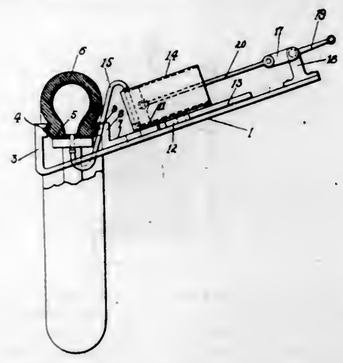
1. The combination with a pair of posts, of a gate hinged to one of the posts, a pair of coöperating latches on the opposite post, a latch lever fulcrumed on the gate one end of which lever is adapted to be engaged by the latches, a horizontally disposed lever fulcrumed on the top of the post to which the gate is hinged, a transversely disposed member mounted for rocking movement on the top of the gate and to which the inner end of the fulcrumed lever is connected, rods depending from the ends of said rocking member, the lower ends of which rods engage beneath the inner end of the latch lever, guides on the gate for said rods, and operating rods connected to the outer ends of the fulcrumed lever and extending substantial distances away from the gate in both directions.

1,379,095. CONTINUOUS THICKENING PROCESS. ALBERT LEGRAND GENTEA, Salt Lake City, Utah, assignor of one-half to General Engineering Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 3, 1919, Serial No. 280,299. Renewed Mar. 22, 1921. Serial No. 454,414. 11 Claims. (Cl. 210—196.)



1. A continuous thickening process consisting, essentially, in submerging a series of hollow filter elements in the mixture being thickened in a common reservoir, continuously removing filtrate from any desired portion of said series of filtering elements, and simultaneously with the removing of said filtrate producing a cleansing action on any other desired portion of said series of filtering elements.

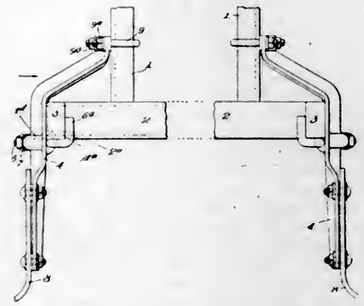
1,379,096. PNEUMATIC-TIRE PUMP. JOHN C. GILBERT, Grafton, Mass. Filed June 9, 1920. Serial No. 387,632. 5 Claims. (Cl. 230—27.)



1. The combination in a pneumatic tire pump, of a piston equipped pumping cylinder, a support for said cylinder, and means for clamping said cylinder support to a wheel at an oblique angle to the plane of the wheel.

4. In a pneumatic tire pump, the combination of a piston equipped cylinder, a support for said cylinder, a fixed clamping jaw for engaging one side of a wheel rim, a movable jaw for engaging the opposite side of the wheel rim, and means for forcing said movable jaw toward the fixed jaw.

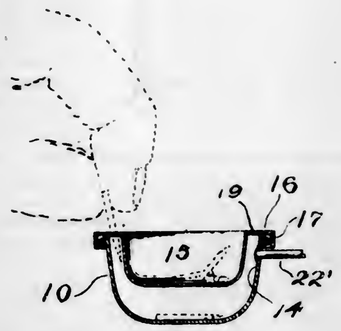
1,379,097. AUTOMOBILE-BUMPER. OSCAR H. GOETZ, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Aug. 13, 1920. Serial No. 403,220. 2 Claims. (Cl. 293—55.)



2. In combination with an automobile frame having longitudinal side bars and a cross bar which joins them and which has at the end and under side an edge sloping up outwardly and a member which crosses the end of the bar above the same, making an upwardly and inwardly opening angle therewith; a longitudinally extending bracket arm secured to the side bar and extending thence past the edge of the cross bar and having an inwardly-projecting lug which abuts and fits substantially against said sloping edge, and an L-hook bolt having its hook engaging said angle and its stem extending through the bracket arm in

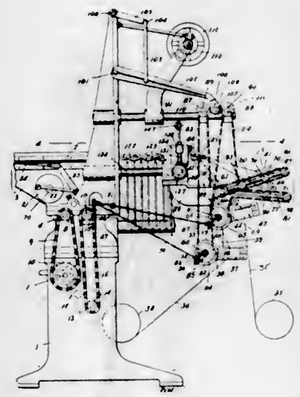
a direction transverse to said slope, and attaching means on the end of the bolt, the transverse bar of the frame being a flanged bar, and a vertical flange thereon having the sloped edge, the lug being rabbeted at its edge abutting on said slope to form a lip which engages at the opposite side of said flange of the cross bar from that past which the bolt stem extends.

1,379,098. CONTAINER FOR NEW AND DISCARDED ARTICLES. PETER R. GONSKY, Chicago, Ill. Filed Mar. 3, 1920. Serial No. 362,949. 1 Claim. (Cl. 206—1.)



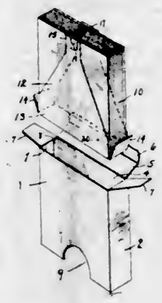
As an improved article of manufacture, a sheet metal cover element for phonograph needle cups, the cover having a peripheral down-turned flange to fit around a cup and having a receptacle part pressed centrally therein, and being formed also with a needle receiving slot therethrough immediately without and adjacent the receptacle part for the purposes described.

1,379,099. METALLIC HEDDLE MECHANISM FOR TEXTILE-MACHINES. EDGAR F. HATHAWAY and CHARLES M. MARS, Dorchester, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed July 10, 1916. Serial No. 108,387. 21 Claims. (Cl. 139—94.)



1. Textile mechanism comprising in combination, thread selecting mechanism, means to support drop wires, pattern controlled releasing means for the drop wires, feeding means for the drop wires, and means to impart continuous movement to said feeding means.

1,379,100. BOX. EDWARD A. HAYNES, Port Huron, Mich. Filed Aug. 27, 1920. Serial No. 406,359. 2 Claims. (Cl. 229—11.)



1. A box consisting of a rectangular cover and a holder, the cover having an open end and a flap hinged at the opposite end of the cover to one of its sides and adapted to close the adjacent end of the cover, said holder comprising an end and two leaves connected thereto between which the contents of the box are placed, said holder and the contents thereof being slidable into said cover, and a metal fastener attached to the end of one of said leaves and comprising a tongue adapted to engage the adjacent edge of one side of the cover and said flap of the cover to secure the holder in position.

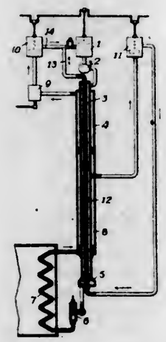
1,379,101. ABDOMINAL SUPPORTER. JOSEPHINE L. HOLT, Portland, Oreg. Filed Oct. 26, 1917. Serial No. 198,684. 1 Claim. (Cl. 2—188.)



As a new article of manufacture an abdomen supporter comprising an abdomen supporting band curved throughout its length and also throughout its width to conform to the shape of the wearer's abdomen, said supporting band being longitudinally yieldable and having its upper and lower edges provided with reinforcing strips also longitudinally yieldable, a transversely extending vertical reinforcing non-elastic strip secured to each end of said supporting band, and extending from top to bottom thereof, a connector shaped to conform to the contour of the back of the wearer and being of substantially twice the width of said supporting band and provided with transversely extending vertical reinforcing non-elastic bands at the respective ends thereof, said ends being of substantially twice the width of the band ends and extending

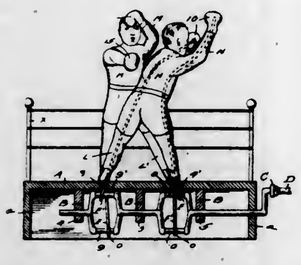
from top to bottom of the connector, a series of lacings connecting said supporting bands to said connector to project above the upper end of the supporting band, and means for detachably connecting the opposite end of the supporting band to said connector.

1,379,102. REFRIGERATING APPARATUS. EBENEZER A. W. JEFFERIES, Worcester, Mass., assignor to Jefferies-Norton Corporation, Worcester, Mass., a Corporation of Delaware. Original application filed Jan. 26, 1915, Serial No. 4,536. Divided and this application filed Jan. 21, 1918. Serial No. 212,862. 9 Claims. (Cl. 62—122.)



1. The combination with means for liquefying a working fluid which is gaseous in its free state, of means for sustaining the pressure on the evaporate from said liquid, means for circulating said evaporate in heat exchanging relation to the gaseous fluid about to undergo liquefaction, and means for thereafter expanding said evaporate, to furnish power.

1,379,103. MECHANICAL TOY. CARL E. JENSEN, Chicago, Ill. Filed Mar. 3, 1920. Serial No. 363,043. 3 Claims. (Cl. 46—40.)



1. A mechanical toy comprising a base, a pair of flexible figures representing boxers arranged on the base and having their feet fixed thereto, a pair of reciprocable rods, extending longitudinally through each of the figures and attached to the hands of the latter, and operating means connected with the lower ends of the rods to reciprocate the same to impart life like movements to the figures.

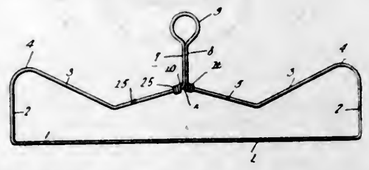
1,379,104. WINDSHIELD ATTACHMENT. FRANK KAMROWSKI, Stevens Point, Wis. Filed Sept. 23, 1920. Serial No. 412,332. 5 Claims. (Cl. 296—84.)

1. A device of the class described comprising a clamp composed of two adjustably connected members, each member including a channel portion to fit the edge of the glass



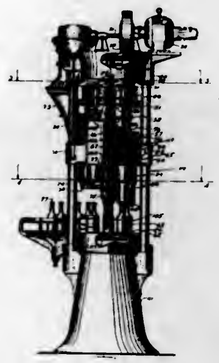
and spaced arms to extend on opposite sides of the glass sections.

1,379,105. COAT-HANGER. HARRIET E. KELLEY, Denver, Colo. Filed Mar. 17, 1921. Serial No. 453,071. 1 Claim. (Cl. 211—13.)



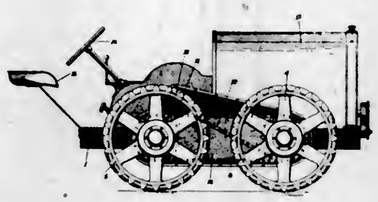
A coat hanger comprising a base having upstanding end members merging into arms which slant toward the base to define prominent projections at the points where the end members join the arms, the arms merging into top members which slant away from the base, one top member being bent upon itself to define an angle and to form first and second suspension members, one top member being lodged in said angle and being engaged around the other top member, the second suspension member being engaged around the first specified top member.

1,379,106. BOTTLE-CROWNING MACHINE. JOSEPH H. KONEFES, Chicago, Ill. Filed Mar. 31, 1919. Serial No. 286,465. 9 Claims. (Cl. 226—84.)



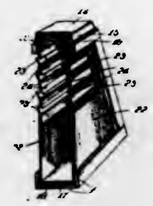
1. In a rotary machine for sealing containers, in combination with suitable means of support, guidance and actuation, means for holding containers; vertically movable sealing heads above the holding means; brackets on the sealing heads horizontally journaled near one end, and carrying horizontal pins on their free ends; rollers on the pins; vertical rods slidably projecting through the brackets, into the sealing heads; locking members, adapted to automatically lock the sealing heads to the vertical rods, on downward movement of the rods, when the free ends of the brackets are allowed to drop; automatic means for pushing the vertical rods a fixed distance downward on passing the sealing station; automatic means for moving the vertical rods upward after the sealing station has been passed; and a circular cam surrounding the sealing heads, so shaped as to support the rollers, and through them the brackets and sealing heads, during the greater part of the circuit of the machine, but to gradually bring the sealing heads to rest on the containers as the sealing station is approached, then at the sealing station not to support the rollers at all, and after the sealing station is passed, to re-engage the rollers and to lift them and, through them, the brackets and sealing heads.

1,379,107. TRACTOR. JOHN MINOR KROYER, Stockton, Calif. Filed Nov. 28, 1919. Serial No. 340,985. 2 Claims. (Cl. 180—70.)



1. A driving means for a four wheel driven tractor including a means for applying the power of the tractor to the front wheels thereof at a constant point relative to the axis of rotation, the front and rear wheels being connected in driving relation with each other.

1,379,108. REFRIGERANT-HOLDING RECEPTACLE. ALBERT P. KRUSE, Chicago, Ill. Filed June 23, 1919. Serial No. 306,232. 1 Claim. (Cl. 62—69.)



A receptacle of the class described, formed of sheet metal and rectangular in cross section having bottom, side and end walls, with the vertical and longitudinal dimensions of the receptacle being greater than the transverse dimensions thereof, said receptacle being provided with a plurality of horizontally disposed air passages adjacent the upper part of the receptacle, a side wall of the receptacle being provided with moisture-deflecting projections disposed lengthwise above said air passages, an outer casing about the bottom, ends and portions of the sides of the receptacle with intervening layers of insulating material therebetween, and a removable top.

1,379,109. ART OF MANUFACTURING PRINTERS' ROLLERS. SOLOMON KUTNER, Chicago, Ill., assignor, by mesne assignments, to Rapid Roller Co., Chicago, Ill., a Corporation of Illinois. Filed July 26, 1919. Serial No. 313,639. 4 Claims. (Cl. 18—29.)



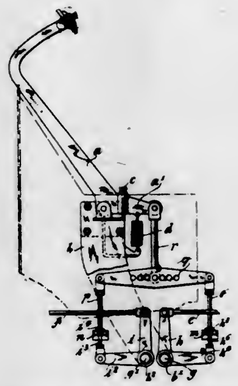
1. The hereindescribed method of making an inking roller for a printing press which consists in preparing a self-vulcanizing compound in semi-liquid form for the production of a roll core, filling a suitable mold with the semi-liquid, allowing sufficient time for the liquid to become solidified by self-vulcanization, removing the solidified core from the mold and covering the outer surface of the core with a non-vulcanized coating of resilient material, as and for the purpose specified.

1,379,110. SAFETY-CATCH. MOAD H. LE MARR, Los Angeles, Calif. Filed July 2, 1919. Serial No. 308,241. 2 Claims. (Cl. 24—162.)



2. In a safety catch for brooch pins and the like a base, a spring hook mounted upon the base adapted to spring outwardly therefrom, a latch member slidably mounted upon the base and in a slot in the hook, means for retaining the latch member from being moved out of the slot in the hook, a lip upon an upper edge of the latch member positioned to operate under the hook, a concavity in the top of the latch member back of the lip, the lip being disposed at such a height relative to the hook that in passing under a pin member seated in the hook it will spring the hook upwardly and snap past the pin member whereby the pin member will become seated in the concavity behind the lip.

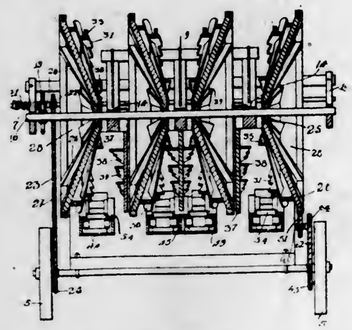
1,379,111. FOUR-WHEEL-BRAKE EQUALIZER. ALEXANDER LUCAND, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 10, 1920. Serial No. 364,809. 4 Claims. (Cl. 188—46.)



1. Brake operating devices for four wheels, comprising brake rods, independent bell crank levers to which the

rods are attached, respectively, a bar for each two bell crank levers having a universal connection therewith, an independent bar for a universal connection with said first named bars adjacent the mid-sections thereof, and means connected pivotally to the last named bar adjacent its mid-section for applying the braking efforts.

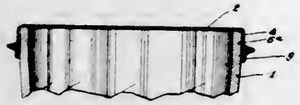
1,379,112. THRESHING-MACHINE. GUSTAV PAUL LUEDKE, Springfield, Ill. Filed Sept. 24, 1919. Serial No. 325,856. 16 Claims. (Cl. 56—126.)



1. A threshing machine including a revoluble threshing element, another threshing element at one side thereof, said elements having their coöperating faces converging toward the axis of rotation of the revoluble element.

2. A threshing machine including a revoluble threshing element, a stationary threshing element coöperating therewith, the coöperating faces of said elements converging toward the axis of rotation of the revoluble element.

1,379,113. ARTICLE AND METHOD FOR HERMETICALLY SEALING PACKING VESSELS. GEORGE W. LUHRMANN, Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 8, 1920. Serial No. 350,240. 10 Claims. (Cl. 215—40.)



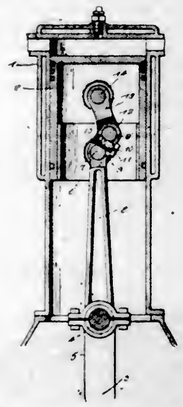
1. As an article of manufacture, a closure for packing vessels including a portion forming a cover for the mouth of the vessel and a portion disposed to encompass the side wall of the vessel, said last mentioned portion having a collapsible concave ductile part, and a sealing charge of cohesive and adhesive plastic material disposed in contact with the concave wall of the ductile part and extrudable therefrom upon re-formation of said ductile part.

1,379,114. INCLOSED FUSE. CLARENCE T. MCDONALD, Chicago, Ill., assignor to Chicago Fuse Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 21, 1918. Serial No. 263,472. 7 Claims. (Cl. 200—135.)



1. An inclosed fuse comprising a casing, a fusible element in the form of a flat strip of fusible metal of uniform width and cross-section throughout its middle portion, so that its current carrying capacity is substantially the same at all points throughout such middle portion, means for mounting the ends of said element in the ends of said casing, and a coating of paint applied to and surrounding a section of said element and spaced inwardly from the ends of said element and from the means for mounting said element to leave exposed the intermediate portions of the element between said coating and said mounting means.

1,379,115. INTERNAL-COMBUSTION ENGINE. MARION MALLORY, Wichita, Kans. Filed June 19, 1919. Serial No. 305,383. 1 Claim. (Cl. 123—197.)



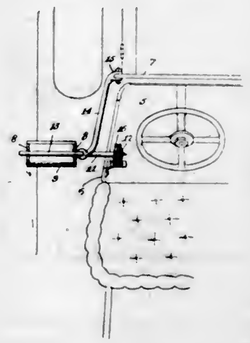
An internal combustion engine comprising a cylinder, a crank shaft at the inner end of said cylinder, a hollow piston within said cylinder having an open end facing said crank shaft, a sleeve slidable within the open end of said piston, a gudgeon pin extending across said sleeve, a connecting rod between said gudgeon pin and said crank shaft, the outer end of said connecting rod having an opening snugly receiving the center of said gudgeon pin, said connecting rod extending outwardly from said gudgeon pin at an obtuse angle to the length of said connecting rod, a second gudgeon pin extending across the hollow piston, a link mounted at its outer end on said second gudgeon pin, the inner end of said link being forked and straddling said extended end of the connecting rod, a third pin extending through the forked end of said link and extended end of the connecting rod, the latter being split between said third pin and said first named pin, and a screw passing through said extended end of the connecting rod between said first and third pins for clamping them tightly in place.

1,379,116. PIN-CALIPER. JOHN D. MALLOY, Hartford, Conn. Filed June 17, 1920. Serial No. 389,571. 6 Claims. (Cl. 33—163.)



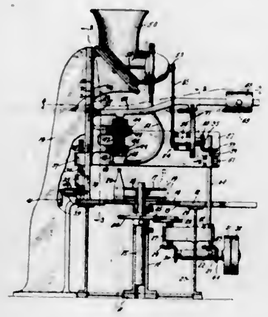
1. A caliper comprising a beam formed of a single length of wire bent to U shape, a head with a calipering pin and transverse openings fitted upon and secured to the free ends of the two wires of the beam, a head with a calipering pin and transverse openings fitted upon and slidable along the two wires of the beam, separable means in the head for clamping said latter head to the beam wires, an adjusting member with transverse openings fitted and slidable along the beam wires, means for clamping the adjusting member to the beam wires, a thumb nut carried by the adjusting member, and a feed screw extending from the slidable head through the adjusting member and nut.

1,379,117. VEHICLE DIRECTION-SIGNAL. GUS W. MARKOS, Columbus, Ohio. Filed Aug. 23, 1920. Serial No. 405,305. 4 Claims. (Cl. 116—47.)



1. A vehicle direction signal, comprising a signal box having signals on its respective sides, an open frame for supporting said signal box and in which it is mounted to rotate, supporting arms for said frame having short ends and fastening means for attaching them to the frame of the windshield and formed with a long arm arranged substantially at right-angle to said short ends and adapted to extend backwardly therefrom to support the signal box and its frame at a point outside of and adjacent the seat of the car, and operating means for rotating said signal box.

1,379,118. BOTTLE-CROWNING MACHINE. MELCHOR MARSA, New York, N. Y., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,522. 3 Claims. (Cl. 226—84.)



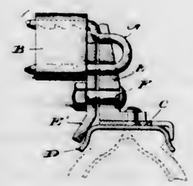
1. In a machine for applying metallic closures to fragile receptacles, the combination with a receptacle support, of a closure applying device reciprocably mounted in relation thereto, a weighted mechanism in continuous engagement with said applying device, a spring for moving said closure applying device away from said support, and means for intermittently opposing the gravitation of said weighted mechanism, thereby allowing said spring to move said applying device away from said support and then permitting said weighted mechanism to act on said applying device by its weight, whereby said applying device is caused to move toward said support.

1,379,119. WELL-PLUG. GEORGE W. MAUZEY, near Edgerton, Mo. Filed Oct. 30, 1920. Serial No. 420,748. 1 Claim. (Cl. 166—13.)



A fragile cast metal plug body of cylindrical form, said body being adapted to receive and to hold a filling substance therein for adding weight to said body; a plurality of legs formed integrally with said body on the marginal portion of its bottom, said legs being inclined downward and toward each other for holding a plastic substance therebetween; a packing on the top of said plug body; and securing means whereby said packing is held in place.

1,379,120. SHACKLE FOR PADLOCKS. GEORGE M. MILLER, Lancaster, Pa., assignor, by mesne assignments, to Fraim-Slaymaker Hardware Company, Inc., Lancaster, Pa., a Corporation of Pennsylvania. Filed July 15, 1920. Serial No. 396,425. 3 Claims. (Cl. 70—108.)



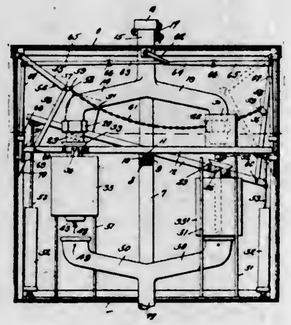
2. In combination, a lock case having openings therethrough and means therein for automatic locking engagement with a notched arm or arms of a shackle inserted in said openings, and a shackle having one of its arms bent abruptly outwardly away from the other arm substantially at right angles thereto at a point intermediate its length and then forwardly, so as to bring it out of the line of its head portion but substantially parallel therewith and with the other arm, the latter being straight, whereby the two arms are made to extend near together in substantially parallel planes from the head portion thereof to said intermediate point and wide apart from said point to their free ends, substantially as and for the purpose described.

1,379,121. CAR-WHEEL. EUGENE G. MITCHELL, Red Level, Ala. Filed Oct. 28, 1920. Serial No. 420,173. 4 Claims. (Cl. 295—33.)



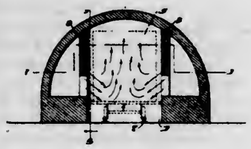
1. A car wheel comprising a hub, a rim, a pair of guard flanges formed on the rim, and side wheels arranged on opposite sides of the first mentioned wheel.

1,379,122. FLUID-MEASURING DEVICE. JULIUS CLINTON MOORE, Raleigh, N. C. Filed Dec. 1, 1919. Serial No. 341,597. 5 Claims. (Cl. 249—27.)



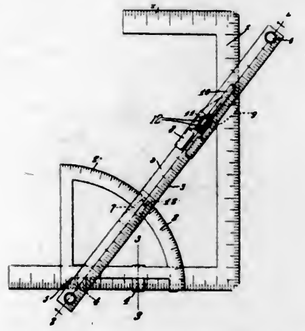
1. In a liquid dispensing apparatus, a casing, discharge pipes and feed pipes within the casing, a pair of pivoted arms within the casing and operating between the pipes, a container supported on one end of each arm, a funnel carried by each of the arms for directing fluid to the containers, means for guiding the containers in their movements, means actuated by the containers for discharging fluid into the containers, means for automatically discharging fluid from the containers, and means carried by the respective arms for overbalancing the empty containers to cause the same to move upwardly.

1,379,123. BAFFLE FOR COMBUSTION-CHAMBERS OF TUNNEL-KILNS. JOHN B. OWENS, Metuchen, N. J. Filed May 28, 1918. Serial No. 237,166. 5 Claims. (Cl. 25—142.)



1. A tunnel kiln having a combustion chamber at its side, a baffle for the upper part of the combustion chamber where the latter faces the interior of the tunnel, and piers supporting said baffle, said piers being separated by discharge ports or passages through which the heat and products of combustion pass from the combustion chamber to the interior of the tunnel.

1,379,124. DRAWING INSTRUMENT. HORACE L. READ, Quincy, W. Va.; Anna L. Read administratrix of said Horace L. Read, deceased. Filed Feb. 8, 1919. Serial No. 275,831. 1 Claim. (Cl. 33—97.)



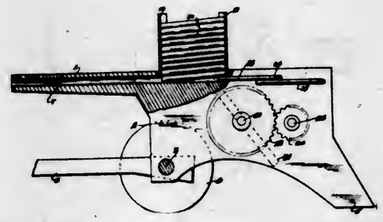
In a drawing instrument the combination with a graduated square, of a graduated arc slidably mounted on one of the arms of the square, an indicator carried thereby for designating any one of the graduations upon said arm, a graduated member movably mounted on the arc and extending across one face of the square, a guide slidably mounted on said graduated member, a lip projecting from the guide and lapping the other face of the square, a cam lever carried by the guide and frictionally engaging the graduated member to bind the lip against the square and to hold the graduated member against movement relative to the square and to hold the guide against movement on the graduated member, means carried by the graduated member for embracing the arc to hold the graduated member and arc properly assembled, and adjusting knobs extending from the end portions of the graduated member.

1,379,125. HANDLE ATTACHMENT FOR SCREW-DRIVERS. PETER REINHALTER, Wilkes-Barre, Pa., assignor to Peter Reinhalter Co., Wilkes-Barre, Pa. Filed Sept. 15, 1920. Serial No. 410,375. 2 Claims. (Cl. 279—102.)



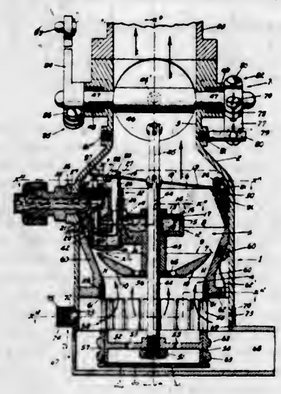
2. In a tool, a handle having an opening in one end thereof, a tubular member positioned within the handle, said tubular member having a lateral opening, a shank having a tang at one end thereof, said tang adapted to be cammed through the opening in the tubular member, where the same embeds itself within the handle portion, and said tang adapted to move a portion of the tubular member laterally.

1,379,126. TOY MACHINE-GUN. SEVER C. REPPE, Los Angeles, Calif. Filed Sept. 3, 1920. Serial No. 407,981. 2 Claims. (Cl. 124—13.)



1. A toy comprising a block having a bore at one end and a slot in said block communicating with said bore, a spring secured at one end in said block and extending outwardly from one side of said block with the opposite end of the spring received in said slot and projecting through said block, and a shaft journaled in said block and adapted to engage the projecting end of said spring so as to alternately retract and release the same.

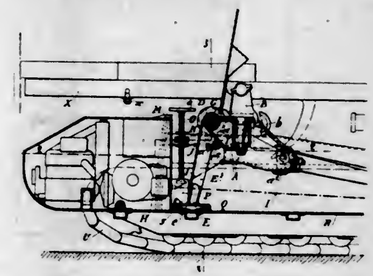
1,379,127. CARBURETER. FRANK J. RICHARDS, Los Angeles, Calif. Filed May 31, 1916. Serial No. 100,988. 1 Claim. (Cl. 261—51.)



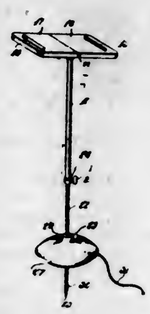
In a carbureter, the combination with a mixing chamber of a plate hinged to one side of the chamber and adapted to allow the mixture to escape from said chamber, and adapted to be operated by said mixture; a valve to admit liquid fuel to said chamber; a tubular guide and a yoke having a stem working in the tubular guide and operable by the plate; said yoke being also provided with a finger extending into the valve seat to lift the valve when the plate is lifted, and a spring to normally seat the valve.

1,379,128. COMBINED FIELD-GUN AND SELF-PROPELLING VEHICLE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 397,952. 13 Claims. (Cl. 89—40.)

1. The combination of a transport vehicle, a saddle carrying a gun, means detachably supporting the saddle on the chassis of the vehicle, rails extending longitudinally of the chassis and movably mounted thereon, and means for raising the forward ends of the rails to engage the saddle to lift the same from the chassis, said rails forming ways for the movement thereon of the lifted saddle and its load to the rear of the vehicle.



1,379,129. FOLDING AND EXTENSION STOOL OR CHAIR. RICHARD SEJNOHA, Wolsey, S. D. Filed July 3, 1920. Serial No. 393,910. 1 Claim. (Cl. 155—135.)

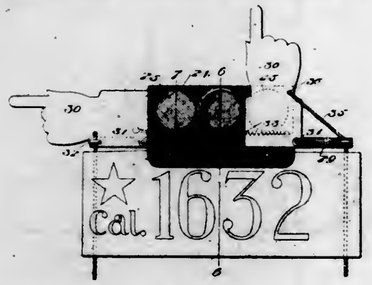


In an article of the class described, a seat having two sections hingedly connected, a disk screwed to the upper end of a sleeve, bolts formed with a loop and engaging said hinges and said disk, said seat sections being horizontally supported flatwise on said disk, a rod within said sleeve, said rod extending outwardly and downwardly thereof, means to hold the sleeve firmly on said rod, a disk slidably mounted on the exteriorly projecting part of said rod, means whereby the second-named disk may be securely fastened to said rod, said rod being pointed and formed with a laterally projecting lug to prevent said disk from sliding off the rod.

1,379,130. DIRECTION-INDICATING APPARATUS FOR AUTOMOBILES. LEON WILLIAM SIMMONS, Los Angeles, Calif. Filed June 18, 1919. Serial No. 304,993. 4 Claims. (Cl. 116—45.)

1. In apparatus of the character described, casings secured to the ends of an automobile, each casing having a flat face provided with a center opening and outer openings arranged upon the opposite sides of the inner opening, a collar surrounding the center opening and secured to the flat face and projecting outwardly beyond the same, a lens in the collar, sections of glass spanning the outer openings, a supporting element secured to the casing and projecting beyond the ends thereof, indicating elements pivotally connected with the supporting element and normally adapted to assume substantially vertical positions to cover the outer openings, a shock absorbing

band carried by the collar to engage with the indicating elements, a spring connecting the indicating elements,



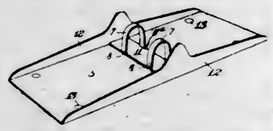
combined stops and guides carried by the supporting element and arranged in the path of travel of the indicating elements, and means for operating the indicating elements.

1,379,131. WIRE CHAIN. FRIEND W. SMITH, Bridgeport, Conn., assignor to American Chain Company, a Corporation of New York. Filed Nov. 7, 1919. Serial No. 336,440. 6 Claims. (Cl. 59—92.)



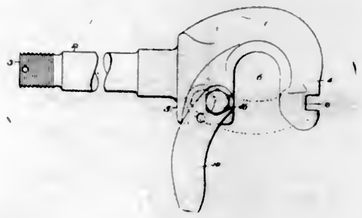
6. A chain link formed from a single section of wire bent centrally on itself to form a loop, the side strand of said loop being continued to form eye portions and thence continuing each to the opposite side of the link and anchored to said opposite side.

1,379,132. PAD-SUPPORTING STAND. GEORGE W. SMITH, Chicago, Ill. Filed May 28, 1918. Serial No. 237,128. 1 Claim. (Cl. 40—120.)



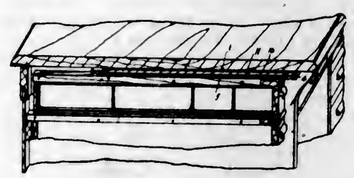
A device of the character described comprising a base plate having a transverse recess at the opposite longitudinal edges of which are inturned lugs, a pair of laterally spaced looped resilient strips extending upwardly from the base and detachably connected thereto at their free ends, said ends extending into the aforesaid recess to seat against the opposite longitudinal edges thereof, and having apertures into which the aforesaid lugs extend, and a spreader plate seating on the base plate over the recess and positioned between the apertured ends of the looped strips for holdign the same spread and impaled on the lugs.

1,379,133. COUPLING. RUSSELL W. SPEECE, Hondo, Tex. Filed Apr. 7, 1921. Serial No. 459,445. 7 Claims. (Cl. 213—67.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



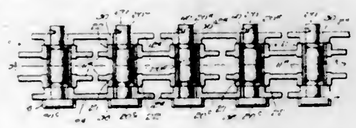
1. A coupling comprising a head formed with a pair of opposing members spaced to produce a ring-receiving recess, a locking element pivoted to one member and operable to a position embracing the other, and co-acting means between said members and locking plate to permit longitudinal actuation of the latter and establish an interlocked relation between said plate and embraced member.

1,379,134. DESK. CALVIN B. STEDDOM, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 322,736. 1 Claim. (Cl. 45—6.)



The combination with a desk of a shelf arranged to slide horizontally beneath the top of the desk, said shelf comprising a frame that is composed of side rails and a front rail, there being grooves formed in the lower portions of the inner faces of said front and side rails, which grooves occupy the same horizontal plane, a panel having its front and side edges seated in said grooves, there being channels formed in the inner faces of the side rails of the frame above said panel, a glass panel having its side edges mounted for sliding movement in said channels, said glass panel being spaced apart from the first mentioned panel, the top surface of said glass panel occupying the same horizontal plane with the top surfaces of the rails of the frame and there being a finger receiving recess formed in the inner upper edge of said frame.

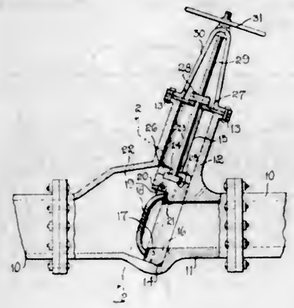
1,379,135. GRATE-CHAIN. LOYD R. STOWE, Maplewood, Mo. Filed May 24, 1919. Serial No. 299,661. 18 Claims. (Cl. 110—40.)



1. The combination in a grate chain, of a series of links, and means for connecting said links to permit relative adjustment thereof.

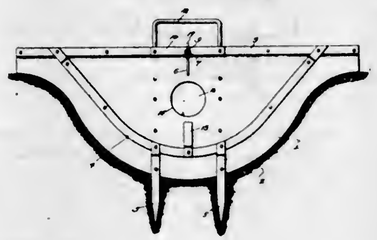
9. The combination in a grate chain, of a series of inner links, two series of outer links arranged on opposite sides of and overlapping said inner links, bushings engaging said inner links, and pins fixed with respect to said outer links and engaging said bushings.

1,379,136. VALVE. JOHN H. SUMMERS and EDWARD S. KIRK, Taft, Calif. Substitute for application Serial No. 290,607, filed Apr. 16, 1919. This application filed Mar. 28, 1921. Serial No. 456,225. 3 Claims. (Cl. 251—51.)



1. A valve casing having a longitudinally extending bore, and a bonnet rectangular in cross section extending from the casing, a valve body having a sliding fit in the bonnet and movable into or out of said bonnet and into or out of a position across the bore of the valve casing and having an opening alining with the bore, a check valve mounted upon the body, and means extending through said bonnet for manually shifting the body into or out of operative position, said means including a screw-threaded shaft operatively engaging the bonnet and the valve body.

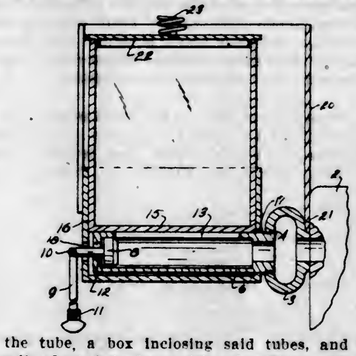
1,379,137. DAM OR CHECK. CLARENCE L. SYES and SAMUEL MITCHELL, Ault, Colo. Filed July 17, 1920. Serial No. 396,973. 3 Claims. (Cl. 61—29.)



1. A head gate comprising a body plate having an opening, a gate for said opening, a reinforcing strip extending along the upper edge portion of said body plate, a strap arranged at one side of said reinforcing strip, a bail having its ends flattened and arranged between said reinforcing strip and said strap, rivets extending through and connecting said plate, said reinforcing strip, the ends of said bail, and said strap, a loop connected to said strap, and an anchoring link connected to said loop.

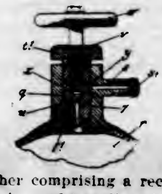
1,379,138. GAS-ENGINE STOVE. JOHN O. TERRELL, San Bernardino, Calif. Filed Jan. 26, 1920. Serial No. 354,197. 2 Claims. (Cl. 126—20.)

1. The combination with a gas engine and its manifold, of a plurality of tubes having their inner ends seated in said manifold, the outer ends of said tubes being provided with threaded openings, there being longitudinally disposed slots formed in said tubes, a piston arranged for movement within each tube, a piston rod connected to each piston, the outer portion of which piston rod is threaded for engagement with the threaded opening in the outer end



of the tube, a box inclosing said tubes, and a cooking utensil adapted to be positioned within said box above said tubes.

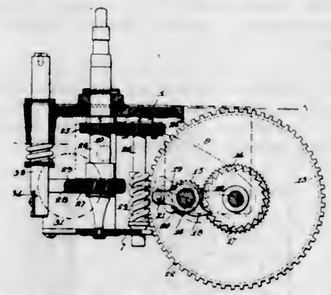
1,379,139. FIRE-EXTINGUISHING DEVICE. CLAUDE TESTE, Jr., Lyon, France. Filed Jan. 7, 1918. Serial No. 210,678. 2 Claims. (Cl. 169—31.)



1. A fire extinguisher comprising a receptacle having a head provided with a bore of two diameters, a screw plug valve in said head having an axial bore of two diameters, a screw needle valve arranged in the larger bore in the plug valve, and a lateral duct in the head through which the compressed air is admitted and the extinguishing liquid is expelled when the apparatus is in use, the screw plug valve being provided with lateral conduits communicating with said duct.

2. A fire extinguisher as in claim 1 wherein the screw needle valve comprises a point adapted to rotate independently of the main rod of the valve.

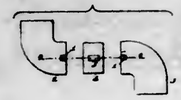
1,379,140. SPRING-MOTOR. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed June 17, 1918. Serial No. 240,368. 8 Claims. (Cl. 185—37.)



8. A spring motor comprising a frame having depending lugs, a spring shaft, a spring barrel on said shaft, a winding shaft, the said shafts being geared together, a ratchet on the spring shaft, a pawl carried by the winding shaft and adapted to engage the ratchet, a worm wheel on the spring shaft, a counter shaft carrying a worm adapted to engage the worm wheel on the spring shaft, a

spur gear on said counter shaft, a turn-table shaft having a spur gear and a worm wheel, said spur gear meshing with the spur gear on the counter shaft, a governor shaft, a worm on said shaft engaging the worm wheel on the turn-table shaft, a governor and a governor disk, an adjustable stop for regulating the speed of the motor, and a brake for arresting the unwinding of the spring.

1,379,141. TUBULAR JOINT. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed May 5, 1919. Serial No. 294,707. 4 Claims. (Cl. 285—197.)



1. A tubular joint, comprising two tubular members having notches in their opposing ends, and a section of tubing of slightly less diameter than said tubular members and adapted to be fitted in the opposed ends of said notched members and provided with a projection adapted to enter and engage the sides and ends of the notches in said members, and serving to limit the movement of and position said tubular members upon said section of tubing in assembling the parts.

1,379,142. CAP. LEON WALLACE, New York, N. Y. Filed Jan. 3, 1920. Serial No. 349,160. 5 Claims. (Cl. 2—107.)

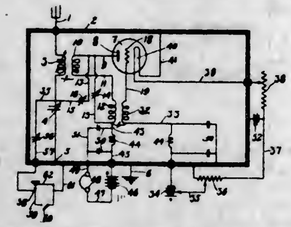


1. A cap having a flap adapted to cover the ears of the wearer, and a valance attached to the free edge of the flap and forming a depending skirt portion, said valance being made of a material having greater elasticity than the material of the flap.

1,379,143. INSULATING MATERIAL. JOHN J. WANGENSTEIN and HAROLD FEGRAEUS, Duluth, Minn. Filed Sept. 11, 1920. Serial No. 409,678. 3 Claims. (Cl. 106—18.)

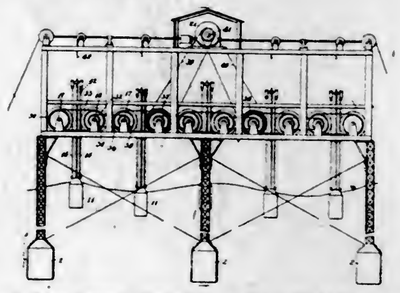
1. An insulating material composed wholly of peat and moss.

1,379,144. CUT-IN SYSTEM OF RADIOTELEGRAPHY. PAUL WARE, New York, N. Y., assignor to Ware Radio, Inc., a Corporation of Delaware. Filed Feb. 8, 1918. Serial No. 215,996. 17 Claims. (Cl. 250—9.)



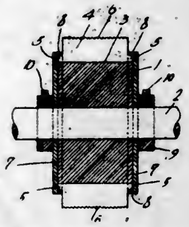
8. In a space radiotelegraph system, two stations each having means for producing, radiating and receiving oscillations of such difference in frequency as to simultaneously produce an audible beat note at each station, and a key at each station for varying both beat notes.

1,379,145. WAVE-MOTOR. AARON W. H. WARSCHAVSKY, Brooklyn, N. Y. Filed Dec. 13, 1918, Serial No. 266,546. Renewed Aug. 14, 1920. Serial No. 403,510. 6 Claims. (Cl. 253—10.)



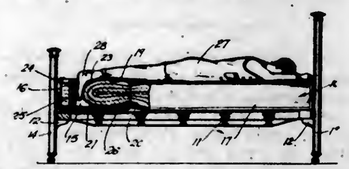
1. A wave motor comprising: a supporting structure including pairs of spaced horizontally disposed beams, guides in vertical alinement carried by said beams, a vertically reciprocating floating member responsive to wave motion, slide members secured thereto and extending upwardly through said guides, a power translating device, and means for utilizing the action of the floating member to actuate the power translating device.

1,379,146. ROTARY RASP. WALTER P. WEST, Napa, and JAY HARLEY SMITH, San Francisco, Calif. Filed Aug. 7, 1919. Serial No. 315,984. 1 Claim. (Cl. 29—105.)



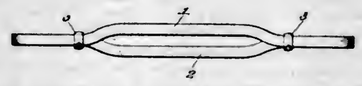
A rotary rasp for rubber tires including a cylindrical head having longitudinal grooves in its periphery, radially extending blades seated in the grooves and having toothed outer edges, ears extending from the ends of each blade at the inner edge of the blade, the outer ends of the ears being flush with the ends of the head, one edge of each ear being flush with the periphery of the head, disks detachably connected to the opposed ends or faces of the head, and inwardly extending annular flanges upon the disks and engaging the periphery of the head and those edges of the ears flush with the periphery, the outer ends of the ears abutting against the disks and the end edges of the blades abutting against the flanges.

1,379,147. MATTRESS. WILLIAM-HENRY WHITE, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 415,984. 3 Claims. (Cl. 5—13.)



3. A mattress transversely recessed intermediate its longitudinal sides and adjacent one end, the side of the recess nearest the end being reinforced and the opposite side being soft and rounded, and a flap foldable over the recess.

1,379,148. AUTOMOBILE-BUMPER. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 2, 1920. Serial No. 414,299. 1 Claim. (Cl. 293—55.)



An automobile bumper comprising an impact member consisting of a flat bar having its ends reflexed rearward and inward to form inwardly open resilient loops, and its middle portion deflected edgewise to offset the said middle portion vertically from the end portions, and a supplemental bar having the middle portion of its length similarly offset edgewise from the end portions, said supplemental bar having its end portions lapped behind the portions of the main bar situated just beyond the opposite ends of the deflected portion of said main bar; supporting arms for the impact member having their forward ends bent to project transversely and present vertical faces directly forward, and clamps encompassing said transversely projecting end portions and the lapped ends of the supporting bar, on the main bar of the impact member.

1,379,149. PROCESS OF MAKING RUBBER-LIKE MATERIAL AND RESULTING PRODUCT. JOHN C. WICHMANN, Los Angeles, Calif. Filed Sept. 3, 1920. Serial No. 407,893. 4 Claims. (Cl. 106—23.)

1. A process of making a rubber-like substance, comprising macerating the fleshy parts of members of the cactus family, heating the same, extracting the juice therefrom, adding a catalyzer containing a mineral acid radical, concentrating the juice, adding a solution of Pará rubber, linseed oil, and a mixture of asphaltum and sulfur to the concentrated juice, boiling the same, and drying and oxidizing the resulting mass.

1,379,150. PROCESS OF MAKING RUBBER-LIKE MATERIAL. JOHN C. WICHMANN, Los Angeles, Calif., assignor of one-half to Louis J. Maescher, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,601. 3 Claims. (Cl. 106—23.)

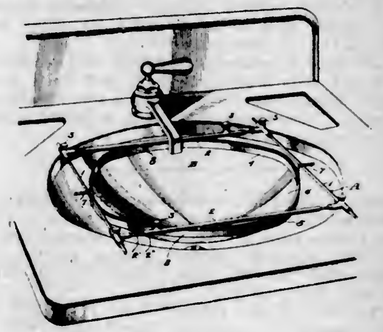
1. A process of making a rubber-like substance, comprising macerating the fleshy parts of the yucca plant, heating the same above the boiling point of water, extracting the juice therefrom, adding a catalyzer consisting of a mixture of sodium tungstate, concentrating the juice, adding a solution of Pará rubber, linseed oil, and a molten solution of asphaltum and sulfur to the concentrated juice, boiling the same under agitation, and drying and oxidizing the resulting mass.

1,379,151. NON-SKID DEVICE. HARRY S. WILLIAMS, La Mesa, Calif., assignor of one-half to Otto A. Keller, San Diego, Calif., and one-fourth to Elgin O. Kotchmann, Mason, Tex. Filed Dec. 5, 1919. Serial No. 342,771. 2 Claims. (Cl. 152—14.)



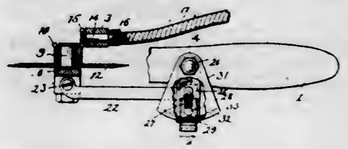
2. The combination with a vehicle wheel and tire of anti-skid chains connected with one side of the wheel and extending transversely of the tire and releasably connected with the opposite side of the wheel when in an operative position, the chains extending radially of the wheel toward the hub thereof when in an inoperative position, and an expansible ring for engagement by the inner end portions of the chains when extending radially of the wheel in the inoperative position.

1,379,152. SANITARY BASIN FOR LAVATORIES. CHARLES H. WINDSOR, Palmyra, N. J. Filed Aug. 25, 1917. Serial No. 188,146. 8 Claims. (Cl. 4—1.)



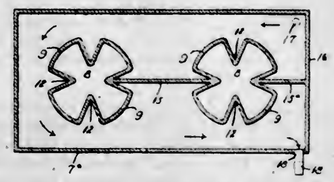
1. A sanitary basin for use with the usual lavatory comprising a supporting frame bodily movable to and from a position to rest on the lavatory, a basin member pivotally supported by and in non-tilting engagement with the frame, said basin being shiftable on the frame from its pivotal and non-tilting position to permit its contents to be emptied into the lavatory without removing it from the frame or the frame from the lavatory.

1,379,153. SKINNING-TOOL. CHARLES W. YOUNG, Cleveland, Ohio. Filed Mar. 6, 1920. Serial No. 363,860. 6 Claims. (Cl. 17—13.)



1. A skinning tool comprising a handle having an extension, a forked bracket pivotally mounted upon said extension, a cutting disk mounted between the forks of said bracket and means for driving the cutting disk.

1,379,154. WATER-HEATING TOP FOR GAS-STOVES. HARRY YOUNG, Philadelphia, Pa. Filed Mar. 23, 1920. Serial No. 368,060. 2 Claims. (Cl. 126—53.)



1. A stove top consisting of a water jacket including top and bottom spaced apart and having continuous portions extending therebetween and providing burner holes spaced apart, said continuous portions having hollow extensions integral with said top and bottom and communi-

cating directly with the water space between said top and bottom; a partition for said space extending between said continuous portions and between one of said portions and a side of said jacket, the opposite side of said jacket being spaced from the other of said portions to provide a water passage; a water inlet communicating with said space at one side of said partition; and a water outlet communicating with said space at the opposite side of said partition; substantially as described.

1,379,155. METHOD OF PREPARING GRAPHITIZED VULCANIZED FIBER. EDWARD GOODRICH ACHESON, Jr., Niagara Falls, N. Y. Filed Dec. 14, 1920. Serial No. 430,711. 7 Claims. (Cl. 8—20.)

3. A method of preparing graphitized fiber or vulcanite, which consists in beating the fibers with finely divided graphite, forming the mixture into a web, treating the web with a gelatinizing agent, and afterward washing and seasoning the web.

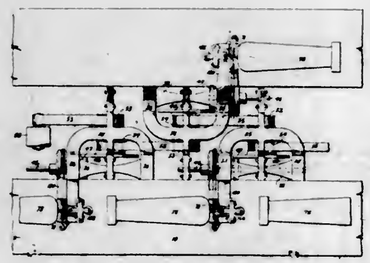
1,379,156. METHOD OF PREPARING GRAPHITIZED VULCANIZED FIBER. EDWARD GOODRICH ACHESON, Jr., Niagara Falls, N. Y. Original application filed Dec. 14, 1920, Serial No. 430,711. Divided and this application filed Jan. 31, 1921. Serial No. 441,166. 4 Claims. (Cl. 8—20.)

1. The step in the preparation of graphitized fiber, which consists in treating a formed paper web with graphite in colloidal form.

1,379,157. ART OF TREATING CALCIUM CARBONATE. WILLIAM H. ALTON, New York, N. Y. Filed May 8, 1920. Serial No. 379,823. 13 Claims. (Cl. 23—13.)

1. The herein described method which consists in suddenly subjecting calcium carbonate to an intense heat to effect a disruption of the same into minute particles, and subjecting the particles thus formed to heat for a sufficient time to effect a change of a portion of the mass from calcium carbonate to calcium oxid leaving the remainder of the mass in the form of calcium carbonate.

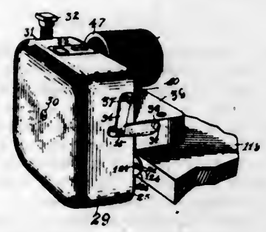
1,379,158. COMBINATION TABLE AND SHAFT SUPPORT. MEYER AXILROD, Reading, Pa. Filed Feb. 28, 1920. Serial No. 362,099. 18 Claims. (Cl. 45—27.)



1. In a combination table and shaft support, the combination of legs, a top rail having adjustable connection with said legs, said rail being provided with a pair of arms projecting laterally in opposite directions from points intermediate its ends, the outer end portions of said arms extending outwardly toward one edge of the table and in spaced relation to the adjacent portion of said rail, and a shaft support having connection with said arms.

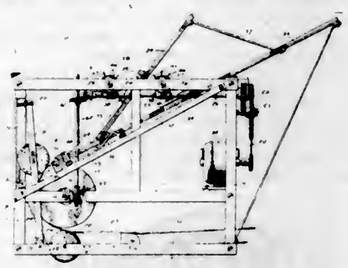
16. In combination, a plurality of combination table and shaft supports, the said supports being arranged at intervals in substantially parallel relation with respect to each other, and each support comprising a top rail having a bracket depending from an intermediate portion thereof, said bracket being provided with a shaft bearing, the axis of which extends transversely of the said table and each top rail being also provided with a pair of arms projecting laterally in opposite directions from an intermediate portion thereof, the outer ends of said arms extending outwardly and in substantially parallel relation to the said top rail, a shaft supporting member having adjustable connection with the outer ends of said arms, said member having depending projections provided at their lower ends with shaft bearings extending in a direction substantially at right angles to the first named bearing, a shaft revolubly supported in the first named bearing and having a friction plate secured thereto, a shaft revolubly supported in the second named bearings and provided with a friction disk the periphery of which is adapted to engage the face of said friction plate, and means for connecting the successive shafts mounted in the first named brackets whereby when one of said shafts is driven the others may likewise be driven for driving the respective friction disks, substantially as described.

1,379,159. MEASURING-MACHINE. CHARLES ERNEST BALDWIN, Jamestown, N. Y., assignor to Registrometer Company, Buffalo, N. Y. Filed July 19, 1918, Serial No. 245,662. Renewed Apr. 12, 1921. Serial No. 460,656. 19 Claims. (Cl. 33—129.)



1. A measuring machine comprising registering mechanism, measuring actuating means, means so connecting said actuating means to said registering mechanism as to register a measurement thereon, and means for temporarily disconnecting said actuating means from said registering mechanism to prevent derangement thereof when not in use.

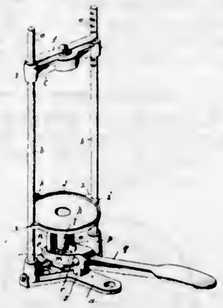
1,379,160. METHOD AND APPARATUS FOR SPACING TILES AND PASTING SAME TO PAPER. BRADLEY L. BENSON, San Francisco, Calif. Filed May 24, 1920. Serial No. 383,978. 19 Claims. (Cl. 41—1.)



7. The method of pasting tiles in spaced relation to each other to a binder, such as paper, consisting of passing the tiles to be pasted over an arcuate surface in contacting relation, in such a manner that the surfaces to be pasted will be spaced apart, and pasting the said tiles to a sheet while on said arcuate surface.

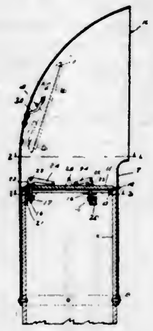
8. A mechanism for assembling loose tiles and the like in patterns comprising a main chute, provided with means for passing thereover in processions a plurality of courses of tile of one color, means for momentarily interrupting said processions, and means for dropping into said processions tiles of different colors during said momentary interruption.

1,379,161. BOTTLE-CAPPING MACHINE. HERBERT L. BROWN, Petersburg, Va. Filed Sept. 17, 1920. Serial No. 410,829. 2 Claims. (Cl. 226—84.)



2. In a bottle-capping machine, a base, upstanding rods on the base, a cross-head carried at the upper ends of the rods, a bottle-support slidably engaging the rods and provided with a pair of depending wings on its under side, a central guide-post for said bottle-rest, and a lever pivotally mounted on the base and having a forked inner end engaging under the lower edges of said wings.

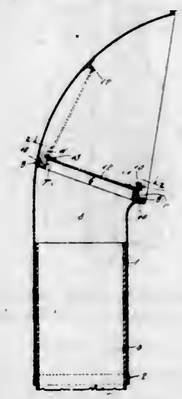
1,379,162. SHIP'S VENTILATOR-COVER. THEOPHILUS M. BROWN, Seattle, Wash., assignor of one-third to Howell P. Parker and one-third to Robert J. Howland, Seattle, Wash. Filed Jan. 19, 1920. Serial No. 352,611. 5 Claims. (Cl. 114—211.)



1. The combination with a ship's ventilator pipe, of a cover arranged to rest upon the top end of said ventilator pipe, brackets within said ventilator pipe, bolts projecting downwardly through said cover and provided with means for engaging said brackets, and cam levers for exerting a tension on said bolts.

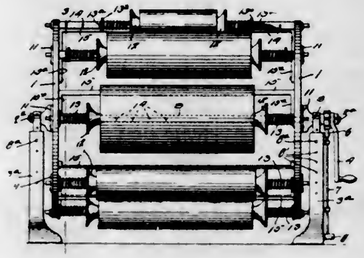
1,379,163. SHIP'S VENTILATING-COWL. THEOPHILUS M. BROWN, Seattle, Wash. Filed Mar. 17, 1920. Serial No. 366,519. 1 Claim. (Cl. 114—212.)

In a ship's ventilator pipe, a collar having a flange riveted to the interior of the pipe, and a second flange inset from said first-named flange forming a circular trough, the forward portion of said collar being set in the throat of said pipe approximately level with the lower edge of the pipe opening, the rear edge of said collar being



set above said forward edge to provide drainage for said trough, a cover plate hingedly connected at its rim to said collar, and latch devices to secure said cover plate in open and in closed positions.

1,379,164. DISPLAY-RACK AND HOLDING MEANS. ELBERN ELMER BULLIS, Rouse Point, N. Y. Filed Feb. 26, 1920. Serial No. 361,522. 5 Claims. (Cl. 211—18.)



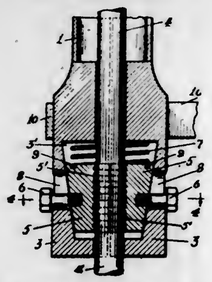
1. A dispensing device comprising spaced disks having registering perforations adjacent their peripheries, bars extending between the disks and mounted in the perforations, conical holders slidable upon the bars, springs positioned to move the conical keepers toward each other and means to vary the position and tensions of the springs.

5. A dispensing device comprising spaced disks having apertures formed in their peripheries, bars inserted in the apertures, keepers pivoted to the disks and adapted to retain the bars in engagement, conical holders slidable upon the bars with their apexes directed toward each other and yielding members adjustably slidable in the rear of said conical holders.

1,379,165. SUCKER-ROD ATTACHMENT TO PREVENT SANDING-UP OF WELL-PUMPS. ROBERT LEE BURNS and FRED FREAMOND WINGER, Taft, Calif. Filed July 12, 1920. Serial No. 395,568. 3 Claims. (Cl. 287—58.)

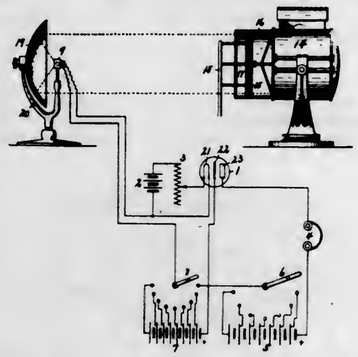
1. A sucker-rod attachment for the described purpose comprising a stock adapted for suspension from a source of reciprocative motion, said stock having a split foot; a smooth rod fitted through said foot for relative linear movement therein and adapted for connection with the sucker-rod; a wedge slip housed within said foot and

adapted to positively engage the smooth rod on the upward stroke of the stock and to slip it in the reverse



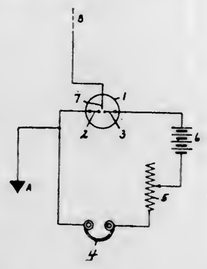
direction; and a regulatable clamp embracing said foot whereby the smooth rod may be adjusted therein.

1,379,166. RADIANT-ENERGY SIGNALING SYSTEM. THEODORE WILLARD CASE, Scipio, N. Y. Filed Jan. 22, 1918. Serial No. 213,225. 28 Claims. (Cl. 250—8.)



25. In an apparatus of the class described, means for producing an audible note, and means responsive to light rays for causing changes in the pitch of said note.

1,379,167. WIRELESS RECEIVER. THEODORE WILLARD CASE, Scipio, N. Y. Filed Feb. 20, 1918. Serial No. 218,309. 3 Claims. (Cl. 250—8.)



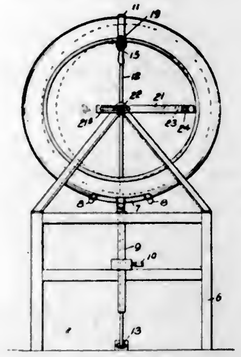
1. A wireless receiver comprising a bulb containing a pair of spaced electrodes and a gas of low di-electric constant, a local circuit connecting the terminals of said electrodes and containing a source of potential, and a translating device, and a third electrode in said bulb, and an aerial directly connected with said electrode.

1,379,168. DEVICE FOR BENDING TUBES. PLINY CATUCCI and LOUIS D. NADEL, Newark, N. J., assignors, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed Nov. 20, 1918. Serial No. 263,301. 7 Claims. (Cl. 153—36.)



1. An apparatus for bending tubes, which comprises a cylinder, a piston therein, means carried by the piston for engaging a tube and pushing the same into a die, a second cylinder, a piston coöperating with said second cylinder, and means carried by the second piston for pushing a series of balls through the tube at a higher rate of speed.

1,379,169. MACHINE AND METHOD FOR INTRODUCING TUBES INTO TIRE-CASES. NORMAN D. CHELLIS, Erie, Pa. Filed Feb. 13, 1920. Serial No. 358,367. 7 Claims. (Cl. 154—9.)



1. A machine for inserting inner tubes or air bags into cases of pneumatic tires, comprising a support for a tire case, means for subjecting the case on the support to a distorting pressure to spread the beads of the case apart, a spreader for carrying the inner tubes or air bag into the case and for engaging the spread beads, and means for engaging the valve stem of the tube or bag and for drawing the length of the tube or bag into the case through the opening between the spread beads.

1,379,170. SAMPLE-TAKING DEVICE. WALTON G. CHRISTIAN, Houston, Tex. Filed May 19, 1919. Serial No. 298,061. 2 Claims. (Cl. 255—72.)



1. A device of the character described, including a hollow drill stem, a drill bit attached to the lower end

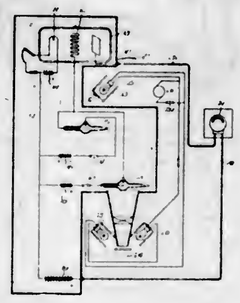
thereof and provided with a central opening, a barrel whose lower end is attached to the upper end of said bit, in alinement with said opening, said barrel extending up into the stem, a valve seat carried by the upper end of said barrel, an upwardly flared nipple threaded into said seat, and a ball valve within said nipple, and coöperating with said seat.

1,379,171. BOTTLE-CAP EXTRACTOR. JOHN W. COLE, Stratford, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Oct. 10, 1919. Serial No. 329,723. 4 Claims. (Cl. 65—47.)



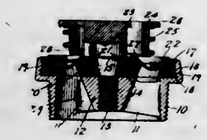
4. A bottle cap extractor comprising a strip of metal curved centrally of itself to form two arms, the portion constituting the bend being resilient, said arms being extended outwardly near their ends, and the extensions so formed being provided with outwardly and downwardly projecting prongs.

1,379,172. PHOTOMETRIC DEVICE. VIRGIL C. CAITES, Chicago, Ill. Filed Jan. 9, 1920. Serial No. 350,406. 16 Claims. (Cl. 179—171.)



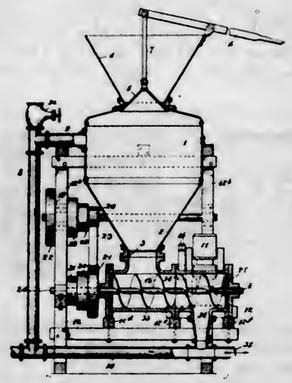
1. A system of the character described comprising an electron discharge tube, a photo-electric cell connected to said tube whereby the variations of current in said cell are amplified by said tube, and a further photo-electric cell to control the residual electric condition of said tube.

1,379,173. PUMP-VALVE. DAVID A. DECROW, Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Apr. 3, 1918. Serial No. 226,508. 4 Claims. (Cl. 251—144.)



1. An automatic or pressure operated pump valve structure, comprising a resilient seat and a light plate valve seating thereon.

1,379,174. CONCRETE MIXING AND DISTRIBUTING APPARATUS. LEWIS H. EICHELBERGER, Plainfield, N. J., assignor to Ransome Concrete Machinery Company, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1916. Serial No. 120,221. 7 Claims. (Cl. 83—75.)

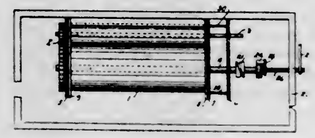


1. The combination of a retort adapted to contain cement and loose material to be mixed and provided with inlet and outlet openings, means for closing the inlet opening, a conduit for compressed air communicating with said retort, mechanical means for moving the materials from said retort and regulating the rate of their movement therefrom, a delivery conduit to which the materials are conveyed from said retort by said mechanical means and a conduit communicating between said compressed air conduit and said delivery conduit, whereby fluid pressure is exerted on said materials in the retort and compressed air in motion simultaneously projected into the materials discharging therefrom, and said mechanical moving and regulating means being interposed between the two points at which compressed air is supplied.

1,379,175. SOLVENT FOR DYESTUFFS. HERBERT A. FOLSOM, Providence, R. I. Filed Feb. 25, 1921. Serial No. 447,834. 2 Claims. (Cl. 8—5.)

2. A process of dissolving vat colors and sulfur colors consisting in mixing the color to be dissolved with water, an alkali, and a sulfite waste liquor.

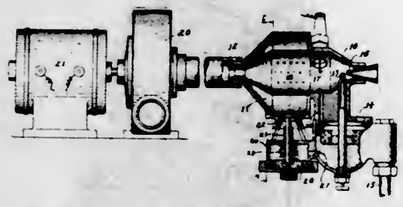
1,379,176. OIL-SEPARATOR. JOHN FOSTER, Calgary, Alberta, Canada. Filed Jan. 24, 1921. Serial No. 439,617. 1 Claim. (Cl. 210—51.)



In an oil separator, the combination of smooth faced metallic rollers their surfaces in close rolling contact, mounted for rotation in stationary brackets and being geared together, leather cut-offs, engaging the ends of the rollers and mounted upon the interior face of a bracket carrying the metallic rollers, a bracket loosely mounted upon the roller shafts and having a leather face plate kept in contact with the ends of the rollers by means of tension springs between the loose bracket and the rigidly mounted bracket, water cut off engaging one side of the small

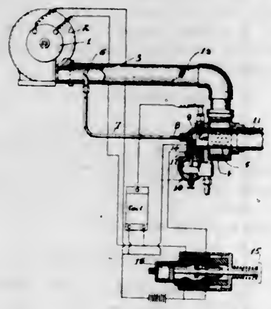
roller to exclude water, a skimming plate coacting upon the large roller and delivering the oil skimmed therefrom to a receiver and means of removing the said oil from the container to an oil tank all substantially as described.

1,379,177. COMBUSTION APPARATUS. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed June 28, 1917, Serial No. 177,443. Renewed June 24, 1920. Serial No. 391,520. 15 Claims. (Cl. 158—28.)



1. The method of starting combustion of liquid fuel in a confined combustion space which consists in momentarily supplying said space with liquid fuel at an abnormally high rate of delivery adapted to produce a rich and readily ignitible mixture flow of fuel and air therein igniting said mixture flow and while it is burning reducing said fuel rate and thereby establishing the proportions suited for normal combustion.

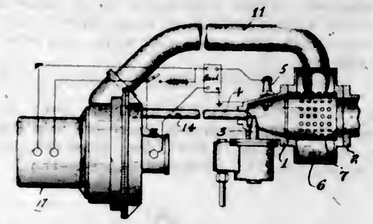
1,379,178. INCLOSED COMBUSTION APPARATUS AND METHOD OF IGNITION. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 18, 1917. Serial No. 186,882. 28 Claims. (Cl. 158—28.)



1. The method of igniting burners of the kind having fuel and air entrances adapted for mixing and burning fuel liquid with combustion-supporting air without vaporization of the fuel previous to such mixture, which consists in applying heat to vaporize the fuel liquid, mixing the resulting vapor with air, igniting the mixture and thereafter continuing the supply of fuel in liquid form.

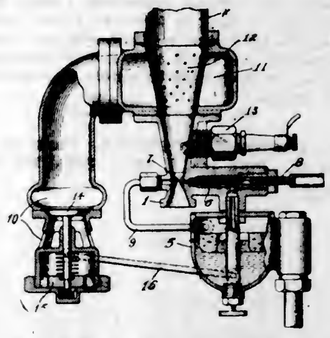
1,379,179. INCLOSED COMBUSTION APPARATUS. JOHN GOOD. Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 28, 1917. Serial No. 188,583. 8 Claims. (Cl. 158—28.)

1. In inclosed combustion apparatus, a closed flame passage in which liquid fuel is sprayed by an air nozzle in atomizing relation to a fuel orifice and ignited by an electric igniter intercepting the spray and supported in combustion by air introduced into contact with said spray without making an explosive mixture therewith in the region of the spark, in combination with said electric igniter located in said passage, an electric motor, a rotary fan-type air-current-creating mechanism driven thereby



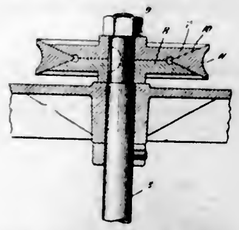
and supplying the air to said flame passage for spraying the fuel and completing the combustion thereof, and means for coincidently energizing said motor and igniter.

1,379,180. LIQUID-FUEL BURNER. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed May 2, 1918. Serial No. 232,036. 14 Claims. (Cl. 158—28.)



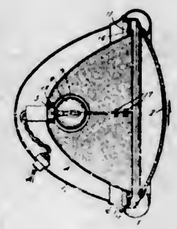
9. An inclosed liquid fuel burner comprising a Venturi-tube having a fuel inlet at its throat region and adapted to produce a mixture of liquid fuel and air, a closed flame passage intervening between said inlet and the exhaust outlet of the burner, means for supplying air and fuel to form said mixture of proportions adapted for complete combustion within said passage, a spark plug, and means for initially increasing the proportion of fuel in said mixture to facilitate ignition thereof by the spark plug.

1,379,181. WIRE-DRAWING MACHINE. THOMAS GORE, Brooklyn, N. Y. Filed Jan. 22, 1920. Serial No. 353,143. 3 Claims. (Cl. 205—14.)



1. A continuous wire drawing machine comprising: a plurality of dies and a series of drawing and forwarding drums, means for driving, at increased speed, each successive drum of the series, and a floating ring on the surface of each drum to compensate automatically for differences between the surface speed of the drum and the speed of travel of the wire passing over said drum.

1,379,182. HEADLIGHT. HARRY F. HAMMOND, South Shaftsbury, Vt., assignor to Nicholas A. Siraco, Whitehall, N. Y. Filed Jan. 16, 1920. Serial No. 351,835. 3 Claims. (Cl. 240—48.2.)



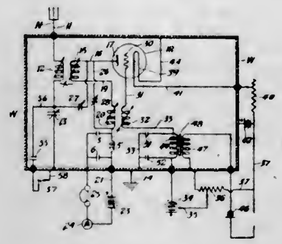
1. The combination with a headlight, a parabolic reflector in the head light, a lamp socket at the focal center of the reflector, and a lamp in the socket, of a horizontal opaque dull surfaced partition fitting the reflector and located centrally thereof, said partition having a recess therein conforming to the shape of the lamp, a fixed ring positioned transversely of the partition and fitting around the lamp socket, and integral outwardly and rearwardly projecting lugs at each side of the forward edge of said partition locking said partition in position.

1,379,183. WAVE-MOTOR. REX HARRIS, Ocean Beach, Calif. Filed May 17, 1920. Serial No. 381,864. 4 Claims. (Cl. 253—12.)



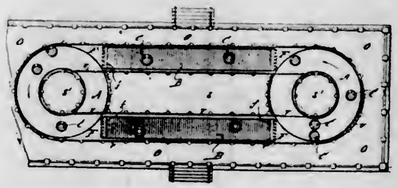
1. A wave motor, including a pair of inclined, supporting rails, an intermediate T rail intermediate said supporting rails, a car provided with longitudinal beams extending downwardly between said tracks, a plurality of vertically and horizontally disposed rollers positioned on said beams adapted to engage the upper flange of said T rail and the web portion of said T rail for holding said car in a certain position relatively to said T rail.

1,379,184. SHIELDING RADIO APPARATUS. LOUIS ALAN HAZELTINE, Hoboken, N. J., assignor, by mesne assignments, to Ware Radio, Inc., a Corporation of Delaware. Filed Nov. 1, 1917. Serial No. 199,742. 22 Claims. (Cl. 250—6.)



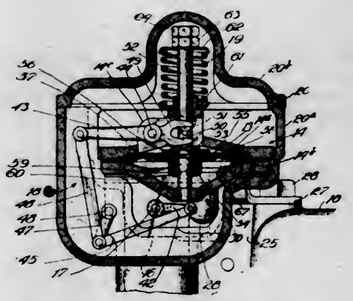
20. Apparatus for radio-telephone voice receiving comprising a receiving circuit oscillating at a substantially constant frequency in synchronism with the incoming signal, an electrostatic screen inclosing said oscillating circuit, a telephone receiver outside said screen and connected within the screen to said oscillating receiving circuit, and connections confining radio frequency current within the screen.

1,379,185. AMUSEMENT APPARATUS. JAMES A. HEALY, Brooklyn, N. Y. Filed Feb. 10, 1921. Serial No. 443,871. 10 Claims. (Cl. 104—53.)



1. In amusement apparatus of the character designated, the combination of a plurality of rotatable platforms, intermediate traveling platforms arranged to convey and transfer a passenger car from one rotatable platform to another, and said passenger car unattached and supported loosely on the movable surfaces of said platforms, for the purpose described.

1,379,186. METHOD OF AND MEANS FOR GOVERNING EXPLOSIVE-ENGINES. JARVIS S. JENNINGS, Jr., Detroit, Mich. Filed Feb. 24, 1920. Serial No. 360,943. 38 Claims. (Cl. 137—153.)

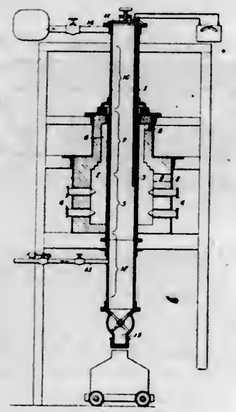


24. The method of controlling internal combustion engines which consists in subjecting a spring-controlled suction-responsive member to the suction of the engine and disproportionately varying the effective opening through the intake passage of the engine so as to control the degree of suction whereby the force exerted by the suction upon the suction responsive member to move it in one direction will under varying loads exactly balance at a given speed the force exerted by the spring upon the suction-responsive member to move it in the other direction.

1,379,187. APPARATUS FOR FORMING NITROGEN COMPOUNDS. ALPONSE KAUFMAN, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company, Incorporated, a Corporation of New York. Filed May 2, 1917. Serial No. 165,860. 6 Claims. (Cl. 23—13.)

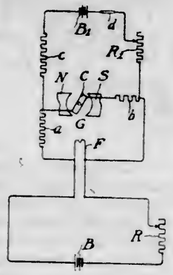
1. In apparatus for the production of alkali metal cyanid, in combination, an elongated retort constructed

and arranged to receive material to be treated at one end and to discharge the treated material at the other end, a heating chamber about an intermediate portion of said retort constructed and arranged to insure a reaction temperature about a zone of said retort adjacent but distinct from the zone theerof from which the treated material is discharged and to insure a lower preheating temperature about a zone of said retort adjacent but distinct from the zone thereof to which new material to



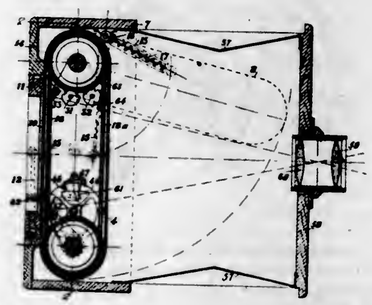
be treated is admitted, the latter zone being unheated, and means for regulating the passage of heating gases about the preheating zone.

1,379,188. OPTICAL PYROMETRY. EARL A. KEELER, Norristown, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 30, 1919. Serial No. 334,496. 18 Claims. (Cl. 88—14.)



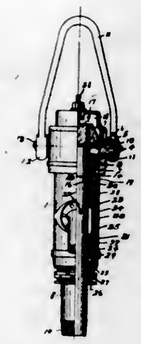
1. The method of measuring temperature, which consists in passing current through an incandescent body, varying said current to bring said body to a predetermined temperature ,subjecting a galvanometer to the effect of said current to produce a deflection, reducing the potential difference impressed upon said galvanometer while maintaining said current, and thereafter varying the current through said body to bring it to a brightness to match the brightness of the body whose temperature is to be measured, and determining the temperature from the resultant deflection of the galvanometer.

1,379,189. CAMERA. GRAHAM KING, South Orange, N. J. Filed Apr. 22, 1918. Serial No. 229,969. 14 Claims. (Cl. 95—31.)



1. A camera comprising a casing in combination with an inwardly swinging holder carrying the film and shutter.

1,379,190. HYDRAULIC SWIVEL. WALTER E. KING, Houston, Tex. Filed July 16, 1920. Serial No. 396,681. 2 Claims. (Cl. 255—25.)



1. A hydraulic swivel including a casing having a side opening, a hose connection secured to the side of the casing, and in alinement with said opening, a swivel stem whose upper end is closed rotatably mounted within the casing and perforated opposite said opening, bearings sustaining said stem within said casing, glands fitted within the lower end of the casing around said stem, and packing rings surrounding the stem within the casing, above and below said perforations, said rings being held in position by said glands.

1,379,191. SHOCK-ABSORBER. JAMES S. LANG, Boston, Mass. Filed Jan. 25, 1919. Serial No. 273,136. 13 Claims. (Cl. 188—129.)

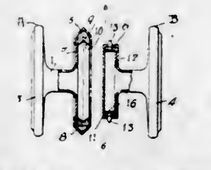
1. In a shock absorber, the combination comprising a friction blade, a friction shoe engaging said blade, said blade and shoe presenting contacting surfaces inclined with relation to a line of force acting to compress them

whereby the blade may have lateral displacement upon the application of such force, a part with which the



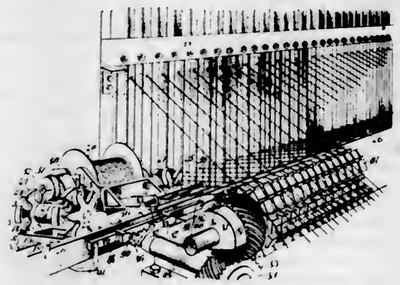
blade is moved into engagement when displaced laterally as aforesaid, and means for applying pressure to compress said blade and shoe.

1,379,192. SEPARABLE CUFF-BUTTON. WARREN R. LARTER, Newark, N. J., assignor to Larter & Sons, Newark, N. J., a Firm composed of Frederick H. Larter, Harry C. Larter, Halsey M. Larter, and Warren R. Larter. Filed Sept. 3, 1920. Serial No. 407,997. 12 Claims. (Cl. 24—102.)



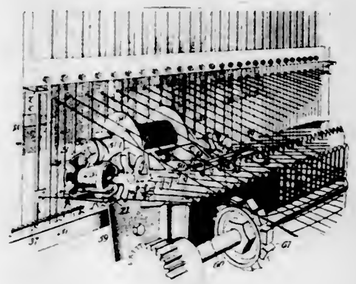
11. In a separable cuff button, the combination of a pair of members having coöperating connecting elements, one of said elements comprising a disk-like head and the other of said elements comprising a socket to telescopically receive said head, one of said elements having an annular inclined bearing surface therein, and radially movable fastening members mounted in the other of said elements to engage said inclined surface, engagement of said fastening members with said inclined surface automatically drawing said elements into tight engagement with each other to connect said pair of members.

1,379,193. WEAVING MECHANISM. ALEXIS LE BLANC, New York, N. Y., assignor to The Composite Metal Lath Company, New York, N. Y., a Corporation of New York. Filed July 9, 1915, Serial No. 38,918. Renewed Oct. 12, 1920. Serial No. 416,515. 12 Claims. (Cl. 139—39.)



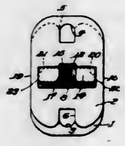
12. In a loom, the combination with means for taking the two outer warp strands at a single point, of a shuttle having cupped wheels traveling across the warp strands and means for holding the outer warp strands apart at the point of passage of the cupped wheels.

1,379,194. LOOM. ALEXIS LE BLANC, New York, N. Y., assignor to Composite Metal Lath Company, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1915, Serial No. 16,625. Renewed Apr. 14, 1921. Serial No. 461,367. 18 Claims. (Cl. 139—18.)



1. In a loom, the combination of a shuttle, a shuttle-carrier and wheels carried by and supporting the shuttle and having members projecting between strands of the lower rank, the shuttle and the wheels traveling on one side of the lower rank of warp strands, the shuttle-carrier traveling on the other side.

1,379,195. FUSIBLE LINK AND STRUT. LEROY M. LEWIS, Philadelphia, Pa., assignor to Owen B. Lewis, Baltimore, Md. Filed Mar. 26, 1920. Serial No. 368,888. 11 Claims. (Cl. 169—42.)

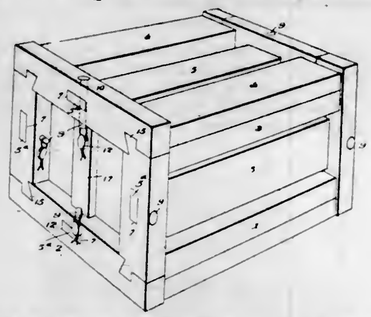


3. In a fusible link or strut, the combination of a pair of adjacently located plates provided with laterally deflected socket portions and a strain member fitting within said socket portions, said strain member provided with an integrally formed laterally extending indicating projection extending through and beyond an aperture provided in one of said socket portions, said projection being out of contact with said plates and fusible material between said plates for binding said plates together and for holding said plates and said strain member in fixed relative position until said material is fused by heat.

1,379,196. KNOCKDOWN SHIPPING BOX OR CRATE. DANIEL LOWENHAUPT and CHARLES D. ROWE, Mount Vernon, Ind. Filed Aug. 10, 1920. Serial No. 402,531. 2 Claims. (Cl. 217—12.)

1. A knock-down box or crate comprising sides each having a corner strip and a brace, the corner strips having slidably detachable connecting means whereby one

side is connected to another side, the braces having projecting ends, and ends for the box or crate which have



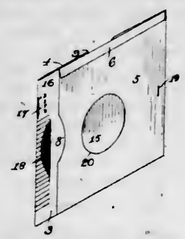
openings detachably receiving the projecting ends of the braces.

1,379,197. FLEXIBLE LUBRICANT-CONTAINER. JOHN FRANKLIN MACINDOE, Philadelphia, Pa. Filed Nov. 29, 1919. Serial No. 341,525. 1 Claim. (Cl. 221—60.)



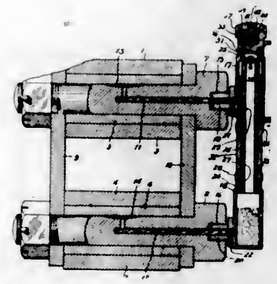
A collapsible lubricant container, for use in filling grease cups, provided with a convex head engageable with the top of a grease cup and adapted to project thereinto so as to form a smooth surface to the lubricant filled into said cup and to leave a plunger space at the top of said cup free of lubricant, said head being provided substantially centrally with an inturned cross-sectionally annular flange providing a discharge opening, and a closure removably engaging said flange.

1,379,198. PHONOGRAPH-RECORD-RECEIVING ENVELOP AND METHOD OF MAKING THE SAME. MARC GILMORE MARKGRAF, Brooklyn, N. Y. Filed Jan. 27, 1920. Serial No. 354,380. 24 Claims. (Cl. 129—16.7.)



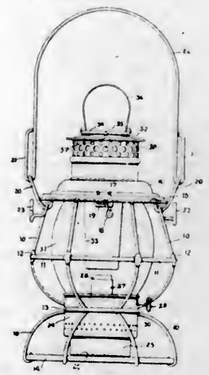
3. An envelop adapted for filing phonograph records made from a single sheet of paper of substantially even width and having its opposite ends provided with diagonally oppositely located projecting tabs and folded to form a plurality of compartments or pockets opening in different directions.

1,379,199. LUBRICATOR. FRANK MECKEL, Lakewood, Ohio. Filed May 11, 1918. Serial No. 233,822. Renewed Apr. 8, 1921. Serial No. 459,712. 23 Claims. (Cl. 184—1.)



22. An article of the character described subject to bodily movement or vibration comprising a reservoir provided below with a fluid discharge opening and above with an air vent opening, and a vibratorily displaceable valve at said air vent opening and adapted alternately to be seated whereby to limit the discharge of fluid when the parts are quiescent and to be unseated so as to restore atmospheric equilibrium when the parts are vibrant.

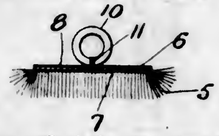
1,379,200. MELTING APPARATUS. ROBERT T. MORRIS, New York, N. Y. Filed Nov. 19, 1919. Serial No. 339,239. 1 Claim. (Cl. 126—256.)



In apparatus of the class described, in combination, a substantially cylindrical chamber for conducting a heating medium, means secured to and positioned at the lower portion of said chamber for producing said heating medium, a bail secured to said chamber at two substantially diametrically opposite points whereby said chamber may be tilted substantially about an axis passing through said points, a substantially cylindrical receptacle of lesser diameter than said chamber and of a length slightly less than that of said chamber provided with an outwardly extending lip and with a spout formed at its upper edge portion, a substantially annular member secured at the upper part of said chamber having an opening of slightly greater diameter than the diameter of said receptacle for loosely receiving said receptacle and supporting said receptacle entirely within said chamber by engagement with said lip, said annular supporting member being provided with a recess for accommodating said spout at a point in a vertical plane substantially at right angles to the vertical plane passing through said two diametrically opposite points, whereby the upper edge of said receptacle and

said spout is substantially flush with said annular supporting member and whereby, as said chamber is tilted about an axis through said two points and in the direction of said recess, said receptacle is permitted to swing in its annular supporting member and within and relative to said chamber in the direction of the tilting of said chamber to swing said spout away from, and out of flush relation with, said annular supporting member to permit pouring of the contents from said receptacle.

1,379,201. POWDER-PUFF. GUSTAVE MOSHEIM and ALBERT S. MOSHEIM, East Orange, N. J. Filed June 29, 1920. Serial No. 392,671. 2 Claims. (Cl. 15—72.)



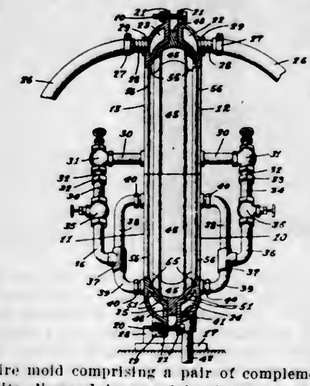
1. A powder puff of the class described comprising a puff body composed of a plurality of fabric strands, a backing member composed of flexible material, a fabric covering for one side face of said backing member, the periphery of said covering extending around the periphery of said member and secured to the other side face thereof, and said puff body being secured to the last named side face of said backing member by adhesive material.

1,379,202. MOUNT FOR SNAP-FASTENERS. ISIDOR MOSS, Brookline, Mass. Filed June 8, 1920. Serial No. 387,361. 1 Claim. (Cl. 211—34.)



A mount for holding and separating snap fasteners composed of members having attaching bases and complemental stud and socket parts projecting from said bases, and adapted to be separately interengaged, said mount being composed of superimposed layers, the aggregate thickness of which is such that the mount may be interposed between the bases when the stud and socket parts are interengaged, said layers being provided with coinciding orifices formed to receive the said stud parts, the layers being separable from each other to separate the fastener members.

1,379,203. TIRE-MOLD. CLARENCE P. MUNDALE, Seattle, Wash. Filed July 27, 1920. Serial No. 399,267. 7 Claims. (Cl. 18—18.)

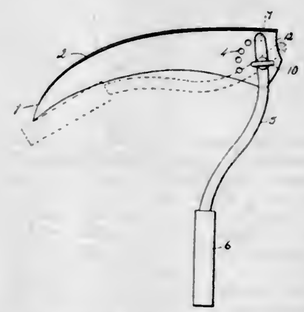


1. A tire mold comprising a pair of complementary annular units disposed in co-axial relation, each of which units comprise complementary semi-circular sections, hinge connections for the said sections, clamping means for the said sections, axial adjusting means for the said units and clamping means for the same.

1,379,204. PROCESS FOR CONTROLLING THE SETTING OF CEMENT PRODUCTS. CHARLES L. NORTON, Boston, Mass., assignor to Asbestos Shingle Company, a Corporation of New York. Filed Dec. 4, 1917. Serial No. 205,387. 6 Claims. (Cl. 18—47.5.)

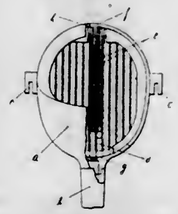
1. The method of producing a flat relatively thin stone-like body of hydraulic cement of uniform exterior appearance and water absorbtive capacity which comprises confining the same during the setting operation between two opposite restraining surfaces and maintaining an atmosphere of approximately 90 per cent. humidity about the edges thereof.

1,379,205. SICKLE. JOHN OGDEN, Philadelphia, Pa. Filed Apr. 18, 1919. Serial No. 291,024. 2 Claims. (Cl. 30—9.)



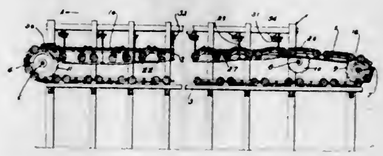
1. A tool comprising a blade having a concave recess at the heel thereof, a shank adjustably attached to said blade in the region of said heel, and a lug carried by the shank and adapted to enter the concave recess when the blade is in a closed position.

1,379,206. URINAL. TOMOSUKE OHARA, Tokyo, Japan. Filed Oct. 15, 1920. Serial No. 417,203. 3 Claims. (Cl. 4—12.)



1. A urinal having a number of cylindrical rods arranged side by side, leaving a little clearance between each other, in the vertical side of the urinal, against which side discharge is made.

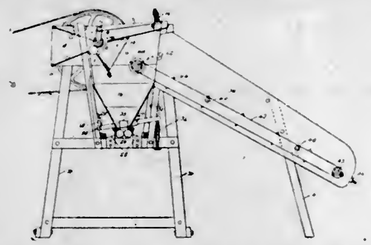
1,379,207. SIZER AND GRADER. ARTHUR M. O'QUINN, Miami, Fla. Filed July 30, 1920. Serial No. 400,059. 6 Claims. (Cl. 130—32.)



1. In a sizer and grader, a frame; a conveyer traversing the frame; members between which the material is

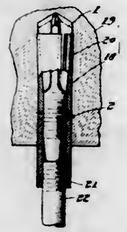
sized; means for suspending said members from the conveyer for up and down swinging movement; a track along which said members move; and means for adjusting the track to vary the sizing space between said members.

1,379,208. STRIPPING AND HUSKING MACHINE. ADOLFO F. PANDO, Buenos Aires, Argentina. Filed Nov. 4, 1916. Serial No. 129,601½. 5 Claims. (Cl. 130—5.)



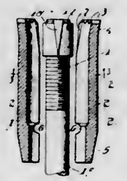
1. In an ear and stalk separating mechanism for corn husking machines, a fixed rotatable stripping roller, a second stripping roller co-acting therewith, a pivoted arm at the free end of which said second roller is rotatably supported, the pivotal axis of said arm being behind the line joining the centers of the two rollers and so positioned that the movement of the movable roller to and from the fixed roller is in a path nearly parallel to the path of movement of the stalks between the rollers, and means for feeding stalks between the rollers on the side in front of said line, whereby the rollers tend to approach one another when an ear reaches the point of tangency of the rollers.

1,379,209. ANCHOR-DRILL BOLT. JOHN H. PHILLIPS, Chicago, Ill. Filed June 21, 1919. Serial No. 305,882. 9 Claims. (Cl. 85—2.4.)



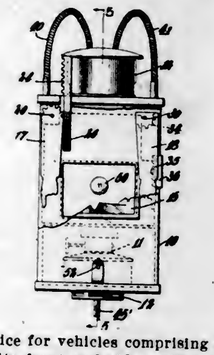
1. A drill bolt comprising a drill head provided with a shank, the drill tapering from adjacent the end of the head thereof to the shank, said shank provided with a therad thereabout.

1,379,210. ANCHOR-SHELL DRILL. JOHN H. PHILLIPS, Chicago, Ill. Filed July 21, 1919. Serial No. 312,243. 16 Claims. (Cl. 85—2.4.)



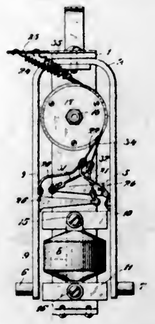
1. A drill comprising a plurality of coöperating similarly formed parts arranged together to provide a tubular shell, the parts at one end of the shell enlarged and provided with cutting teeth at the extreme end, said parts cut away at their juncture adjacent said end to provide substantially V-shaped recesses, the opposite end of said shell parts arranged for engagement with a coöperating chuck.

1,379,211. VEHICLE-SIGNAL. JOHN POPOWICH, Passaic, N. J. Filed Jan. 3, 1921. Serial No. 434,481. 3 Claims. (Cl. 116—45.)



1. A signal device for vehicles comprising a casing having apertures in its front and side walls, a lamp in said casing, a pair of shutter plates vertically slidable adjacent the front wall of the casing, said plates having apertures formed therein and registering with the aperture in the front wall of the casing when the plates are in normal position, angular offsets on said plates registering with the apertures in the side wall of the casing when the plates are in normal position, a pair of signal arms normally concealed by the casing, and means whereby corresponding ones of said signal arms and plates may be moved in unison to operative position with the front aperture covered and the side aperture uncovered.

1,379,212. VIBRATION-MOTOR. GEORGE RAMSEY, Brooklyn, N. Y., assignor to Marguerite V. O'Leary, Montreal, Quebec, Canada. Filed Mar. 27, 1918. Serial No. 225,029. 13 Claims. (Cl. 74—53.)

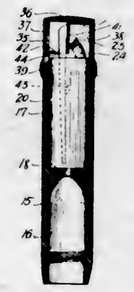


1. The method of producing rotary motion in a rotatable drum mounted in frictional engagement with a pair of flexible members; which comprises producing longitudinal vibrations in the said members by successively increasing and decreasing the tension on said members by forces applied to one end of the said members and in the direction of their lengths in such manner as to establish transverse waves in said members; and applying said forces in alternation whereby the tension on one of the members is increased when the tension on the other of said members is decreased.

10. In a motor of the character described, comprising a vibrating fork, an electromagnetic means for vibrating said fork, a transmission band, rotary means in operative relation to said transmission band, and securing devices operatively connecting said transmission band with both prongs of said fork in such manner as to establish wave motion in the band and so that said transmission band delivers power impulses to said rotary means from both prongs of said fork when the electromagnetic forces are maximum.

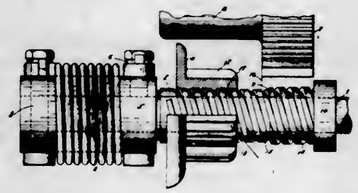
13. A motor of the character described comprising in combination a rotatable drum, a pair of bands in operative engagement with said drum, anchoring means for one end of said bands and vibrating means for the other end of said bands, with said vibrating means adapted to establish alternate vibrations in said bands substantially as described.

1,379,213. COMBINED PEN AND CIGAR-LIGHTER. FRANK RAUCH, Brooklyn, N. Y. Filed July 23, 1920. Serial No. 398,435. 6 Claims. (Cl. 67—7.1.)



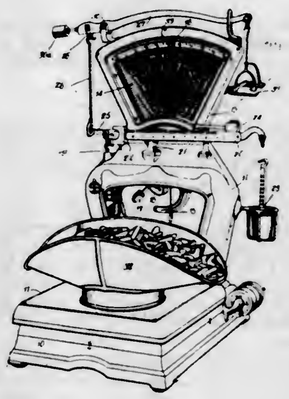
1. A lighter comprising an inner and outer casing, pyrophoric material and a flat spring disposed longitudinally in said inner casing, a tip engageable with said outer casing, and a yieldingly mounted abrader carried by said tip adapted to operate under the tension of said spring upon said pyrophoric material, when the tip is being withdrawn.

1,379,214. ENGINE-STARTER. JULIUS H. RICHARDS, Springfield, Mass., assignor to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed Dec. 2, 1919. Serial No. 342,023. 9 Claims. (Cl. 74—7.)



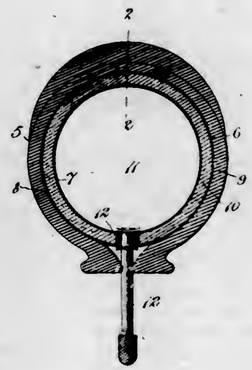
1. In an engine starter, a drive including a rotatable shaft, a driving member mounted thereon for longitudinal movement thereon and rotary movement therewith, said shaft having two separate means arranged in alinement and coöperating with the driving member, the first means being arranged to advance the driving member longitudinally to the zone of the second means and also permit the shaft to rotate freely within the driving member and without effect thereon when such member in its longitudinal movement encounters an obstruction, and the second means being arranged to positively engage such member to advance it into driving position and cause rotation thereof.

1,379,215. COMBINED COMPUTING AND COUNTING SCALE. CHARLES EDWARD RIEDEL, Detroit, Mich., assignor to Detroit Automatic Scale Company, Detroit, Mich., a Corporation of Indiana. Filed Aug. 11, 1917. Serial No. 185,667. 8 Claims. (Cl. 265—30.)



1. In a counting scale, the combination of a support for articles to be weighed, a main beam, means connecting the said support with the main beam, a supplementary beam, a detachable link connecting the supplementary beam to the main beam, and an article carrier on the supplementary beam adapted to receive one or more articles and through said link and main beam and connecting means to counterbalance a larger number of similar articles placed on the said support in a predetermined ratio.

1,379,216. ELASTIC BODY. CHARLES SATTLER, Brooklyn, N. Y. Filed June 30, 1919. Serial No. 307,745. 6 Claims. (Cl. 152—18.)



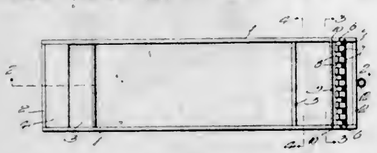
1. A tire structure consisting of a member formed of rubber, a fibrous constituent, and shellac.

1,379,217. SALES-CHECK HOLDER AND NOTCHER. WALTER H. SAWYER, Philadelphia, Pa., assignor to Andrew Culver Boyd, Lansdowne, Pa. Filed May 26, 1920. Serial No. 384,404. 9 Claims. (Cl. 211—37.)



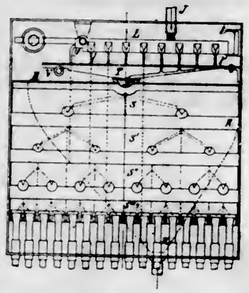
7. A device of the class described comprising a plate adapted to support a check pad, and a check notcher at the side edge of said plate lying within the contour of said plate and integral therewith.

1,379,218. GAME APPARATUS. JOSEPH F. SCHULTHEISS, Weehawken, N. J. Filed Dec. 22, 1919, Serial No. 346,506. Renewed Mar. 26, 1921. Serial No. 455,979. 5 Claims. (Cl. 46—62.)



4. A game apparatus comprising a guideway, counters pivotally mounted adjacent one end of the guide-way and extending transversely of the same and normally positioned out of a vertical position, and abutment rods extending transversely of the guide-way in front and to the rear of the counters and adapted for engagement by the counters to support the counters in an inclined position.

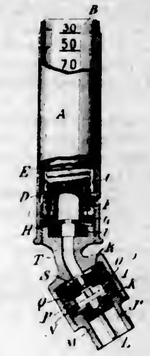
1,379,219. ECONOMICAL LUBRICANT-DISTRIBUTER FOR MECHANICAL INSTALLATION. EMILE JOSEPH AUGUSTIN SCHULTZ, Paris, France. Filed Oct. 22, 1918. Serial No. 259,243. 7 Claims. (Cl. 184—6.)



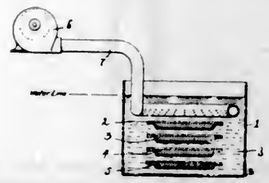
6. In an apparatus for distributing oil, the combination of a pivoted counter-weighted pan, adapted to receive oil from an oil delivery member having on one side of its pivotal point a plurality of openings from which the oil passes toward the elements to be lubricated and on the other side of the pivotal point an opening, the outlet end of which is raised above the outlet ends of the other openings, the excess oil in the pan flowing through said opening.

1,379,220. PRESSURE-GAGE FOR PNEUMATIC TIRES OR THE LIKE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, and HENRY PHILLIP KRAFT, Ridgewood, N. J. Filed Dec. 16, 1916. Serial No. 137,326. 5 Claims. (Cl. 284—4.)

1. A gage for pneumatic tires or the like comprising a casing, a foot member T provided with means for connection with a tire valve casing, said foot member having a reduced neck between said casing and connection means, said neck being readily bendable, whereby in the manufacture of said gage said foot can be bent to a desired angle with relation to said casing, and whereby the desired angle may be changed by the degree of bending to which the neck is subjected.



1,379,221. PROCESS FOR PURIFYING AIR. HENRY P. SCOTT and WILLIAM G. BOND, Wilmington, Del. Filed July 23, 1915. Serial No. 41,458. 12 Claims. (Cl. 167—3.)

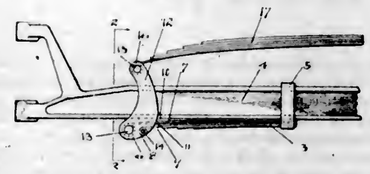


1. The process of regenerating air containing carbon dioxid, which consists in supporting two separate oxygen compounds within a body of water, passing the vitiated air through said water, the introduction of the carbon dioxid initiating chemical reaction which alters the oxygen content of each of said compounds and restores to the air as free oxygen an equivalent amount to that contained in the carbon dioxid.

1,379,222. PIGMENT CARBON DERIVED FROM VEGETABLE PITH. STEWART E. SEAMAN, New York, N. Y. Filed Nov. 3, 1919. Serial No. 335,374. 4 Claims. (Cl. 134—60.)

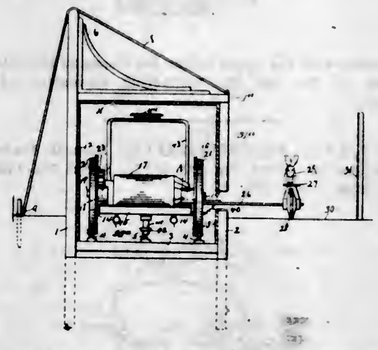
1. As a new product, pigment carbon derived from vegetable pith.

1,379,223. VEHICLE-SPRING. JOHN E. SIMMONS, Portland, Oreg. Filed June 17, 1920. Serial No. 389,789. 4 Claims. (Cl. 267—45.)



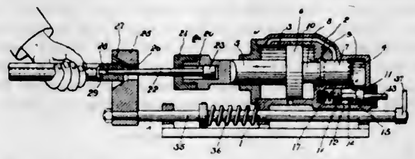
2. A laminated leaf spring adapted to be secured beneath a vehicle axle; an eye formed upon the outer end of the longest leaf of said spring; an eye formed upon the outer end of the second longest leaf of said spring; a shackle arm pivotally connected to each of said eyes and extending above said axle; and a laminated leaf spring pivotally connected to the upper end of said shackle arm.

1,379,224. DOG-RACING AMUSEMENT. OWEN P. SMITH, Chicago, Ill. Filed Sept. 4, 1919. Serial No. 321,612. 4 Claims. (Cl. 46—73.)



1. In a dog racing amusement, a race course suited for dogs, a casing extending around the outer side of the race course and provided with a longitudinal opening, a mechanical conveyer including a track extending around the race course and located within the casing, and a conveyer car mechanically operated upon said track and provided with an arm extending through the longitudinal opening of the casing in a projecting position over the track and adapted to carry a lure, and a wheel rotatably mounted on and supporting the arm at the projecting end thereof.

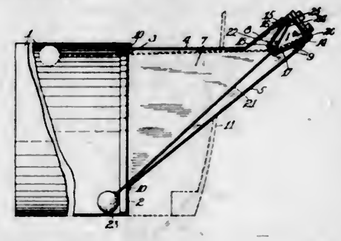
1,379,225. PINNING-OUT MACHINE FOR DRILL-STEELS. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 14, 1919. Serial No. 310,750. 5 Claims. (Cl. 76—5.)



1. In a pinning out machine for drill steels, a cylinder and fluid operated reciprocatory hammer, a pin adapted to enter the drill steel, a support for the steel into which the pin is to be driven, and means whereby relative alining reciprocatory movement between the cylinder and the said support starts and stops the operation of the hammer.

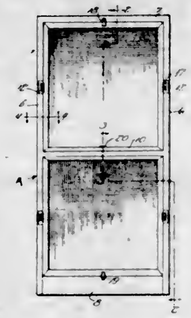
1,379,226. TANK-FILLER AND CONTENTS-INDICATOR. ALBERT STANLEY, Indianapolis, Ind. Filed Oct. 25, 1919. Serial No. 333,354. 5 Claims. (Cl. 220—86.)

1. A tank filler and contents indicator including a conduit having an inlet neck, the wall of the neck having a relatively thick portion provided with a vertical slot and also a hanger within the neck at one side thereof, a closure for the neck, an indicator plate secured upon the thick wall portion and covering the slot therein, a pointer pivotally connected to the hanger in the conduit neck and extending toward the indicator plate, a controlling rod fixed on the pointer and extending swingably through the conduit, and a buoyant device fixed on the controlling rod.



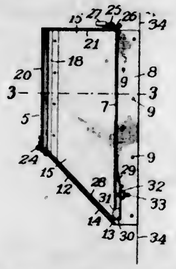
4. A tank comprising a horizontal shell and a plane vertical end, the end having a vertical slot therein, a filling conduit having a vertically flared outlet end and a relatively small inlet neck, the flared end being secured to said vertical plane end to cover said slot, the top of said conduit being approximately horizontal, the bottom of said conduit extending upwardly at an acute inclination from said tank end, said inlet neck having a mouth member secured thereto which has a filling orifice and also an indicator base, said base having an indicator slot therein and a hanger on the under side of the base, a closure for said orifice, a graduated indicator plate secured to the upper face of said base and covering the indicator slot, said plate being transparent, a pivot supported by the lower portion of said hanger, a pointer supported by said pivot and extending upward toward and nearly to said plate, a controlling rod fixed to said pointer and extending through the flared portion of said conduit and through said vertical slot, and a float fixed on said rod.

1,379,227. COMBINATION SCREEN AND STORM-SASH. WILLIAM R. STERMER, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,665. 3 Claims. (Cl. 20—55.)



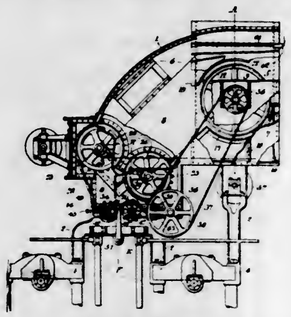
1. The combination with an outer open rectangular frame adapted to be permanently fastened in a door or window frame and having its inner edges rabbeted, and plates secured to the margins of said edges having transverse slots therein and slit vertically from said slots to form tongues, of an inner frame adapted to be seated in the rabbeted edges of the outer frame, and pins projecting laterally from the side edges of said inner frame that are adapted to be passed through said slots and confined in recesses in the outer frame back of said tongues, said tongues being adapted to guide said pins through said slots.

1,379,228. CABINET FOR PAPER DRINKING-CUPS. WILLARD E. SWIFT, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed June 15, 1912. Serial No. 703,807. 1 Claim. (Cl. 211—29.)



In a cabinet for a stack of collapsed drinking cups, a casing for inclosing the cups having an inclined bottom, and a slit between the lower edge of the bottom and one of the side walls of the cabinet, springs attached to said side wall, and rubber blocks carried by the free ends of said springs and bearing against the edges of the cups immediately above the lowermost cup in the stack, and means for varying the tension of said springs.

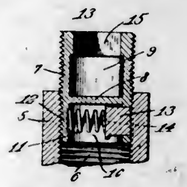
1,379,229. CONDENSER FOR COTTON-PRESSES. JOHN A. TAFT, San Antonio, Tex., assignor, by mesne assignments, to H. H. Dickson, Harris county, Tex., G. R. Bennett, Travis county, Tex., and J. M. Bennett and S. J. Brooks, Bexar county, Tex. Filed July 12, 1917. Serial No. 180,136. 39 Claims. (Cl. 13—17.)



35. In a lint condensing machine, the combination of a receiving drum, means for guiding disseminated lint to the peripheral surface thereof, means associated with the drum for receiving foreign matter from lint impinged thereon, a pair of coöperating accumulating rolls mounted to one side of and below the axis of the drum, said rolls having their peripheral surfaces tangent to an inclined plane facing the drum, and disposed in the zone of centrifugal projection from the drum, the casing inclosing portions of the drum and rolls and comprehending the path of centrifugal projection from the former to the latter, means for operating the drum to project lint gathered thereon to the rolls, and means for differentially and selectively operating the rolls to form lint accumulated thereon into a bat of uniform thickness and density.

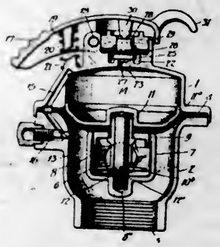
1,379,230. GREASE-CUP. NICHOLAS W. TRAUTNER, St. Paul, Minn. Filed Sept. 27, 1920. Serial No. 412,975. 2 Claims. (Cl. 184—48.)

1. In a device of the character described, a cup having internal threads, a plunger movable within the cup and having a lateral opening, a coiled spring disposed within the plunger, and means disposed within the opening and



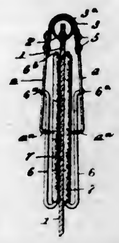
contacting with the coiled spring for engaging the internal threads of the cup for restricting movement of the plunger.

1,379,231. FLUSHING-VALVE. EARL G. WATROUS, Chicago, Ill. Filed Jan. 29, 1917. Serial No. 145,262. 8 Claims. (Cl. 137—93.)



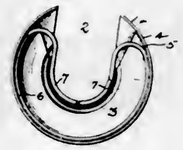
2. In a flushing valve, the combination of a casing having water inlet and outlet openings, a diaphragm making constant division of the casing into a water-flow section and a control chamber, said casing having two by-passes through its wall from the control chamber respectively to the outlet portion and to the inlet portion of the water-flow section and also having internal walls dividing the water-flow section into inlet and outlet portions, one of them including a central chamber relatively deep along a line perpendicular to the diaphragm and having an opening toward the diaphragm for effecting communication between the inlet and outlet portions, a manual valve for the first-mentioned by-pass, a valve carried by the diaphragm extending through said opening into the central chamber and having two axially spaced valving portions either of which may control said opening accordingly as the diaphragm moves, and a guide member fixed within said central chamber and penetrating said valve.

1,379,232. WINDSHIELD-CLEANER. JOHN L. WEBB, Salt Lake City, Utah, assignor to Micajah M. Johnson, Salt Lake City, Utah. Filed Oct. 29, 1920. Serial No. 420,384. 5 Claims. (Cl. 15—59.)



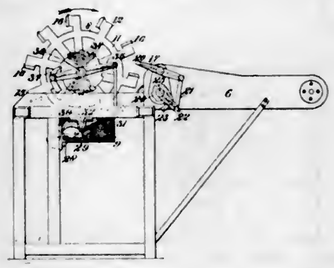
1. A windshield cleaner comprising a saddle member adapted to be supported on a windshield, a yieldable wiper arm having one of its ends secured to the saddle member and extending therefrom for a portion of its length, thence inwardly toward the windshield glass, and thence toward the saddle and substantially parallel with said portion to provide a wiper portion, said wiper portion being provided with a wiping element, and means to press the arm against the glass.

1,379,233. PIPE-COLLAR. EUGENE WILCKE, Dayton, Ohio. Filed May 14, 1919. Serial No. 297,117. 13 Claims. (Cl. 126—317.)



1. In a device of the character described, two relatively rotatable interconnected arcuate members, each having a lateral passage way, the open portions of the respective arcuate members being movable into and out of registry one with the other by the relative adjustment of said members.

1,379,234. APPARATUS FOR HANDLING EGGS. COLONEL J. WILLIAMSON, San Francisco, Calif., assignor to Williamson Machine Company, San Francisco, Calif., a Corporation of California. Filed Dec. 27, 1920. Serial No. 433,527. 16 Claims. (Cl. 146—14.)



14. An apparatus for receiving, wetting and discharging wetted eggs, the same comprising a reservoir adapted to contain a liquid body, a receiver associated with the reservoir for conveying eggs into, through and out of said liquid body, means for heating the liquid body, and mechanism for delivering eggs in timed relation to the egg receiver.

1,379,235. PAINT VEHICLE AND METHOD OF MAKING THE SAME. GEORGE WITTY, New York, N. Y. Filed June 18, 1920. Serial No. 389,976. 4 Claims. (Cl. 134—56.)

1. A paint vehicle consisting of a mixture of rosin, crude oil, paraffin oil, gasolene, Japan drier, sugar of lead, and sulfur.

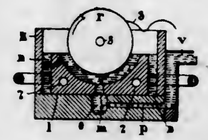
1,379,236. HAIR-NET. DAVID WOLF, New York, N. Y. Filed Oct. 14, 1920. Serial No. 416,978. 4 Claims. (Cl. 132—49.)

A hair net made of metallic wire or filament formed into a mesh with adjacent meshes connected to each other, the filament being of such fineness as to have a hair-like



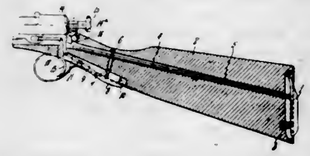
appearance and cause the net to be practically invisible when in position on the hair of a wearer.

1,379,237. DETINNING OF TINNED IRON-SCRAP. MATTHEW ATKINSON ADAM, JOHN STEVENSON, and ALAN THOMAS MABBITT, London, England; said Stevenson and said Mabbitt assignors to said Adam. Filed Aug. 31, 1920. Serial No. 407,250. 7 Claims. (Cl. 204—17.)



1. A process for the detinning of tinned iron scrap which consists in dissolving the tin in strong solutions of the chlorids of tin and iron approaching saturation and circulating the solution through an electrolytic cell operating at high current density and practically continuously removing the non-coherent deposit.

1,379,238. SAFETY DEVICE FOR FOWLING-PIECES, RIFLES, AND THE LIKE. ALFRED WALTER ALEXANDER BARNARD, Wellington, New Zealand, assignor of one-fourth to Stephen John Hartley, Main Road, Himatangi, Wellington, New Zealand. Filed May 9, 1919. Serial No. 295,918. 2 Claims. (Cl. 42—70.)

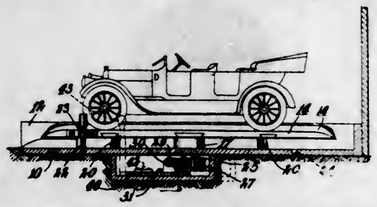


1. In a firearm, a safety device comprising a spring controlled lever pivoted to the end of the stock, a rod working through said stock pivoted to said lever, a spring controlled lever pivoted to the stock neck, an arm on said latter lever engaging a projection on the firearm trigger, a connecting arm between said rod and said last mentioned lever, and means for locking the firing mechanism actuated by said rod and adapted to unlock said firing mechanism on pressure being applied to said levers.

1,379,239. TURNTABLE FOR VEHICLES. JOHN BARWICKI, New York, N. Y. Filed Feb. 1, 1921. Serial No. 441,639. 5 Claims. (Cl. 104—36.)

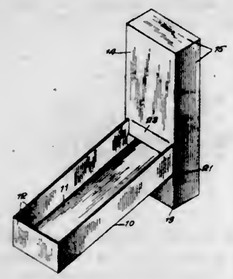
1. A device of the class described comprising a base, a turntable pivoted on said base, a worm gear fixed to said

turntable concentric to its pivot, a worm pinion meshing with said worm gear, means for rotating said worm pinion, manually operable means for moving said worm



pinion bodily into and out of engagement with said worm gear and a handle fixed to said turntable for manual rotation thereof when said worm pinion is disengaged from said worm gear.

1,379,240. DISPLAY-BOX. CHARLES BASHWINER, Brooklyn, N. Y. Filed Mar. 23, 1920. Serial No. 368,042. 5 Claims. (Cl. 206—44.)

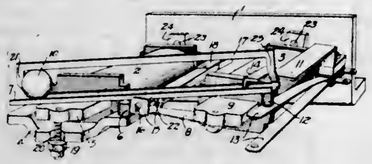


3. A cover of flexible material for a display box, having its central part slitted in substantially an H-shape to provide two opposed extensions which when bent one downwardly and the other outwardly of the cover provides an opening for reception of part of the body of the box, the extension which is bent downwardly serving to support the box body and the extension which is bent outwardly of the cover being adapted to be disposed within the body of the box over part of its wall.

1,379,241. METHOD OF PROTECTING SHIPS. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Feb. 19, 1920. Serial No. 359,911. 12 Claims. (Cl. 114—9.)

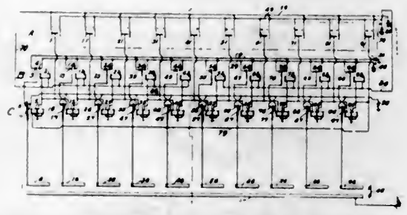
1. That method of protecting a vessel using mobile fuel comprising particles of carbonaceous substance and liquid hydrocarbon against shell or torpedo fire, which consists in congealing the fuel while in storage on the vessel and maintaining it so congealed.

1,379,242. ELECTROMAGNETIC DEVICE. WILLIAM O. BECK, Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1919. Serial No. 332,215. 3 Claims. (Cl. 200—97.)



1. In an electromagnetic switch, an energizing winding, a core, circuit controlling means, a track transverse to the axis of said core, an armature normally in inoperative relation to said core movable on said track, and means for moving said armature along said track into operative relation to said core to control said circuit controlling means.

1,379,243. TELEGRAPH SYSTEM. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 3, 1918. Serial No. 210,148. 7 Claims. (Cl. 178—63.)



3. A telegraph system comprising a line, sources of current of opposite polarity, transmitting means, means controlled by said transmitting means for establishing permutations of current impulses with said line, and means rendered effective upon the operation of said means by successive current impulses of the same polarity for grounding said line in substitution of successive repetition of current impulses of the same polarity.

1,379,244. ELECTRICAL-CONNECTOR DEVICE. REUBEN B. BENJAMIN and ALBERT V. BOETTER, Chicago, Ill., assignors to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1918. Serial No. 232,436. 2 Claims. (Cl. 240—78.)



1. A stand lamp comprising a tubular vertical support forming a passage for the conductors, a bowl-shaped metal member secured to said vertical support into which the conductors lead, said bowl-shaped member having a plurality of circular openings therein, a plurality of lamp sockets, each having a substantially cylindrical casing, and means for connecting each of said sockets to said bowl-shaped metal member, comprising an integral tubular sheet metal member having a portion flanged over the edge of one of said openings, and a flange portion surrounding said socket casing and having a detachable connection therewith.

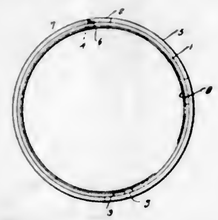
1,379,245. DIRECTION-INDICATOR FOR CLOSED AUTOMOBILES. WLADIMIR W. BUIMISTROFF, Washington, D. C. Filed Feb. 7, 1918. Serial No. 215,862. 2 Claims. (Cl. 116—50.)



1. An automobile direction indicator comprising a flat housing having a tube connected thereto, a circular housing connected to the tube, a signal slidable in said flat housing, a rod at one end connected to the signal slidable

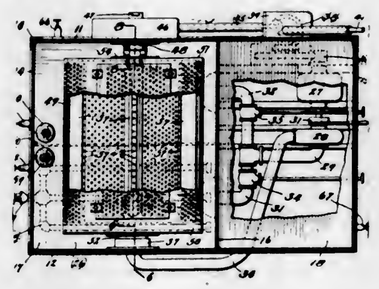
in the tube, means at the other end of said rod for limiting the outward movement of the signal, a shaft extending through the circular housing having a handle at one end and a wheel within the housing connected to the rod.

1,379,246. PISTON-RING. JAY EDGAR BUTLER, Baltimore, Md. Filed Apr. 8, 1920. Serial No. 372,295. 2 Claims. (Cl. 74—109.)



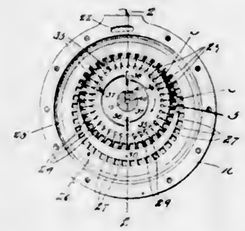
1. A piston ring comprising a one piece split ring member of cast metal having on its outer side a recess forming a circumferential shoulder so that the ring is of L shaped cross section, the said ring member having a positioning stop substantially opposite the ends of the ring member, a second one piece split ring member also of cast metal seated in the recess and having its ends adapted to engage the positioning stop, the outer faces of said ring members forming a single substantially cylindrical surface and a third member of spring metal also in the form of a split ring within and bearing on the inner face of said first ring member.

1,379,247. WASHING-MACHINE. SAMUEL D. CARPENTER, St. Louis, Mo., assignor of one-third to Frederick E. Lamb and one-third to Frank A. Campbell, St. Louis, Mo. Filed Oct. 11, 1920. Serial No. 416,124. 6 Claims. (Cl. 68—18.)



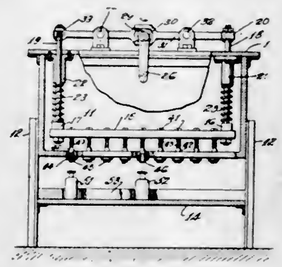
2. A washing machine comprising a housing having a washing compartment and a plurality of supply tanks positioned below said washing compartment, a cylinder arranged for operation in said washing compartment and adapted to receive fabrics, a plurality of hollow paddles disposed in said cylinder and arranged to lift said fabrics out of the liquid and then permit them to drop back when said cylinder is actuated, said hollow paddles being provided with discharge openings, a chamber in one end of said cylinder and communicating with said hollow paddles, said cylinder being removably journaled in said casing by trunnions, one of which is adapted to be seated in and have rotative engagement with the inner end of a driving shaft journaled in said casing, and the other trunnion being hollow and communicating with said cylinder chamber and adapted to be removably journaled in a bearing in said casing, connections between said hollow trunnion and said tanks, and means interposed in said connections for forcibly discharging the cleansing fluid through the discharge openings in said paddles.

1,379,248. ROTARY AIR-COMPRESSOR. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey Rotary Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 22, 1919. Serial No. 346,575. 3 Claims. (Cl. 230—30.)



1. In a fluid compressor, the combination of an external rotor and an internal rotor, a casing surrounding said external rotor, heads on each side of said casing, and a separate bearing ring loosely mounted for rotation between the periphery of said external rotor and said casing.

1,379,249. BOTTLE-FILLING MACHINE. GEORGE B. CHELIUS, Bayonne, N. J. Filed May 25, 1920. Serial No. 384,204. 1 Claim. (Cl. 226—126.)



In a machine of the class described the combination of a tank containing a fluid, a cover for said tank, a rectangular frame supported near the bottom of said tank, a plurality of spring controlled valves controlling openings in the bottom of said tank, a post secured to each corner of said frame, sleeves secured to said cover, said posts passing through said sleeves and maintained in alinement thereby, a handle, an eccentric operated by said handle and operating levers on the outside of said cover, said levers alternately elevating and lowering said frame as said handle is operated.

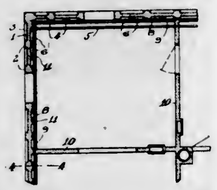
1,379,250. SKATE. CHARLES HASKELL CLARK, Berkeley, Calif., assignor to Clark Pedmobile Corporation, Brooklyn, N. Y. Filed Nov. 15, 1916. Serial No. 131,581. 2 Claims. (Cl. 46—51.)



1. A skate comprising a pair of offset wheels, the rear wheel being on the outside and the front wheel being on the inside of the skate, and a pneumatic tire mounted on

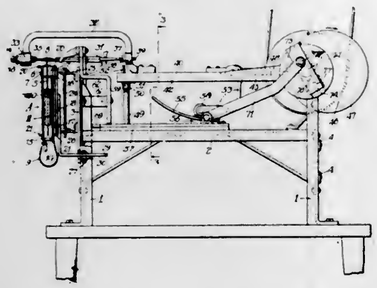
the rear wheel and adapted to give laterally to pressure to pull the rear wheel laterally of the skate to shift the direction of the axial line of the skate.

1,379,251. BUILDING-WALL. LOUIS DARGENTO, Rochester, N. Y. Filed Apr. 12, 1920. Serial No. 373,378. 1 Claim. (Cl. 72—127.)



A building wall comprising an outer cement layer formed *in situ* and having communicating spaces on its inner face, a water-proofing material bridging the spaces and covering those portions of the wall between the spaces, and a separately constructed inner layer of cement material formed *in situ* against the exposed face of the water-proof covering.

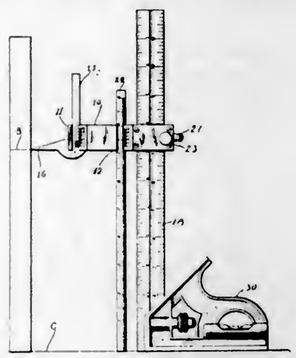
1,379,252. SAW-FILING MACHINE. WILLIAM DIEGEL, Manitowoc, Wis. Filed Jan. 16, 1920. Serial No. 351,965. 20 Claims. (Cl. 76—35.)



1. In a saw filing machine, the combination of a frame comprising saw supporting means, file supporting means comprising a slide, a base plate provided with bearings to which said slide is movably fitted, a shaft rotatably mounted in bearings on the machine frame, arms pivoted to said shaft to which said base plate is secured, connection between said shaft and file supporting slide adapted for imparting reciprocating movement to said slide, means associated with said reciprocating means for imparting pivotal movement to the base plate supporting arms, constructed and arranged for lifting said base plate on the back stroke of the file so that said file will clear the teeth of a saw supported in said machine and for releasing said base plate on the front stroke of the file to permit lowering thereof to effect engagement of the file carried thereby with the teeth of a saw being filed, and saw feeding means, substantially as described.

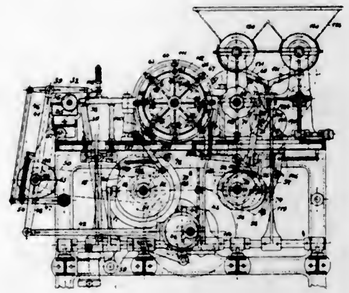
1,379,253. COMBINATION-GAGE. JOHN P. DORNEY, Watervliet, N. Y. Filed Dec. 3, 1919. Serial No. 342,162. 5 Claims. (Cl. 33—143.)

1. An attachment for measuring instruments comprising a body, said body being cut to form a large groove adapted to receive a supporting blade, and a small groove adapted to receive a measuring blade, a cover plate for said large groove, a cam journaled in said cover plate and body for securing said body in position and a rod



slidable longitudinally of said body and coöperating with said small groove for yieldingly holding said measuring blade in adjusted position.

1,379,254. MACHINE FOR MAKING CARTONS. GUNNAR CHRISTIAN EKSTRÖM, BROR ANDERS EMIL JOHNSON, and GUSTAF ÖRSTRÖM, Stockholm, Sweden, assignors To Aktiebolaget Gehr. Arehns Mekaniska Verkstad, Stockholm, Sweden, a Corporation of Sweden. Filed July 9, 1919. Serial No. 309,745. 10 Claims. (Cl. 93—44.)

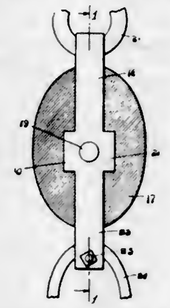


1. In a machine for making capsules from sheets of paper or the like and adapted to contain matches, cigarettes or similar articles, the combination with a fold table and side folders, of a plurality of mandrels, which are moved in an endless path and pass successively through the said fold table, a sheet of paper, etc., being folded around each of the said mandrels, a presser for each mandrel provided on the carrier of the mandrels, respectively and swingable around an axis extending longitudinally of the mandrel, said presser forcing the folded side edges of the sheet against the mandrel, means for forcing the presser against the mandrel and means for moving the presser from the mandrel, substantially as described and shown in the accompanying drawing.

1,379,255. PULLEY-BLOCK. JOHN H. FLYNN, Jr., Cincinnati, Ohio, assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Filed Mar. 1, 1920. Serial No. 362,491. 2 Claims. (Cl. 254—192.)

1. A pulley block construction comprising a substantially U-shaped sheet metal strap having lugs extending

from the sides thereof, rope connecting elements at the ends of the strap, and a block having the material thereof



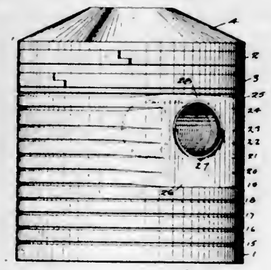
embedding the lugs and sides of the strap between the rope connecting elements attached thereto.

1,379,256. NECKTIE AND METHOD OF MAKING THE SAME. THEODORE FRUCHTMAN, New York, N. Y. Filed Apr. 27, 1920. Serial No. 376,945. 4 Claims. (Cl. 2—11.)



1. A method of making a necktie or the like which consists in sewing the longitudinal edge of a piece of filling material to a longitudinal edge of the rear surface of a facing, then doubling over the said facing and filling material so that the facing is folded inside out, then stitching together the edges of the doubled-over facing and filling, and then turning the article thus made inside out, a sufficient portion of the said filling being left unsecured to the said facing, so that the said filling material forms a loose, tubular structure within the said facing material.

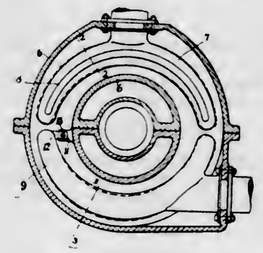
1,379,257. PISTON. WILLIAM R. GORHAM, Alameda, Calif. Filed Apr. 23, 1917. Serial No. 163,817. 4 Claims. (Cl. 74—108.)



1. A piston having exterior depressions contiguous to the wrist pin bearings therein and grooves angular in cross section and oppositely disposed leading into said depressions.

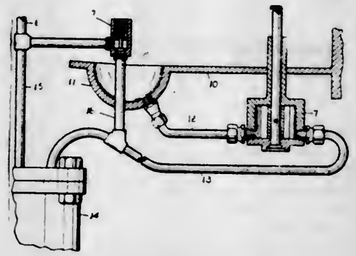
1,379,258. STEAM-TURBINE. HENRY LEWIS GUY, Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company, a Company of Great Britain. Filed Nov. 16, 1918. Serial No. 262,877. 9 Claims. (Cl. 253—78.)

1. In combination in a steam turbine, a removable nozzle box stiffened longitudinally thereof, the stiffened portion being so located with relation to the box that the box when in position within the turbine will have greater



flexibility in a plane perpendicular to the turbine axis than in a plane parallel thereto.

1,379,259. FILTERING MEANS FOR LUBRICATING SYSTEMS. EDMUND E. HANS, Kalamazoo, Mich. Filed Apr. 19, 1920. Serial No. 375,033. 2 Claims. (Cl. 184—6.)



1. In a lubricating system for internal combustion engines, the combination with the parts to be lubricated, of a crank case constituting an oil reservoir adapted to receive the lubricant escaping from such lubricated parts, a sump, a filter, a pump with its intake connected to the sump and delivering to the said filter, a lubricant supply pipe from said filter to the parts to be lubricated, a by-pass from the delivery pipe of said pump to the said lubricant supply pipe, and a spring loaded valve in the said by-pass, whereby the by-pass operates automatically under abnormal pressure.

1,379,260. PROCESS FOR THE CONCENTRATION OF SULFURIC ACID. EINAR HANSEN, Paris, France. Filed Sept. 4, 1918. Serial No. 252,652. 2 Claims. (Cl. 23—1.)

1. The process of concentrating sulfuric acid which consists in bringing into direct contact with the sulfuric acid hot gas containing nitric oxid, subjecting the gas resulting therefrom to condensation and then conducting it into an absorption system for nitrous gas of a well-known kind.

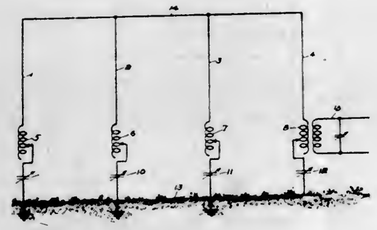
1,379,261. FIRE-BAR FOR FURNACES. JOSEPH ALBERT HILL, Sheffield, England. Filed Dec. 21, 1918. Serial No. 267,789. 1 Claim. (Cl. 126—167.)



A fire-bar for furnaces comprising a body portion of a general wedge-shaped formation in vertical section taper-

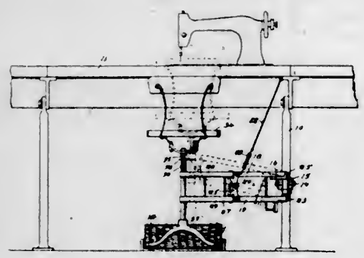
ing inward toward the bottom and having the lower edge of the central portion rounded, the body being provided with a longitudinal bore throughout its length and also provided with a plurality of vertical transverse bores communicating with the longitudinal bore and with the upper and lower surfaces of the bar, and depending end flanges upon said body portion having, the lower edges rounded and adapted to fit snugly in a supporting conduit so as to prevent longitudinal movement of the bar.

1,379,262. RADIO-RECEIVING ANTENNA. STANTON C. HOOPER and GEORGE H. CLARK, Washington, D. C. Filed Sept. 16, 1919. Serial No. 324,228. 3 Claims. (Cl. 250—11.)



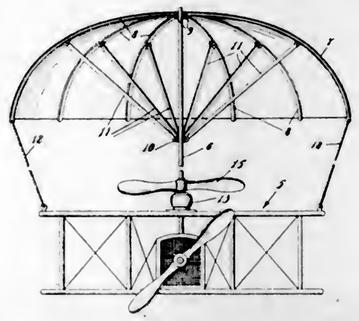
1. In a radio telegraphic and telephonic receiving system, the combination of a plurality of antennæ located at approximately equal distances apart on a line bearing in the direction of the distant transmitting station, means for tuning to resonance each antenna to the incoming wave length and a conductive connection joining the elevated extremities of said antennæ, the lower extremities of which are grounded and means for integrating the increments of energy collected by the individual antennæ in a receiving apparatus substantially as described.

1,379,263. CHAIR. CHARLES JELLINEK and DAVID STERN, New York, N. Y. Filed Aug. 9, 1919. Serial No. 316,305. 6 Claims. (Cl. 155—81.)



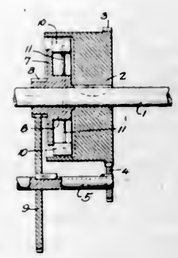
1. In a device of the class described, the combination of a bracket supporting member provided with an elevating cam, a chair elevating bracket pivoted for horizontal movement about a vertical axis and movable vertically in its swinging movement across said cam, said bracket formed of two vertically spaced arms with one end of each pivotally connected to the supporting member, an X-connection pivotally coupling the free ends of said arms, a swinging chair supporting arm pivoted to said X-coupling for horizontal movement relative thereto and a spring acting on said supporting arm and said bracket to swing the arm toward the supporting member.

1,379,264. AIRPLANE SAFETY APPLIANCE. HUBERT JULIAN, Montreal, Quebec, Canada. Filed Mar. 9, 1921. Serial No. 450,801. 4 Claims. (Cl. 244—21.)



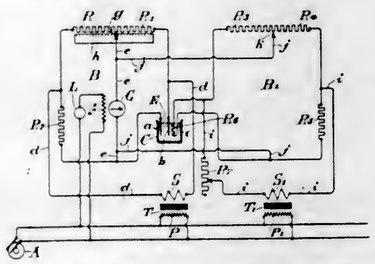
1. The combination of an airplane and an extensible safety attachment secured thereto, a fan for moving the safety attachment to its extended position, and an independent motor for actuating said fan.

1,379,265. GOVERNOR. FREDERICK J. KALTEYER, Philadelphia, Pa., assignor to Electrostrop Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 17, 1920. Serial No. 404,232. 3 Claims. (Cl. 188—185.)



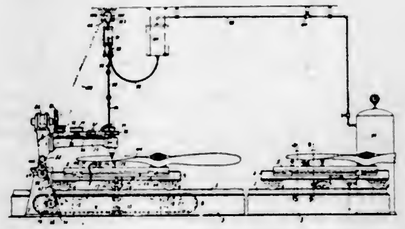
1. A governor comprising a brake-drum, a hub mounted for free rotation within the drum, a disk connected with the hub and provided with dovetail tongues on its face, shoes mounted relatively to the hub and formed with dovetail grooves to receive the tongues of the disk, and springs connecting the shoes and hub.

1,379,266. COMPENSATION METHOD AND APPARATUS. EARL A. KEELER, Norristown, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 5, 1920. Serial No. 379,097. 26 Claims. (Cl. 175—183.)



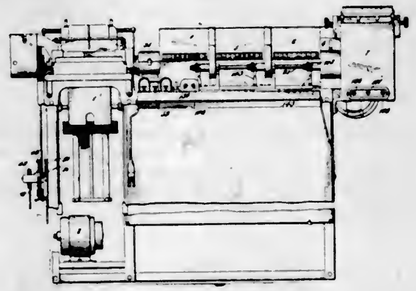
2. The method of measuring the conductivity of a material while at a temperature differing from a predetermined temperature, which consists in subjecting an indicating instrument to an electro-motive-force dependent upon the conductivity of said material, independently producing an electro-motive-force whose magnitude is dependent upon the departure of said material from said predetermined temperature, and impressing said second named electro-motive-force upon said instrument simultaneously with said first named electro-motive-force.

1,379,267. REPRODUCING-MACHINE FOR MAKING AEROPLANE-PROPELLERS AND THE LIKE. JOSEPH F. KELLER, New York, N. Y. Filed Jan. 11, 1918. Serial No. 211,368. 7 Claims. (Cl. 90—13.1.)



1. In a machine of the class described, a tracer and cutter frame having a pivotal axis, a tracer and cutter held in said frame, a track at right angles to said axis, a table for the pattern and work movable upon said track, supporting means for said axis entirely outside the path of the table, driving means for regularly moving the table to and fro upon the track adjacent to the tracer and cutter, mechanism for automatically and similarly moving the surfaces of the pattern and work past the tracer and cutter at the end of each to or fro movement of the table and in a direction parallel to the aforesaid pivotal axis, and manually controlled clutch means for connecting or disconnecting the driving means from the table.

1,379,268. PRINTING-TABULATOR. CLAIR DENNISON LAKE, Binghamton, N. Y., assignor to The Tabulating Machine Company, a Corporation of New Jersey. Filed Dec. 29, 1919. Serial No. 348,069. 14 Claims. (Cl. 235—58.)



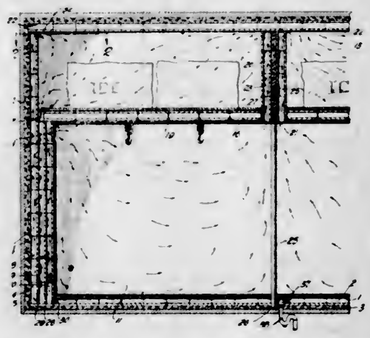
1. The combination with a tabulating machine of a printing or listening attachment, intermediate mechanism for connecting it with or disconnecting it from the tabulator mechanism and means for causing the tabulator to run at reduced speed under the control of the means which connect the listing attachment with said tabulator.

3. The combination with a tabulating machine of a printing or listing attachment, intermediate mechanism for connecting the same with or disconnecting it from the tabulator mechanism, and means controlled by the listing attachment to prevent the tabulator from operating while said attachment is in operation for the printing or listing.

4. The combination with a tabulating machine of a printing or listing attachment, intermediate mechanism for connecting the same with or disconnecting it from the tabulator mechanism, and means for resetting the tabulator counter wheels to zero operated by and during the operation of the total printing means in said listing attachment.

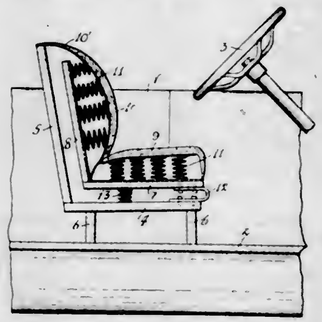
5. The combination with a tabulating machine of a printing or listing attachment, intermediate mechanism for connecting the same with the tabulator mechanism or disconnecting it therefrom, and mechanism in said attachment controlled by the tabulator counter wheels, and adapted to operate independently of the listing means for printing the totals indicated by the adjusted position of the tabulator counter wheels.

1,379,269. COLD-STORAGE STRUCTURE. ANDREW C. LEGG, Birmingham, Ala., assignor to R. D. Johnston, Jr., Birmingham, Ala. Filed Aug. 13, 1917. Serial No. 185,965. 13 Claims. (Cl. 62—46.)



5. In a refrigerating apparatus, a cold storage chamber, an overhead ice chamber, means to conduct cold air from the ice chamber to the base of walls of the storage chamber, two sets of conduits to split said cold air circulation at the base of said walls and return part of it through one set directly to the ice chamber and part of it through said walls into the upper part of the storage chamber, and warm air return ducts opening through the storage chamber roof and terminating in the top of the ice chamber.

1,379,270. AUTOMOBILE-SEAT. JAMES H. McCULLOUGH, Jr., San Jose, Calif. Filed Mar. 1, 1920. Serial No. 362,508. 3 Claims. (Cl. 155—54.)



1. An automobile seat, comprising a fixed frame with bottom and back; a second frame with bottom and back

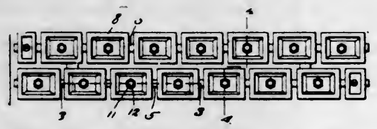
nested in and spaced from the fixed frame; a bendable U-strap connection between the forward edges of the two frames forming a horizontally disposed yielding joint therebetween; and a resilient member between said frames rearwardly of said connection.

1,379,271. CONTENTS-INDICATOR FOR CONTAINERS. AUGUSTIN W. MALINOWSKY, Detroit, Mich. Filed Dec. 8, 1919. Serial No. 343,260. 2 Claims. (Cl. 73—82.)



1. In combination, a collar having a transverse diaphragm and a pair of parallel plates extending upwardly from the diaphragm, a pin extending across between the plates and a roller mounted on the pin, a tape extending over the roller, a float connected to one end of the tape and a weight connected to the other end, a cylindrical guide for the weight and a guide connecting to the lower end of the collar and having a partition to separate the weight and float, and a cap over the upper end of the collar and provided with a window through which the tape may be observed.

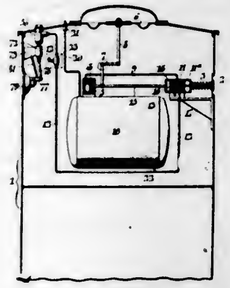
1,379,272. BOILER-GRATE. ARMANDO MASCI, Genoa, Italy. Filed July 23, 1920. Serial No. 398,501. 1 Claim. (Cl. 126—168.)



A grate comprising a plurality of parallel and laterally spaced grate bars, and fuel receiving pockets mounted on top of said bars, said pockets consisting of shallow trays having bottom recesses to straddle the bars, the top edges of the bars having recesses to seat bottom portions of the trays, stems carried by the bars and extending through the bottoms of the trays, said stems having heads at their lower ends, and the bars having recesses to seat the stems, said recesses opening into the second-mentioned recesses, and having enlarged bottom portions to seat the heads of the stems, and nuts screwed on said stems for clamping the trays down on the bars.

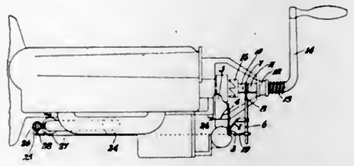
1,379,273. DEVICE FOR CAUSING SUBMERSIBLE BODIES TO RISE OR SINK. ELOF H. MEDÉN, Elizabeth, N. J., assignor to American Gas-Accumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Aug. 17, 1917. Serial No. 186,701. 20 Claims. (Cl. 102—3.)

1. In apparatus of the character described, the combination of a receptacle carried thereby which is adapted to contain a liquid under pressure, means for maintaining the said apparatus at predetermined depths below the surface of a body of water, means for connecting the interior of said receptacle with the said first named means,



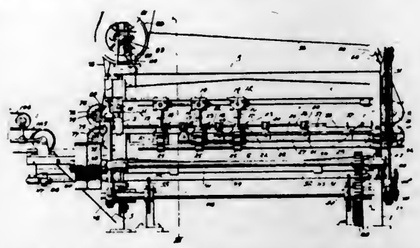
mechanism which is adapted to cause the said apparatus to rise or sink in the said body of water and means for supplying the said liquid under pressure to the said mechanism for causing the operation thereof.

1,379,274. AUTOMATIC CHOKE-VALVE-ACTUATING DEVICE. STEPHEN E. MERRILL, Port Richmond, N. Y. Filed June 9, 1920. Serial No. 387,704. 5 Claims. (Cl. 123—180.)



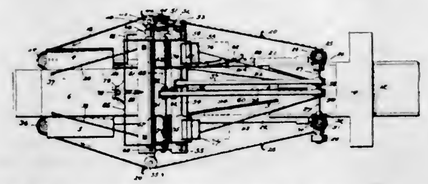
1. An attachment for automobile engines, provided with a choke valve and hand operated starting crank shaft, movable longitudinally into and out of operative relation with the engine shaft, comprising a supporting bracket provided with means for attaching it to a stationary part of the engine, a lever pivotally secured to said bracket, a yoke pivotally connected to one end of said lever, a sleeve engaged by said yoke, said sleeve being provided with means for securing it to the starting crank shaft, for rotation therewith, said lever being provided adjacent to its other end with means for connecting it to the choke valve operating connection, whereby the longitudinal movement of the starting crank shaft into operative relation with the engine shaft will automatically close the choke valve.

18,379,275. MACHINE FOR NOTCHING BOX-BLANKS AND THE LIKE. JOHN A. MOORE, Louisville, Ky., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Jan. 5, 1920. Serial No. 349,584. 18 Claims. (Cl. 93—58.)



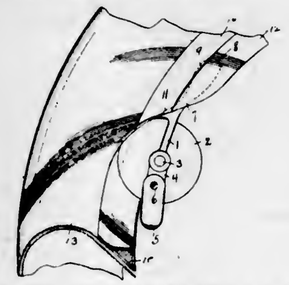
1. In a machine for notching blanks, the combination of a supporting frame; at least three cross beams supported for adjustment lengthwise of the frame; means for raising and lowering the beams; knives carried by the beams; a die underlying each knife and adjustable as to position with the knives; and means for feeding the blanks over said dies.

1,379,276. MACHINE FOR SEALING BOXES OR CARTONS. JOHN A. MOORE, Louisville, Ky., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed June 14, 1920. Serial No. 388,831. 13 Claims. (Cl. 93—7.)



12. In a machine for sealing cartons having flaps, the combination of a runway; means for advancing the cartons therethrough; means for applying paste to the carton elements which are to be brought into adhesive relation; means for turning opposite flaps inwardly; a tongue lying in the runway beneath the path of the flaps to be inturned; and an upstanding bar carried by the tongue and preventing overlapping of the proximate edges of the flaps which are being inturned.

1,379,277. TURN-UP TOOL. CHARLES W. MORRIS, Youngstown, Ohio. Filed Feb. 27, 1920. Serial No. 361,625. 2 Claims. (Cl. 154—9.)



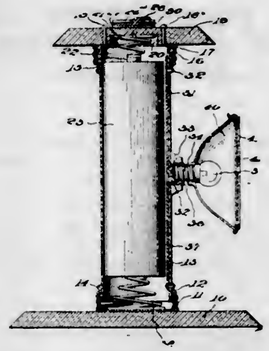
1. In a device of the class described, a body portion, a rotating disk secured to the underside of same, an arm with an operating handle attached thereon, a flattened downturned arm, a lip formed on the side of said arm, a turned up edge on the end portion of said flattened downturned arm, substantially as described for the purpose set forth.

1,379,278. MATTING. TOKUJI NAEMURA, Sanchome, Kobe, Japan. Filed May 15, 1920. Serial No. 381,678. 2 Claims. (Cl. 139—9.)



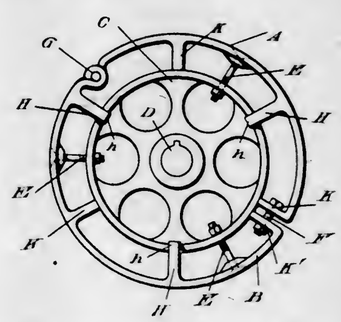
1. A matting woven with warps and wefts each of which consisting of a comparatively wide cord with cords for filling up interstices one on each side, each set of the three cords of the warp and weft being woven as one, and in which transverse strips are formed by replacing some of the wefts consisting of three cords with a number of single wefts, substantially as and for the purposes hereinbefore set forth.

1,379,279. LAMP. RALPH OSBORN, Randolph, Nebr. Filed May 29, 1919. Serial No. 300,642. 1 Claim. (Cl. 240—8.5.)



In an electric lamp, the combination of a relatively large base, a threaded socket securely attached to said base, a shell of insulating material adapted for engagement with said socket, a lamp socket intermediate the ends of said shell, a top detachably connected to said shell and of smaller diameter than the base, a battery within the shell, helical springs supporting said battery and engaging opposite terminals of said battery for conducting the current, a lamp bulb carried by the lamp socket, means for conveying the current to said lamp bulb, and a switch carried by said top for making and breaking the current.

1,379,280. ADDITIONAL PULLEY-RIM. GEORGE OTTE, Sand Springs, Mont. Filed June 2, 1920. Serial No. 385,879. 3 Claims. (Cl. 64—17.)

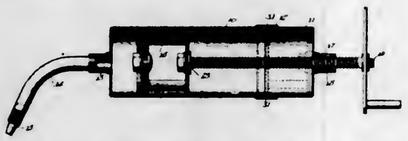


1. A pulley attachment of the class described comprising an auxiliary rim provided with spokes, having yoke shaped bearings adapted to bear upon the tread of a standard pulley and embrace its edges, said rim having also clamping bolts connecting said rim and tread and short spokes adjacent to said bolts adapted to bear upon the tread of the standard pulley.

1,379,281. GREASE-GUN. JOHN OWENS, Kingston, Iowa. Filed July 11, 1919. Serial No. 310,094. 2 Claims. (Cl. 221—79.)

1. A portable hand grease gun consisting of a barrel comprising a one-piece major part free of projections on its exterior adapting it when dipped into hard grease to be readily cleansed exteriorly and a one-piece head part with an opening through its top and a piston having a screw thread piston rod with a handle thereon for turn-

ing the same, the minor part of the barrel being sufficiently long to house the piston and being telescopically



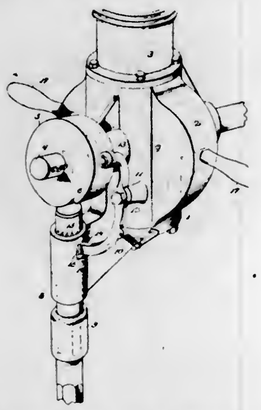
connected to the major part of the barrel whereby the piston may be forced smoothly from the minor to the major part of the barrel by the screw.

1,379,282. LUBRICATING MEANS. ROBERT JAMES PATON, Bedford Park, London, England. Filed Nov. 8, 1919. Serial No. 336,678. 7 Claims. (Cl. 184—1.)



6. The combination with a laminated spring, of an oil reservoir mounted on the spring and provided with an opening in one of its walls, a wick extending through said opening in the reservoir and having a portion thereof in contact with a side of the spring, an oil-proof cover for the wick and spring, and a gaiter inclosing the reservoir, wick and spring, the free edges of such gaiter being tubular and provided with laces that can be drawn tight to bring the tubular edges together and secure the gaiter in position.

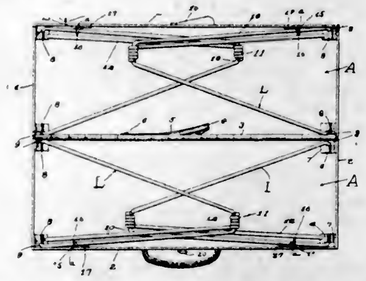
1,379,283. ROCK-DRILLING MACHINE. EWART ELIAS PETERSON, Seattle, Wash. Filed Sept. 2, 1920. Serial No. 407,663. 5 Claims. (Cl. 255—41.)



1. An apparatus of the class described comprising a motor, a cam member operated thereby, an operating spindle arranged in line with the cam and maintained in contact with the cam through the weight of the apparatus, the cam being formed to impart an impact to the spindle through such weight in each rotation of the cam.

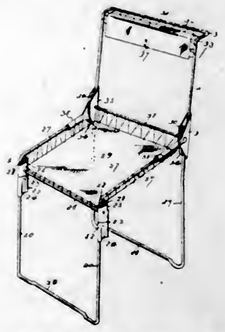
1,379,284. FOLDING TABLE. JUDSON C. PEWTHER, Denver, Colo. Filed Sept. 15, 1920. Serial No. 410,507. 3 Claims. (Cl. 45—116.)

3. A device of the character described comprising two hingedly connected sections foldable into closed relation or extended to bring the sections substantially into coplanar relation, a supporting leg operatively engaged with each end portion of each of the sections, said supporting leg being substantially V-shaped in form and having swinging movement with respect to the section, a brace



member having one end portion pivotally engaged with the apex portion of the leg, and coacting means carried by the brace member and the section whereby the same may be connected one to the other.

1,379,285. FOLDABLE ARTICLE AND JOINT THEREFOR. JUDSON C. PEWTHER, Denver, Colo. Filed Sept. 15, 1920. Serial No. 410,508. 9 Claims. (Cl. 155—148.)



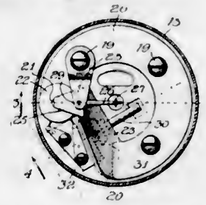
1. In a foldable article, a sheath approximately U-shaped in cross section and having a pivot member extending across it and spaced from the bottom thereof, two rods disposed at opposite ends of the sheath and in overlapping relation to each other, the rods at their adjacent ends being formed with elongated loops through which the pivot pin passes and whereby the rods may be shifted longitudinally with reference to the pivot pin or rotated thereon, the rods each having a diameter approximately equal to the distance between the pivot pin and the bottom of the sheath.

1,379,286. FOLDING COT. JUDSON C. PEWTHER, Denver, Colo. Filed Oct. 4, 1920. Serial No. 414,573. 10 Claims. (Cl. 5—5.)



1. A foldable cot comprising a body support foldable on transverse lines, a pair of side rails rotatably connected to said body support and formed of leg supported sections pivoted together on normally vertical axes, and releasable means for normally holding the two rails against either rotary or pivotal movement, said rails being rotatable upon release of said holding means to dispose their pivots horizontally for folding.

1,379,287. TELEPHONE INSTRUMENT. FRANK J. REICHMANN and JOHN PRESS, Chicago, Ill.; said Press assignor to said Reichmann. Filed June 21, 1918. Serial No. 241,134. 21 Claims. (Cl. 179—117.)



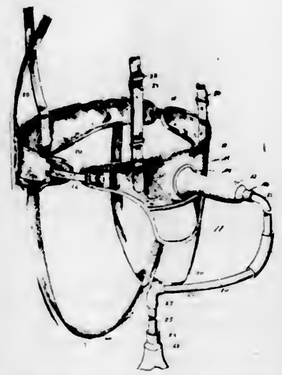
1. In a telephone instrument, a magnet, an armature movably supported upon one pole of the magnet and extending into operative relation with the other pole thereof, and means for changing the form of the magnet to alter the relative positions of the poles.

1,379,288. CUFF-HOLDER. EDWARD R. ROEHM, Detroit, Mich. Filed Oct. 2, 1919. Serial No. 327,913. 4 Claims. (Cl. 24—102.)



1. A device of the character described comprising means adapted to be engaged with the button holes of a cuff portion of a garment and a resilient loop attached at its ends to said button hole engaging means to extend inwardly therefrom in an inclined position with said loop embracing the wearer's arm and supported at its intermediate portion thereby independently of said garment and cuff portion, said loop being of a length to engage the garment at the side thereof opposite said button holes upon turning movement of said loop.

1,379,289. URINARY APPARATUS. EDWARD C. ROGERS, St. Louis, Mo. Filed Mar. 26, 1921. Serial No. 456,032. 1 Claim. (Cl. 128—295.)



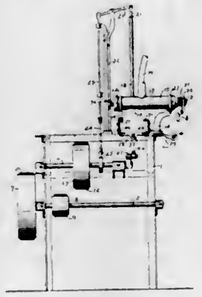
A urinary apparatus comprising a supporting belt, the front of which is formed with an opening, a stiff rubber nipple open at both ends and having a larger end provided with an annular internal groove, a soft rubber nipple detachably fitted on to the stiff nipple, connections between the soft nipple and a suitable container, the surrounding wall of the belt opening being disposed against the said wall of the opening and in the groove of the nipple whereby said nipple is firmly held to the belt by the water-tight joint.

1,379,290. PROPELLING MECHANISM FOR WATER-CRAFT. EDWARD J. SCHNEITER, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,309. 4 Claims. (Cl. 170—153.)



1. In water-craft propelling device, the combination of a drive shaft, a hub secured to said shaft, bearing sleeves on said hub, arms extending at right angles with said shaft and axially rotatable in said sleeves, blades secured at one edge to said arms, cam fingers extending from said arms, a stationary cam plate secured in the path of said cam fingers, the engagement of said fingers with said cam plate causing said arms to be held in position to hold the respective blades at right angles with the cam plate in propelling position, the pressure of the water against said blades causing them to trail through the water after release of the respective cam fingers from said cam plate.

1,379,291. DISPENSING APPARATUS. JOHN W. STIGLITZ, San Jose, Calif. Filed July 24, 1919. Serial No. 312,909. 9 Claims. (Cl. 226—94.)

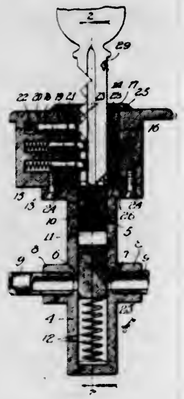


1. A device of the character indicated, including a pair of telescoped hollow cylinders revolubly mounted with relation to each other, the outer cylinder having a discharge opening and an inlet opening formed therein and a pump operatively mounted thereon to coöperate with said openings for receiving and discharging material, and the inner cylinder having a discharge opening and an inlet opening formed therein and positioned to register alternately with the corresponding openings in the outer cylinder, means for causing the alternate registration of said openings, means coacting with said last mentioned means for positioning a receptacle in operative relation to the discharge opening of said outer cylinder, and means coacting with said last mentioned means for causing the discharge operation of said pump.

1,379,292. THEFT-PREVENTING MEANS FOR VEHICLES. MIECZYSLAW J. SZAMEIT, Chicago, Ill., assignor of one-half to John Stelk, Chicago, Ill. Filed Jan. 18, 1918. Serial No. 212,392. 11 Claims. (Cl. 251—6.)

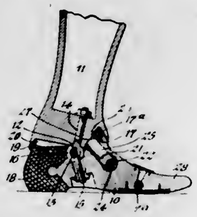
1. In a device of the character set forth, the combination of a casing adapted to be interposed in a fuel conduit,

a valve in said casing movable into and out of position for controlling the flow of fuel through said conduit, a key-controlled member containing a key-way and through



which a key is insertible into engagement with said valve for operating the latter by longitudinal movement of the key, and means operating when said key is turned to hold said valve in open position.

1,379,293. ARTIFICIAL LEG. CHESTER B. WINN, Buffalo, N. Y. Filed Mar. 12, 1920. Serial No. 365,202. 2 Claims. (Cl. 3—7.)



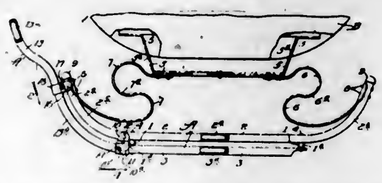
2. An artificial leg, comprising a leg-member, a foot joinated thereto by an ankle-journal, the foot being provided in front of said journal with a socket, a cushion seated in said socket, and a rigid plunger guided in said socket and interposed between said cushion and the lower front portion of the leg-member.

1,379,294. PREPARATION OF MEDIA FOR YEAST PROPAGATION AND FERMENTATION. ROBERT WAHL, Chicago, Ill. Filed Feb. 18, 1920. Serial No. 359,511. 8 Claims. (Cl. 195—32.)

1. The process of preparing media for yeast growth and fermentation, which consists in forming a malt containing mash, holding it at a temperature suitable for peptonization continually supplying thereto during peptonization lactic acid in amounts such that no free lactic acid remains in the mash during peptonization or at its termination, subsequently raising the temperature to a degree suitable for saccharification and saccharifying the mash.

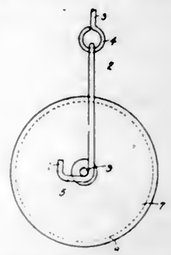
1,379,295. PERAMBULATOR. ARTHUR J. ADAMS, Bay City, Mich., assignor to The Fulton Company, Bay City, Mich., a Corporation of Michigan. Filed Feb. 12, 1919. Serial No. 276,585. 8 Claims. (Cl. 280—47.)

1. The combination of a running-gear frame equipped with axles and provided with spring-supports which extend rearwardly and upwardly from the rear axle, sockets permanently connected with the running-gear frame in the rear of the rear axle, a handle having side bars, whose lower ends extend into said sockets and are detachably connected therewith, clips permanently connected



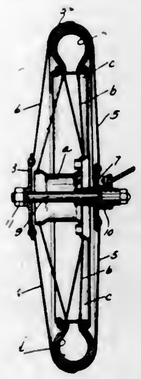
with the upper portions of said spring-supports, and devices mounted on the side bars of the handle and detachably connected with said clips.

1,379,296. BEARING. JOHN T. AUSTIN, Hartford, Conn., assignor to The Austin Organ Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 4, 1920. Serial No. 408,215. 2 Claims. (Cl. 64—21.)



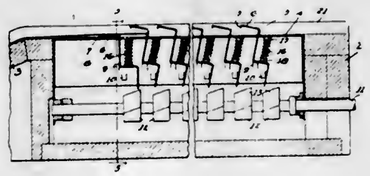
1. A bearing comprising a forked flexibly mounted bearing member the branches of the fork having arms, a roller situated between said branches, having a stud extending through it and supported for movement by said arms.

1,379,297. TIRE-CARRIER. EMIL R. DRAVER, Richmond, Ind. Substitute for application Serial No. 157,971, filed Mar. 28, 1917. This application filed Jan. 3, 1921. Serial No. 434,520½. 4 Claims. (Cl. 224—29.)



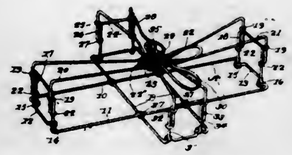
1. A tire carrier comprising a supporting member, a spindle fixed in relation thereto, a back plate having a curved peripheral flange adapted to fit about a tire, a front plate detachably applied to the projected end of said spindle, and having a curved peripheral flange adapted to telescope with the flange of said back plate, and means for securing said front plate in different lateral adjustments relative to said back plate.

1,379,298. BALLOT-ASSEMBLING MECHANISM. NILS F. GARBO, Minneapolis, Minn. Filed Mar. 20, 1916, Serial No. 85,524. Renewed Oct. 29, 1920. Serial No. 420,581. 8 Claims. (Cl. 129—35.)



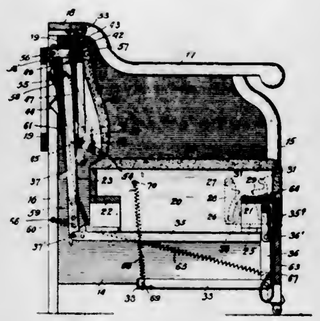
1. The combination, with a casing having a flat surface upon which a series of flexible sheets may be placed, of a series of uniformly spaced, spring-controlled clamping dogs arranged to extend above said surface, and means for holding said dogs in an elevated position.

1,379,299. BILL-FILE. FRANK S. GRIZZEL, Sharps Chapel, Tenn. Filed Jan. 8, 1921. Serial No. 435,869. 2 Claims. (Cl. 24—17.)



2. A package binder comprising a pair of crossed rectangular frames of different dimensions secured together, yokes pivotally connected to the ends of the frames, yokes slidably adjustable on the first yokes, the bight portions of the second-named yokes extended angularly, and levers on certain of the second yokes having ends engageable with said bight portions.

1,379,300. SOFA-BED. JULIUS J. GRUENFELD, Jr., Chicago, Ill. Filed Feb. 5, 1917. Serial No. 146,596. 4 Claims. (Cl. 5—48.)



3. In a sofa bed, the combination of a sofa frame, a bed-frame formed of foldably connected sections, and a pivotal connection between the frames comprising a pair of pivot studs and a plate having intersecting arcuate slots therein for the studs respectively, formed so the studs will be caused to successively act as a stationary fulcrum for the bed, the upper ends of the plates being open for the insertion and removal of the studs.

1,379,301. BURNER. PAUL H. HAMILTON, Cleveland, Ohio. Filed Mar. 13, 1919. Serial No. 282,299. 1 Claim. (Cl. 158—112.)



A burner comprising a central element composed of a rectangular frame, the top side whereof is substantially V-shaped in cross section and from the opposed edges whereof rise diverging baffles, said element including a mixer which opens through the bottom side of the frame, the end walls of the frame having their middle portions inset to produce external transverse grooves, a recessed cheek plate applied to each side of the frame, the cheek plates having notches registering with the aforesaid grooves and having each a series of inwardly projecting vanes along its upper edge portion, the aforesaid baffles having vanes alining substantially with those of the cheek plates, and means extending through the aforesaid grooves and notches for holding the cheek plates together and in clamping relation to the frame, the cheek plates incorporating shields protecting the holding means from the heat of the flame.

1,379,302. ANTISANDER FOR PISTON-PUMPS. JOE H. HART, Fillmore, Calif. Filed Jan. 18, 1921. Serial No. 438,094. 4 Claims. (Cl. 103—64.)



1. The combination with a well casing having an imperforate portion and a perforate portion; of a pump having a foot valve and an orifice therefor; a shell connected to the pump and extending down below the pump within the imperforate portion of said casing, and having an inlet at its lower end, and being otherwise closed to the interior of the casing, and means arranged within the casing between said pump and said inlet and adapted to restrict the flow of liquid from the space within the shell to the foot valve orifice: said shell being of considerable length below the perforations of the casing to allow solids to settle inside the casing substantially as and for the purpose set forth.

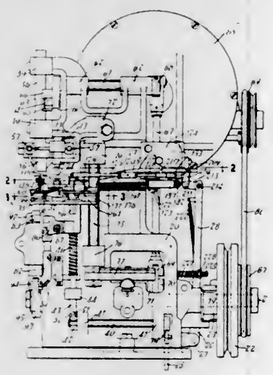
2. The combination with a well casing having an imperforate portion and a perforate portion; of a pump

having a foot valve and an orifice therefor; a shell rounded at its lower end and connected to the pump and extending down below the pump within the imperforate portion of said casing, and having an inlet at its lower end, and being otherwise closed to the interior of the casing; and means arranged within the casing between said pump and said inlet and adapted to restrict the flow of liquid from the space within the shell to the foot valve orifice; said shell being of considerable length below the perforations of the casing to allow solids to settle inside the casing substantially as and for the purpose set forth.

3. An anti-sander comprising a shell having an inlet at the bottom; a sump inside the shell and closed at the bottom; a hood to which the shell and the sump are connected; there being a passage between the shell and the sump and an outlet from such passage into the sump; and a working barrel having a foot valve open to the sump; the orifice of the foot valve being of less cross-sectional area than the orifice of said outlet; and the cross-sectional area of the orifice of said outlet being less than the cross-sectional area of the orifice of the inlet at the bottom of the shell.

4. An anti-sander comprising a shell having an inlet at the bottom; a sump inside the shell and closed at the bottom; a hood to which the shell and the sump are connected; there being a passage between the shell and the sump and an outlet from such passage into the upper part of the sump; and a working barrel having a foot valve open to the sump.

1,379,303. LACING-STUD-SETTING MACHINE WITH AUTOMATIC STOP. ARTHUR R. HAVENER, Wayland, Mass., assignor to American Lacing Hook Co., a Corporation of New Jersey. Filed Nov. 23, 1918. Serial No. 263,833. 58 Claims. (Cl. 218—17.)



46. In mechanism for applying lacing studs to shoe uppers, means for imparting a step-by-step feeding movement to the upper, means for feeding a reinforcing strip a distance substantially different from the travel of each movement of said upper, means to secure studs to said upper and said strip, means for cutting the strip after each stud is applied, and means including said strip feeding means to automatically stop said machine at the end of a predetermined number of stud setting operations.

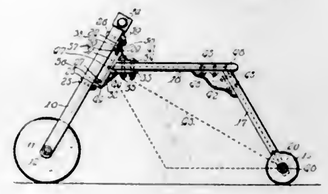
1,379,304. WINDOW-SASH. HARRY P. HOMERS, New Haven, Conn. Filed Oct. 11, 1920. Serial No. 416,114. 2 Claims. (Cl. 20—43.)

1. The combination with a bottom-hung window sash of a stop plate secured at the upper end of one side thereof, said stop plate formed on its inner edge with a series of stops, a plate secured to the window casing, a lever pivotally connected with said plate, provided at its lower end



with a lug adapted to engage with the stops on the said stop plate to be entirely disengaged therefrom.

1,379,305. CHILD'S CONVERTIBLE VEHICLE. LUTHER JOHNS, Oak Park, Ill. Filed Mar. 19, 1920. Serial No. 367,103. 5 Claims. (Cl. 208—165.)

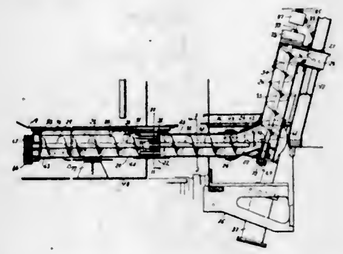


1. A convertible vehicle including a steering post, a front wheel mounted therein, rear wheels, an intermediate structure having two main parts in rigid and fixed angular relation to each other, one of said parts comprising a foot rest in one operative position of the structure and the other part comprising a seat in an operative position of the structure which is upside-down with respect to the firstly-mentioned operative position, and means for holding the intermediate structure in each of said operative positions, said means including pivoting elements permanently held on the steering post, pivoting elements permanently held on the front end of the seat part and which coöperatively interfit with the firstly-mentioned pivoting elements when the intermediate structure is in each of said operative positions, means for holding the interfitting pivoting elements coöperatively together when the intermediate structure is in each of said positions, and means for holding the rear wheels at the rear end of the intermediate structure.

1,379,306. LOCOMOTIVE-STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y., a Corporation of Pennsylvania. Original application filed Sept. 2, 1915, Serial No. 48,619. Divided and this application filed Feb. 19, 1917. Serial No. 149,564. 12 Claims. (Cl. 193—13.)

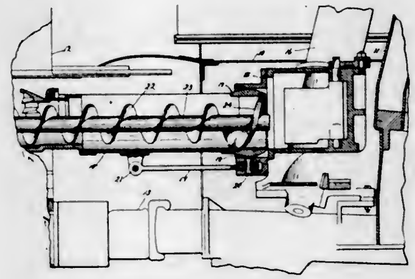
1. In combination, a locomotive having a firebox, a tender having a fuel bin, a continuous conduit leading forward horizontally below the bin and upwardly and delivering in to the fire box through the rear wall thereof,

transferring screws in each of the named sections of the conduit the shaft bearings of the screws being outside of



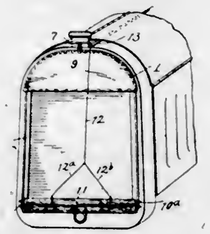
the conduit passage, and means for driving the screws and being connected therewith exteriorly of the conduit.

1,379,307. LOCOMOTIVE-STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Aug. 1, 1918. Serial No. 247,762. 6 Claims. (Cl. 193—13.)



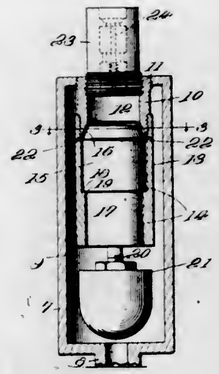
1. In combination, a locomotive, a tender, a fuel transfer conduit comprising two telescopically and flexibly related sections, the inner portion of the entering sections having its outer surface longitudinally convex, the inner surface of the receiving section of the joint being longitudinally straight, and a link holding the two sections in engagement and being pivotally attached to each section.

1,379,308. AIR-CONTROLLING DEVICE FOR AUTOMOBILE-RADIATORS. GEORGE G. MARSHALL, Cleveland Heights, Ohio. Filed Dec. 26, 1918. Serial No. 268,378. 3 Claims. (Cl. 257—132.)



1. In a device of the character described, the combination with a frame of a collapsible member secured to said said frame at the lower portion thereof, cross members extending between the side members of the frame and slidably mounted upon said side members of the frame, the said cross members being secured to the collapsible member, the collapsible member leaving the frame entirely open when at the bottom thereof and covering portions of said frame in intermediate positions between the bottom and the top, and means secured to the collapsible member for raising and lowering the collapsible member.

1,379,309. AUTOMATIC AIR AND GAS RELIEF VALVE FOR OIL-DISTRIBUTING SYSTEMS. HENRY GRADY MOBLEY, Valley Mills, Tex. Filed Apr. 16, 1920. Serial No. 374,455. 3 Claims. (Cl. 137—69.)



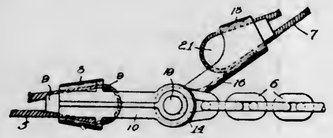
1. In an oil distributing system, the combination of an oil pump discharging oil to any desired point, a suction line connected to said pump, a gravity line having connection with an oil reservoir and the suction line, a discharge line adapted to force oil under pressure to said suction line, and automatic means in said suction line permitting the escape of air or gas and not oil.

1,379,310. VALVE-SPRING COMPRESSOR AND VALVE-GRINDING TOOL. JOSEPH EUGENE O'SULLIVAN, North Madison, Ind. Filed Dec. 18, 1919. Serial No. 345,693. 1 Claim. (Cl. 51—29.)



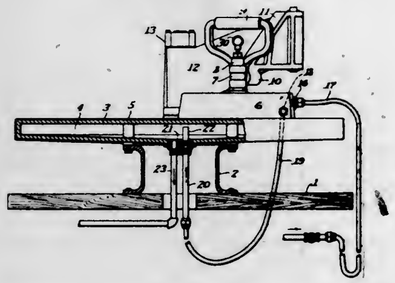
A tool as herein characterized and comprising a shank member and a transverse head member rigidly connected with the said shank at one end and projecting to each side thereof, said head serving as a handle, said shank having its opposite end bifurcated and defining spaced arms of equal length and a relatively deep recess extending into the shank, the outer faces of the ends of the spaced arms being flat, defining shoulders adapted to abut the conventional valve spring retaining washer, whereby such spring may be compressed longitudinally, said shank being concaved on opposite faces at the side edges of said recess, said concaveties adapted to permit the fingers to grip and remove the conventional spring washer retaining cross pin from the valve stem, the stem of the valve adapted to be disposed within the recess between the before mentioned arms, and said arms having alined lateral perforations through the same adjacent their free ends for the reception of a pin projecting laterally from the valve stem to couple the same with the shank, whereby the tool may be used to grind or regrind the valve and its seat.

1,379,311. EXCAVATING-SHOVEL. JOHN W. PAGE, Chicago, Ill. Filed Mar. 17, 1919. Serial No. 283,030. 5 Claims. (Cl. 37—40.)



1. In combination, a casting comprising a body portion having a wedge shaped tubular opening therethrough, a pair of arms extending from said body portion, each of said arms being bifurcated at its outer end, a hauling line bent upon itself and passing through said tubular opening, a wedge coöperating with said tubular opening to hold the hauling line therein, a holding line, means for retaining said holding line and means carried by the arms to support said holding line retaining means.

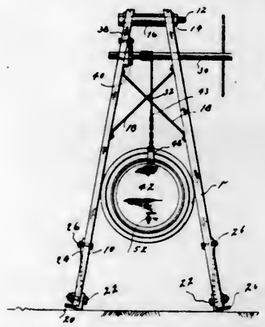
1,379,312. METHOD OF PRESSING. HERMAN W. PETH, Rochester, N. Y., assignor to Peth Pressing Process, Inc., Rochester, N. Y., a Corporation of New York. Filed June 13, 1917. Serial No. 174,479. 2 Claims. (Cl. 68—9.)



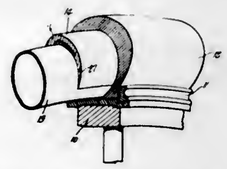
1. The method of pressing goods which consists in providing a fabric covered bed and a shiftable iron whose ironing surface is perforated and is less in area than that of the bed, heating the iron and the bed both to temperatures less than that which would burn the goods if the iron and the bed were held in contact with the goods simultaneously for an extended length of time, and pressing the goods by moving the iron to different portions of the goods on the bed and by issuing steam through the perforated ironing surface of the iron, while the iron is in engagement with the goods in the different positions so that steam is caused to pass through the goods and the fabric-covered bed to issue about the edges of the iron without material condensation, the iron after such issuing of the steam in any one position being held at such position until that portion of the goods under the iron is dry.

1,379,313. BARREL-LIFTER. FRANK L. SCHNEIDER, Shellrock, Iowa. Filed Oct. 14, 1920. Serial No. 416,819. 1 Claim. (Cl. 254—146.)

A lifting device for barrels comprising a pair of inclined standards, spacing means connecting the upper ends of the standards, a drum carried by said standards, means whereby the drum may be secured in a set position, base members each secured midway its ends to the lower end of a standard, braces secured to said base members and the adjacent standards, a flexible element wound about and secured to said drum, said flexible element being provided at its lower end with a loop, a chain passed through said loop, a barrel engaging hook carried by one end of said chain, a second barrel-engaging hook having an opening slidably receiving said chain, and a holding member carried by the slidably received end of the chain and adapted for engaging the links of the chain whereby the effective length of the chain may be varied.

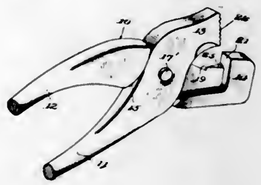


1,379,314. INNER LINER FOR TIRES. ARTHUR L. SEWELL, Chicago, Ill., assignor of one-third to Edward J. Moran and one-third to James A. Greeley, Chicago, Ill. Filed June 16, 1920. Serial No. 389,373. 1 Claim. (Cl. 152—18.)



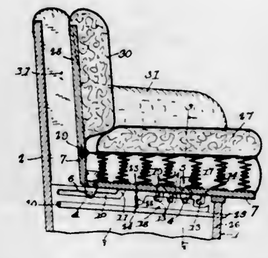
An inner liner for tires comprising a substantially crescent-shaped member having embedded therein a series of overlapping, spaced and elongated reinforcing elements disposed in sequence throughout the entire length of said member, each of said reinforcing elements being transvrsely arranged with reference to the said member and provided with corrugated edges to prevent creeping.

1,379,315. PLIERS. KSERTY SHANER, Washburn, Me. Filed Feb. 19, 1920. Serial No. 359,821. 1 Claim. (Cl. 81—198.)



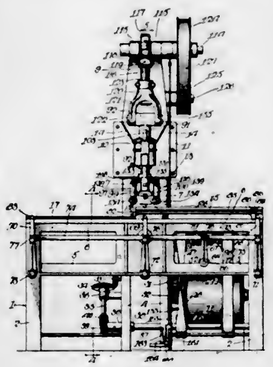
A tool consisting of two pivotally connected members, the portions of the members at one side of the pivot forming handles and the portions at opposite sides of the pivot forming coöperating jaws, the jaws being reduced longitudinally on their opposed edges at opposite sides whereby they may lie side by side and the outer faces of the reduced portions of the jaws being beveled to form coöperating cutters, one of the cutters being provided in its cutting edge with a notch to receive work and to resist movement of the same outward between the jaws and being further provided outwardly beyond said notch with a work-supporting shoulder disposed in a plane parallel to the longitudinal axis of one of the jaws.

1,379,316. ADJUSTABLE SEAT ATTACHMENT FOR AUTOMOBILES. ALFORD A. SMITH and RAY JORGENSEN, Milwaukee, Wis. Filed July 6, 1920. Serial No. 394,060. 6 Claims. (Cl. 155—14.)



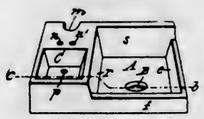
1. The combination with the main front seat of a motor driven vehicle, of an auxiliary seat adjustably mounted thereon, and adapted to be interlocked with the base portion of the main seat, a latch for holding the adjustable seat in such interlocked relation, the base portion of the main seat having risers provided with horizontal channels, and a vertical channel communicating with each horizontal channel at one end, the adjustable seat having depending brackets provided with lugs to engage in said channels by movement through the vertical portions thereof, and along the horizontal portions to interlocking position.

1,379,317. MACHINE FOR MAKING STEREOTYPE-MOLDS. CHRISTIAN N. SMITH, Elgin, Ill. Filed July 5, 1917. Serial No. 178,855. 10 Claims. (Cl. 101—12.)



1. In a machine of the class described, the combination of a main frame, a reciprocating form-supporting table mounted on the main frame, a reciprocating tamping tool mounted above and movable upward and downward with respect to the table, for forming a mold, a reciprocating plunger, a tool supporting member mounted upon and in movable relation to the plunger and in supporting engagement with the tamping tool, spring mechanism in engagement with the plunger and operatively connected with said last mentioned tool-supporting member and acting to move the latter upward with respect to said plunger member, plunger-operating means for positively operating the plunger, and means for moving the table alternately in opposite directions beneath the reciprocating tamping tool, during the operation of the latter.

1,379,318. BATH-ROOM FIXTURE. GEORGE F. STEINKAMP, Cincinnati, Ohio. Filed Jan. 13, 1920. Serial No. 351,234. 1 Claim. (Cl. 4—1.)

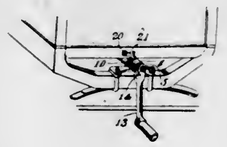


A bath-room or lavatory fixture comprising a stationary wash-stand, a horizontal bath-slab extension arranged laterally to said wash-stand but at a lower level than the top of the latter, an enlarged combined bath-discharge and toilet opening in said bath-slab extension, a flushing-tank, and a toilet or water-closet, the latter alined beneath the said office, substantially as shown and described.

1,379,319. CASE-HARDENING PREPARATION. CLAUDE AUGUSTUS STEWART, Willoughby, Sydney, New South Wales, Australia. Filed Aug. 9, 1918. Serial No. 249,155. 1 Claim. (Cl. 148—19.)

The process of preparing a case hardening compound, consisting in immersing a predetermined quantity of charcoal granules in a less quantity than the charcoal is capable of absorbing, of an aqueous solution of a member of the alkali group; mixing the same; allowing the mixture to stand until the point of impregnation is reached, and expelling the contained moisture by heat.

1,379,320. AUTOMOBILE SAFETY-CRANK. ORIEN S. STRICKLAND and GEORGE WILLIAM WOOD, Portales, N. Mex. Filed Aug. 19, 1920. Serial No. 404,705. 1 Claim. (Cl. 123—185.)

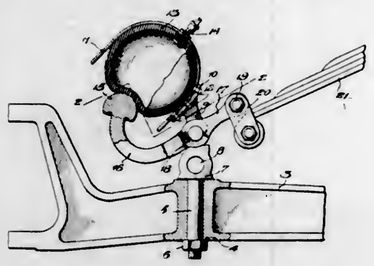


The combination with a motor car, of a safety crank for the shaft of the explosive engine thereof, consisting of a stub shaft having fast engagement with the end of the engine shaft, a sleeve rotatably mounted upon said stub shaft and having an inner series of ratchet teeth and an outer series of ratchet teeth, a ratchet wheel fast upon said stub shaft and having its teeth in line with and similar in number to said outer series of teeth, a crank arm rotatably engaging said stub shaft, a pivoted spring pressed pawl carried by said crank arm and engaging the said ratchet wheel and engaging also the said outer series of teeth, and a pawl pivoted to the radiator of the car and engaging said inner series of teeth, whereby in case of back fire, said first named pawl will be automatically released from said sleeve and said ratchet wheel to thereby release said crank arm.

1,379,321. VEHICLE-SPRING. LEWIS IRVINE THOMPSON, Portland, Oreg. Filed July 22, 1920. Serial No. 398,055. 7 Claims. (Cl. 267—18.)

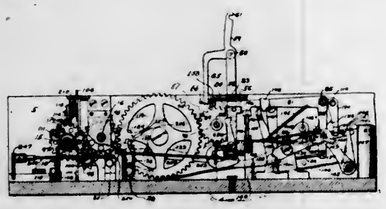
7. A spring device comprising a support having a shank arranged to be connected in an axle of a vehicle and an arm substantially coaxial with said shank formed with an enlarged head, a housing on said head, a fluid-

inflated resilient casing in said housing, and a lever fulcrumed on said support, said lever having a terminal



arranged to bear against said casing and being arranged on the opposite side of the fulcrum for connection with a load-sustaining member of the vehicle.

1,379,322. CALCULATING ATTACHMENT FOR TYPEWRITING-MACHINES. FERDINAND J. TILLMAN, St. Louis, Mo., assignor to Typewriter Calculating Attachment Company, a Corporation of Missouri. Filed Mar. 12, 1917. Serial No. 154,196. 53 Claims. (Cl. 235—59.)

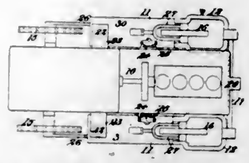


1. The combination with the traveling platen carriage and key levers of a typewriting machine, of calculating mechanism operable by said key levers and comprising an accumulator having a series of transmission wheels, a traveling master wheel shiftable step by step from one to another of said transmission wheels, and power transmission means driven by the traveling platen carriage to shift said traveling master wheel step by step, locking means whereby said power transmission means is locked when disengaged from said traveling platen carriage, and unlocking means whereby said power transmission means is unlocked to permit the master wheel to be shifted by said traveling platen carriage.

18. The combination with the platen carriage and key levers of a typewriting machine, of calculating mechanism comprising integer wheels, slide bars for operating said integer wheels, connectors, pivoted to said slide bars, movable into and out of engagement with said key levers, and mechanism operable by said platen carriage by which all of said connectors are moved simultaneously into and out of engagement with said key levers, said mechanism comprising a rockable device having parallel rods between which the lower ends of said connectors are positioned, and a shift bar interlocked with said rockable device.

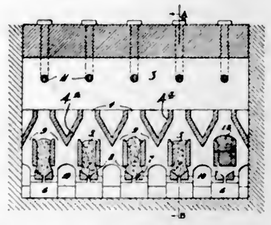
38. In a calculating machine, the combination of registering mechanism, an integer wheel shaft, integer wheels fixed to said shaft, transmission mechanism operable by said integer wheels and shaft for operating said registering mechanism, integer wheel operating members, a series of bell cranks operable directly by said integer wheel operating members, a locking member for engagement with an element of said transmission mechanism, means for operating said locking member operable by said bell crank levers, and a latch under the control of said bell crank levers for holding said locking member in active position pending the operation of said integer wheels.

1,379,323. SELF-LAYING-TRACK VEHICLE. WILLIAM TURNBULL, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Dec. 11, 1916. Serial No. 136,209. 22 Claims. (Cl. 305—9.)



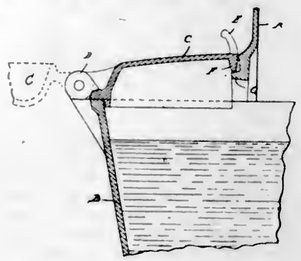
22. In a vehicle, the combination with a main frame, an endless track structure at each side of the main frame including an idler at the front of said structure and an extension projecting beyond the idler, means connected centrally to the forward end of the main frame and to each of the said extensions for equally distributing the weight of the forward end of the main frame, and a load supporting connection between the main frame and the other end of each of the said track structures.

1,379,324. DOWNDRAFT-KILN. ALOYSIUS WILHELMUS FRANCISCUS WEYERS, Tilburg, Netherlands. Filed Apr. 24, 1920. Serial No. 376,343. 5 Claims. (Cl. 25—137.)



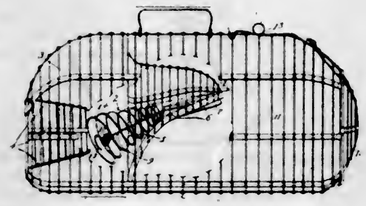
1. In a kiln, independent adjoining apartments with intervening walls between them, passages in said walls, fire chambers arranged in the apartments having air admitting openings in their lower portions and open upper ends, said fire chambers being arranged in spaced relation to provide vertical air passages therebetween.

1,379,325. WATER-PAN FOR HOT-AIR FURNACES. HARRY L. WOOD, Dowagiac, Mich., assignor to Premier Warm Air Heater Company, Dowagiac, Mich., a Corporation of Michigan. Filed June 25, 1920. Serial No. 391,763. 1 Claim. (Cl. 126—113.)



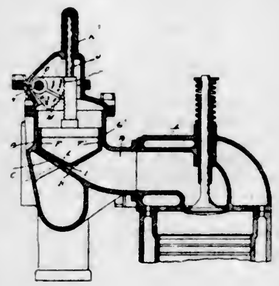
In a device of the character described, the combination with the wall of a hot air furnace, of a water pan projecting exteriorly therefrom, a closure for said projecting portion hinged at its outer edge to the outer edge of said exteriorly projecting portion and provided with a flange around its entire inner edge, and means adjacent the wall of said furnace forming a seat for the closure.

1,379,326. ANIMAL-TRAP FOR CATCHING RATS, MICE, AND THE LIKE. ALFRED M. WORCESTER, Cincinnati, Ohio. Filed Mar. 5, 1921. Serial No. 449,984. 1 Claim. (Cl. 43—65.)



In an animal or rat trap comprising a body-portion having an open or preliminary rear chamber or playground and a closed or final fore chamber or imprisoning-inclosure separated or divided by a partition or wire-work having mounted therein a tiltable trap-door for the ensnaring and onward passage of the outside animals from said play ground or chamber into the adjoining imprisoning chamber, a rearwardly-projecting balance-arm attached to the said trap-door and adapted to keep it automatically closed, and a guard or coil of wire or the like surrounding said balance-arm in the play-chamber and adapted to protect said balance-arm from the movements or interference of the animals in the play-chamber and the return of the caught or captured animals backwardly through the trap-door from the imprisoning-chamber.

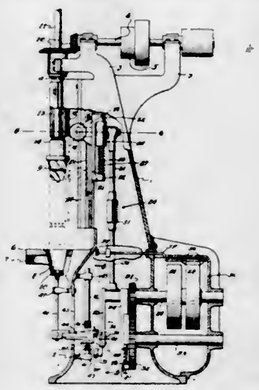
1,379,327. INTAKE-MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. ANDREW BACHLE, Detroit, Mich. Filed Sept. 9, 1918. Serial No. 253,346. 4 Claims. (Cl. 123—52.)



1. In an internal combustion engine of the multi-cylinder type, the combination with an intake manifold extending to a plurality of cylinders, of an adjustable wall for said manifold, said wall and manifold having coöperating V-shaped portions of slightly different angle, there being a space between the apices of said portions, and means for adjusting said wall to vary the cross sectional area of said manifold.

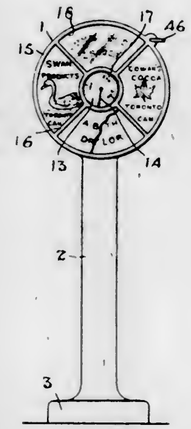
1,379,328. MOLDING-MACHINE. WILLIAM J. BAIRD, Detroit, Mich. Filed Apr. 9, 1920. Serial No. 372,732. 9 Claims. (Cl. 25—26.)

1. In a molding machine, the combination with a frame, of a mold mounted on said frame, a former longitudinally movable within said mold, a rack connected to said former, a second rack upon said frame, a gear meshing with said racks, and means for relatively moving said gear



and second rack to thereby longitudinally move said first mentioned rack.

1,379,329. ADVERTISING DEVICE. RICHARD THOMAS BELL, Toronto, Ontario, Canada, assignor of one-fourth to Robert J. Copeland, Toronto, Ontario, Canada. Filed Feb. 25, 1920. Serial No. 361,148. 10 Claims. (Cl. 40—28.)

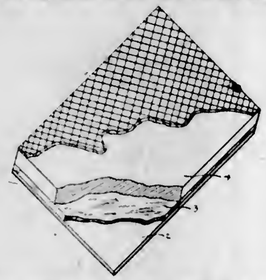


9. In an advertising scale, the combination with a dial scale, of means for locking said scale, a rotatable display member, a spring motor operatively connected to said display member, means for governing the movement of the display member, a lever operatively connected with said locking means to release same, a shaft geared to said motor, ratchet means connected with said lever adapted to rotate said winding shaft, a spirally grooved member arranged adjacent to said lever, and a pin on said lever engaging said spiral groove.

1,379,330. OUTSIDE FINISH FOR FRAME HOUSES. JOHN BUDINICH, West New York, N. J. Filed Mar. 26, 1920. Serial No. 368,913. 1 Claim. (Cl. 154—45.9.)

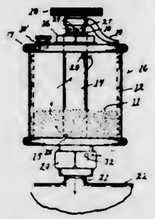
An outside finish for frame houses comprising a composite sheet composed of a layer of paper, a layer of hair

felt over the paper, a layer of waterproofing material over the felt, and a layer of wire lath over the waterproof ma-



terial united toform an integral sheet of several distinct layers.

1,379,331. LUBRICATING APPARATUS. CHARLES H. BUETTNER, Cincinnati, Ohio. Filed July 3, 1919. Serial No. 308,492. 5 Claims. (Cl. 184—59.)



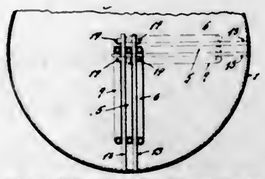
1. A lubricating apparatus comprising a chamber to contain a supply of pulverulent lubricant, a fluid and lubricant exit port leading therefrom above the upper surface of the lubricant therein to the place where the lubricant is to be applied, a gas port leading from the exterior of said chamber to a point within said chamber below the upper surface of said lubricant supply and to carry lubricant in suspension to the entrance to said lubricant exit port, and means exteriorly of said chamber to regulate the gas supply to said chamber.

1,379,332. EXPANSION-BIT. GEORGE P. BUTLER, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Apr. 12, 1920. Serial No. 373,047. 5 Claims. (Cl. 145—127.)



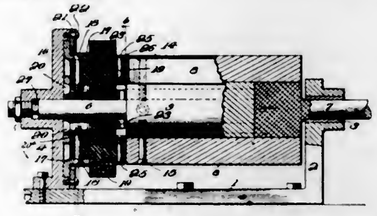
1. An expansion bit, having a head, a laterally adjustable cutter mounted therein, a forwardly inclined cutter-locking wedge mounted in the head in position to have its lower end engaged with the flat rear face of the cutter, and a wedge-operating screw transversely mounted in the rear face of the head and co-acting with the upper end of the said wedge for forcing the lower end thereof into engagement with the flat rear face of the cutter.

1,379,333. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed May 22, 1917. Serial No. 170,148. 1 Claim. (Cl. 196—25.)



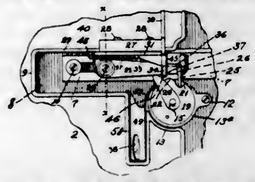
In the art of cracking liquid hydrocarbons, the method of removing liquid and solid residual matter from cylindrical cracking stills which comprises removing the free liquid portions of the residue, leaving a wet mass of residual coke or carbon in the still, then drying and at the same time stirring the coke or carbon by sweeping it back and forth transversely of the arcuate bottom of the cylindrical still, and thereafter removing the dry coke or carbon from the still.

1,379,334. IGNITION-GENERATOR. WILLIAM WARREN DEAN, Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 22, 1916. Serial No. 116,356. 8 Claims. (Cl. 171—252.)



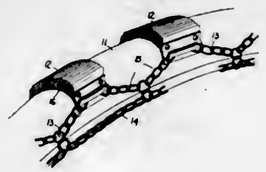
1. A magneto electric machine comprising a multipolar permanent magnet rotor having a plurality of spaced prongs forming the poles of the magnet, said prongs being parallel to the axis of the rotor, a non-magnetic block connecting the outer ends of said prongs, a shaft supporting said prongs for rotation, a supporting base, an upright formed integral therewith and having a bearing for said shaft, a non-magnetic upright mounted on said base and forming the other bearing for said shaft, a plurality of stationary current-generating coils carried by said non-magnetic upright, a core for each coil, said cores being disposed endwise of and in inductive relation to the poles of the magnet and adapted to receive the flux therefrom, means carried by said non-magnetic upright for adjusting the shaft endwise to vary the air gap between the poles of the magnet and the ends of the cores.

1,379,335. AUTOMATIC COIN CONTROLLED DEVICE FOR PERMUTATION SAFE LOCKS OR THE LIKE. EDWIN L. DODSON, Covington, Ky. Filed Mar. 26, 1917. Serial No. 157,467. 3 Claims. (Cl. 194—74.)



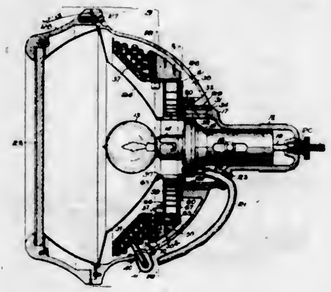
1. In a coin-controlled lock-mechanism for safe-doors, the combination of a lock-chamber, lock-bolts, a slotted rearwardly-extending bolt-bar, permutation-tumblers, a driver-tumbler, a pivotal-arm mounted on said slotted bolt-bar, a dog-member mounted at the fore-end of said pivotal-arm and adapted to engage the said tumblers, spring-latch detaining means for said dog-member to prevent its engagement with the said tumblers until the latter are in due alinement, lock-operating means including an arbor or spindle, and coin-controlled means adapted to be released for, in turn, releasing the dog-member when the inserted coin has reached in the lock-chamber and the said arbor or spindle turn, and then the said lock-operating means adapted to be actuated so that said dog-member may drop into the notches of said tumblers for engagement therewith and then followed by the retraction of said lock-bolts, substantially as shown and described.

1,379,336. TRACTION-TREAD. EMIL ERIK, Ossining, N. Y., assignor of one-half to John Fetto, Ossining, N. Y. Filed Oct. 15, 1920. Serial No. 417,261. 2 Claims. (Cl. 152—14.)



1. A non skid device comprising a series of independent tread elements each of which consists of metal end pieces partially curved to engage a portion of the tire and an upstanding portion, a length of annular flattened fabric folded upon itself held between the upstanding portions of said metal end pieces, a bolt passing through said end pieces and also through each fold of the fabric, and means for securing said tread to said tire.

1,379,337. LIGHTING APPARATUS. JOHN H. GEORGE and ELLSWORTH A. HAWTHORNE, Bridgeport, Conn.; said George assignor to said Hawthorne. Filed Jan. 18, 1919. Serial No. 271,858. 14 Claims. (Cl. 240—7.)



12. A lighting apparatus comprising, in combination, a light reflecting unit having a drum housed therein, a light-source unit comprising a light-source normally housed in said light-reflecting unit but removable therefrom and from said drum for use as a portable lamp, and a flexible light source supply conductor wound on said drum, attached to said light-source unit, and arranged to be wound onto and unwound from said drum in moving said light source unit as a portable lamp.

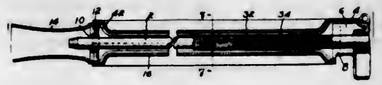
1,379,338. PHONOGRAPH. CHARLES HANSEN, San Jose, Calif. Filed June 28, 1920. Serial No. 392,319. 15 Claims. (Cl. 274—25.)

1. A device of the character indicated including a vibrating arm arranged in a vertical plane, a record engaging point operatively mounted in one end thereof, means for mounting said arm and point in operative relation to



a record, and a wing-like member mounted on said arm and extending laterally therefrom.

1,379,339. MACHINE-GUN. GEORGE D. HASKELL, Concord, Mass., assignor to United States Machine Gun Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 10, 1917. Serial No. 195,812. 4 Claims. (Cl. 89—1.)



1. A gun having in combination, a barrel, a casing surrounding the same and extended forwardly beyond the muzzle of the barrel, air ports entering said casing near its opposite end, whereby firing of the gun will cause a a current of air to enter the casing at said port, flow along the barrel to cool the same and escape at the outer end of the casing, said casing having outwardly extended heat radiating ribs thereon, the casing split longitudinally through a plurality of said ribs, and hinged to open along one of the rib ends, recesses in two of the split portions of said ribs and beads on the opposite split portions of said ribs to enter the recesses whereby the casing may be opened throughout its length to further admit air within the same.

1,379,340. FLOWER-HOLDER. EDGAR D. HEGAMIN, St. Louis, Mo. Filed Jan. 7, 1921. Serial No. 435,680. 7 Claims. (Cl. 24—6.)



4. A device of the character described including a receptacle, a stem receiving closure cap therefor, and means engaged with said closure cap for detachably securing the device to a garment and providing a reinforcement for the closure cap.

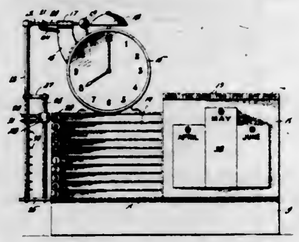
1,379,341. MANUFACTURE OF HATS. LEWIS HERMAN, Jr., Summer Hill, New South Wales, Australia. Filed June 30, 1919. Serial No. 307,847. 2 Claims. (Cl. 91—68.)

2. In the manufacture of hats the method of preparing a foundation material consisting in treating a fabric, first with a solution of sugar of lead, alum and water, and subsequently with another of wood spirit and shellac.

1,379,342. TIME-CONTROLLED DESK-MEMORANDUM. JOSEPH A. HOWELL, Dover, Ohio. Filed Dec. 13, 1920. Serial No. 430,303. 1 Claim. (Cl. 161—6.)

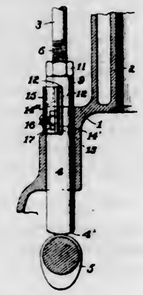
A device as specified including superposed compartments representative of the different hours of the day and adapted to receive notes or memorandums of business to be

transacted at said different hours, a clock mounted upon said compartments and equipped with a clapper and a bell, indicating means operated by movement of said clapper to successively pass from one compartment to the



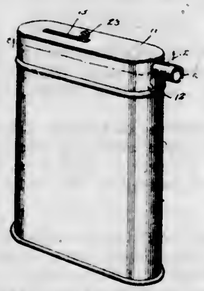
other during the different hours of the day to designate business to be transacted at the particular hour referred to by the indicator, said clapper likewise contacting with said bell, after having imparted movement to the indicator, to audibly call attention to the position of the indicator.

1,379,343. PUSH-ROD CONNECTION FOR AUTOMOBILE-ENGINE VALVES. ROBERT L. HUGHENS, Atlanta, Ga. Filed Jan. 17, 1920. Serial No. 352,020. 6 Claims. (Cl. 123—90.)



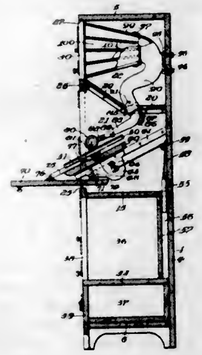
1. A push rod connection for automobile valves comprising push rod sections, an adjustable connection between them and a coupling member having flanges engaging parts of the push rod sections and other flanges engaging the outer face of the cylinder block, with means for adjusting the said coupling member to take up looseness in the connection, substantially as described.

1,379,344. CIGARETTE-FORMER. GEORGE E. JACKSON, Brooklyn, N. Y., assignor of forty-nine one-hundredths to William B. Evans, Montclair, N. J. Filed July 22, 1919. Serial No. 312,502. 2 Claims. (Cl. 131—5.)



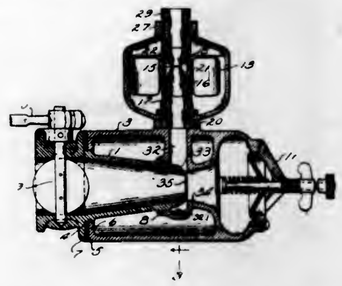
2. The combination with a tobacco container having a cover member provided with an opening, of a device for forming cigarettes comprising a plunger member, a slide having formed thereon a nozzle adapted to be projected through the opening in said cover, a shoulder formed on said slide for limiting the outward movement of the nozzle, a flanged slotted portion formed on said slide constituting a guide for said plunger and a lug on said slide serving as a stop for the plunger.

1,379,345. TALKING-MACHINE. ELDRIDGE R. JOHNSON, Merion, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Oct. 2, 1914, Serial No. 864,564. Renewed Oct. 9, 1919. Serial No. 329,646. 15 Claims. (Cl. 274—2.)



1. In a talking machine, the combination with a cabinet, sound reproducing means arranged therein, of a rotary record support movable independently of said cabinet from an inoperative non-playing position within said cabinet to an operative playing position extending outwardly from said cabinet.

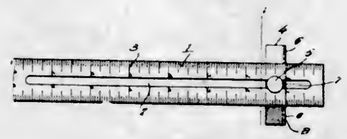
1,379,346. CARBURETER. THOMAS W. KINGS, Chicago, Ill. Filed Nov. 9, 1918. Serial No. 261,796. 6 Claims. (Cl. 261—76.)



1. In a carbureter, a casing forming a fuel chamber, a vertical tube communicating with said chamber, a Venturi tube located in said vertical tube and forming an air intake passage, said Venturi tube comprising two parts separated near the smallest diameter of the venturi, one of said parts having threaded engagement with said vertical parts so as to be adjustable toward and away from the other of said parts, the inner adjacent ends of said venturi parts being smalled in external diameter than said tube to provide a chamber between the venturi and said vertical tube, and a fuel passageway in said vertical tube providing communication between the fuel chamber and the chamber formed between said vertical tube and venturi.

4. In a carbureter, a tube having fuel and air inlets, a casing communicating with the outlet end of said tube, and a venturi comprising two parts separated near the smallest diameter of the venturi, said venturi communicating with said casing at the inner adjacent ends of said parts, one of said parts being supported on said casing so as to be longitudinally adjustable toward and away from the other of said parts for regulating the flow of fuel through said venturi.

1,379,347. HEM-GAGE. RUTH J. KLATH, Adams, N. D. Filed May 19, 1917. Serial No. 169,754. 3 Claims. (Cl. 33—169.)

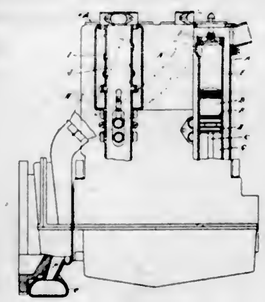


1. A hem gage comprising a plate, a slide associated therewith, and teeth on the slide extending laterally from the plane of the slide.

2. A hem gage comprising an elongated plate, a slide associated therewith, an angularly disposed flange carried by said slide, and said flange having teeth on its free edge.

3. A hem gage comprising an elongated plate having a slot therein, a slide arranged transversely of said plate and having each end projecting beyond the longitudinal edges of said plate, said slide having teeth projecting angularly therefrom at opposite ends of the slide, and one between its ends to project through said slot.

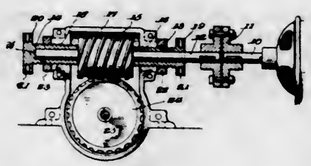
1,379,348. INTERNAL-COMBUSTION ENGINE. WILLIAM H. KNOWLES, Detroit, Mich. Filed July 20, 1916. Serial No. 110,285. 3 Claims. (Cl. 123—59.)



1. In an internal combustion engine, the combination with a plurality of power cylinders, of a valve cylinder, means within said power cylinders for compressing gases and means within said valve cylinder for transferring said compressed gases, said gases being temporarily stored within said valve cylinder, and for controlling the admission and exhaust of said cylinders.

1,379,349. MOTOR-DRIVE FOR LOOMS. DON C. LEONARD, Greenville, S. C. Filed Feb. 14, 1920. Serial No. 358,589. 1 Claim. (Cl. 74—36.)

In power transmission mechanism, a casing having communicating gear chambers, a worm gear rotatably mounted in one of said chambers, the other chamber having oppositely located end walls formed with alined correspondingly threaded bores of equal diameter and length, exteriorly threaded bearing sleeves adjustably fitted in said bores with their inner ends projecting into the last-mentioned gear chamber beyond the planes of the end walls thereof, the outer ends of the sleeves projecting exteriorly of the end walls of the chamber and being provided with means whereby the sleeves may be rotatably adjusted, the



said sleeves having alined bores, a shaft rotatably journaled in the bores of the sleeves, and a worm upon the shaft meshing with the worm gear, the said inner ends of the sleeves bearing at the opposite ends of the worm.

1,379,350. DEVICE FOR INDICATING THE LEVEL OF OIL IN ENGINE CRANK-CASES. ALFRED T. LE VESCONTE, Anona, Fla. Filed Apr. 3, 1920. Serial No. 371,061. 2 Claims. (Cl. 221—26.)



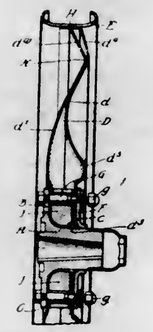
1. The combination with the crank case of an engine provided at one end and near its bottom with a screw threaded opening, of a valve casing having a tubular extension inserted within the screw threaded opening, said valve casing having a bore extending transversely of the crank case, a valve body pivoted within the bore and extending transversely of the crank case, said valve body having a longitudinal port with its outer end passing through the upper side of the valve body exteriorly of the valve casing, said valve body having a segmental opening in communication with the inner end of the longitudinal port, said segmental opening being adapted for movement into and out of registration with the tubular extension, an upstanding spout connected with the valve body and leading into the outer end of said port, said spout being so correlated with the segmental opening, that when the spout is moved to an approximately vertical position the segmental opening is out of registration with the tubular extension, said spout swinging longitudinally of the crank case toward and away from the end thereof, a plate having a scale and adapted to be secured to the dust guard of the automobile, a rock shaft extending transversely of the automobile and having its inner end secured to the outer end of the valve body and its outer end extending through said plate, and a pointer rigidly mounted upon the outer end of the rock shaft in advance of the plate and adapted to travel in proximity to the scale.

1,379,351. PROCESS OF MAKING CELLULOSE XANTHOGENATE SOLUTIONS AND PRODUCT PRODUCED. LEON LILIENFELD, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 16, 1914, Serial No. 839,079. Renewed Sept. 24, 1919. Serial No. 325,963. 4 Claims. (Cl. 106—40.)

1. A process of making pure cellulose xanthogenate solutions from viscose solution which comprises heating the

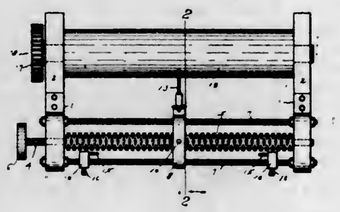
viscose solution alone to a temperature capable of precipitating a water-insoluble xanthogenate without adding other materials capable of acting as precipitants, washing the precipitate thoroughly with water, and thereafter dissolving the washed precipitate in a solution of caustic alkali substantially as described.

1,379,352. DISK-WHEEL ASSEMBLY. VICTOR LOUGHEED, Santa Barbara, Calif., assignor to Duodisk Steel Wheel Corporation, Los Angeles, Calif., a Corporation of Delaware. Filed Nov. 26, 1920. Serial No. 426,546. 6 Claims. (Cl. 301—63.)



1. In a demountable disk wheel, a hub having a radial clamping flange; a web-member constructed for radial bearing upon the hub and axial abutment against its flange, comprising resilient disks fixedly united in an annulus radially remote from the hub, and initially held yieldingly spaced apart adjacent to the hub; filling means between the yieldingly spaced portions of the disks, of less axial dimension than the distance between the disks; and bolts releasably clamping the web to the hub-flange, passing through and deflecting the disks, drawing them together upon the filling means and holding the clamped parts under stress.

1,379,353. INK-DISTRIBUTER FOR PRINTING-PRESSES. ECTOR F. MARCEAU, East Hartford, Conn. Filed Feb. 12, 1921. Serial No. 444,561. 1 Claim. (Cl. 101—364.)



An ink distributer, comprising brackets, rods connecting the brackets, a shaft provided with reverse spiral grooves supported by the brackets, means for rotating the shaft, a yoke movably supported by the rods, a distributing arm projecting from the yoke, a block swiveled to the yoke, and extending into the grooves in the shaft, a finger extending from said block, collars adjustably secured to one of said rods, and stop pins projecting from the collars and adapted to engage said finger and turn the block for reversing the travel of the yoke and distributing arm.

1,379,354. TIRE-SPREADER. ABRAHAM MARKS, Elizabeth, N. J. Filed Dec. 27, 1920. Serial No. 433,153. 3 Claims. (Cl. 152—27.)

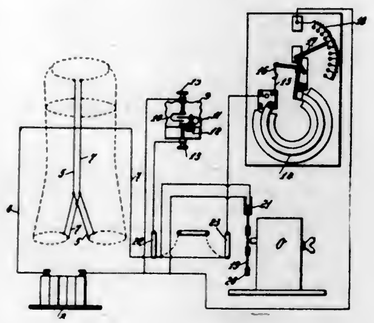


2. A one-piece tire spreader formed of a bar with a handle portion and a spreader portion, said spreader portion having recessed ends, one of said ends connecting the spreader portion with the handle.

1,379,355. METHOD FOR THE MANUFACTURE OF IGNITING COMPOSITIONS FOR MATCHES. OLOF JONATHAN MELLGREN, Gottenborg, Sweden. Filed Nov. 11, 1919. Serial No. 337,140. 5 Claims. (Cl. 52—27.)

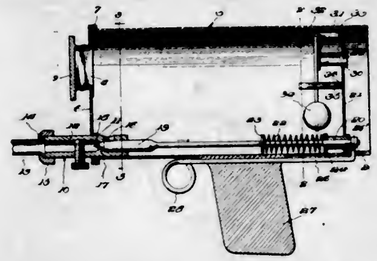
1. In the manufacture of igniting composition for matches, the substituting of part of binding materials hitherto used as part of the igniting composition for matches by the powder of tree bark which in every respect has the properties for substituting gluey substances, and at the same time supplying the igniting composition with air, for the purpose set forth.

1,379,356. ELECTRICALLY-HEATED COAT. ANTONANGELO NEGROMANTI, Milan, Italy. Filed Apr. 4, 1919. Serial No. 287,427. 4 Claims. (Cl. 219—46.)



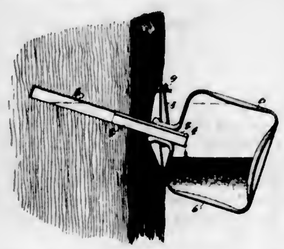
1. The combination of an electrically heated aviator's garment having heat producing electric wires embedded in the fabric thereof; a source of current connected to the wires of said fabric; current controlling means interposed between the source of current and the wires of said garment; and a barometer connected to said current controlling means to automatically operate the same.

1,379,357. LIQUID-DISPENSER. STERLING E. NORMAN, Franklin, Mass. Filed Nov. 14, 1919. Serial No. 338,080. 6 Claims. (Cl. 221—41.)



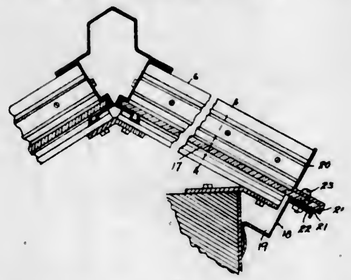
1. A device of the class described including a receptacle having a top, a spout extending through said top and engaged with one side of the receptacle, the inner portion of said spout being provided with a valve seat and an inlet opening beyond said valve seat, a plunger adapted for engaging said valve seat for closing said opening, and an operating device for said plunger.

1,379,358. APPARATUS FOR COLLECTING OLEO-RESIN. SAMUEL E. OLIVER, Vancouver, British Columbia, Canada. Filed Dec. 10, 1919. Serial No. 343,900. 3 Claims. (Cl. 47—40.)



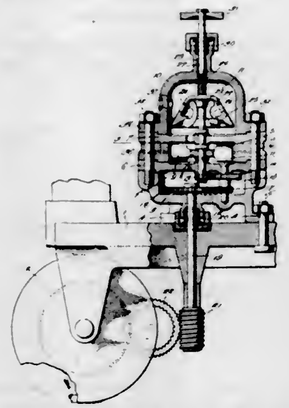
1. In apparatus for collecting oleo-resin, an outwardly expansible tubular member adapted to be inserted into the auger hole in the trunk of the tree to be tapped and a suitable container into which said outwardly expansible tubular member is partly inserted, and means for supporting the container on the tree.

1,379,359. PUTTYLESS STEEL SKYLIGHT. LOUIS PARTZSCHEFELD, Jr., New York, N. Y. Filed Dec. 13, 1918. Serial No. 266,623. 5 Claims. (Cl. 108—16.)



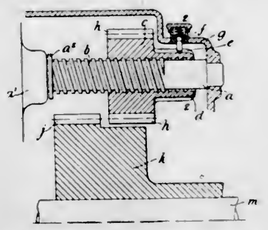
5. In a skylight the combination of a glass-supporting bar, a clip secured thereto and providing a stop for the glass of the skylight, and an adjustable apron secured to said clip and coöperating therewith to weatherproof the eaves of the skylight.

1,379,360. BLOWPIPE APPARATUS. RAYMOND B. PICKERING, Alameda, Calif. Filed Oct. 12, 1917, Serial No. 196,213. Renewed Feb. 14, 1921. Serial No. 445,011. 2 Claims. (Cl. 266—23.)



1. In blowpipe apparatus of the class described, the combination of a carriage, a torch supported thereby, a supply of gas under pressure, a casing on the carriage provided with three chambers, a shaft journaled in the casing and passing through the center chamber with its end projecting into the upper and lower chambers, blades carried by the shaft and located between the center chamber, governor means located in the upper chamber and connected with the upper end of the shaft, a pinion on the lower end of the shaft within the lower chamber, a driven shaft extending through the lower part of the casing and having its upper end located in the lower chamber, gearing within said lower chamber connecting said shaft with the pinion, means for connecting said shaft with the drive wheel of the carriage and means for directing some of the gas on its way to the nozzle against the blades in the center chamber.

1,379,361. DEVICE FOR STARTING INTERNAL-COMBUSTION ENGINES. SIDNEY LEOPOLD PRICE, London, England. Filed Dec. 15, 1920. Serial No. 430,986. 3 Claims. (Cl. 74—7.)



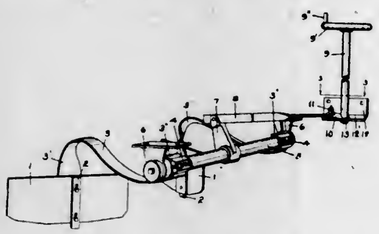
1. A starting device for internal combustion engines, comprising, in combination, a threaded spindle, an internally threaded pinion in engagement with said spindle and provided with an exteriorly grooved axial extension, and a spring-pressed plunger in position to engage the grooves of said extension for preventing rotation of the pinion with said spindle.

1,379,362. PROCESS OF MAKING WOOD ALCOHOL FROM METHANE. ERNST HERMANN RIESENFELD, Freiburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 4, 1918. Serial No. 256,928. 6 Claims. (Cl. 23—24.)

1. The process of making wood alcohol from methyl chlorid, consisting in converting methyl chlorid in an-

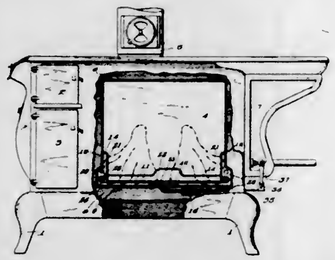
hydrous alcoholic solution into dimethyl ether by heating with caustic alkali under pressure, and subsequently hydrolyzing the dimethyl ether under pressure, the hydrolysis being accelerated by the presence of free acid.

1,379,363. TRACK SCRAPER OR CLEANER. FRED N. ROOT, Kalamazoo, Mich. Filed Apr. 27, 1920. Serial No. 377,134. 6 Claims. (Cl. 37—64.)



1. In a track scraper, the combination of a scraper shoe, a blade spring carrying the same having a vertical portion to which the said scraper blade is attached and a substantially horizontal portion, a rock shaft, means for securing the end of said spring to said rock shaft, an actuating arm on said rock shaft, a connecting link to said arm, a vertical control column, and an arm at the lower end of said column, pivotally connected to said link to form a toggle joint, arranged to pass the dead center, said link being notched to permit the pivot to pass the dead center to hold the scraper in its up or down position, coacting as specified.

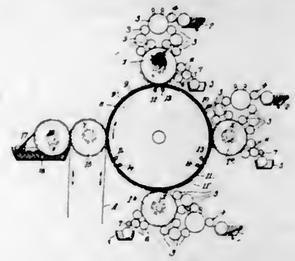
1,379,364. STOVE OR RANGE. FRED J. SASS, Peoria, Ill., assignor to Culter & Proctor Stove Co., Peoria, Ill., a Corporation of Illinois. Filed Sept. 7, 1918. Serial No. 253,073. 3 Claims. (Cl. 126—36.)



1. In a stove or range, an oven having a supplemental bottom spaced from the main bottom and provided with a plurality of perforations, gas burners on either side of said oven, a gas supply pipe connected with said burners and provided with a controlling valve, a valve in the main bottom of the oven, an operating means, operating connections between said operating means and said controlling valve in the supply pipe, and between said operating means and said valve in the oven bottom.

1,379,365. METHOD OF AND APPARATUS FOR MAKING MULTICOLOR PRINTS. OSWALD R. SCHULTZ and OTTO KIRSCH, New York, N. Y. Filed Nov. 13, 1920. Serial No. 423,889. 12 Claims. (Cl. 101—137.)

1. In a press for making color prints, the combination comprising a main impression cylinder, blanket means supported thereby, a plurality of offset color-printing cylinders and a supplemental impression cylinder adapted to yieldingly support a sheet to be printed all geared to said main cylinder, the periphery of said latter cylinder being at least the equal of the combined peripheries of all the other cylinders aforesaid, an intaglio printing cylinder in gear with such supplemental cylinder and adapted to have impression contact with such sheet when the same is supported on said supplemental impression cylinder and means for supplying ink to said offset printing cylinders.

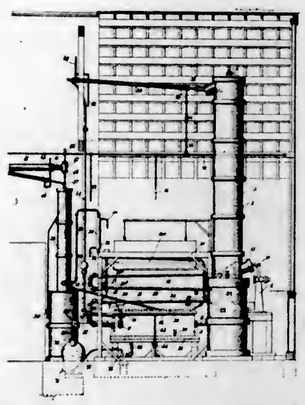


1,379,366. PROCESS OF PRODUCING ELECTRICAL CONDUCTORS. RALPH L. SEABURY, Toledo, Ohio. Filed Mar. 17, 1919. Serial No. 283,185. 13 Claims. (Cl. 171—325.)



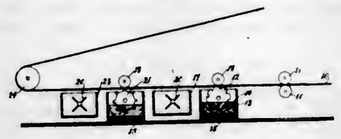
13. The process of making graphitic electrical conductor bodies, which consists in mixing pitch with flaky graphite in a quantity which is less than one-third of the graphite, compressing the mixture under high pressure into blocks, firmly packing the blocks in spaced relation to forcefully resist expansion, and subjecting the packed blocks to a rapidly rising baking temperature.

1,379,367. PROCESS OF CHLORINATION. FIN SPARRE and WALTER E. MASLAND, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 31, 1912, Serial No. 728,887. Renewed Mar. 1, 1917. Serial No. 151,845. 38 Claims. (Cl. 23—24.)



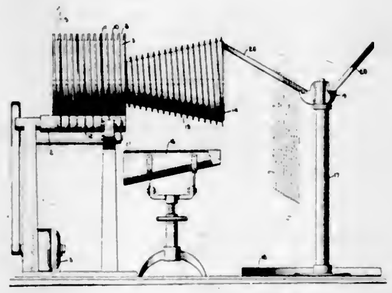
1. The process which comprises chlorinating a body of liquid in such a manner as to avoid the maintenance of a body of gas over the same.

1,379,368. METHOD AND APPARATUS OF COATING MATERIAL. ALEXANDER S. SPEER, Chicago, Ill., assignor, by mesne assignments, to The Roofing Patents Company, a Corporation of Delaware. Filed June 10, 1919. Serial No. 303,079. 10 Claims. (Cl. 91—67.9.)



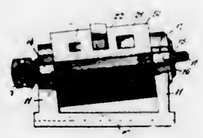
1. The method of coating material which comprises bringing the surface to be coated into contact with surfaces on an apparatus adapted to produce separated areas of sticky material on the surface, applying granular material of a distinctive character to the surface whereby the granular material will adhere only to the separated areas, allowing the non-adhering material to fall off, bringing the surface under treatment into contact with surfaces on a second apparatus complemental to said first named surfaces whereby the area of the surface under treatment not yet affected will have sticky material applied thereon, and applying granular material of a different distinctive character to said complemental surfaces.

1,379,369. BEAD-CEMENTING APPARATUS. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 15, 1920. Serial No. 381,595. 15 Claims. (Cl. 91—46.)



1. In an apparatus for treating annular bodies, a drum, rollers supporting said drum, a spiral groove in the drum and a dipping drum supported wholly by said first named drum.

1,379,370. ATTACHMENT FOR GRINDING THREAD-CUTTING TOOLS. JACOB SZATMARY, New York, N. Y. Filed May 13, 1919. Serial No. 296,798. 3 Claims. (Cl. 51—220.)



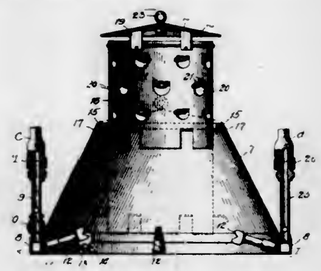
1. An attachment of the kind described, comprising a support, a tool holder journaled thereon so as to be rotatably adjustable relatively to said support, the axis of said holder being inclined with respect to said support, means on said holder whereby the tool to be ground is supported thereon in a position radial and at right angles to the axis of said holder and means for securing said holder at any point of its rotary adjustment whereby said tool may be fixed in registry with any of the imaginary radii which may be projected from said axis.

1,379,371. LOCK-NUT. JOHN D. TOSCAS, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,048. 1 Claim. (Cl. 151—5.)



In combination with a nut, having a plurality of large uniformly tapering openings extending through the wall of the nut and a plurality of smaller bores in diametrical opposition of said opening, a cotter pin having a uniformly tapering head adapted to have a wedging fit within the tapering opening in the nut and the opposite end of the cotter pin extending through the diametrical opposite bore with its extreme free ends bent against the side wall of the nut.

1,379,372. PORTABLE GAS-LIGHTING OUTFIT. CHARLES E. VERHUNCE, Chicago, Ill., assignor to R. Williamson & Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1918. Serial No. 213,121. 7 Claims. (Cl. 67—87.)

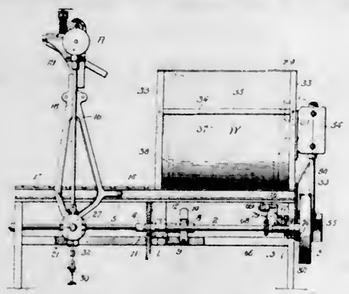


1. In a portable gas lighting outfit, the combination of a reflector having an open bottom, one or more gas burners adjacent the bottom of the reflector, a gas supplying connection for the burners, and a hood slidably connected to the reflector and adapted to pass into the reflector.

1,379,373. WASHING-MACHINE. WILLIAM H. VOSS, Davenport, Iowa. Original application filed Dec. 26, 1913, Serial No. 808,765. Divided and this application filed Sept. 9, 1916. Serial No. 119,154. 1 Claim. (Cl. 74—7.)

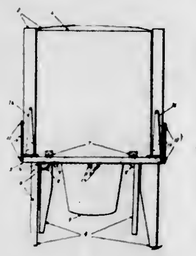
In a device of the class described, a platform, a horizontally arranged driven member above said platform near one end thereof, driving mechanism for said driven member, said mechanism being located beneath said platform and having a portion extending up, parallel with the outer end of said driven member, a frame movably mounted on said platform, an operated member carried by the frame, operating connections between the last named member and the driving mechanism, control mechanism operatively connected with said frame and having a pedal projecting laterally from said platform below the level thereof, to a position easily accessible to the foot of an operator so that the operator standing at the side of

the machine may readily control the working thereof, said driving mechanism for the driven member having an operating connection to the outer end of said driven



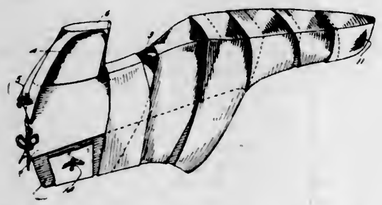
member at the adjacent end of the platform where it is out of the way of an operator standing at the side of the platform to control the operation of the frame and driven member, substantially as described.

1,379,374. FOLDING COMFORT-CHAIR FOR CHILDREN. PAUL R. WAGNER, Los Angeles, Calif., and CARL T. GROVE, Great Falls, Mont. Filed June 14, 1920. Serial No. 388,963. 1 Claim. (Cl. 155—31.)



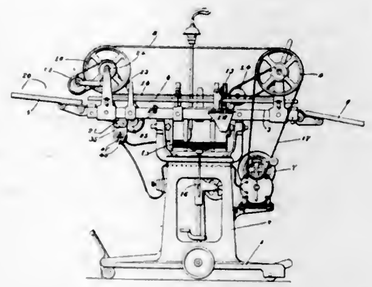
An article of the class described comprising a seat member, a cover hinged to swing forwardly on said seat member, a back hinged to swing forwardly on said cover, straight, rigid, slotted braces pivoted to the back member and slidably connected to a pin on said seat member, legs each hingedly connected to the seat member to swing individually and at right angles to the next legs, adapted to have the seat member rest upon the upper ends or top ends of the legs, when same are in an open, vertical position, in which position each leg is held by engagement with a bent rod turnably fastened in a groove on the under side of said seat member.

1,379,375. METHOD OR PROCESS OF LAYING AND SECURING SOLES TO UPPERS. PEARL J. WENTWORTH, Fort Thomas, Ky. Filed June 8, 1917. Serial No. 173,476. 2 Claims. (Cl. 12—142.)



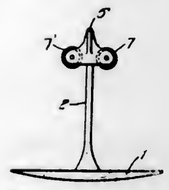
1. A method or process of laying and securing soles to uppers, including providing a lasted upper, placing an outsole thereon with an adhesive therebetween, and wrapping an elastic member about the sole and upper beginning at the heel portion of the upper, extending along the sole and around the edge of the ball and toe portion of the sole so as to engage both the sole and upper, then around the entire lasted shoe and over the toe portion thereof and thence spirally around the lasted shoe to the rear end thereof, so as to apply a continuing pressure.

1,379,376. LABELING-MACHINE. CHARLES H. WILD, Baltimore, Md., assignor to Burt Machine Company, Incorporated, a Corporation of Maryland. Filed Aug. 7, 1920. Serial No. 401,860. 2 Claims. (Cl. 216—44.)



1. In a labeling machine, an electric circuit including an electric motor for driving the machine; a cement pot and electric heating means therefor, also included in the circuit, with a switch and connections providing a high, low and medium condition of the heating means, said switch and connections also serving to cut out the motor automatically at the high position of the heating means.

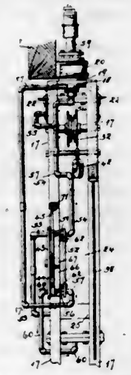
1,379,377. COLLAR-BUTTON. JOHN WUNDER, New York, N. Y. Filed May 27, 1920. Serial No. 384,614. 8 Claims. (Cl. 24—101.)



1. A collar button or the like having a nose for entering the buttonhole and a drum presenting a rotatable surface adjacent to said nose adapted to engage the edge of the buttonhole and to be moved thereby to guide the button into position in the buttonhole.

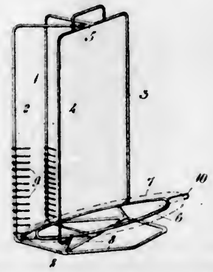
1,379,378. CRANE. GEORGE W. ZASTROW, Windsor Hills, Md., assignor, by mesne assignments, to Zastrow Machine Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed Aug. 15, 1917. Serial No. 186,397. 2 Claims. (Cl. 121—46.)

1. In a valve control mechanism for cranes the combination with a crane having a flexible load-carrying element, of a cylinder having a piston and rod which latter is operatively engaged with the said flexible element; a supply pipe to the cylinder; an exhaust pipe from the cylinder; a valve in each pipe and each valve having a stem; a bar pivotally sustained between its ends and having one end attached to the stem of one valve and its other end attached to the stem of the other valve; an oscillating valve-plate having two contact devices,—one to engage the said bar at one side of its pivot and the other



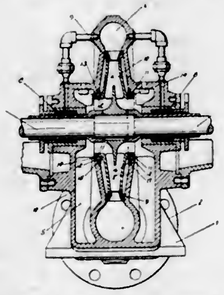
to engage said bar at the other side of its pivot; a single operating lever on the crane and a bar connecting said lever with the said oscillating valve-plate.

1,379,379. APPARATUS FOR HOLDING PLATES AND THE LIKE DURING WASHING UP AND RINSING. CARL HERMAN VALFRID ABRAHMSÉN, Stockholm, Sweden. Filed Jan. 4, 1921. Serial No. 435,003. 1 Claim. (Cl. 141—9.)



A holder for plates and the like, intended to be moved with an up-and-down motion in a washing or rinsing liquid, and comprising vertically placed rods, united at the top and bottom, said holder having at the bottom thereof an inclined base on which the plates are intended to be piled up with separating means between them, the vertically placed rods being disposed in position to serve as lateral supports for the pile.

1,379,380. CENTRIFUGAL PUMP. GEORGE H. ANDERSON, Battle Creek, Mich. Filed Nov. 21, 1918. Serial No. 263,448. 4 Claims. (Cl. 253—192.)

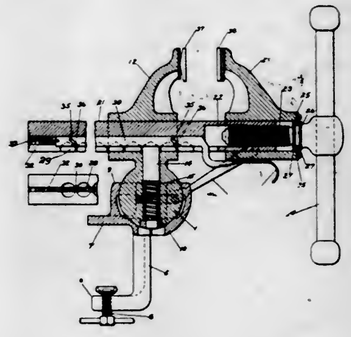


1. In a centrifugal pump, the combination with a casing, of a rotary impeller having outwardly tapered annular flanges at each end, said casing having cylindrical shoulders spaced from said impeller flanges, and floating annular members beveled on their inner sides to correspond to the taper of said flanges and peripherally shouldered to coact with said shoulders on said casing, as specified.

1,379,381. TREATMENT OF TEXTILE FIBERS AND FABRICS. CARL BENNERT, Coepenick, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 19, 1916. Serial No. 126,533. 7 Claims. (Cl. 8—5.)

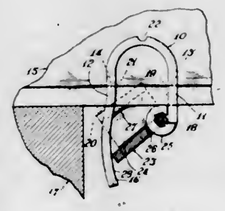
3. The process of cleansing textile fabric which comprises immersing said fabric in a solution consisting of an albumose cleansing compound derived from casein.

1,379,382. VISE. FRANS ELOF BERGSTEDT, Racine, Wis. Filed May 3, 1920. Serial No. 378,362. 5 Claims. (Cl. 81—24.)



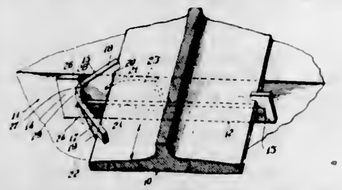
3. In a vise, a sliding bar having a series of plunger seats arranged longitudinally thereof, a plunger adapted to engage said seats, a trip rod embodying a trigger extending longitudinally of said bar and through said seats, an adjusting screw in the end of said bar, a vise-jaw mounted on said screw, and means for operating said screw to adjust said jaw on said bar.

1,379,383. RAIL-ANCHOR. LAURENCE J. BERKELEY, Milwaukee, Wis., assignor to The P. & M. Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1920. Serial No. 410,287. 18 Claims. (Cl. 238—329.)



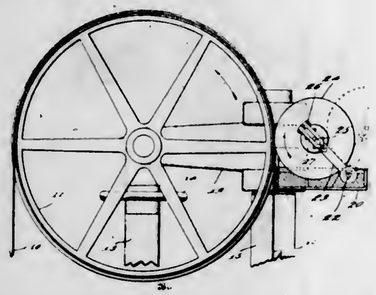
1. A rail anchor comprising a rail base engaging member provided with recesses which fit over one edge of a rail base and formed with a tie-abutting portion; said member being adapted to be strained in its application to a rail to bring said recesses into gripping contact with the rail base.

1,379,384. RAIL-ANCHOR. LAURENCE J. BERKELEY, Milwaukee, Wis., assignor to The P. & M. Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1920. Serial No. 410,288. 14 Claims. (Cl. 238—329.)



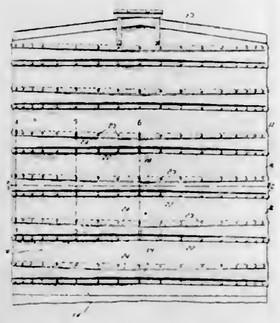
1. A rail anchor comprising a yoke member and a tie-abutting member, one being a spring adapted to be strained during the application of the device to a rail, and to be further strained during the presence of a creeping pressure to increase the grip of the device on the rail.

1,379,385. BAND-SAW LUBRICATOR. ROBERT C. BERRY, Indianapolis, Ind., assignor to E. C. Atkins & Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 8, 1919. Serial No. 281,416. 1 Claim. (Cl. 143—158.)



In a band-saw machine, the combination with the band wheels and their supporting frame, of a lubricant-applying wheel for engaging at one of the band wheels the band saw carried by said band wheels, a swinging arm in which said lubricant-applying wheel is mounted, and a lubricant-containing pan into which said lubricant-applying wheel dips when it bears against the band saw.

1,379,386. RAILWAY-CAR-WALL CONSTRUCTION. CHARLES D. BONSALL, Parnassus, Pa., assignor to Walter P. Murphy, New York, N. Y. Filed Mar. 25, 1920. Serial No. 368,516. 11 Claims. (Cl. 105—410.)

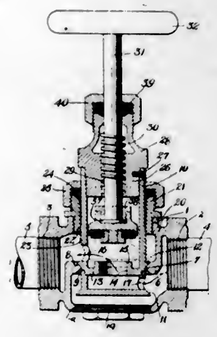


1. In a railway car, a wall comprising a plurality of overlapping plates, said plates having channels pressed therein in their overlapping portions, said channels increasing in depth and decreasing in width toward the center of the wall and forming together box ribs, said plates being riveted together on both sides of said ribs.

1,379,387. MANUFACTURE OF OXIDS OF NITROGEN. CARL BOSCH, ALWIN MITTASCH, and CHRISTOPH BECK, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Feb. 25, 1915. Serial No. 10,627. 2 Claims. (Cl. 23—1.)

1. The process of producing oxids of nitrogen by passing a mixture of ammonia and an oxygen-containing gas at a raised temperature over a granulated catalyst containing a molten and again solidified oxid of a metal of the iron group.

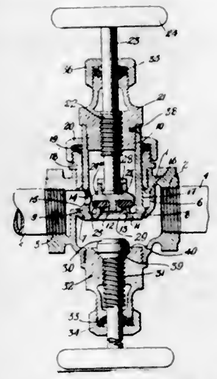
1,379,388. VALVE. WILLIAM B. BRASSINGTON, Port Richmond, N. Y. Filed Feb. 13, 1920. Serial No. 358,507. 3 Claims. (Cl. 277—68.)



1. The combination with a valve casing provided with inlet and outlet apertures, a partition having a communicating aperture therein and valve seats on its upper and lower faces surrounding said aperture, said casing being provided with a sleeve aperture coaxial with said communicating aperture, of a sleeve closed at its lower end and extending through said sleeve aperture, and communicating aperture, and provided with an annular valve portion above said partition normally engaging the upper valve seat thereof, and an annular beveled valve portion below said partition for engaging the lower valve seat thereof, but normally out of engagement therewith, said sleeve being provided with lateral apertures communicating respectively with the inlet and outlet apertures of the casing, and an intermediate main valve aperture and seat, a main valve carried by said sleeve for engaging said main valve seat, and a packing gland for effecting a tight joint at all times between the sleeve and the valve casing, while permitting the longitudinal movement of the sleeve to bring one or the other of its said valve portions into engagement with its respective seat.

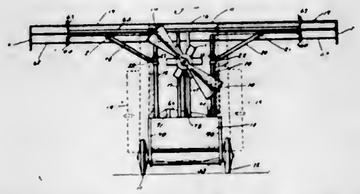
1,379,389. VALVE. WILLIAM B. BRASSINGTON, Port Richmond, N. Y. Filed Feb. 13, 1920. Serial No. 358,508. 7 Claims. (Cl. 277—68.)

1. The combination with a valve casing provided with inlet and outlet apertures, and a partition provided with a communicating aperture, of a longitudinally movable sleeve extending into said casing, and having a part fitting in said aperture, said sleeve being provided with a transverse wall having an aperture therein surrounded by a valve seat, and being provided with an aperture forming a communication between the interior of the sleeve and interior of said casing, of a main valve carried by said sleeve for engaging said valve seat, and a normally open



auxiliary valve independent of said sleeve movable longitudinally into and out of engagement with the aperture in said sleeve, which is closed by the main valve.

1,379,390. AEROPLANE. FRED W. BRAUNSCHWEIG, Milwaukee, Wis. Filed Aug. 11, 1919. Serial No. 316,814. 4 Claims. (Cl. 244—12.)



1. An aeroplane including a body, wing panels hingedly connected with said body, substantially rigid brace members for maintaining said wing panels in operative position and having their inner ends connected with the body and their outer ends connected with the under sides of the wing panels, said brace members providing means for supporting the wing panels when the aeroplane is in the air and on the ground, and means connected with said brace members for permitting the folding of said wing panels to a position against the body.

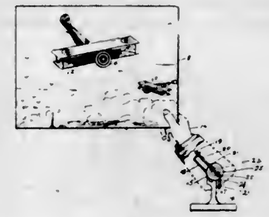
1,379,391. VULCANIZING-PAD. FRANK A. BROWN, Indianapolis, Ind., assignor to G. & J. Tire Company, a Corporation of Indiana. Filed Sept. 14, 1920. Serial No. 410,221. 3 Claims. (Cl. 154—43.)



1. A pad for shaping articles of fabric coated with vulcanizable composition consisting of layers of fibrous material and non-vulcanizable adhesive binding intermingled and united together and a non-adhesive covering.

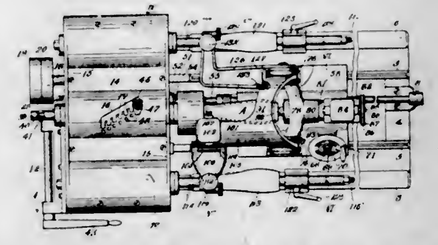
1,379,392. ADVERTISING-CARD. JOHN P. BUCKLEY, Capitol View Park, Md. Filed Sept. 27, 1919. Serial No. 326,991. 1 Claim. (Cl. 40—125.)

In cards, as an advertising medium, an image printed thereon in which appearing are one or more objects having a rotatable member or members as a part of their construction, a series of circles radiating from a common



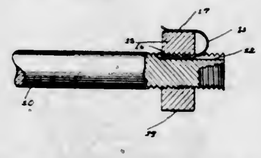
center representing such rotatable member or members and means for giving the card a circular motion, as described and shown.

1,379,393. LATHE. WILLIAM T. CARNES, Kansas City, Mo., assignor to Carnes Artificial Limb Co., Kansas City, Mo., a Corporation of Missouri. Filed Sept. 17, 1918. Serial No. 254,411. 3 Claims. (Cl. 142—7.)



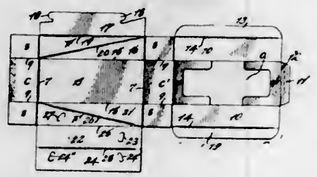
1. In a lathe, the combination of a driven chuck for supporting a block, a pair of driven shafts at opposite sides of and parallel with the chuck, a bore contouring form on one of said shafts and an exterior contouring form on the other shaft, a carriage for travel in a direction parallel with said shafts, a driven cutter carried by said carriage for boring said block, means engaging and controlled by the form for determining the boring by said cutter, for oscillating the latter during the boring operation, an oscillatory yoke mounted upon the carriage and engaging the form for determining the external shaping of the block, and a driven cutter carried by said yoke, engaging the exterior surface of said block to externally contour the same.

1,379,394. NUT-LOCK. GEORGE HOLMES COCKS, Adrian, Mich. Filed Sept. 18, 1920. Serial No. 411,241. 3 Claims. (Cl. 151—23.)



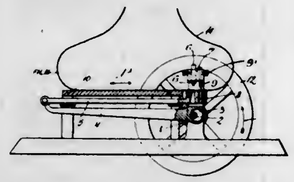
1. The combination with a screw-threaded member and a nut engaging therewith, the screw-threaded member having a longitudinally extending key seat, of a key for the nut comprising a strip of resilient metal bent upon itself to provide a portion adapted to be inserted in said key seat, and a portion adapted to bear upon the outside face of the nut, the portion inserted within the key seat having corrugations approximately fitting the threads of the nut, the resilience of the key when in place causing this corrugated portion to bear against the threads of the nut.

1,379,395. COUNTER DISPLAY FOLDING BOX. FRANCIS D. DEVLIN, New Haven, Conn., assignor to National Folding Box Company, New Haven, Conn., a Corporation of New Jersey. Filed June 11, 1920. Serial No. 388,225. 3 Claims. (Cl. 206—44.)



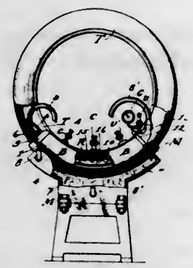
1. A rectangular collapsible paper box having in its top an opening for display therethrough of the contents, and a bottom carrying a pair of flaps projecting therefrom and dimensioned and shaped to fold in one direction and overlap each other as a cover for said opening, and in the opposite direction as a support for the box in inclined position; and means carried by said flaps to interlock them in each of their said respective positions.

1,379,396. APPARATUS FOR PERFORATION OF CINEMATOGRAPHIC FILMS. ERNST GUSTAV WILHELM DITTMER, Charlottenlund, near Copenhagen, Denmark. Filed Sept. 18, 1919. Serial No. 324,641. 4 Claims. (Cl. 164—88.)



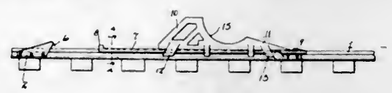
1. In an apparatus for perforating films, the combination of a punch, a die, a guide-pin for advancing the film, a head on which said guide-pin and punch are mounted, and means for imparting circular movement to said head carrying said punch and guide-pin so as to cause said punch and guide-pin to both perforate and by steps advance the film.

1,379,397. VULCANIZING AIR-BAG. OTTO W. DOLPH, Los Angeles, Calif. Filed June 11, 1920. Serial No. 389,761. 15 Claims. (Cl. 18—18.)



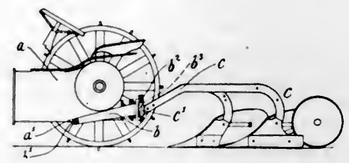
1. In a device of the character described, a flexible air bag closed at the ends and having a steam passage therethrough and closed against communication therewith.

1,379,398. CAR-STOP. JAMES U. DUFFY, Cleveland, Ohio. Filed Oct. 10, 1919. Serial No. 329,724. 6 Claims. (Cl. 104—260.)



1. In a car stop, the combination of two stop blocks attached to the rail, a channel iron slidably mounted on said rail between said blocks, a shoe slidably mounted on said channel iron and adapted to receive a car wheel, said shoe being adapted to slide in either direction with the car wheel and engaging with said stop block to limit its movement.

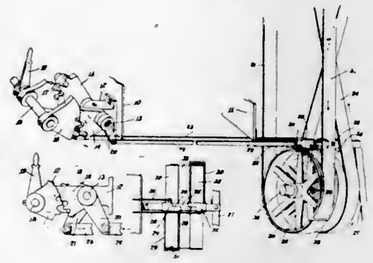
1,379,399. TRACTOR-HITCH. HARRY FERGUSON, Belfast, Ireland. Filed Dec. 30, 1919. Serial No. 348,438. 3 Claims. (Cl. 213—67.)



1. For connecting a tractor, having front and rear axles to an implement, or load, to be hauled thereby, a draft attachment comprising a support arranged forwardly of the rear axle and below the level thereof and a ball connected with the implement, or load, and also pivotally connected with said support so that it has vertical freedom of movement.

1,379,400. [WITHDRAWN.]

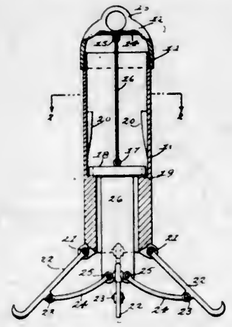
1,379,401. BELT-SHIFTER. GIACOMO FUMAGALLI, CARMINE SURICO, and PAUL CARDONE, New York, N. Y., assignors to Claremont Machine Co., New York, N. Y., a Corporation of New York. Filed May 13, 1920. Serial No. 381,096. 5 Claims. (Cl. 64—4.)



1. In a device of the character described, the combination with a pair of belt guides, of slide blocks supporting said belt guides and provided with interlocking recesses, means for shifting said guides comprising engaging complemental mutilated gear sectors, and means for actuating said sectors to shift either guide independently of the other.

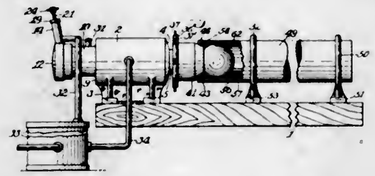
1,379,402. FISHING-TACKLE. KAROL GORLACH, New York, N. Y. Filed Jan. 21, 1921. Serial No. 438,867. 3 Claims. (Cl. 43—36.)

1. A device of the character described comprising a hollow sleeve, a headed element movably secured in said sleeve, guide elements within said sleeve normally holding said headed elements frictionally within said sleeve, hooks pivotally secured to said sleeve, links pivotally secured



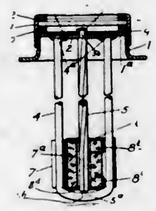
to said hooks and said headed element, and means for allowing a withdrawal of said element from said sleeve by an animal swallowing said hooks to spread the same in the mouth of the animal.

1,379,403. PNEUMATIC BALL-PROJECTOR. CHARLES R. GREEN, Indianapolis, Ind. Filed July 13, 1920. Serial No. 395,971. 7 Claims. (Cl. 124—8.)



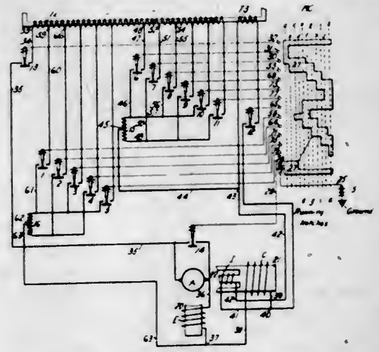
1. A pneumatic ball-projector including a rotatably-supported barrel and a breech block fixedly connected thereto, the barrel having a longitudinal groove in the inner side thereof, the breech block having a plurality of channels extending obliquely toward the groove, and means to control admission of a forceful fluid to the channels.

1,379,404. FLUID-GAGE. HERBERT HASTINGS, Brighton, N. Y. Filed Apr. 9, 1919. Serial No. 288,839. 6 Claims. (Cl. 73—82.)



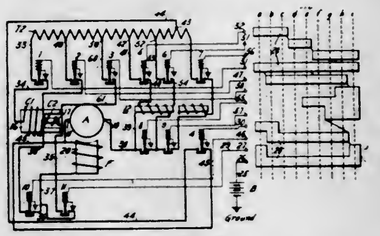
1. In a fluid gage, a tubular casing with an inturned flat flange provided with depressions separated by undepressed portions, a plate provided with ears adapted to seat in said depressions, a float mechanism supported on one side of said plate, a dial attached to the other side of said plate resting on said flange outside of the depressions and means for maintaining the dial on the flange and the plate in the depressions.

1,379,405. DYNAMO-ELECTRIC MACHINE AND SYSTEM OF CONTROL THEREFOR. RUDOLF E. HELLMUND and LAURENCE M. PERKINS, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1917. Serial No. 202,316. 7 Claims. (Cl. 171—228.)



1. In a system of control, the combination with a source of energy and a single-phase commutator motor comprising an armature, an exciting field winding and an inducing field winding having a larger number of turns than said armature and also having a large-span compensating coil and a more localized commutating coil located nearer the armature, of means for impressing voltages from said source upon the inducing-field-winding parts at times in such ratio that one of said parts carries a relatively high proportion of the total "magnetizing" current.

1,379,406. DYNAMO-ELECTRIC MACHINE AND SYSTEM OF CONTROL THEREFOR. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1917. Serial No. 202,700. 9 Claims. (Cl. 172—276.)

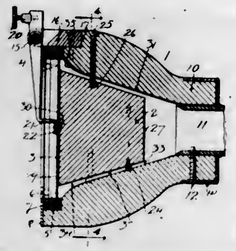


8. A single-phase commutator machine having a plurality of inducing-field-winding sections, said sections being differently distributed around the circumference of the field member, and means for connecting one of said sections in circuit during a certain condition of machine operation and for connecting all of said sections in circuit during a different condition of machine operation.

1,379,407. REPRODUCER FOR PHONOGRAPHS. CHARLES G. HENSLEY, Brooklyn, N. Y. Filed May 20, 1916, Serial No. 98,723. Renewed Oct. 4, 1919. Serial No. 328,608. 11 Claims. (Cl. 274—35.)

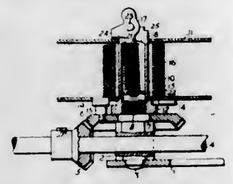
3. In a device for reproducing sounds, a wooden shell, a diaphragm for creating sound waves therein and an inner wooden member in said shell and spaced therefrom and from the diaphragm, whereby all waves created by the diaphragm will pass outwardly in the space between the diaphragm and said inner member and pass from the outer portion of the diaphragm between said shell and said inner member.

6. In a device for reproducing sound, a shell of wood and having a conically shaped interior chamber, a diaphragm, an inner member of wood of conical shape, arranged in said chamber and spaced from said shell, said inner member being solid and having a substantially flat face close to and parallel with the diaphragm.



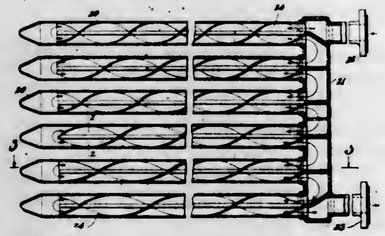
11. In a device for reproducing sound, a shell made of soft wood and having a tapering inner chamber and an outlet, a diaphragm for creating sound waves in the shell and a solid member of soft wood in the shell and spaced therefrom whereby waves produced by said diaphragm will travel around said inner member and between the latter and said shell and through said outlet.

1,379,408. RIBBON-SPOOL HOLDER FOR TYPEWRITING-MACHINES. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Original application filed Mar. 2, 1920, Serial No. 362,675. Divided and this application filed Jan. 5, 1921. Serial No. 435,222. 4 Claims. (Cl. 242—70.)



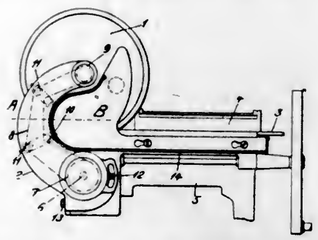
2. The combination of a ribbon spool, a hollow post on which said spool is journaled, a latch in said hollow post and projecting above said post, a spring tending to draw said latch down into said post, said latch being movable transversely of the axis of said post to bring a part of said latch over said ribbon spool to retain the latter in place and movable in the opposite direction to release said spool, and an abutment on the top of said post to hold said latch yieldingly in its spool-retaining position.

1,379,409. STEAM-SUPERHEATER. CHARLES A. HORN, Woodhaven, N. Y., assignor of one-fourth to W. Everitt Rundle, East Orange, N. J., and one-fourth to Harold E. Lombard, Bloomfield, N. J. Filed Sept. 13, 1919. Serial No. 323,508. 4 Claims. (Cl. 122—459.)



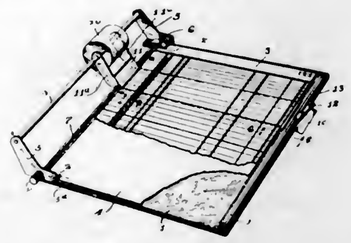
1. In a steam superheater, two tubes through which the steam flows in succession, and each having a twisted or helical partition to provide helical steam passages, the pitch of the partition in the second tube being greater than the first, and means serially connecting said tubes.

1,379,410. MEAT-SLICING MACHINE. CORNELIUS JOB LENSVELT, Zurich, Switzerland. Filed July 19, 1920. Serial No. 397,337. 4 Claims. (Cl. 17—24.)



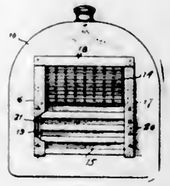
1. A meat slicing machine comprising in combination a frame, a reciprocating slide on said frame adapted to receive the meat to be sliced, a rotary knife, means to reciprocate said slide and to rotate said knife, a bracket having a journal in which said knife rotates, said bracket having an arcuated form, a rest adapted to receive a plate shaped in conformity to said bracket.

1,379,411. DEVICE FOR FORMING POSTING-SLIPS. FRED. L. MANNY, Benton Harbor, Mich., assignor to Baker-Vawter Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Oct. 2, 1917. Serial No. 194,350. 8 Claims. (Cl. 282—3.)



1. A device for forming posting slips comprising a platen arranged to support an entry sheet and an impression sheet, a rod adjacent the left hand margin of the margin of said platen, a second rod mounted on said platen adjacent said first-mentioned rod, said second rod being arranged to support a paper roll slidingly mounted thereon, a sliding guide engaging said rods and arranged to also engage said paper roll, and guide means adjacent the right hand margin of the platen for supporting the end portion of the paper of said roll transversely of the entry sheet.

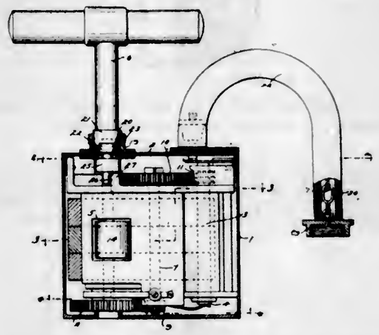
1,379,412. RADIATOR-COVER. EUGENE R. MERTENS, New York, N. Y., assignor to Detroit Cadillac Motor Car Company, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1919. Serial No. 273,197. 1 Claim. (Cl. 257—132.)



A radiator closure device for automobiles, comprising a frame adapted to fit around the radiator opening, and

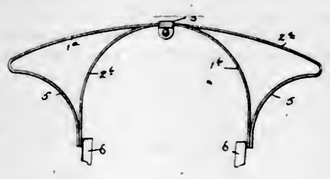
comprising lateral guide-ways, a collapsible bellows-like curtain positioned in collapsed condition at the bottom of the radiator opening, a weight bar arranged at the upper margin of the curtain to insure its collapse by gravity, guide means at the side of said curtain running in the lateral guide-ways of the frame, flexible lifting strands attached to the side margins at the top of the curtain for raising and lowering the latter, said strands lying within the lateral guide-ways of the frame, and means operable from the driver's seat for operating said strands to lift or lower the curtain in front of the radiator opening.

1,379,413. MAGNETO. EDWARD ALBERT NEW, Great Barrington, Mass., assignor to William W. Nicoll, New York, N. Y. Filed Nov. 28, 1919. Serial No. 341,108. 5 Claims. (Cl. 171—76.)



1. The combination with a magneto, a spring operating the magneto, and a shaft for winding the spring, of a handle adapted to turn the shaft, and a cam compelling longitudinal movement of the handle to release the same from the shaft when the latter reaches a predetermined position.

1,379,414. AUTOMOBILE-BUMPER. RICHARD T. NEWTON, New York, N. Y. Filed Mar. 12, 1920. Serial No. 365,188. 12 Claims. (Cl. 293—55.)



8. An automobile bumper comprising a pair of impact bars each having two supporting legs, each of said legs being offset intermediate its associated impact bar and ts point of suppórt.

1,379,415. NUT-LOCK. ALBERT O'CONNOR, Detroit, Mich. Filed Oct. 11, 1920. Serial No. 416,272. 2 Claims. (Cl. 151—29.)



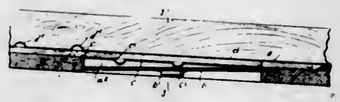
1. The combination with a threaded member and a nut for engaging the same, of a locking device formed of sheet metal having a slot extending inwardly from one side thereof of a width slightly less than the diameter of said threaded member at the bottom of the thread, said threaded member being provided with a single transverse slot adjacent to one face of the nut permitting the entrance thereof in the slot of the locking member, one side of which will lie parallel with the face of the nut and the other side of which will follow the channel of the thread at an angle thereto, one of said sides having a bendable portion for engaging the side of the nut.

1,379,416. BRASSIÈRE. ISIDORE PANES, New York, N. Y. Filed Aug. 3, 1920. Serial No. 400,946. 4 Claims. (Cl. 2—73.)



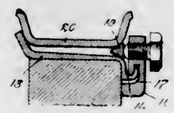
1. A brassière comprising a body, means connecting the lower part of the body to a person, and a pair of adjustable suspenders for supporting the upper part of the body, each of said suspenders having at one end a pair of strips, a link adapted to be pivotally connected with said body through which one of said strips is adapted to be passed, said last mentioned strip being looped back upon itself, a plurality of eyelets arranged on said looped back portion, and a hook secured to the other of said strips, said hook being adapted to interlock with any of said eyelets according to the length of shoulder strap desired.

1,379,417. CONCENTRATOR. JOHN W. POLLOCK, Sawtelle, Calif. Filed Jan. 22, 1920. Serial No. 353,375. 4 Claims. (Cl. 83—68.)



1. A concentrator comprising a longitudinally inclined sluice having a transversely inclined, longitudinally horizontal cavity in its bottom wall and a discharge passage in one of its side walls at the lower side of said cavity, an amalgamating tray disposed in said inclined cavity to permit of the discharge therefrom, through said discharge passage and to effect an equal distribution of values deposited thereon, and a riffled screen covering the cavity and superposed to the amalgamating tray.

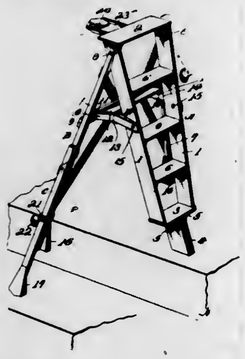
1,379,418. DEMOUNTABLE RIM FOR AUTOMOBILE-WHEELS. JOHN N. POWERS, Washington, D. C., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed Aug. 13, 1919. Serial No. 317,136. 9 Claims. (Cl. 301—20.)



5. In a vehicle wheel, the combination of a fixed rim having a hook-shaped extension at one side, a removable

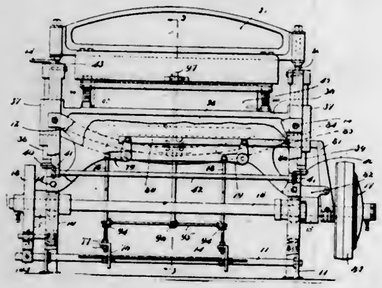
rim, members each having recesses receiving the hook-shaped extension to interlock the members to the fixed rim and permitting adjustment of the members circumferentially of the rim, and means carried by each member operable transversely of the fixed rim against an element to set and lock the removable rim in position.

1,379,419. STEPLADDER. MADISON W. REEVES, Sayre, Pa. Filed June 16, 1920. Serial No. 389,317. 5 Claims. (Cl. 228—61.)



1. A step ladder of the class described, having an extension leg, said leg provided at one end with an L-shaped plate and a flat plate attached to opposite edges thereof, and the other end of said leg provided with a clamp for embracing both the extension leg and the ladder leg.

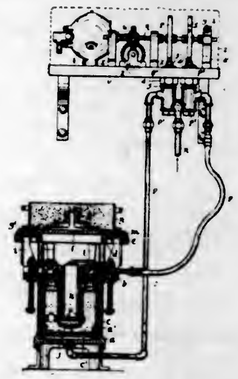
1,379,420. LEATHER-CUTTING MACHINE. CHARLES ADRIAN SAWYER, Jr., Newton, Mass. Filed May 12, 1920. Serial No. 380,799. 3 Claims. (Cl. 164—23.)



1. In a leather working machine of the kind described, the combination of a reciprocable cutter head, a rotatable shaft for reciprocating said head, a slidable carrier for positioning a sheet of sole leather in the path of movement of said head, means for intermittently connecting said shaft to a source of power, and a safety device for said means operable by the slidable carrier only when the sheet of leather is in position under the cutter head.

1,379,421. CONTROL MEANS FOR MOLD-MAKING MACHINES. CHARLES G. SHAFFER, Paterson, and GEORGE TREFS, Montville, N. J. Filed Jan. 14, 1921. Serial No. 437,344. 4 Claims. (Cl. 22—45.)

1. In combination, with the fluid actuated moving element of a mold making machine, a fluid source and means to transmit fluid from said source and cause it to actuate said element including a fluid conductor, means to alternately check and release the flow through said conductor including a constantly going master member.

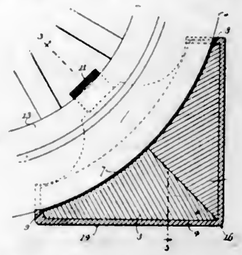


1,379,422. FISHHOOK. ALFRED FERDINAND THORSTEN, Brooklyn, N. Y. Filed June 5, 1920. Serial No. 386,736. 7 Claims. (Cl. 43—34.)



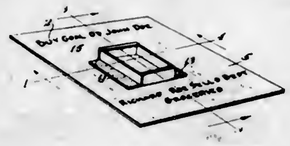
1. A device of the class described, including a pair of shanks of rigid material arranged adjacent one another, one or said shanks being formed with a plurality of loops, the second of said shanks being slidably mounted within said loops, and hooks secured one to each of said shanks.

1,379,423. AUTOMOBILE-WHEEL-LOCKING DEVICE. LESLIE E. TRIMM, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,358. 2 Claims. (Cl. 70—90.)



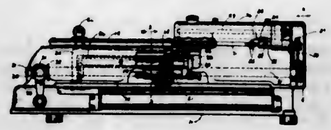
1. A chock block for automobiles comprising, a metal casing having a pair of right angular elongated faces, and vertical sides, a filler of wood in the casing and having an arc-shaped face, a metal arc-shaped plate secured to the casing in engagement with the arc-shaped face of the wooden filler, and means for securing the casing to the rim of a wheel.

1,379,424. SAFETY-MATCH TRAY. ANTHONY A. TUBBS, Hammond, Ind. Filed Oct. 13, 1919. Serial No. 330,355. 4 Claims. (Cl. 206—31.)



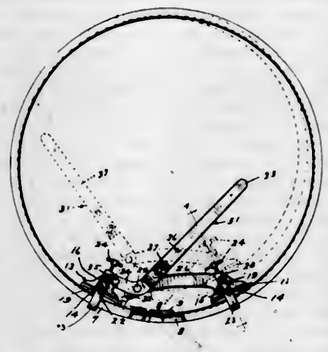
1. A safety match tray comprising a flat metal sheet having relatively wide marginal portions and having a pair of uprights struck up from the central portion of the metal sheet, said uprights being spaced apart and being parallel with each other and each being provided with a flange at its upper end extending toward the opposite upright, the openings formed by the struck up portions separated by an intervening integral portion of the plate, and an open box having its ends extending underneath said flanges for holding a sheet containing striking portions in position.

1,379,425. CHECK-WRITER. WILLIAM UHL, Rochester, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 22, 1919. Serial No. 325,503. 12 Claims. (Cl. 101—351.)



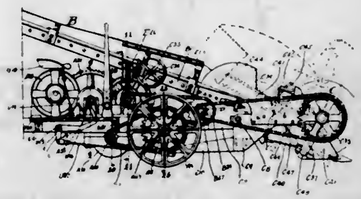
1. In a machine of the class described, the combination with a printing couple, of an ink reservoir, means comprising a member having a reciprocatory movement for drawing ink from the reservoir and feeding it to the printing couple, a movable element provided with a cam groove, a pin engaging said groove and rigid with the reciprocatory member, and means for actuating said movable element by operations of the printing couple.

1,379,426. RIM CONTRACTOR AND EXPANDER. OSCAR H. UVAAS, Kensington, Minn. Filed Jan. 12, 1918. Serial No. 211,644. 12 Claims. (Cl. 157—1.)



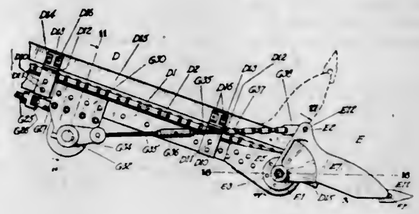
1. A rim contractor and expander comprising rim-engaging members adapted to engage the ends of a transversely divided rim, an arm rigid with one of the rim-engaging members, and an operating lever pivoted to the other rim-engaging member and to the free end of the rigid arm for imparting radial and circumferential movements to the rigid arm with respect to the rim center.

1,379,427. LOADING-MACHINE. WILLIAM WHALEY, Knoxville, Tenn. Filed Nov. 26, 1917. Serial No. 204,032. 6 Claims. (Cl. 214—90.)



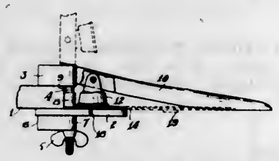
1. In a loading machine, the combination of supporting wheels, a motor, means controlled by the operator for placing said motor into operative relation with a portion of said wheels for driving the latter, power-driven means controlled by the operator for varying the direction of a portion of said wheels for steering the machine, a conveyer extending from the forward part of the machine upward and rearward beyond the rear end of the body of the machine, an elevated magazine supported by the upper end of the conveyer in position to receive material from the conveyer, a yoke hinged to and supported by the body of the machine, and projecting forward of said body and rearward of the hinge and under said body, an upright, non-rotatable screw shaft coupled to the rear part of the yoke, nut mechanism surrounding said shaft above the yoke and seated on a relatively stationary part of the machine, manual means located on the body of the machine and comprising gearing for actuating said nut mechanism for raising and lowering said screw shaft, and means at the front of said yoke for taking material from the floor and discharging it upon the conveyer, substantially as described.

1,379,428. SHOVELING-MACHINE. WILLIAM WHALEY, Knoxville, Tenn., assignor to said William Whaley, trustee. Filed Sept. 8, 1919. Serial No. 322,263. 15 Claims. (Cl. 214—90.)



1. In a machine of the nature described, the combination of a conveyer hinged on a horizontal axis to the body of the machine rearward of its forward end and having its forward end extending forward of the body of the machine and near the floor level, a shovel hinged to said end of the conveyer on an axial line which is horizontal and transverse to the conveyer and is stationary relative to the conveyer, and operator-controlled power means for turning the shovel upward and permitting it to descend by gravity to a chosen position and there arresting and supporting the shovel, substantially as described.

1,379,429. BOTTLE-CAPPING DEVICE. FREDERICK G. YAWMAN, Rochester, N. Y. Filed Jan. 12, 1920. Serial No. 350,787. 4 Claims. (Cl. 226—84.)



1. In a bottle capping machine, the combination with a plate provided with a recess, of a holding lever pivoted to the upper side of the plate to bridge the recess and to project from one edge of the plate, and means mounted on said plate for capping a bottle.

1,379,430. PRINTING-PLATE AND METHOD OF MAKING THE SAME. WILLIAM J. YEOELL, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Aug. 12, 1913. Serial No. 784,456. 21 Claims. (Cl. 101—395.)



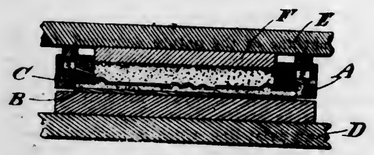
1. A printing plate comprising a laminated body composed of layers of different materials, one of said layers comprising a hard, set and substantially infusible reacted plastic, one face of the laminated body having printing characters thereon to constitute a printing face.

1,379,431. PRINTING-PLATE MATRIX AND METHOD OF MAKING THE SAME. WILLIAM J. YEOELL, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Apr. 25, 1916. Serial No. 93,493. 8 Claims. (Cl. 46—25.)



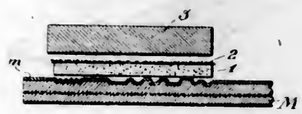
1. A matrix comprising a body portion, including a layer of fibrous material and a layer of hard and set synthetic resin imposed upon the fibrous layer, and a metallic molding face imposed upon the layer of synthetic resin.

1,379,432. PRINTING-PLATE AND METHOD OF MAKING THE SAME. WILLIAM J. YEOELL, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Original application filed Apr. 25, 1916, Serial No. 93,493. Divided and this application filed Dec. 2, 1920. Serial No. 427,831. 10 Claims. (Cl. 101—395.)



1. A composite printing plate comprising a printing face section of a hard synthetic resin provided with printing characters, and a non-resinous, non-flowing backing section permanently united with said face section.

1,379,433. WOODEN-BACK PRINTING-BLOCK. WILLIAM J. YEOELL, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Original application filed Apr. 25, 1916, Serial No. 93,493. Divided and this application filed Dec. 2, 1920. Serial No. 427,832. 9 Claims. (Cl. 101—395.)



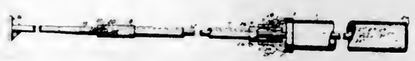
1. A printing block comprising a base of wood and a printing plate of synthetic resin imposed upon the wood base with a portion of the synthetic resin penetrating the pores of the wood base and uniting said plate and base.

1,389,434. PRINTING-PLATE MATRIX AND METHOD OF MAKING THE SAME. WILLIAM J. YEOELL, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Original application filed Aug. 12, 1913, Serial No. 784,456. Divided and this application filed Dec. 2, 1920. Serial No. 427,833. 16 Claims. (Cl. 41—25.)



1. A matrix for making printing plates comprising a sheet metal molding face, a fibrous blanket treated with a shellac substance applied to the back of the sheet metal molding face, and a layer of hard cementitious material applied to the back of the blanket, said blanket and hard cementitious layer forming a backing for the sheet metal molding face.

1,379,435. COMBINATION SCRAPER, CHARGER, AND TAMPER. THOMAS JAMES AVERY, Albia, Iowa. Filed Aug. 4, 1920. Serial No. 401,260. 4 Claims. (Cl. 86—21.)



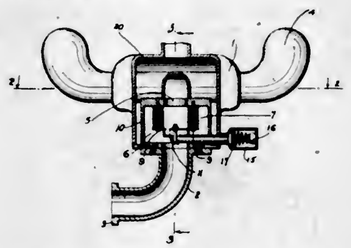
1. A device of the character described comprising a cylindrical non-ferrous barrel, a non-ferrous plunger slidable in said barrel and provided with a rearwardly extending shank, a non-ferrous sleeve, a non-ferrous coupling carried at the forward end of said sleeve, a rod extending through said sleeve and having its forward end hinged to the end of the plunger shank, means for hingedly connecting the rearward end of said cylinder to said coupling to permit said cylinder to be swung upwardly into a position at right angles to said coupling when said plunger is in its retracted position, a tamping member having a stem removably secured to the rearward end of said rod, a stud projecting from the last named stem at a spaced distance from the end thereof, a coupling carried on the rearward end of said sleeve, said coupling being formed with a slot through the wall thereof adapted to receive said stud when the rod is moved forwardly through the sleeve, said slot being extended longitudinally a spaced distance and then circumferentially wherefor the plunger may be moved forwardly through the cylindrical barrel until the forward end thereof projects beyond the end of the latter, and spring means carried by the stem of said tamping member for engaging with the walls of the slot to normally maintain the stud in the circumferentially extending portion thereof.

1,379,436. FUSE-PLUG. ERNEST H. BAXTER, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 336,910. 15 Claims. (Cl. 200—130.)



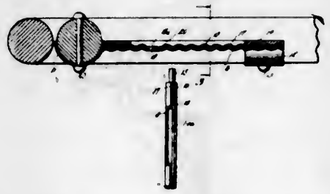
1. A fuse plug of the character described comprising a body member, a removable cover therefor, a screw threaded sleeve on said body member, and means to clamp a fuse mounted between said sleeve and said body member.

1,379,437. GAS-MIXER. CLARENCE H. BENNETT, Jamesburg, N. J. Filed Apr. 1, 1919. Serial No. 286,642. 10 Claims. (Cl. 48—180.)



1. A vaporizer comprising a casing having a mixture inlet and outlet opening, a series of similar annular plates within the casing and arranged in such proximity to each other as to effect a fine breaking up and vaporizing of the mixture on its passage between them, the said annular plates being formed with central openings coinciding with each other and with the outlet opening forming a central space in communication with the said outlet opening, the outer edges of the plates being spaced from the casing to permit the passage of the mixture between the outer edges of the plates and thence into the central chamber, the end of said central chamber opposite the outlet opening being closed against the passage of the carbureted mixture whereby to force the passage of such mixture between the outer edges of said plates in its course to the central chamber and thence to the outlet.

1,379,438. AUTOMOBILE-PLATE AND HOLDER. JOSEPH BILLINGS, Brooklyn, N. Y. Filed July 8, 1920. Serial No. 394,690. 5 Claims. (Cl. 40—61.)



1. As a new article of manufacture, a stop-thief attachment for vehicles including a combined rigid plate and holder therefor, the plate presenting a front adapted to display warning matter, and a cover slidably fitting said holder to conceal said matter, said holder having guide members for the sliding engagement of the cover and presenting a space of irregular form for the latter, said cover having members mating with the irregular form of the holder.

1,379,439. WIND-WHEEL. JOSEPH—BOTT, Rochester, N. Y., assignor to Bastian Bros. Company, Rochester, N. Y., a Corporation. Filed Sept. 22, 1919. Serial No. 325,391. 6 Claims. (Cl. 170—8.)



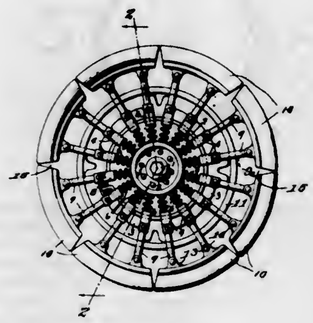
1. A wind wheel formed from a blank of sheet material having between its blade producing portions slits with curved parallel walls.

1,379,440. PAVING-BLOCK. FRANK E. BRAINERD, Stony Creek, Conn. Filed July 29, 1920. Serial No. 399,968. 1 Claim. (Cl. 94—11.)



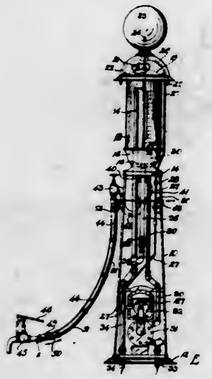
A paving block having its corners inwardly tapered and formed in its side walls with V-shaped tapered notches widest at their lower ends and also formed with a series of openings extending through the body of the block.

1,379,441. VEHICLE-WHEEL. JAMES A. CARTER, St. Louis, Mo. Filed Nov. 15, 1919. Serial No. 338,175. 5 Claims. (Cl. 152—31.)



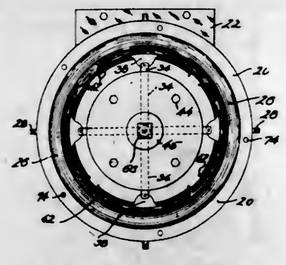
4. A wheel comprising a hub, a radially grooved annular web upon the hub, an annular series of springs carried by the hub on each side of the web, saddles seated upon the springs and disposed for yielding movement in the grooves of the web, radial spokes fixed to the saddles, an annular series of tread-members carried by the spokes, bands embracing all the saddles for preventing displacement of the saddles relatively to the web and springs, and an annular band engaging all the spokes for retarding lateral movement thereof and their carried tread-members relatively to the hub.

1,379,442. GASOLENE-DISPENSER. EMORY CROUSE, Wichita, Kans. Filed Feb. 12, 1921. Serial No. 444,387. 3 Claims. (Cl. 221—99.)



1. A liquid dispensing apparatus comprising a container, a liquid supply from which to fill said container, means operable to cause liquid to be moved from said supply to the container, a flexible conduit for discharge of liquid from said container, a valve on the outer end of said conduit to control said discharge, and means adjacent said valve to control said operable means, whereby filling of said container may be controlled from said outer end of said flexible conduit.

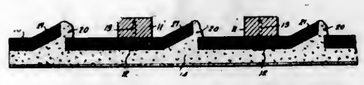
1,379,443. SHOCK-ABSORBING MECHANISM. TIMOTHY C. DOBBINS, Los Angeles, Calif., assignor of one-half to David H. Roby, Denver, Colo. Filed Apr. 26, 1920. Serial No. 376,511. 5 Claims. (Cl. 267—9.)



5. In combination, a shell member having a bearing face therewithin, resilient means engaging said bearing face, a rotatable member within said shell member, blocks radially positioned on said rotatable members, shoes pivotally mounted on the outer ends of said blocks and engaging said resilient means, the inner ends of said blocks being tapered, and an axially mounted tapered pin adjustable axially to adjust the position of the blocks and the pressure of the shoes on the resilient means, means for connecting one member with a support and means for connecting another support with the other member.

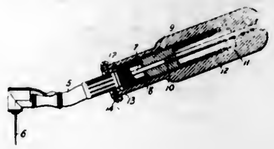
1,379,444. PLASTER-BOARD. THOMAS H. A. HOWLEY, New York, and JOHN J. DOOLEY, Brooklyn, N. Y. Filed Oct. 25, 1919. Serial No. 333,215. 3 Claims. (Cl. 72—124.)

1. A plaster board provided with slits in spaced relation and forming tongues, the slits extending through the board and the tongues being normally flush with the faces of the plaster board and lying within the openings defined by the slits, the tongues moving into an angular position on the back of the plaster board on applying plaster to the face thereof, each of the said tongues on assuming an



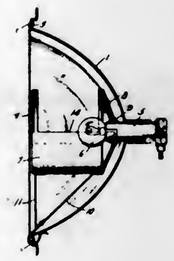
angular position forming a keyway in the corresponding opening, the wall of each opening forming with the edge of the corresponding angular tongue, a locking means for the plaster passing through the opening onto the back of the plaster board and onto the edge of the tongue.

1,379,445. DENTAL TOOL. FELICIANO GONZALEZ, New York, N. Y. Filed Mar. 9, 1921. Serial No. 451,066. 6 Claims. (Cl. 32—11.)



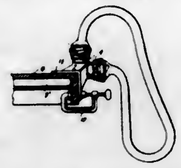
5. A dental tool, including a handle, a sleeve forming a part of said handle, said sleeve presenting cutout portions, means attached to said sleeve for engaging a normally mechanically driven chuck, and a stem rotatably secured to said handle and engaging a cap having a portion of its body lying within said sleeve, said cap engaging the stem of said chuck.

1,379,446. HEADLIGHT. HARRY F. HAMMOND, South Shaftsbury, Vt., assignor to Nicholas A. Siraco, Whitehall, N. Y. Filed Mar. 29, 1920. Serial No. 369,723. 4 Claims. (Cl. 240—48.2.)



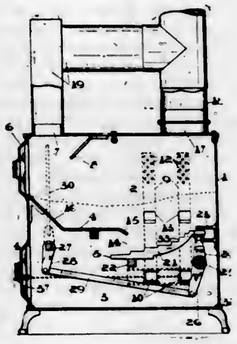
1. An attachment for headlights comprising a body of general cylindrical form including a tapering inner end adapted to inclose a lamp, said body composed of colored transparent material, said body having a semi-cylindrical cutaway portion in its upper side, and having a semi-circular opening in the lower half of the outer end.

1,379,447. VULCANIZER. EDGAR D. HOSTLER, I. J. HAMIEL, and CARL H. MATHER, Tipton, Iowa, assignors of one-half to said Hostler, one-fourth to said Hamiel, and one-fourth to said Mather. Filed Aug. 4, 1920. Serial No. 401,099. 8 Claims. (Cl. 18—42.)



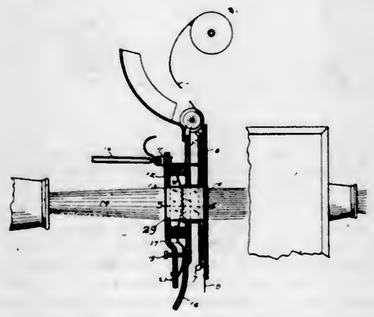
1. A vulcanizer, comprising a heating base, an upwardly projecting tubular portion on the base having an exterior vulcanizing surface, and said tubular portion having an entrance thereto for the accommodation of a tube section to be vulcanized.

1,379,448. FURNACE. ROBERT W. KING, Toronto, Ontario, Canada. Filed Nov. 1, 1919. Serial No. 334,912. 6 Claims. (Cl. 110—24.)



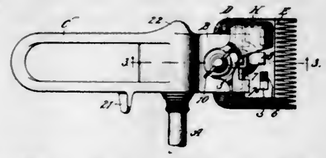
1. In a furnace the combination of an imperforate primary fuel support; a secondary fuel support behind the primary fuel support; means for admitting air into the body of the fuel on the secondary fuel support; means for supplying air above the fuel at the rear of the furnace; and a smoke outlet at the front of the furnace above the primary fuel support.

1,379,449. COMBUSTION-ARRESTER FOR MOVING-PICTURE MACHINES. REINHART J. KOEPP, Cleveland, Ohio. Filed Sept. 1, 1920. Serial No. 407,519. 12 Claims. (Cl. 88—17.)



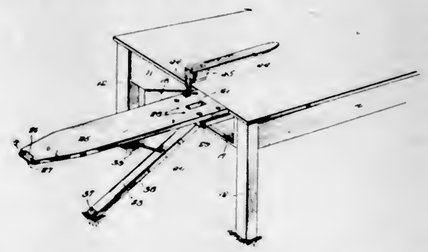
1. The combination with a film projection means, of a flame arrester comprising a box having open ends and adapted to surround the projection rays, the inner end of the box being adjacent the film, and a pair of flaps at the inner end of the box extending therefrom adjacent to and longitudinal of the film.

1,379,450. POWER-OPERATED HAIR-CLIPPER. WALTER F. KOKEN and GEORGE G. ANDERSON, St. Louis, Mo., assignors to Koken Barbers' Supply Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 12, 1919. Serial No. 289,544. 6 Claims. (Cl. 30—1.)



1. A power operated hair clipper provided with a body portion, a movable cutter arranged at the front end of said body portion, an operating mechanism for said movable cutter comprising a rotatable drive shaft that extends laterally or sidewise from said body portion at a point between said handle and movable cutter, and means operated by said rotatable drive shaft for actuating said movable cutter.

1,379,451. COMBINED TABLE AND IRONING-BOARD. OTTO F. KRAHN, Loyal, Wis. Filed Apr. 28, 1919. Serial No. 293,145. 4 Claims. (Cl. 68—10.)



3. A device of the character described including a table, an ironing board, spaced blocks carried by the board near its inner end, means adjustably connecting said blocks to the board, and means engaged with the blocks and pivotally connecting the board with the table for movement to inactive position lying therebeneath or for movement to active position projecting from the table.

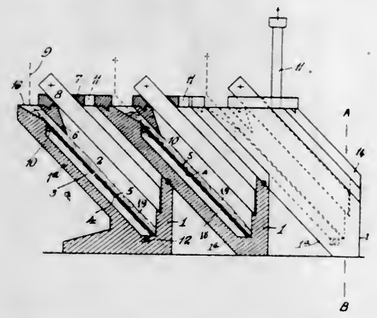
1,379,452. DETACHABLE HEEL. MOSES LAMPKIN, St. Louis, Mo. Filed May 7, 1920. Serial No. 379,564. 1 Claim. (Cl. 36—42.)



The combination with a shoe heel having an undercut socket or seat formed in the bottom surface thereof, said seat having an entrance opening at the front wall of the heel, of a heel lift conforming in shape to the bottom of the heel and having a projection on the top thereof, said projection having a peripheral outstanding, locking flange to be engaged in said seat, the front end of the lift lying

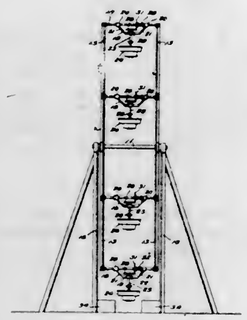
substantially flush with the front of the heel, and a keeper-plate adapted to bear against the front of the projection to hold the lift in said seat, said plate having an upstanding arm with a longitudinal slot for the reception of a screw entering the front wall of the heel to bind the plate in position.

1,379,453. APPARATUS FOR THE ELECTROLYSIS OF SOLUTIONS OF METAL SALTS. JOHANN KONRAD LANGHARD, Fredriksstad, Norway, assignor to Fredriksstad Elektrokemiske Fabriker A/S., Fredriksstad, Norway. Filed Feb. 6, 1920. Serial No. 356,652. 9 Claims. (Cl. 204—58.)



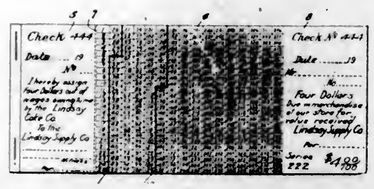
1. In an electrolytic cell, a layer of loose granulated material separating the anode and cathode chambers, and supporting means for said material arranged at such an angle of inclination that granular material supplied thereto is distributed by gravity over the lower parts thereof.

1,379,454. AMUSEMENT DEVICE. ROY S. LINDAMOOD, Galveston, Tex. Filed Mar. 12, 1920. Serial No. 365,212. 1 Claim. (Cl. 46—27.)



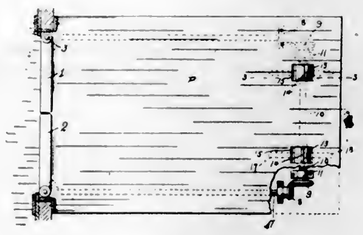
An amusement device comprising a rotatably mounted main frame including transversely disposed horizontal shafts arranged around said frame in spaced relation, a suspending frame carried by and capable of rotation about said shaft, a car supported by the suspending frame, a shaft having a bearing in the suspending frame and connected to said car, a slidably mounted spring actuated gear mounted against rotation upon the transverse shaft and a gear secured to the car carrying shaft, whereby rotation of the main frame will impart a horizontal rotary movement to the car, and means for tensioning the spring to control the speed of rotation of the car.

1,379,455. STORE COUPON-CHECK. FRANKLIN G. LINDSAY, Dunbar, Pa., assignor to Mardorff Printing Company, Inc., Brownsville, Pa. Filed July 26, 1919. Serial No. 313,455. 1 Claim. (Cl. 283—60.)



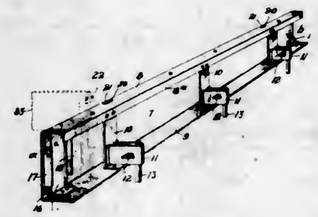
A store coupon check comprising a merchant's stub, a due bill, and coupons between the stub and due bill, said coupons being arranged in blocks formed by vertical and transverse lines to constitute vertically arranged columns in which the units of the sum total for which the check is made are successively imprinted, the smallest unit being arranged in the upper block next to the merchant's stub, and the largest unit being arranged in the lower block of the last column next to the due bill, the coupon sheet designed to be detached by severing the coupon sheet on the vertical divisions of the columns and on the transverse division at the lower edge of the block in which there is designated the unit indicating the sum of a purchase drawn by the holder of the due bill from a merchant, the due bill and the portion of the severed coupons being retained by the holder and maker of the check, while the stub and the remaining coupons thereon being retained by the merchant, whereby both the merchant and the maker of the check will have knowledge of the transaction, and additional coupons detached from the sheet held by the maker of the check designed to be attached to or arranged with the coupons on the stub held by the merchant, whereby both parties to the transaction will have knowledge of the sum still due the holder of the check and the amount payable thereon by the holder of the stub and detached coupons.

1,379,456. DOOR-OPENING MECHANISM. JOSIAH LINVILL, Bethany, Mo. Filed Aug. 3, 1920. Serial No. 401,035. 3 Claims. (Cl. 268—8.)



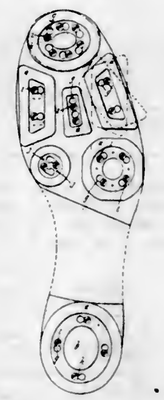
1. A door opener of the class described comprising a rotatably mounted shaft having lugs extending radially therefrom, a sleeve encompassing said lug carried portion of the shaft and provided on its inner face with recesses to receive the lugs, said recesses being of a length greater than the width of the lugs to permit the sleeve to move independently of the shaft, an arm extending radially from said sleeve and adapted to be positioned in the path of a passing vehicle, springs supporting said sleeve and operable to return it to initial position after actuation, and door actuating means connected with said shaft operable by the depression of said arm.

1,379,457. ROAD RAIL OR FORM. HOWARD B. LOXTERMAN, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 7, 1919. Serial No. 295,282. 20 Claims. (Cl. 25—118.)



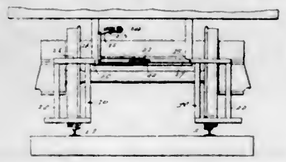
1. A road rail or form comprising a channel having upper and lower flanges and a stiffening means interposed between and secured to the flanges and spaced away from the web of the channels.

1,379,458. BOOT-PROTECTOR. THOMAS RICHARD LULHAM, Johannesburg, South Africa. Filed Oct. 23, 1919. Serial No. 332,808. 8 Claims. (Cl. 36—36.)



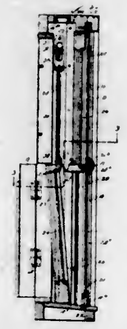
1. A boot protector comprising pad and clamping elements separable from each other and having co-acting apertures therein, said elements being secured to the boot by a plurality of screws passing through said apertures, and the apertures in the clamping elements being in the form of key-hole shaped slots, substantially as described.

1,379,459. SAFETY AIR-BRAKE DEVICE. FLOYD B. MCDANIEL, Salem, Va. Filed Oct. 21, 1919. Serial No. 332,264. 1 Claim. (Cl. 246—171.)



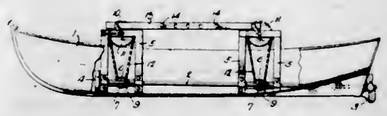
In a safety device, the combination with a car having a train pipe release valve, of shoes consisting of open frames disposed in transverse planes relative to the car track and car wheels adjacent the planes of the latter and having their lower edges disposed slightly above the planes of the rail treads, the upper sides of the shoes being extended laterally to provide overlapping levers, one of which carries a laterally projecting pin and the other of which is formed with a longitudinal slot in which the said pin engages, an arm connected with the release valve for the operation thereof, and a link having one end pivotally connected to said arm and the other end pivotally connected to one of the lever extensions from said shoes.

1,379,460. WINDOW. ARCHIBALD MACKINNON, Tuckahoe, N. Y. Filed June 3, 1920. Serial No. 386,213. 10 Claims. (Cl. 20—43.)



1. A window including a frame, sliding sashes therein, and suspension means pivotally connected with the sashes to permit the latter to turn about horizontal axes, said frame having parting strips formed with recesses at the sides toward the lower sash to permit the latter to be turned at an angle to its normal plane of movement to provide thereby a ventilating opening between the meeting rails of said sashes.

1,379,461. PROPELLER-ROTATING DEVICE. JOHN E. MANAS, Princeton, N. J. Filed Apr. 5, 1920. Serial No. 371,319. 2 Claims. (Cl. 115—24.)

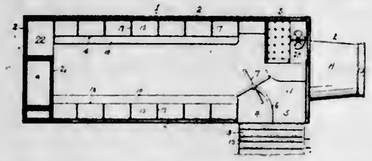


1. Propelling means for boats comprising a propeller shaft, a propeller thereon, upright frames in the boat, a stub shaft journaled in the lower part of each frame, gears connecting each shaft with the propeller shaft, a crank shaft journaled in the upper part of each frame, means for driving the stub shafts from said crank shafts, a longitudinally extending rod connected with the cranks of the crank shafts, and handles engaging parts of said rod for reciprocating the rod.

1,379,462. GAS-PURIFYING COMPOSITION AND METHOD OF MAKING SAME. HUBERT CLIFTON MARRIS, Bolton, England, assignor to William Walker and Sons Limited, Bolton, England, an English Company. Filed Sept. 15, 1920. Serial No. 410,554. 5 Claims. (Cl. 183—118.)

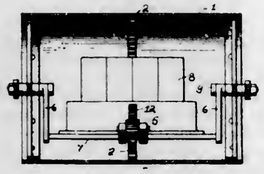
1. The method of preparing a purifier for gas which comprises precipitating an iron compound on a fibrous cellular support by an alkaline solution containing a dissolved colloid.

1,379,463. PORTABLE GROCERY-STORE. CLYDE W. MARTIN, Little Rock, Ark., assignor of one-half to Leonard E. Hoffman, St. Louis, Mo. Filed June 18, 1920. Serial No. 389,908. 1 Claim. (Cl. 296—24.)



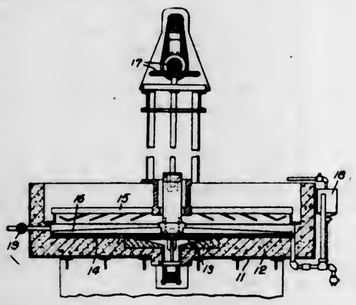
A portable automobile store including a compartment having a central aisle with article supporting means on opposite sides thereof, a driver's compartment at the front corner of said store, a customer's entrance and exit passages parallel with each other at the corner opposed to said driver's compartment and opening through the side of the main compartment, the exit passage being arranged adjacent the driver's compartment with a cash counter and checking table between it and said compartment whereby the driver may serve as a chauffeur, a checker and a cashier and a common turnstile across the inner ends of said passages controlling said entrance and exit.

1,379,464. TRACTOR. JOHN J. MARTIN, Dallas, Tex. Filed Dec. 19, 1919. Serial No. 345,954. 2 Claims. (Cl. 180—10.)



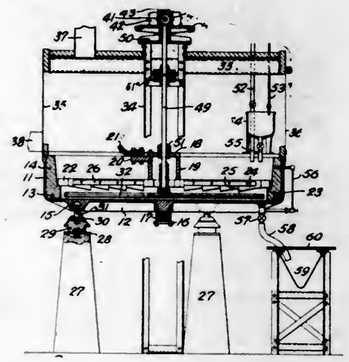
1. In a tractor, the combination of a cylinder, crossbars formed on the cylinder, shafts secured to the bars, a frame suspended in the cylinder by the shafts, a power plant mounted on the frame, pinions arranged on the frame, a gear extending around the interior of the cylinder and adapted to mesh with the pinions, gears arranged adjacent the frame and adapted to be driven by the power plant and adapted also to mesh with the pinions to impart motion thereto and a bar journaled on the shaft.

1,379,465. PROCESS OF OXIDIZING MERCURY. HOWARD W. MATHESON, Shawenegan Falls, Quebec, Canada. Filed Dec. 4, 1917. Serial No. 205,378. 4 Claims. (Cl. 204—9.)



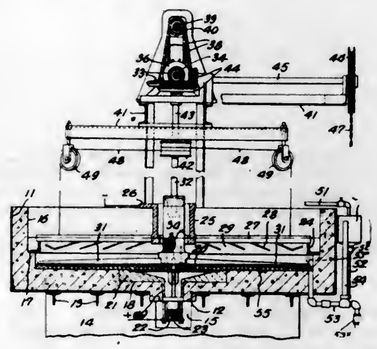
1. A process of oxidizing mercury which comprises using metallic mercury as the anode of an electrolytic cell in connection with a cathode formed of a metal of the iron family and a continuously agitated electrolyte, and periodically agitating the electrolyte with increased violence.

1,379,466. ELECTROLYTIC CELL. HOWARD W. MATHESON, Shawenegan Falls, Quebec, Canada. Filed Apr. 15, 1918. Serial No. 228,675. 10 Claims. (Cl. 204—5.)



3. In a device of the class described, an electrolytic cell, a measuring tank mounted on the cell having a valve controlled discharge leading thereinto, drainage outlet from the cell and a fluid level gage between the outlet and the upper portion of the cell arranged to indicate the level of liquid admitted from the tank.

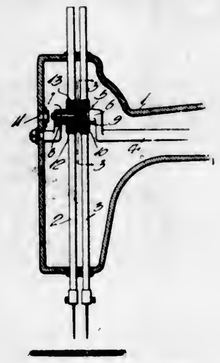
1,379,467. ELECTROLYTIC CELL. HOWARD W. MATHESON and FREDERICK T. KAELIN, Shawenegan Falls, Quebec, Canada. Filed Apr. 15, 1918. Serial No. 228,677. 12 Claims. (Cl. 204—5.)



1. In a device of the class described, a receptacle, an anode in the bottom thereof, a cathode supported in the shell above the anode, and means for raising and lowering the cathode including a winding drum, a plurality of cables connected to said drum and to equidistant points on the cathode, and means for rotating the drum.

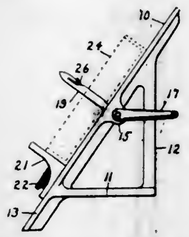
1,379,468. SEWING-MACHINE. EDGAR C. MATSON, Handley, W. Va., assignor to J. A. B. Holt, Pratt, W. Va. Filed Feb. 12, 1920. Serial No. 358,304. 5 Claims. (Cl. 112—221.)

1. In a multiple needle sewing machine, a support, a rotary shaft journaled therein and provided at one end with a crank-pin, a member rotatable in said support, its axis of rotation being in alinement with that of the shaft and it being provided with a crank-pin adapted to aline with the first named crank pin, needle bars carried by



said crank pins, and means also carried by one of the crank-pins for coupling it with the other crank-pin to cause both needle bars to operate in unison or one of them alone.

1,379,469. BOX-TAPING MACHINE. LOUIS P. MILLER and FRANK E. JOHNSTON, Phoenixville, Pa. Filed Oct. 16, 1920. Serial No. 417,494. 6 Claims. (Cl. 93—36.)



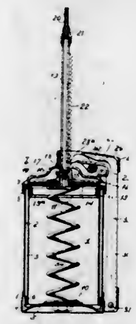
1. A box taping machine comprising a slotted face plate, a screw journaled on the face plate, blocks carried by the screw to be moved toward or away from each other in the operation of the screw, said blocks operating in said slots, needles carried by the blocks and projecting upwardly beyond the slots and the face plate, and a rest adjustably mounted on the face plate.

1,379,470. ART OF CONCENTRATING GRAPE-JUICE. EUDO MONTI, Turin, Italy. Filed Mar. 28, 1919. Serial No. 285,905. 7 Claims. (Cl. 99—5.)

1. The process of treating grape juice, which comprises concentrating a quantity of juice to a specific weight of the order of 1380 grams per liter at a temperature not exceeding 40° C., concentrating another quantity of juice to a specific weight of the order of 1200 grams per liter by freezing it in contact with air, keeping said last-mentioned quantity of juice subjected to a cold temperature and in contact with air until set, and then mixing together the two quantities of juice and allowing the mixture to set.

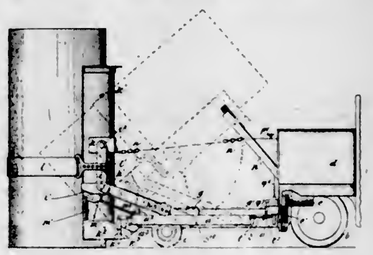
7. The process of treating grape juice, which comprises concentrating the juice to a specific weight of the order of 1200 grams per liter by freezing it in contact with air, keeping the juice subjected to a cold temperature and in contact with air until set, further concentrating a portion of the juice to a density of the order of 90% dry extract at a temperature not exceeding 40° C., mixing the remainder of the juice first mentioned with the syrup formed by the last-mentioned step of the process so as to produce a mixture comprising 75 to 80% of dry extract, and permitting the mixture to crystallize out in a product having the consistency of honey and the flavor of grape juice.

1,379,471. HAND-OILER. GEORGE M. MOOD, Charleston, S. C. Filed Aug. 9, 1920. Serial No. 402,203. 4 Claims. (Cl. 221—47.)



1. A hand oiler comprising a container, a piston therein, a tubular stem carried by said piston and adapted to communicate through the latter with the interior of the container, a check-valve for controlling the duct through said stem, and manually operable rack and pawl means carried by the container for depressing said piston step-by-step, said check valve being operable to cause the piston to be retained approximately in the position to which it may be depressed at each step.

1,379,472. FREIGHT-HANDLING TRUCK. JAMES C. MORGAN and CHARLES S. SCHROEDER, New Brighton, N. Y., assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed May 8, 1920. Serial No. 379,776. 16 Claims. (Cl. 214—77.)

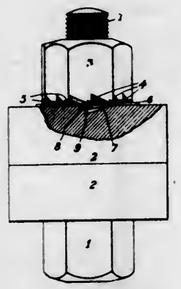


2. The combination of a supporting frame, a carrier pivoted on the frame, devices to secure to the carrier the article to be handled and means acting upon and through said devices to cause said devices to bind the article to the carrier and to tilt the carrier on the frame.

1,379,473. NUT-LOCK. ORRIN E. G. OLMSTED, Denver, Colo. Filed July 29, 1920. Serial No. 399,780. Renewed Apr. 12, 1921. Serial No. 460,659. 3 Claims. (Cl. 151—13.)

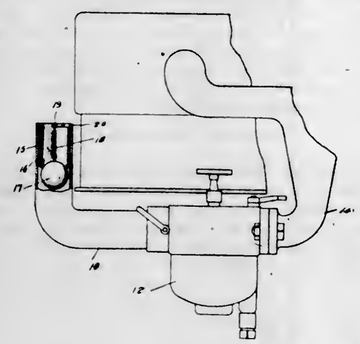
2. A nut lock comprising a plate having a bolt hole and a radial notch with an inclined bottom adjacent

thereto, a washer slotted and having a radial upturned locking tongue and a nut having a plurality of radial ratchet slots on its lower face, said slots being alternately and relatively deep and shallow, the washer being



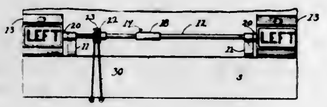
of a thickness equal to the depth of the shallow slots, the notch in the plate, and the deep slots being twice as deep as the shallow slots and the locking tongue three times as long as the depth of the shallow slots.

1,379,474. AUTOMATIC AIR-VALVE FOR CARBURETERS. CLARENCE E. OSBORNE, Portland, Oreg. Filed Apr. 13, 1920. Serial No. 373,511. 2 Claims. (Cl. 251—121.)



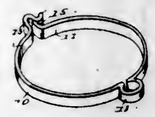
1. An attachment for carbureters comprising a tubular valve casing, cylindrical in configuration, a valve seat connected with the walls of the casing, a ball valve cooperating with the seat, a spring connected with the valve, one end of the casing being slit circumferentially and the strip formed thereby being deflected inwardly to form a transverse element extending across the valve casing, said spring being connected with the transverse element.

1,379,475. VEHICLE-SIGNAL. CHARLES H. OSMAN, San Francisco, Calif. Filed July 16, 1920. Serial No. 396,725. 1 Claim. (Cl. 116—48.)



A device of the character described including a shaft mounted on a vehicle, a sleeve member embracing and permitting various adjustments of said shaft, signal boxes provided with warning plates positioned on said shaft, a grooved element mounted on said shaft, mechanism mounted on the steering post of said vehicle and endless connecting means for conveying movement from said mechanism to said shaft to cause movement of said boxes into signaling position.

1,379,476. NIPPLE-CLASP. ALBERT PARR, Baltimore, Md., assignor of one-half to Frank H. Ahl, Baltimore, Md. Filed Jan. 29, 1920. Serial No. 354,892. 1 Claim. (Cl. 24—259.)



A nipple clasp consisting of a resilient band having its extremities provided with interlocking means comprising an outwardly directed loop on one extremity terminating in a cam-faced lip, and an outwardly directed ear on the other terminal for traversing the cam face of said lip and engaging the seat formed by said loop.

1,379,477. SAND-EXCLUDER. JOHN J. PERRY, Bosworth, Mo. Filed Jan. 11, 1919. Serial No. 270,653. 1 Claim. (Cl. 103—64.)

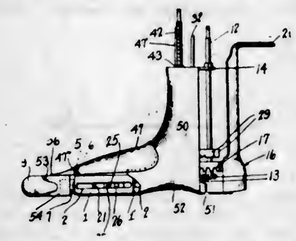


A sand excluder comprising a cylinder having its lower end closed and its upper end open and externally screw threaded, means for admitting fluid to the interior of the cylinder adjacent its upper end, a coupling cap threaded to the upper end of the cylinder, an internal shoulder formed in said cap and spaced from the upper end of said cylinder, a valve seat secured between said shoulder and the upper end of the cylinder by the attaching of the cap to the latter, said seat having a centrally arranged screw threaded bore, a check valve for said seat, and a tube threaded in said bore and extending downwardly in the cylinder to a point adjacent the closed end thereof and of a diameter considerably less than the diameter of the cylinder.

1,379,478. EXPANSIBLE SHOE-LAST. CARL SCHEVITZ, Jacksonville, Fla. Filed July 30, 1920. Serial No. 400,018. 5 Claims. (Cl. 12—130.)

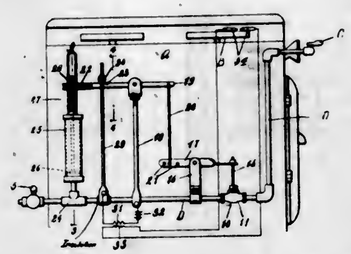
1. An expansible shoe last comprising a main frame having a contracted central portion, an upright member secured thereto at the rear thereof, slidable members in said frame, operating shafts for said members journaled

in the upright member, a casing secured to the upright member and surrounding the shafts and provided with



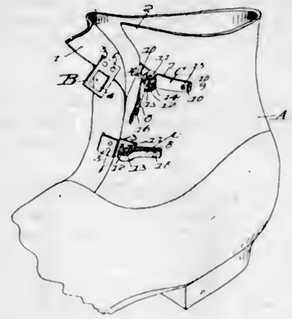
curved lower portions for conforming to the shape of the shoe and shoe expansion members connected with the slidable members.

1,379,479. AUTOMATIC LIGHTING DEVICE FOR GAS-STOVES. WALTER E. SCHNEIDER, Pryor, Okla. Filed July 6, 1920. Serial No. 394,155. 2 Claims. (Cl. 175—115.)



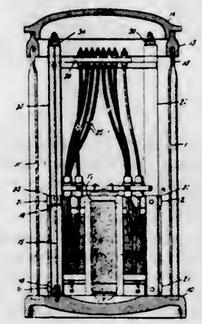
1. An igniting device comprising the combination with a gas conducting pipe, of a cutoff valve located within said pipe, a pivoted lever connected with said cutoff valve whereby to open and close the same, a support carried by the pipe, a lever pivoted upon said support and connected with said first named lever, a cylinder connected and having communicating with said pipe and having a piston movable therein, a rod connected with said piston, said rod being connected with said second named lever whereby upon movement of the piston said cutoff valve will be opened, and a contact disposed in the path of and engageable by said second named lever.

1,379,480. CLASP. PETER SCHNURR, Chicago, Ill. Filed Mar. 22, 1918. Serial No. 224,019. 1 Claim. (Cl. 24—69.)



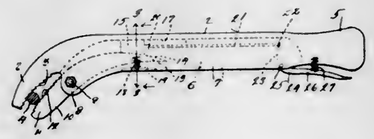
The combination with an eye, of a clasp member consisting of a plate having upturned ears on its opposite longitudinal edges, a pin fixed to and connecting said ears, and a second plate also provided with ears inturned from its opposite longitudinal edges, the said latter ears having pivotal engagement with the pin, the said second plate on one side of the ears being bent into substantially semi-circular shape to provide a toe which bears against the top face of the first said plate, the said second plate on the other side of the ears being formed to provide a bill which engages the first said plate and is held against the latter by the toe when the said toe bears against the first said plate on the opposite side of the pin from the bill, the bill being adapted for withdrawing from engagement with the first said plate against pressure exerted by the toe upon the first said plate.

1,379,481. INCASED ELECTRICAL APPARATUS. IVANHOE H. SCLATER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 25, 1920. Serial No. 391,769. 7 Claims. (Cl. 175—361.)



1. In incased electrical apparatus, the combination with a casing comprising a base, side wall and cover, of a plurality of rods disposed vertically in the base of said casing and spaced a predetermined distance apart, and an apparatus provided with a clamping structure having adjustable means for engaging said rods and adapted to accommodate themselves to the distance between said rods throughout a predetermined range in size and rating of said apparatus.

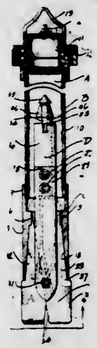
1,379,482. WRENCH. GEORGE H. SPONG, Portsmouth, Va. Filed Apr. 18, 1919. Serial No. 290,956. 1 Claim. (Cl. 81—116.)



A wrench comprising a handle of U-shaped formation in cross section, a fixed jaw projecting from one end of the handle, a movable jaw pivoted on the same end of the handle and having a curved surface projecting within the handle, a transverse plate extended across the open side of the handle, a spring bearing upon said plate and connected with the adjacent end of the movable jaw for holding the latter normally spaced from the fixed jaw, a wedge slidably mounted within the handle, a bell crank lever pivoted on the handle adjacent the opposite end thereof and having one branch projecting within the

handle, yieldable means for normally holding the other branch spaced from the handle, and a connecting rod joining the first mentioned branch with said wedge whereby the latter is operated to close the jaws when the bell crank lever is moved toward the handle.

1,379,483. DRILL AND UNDERREAMER. JOHN C. STOKES, Shreveport, La. Filed Apr. 6, 1920. Serial No. 371,608. 16 Claims. (Cl. 255—78.)



1. A drill comprising a tool holder having an inwardly extending annular rib formed on its inner surface adjacent to the upper end thereof and inwardly extending diametrically disposed longitudinally extending ribs, a bit carrier, a pair of blades pivotally carried by the carrier, having outwardly extending shoulders formed thereon arranged to engage the upper surface of the annular rib, the opposite outer edges of the blades being arranged to engage the longitudinally extending ribs when the shoulders on the blades engage the annular rib.
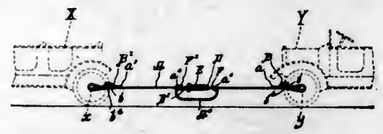
1,379,484. MAGAZINE ATTACHMENT FOR STOVES. HUGH A. STORER, Alton, Kans. Filed July 12, 1920. Serial No. 395,605. 1 Claim. (Cl. 126—73.)



A magazine attachment for stoves comprising a tubular body adapted to extend through an opening in a stove, a collar clamped on the body and engaging the stove top for limiting the distance the magazine extends within the stove, a double clamping ring for clamping the upper portion of the magazine to a stove pipe and a cover for the upper end of the magazine.

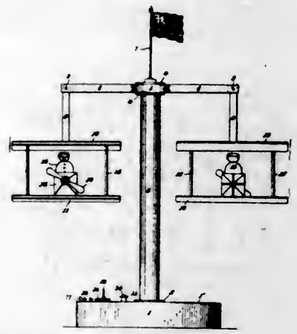
1,379,485. EMERGENCY DEVICE FOR USE WITH AUTOMOBILES. GEORGE S. STUART, Bradford, Pa. Filed Jan. 7, 1920. Serial No. 350,000. 1 Claim. (Cl. 213—67.)

A towing device comprising a single continuous flexible connector having free ends adapted to be folded over and to engage, respectively, a part of the framework of the towing and the towed vehicle, clasps carried by the said connector near the free ends thereof and adapted to engage the said free ends respectively, said clasp having side bars, transversely disposed end studs spanning said bars, and an intermediate lug having a laterally pro-



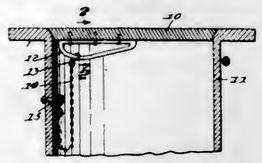
jecting tongue, a loop provided in said connector intermediate of said clasps, and a spring buffer arrangement spanning said loop and serving as a shock absorber to the device, substantially as described.

1,379,486. TOY ROUNDABOUT. ANDRO SVEC, Ashley, Pa. Filed Nov. 9, 1920. Serial No. 422,888. 1 Claim. (Cl. 46—27.)



A toy of the type described comprising a casing, a vertical shaft rotatably supported therein, motor mechanism within the casing for rotating the shaft, a cross arm supported on the upper end of the shaft and rotating therewith, a carriage swingingly mounted upon the outer ends of the cross arm, said motor mechanism including a train of gears communicating with the rotatable shaft, one of said gears carrying a shaft extending upwardly through the casing, a spring connected at one of its ends to said shaft and at the other end to the inner wall of the casing, means for placing the spring under tension, a toothed wheel carried by said shaft above said casing, a sliding dog adapted to engage said toothed wheel to control rotation of the shaft, said casing having an elongated slot in the upper wall thereof, a block carried by one of said gears and extending upwardly through said slot, and an adjusting screw associated with said block for shifting the block and gear carried thereby to disengage the same from the train of gearing whereby the rotatable shaft will remain stationary when the spring gear is being placed under tension.

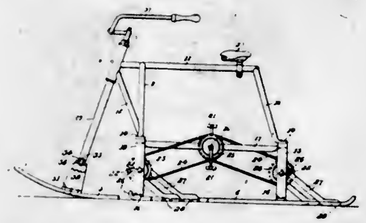
1,379,487. SAFETY DEVICE FOR MANHOLES. OLAF JOHAN SWANSON, Chappaqua, N. Y. Filed May 19, 1920. Serial No. 382,475. 2 Claims. (Cl. 94—34.)



1. A safety device for manhole covers having a looped guide or keeper arranged radially with respect to the cover,

and an anchoring chain adapted for terminal attachment to the manhole casing and provided with a traveler for traversing said guide or keeper.

1,379,488. ICE-VELOCIPEDE. JOHN SZYWKA, Albany, N. Y. Filed Sept. 7, 1920. Serial No. 408,569. 3 Claims. (Cl. 208—159.)



1. The combination with a frame including downwardly diverging front and rear pairs of uprights, transversely arranged inverted U-shaped frame members having the lower ends of said uprights rigidly fastened thereto, upper bars connecting said uprights, a lower bar connecting said frame members, a steering head arranged forwardly of the front upright and connected to the latter by means of said upper bar and a pair of downwardly diverging dingonal braces each connected to the lower ends of said front uprights, of a steering post extending through said steering head, a front runner connected to the lower ends of the steering post, spaced rear runners connected to the lower ends of said frame members, and pedal operated means supported by said lower bar and said frame members and including spur carrying propelling rods for propelling the device across ice, said front runner being of substantially V-shaped formation with its intermediate portion forward and upwardly curved and its ends arranged to bear upon the ice at spaced points.

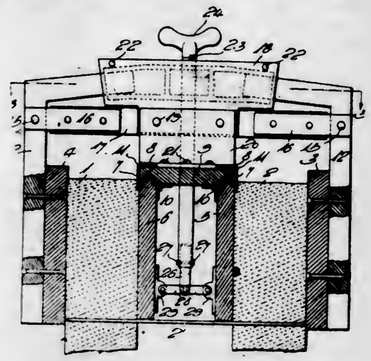
1,379,489. METHOD OF FILLING TEETH AND DENTAL MATRIX FOR USE THEREIN. DANIEL EVERETT TAYLOR, Willimantic, Conn., assignor to The L. D. Caulk Co., Milford, Del., a Corporation of Delaware. Filed Jan. 19, 1917. Serial No. 143,378. 6 Claims. (Cl. 32—17.)



1. A dental matrix of the character described comprising companion thin flexible strips of malleable metal and cement-protecting material, said strips being fitted against one another whereby the cement-protecting strip may be placed against the tooth to be filled to form a temporary wall of the cavity and the malleable strip may be burnished to cause the companion strip uniformly to contact the adjacent tooth surface.

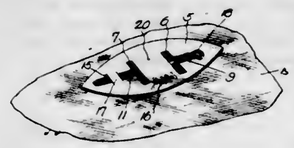
1,379,490. CONCRETE-MOLD. JACOB M. THOMPSON, Fond du Lac, Wis. Filed July 29, 1920. Serial No. 399,675. 4 Claims. (Cl. 25—131.)

1. A mold having side walls, a core having a head strip and walls hingedly connected with the head strip for swinging movement transversely in the mold, brackets carried by the head strip, cross bars carried by the brackets, side plates extending above the cross bars, a housing positioned above each cross bar, bearing strips carried by the cross bars, hanger arms for the side walls of the mold pivotally connected with the bearing strips and having their upper end portions extending inwardly and fitting



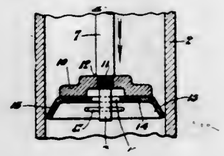
into pockets formed in the housing, bracket plates carried by the walls of the core, adjusting rods threaded through openings in the cross bars and extending through the head strip and housing, links connected with the bracket plates, stems connected with the inner ends of the links and rotatably connected with the adjusting rods, and abutments carried by the rods and engaging the housing.

1,379,491. IDENTIFICATION-TAG. JAMES J. TOY, Washington, D. C. Filed Apr. 2, 1920. Serial No. 370,677. 1 Claim. (Cl. 40—25.)



An identification tag for marking laundry comprising a substantially broad flat disk of flexible sheet material, said disk having spaced transverse slots therein, and longitudinally disposed grooves communicating with said slots and a headed pin adapted to be threaded through said slots and seated in said grooves, whereby said pin may be removed and the pin and disk again used.

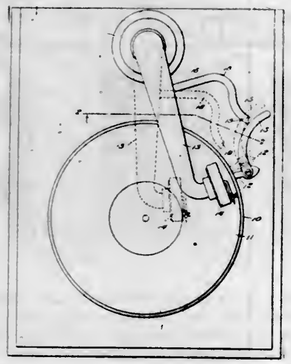
1,379,492. PUMP-VALVE. MICHAEL WAGNER, Pittsburgh, Pa., assignor of one-third to Louis Broida and one-third to Isidor Weinberg, Pittsburgh, Pa. Filed July 28, 1919. Serial No. 313,773. 1 Claim. (Cl. 230—27.)



In a pump, the combination with a pump barrel, of a plunger having a substantially central recess, and a sealing washer loosely mounted on the plunger and movable to and from a seating position thereagainst, the peripheral

portion of the washer coöperating with the barrel and said washer having a substantially central circulation opening of less diameter than the recess of the plunger, the inner margin of said sealing washer overlapping the said recess.

1,379,493. STARTING DEVICE FOR TALKING-MACHINES. FRANK A. WALKER, Niagara Falls, N. Y. Filed July 31, 1920. Serial No. 400,353. 1 Claim. (Cl. 192—116.)

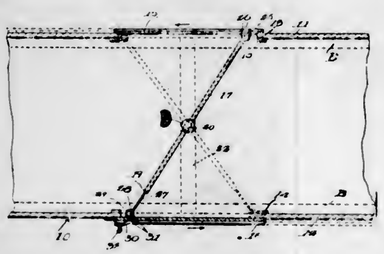


The combination with a phonograph having a tone arm and a brake, of a curved arm secured to the brake and an arm secured to the tone arm and engageable with the brake arm for automatically releasing the same when the tone arm is moved in a direction toward the starting point of a record, the last mentioned arm including a downwardly extending vertically arranged portion having one end secured to the tone arm, a laterally extending substantially right angular extension located at the opposite end and a lip carried at the free end of the lateral extension for engagement with the brake arm.

1,379,494. PROCESS FOR TREATING BRAN. THERESIA J. WALTERSKIRCHEN, Missoula, Mont. Filed May 11, 1920. Serial No. 380,476. 1 Claim. (Cl. 99—10.)

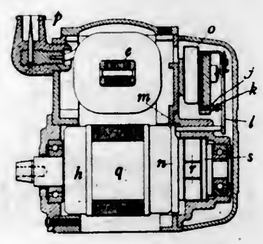
A cereal composed of untreated toasted bran.

1,379,495. COMBINATION LOCK AND CONTROLLER FOR SIDE DOORS OF BOX-CARS. FRED HELL WARD, Washington, D. C. Filed June 29, 1920. Serial No. 392,767. 7 Claims. (Cl. 20—22.)



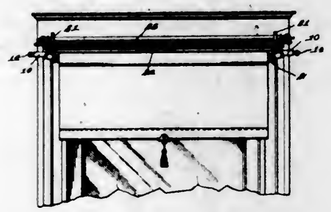
6. In a device of the character described including oppositely sliding doors, controlling means for said doors including telescopic rods, and means for connecting the free end of each of said telescopic rods to its respective door.

1,379,496. MAGNETO-ELECTRIC MACHINE. ERNEST ANSLEY WATSON, Coventry, England, assignor to The C. L. I. Manufacturing Company Limited, Birmingham, England. Filed Mar. 23, 1921. Serial No. 454,839. 2 Claims. (Cl. 171—209.)



1. In magneto electric machines, the combination of a pair of straight bar magnets forming a pair of parallel sides of the machine, a single pole piece connecting one pair of ends of the magnets, a pair of pole pieces connected to the opposite ends of the magnets, a cross piece joining the said pair of pole pieces, a rotary armature, a laterally projecting cam on the rotary armature, an interrupter on a stationary part of the machine including a contact supporting spring lever, and a slidable rod maintained in engagement with the cam by the spring lever and operated by the cam to actuate the interrupter, substantially as described.

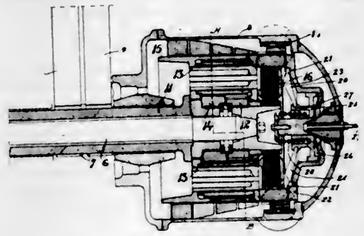
1,379,497. WINDOW-FIXTURE. MICHAEL WENZOWITZ, Chicago, Ill. Filed Feb. 28, 1920. Serial No. 362,022. 1 Claim. (Cl. 156—24.)



In combination, an elongated member, a bracket slidably mounted upon said member and including an attaching portion terminating to provide a flange overlying one of the longitudinal edges of the member, said attaching portion being arranged at right angles to the body of the bracket, a lug projecting from one edge of the attaching portion, an element pivoted between the lug and the body portion of the bracket, and adjustable elements threadedly associated with the pivoted member and bearing against the attaching portion of the bracket as and for the purpose specified.

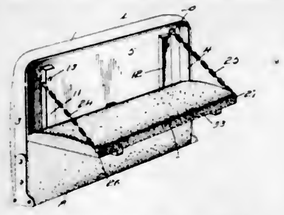
1,379,498. POWER-TRANSMISSION DEVICE. OSCAR ANTON WIBERG, Finspong, Sweden. Filed Apr. 8, 1920. Serial No. 372,312. 2 Claims. (Cl. 74—34.)

1. In a device of the kind described, the combination with a rotary shaft, of another rotary shaft, tubular in shape and surrounding the said first mentioned shaft, a system of sun and planet wheels between said shafts, a rotary drum surrounding said sun and planet wheels and carrying the planet wheels, a stationary drum, surrounding said rotary drum, means for locking the rotary



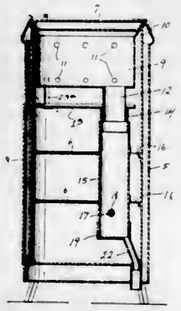
drum to the stationary drum, and means for locking the rotary drum to one of said shafts, substantially as described.

1,379,499. ATTACHMENT FOR THE BACKS OF SEATS. ELLA WILLIFORD, Detroit, Mich. Filed Oct. 7, 1920. Serial No. 415,364. 1 Claim. (Cl. 155—188.)



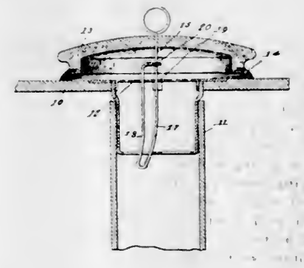
The combination with the back element of a railway seat, or chair, a sectional back, a central partition, attaching members secured within recesses in said partition, abutments on the ends of said attaching members, a vertically movable section supported by said abutments, slotted attaching members also secured to the movable section, links pivoted to said attaching members, studs carried by said links and slidable within the slotted attaching members whereby the movable section may be moved at right angles to the partition, auxiliary supporting chains connecting said movable section with said partition, and locking means for said movable section.

1,379,500. REFRIGERATOR. FRED JOSEPH WILLIAMSON, Dover, Ohio. Filed Aug. 27, 1919. Serial No. 320,219. 1 Claim. (Cl. 62—46.)



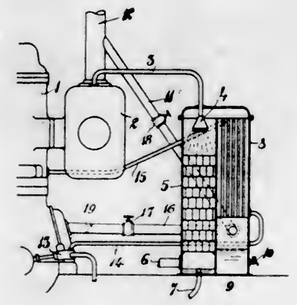
A refrigerator of the character described comprising a refrigerating chamber, an ice receiving receptacle having its upper marginal edge engaged with the upper edge of the refrigerating chamber and its body portion disposed in spaced relation to the walls of said chamber, an ice receiving outlet casing projecting from the bottom of said receptacle, a supporting member depending from said receptacle, a pan disposed in spaced relation to the bottom of the receptacle and having one portion thereof supported by said supporting member, an outlet casing projecting from said pan remote from the supporting member and adapted to receive the end of the first mentioned outlet casing, said first mentioned outlet casing being disposed in spaced relation to the inner surface of the second mentioned casing, and an ice receiving outlet casing extending to the lower portion of the refrigerating chamber, and being detachably connected to the wall of the chamber in spaced relation to the bottom thereof, the upper portion of the last mentioned casing being adapted to frictionally engage and support the end portion of the second mentioned casing whereby said pan is held in the proper position.

1,379,501. SINK-SEAL. WILLIAM G. WILSON, West New Brighton, N. Y. Filed Sept. 29, 1919, Serial No. 327,036. Renewed Mar. 23, 1921. Serial No. 454,903. 7 Claims. (Cl. 4—35.)



1. A seal or cover for the outlet of a sink, comprising a buoyant body normally covering said outlet, means carried by said cover and designed to engage the sink for holding the cover immovably positioned above the outlet opening, and said means being adjustable relative to the cover for permitting free movement of the cover to float upon the water admitted to the sink as described.

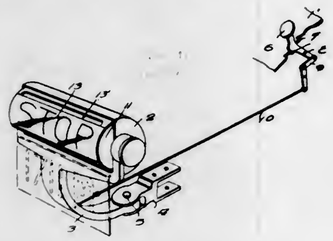
1,379,502. METHOD OF AND MEANS FOR DISTILLING WATER. BROR ALGOR DE WOERN, Lysekil, Sweden. Filed June 10, 1920. Serial No. 388,030. 3 Claims. (Cl. 203—5.)



1. In a method of distilling water, passing the heated water discharged from the cooling jackets of an internal combustion engine, the crank case of which is used as a pump chamber, through a scrubber in one direction, forcing air through said scrubber in the opposite direction,

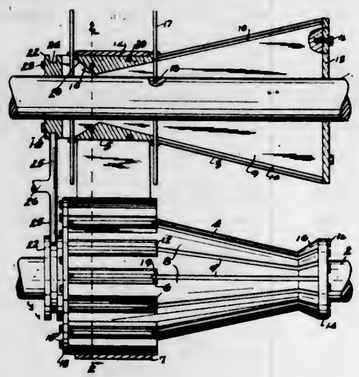
then cooling the air and condensing the vapor mingled therewith, and introducing the cooled air into the said crank case, substantially as and for the purpose set forth.

1,379,503. AUTO SIGNALING DEVICE. HERBERT A. WRIGHT, Clarence, Mo., and CHARLES W. KENNEDY, Benton, Mont. Filed Sept. 18, 1919. Serial No. 324,305. 1 Claim. (Cl. 116—48.)



In a direction indicator a substantially T-shaped member, the head of which includes a semi-cylindrical hood with its flat portion open and facing rearwardly, the shank of said member being hollow and curved forwardly with its free end adapted for connection to an attaching bracket, an indicia carrying drum mounted to rotate in said hood, a spring winding drum connected with the indicia carrying drum to rotate it, a cable attached at one end to said spring drum to be wound thereon, pulleys mounted in said head and shank over which said cable passes, and actuating mechanism connected to unwind said cable to rotate said drum.

1,379,504. VARIABLE-SPEED TRANSMISSION. JOHN YOUNG, Mount Vernon, N. Y. Filed May 20, 1920. Serial No. 382,734. 4 Claims. (Cl. 64—8.)



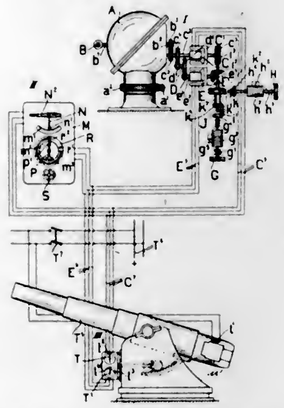
1. A variable speed transmission comprising conical members arranged side by side with their apexes extending in opposite directions; arcuate members mounted upon and projecting beyond said conical members to form expansible rings; resilient members extending circumferentially of said rings and through said arcuate sections so as to permit of circumferential expansion and contraction of said rings; a driving connection between said expansible rings; and means for jointly moving said conical members lengthwise of said expansible rings for proportionately expanding and contracting the respective rings.

1,379,505. LUBRICATING-RING. HENRY L. ZABRISKIE, Westfield, and FREDERICK DIEHL, Elizabeth, N. J., assignors to Diehl Manufacturing Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 10, 1919. Serial No. 276,019. 7 Claims. (Cl. 64—31.)



3. A lubricating ring comprising a continuous circular substantially U-shaped metal channel open at one side to facilitate the flow of oil to the shaft, the U-shaped channel extending parallel with the axis of the ring and being formed from a continuous ring of stamped sheet metal.

1,379,506. FIRE-CONTROL APPARATUS FOR NAVAL GUNS. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,074. 7 Claims. (Cl. 49—41.)



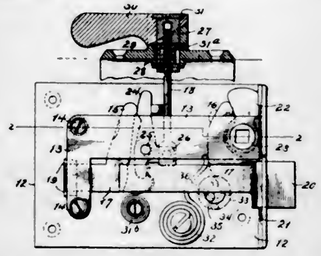
1. An apparatus of the class described which comprises a sighting device, a gyroscopic apparatus for stabilizing said device, an electrical long distance controlling apparatus embodying transmitters and a range device, two sets of receivers in circuit with said electrical controlling apparatus, two sets of pointers operatable by said receivers, marks coöperating with one set of pointers arranged at the gun and operatively connected to the gun, and indicating its position of elevation, a mark coöperating with a pointer of the other set of pointers, and marks adjustable to correspond to the angle of roll of the ship.

1,379,507. WHEEL. GEORGE E. ALEXANDER, New York, N. Y. Filed Apr. 10, 1920. Serial No. 372,879. 4 Claims. (Cl. 64—17.)



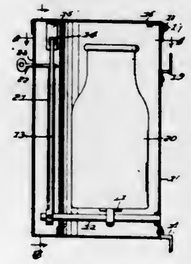
1. A wheel comprising a pair of side elements each having a flat disk portion, a raised central hub and an offset rim, one of said sides having a plurality of circular openings in the disk portion thereof, a corresponding number of integral tubular rivets formed with the other of said sides engaged in the mentioned openings whereby said sides are held in engagement, a sleeve passing through axial openings in said wheel sides, and means extending oppositely outward between said sides for securing said sleeve therein.

1,379,508. LOCK FOR AUTOMOBILE-DOORS. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Oct. 1, 1920. Serial No. 414,105. 7 Claims. (Cl. 292—164.)



1. In a lock for automobile doors, the combination of a latch bolt normally projected by a spring and having a projecting lug, a bell crank lever one arm of which is adapted to engage said lug, a spring for normally holding the arm of the bell crank away from the lug, a lifting rod connected with the other arm of said lever, and a cam handle mechanism connected with said rod for lifting the same.

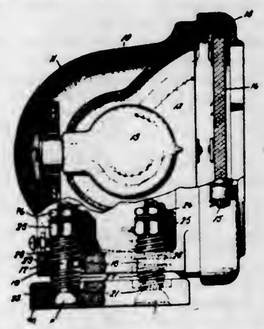
1,379,509. MILK-BOTTLE RECEPTACLE. ELMER E. BAIL, Pittsburgh, Pa. Filed Sept. 2, 1920. Serial No. 407,710. 2 Claims. (Cl. 232—41.)



1. A milk bottle receptacle having a casing provided with a movable lid or cover, a pivotal latch arm for engaging said lid or cover and yieldingly held in its inoperative position, and a pivotal platform or trap arranged in the casing and connected with the latch arm for supporting a milk bottle, and movable by a filled bottle in opposition to the tension of said latch actuating spring for disposing the latch in engaging relation with the lid or cover.

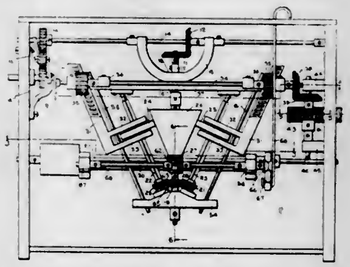
1,379,510. UNIVERSAL JOINT AND SHOCK-ABSORBING SPRINGS FOR HEADLIGHTS. PERCY S. BAILEY, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,163. 3 Claims. (Cl. 240—90.)

3. The combination with a headlight having a supporting platform, of a shock absorbing support comprising a base, spherically headed bolts connecting said base and supporting wall arranged to permit relative lateral movement between these parts, springs on said bolts located on both sides of the supporting platform arranged to



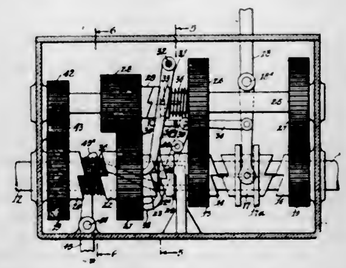
cushion said platform therebetween, and sockets in said base arranged to receive said spherically headed bolts and thereby permit said bolts to move universally.

1,379,511. SLUBBING-MACHINE. MARVIN K. BALLARD, Belmont, N. C. Filed Oct. 1, 1920. Serial No. 414,029. 8 Claims. (Cl. 74—26.)



5. In a machine of the class described, a shaft, a cone loosely mounted thereon, a gear wheel rigid with the cone, a shaft and a gear wheel thereon meshing with the gear wheel first named, a gear wheel rigid with the shaft first named, a shaft inclined at an angle with reference to the shaft first named, means for gearing the inclined shaft with the shaft first named, a friction wheel on the inclined shaft, rotatable therewith, and coöperating with the cone, and means for shifting the friction wheels longitudinally of the cone, for contacting with the latter at points of various diameters, and a rack bar and frame for shifting the friction wheel longitudinally of the inclined shaft.

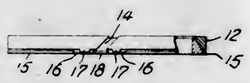
1,379,512. TRANSMISSION-GEAR. CLAUDE BEARENS, New York, N. Y. Filed May 8, 1920. Serial No. 379,848. 12 Claims. (Cl. 74—59.)



12. A drive gear comprising a drive shaft and a driven shaft, a shift gear element on the driven shaft to slide

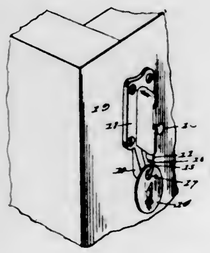
thereon and to turn therewith, said driven shaft having a spirally disposed key with which the shift gear element is engaged, spring means tending to engage said shift gear with the drive shaft for direct drive, a counter-shaft, a gear element on the drive shaft, a gear element on the counter-shaft meshing with the element on the drive shaft, and a gear element on the counter-shaft and in constant mesh with the shift gear element.

1,379,513. PACKING-RING FOR PISTONS AND THE LIKE. THEODORE BEAUDOIN, St. Johns, Quebec, Canada. Filed Mar. 27, 1919. Serial No. 285,666. 1 Claim. (Cl. 74—109.)



A piston ring comprising inner and outer split rings arranged with the split ends of one ring diametrically opposite the corresponding ends of the other ring, an annular flange projecting outwardly from the lower edge of the inner ring and provided with spaced recesses located diametrically opposite the split in said ring, and a depending projection carried by each split end of the outer ring adapted to be received into one of said recesses, said recesses being located close together with the part of the flange dividing the recesses alined with the split of the outer ring.

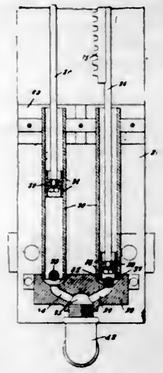
1,379,514. MINE-CAR TAG-HOLDER. KENNUS F. BEGLEY, White Star, Ky. Filed Sept. 23, 1920. Serial No. 412,178. 3 Claims. (Cl. 40—15.)



1. A tag holder for mine cars having a hook provided with a yielding closure pin or bolt provided at its inner side with a shoulder for engagement by a tag and disposed in the path of disengaging movement of the latter.

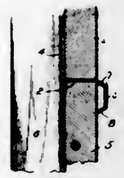
1,379,515. DOUBLE-ACTION PUMP. WILLIAM F. BELL, Canton, N. C. Filed Dec. 14, 1917. Serial No. 207,148. 1 Claim. (Cl. 103—69.)

In a device of the class described, a support; a block carried by the support and provided in its upper face with countersinks and having a countersink in its lower face, there being first ducts in the block connecting the upper countersinks with the lower countersinks, the block being supplied with a bore in its forward face, and with second ducts connecting the upper countersinks with the bore, the block having openings communicating with the second ducts; ball valves in the openings and coöperating with the second ducts; closures in the openings and adjustable to vary the travel of the valves; ball valves in the upper countersinks and coöperating with the upper ends of the first ducts; cylinders communcating with the upper countersinks; a discharge pipe communicating with



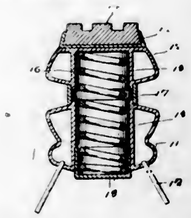
the lower countersinks; pistons mounted to reciprocate in the cylinders; and means on the support for operating the pistons.

1,379,516. WEATHERPROOF CONSTRUCTION FOR BUILDINGS. WALTER R. BENJAMIN, Chinook, Mont., assignor of one-half to Thomas O'Hanlon Co., Inc., Chinook, Mont., a Corporation of Montana. Filed Feb. 26, 1920. Serial No. 361,548. 1 Claim. (Cl. 20—4.)



The combination with two adjacent boards placed edge to edge, of a metallic strip having a flat intermediate portion extending longitudinally throughout its length and adapted to fit between the opposed edges of said boards, a perpendicularly disposed flange extending from the inner edge of said portion and fitting against the rear face of one of the boards, and another flange extending from the outer edge of the intermediate portion in a direction opposite to the first-named flange, said last-named flange being bowed outwardly and having its lower edge bearing against the other board at a point remote from the meeting edges of said boards.

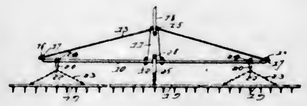
1,379,517. SPRING-WHEEL. FRED BENTLEY, Detroit, Mich. Filed June 20, 1919. Serial No. 305,475. 1 Claim. (Cl. 152—32.)



A resilient wheel comprising a hub, a felly having openings therein, a tire carrying rim, tubular members radiating from the felly from the walls of said openings,

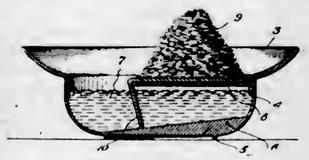
said tubular members being open at both ends, tubular members projecting inwardly from the tire carrying rim in alinement with the first mentioned tubular members, coiled springs fitted within the tubular members carried by the felly through the openings therein, the tubular members forming integral parts of the felly and rim, cup-shaped members threaded into the said openings of the felly and also into the tubular members formed therein, and constituting bottoms for said tubular members, said springs being received by the tubular members formed on the tire carrying rim and spacing the latter from the felly, and a flexible band interposed between each pair of alined tubular members inclosing the space between the latter for the purpose specified.

1,379,518. DRAFT APPLIANCE FOR HARROWS. JOSEPH BERGER, Spalding, Nebr. Filed May 1, 1920. Serial No. 378,161. 3 Claims. (Cl. 55—84.)



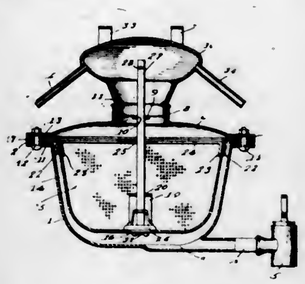
1. A draft appliance having a transverse draft bar and an intermediate forwardly extending draft block connected at its forward end to the extremities of the draft bar by tension rods, a draft link being connected with the said block.

1,379,519. CEREAL-DISH. JOHN BJORNSEN, Philadelphia, Pa. Filed Nov. 1, 1920. Serial No. 421,072. 4 Claims. (Cl. 65—15.)



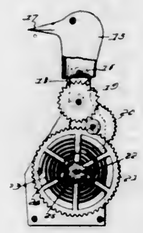
1. A cereal dish comprising a body having the upper side of its bottom inclined and also having at the inner side of its side wall a ledge, and a cereal support, of less area than the interior of the body, superimposed on the said ledge and having on one edge a skirt that is inclined at an acute angle to the major portion of the support and has its lower edge spaced from the body bottom.

1,379,520. STILL. NEKIFOR BOLOGA, Cleveland, Ohio. Filed Jan. 16, 1920. Serial No. 351,807. 1 Claim. (Cl. 195—12.)



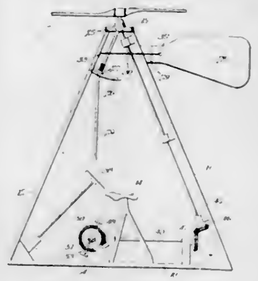
A still comprising a casing body having a drainage channel in its bottom, a valved drainage pipe carried by the body and communicating with said channel, a foraminous receptacle supported in the casing body in spaced relation thereto and having a discharge opening in its bottom, an apertured bridge loop and an apertured cross-bar detachably secured in the foraminous receptacle, a gravitational valve complementary to the discharge aperture in the foraminous receptacle and having a stem guided in the apertures of the bridge loop and cross-bar, loops or eyes secured to the foraminous receptacle and arranged within the same, and means closing the casing body and inclosing the receptacle therein and having vent means.

1,379,521. TOY WOODPECKER. LESLIE E. BOWSER, Hobart, Okla. Filed Apr. 1, 1920. Serial No. 370,500. 1 Claim. (Cl. 46—40.)



A toy having a resonant supporting member and an object in representation of a woodpecker attached thereto and consisting of a hollow body member and a pivotal head member having a beak in contacting relation with the supporting member and means housed in and concealed by the body member and consisting of an escapement lever connected with said head member, an escapement wheel in operative relation with the escapement lever, a driving gear connected with the escapement wheel, and an actuating spring connected with the driving gear, for imparting oscillatory movement to the head member.

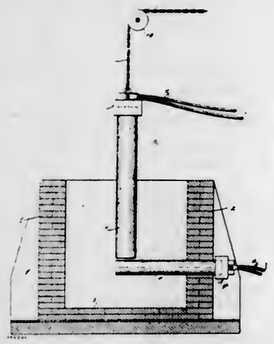
1,379,522. AIRCRAFT. GARLAND DEAN BRUNER, Urbana, Mo. Filed Dec. 6, 1920. Serial No. 428,803. 3 Claims. (Cl. 244—19.)



1. A device of the class described, comprising a framework including lower approximately horizontal elements and upwardly inclined elements extending toward each other, a propeller, a shaft therefor, and means for mounting the latter in the upper portion of the frame, permitting rotation of the propeller, means for driving the propeller, said means including a universal joint, said means for mounting the propeller shaft comprising an annular horizontal element supported by the framework, a tiltable element including trunnions supported by the annular

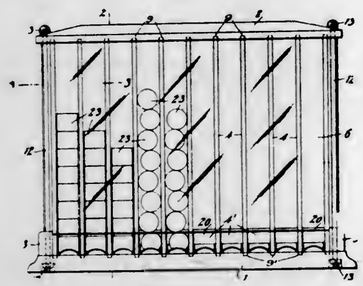
element, means coöperating with the tiltable element providing a bearing for the propeller shaft, and a lever for rocking the tiltable element.

1,379,523. PROCESS OF REDUCING ALUMINUM OXID. LOUIS BURGESS, New York, N. Y., assignor to Standard Oil Company, a Corporation of New Jersey. Filed Aug. 15, 1919. Serial No. 317,687. 14 Claims. (Cl. 204—63.)



3. The process of reducing aluminum oxid which consists in mixing aluminum oxid bearing material in a divided condition with coke-producing material coking the mass, and then subjecting the mass to an electric arc inclosed by said mass.

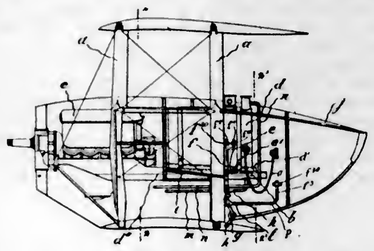
1,379,524. DISPENSING-CABINET. WILLIAM E. CASSEL, Fort Scott, Kans. Filed Aug. 27, 1920. Serial No. 406,286. 3 Claims. (Cl. 211—8.)



1. A dispensing cabinet of the character described, comprising a base, a top, said base and top having registering transverse grooves, vertical partitions having their ends in said grooves, front and rear plates between the top and the bottom, said front plate having its lower edge spaced from the upper face of the bottom, slides in the lower portion of each compartment formed by the partitions, vertical rods projected through the ends of the top and bottom, and devices adjustable on the rods for clamping the partitions between the top and the bottom.

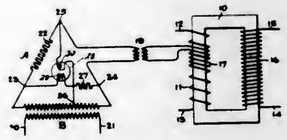
1,379,525. DETACHABLE FUEL-TANK. RENÉ CAUDRON, Issy les Moulineaux, France. Filed Aug. 9, 1918. Serial No. 249,216. 5 Claims. (Cl. 244—1.)

1. In an airplane the combination of a tank supporting frame, a number of fuel tanks mounted in said frame, rearwardly slanting slide-ways for said frame, and releaseable means for normally holding the fuel tanks in



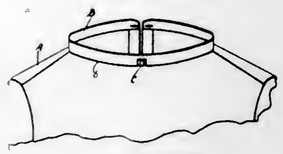
position and capable of permitting the fuel tanks to escape rearwardly down the slide-ways during the flight of the airplane.

1,379,526. TEMPERATURE-INDICATOR FOR TRANSFORMERS AND THE LIKE. ALBERT T. CHILDS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 25, 1918. Serial No. 236,661. 4 Claims. (Cl. 73—32.)



1. A temperature indicator for transformers comprising a bridge having an arm composed of a single non-inductive resistance member which has a substantial temperature coefficient of resistance and is adapted to be arranged in close thermal relation with a winding of the transformer, and means associated with said bridge responsive to the E. M. F. consumed by the resistance of said member for indicating the temperature variations in said member.

1,379,527. NECKBAND-FASTENING MEANS FOR COLLARS. ARTHUR J. CHOQUET, New York, N. Y., assignor, by mesne assignments, to Adolph M. Deutsch, county of Queens, N. Y. Filed Jan. 10, 1920. Serial No. 350,518. 2 Claims. (Cl. 2—69.)

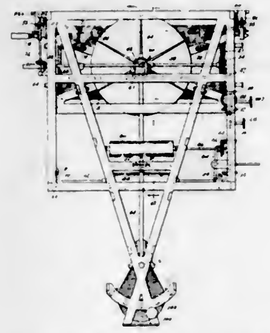


1. A device of the class described, comprising, in combination with a shirt band, of a metal plate secured in said band at the back thereof, said plate being bent to conform to the curvature of the band, and a raised, downturned hook-like element formed with said plate extending outwardly at the center of said band, adapted to engage in the rear buttonhole of a collar.

1,379,528. PROFILE-MAP MACHINE. EDWIN S. CLARK, Walla Walla, Wash. Filed Feb. 15, 1919. Serial No. 277,149. 15 Claims. (Cl. 234—8.)

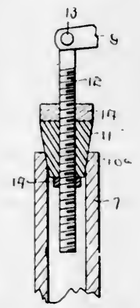
1. In a profile delineating device for use on a traveling vehicle, a drive shaft; means for driving said drive shaft at a speed corresponding to the horizontal traverse of the vehicle; record-strip supporting means; selective-speed

gearing driven by the drive shaft and coöperating with the record-strip supporting means for feeding a record strip at any one of a plurality of speeds to vary the scale of the profile; a profile tracer mounted to engage and



traverse the record strip; and driving means driven by the drive shaft to move said tracer transversely of the record strip at a speed corresponding to the grade over which the vehicle is traveling.

1,379,529. FLOAT-VALVE. WILLIAM COMBELLICK, Gettysburg, S. D. Filed June 21, 1919. Serial No. 305,820. 1 Claim. (Cl. 137—104.)

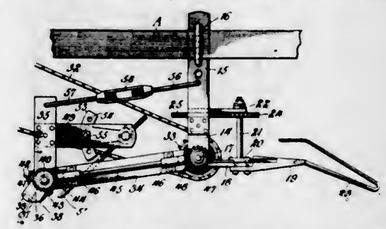


The combination with a fluid containing tank inlet pipe having a valve seat on its inner end; of a frusto-conical valve having a threaded bore extending longitudinally therethrough, a threaded stem extended through and adjustably mounted in said bore and projecting beyond the valve at one end a sufficient distance so as to be guided by the wall of the pipe and at its other end to form a connection, an arm pivoted at one end to said projecting stem and carrying a float at its other end and a bracket carried by said pipe with one end extended above said pipe in a plane spaced laterally from that occupied by the pipe and on which said arm is fulcrumed intermediate its ends.

1,379,530. BEET-TOPPING ATTACHMENT FOR BEET-HARVESTING MACHINES. OLIVER P. COMBEST, Pomona, Calif. Filed Jan. 4, 1918. Serial No. 210,297. 17 Claims. (Cl. 55—107.)

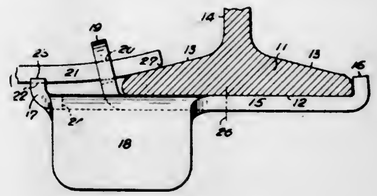
1. The combination with a supporting frame, of an auxiliary frame pivotally connected with said supporting frame and having parallel motion, and beet topping mechanism carried by the rear end of said auxiliary frame, said mechanism consisting of a ground knife and a rotary cutter coöperating therewith, the ground knife having a front cutting edge with its lower face in rear thereof shaped so as to ride along the ground.

9. The combination with vertically movable beet topping mechanism, a gage operated to automatically adjust said mechanism relatve to the beet so as to regulate the height of the cut of said mechanism, said gage comprising a



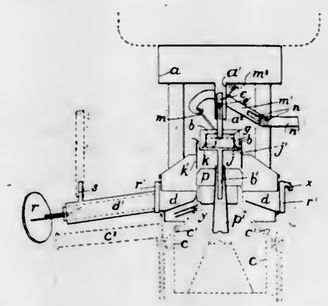
plurality of spaced fingers arranged in advance of said beet topping mechanism, and means for adjusting said fingers in the arc of a circle toward and away from said beet topping mechanism.

1,379,531. RAIL-ANCHOR. FRANCIS W. COOPER and HENRY STEADWORTHY, Montreal, Quebec, Canada. Filed Dec. 19, 1919. Serial No. 346,100. 10 Claims. (Cl. 238—304.)



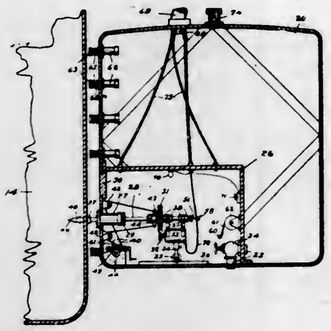
1. A device of the class described comprising a body adapted to engage the under surface of a rail base, a fulcrum member carried by the body adjacent the rail edge, a key seat carried by the body above the plane thereof, and a key passing through said fulcrum and adapted to be supported at one end on the upper surface of the rail base and at the opposite end on the key seat.

1,379,532. CREAM-SEPARATOR. WILLIAM GORDON COOTE, East Katanning, Western Australia, Australia. Filed Jan. 7, 1920. Serial No. 350,053. 1 Claim. (Cl. 233—11.)



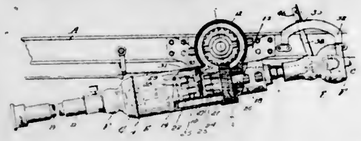
In cream separators, the combination with the cream chamber and an outlet spout connected thereto, of means for cooling said chamber and spout consisting of an outer jacketed wall surrounding said chamber and spout, an inlet pipe for connecting a high level water source to said jacket, and an outlet pipe connected to the jacket, whereby a constant flow of cooling water about the cream chamber and spout is maintained.

1,379,533. APPARATUS FOR SALVAGING SUNKEN SHIPS. EARL W. COX, Seattle, Wash. Filed May 15, 1920. Serial No. 381,769. 2 Claims. (Cl. 114—53.)



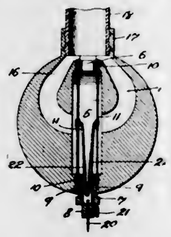
1. In a ship salvaging device, buoyant tanks, means for securing said buoyant tanks to the side of the sunken ship and resilient devices on the side of each of said buoyant tanks for engaging with the sides of said ship at a plurality of points.

1,379,534. POWER-TRANSMISSION DEVICE. RALPH F. CRAWFORD, Salina, Kans. Filed June 9, 1920. Serial No. 387,576. 6 Claims. (Cl. 74—7.)



1. A power take-off attachment for motor vehicles comprising a shaft interposed in the drive shaft of the vehicle and constantly driven by the motor, a shaft journaled transversely of the vehicle frame and carrying a power transmitting device, a gear on said last named shaft, a gear rotatably mounted on said first named shaft, a clutch mechanism splined upon said first named shaft and operable whereby to lock said second named shaft for rotation with said first named shaft or to connect said first named shaft direct with the portion of the drive shaft leading to the propelling mechanism, and means for simultaneously shifting said clutch mechanism to cause rotation of said second named gear and to set the brakes of the vehicle.

1,379,535. PHONOGRAPH-REPRODUCER. CHARLEY M. CROSSNO, Sallisaw, Okla. Filed June 24, 1919. Serial No. 306,378. 1 Claim. (Cl. 274—35.)



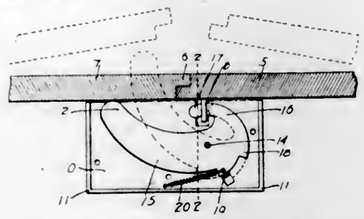
A reproducer including a body, opposed diaphragms engaged therewith, a stylus, means connecting the stylus with the diaphragms, said body having a sound outlet communicating with the chamber between the diaphragms, and hollow extensions carried by the body having communication with the space lying exteriorly of the diaphragms and communicating with the sound outlet of the body.

1,379,536. WRENCH. JOHN WM. DAVIES, Barnesboro, Pa. Filed May 25, 1920. Serial No. 384,088. 2 Claims. (Cl. 81—157.)



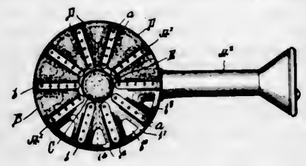
1. In a wrench of the class described, the combination with a shank, of a head provided with an integral jaw and with a central opening carried by said shank, a movable jaw provided with an integral neck carried by said head, said neck provided with teeth on one edge and extending across the central opening of the head, a casing provided with bifurcated ends straddling the neck, said casing provided with depending flanges contiguous to the sides of the head, a spring on the head and pressing against the casing, and an adjusting screw journaled upon the casing and normally meshing with the teeth of the neck.

1,379,537. LATCH. FRANK E. DAVIS, Bremerton, Wash. Filed Oct. 11, 1919. Serial No. 329,916. 1 Claim. (Cl. 292—129.)



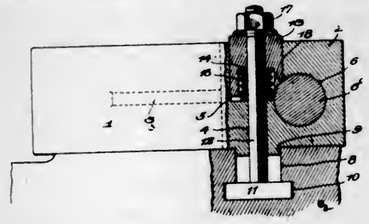
In combination with two swinging doors of a cupboard or the like which are latched closed in the ordinary manner, and one of said doors having an inwardly projecting staple, of a lock for said doors, comprising a pivotally supported member having one of its ends formed with a finger to be received in the staple, its other end extended to provide a tail designed to be contacted by the second door, a shoulder on the lock, a stop in the path of contact with the shoulder for limiting the swinging of the lock in one direction, and a spring influencing the lock whereby to cause the swinging thereof to normally project the tail beyond the door casing to bring the finger of the lock out of staple engaging position, and said lock when the tail thereof is contacted by one of the doors and is swung to bring its finger into the staple of the other door being influenced by its spring to cause the tail portion thereof to exert a constant pressure against the door with which it engages and to impel the door to open position when the latching means for the doors is released.

1,379,538. BURNER FOR GASEOUS FUEL. DWIGHT MORRIS DE SILVA, Washington, D. C. Filed Nov. 24, 1920. Serial No. 426,238. 12 Claims. (Cl. 158—99.)



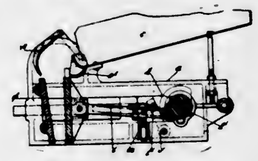
1. Apparatus of the character described, comprising in combination a gas burner provided with a series of radial perforated arms, and means for supplying a mixture of air and gas to said burner, and a spider mounted above said burner and provided with an annular socket in its center, and a series of radial slots registering with the perforated arms of the burner, said slots separating the said spider into a series of sector-shaped segments, with blocks of porous, heat resistant material mounted above said annular socket and above said sector-shaped segments, with air passages between said blocks, substantially as described.

1,379,539. TOOL-HOLDER. JOHN J. DOLAN, Sr., Duquesne, Pa. Filed Sept. 15, 1919. Serial No. 323,819. 1 Claim. (Cl. 82—36.)



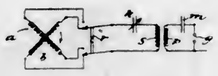
In a device of the kind described, a lathe rest having a recess and a groove communicating with the recess, the groove being of greater width than the recess, a tool holder having a longitudinal rib adapted to enter the recess of the lathe rest, said holder having a tool receiving bore and having communicating bores at right angles thereto, a plate slidably fitting in the groove of the rest, studs carried by said plate and entering the last mentionel bores, respectively, bushings fitting on said studs and having their inner ends recessed, nuts working on the outer ends of the studs, and coiled springs encircling the studs and resting in the recessed ends of the bushings, the bushings being cut away on one side on an arc equal to that of the tool receiving bore.

1,379,540. NUT-CRACKING MACHINE. JULIUS OSCAR DREWS, London, England. Filed July 7, 1919. Serial No. 309,044. 2 Claims. (Cl. 146—3.)



1. A nut cracking machine, comprising a frame, an inclined feed chute, a fixed jaw, a sliding jaw, a plurality of pivoted deflectors mounted between the chute and the jaws for receiving nuts from the chute and delivering them between the jaws, and means carried by said sliding jaw for operating said deflectors.

1,379,541. ELECTROMAGNETIC-WAVE NAVIGATIONAL ARRANGEMENT. JAMES ERSKINE-MURRAY and JAMES ROBINSON, Biggin Hill, England. Filed Oct. 29, 1919. Serial No. 334,136. 5 Claims. (Cl. 250—11.)

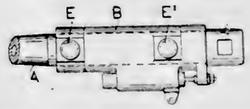


1. The method of determining the bearing of a wireless transmitting station which consists in determining the interval between the reception of a distinctive signal periodically propagated from the transmitting station in a definite direction and the reception of a pair of successive signals of equal intensity in a series of signals propagated from the transmitting station in pairs of quickly succeeding individual signals at small equal time intervals, the individual signals of each pair varying in relative intensity in a given direction with the position of a movable element which controls the emission of signals at the transmitting station.

1,379,542. METAL-COATING COMPOSITION. THOMAS JEFFERSON ETHRIDGE, Longview, Tex. Filed May 24, 1920. Serial No. 383,933. 5 Claims. (Cl. 134—51.)

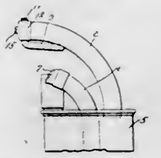
3. A painting composition comprising asphalt, graphite and crude oil.

1,379,543. BARREL-RECOIL GUN. FRITZ FINCKH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,376. 5 Claims. (Cl. 89—37.)



1. A barrel recoil gun which comprises a gun barrel, a cradle, and means on said cradle whereby the horizontal axis about which the gun barrel oscillates can be brought to distances of different length from the breech end of the cradle.

1,379,544. CLEAN-OUT FOR BURNERS. EMANUEL FOLGMAN, Brooklyn, N. Y. Filed Jan. 26, 1920. Serial No. 354,098. 4 Claims. (Cl. 158—72.)

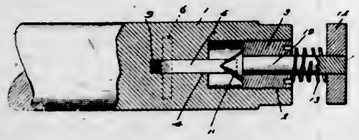


3. In a self-blowing torch, a plurality of retort tubes, plug members supported in the ends of said retort tubes, a burner tube having a passage therein, said plug members being provided with a plurality of right angular passages arranged within said plug members and adapted to establish communication between the retort tubes and the burner tube, one of the passages of the plug members being arranged in alinement with the passage through the burner tube, and means for closing a portion of each of said passages.

1,379,545. INSIDE PIPE-CUTTER. TROY J. FONDA, Oconto, Nebr. Filed July 23, 1920. Serial No. 398,420. 1 Claim. (Cl. 81—195.)

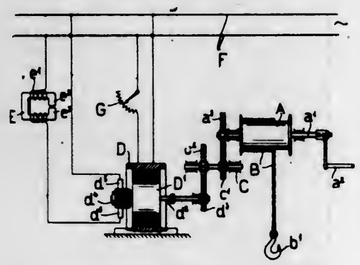
A device of the class described comprising a body having a screw threaded socket and slots in its sides com-

munication with said socket, cutters pivoted in said slots and having their cutting edges projecting outwardly, spring means for holding said cutters inwardly with the edges within the slot, a bushing in said socket, a spreader



bolt carried by the bushing and having its enlarged upper end adapted to engage the cutters for forcing their edges outwardly, a nut on the lower end of the bolt for engaging the obstruction and a spring for normally holding the bolt out of engagement with the cutter.

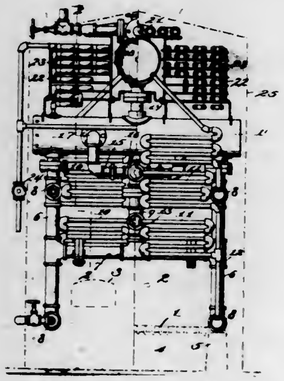
1,379,546. APPARATUS FOR RAISING OR LOWERING A LOAD. RUDOLF FÖRSTER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,384. 4 Claims. (Cl. 172—152.)



1. In a hoisting mechanism, the combination of means for imparting the desired ascending and descending velocity, and means comprising an electro-motor for approximately compensating for the load at any speed.

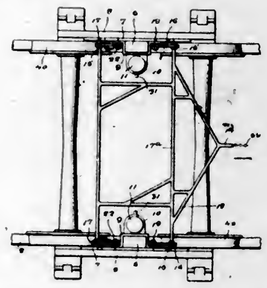
2. Apparatus such as set forth in claim 1, in which the compensating motor is a shunt wound commutator motor, having an alternating current source of constant tension and frequency and the rotor circuit of which has, in comparison with its ohmic resistance, a high inductive resistance.

1,379,547. STEAM-BOILER. HORACE FURMAN, Petersburg, Va. Filed Nov. 24, 1919. Serial No. 340,233. 5 Claims. (Cl. 122—355.)



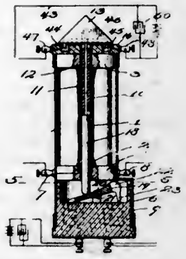
1. A steam boiler comprising downtake and uptake manifolds, water tube units connected to receive water from the downtake manifold and to discharge water into the uptake manifold, a drum connected at its bottom to the uptake manifold, a drum connected at its bottom to the top of the downtake manifold and connected at its side, at points in its length removed from its point of connection with the downtake manifold, to the uptake manifold, and a steam drum connected to the top of the drum first mentioned at a point between the points of connection of the first-mentioned drum with the uptake manifold.

1,379,548. FLUID-PRESSURE RAIL-BRAKE. PETER J. GAILLARD, Chicago, Ill. Filed July 25, 1919. Serial No. 313,167. 3 Claims. (Cl. 188—41.)



1. The combination in a rail brake, of a truck, vertically disposed longitudinal plates fixed to the ends of the truck, vertically movable shoes having shanks movable against said plates, strips straddling said shanks and fixed to said plates, vertically disposed cylinders fixed to the strips at the opposite sides of the shanks with reference to the plates, and pistons movable in said cylinders and connected to said shanks.

1,379,549. ELECTRIC RELAY. MANIOUS GARL, Akron, Ohio. Filed May 24, 1917. Serial No. 170,696. 9 Claims. (Cl. 200—112.)

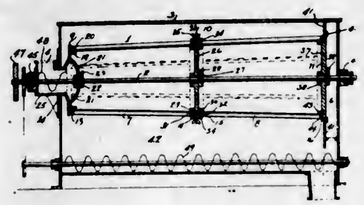


5. In a relay having an armature movable in consequence of the energizing and deënergizing of the relay-winding, a vertically reciprocable indicator actuated by said armature, said indicator havin downwardly directed and projecting contacts, and a pair of mercury wells located in the line of movement of said contacts and into which said contacts are adapted to dip.

1,379,550. FLOUR-SIFTER. EUGENE GASE, Saginaw, Mich., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Filed Oct. 25, 1920. Serial No. 419,497. 2 Claims. (Cl. 83—39.)

1. In a rotary flour sifter, in combination with removable sieves consisting of sifting cloth fixed to iron frames shaped to form a reel of truncated-pyramidal shape, of a driving shaft coaxial to the said reel, of three spider wheels fixed to the said shaft, one for each

end and one for the middle-portion of the said reel, of hexagonal brackets provided at the rims of the said spider wheels and so constructed and arranged as to support the said sieves for forming the said reel, of means provided in the rim of the said two end spider



wheels for keeping the outer ends of the said sieves, when pushed against the same, in position on the said brackets, and of means mounted on the rim of the said middle spider wheel for locking the said sieves securely in their position on the said brackets.

1,379,551. CRYPTOGRAPHY. HENRY C. GAUSS, Washington, D. C. Filed Sept. 17, 1920. Serial No. 410,919. 22 Claims. (Cl. 35—13.)



1. A system of cryptography comprising arbitrary allotments of letters, said allotments comprising a number of groups, each derived from a predetermined number of alphabets and assigning to each such allotment a symbol comprising a permutation of the units of a like number of groups of arbitrary symbol units, each group containing units less in number than the letters of the alphabet.

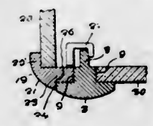
1,379,552. BOAT-HULL. GEORGE GEIST, New York, N. Y. Filed Sept. 20, 1920. Serial No. 411,652. 1 Claim. (Cl. 114—80.)



A boat hull comprising a side portion having a plurality of integral, vertically extending wavelike corrugations throughout its length, said corrugation having an amplitude relatively small compared to the wave length, each wave length being relatively large compared to the length of the hull.

1,379,553. COUNTER-GUARD CONSTRUCTION. CHARLES A. GLOEKLER, Pittsburgh, Pa. Filed Oct. 10, 1919. Serial No. 329,770. 4 Claims. (Cl. 211—25.)

1. The combination with a counter-guard bracket body having an upright front plate and an upright web reaching rearwardly at an angle from said front plate; of an upright flanged attachment arranged to bear against said



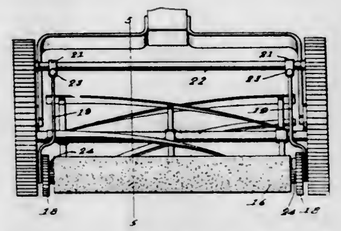
front plate and having a lateral hook to reach around and straddle said web.

1,379,554. SHOWCASE AND COUNTER-GUARD CONSTRUCTION. CHARLES ZIEFEL and KARL J. GLOEKLER, Pittsburgh, Pa. Filed Feb. 3, 1920. Serial No. 355,937. 3 Claims. (Cl. 211—25.)



3. An upright metallic corner bracket for joining front, end and top plates and fixing the same relatively to each other; said corner bracket comprising an upright body member to receive the ends of front and end plates, a hollow outwardly-projecting integral head at the upper end of the body member to receive a corner of a top plate, and means connected with the inner side of the body member to retain the ends of front and end plates in said body member.

1,379,555. LAWN-MOWER ATTACHMENT. ALLAN GOODFELLOW, Norton, Mass. Filed Oct. 24, 1919. Serial No. 332,943. 2 Claims. (Cl. 56—249.)

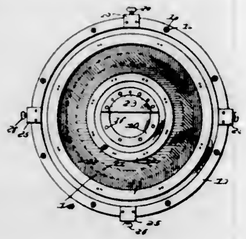


1. The combination with a lawn mower, of a brush carried by the mower and operating in advance of the cutting blades thereof for causing the grass to assume an upright position before being reached by said blades and means for revolving the brush when the mower is traveling in one direction and permitting the brush to remain idle when the mower is traveling in an opposite direction.

1,379,556. HEADLIGHT-DIMMER. JOHN GORMAN, Hot Springs, Ark. Filed Mar. 1, 1920. Serial No. 362,539. 2 Claims. (Cl. 240—48.4.)

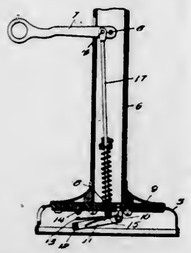
1. A headlight dimmer having a plurality of concentric marginal and intermediate bands of which the outer marginal band carries clamps for attachment to a headlight casing and the inner band carries an overhanging arched

hood, means for securing the bands in concentric relation and a light-penetrable webbing carried by and covering



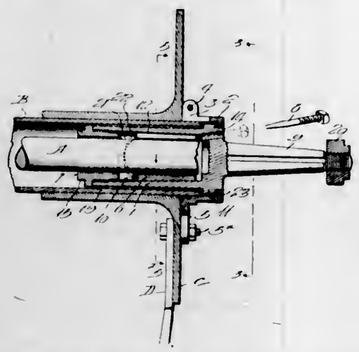
the intervals between said marginal and intermediate bands.

1,379,557. RECEIVER-HOOK SWITCH FOR PORTABLE TELEPHONES. JOHN T. GRAY, Great Falls, Mont. Filed Aug. 13, 1919. Serial No. 317,233. 5 Claims. (Cl. 179—164.)



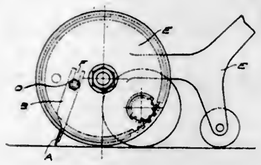
1. In a telephone, a base connected with an upright, a switch upon a supporting plate within said base, said switch comprising an arm pivoted to said base and having at its free end a contact member adapted to engage a contact member on said supporting plate, a rod within the upright and extending through said supporting plate, the lower portion of said rod engaging said pivoted arm intermediate between its point of support and the contact member carried by it, a receiver hook pivoted to the upright and pivotally supporting said rod and means comprising a resilient member for closing the switch when the hook is raised.

1,379,558. EMERGENCY AXLE ATTACHMENT. JULIUS ANTON HAFFNER, Lima, Mont. Filed Jan. 15, 1920. Serial No. 351,724. 7 Claims. (Cl. 301—130.)



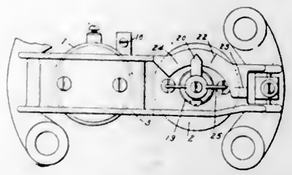
1. In an axle-attachment, a main body comprising a wheel-spindle and a socket, a self-contracting axle-clamp in said socket, and means to increase the contraction and consequent clamping efficiency of said axle-clamp upon rotation of an axle clamped by said axle-clamp.

1,379,559. LAWN-MOWER. ROBERT TINNING HALLIDAY, Cross, Blackwood, Scotland. Filed Apr. 16, 1920. Serial No. 374,340. 1 Claim. (Cl. 56—294.)



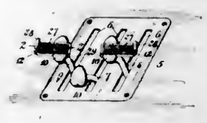
In combination with a lawn mower, a bar extending across the front of the mower, said bar being rearwardly and upwardly inclined, being provided with serrations on its lower edge, and being also provided at its ends with upwardly extending arms, said arms being vertically adjustably secured to the mower.

1,379,560. PROTECTIVE DEVICE FOR INCANDESCENT LAMPS. CROMWELL A. B. HALVORSON, Jr., Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1916. Serial No. 127,812. 7 Claims. (Cl. 175—374.)



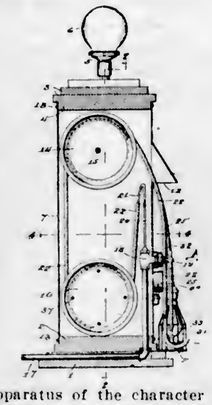
2. The combination with an incandescent lamp of a coil in series therewith, a coil in shunt to the lamp and the series coil, a movable contact member operated by each of said coils, and a resistance the parts being so arranged and proportioned that when the lamp is not in operation the resistance will be in shunt with the lamp and the series coil, when current starts to flow in the lamp the resistance will be open circuited by the contact member operated by the series coil, and when the voltage across the lamp rises above a predetermined value the resistance will be thrown in shunt with the lamp and the series coil by the contact member operated by the shunt coil.

1,379,561. PEDAL ATTACHMENT FOR AUTOMOBILES. HARRY D. HATHAWAY, Buffalo, N. Y. Filed Apr. 5, 1920. Serial No. 371,225. 9 Claims. (Cl. 74—81.)



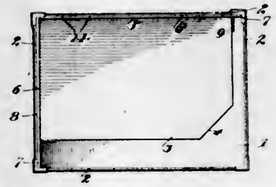
1. In a pedal attachment of the character described, a body portion having a medially arranged elongated slot therein between its ends, a securing element passed through said slot, and means extending from one end of said body portion and adapted to receive said securing element.

1,379,562. DISPENSING APPARATUS FOR AUTOMOBILE SERVICE. JOHN HENRY HECKER, Covington, Ohio. Filed Sept. 2, 1920. Serial No. 407,717. 5 Claims. (Cl. 299—77.)



3. In an apparatus of the character described, a plurality of assembled separated casings, a binding cap and a base for the casings, a shaft extending through the casings, sheaves revoluble in the casings on the shaft, gravity sheaves loose within the casings, and dispensing conductors connected with a source of supply through said base and having the gravity sheaves riding thereon, all of said sheaves fitting the casings so as to prevent dislodgment of the conductors.

1,379,563. PARTITION STRUCTURE FOR BOXES. ISIDORE M. HESCHELES, New York, N. Y. Filed Oct. 4, 1920. Serial No. 414,486. 1 Claim. (Cl. 217—7.)



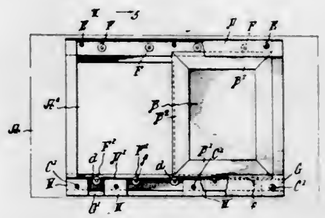
As a new article of manufacture, in combination with a box, of a partition-structure therein comprising a vertical side-wall and a vertical end-wall of the same height as and fitting the inner faces of corresponding walls of said box to keep the partition-structure from accidental displacement, a horizontal shelf engaging the inner faces of and terminating short of the outer ends of said vertical walls, horizontal fastening means extending through said vertical walls and fastened to the outer faces of said vertical walls and to the outer edges of said shelf within the outer marginal ends of said vertical walls, and said shelf provided with a cut-away corner for facilitating the gripping of the shelf when in the box for quickly, manually removing the partition structure from the box.

1,379,564. SHOE. MEYER S. HESS, Baltimore, Md. Filed May 27, 1918. Serial No. 236,837. 10 Claims. (Cl. 36—44.)



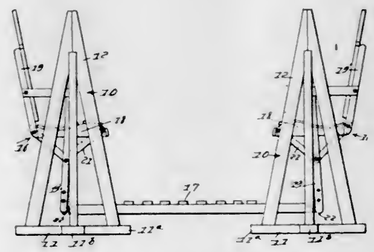
1. A composite insole comprising a plurality of layers having mutually engaging overlapping extensions by which they are interlocked.

1,379,565. DOOR-HANGER. EMORY HICKOK, Engle, N. Mex. Filed Nov. 2, 1920. Serial No. 421,369. 1 Claim. (Cl. 16—7.)



An antifriction arrangement for sliding doors, comprising an inverted metal trough substantially U-shaped in cross section, and having a series of transverse slots in the top thereof, a series of antifriction rollers mounted in said trough and having their cylindrical surfaces projecting through said slots and extending slightly above the top of said trough, reinforcing plates mounted at each side of said trough, and spacing blocks mounted in said trough between said rollers, with bolts securing said plates, said blocks, and said trough together and to the parts of the building surrounding the doorway, and guide rollers mounted above and parallel to said first mentioned rollers, in combination with a door having its upper and lower sides parallel, with its lower edge adapted to rest upon said lower rollers, and its upper edge engaging said guide rollers.

1,379,566. SWING. JAMES E. HOLLAND, Douglasville, Ga. Filed Dec. 2, 1920. Serial No. 427,876. 3 Claims. (Cl. 155—61.)

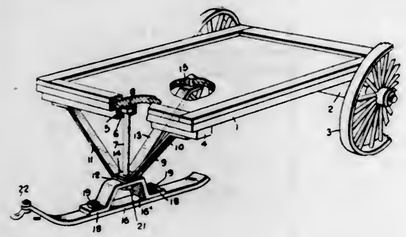


1. A self supporting swing structure having pairs of independent standards of which the members are arranged in transversely opposite positions and are provided at their upper ends with depending perforated suspension ears, seat members having outwardly and downwardly directed suspension hooks for engagement with said ears, and a foot rest having terminal hook and eye connection with the lower ends of the seat members.

1,379,567. VEHICLE. BENJAMIN WEST HOWARD, Newmarket, Ontario, Canada. Filed Oct. 11, 1920. Serial No. 416,223. 1 Claim. (Cl. 280—8.)

In a vehicle, the combination with a vehicle body, rear axle and wheels mounted thereon, of a cross bar secured at the front of the vehicle body and beneath the same and having a recess in its upper face and an orifice extending from such recess, a bolt having a head fitting the recess and depending through the orifice, bracing members extending from each side of the vehicle and terminating in a horizontal interconnecting portion, a rearwardly inclined brace having a horizontal lower end fitting upon the aforesaid interconnecting portion and secured at its

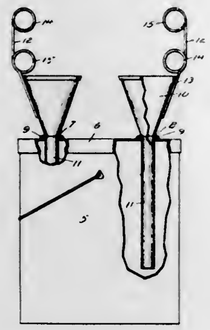
upper end to the vehicle body, a runner, an arched bracket secured to the runner through which and the



horizontal portions of the bracing members the bolt extends, and a nut secured upon the lower end of the bolt within the arched bracket.

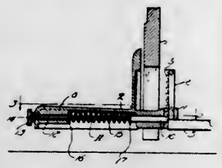
1,379,568. [WITHDRAWN.]

1,379,569. FUNNEL. DEAN STANLEY JACKSON, Albany, N. Y. Filed Feb. 3, 1921. Serial No. 442,133. 6 Claims. (Cl. 226—31.)



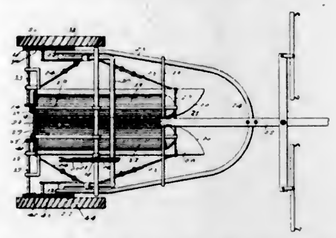
1. An article of manufacture comprising an open funnel having an elongated extension and a resilient finger grip secured to the side of said funnel and extending considerably above and inwardly of the top thereof for supporting the same.

1,379,570. PEDAL DEVICE. BENJAMIN H. JEFFERSON, Chicago, Ill., assignor to Lyon & Healy, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1919. Serial No. 336,270. 1 Claim. (Cl. 84—230.)



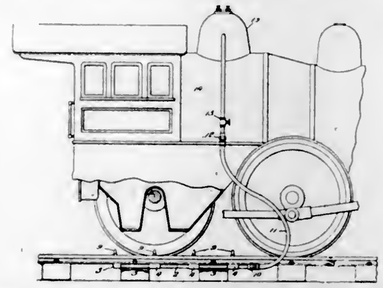
A pedal device comprising a pedal member and a support therefor, said support having an upwardly extending member provided with a rack and said pedal having a loop shaped member surrounding said upwardly extending member, a pin carried by the pedal member and adapted to coöperate with the teeth of said rack, said pin being provided with a longitudinally extending spindle projecting in front of the front end of the pedal member, an adjustable nut on the end of said spindle and a spring surrounding said spindle and inclosed within space in said pedal member, said spring being adapted to hold said pin normally in engagement with said rack.

1,379,571. STALK PULLER AND GRINDER. OSCAR T. JONES, Silver City, Miss. Filed Dec. 23, 1919. Serial No. 346,876. 4 Claims. (Cl. 55—66.)



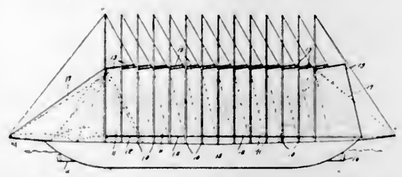
1. A machine for the purpose described having pairs of coöperating crushing rolls disposed axially in planes parallel with the direction of progress of the machine, means for guiding plant stalks to the operative faces of said rolls, and means for rotating the rolls of each pair in opposite directions to cause an upward movement of their contiguous faces.

1,379,572. ASH-PAN HEATER FOR LOCOMOTIVES. GEORGE JORGENSON, Fargo, N. D. Filed Feb. 25, 1921. Serial No. 447,905. 2 Claims. (Cl. 104—51.)



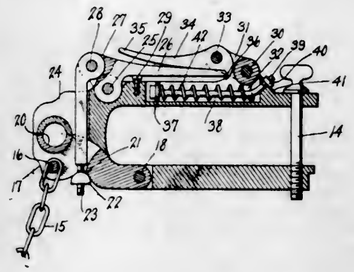
1. In a means for heating the ash pan of a locomotive prior to and at the dumping thereof, the combination of a track and a locomotive which travels on the track, of a series of steam conducting pipes disposed transversely between the rails of the track, upstanding nozzles on the pipes, a longitudinal pipe connecting the transverse pipes, and a flexible connection between the longitudinal pipe and the steam dome of the locomotive.

1,379,573. RIGGING FOR SAILING VESSELS. CHARLES JULIEN, Jersey City, N. J. Filed Nov. 19, 1920. Serial No. 425,206. 5 Claims. (Cl. 114—102.)



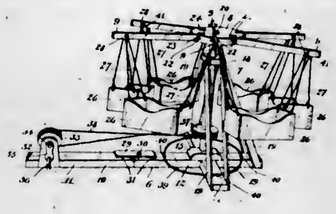
1. A rigging for sailing vessels wherein the main sails are arranged in fore and aft overlapping relation.

1,379,574. AUTOMATIC-RELEASE CLEVIS. JOHN M. KAHL, Heaton, N. D. Filed Aug. 16, 1920. Serial No. 403,662. 5 Claims. (Cl. 213—67.)



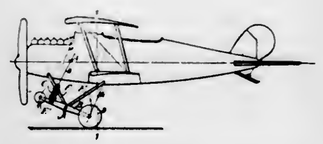
2. An automatic release clevis comprising a body having a jaw, a movable jaw pivoted to the body, a connecting rod engaged with the movable jaw, a lever fulcrumed on the body and connected with the connecting rod, a trip member pivoted on the body, a second lever pivoted to one arm of the trip member and having a portion receiving the free end of the first-named lever, and a spring housed in the body and bearing against the other arm of the trip member.

1,379,575. TOY AERIAL SWING. CHARLES J. KERN, Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y., a Corporation of New York. Filed Apr. 24, 1919. Serial No. 292,268. 8 Claims. (Cl. 46—27.)



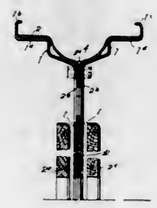
1. A device of the kind described, comprising a foldable base, a vertical mast having its lower end journaled in said base, means for supporting said mast at a point spaced from said base, a driving element mounted on the foldable part of said base, transmission means between said driving element and said mast, arms extending outwardly at the upper end of said mast, and aerial elements suspended from said arms.

1,379,576. LANDING CARRIAGE OR FRAME FOR AIRCRAFT. EDWARD BRICE KILLEN, London, England. Filed June 3, 1919. Serial No. 301,406. 1 Claim. (Cl. 244—2.)



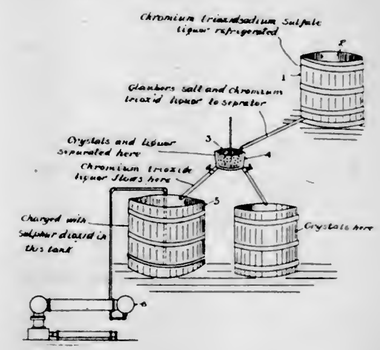
An airship, a landing frame arranged below the body of the airship, said landing frame being pivotally mounted at a point intermediate its ends for vertical angular movement, a shock absorbing spring arranged to normally raise one end of the landing frame, a buffer wheel mounted at the elevated end of the landing frame, a landing wheel mounted at he lower end of the landing frame, a tie wire secured to the airship body and to the upper end of the spring, and a flexible cable to limit the pivotal movement of the landing frame, said cable being connected to the body of the airship and also to the lower end of the landing frame.

1,379,577. WHEEL AND WHEEL-FITMENT. EDWARD BRICE KILLEN, London, England. Filed Feb. 26, 1920. Serial No. 361,531. 2 Claims. (Cl. 301—64.)



1. A divisible disk wheel with four main dishlike stampings each of which is manufactured in one piece from center hole to circumference, the two outer stampings being detachable from the two inner and forming the front and back faces of the wheel and a hooking clamping device at the wheel's outer circumference, the two inner stampings being rigidly attached together back to back and forming a circumferential distance piece and a rim which lies keyed and locked by and between the extreme hooking flanges of the two detachable face stampings, substantially as described.

1,379,578. PROCESS FOR THE CONVERSION OF CHROMATE AND BICHROMATE OF SODIUM OR POTASSIUM TO CHROMIC SULFATE. FRANK MELBOURNE MOONEY, Montreal, Quebec, Canada, assignor to Formation Syndicate, Montreal, Canada. Filed May 22, 1920. Serial No. 383,599. 3 Claims. (Cl. 23—13.)



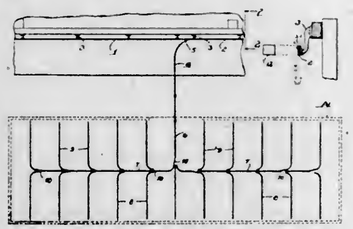
1. The process of making chromic sulfate comprising the freeing by refrigeration of a solution of chromium trioxid from Glauber's salt, the drawing off of the liquor containing chromium oxid and the charging of the said liquor with a reducing sulfur-containing gas.

1,379,579. PUMP MECHANISM. PONTUS OSTENBERG, San Jose, Calif. Filed June 8, 1920. Serial No. 387,330. 12 Claims. (Cl. 253—199.)



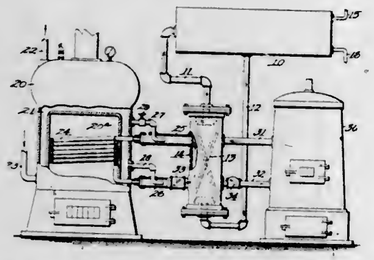
1. An article of manufacture comprising a discharge casing section and a shaft casing section arranged therein and supported under tension thereby.

1,379,580. RAIL SYSTEM. DAVID SHORT, Sioux City, Iowa. Filed Feb. 1, 1921. Serial No. 441,626. 6 Claims. (Cl. 104—91.)



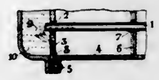
1. The combination with a refrigerator car of a main rail supported longitudinally in the center of the car, and a plurality of branch rails branching off in opposite directions from the main rail.

1,379,581. INDIRECT WATER-HEATING APPARATUS. CHETWOOD SMITH, Worcester, Mass., assignor to Stack Heater Company, Boston, Mass., a Corporation of Massachusetts. Filed May 6, 1919. Serial No. 295,219. 4 Claims. (Cl. 122—37.)
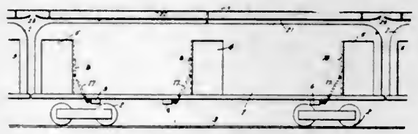


1. Indirect water heating apparatus comprising an indirect heating chamber, a main water heater, an additional heating device capable of heating water to a higher temperature, and connections permitting the flow of water from said device to said heating chamber under normal conditions and permitting the flow of water from said device to said main heater whenever the temperature of the water in said additional heating device and said heating chamber materially exceeds the temperature of the vater in said main heater.

1,379,582. PROCESS FOR THE PROTECTION AGAINST ELECTROLYTIC DESTRUCTION. FRANZ VON WURSTEMBERGER, Zurich, Switzerland. Filed July 23, 1920. Serial No. 398,385. 2 Claims. (Cl. 204—1.)



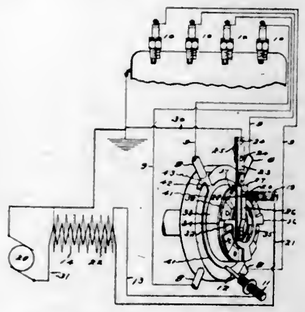
1. The method of protecting from electrolytic destruction certain parts of apparatus which contain at least two liquid spaces and are constructed of different metals, from electrolytic destruction, which comprises equalizing the differences of potential that occur between any parts of different metals contacting with a liquid acting as an electrolyte by connecting together those parts by well conducting durable short circuit devices.

1,379,583. CAR-DOOR. SAMUEL THOMAS WALKUP, New York, N. Y. Filed Sept. 6, 1919. Serial No. 322,047. 4 Claims. (Cl. 268—7.)



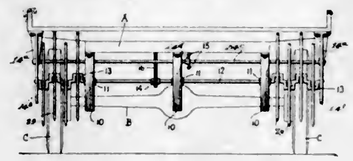
1. In a car door control system for trains, a contact rail adjacent which a car is adapted to come to rest, car door operating means, means for electrically controlling said car door operating means, including a contact member on the car adapted to engage the said rail, and a hand switch adapted for mounting on a stationary part independent of the car.

1,379,584. CURRENT-DISTRIBUTER FOR INTERNAL-COMBUSTION ENGINES. HAROLD D. WATERHOUSE, West Hartford, Conn. Filed Oct. 23, 1919. Serial No. 332,748. 8 Claims. (Cl. 200—20.)



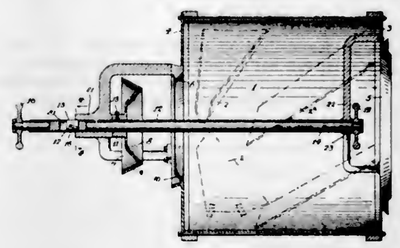
1. A current distributer for internal combustion engines comprising a sleeve adapted to be secured to a rotatory shaft, an insulating casing rotatably mounted on the sleeve, a binding post with a conducting contact mounted on the casing, a resilient metallic arm with one end secured to the casing, an insulating block secured to the sleeve, a cam connected with the block and adapted at intervals to place the resilient arm under tension and cause the repeated engagement of the arm with the binding post contact, binding posts on the casing, and a conductor rotatable with the block and adapted to sequentially electrically communicate with the last mentioned binding posts.

1,379,585. EXTRICATING DEVICE FOR MOTOR-VEHICLES. JOHN E. COGGON, Viola, Wis. Filed July 12, 1920. Serial No. 395,671. 2 Claims. (Cl. 180—8.)



1. In combination with a motor truck, an extricating device comprising guide members depending from the rear portion of the truck, a horizontal shaft slidably mounted within said guides and having its end portions formed with cranks, a second shaft journaled above said first named shaft, a plurality of steppers mounted upon said crank portions and having their upper ends slidably and rockably engaged upon said second named shaft, means for raising and lowering said first named shaft, and means for turning said first named shaft, said raising and lowering means comprising sprockets secured upon said second named shaft, other sprockets journaled at the lower ends of said guides, chains trained about corresponding ones of said sprockets and connected with said slidable support, and means for rocking said second named shaft.

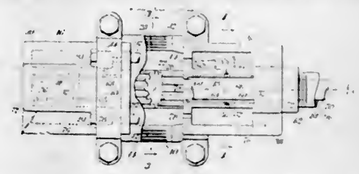
1,379,586. CONCRETE-MIXING APPARATUS. JOHN P. FABER, Dunellen, N. J., assignor to Ransome Concrete Machinery Company, a Corporation of New York. Filed Apr. 6, 1917. Serial No. 160,088. 10 Claims. (Cl. 83—73.)



1. The combination of a rotatable drum, provided with a discharge opening at one head, said discharge opening being at the axis of rotation, a door supporting member extending to said opening and a door mounted thereon, said supporting member being mounted on the drum, and means for moving the said supporting member and the door to and from the said discharge opening to open and close the same, the said door supporting member comprising a hollow member extending parallel with the axis of the drum and connected with the door, and a member movable with the same, and means for securing the door operable by the movement of said inner member.

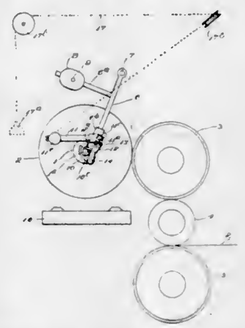
1,379,587. PUMP. JAMES P. FISHER, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 16, 1919. Serial No. 317,852. 21 Claims. (Cl. 103—44.)

1. A high speed gear pump, which comprises a gear chamber, a pair of intermeshing pumping gears disposed in substantial contact with walls of said chamber, rotatable shafts rigidly fastened to and supporting said gears, means for conducting fluid from the high pressure side of said gears to the sides of said shafts facing toward the



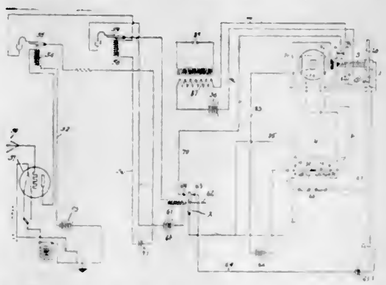
low pressure sides of the chamber, and means for withdrawing fluid from the low pressure sides of the shafts.

1,379,588. ROLL-SUPPORT. LORENZ FLICK, Sayleville, R. I., assignor, by mesne assignments, to Sayles Finishing Plants, Inc., Sayleville, R. I., a Corporation of Rhode Island. Filed Oct. 27, 1919. Serial No. 333,818. 12 Claims. (Cl. 242—65.)



1. The combination, in a roll-support, with a gravitating swinging arm, of a journal-engaging member connected movably with said arm, a gravitating operating lever, a link-connection between said lever and the said journal-engaging member and through which said lever moves said member into working position for engagement with a roll-journal and withdraws such member to free the roll-journal, and stops defining a position of said operating lever and link-connection in which they form a toggle-lock for the journal-engaging member.

1,379,589. WIRELESS APPARATUS. HENRY H. HYDER, Hollywood, Calif. Filed June 5, 1918. Serial No. 238,243. 9 Claims. (Cl. 250—2.)



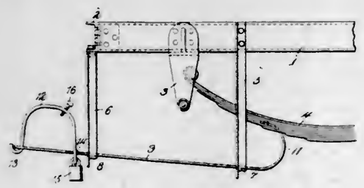
1. In mechanism of the character described, the combination of a movably mounted carriage, a guide arm movably attached thereto, means adapted to actuate said carriage in either direction, and a series of guides interposed between the normal path of said guide arm and a member

to be engaged thereby, said guides being adapted to actuate said guide arm into engagement with the member only upon a predetermined series of movements of said carriage.

1,379,590. FLEXIBLE PLASTIC COMPOSITION. ALBERT L. CLAPP, Danvers, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed June 23, 1920. Serial No. 391,164. 9 Claims. (Cl. 106—31.)

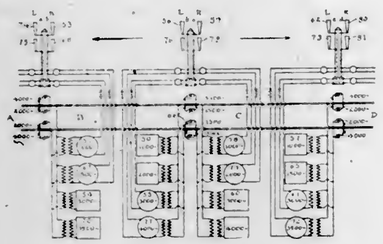
1. A composition of matter which is pliable, water-repellent and relatively non-adhesive at ordinary temperatures, and which comprises asphalt, clay and Portland cement.

1,379,591. TIRE-CARRIER FOR MOTOR-VEHICLES. PHILIP FORSCHLER and ALBERT L. FORSCHLER, New Orleans, La. Filed Sept. 7, 1920. Serial No. 408,767. 2 Claims. (Cl. 224—29.)



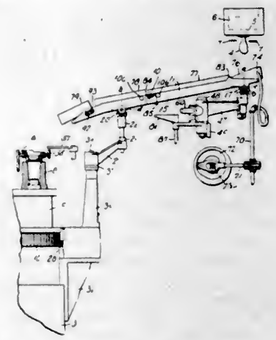
1. In a device for the purpose set forth, the combination of downwardly extending portions secured to the under side of the chassis, other downwardly extending portions secured to the rear of the chassis and integral portions extending from one to the other of the series of downwardly extending portions, a rib mounted on the integral portions and having an up-turned inner end and means arranged on the opposite end of the rib for securely fastening a tire thereon; said means comprising a bail that is hinged to the rib and having a portion that passes through an aperture of the rib and a thumb-screw arranged in the bail.

1,379,592. CONTROL-CIRCUITS FOR OPERATING BLOCK-SIGNALING DEVICES AND THE LIKE UPON RAILWAYS. JOHN A. MILLER, Waukegan, Ill., assignor to Laurence R. Wilder, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 374,793. 8 Claims. (Cl. 246—34.)



2. A system of the class described comprising a track divided into blocks, tuned bypasses connecting the rails of contiguous blocks, means for impressing a high frequency current capable of traversing said bypasses upon the rails of one block, and signal devices comprising a high frequency current receiver connected with the rails of the adjacent block, said signal devices indicating caution when said receiver is not detecting said high frequency current, and indicating safety when said receiver is detecting such high frequency current.

1,379,593. GLASS-CONVEYING APPARATUS. KARL E. PEILER, Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Mar. 20, 1915, Serial No. 15,875. Renewed July 18, 1917. Serial No. 181,452. 61 Claims. (Cl. 49—5.)



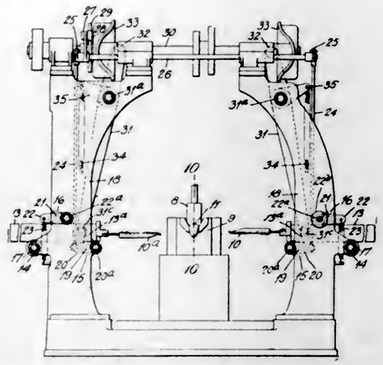
1. Apparatus for conveying molten glass, including means for delivering the glass, and a conduit mounted for lateral movement at different portions of its length independently of each other.

43. In apparatus for conveying molten glass, the combination of an inclined conduit, means for supplying lubricating fluid to a higher portion of the conduit whereby the fluid flows to a lower portion, and means for diverting the flow of the fluid before it reaches the end of the conduit.

48. The combination, in feeding and conveying apparatus for conveying molten glass, of an outlet for the molten glass, a cullet receptacle located below the outlet, and a conduit movable into position to intercept the glass fed from the outlet and conduct it away, and movable away from that position to allow the glass to fall into the cullet receptacle.

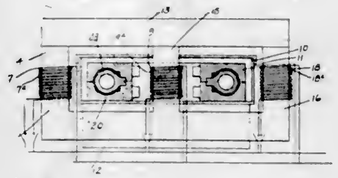
58. Means for delivering molten glass to receptacles moving in a curved path, from a source of supply at one side of that path, including a delivery conduit mounted for sidewise and endwise movements to approximately follow the said path.

1,379,594. GLASS-SEVERING. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed June 18, 1918. Serial No. 240,674. 15 Claims. (Cl. 49—14.)



1. In a machine having reciprocatory shear blades for cutting molten glass, mechanism for independently tilting each of the shear blades downwardly while they are cutting.

1,379,595. APPARATUS FOR THE TREATMENT OF ARTICLES WITH HEAT. CLIFFORD W. POST, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 22, 1919. Serial No. 298,964. 9 Claims. (Cl. 18—6.)

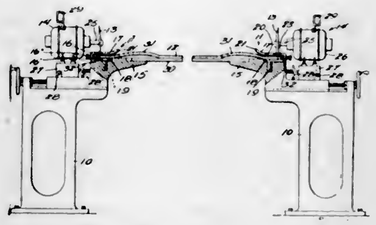


1. In an apparatus of the kind described, a mold of electric conducting material adapted to have a rubber article associated therewith, said mold having a groove, a ring in said groove of material of different resistance from that of said mold, said ring being replaceable by rings of different material, and means for inducing an electric current in said mold and ring to heat the same, the degree of heat being controlled by the relative resistance of said ring.

1,379,596. CELLULOSE-NITRATE COMPOSITION. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 26, 1919. Serial No. 292,998. 4 Claims. (Cl. 106—37.)

4. A composition of matter comprising cellulose nitrate, triphenyl phosphate and fusel oil.

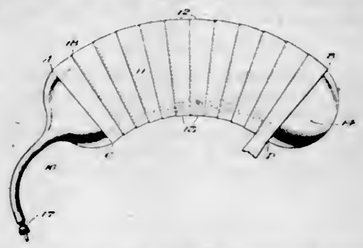
1,379,597. SELVAGE-TRIMMER. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 6, 1918. Serial No. 261,352. 23 Claims. (Cl. 164—61.)



1. The herein described method of trimming fabric which consists in effecting movement thereof and, at substantially the same time, producing a reactive buckle in the fabric contiguous to its edge, and then trimming such fabric along a line somewhat removed from the edge.

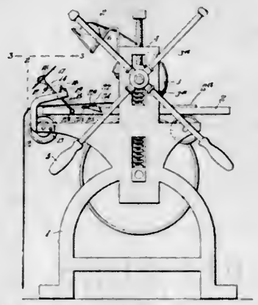
1,379,598. AIR-BAG AND METHOD OF WRAPPING THE SAME. RICHARD S. BURDETTE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 321,130. 14 Claims. (Cl. 18—45.)

1. The method of producing a strip of fabric for winding about the ring portion of an annular object, which consists in longitudinally cutting a length of fabric to produce uniform alternate wide and narrow portions adapted



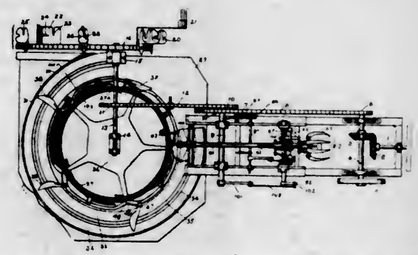
to cover respectively the outer and inner peripheries of said object.

1,379,599. LABEL-PRINTING MACHINE. JULIUS M. REIS and BENJAMIN FRIEDMAN, New York, N. Y., assignors to G. Reis & Bro., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 2, 1918. Serial No. 260,816. 4 Claims. (Cl. 101—261.)



1. A machine for printing labels on tape of woven fabric having in combination, a solid printing plate for printing labels on tape, a coöperating solid pressure member, a relatively soft covering for said pressure member, means whereby the tape is automatically fed between said plate and pressure member, and means operating in timed relation to said printing means to make transverse slits in the tape to form places therein for the engagement with automatic feeding means, said slit making means comprising rounded disrupting means embedded in said soft covering and backed firmly by said solid pressure member and adapted to engage a substantially solid flat face on said printing plate.

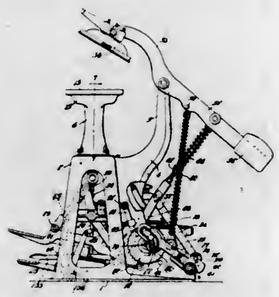
1,379,600. FRUIT-HANDLING MACHINE. JAMES HENRY TOMPKINS and CARROLL J. FOSTER, Webster, N. Y. Filed June 4, 1920, Serial No. 386,574. Renewed Apr. 8, 1921. Serial No. 459,742. 9 Claims. (Cl. 146—8.)



1. A machine for handling fruit comprising a vertical elevating mechanism, a track, a feeding mechanism mount-

ed to travel over said track, and a vertical pick up mechanism, said horizontal feeding mechanism being adapted to right the fruit during its travel over said track feeding mechanism and place the fruit into a predetermined position with relation to said pick up mechanism.

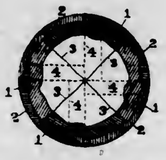
1,379,601. GARMENT-PRESS. WILLIAM E. ANDRÉE, Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Original application filed June 7, 1916, Serial No. 102,296. Divided and this application filed Oct. 31, 1919. Serial No. 334,785. 60 Claims. (Cl. 68—9.)



1. In a garment press, relatively movable pressing members, means including treadle mechanism for producing closing and opening movement of the press, motor means, means actuated thereby for exerting a final pressure between said members and means for locking the treadle mechanism against operation by the operator during the application of pressure by the final pressure creating means.

REISSUES.

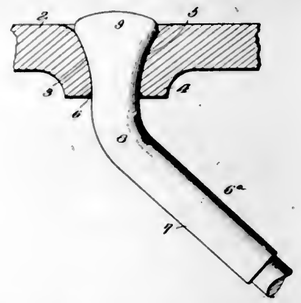
15,108. NON-PNEUMATIC RUBBER BALL AND PROCESS OF MANUFACTURING THE SAME. KINSUKE FUKUDA, Tokyo, Japan. Filed Mar. 21, 1921. Serial No. 454,229. Original No. 1,320,221, dated Oct. 28, 1919, Serial No. 277,708, filed Feb. 18, 1919. 5 Claims. (Cl. 154—16.)



1. Process of manufacture of non-pneumatic rubber ball, characterized by making firstly an inner ball of four quadrantal segments made of the raw material of the spongy rubber, secondly in covering the inner ball by four quadrantal segments of the outer ball made of the raw material of the ordinary rubber, not coinciding the seams with each other and thirdly by heating suitably the double ball thus made in a mold, so as to convert the outer ball into the ordinary rubber and the inner ball into the spongy rubber, substantially as set forth.

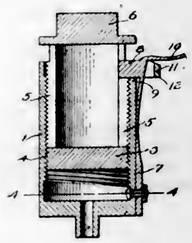
15,109. WIRE-SPOKE CONNECTION. JAMES H. GRAHAM, Torrington, Conn., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Mar. 23, 1921. Serial No. 454,904. Original No. 1,333,019, dated Mar. 9, 1920, Serial No. 188,434, filed Aug. 27, 1917. 3 Claims. (Cl. 184—48.)

1. A spoke connection comprising a hub having a lateral flange provided with a series of transversely projecting flanges thereon, said hub and flanges being provided with continuous openings, the walls of which form arcs of circles, the outer edges of said flanges flaring outwardly,



spokes fitting in said openings, said spokes being formed with bell-shaped heads, the walls of which are of substantially the size and formed on the same arc of a circle as the openings in the hub and flange.

15,110. LOCKING DEVICE. BURTON M. KENT, Sayre, Pa., assignor of one-half to Edward M. Ragan, Binghamton, N. Y. Filed Jan. 6, 1919. Serial No. 269,880½. Original No. 1,211,451, dated Jan. 9, 1917, Serial No. 42,369, filed July 28, 1915. 3 Claims. (Cl. 301—59.)

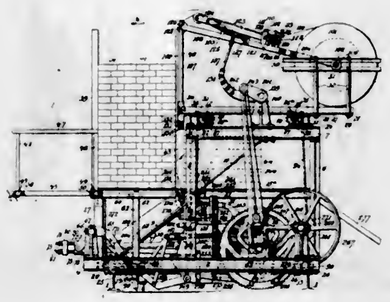


1. A device of the kind described, comprising a cup interiorly threaded, a plunger exteriorly threaded for engagement in the cup, said plunger having a longitudinal slot formed therein, a spring arm having one end fixed exteriorly to the side of the cup adjacent the bottom thereof and its other free end provided with a head adapted to engage said slot, said head bearing a finger piece and means carried by the cup adjacent said finger piece to constitute a hand hold in grasping said head for actuation thereof.

2. A device of the kind described, comprising a cup interiorly threaded, a plunger exteriorly threaded for operation therein, said plunger having a longitudinal slot formed therein, a spring arm having its lower end fixed exteriorly of the cup and its upper end provided with a head adapted to engage said slot, a finger piece carried by the head, and means mounted on the cup and adapted to be grasped with the finger piece to disengage the head from said slot, said means constituting also a guide and support for said head.

3. A device of the class described, comprising a cup interiorly threaded, a plunger exteriorly threaded for threaded engagement in the cup, said plunger having a plurality of longitudinal slots formed therein, a steel arm having its lower end fixed exteriorly of the cup, and its upper end provided with a head adapted to engage a selected slot, a finger piece carried by the head, and a bracket carried by the cup and adapted to be grasped with the finger piece to disengage the head from a selected slot.

15,111. AUTOMATIC BUNDLING AND TYING MACHINE. JAMES MARSHALL LEAVER, Jr., Oakland, Calif. Filed Apr. 19, 1920. Serial No. 375,163. Original No. 1,295,531, dated Feb. 25, 1919, Serial No. 137,876, filed Dec. 19, 1916. 229 Claims. (Cl. 100—31.)



1. In a machine for binding bundles of incompressible material, the combination with a main frame having a bundle support, of an upper auxiliary frame supported at the top of the main frame and carrying a needle bar, and a lower auxiliary frame disposed below the top of the main frame and carrying knotting mechanism which is located substantially at the lower edge of the bundle when in binding position.

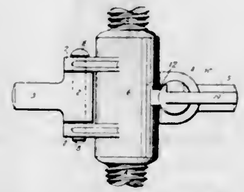
12. In a machine of the character described, means for feeding wire across the path of movement of a bundle of material forward and rearward of the same when moved, means for moving the material to bring said wire into loop formation about said material, means for uniting the stretches of the wire at the point of meeting of the same, and means for severing the wire beyond the point of uniting of its stretches together.

34. In a machine for binding bundles of incompressible material, a frame including a support for the bundle, means for moving the bundle along said support, wire knotting means, wire severing means, means for engaging the free end of the wire after each severing operation to draw predetermined lengths thereof outwardly to cover substantially one face of the bundle, a tension device for the wire, and guiding means for the drawn-out section of the wire.

123. In a machine for binding bundles of incompressible material, the combination of means for placing a band around a bundle, knotter mechanism for tying one end of the band to a section thereof, the tie or knot formed being located at one of the lower edges of the bundle and projecting from the latter, means for severing the wire beyond the tie and means carried by the knotter mechanism for bending the tie against one of the faces of the bundle.

228. In a machine for binding bundles of incompressible material, a frame having laterally spaced apart bundle-supporting elements, means for moving a bundle along said bundle-supporting elements into binding position and holding the bundle during the binding operation, a reciprocatory needle bar supported on the frame above said bundle-supporting elements and movable through the space between said supporting elements, a wire knotting mechanism supported on the frame below said bundle-supporting elements, said needle bar coacting with said wire knotting mechanism to deliver the wire thereto in the path of the bundle-moving means so that the bundle is moved against a substantially vertical strand of wire causing the bundle to be inclosed by the wire on three sides, the needle bar being actuated to inclose the fourth side, means for tensioning the wire as it is being drawn out to envelop the bundle, said wire knotting mechanism forming the knot on the band substantially at the lower edge of the bundle, means for severing the band, and means for gripping the end of the wire beyond the knot for the next operation, said means operating in such order whereby the binding operation is completed during a complete cycle of the machine.

15,112. SECTIONAL COAL-AUGER NUT. JULIUS HARWOOD MASON, Duncan Falls, Ohio, assignor, by direct and mesne assignments, to C. C. Hartzell, doing business as The Hartzell Sales Company, Huntington, W. Va. Filed Nov. 15, 1919. Serial No. 338,394. Original No. 1,297,215, dated Mar. 11, 1919, Serial No. 246,271, filed July 22, 1918. 6 Claims. (Cl. 255—46.)



1. In a sectional coal-auger nut, the combination with one of the nut sections provided with a lock having a key-hole and a slot communicating with said key-hole, and also, having a key provided with a head having a slot adapted to register with said lock slot, of the other nut section provided with a lug adapted, in closing said nut sections, to pass into said registering slots and clear through said key-head slot and into said key-hole, and to be locked therein by means of said key-head, substantially as described.

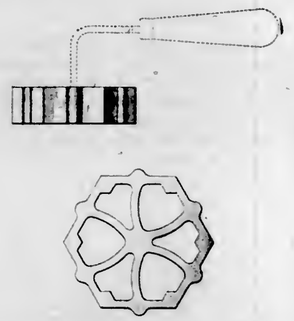
DESIGNS.

57,960. CASING FOR SCALES. EDWARD G. ALLEN and ABNER A. HAGAR, Seattle, Wash., assignors of one-third to Willis H. Bullinger, Los Angeles, Calif. Filed Jan. 10, 1921. Serial No. 436,377. Term of patent 14 years.



The ornamental design for casing for scales as shown.

57,961. WAFFLE-IRON. WILLIAM V. BOZZELLE and JOHN W. HUMMEL, Philadelphia, Pa. Filed Sept. 17, 1920. Serial No. 410,992. Term of patent 7 years.



The ornamental design for a waffle iron, as shown.

57,962. HOOD FOR MOTOR-VEHICLES. JOHN F. COEL, Cleveland, Ohio. Filed Jan. 3, 1921. Serial No. 434,808. Term of patent 7 years.



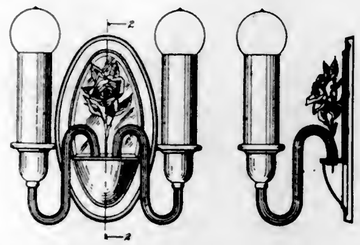
The ornamental design for a hood for motor vehicles substantially as shown.

57,963. HOOD FOR MOTOR-VEHICLES. JOHN F. COEL, Cleveland, Ohio. Filed Jan. 3, 1921. Serial No. 434,809. Term of patent 7 years.



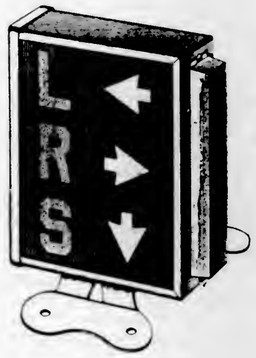
The ornamental design for a hood for motor vehicles substantially as shown.

57,964. WALL-BRACKET OR CANDELABRUM FOR ELECTRIC AND OTHER ILLUMINATION. JOSEPH W. DAVIDSON, Cincinnati, Ohio. Filed Oct. 25, 1920. Serial No. 419,544. Term of patent 14 years.



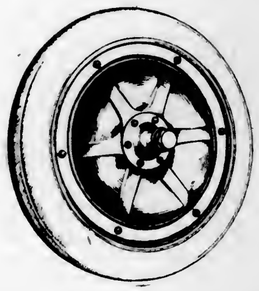
The ornamental design for a wall bracket or candelabrum for electric and other illumination, as shown and described.

57,965. SIGNAL. ISRAEL V. EDGERTON, Chicago, Ill., assignor to Double Safety Signal Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1920. Serial No. 428,131. Term of patent 14 years.



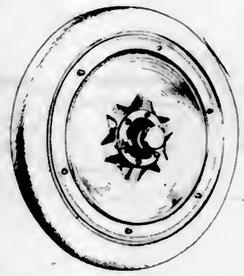
The ornamental design for a signal, as shown.

57,966. WHEEL. GEORGE H. FORSYTH, Chicago, Ill. Filed Feb. 5, 1921. Serial No. 442,839. Term of patent 14 years.



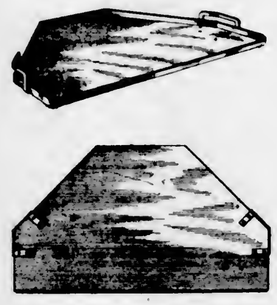
The ornamental design for a wheel, as shown.

57,967. WHEEL. GEORGE H. FORSYTH, Chicago, Ill. Filed Feb. 5, 1921. Serial No. 442,840. Term of patent 14 years.



The ornamental design for a wheel, as shown.

57,968. SERVICE-TRAY. DELIA GOODALE, Fort Collins, Colo. Filed Oct. 2, 1920. Serial No. 414,375. Term of patent 7 years.



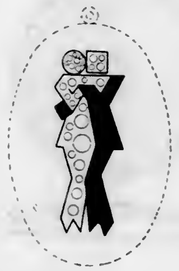
The ornamental design for a service tray, substantially as shown.

57,969. ARTICLE OF MANUFACTURE. JOSEPH P. HARTNETT, Rockaway Beach, N. Y., assignor to Cartier, Inc., a Corporation of New York. Filed Sept. 23, 1920. Serial No. 412,404. Term of patent 7 years.



The ornamental design for an article of manufacture, as shown.

57,970. ARTICLE OF MANUFACTURE. JOSEPH P. HARTNETT, Rockaway Beach, N. Y., assignor to Cartier, Inc., a Corporation of New York. Filed Sept. 23, 1920. Serial No. 412,405. Term of patent 7 years.



The ornamental design for an article of manufacture, as shown.

57,971. ARTICLE OF MANUFACTURE. JOSEPH P. HARTNETT, Rockaway Beach, N. Y., assignor to Cartier, Inc., a Corporation of New York. Filed Sept. 23, 1920. Serial No. 412,406. Term of patent 7 years.



The ornamental design for an article of manufacture, as shown.

57,972. ARTICLE OF MANUFACTURE. JOSEPH P. HARTNETT, Rockaway Beach, N. Y., assignor to Cartier, Inc., a Corporation of New York. Filed Sept. 23, 1920. Serial No. 412,407. Term of patent 7 years.



The ornamental design for an article of manufacture, as shown.

57,973. DISK WHEEL. LOUIS B. HARVEY, Stockton. Calif., assignor to Harvey Rim & Wheel Company, Inc. Buffalo, N. Y. Filed Feb. 25, 1920. Serial No. 361,270. Term of patent 14 years.



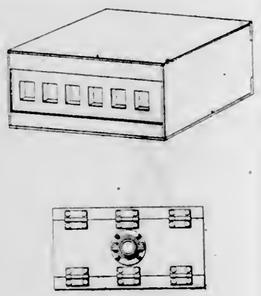
The ornamental design for a disk wheel, as shown.

57,974. BODY OF VEHICLE-LAMPS. MARJORIE S. HASELTON, Washington, D. C. Filed Sept. 30, 1920. Serial No. 413,924. Term of patent 7 years.



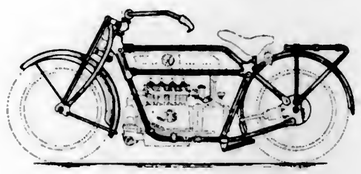
The ornamental design for a body of vehicle lamps as shown or its equivalent.

57,975. COMBINED FUSE AND PLUG RECEPTACLE BOX. WILLIS C. HOLLINS and FRANK P. ARROUSEZ, Los Angeles, Calif., assignors to Rosenburg & Co., Los Angeles, Calif., a Firm composed of Barnett Rosenburg and Jack Rosenburg. Filed Aug. 2, 1920. Serial No. 400,871. Term of patent 14 years.



The ornamental design for a combined fuse and plug receptacle box substantially as shown and described.

57,976. MOTORCYCLE-FRAME. GUSTAVE JOASSART, Liege, Belgium. Filed July 8, 1920. Serial No. 394,837. Term of patent 14 years.



The ornamental design for a motor-cycle frame, as shown.

57,977. BRACKET FOR WINDSHIELD-BLINDS. HERBERT A. KAITTING, Galt, Ontario, Canada. Filed Aug. 11, 1920. Serial No. 402,915. Term of patent 7 years.



The ornamental design for a bracket for windshield blinds, as shown.

57,978. BARBER'S POLE. WLADIMIR KAVAN, New York, N. Y. Filed Sept. 4, 1920. Serial No. 408,370. Term of patent 3½ years.



The ornamental design for a barber's pole, as shown.

57,979. BOTTLE. CHANDLER KING, Montgomery, Ala. Filed Oct. 14, 1920. Serial No. 417,053. Term of patent 14 years.



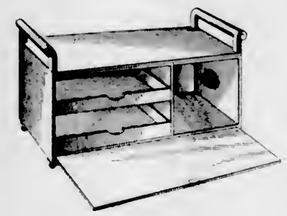
The ornamental design for a bottle as shown.

57,980. GOLF-PUTTER HEAD. ARTHUR A. KRAEUTER, Newark, N. J. Filed Mar. 9, 1921. Serial No. 450,973. Term of patent 14 years.



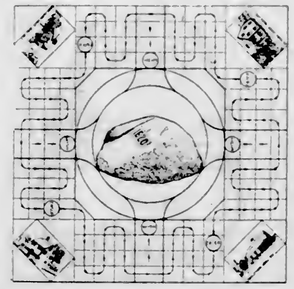
The ornamental design for a golf putter head as shown.

57,981. CHEST OR SIMILAR ARTICLE. MARY B. LOCKHART, Portsmouth, Va. Filed Oct. 4, 1920. Serial No. 414,680. Term of patent 14 years.



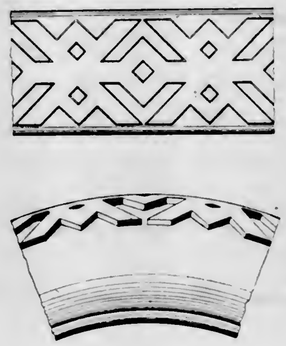
The ornamental design for a chest or similar article, as shown.

57,982. GAME-BOARD. WALTER S. LORING, Plymouth, Mass. Filed Oct. 19, 1920. Serial No. 418,099. Term of patent 14 years.



The ornamental design for a game board as shown.

57,983. TIRE. WILLIAM M. MACKINTOSH, Springfield township, Summit county, Ohio. Filed Oct. 25, 1920. Serial No. 419,549. Term of patent 14 years.



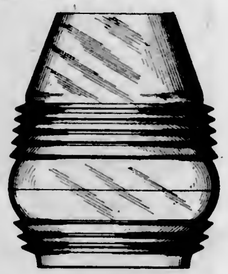
The ornamental design for a tire as shown.

57,984. COMBINED FRESNEL AND PLAIN LANTERN-GLOBE. WILLIAM N. MANUEL and EMILIO PASCUCCI, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Nov. 3, 1920. Serial No. 421,601. Term of patent 14 years.



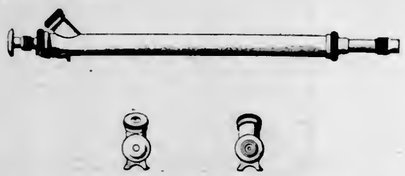
The ornamental design for a combined Fresnel and plain lantern globe, as shown.

57,985. FRESNEL LANTERN-GLOBE. WILLIAM N. MANUEL and EMILIO PASCUCCI, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Nov. 3, 1920. Serial No. 421,602. Term of patent 14 years.



The ornamental design for a Fresnel lantern globe, as shown.

57,986. OIL-GUN. CHARLES W. MANZEL, Buffalo, N. Y. Filed Sept. 16, 1920. Serial No. 410,768. Term of patent 14 years.



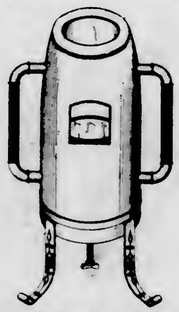
The ornamental design for an oil gun, as shown.

57,987. GREASE-GUN. CHARLES W. MANZEL, Buffalo, N. Y. Filed Sept. 16, 1920. Serial No. 410,769. Term of patent 14 years.



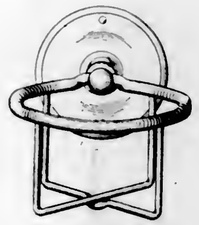
The ornamental design for a grease-gun, as shown.

57,988. EGG-TESTER. JOHN K. MARTINKA and ELIZI K. MARTINKA, New York, N. Y., assignor of one-third to Martin Tomecek, New York, N. Y. Filed Dec. 10, 1920. Serial No. 429,805. Term of patent 7 years.



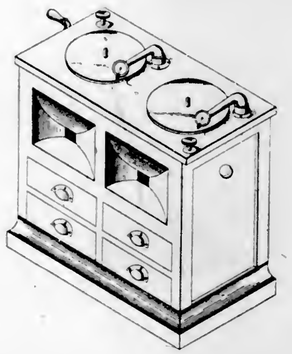
The ornamental design for an egg tester, as shown.

57,989. TUMBLER-HOLDER. CHARLES A. MOSGROVE, Watertown, Conn., assignor to The Autoyre Company, a Corporation of Connecticut. Filed Dec. 11, 1920. Serial No. 430,060. Term of patent 14 years.



The ornamental design for a tumbler holder, as shown.

57,990. TALKING-MACHINE CABINET. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed June 14, 1920. Serial No. 389,013. Term of patent 3½ years.



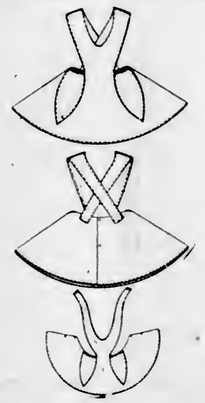
The ornamental design for a talking-machine cabinet, as shown.

57,991. BRACELET. LEONARD PALLISER, New York, N. Y., assignor to himself and Frank Teltsch, New York, N. Y. Filed Dec. 20, 1920. Serial No. 432,112. Term of patent 3½ years.



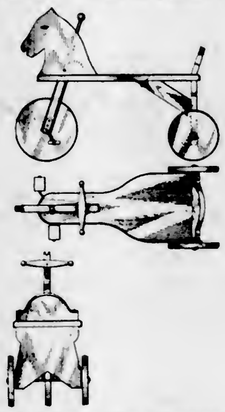
The new and ornamental design for a bracelet substantially as shown.

57,992. APRON. GENEVIEVE PFEFFER, San Jose, Calif. Filed Feb. 28, 1920. Serial No. 362,124. Term of patent 14 years.



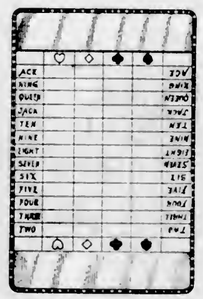
The ornamental design for an apron, substantially as shown.

57,993. POLYCYCLE. STANISLAW SALA and KAROL DABROWSKI, Hamtramck, Mich. Filed Nov. 18, 1920. Serial No. 425,002. Term of patent 7 years.



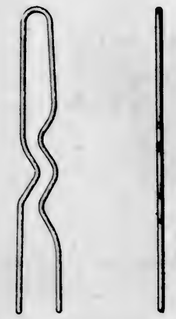
The ornamental design for a polycycle, as shown.

57,994. PLAYING-CARD. RALPH E. SAMUEL, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,495. Term of patent 7 years.



The ornamental design for a playing card, as shown.

57,995. HAIRPIN. TOM W. SAUL, Seattle, Wash. Filed Oct. 4, 1920. Serial No. 414,681. Term of patent 14 years.



The ornamental design for a hairpin, as shown.

57,996. CREASE-RETAINING DEVICE FOR HATS. FRANK J. SCHALOW, East New York, N. Y. Filed Feb. 24, 1920. Serial No. 360,999. Term of patent 14 years.



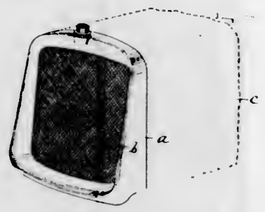
The ornamental design for a crease retaining device for hats, as shown.

57,997. GLASS VESSEL. MAURICE A. SMITH, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1920. Serial No. 425,581. Term of patent 7 years.



The ornamental design for a glass vessel, as shown.

57,998. RADIATOR. RODOLPHE STAHL, Detroit, Mich. Filed Feb. 7, 1918. Serial No. 215,917. Term of patent 14 years.



The ornamental design for a radiator as shown.

57,999. FRAME FOR A BORING-MACHINE. EDGAR B. TEEPLE, Minneapolis, Minn. Filed Nov. 26, 1920. Serial No. 426,656. Term of patent 7 years.



The ornamental design for a frame for a boring machine, as shown.

58,000. SURFACE ORNAMENTATION FOR A PEN, PENCIL, PENKNIFE, OR SIMILAR ARTICLE. EDWARD TODD, Jr., New York, N. Y. Filed Dec. 11, 1920. Serial No. 430,055. Term of patent 7 years.



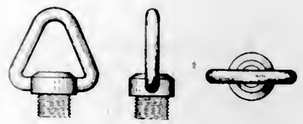
The ornamental design for surface ornamentation for a pen, pencil, penknife, or similar article, as shown.

58,001. SURFACE ORNAMENTATION FOR A PEN, PENCIL, PENKNIFE, OR SIMILAR ARTICLE. EDWARD TODD, Jr., New York, N. Y. Filed Dec. 11, 1920. Serial No. 430,056. Term of patent 7 years.



The ornamental design for surface ornamentation for a pen, pencil, penknife, or similar article, as shown.

58,002. CHAIN-LOOP. JOHN C. VIRDEN, Cleveland, Ohio. Filed Aug. 17, 1920. Serial No. 404,284. Term of patent 7 years.



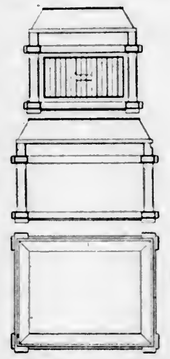
The ornamental design for a chain loop substantially as shown.

58,003. BOWL-HOOK FOR LIGHTING-FIXTURES. LESTER R. WELLMAN, Chicago, Ill. Filed Oct. 5, 1920. Serial No. 414,874. Term of patent 7 years.



The ornamental design for a bowl hook for lighting fixtures, as shown.

58,004. TALKING-MACHINE BOX. CARL J. WILLENBORG, Jr., Hoboken, N. J. Filed Feb. 23, 1921. Serial No. 447,320. Term of patent 14 years.



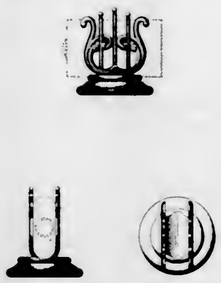
The ornamental design for a talking machine box, as shown.

58,005. AUTOMOBILE-BUMPER. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 15, 1920. Serial No. 424,300. Term of patent 14 years.



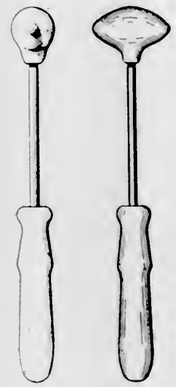
The ornamental design for an automobile bumper as shown.

58,006. PORTABLE ELECTRIC-LIGHT SUPPORT. CHARLES T. WITTSTEIN, Newark, N. J. Filed Sept. 20, 1920. Serial No. 411,680. Term of patent 7 years.



The ornamental design for a portable electric light support, as shown.

58,007. SHAPING AND IRONING TOOL. FREDERICK E. KERN, St. Louis, Mo. Filed June 21, 1920. Serial No. 390,654. Term of patent 14 years.



The ornamental design for a shaping and ironing tool, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 24, 1921.

[PUBLISHED JUNE 7, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 102,005. (CLASS 32. FURNITURE AND UPHOLSTERY.) GREENPOINT METALLIC BED COMPANY, Brooklyn, N. Y. Filed Mar. 9, 1917.

TRIP-LOCK

Applicants make no claim to the exclusive use of the mark "Trip-Lock" except in the form shown in the drawing forming part of this application.

Particular description of goods.—Beds and Cribs.

Claims use since about Apr. 8, 1915.

Ser. No. 115,425. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ARTHUR J. LA FAY, Toronto, Ontario, Canada. Filed Jan. 25, 1919.

Thermos

No claim being made to the words "Heating Systems" apart from the trademark shown in the drawing.

Particular description of goods.—Furnaces, Heaters, and Boilers Equiped with Fuel-Economizers.

Claims use since Nov. 30, 1918.

Ser. No. 116,849. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE PARKER TIRE & RUBBER COMPANY, Indianapolis, Ind. Filed Mar. 24, 1919.

PPP

Particular description of goods.—Pneumatic Rubber Tires.

Claims use since Jan. 15, 1919.

Ser. No. 116,995. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM S. PICKERING, Lynn, Mass. Filed Mar. 28, 1919.

MOSSEA

Particular description of goods.—General Tonic.

Claims use since Sept. 31, 1918.

Ser. No. 117,221. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Apr. 7, 1919.

JOLLY JACKS

Particular description of goods.—Candy.

Claims use since June 1, 1918.

Ser. No. 119,784. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WELLMAN-SEAVER-MORGAN COMPANY, Cleveland, Ohio. Filed June 19, 1919.

WSM

Particular description of goods.—Hydraulic Turbines; Hoisting, Conveying, Coal and Ore Handling Machinery Consisting of Boat-Loaders, Boat-Unloaders, Traveling Bridges, Grab and Excavating Buckets, Car-Dumpers, Car-Haulages, Cranes of Various Kinds, Hoisting Plants for Mines, Mine-Cages and Mine-Skips, Revolving Car-Tipples, Safety Detaching-Hooks for Mine Cages and Mine Skips, Dock and Warehouse Cranes (Not Included in Cranes Specified Above) and Travelers; Furnace-Charging Machines, Charging-Boxes for Furnace-Charging Machines, Manipulators for Handling Forging-Blooms and the Like; Coke-Oven Machinery Consisting of Coal-Levelers, Door-Extractors, Coke-Quenchers, Coke-Pushers, Coke-Loaders; Rubber Machinery Consisting of Tire-Applying Presses, Rubber Calenders, Mixing and Grinding Mills, Tubing-Machines, Vulcanizing-Presses, Molds, and Cores.

Claims use since about Apr. 1, 1919.

Ser. No. 120,111. (CLASS 39. CLOTHING.) WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England. Filed June 30, 1919.

CLYDELLA

Particular description of goods.—Ladies' Blouses, Night-Dresses, Knickers, Petticoats, Pajamas; Men's Pajamas, Negligée Shirts, Woven Combinations, Vests, and Pants; Children's Garments—Namely, Coats, Frocks, Suits, Bonnets, and Knit and Cloth Bodies.
Claims use since Sept. 5, 1910.

Ser. No. 121,088. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WALDES & Co., Prague, Bohemia. Filed July 29, 1919.

Liberty

Particular description of goods.—Cigarette-Paper Cut to Size and Ready for Use, Portable Cigarette-Makers, and Cigarette-Tubes Made of Paper.
Claims use since July, 1911.

Ser. No. 121,247. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LADY CHRISTABEL COMPANY, Norfolk, Va. Filed Aug. 4, 1919.

LADY CHRISTABEL

Particular description of goods.—A Talcum Powder, Facial Cream, Face-Powder, Talc, and a Tissue-Builder, (Massage-Cream).
Claims use since July 1, 1919.

Ser. No. 121,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY GEO. BITTERS, Chicago, Ill. Filed Aug. 25, 1919.



Particular description of goods.—Pharmaceutical and Toilet Preparations, Particularly Preparations in the Nature of Soothing and Healing Ointments.
Claims use since about Oct. 1, 1917.

Ser. No. 122,542. (CLASS 39. CLOTHING.) LIBERTY & CO. LIMITED, London, England. Filed Sept. 10, 1919.

LIBERTY

Particular description of goods.—Indoor and Outdoor Dresses, Fancy Costumes, Blouses, Coats, Cloaks, Smocks, Overalls, Ladies' and Children's Hats, Bonnets, and Caps, Scarfs, and Ties, All Being Articles of Women's and Children's Clothing.
Claims use since 1879.

Ser. No. 123,046. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) UNION TOOL COMPANY, Orange, Mass. Filed Sept. 23, 1919.

UNION

Particular description of goods.—Machinists' Small Tools—Namely, Center-Gages, Thickness-Gages, Thread-Gages, Radius-Gages, Bevel-Gages, Depth-Gages, Height-Gages, Surface-Gages, Wire-Gages, Steel Measuring-Rules, Key-Seat Rules, Straight-Edges, Machinists' and Woodworkers' Squares, Bevel-Protractors, Caliper-Rules and Caliper-Squares, Vernier-Calipers, Calipers, Micrometers, Test-Indicators, Levels, Trammel-Points, Dividers, and Speed-Indicators.
Claims use since 1908.

Ser. No. 125,022. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RANNEY-DAVIS MERCANTILE COMPANY, Arkansas City, Kans. Filed Nov. 17, 1919.



No claim is made to the use of the words "Santa Fe Brand" apart from the mark shown on the drawing.
Particular description of goods.—Canned Fruits and Vegetables, Pork and Beans, Corn, Hominy; Fruit Jellies, Preserves, and Butters; Canned Fish, Oysters, and Soups; Packaged Oats, Wheat, and Rice; Salted Peanuts, Peanut-Butter, Macaroni, Spaghetti, Vermicelli, Noodles, Canned Milk, Mince-Meat, Cane-Sugar Syrup, Sorghum, Candies, Vanilla and Lemon Flavoring Extracts, Spices, Vinegar, Horse-Radish, Pepper, Mustard, Pickles, Tea, and Coffee.
Claims use since Apr. 1, 1916.

Ser. No. 125,056. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDMOND LYSLE, New York, N. Y. Filed Nov. 18, 1919.



Particular description of goods.—Motion-Pictures.
Claims use since Nov. 10, 1919.

Ser. No. 125,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. J. MCIVER, Van Buren, Me. Filed Nov. 28, 1919.



Silver-Black Fox

Particular description of goods.—Fresh Potatoes.
Claims use since Jan. 1, 1915.

Ser. No. 126,055. (CLASS 12. CONSTRUCTION MATERIALS.) JOSEPH P. O'CONNELL, Boston, Mass. Filed Dec. 15, 1919.



Particular description of goods.—Waterproofing Compound for Roofing and Construction Use.
Claims use since Aug. 1, 1919.

Ser. No. 126,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. JOHNSTON MOORE, Montgomery, Ala. Filed Dec. 22, 1919.



Particular description of goods.—Blood-Tonic, Croup Salve, Cough-Syrup, Cold-Tablets, Dandruff Remedy, Almond-Cream, Eye-Water, Face-Powder, Liquid Face-Powder, Antiseptic Spray, Hair-Pomade, Hair-Tonic, Kidney-Pills, Nerve and Bone Liniments, Antiseptic Shaving-Lotion for Use After Shaving, Gargle, a Preparation for Kidney Treatment, Castor-Oil, Toothache-Drops, Food-Solvent for Dyspepsia Indigestion, Nose and Throat Oil, Alterative and Rheumatism Remedy, Chill-Tonic, Liquid Shampoo, and Stomach and Liver Granulettes.
Claims use since Sept. 1, 1919.

Ser. No. 126,950. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) D. WEBSTER ANDERS, Boston, Mass., assignor to Herman Freed, Boston, Mass. Filed Jan. 9, 1920.

FREEDOL

Particular description of goods.—A Preparation in Liquid Form for a Treatment of Skin Diseases.
Claims use since August, 1917.

Ser. No. 127,025. (CLASS 39. CLOTHING.) AMERICAN FASHION CLOTHES, New York, N. Y. Filed Jan. 12, 1920.



Being lined for blue, no claim being made to the words "Manufacturers of Fine Tailored Young Men's and Men's Clothes."
Particular description of goods.—Men's Clothing—Namely, Suits and Overcoats.
Claims use since on or about Jan. 1, 1919.

Ser. No. 128,090. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMAN B. GOLDMAN, Baltimore, Md. Filed Feb. 7, 1920.



Particular description of goods.—A Preparation for the Treatment of Hay-Fever, Asthma, Catarrh, Rheumatism, Lame Back, Stiff Joints, Sprains, Lumbago, Swellings, Blood-Purifier, Constipation, Indigestion, Liver and Kidney Trouble, Corns, Callouses, and Bunions.
Claims use since 1912.

Ser. No. 128,537. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN D. WATKINS, Memphis, Tenn. Filed Feb. 17, 1920.

SANMEL

Consisting of the word "Sanmel."
Particular description of goods.—A Between-Meal Cake for Children.
Claims use since Jan. 26, 1920.

Ser. No. 128,983. (CLASS 39. CLOTHING.) STERLING SHOES CORPORATION, Buffalo, N. Y. Filed Feb. 27, 1920.

Sterling

Particular description of goods.—Boots and Shoes of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since Sept. 3, 1917.

Ser. No. 129,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed Mar. 2, 1920.

BUNNY
BOY BUDS

Particular description of goods.—Wheat Cereal, Sugar-Coated.
Claims use since Oct. 23, 1915.

Ser. No. 129,461. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARTI Y GUTIÉRREZ, Seville, Spain. Filed Mar. 9, 1920.

IDOR

Particular description of goods.—Olive-Oil.
Claims use since January, 1919.

Ser. No. 129,534. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSTON BLACKING COMPANY, Portland, Me., and East Cambridge, Mass. Filed Mar. 11, 1920.

Lustoria

Particular description of goods.—A Straw-Hat Dye.
Claims use since Mar. 1, 1905.

Ser. No. 129,535. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOSTON BLACKING COMPANY, Portland, Me., and East Cambridge, Mass. Filed Mar. 11, 1920.

BonTon

Particular description of goods.—A Straw-Hat Dye.
Claims use since Feb. 15, 1900.

Ser. No. 129,989. (CLASS 12. CONSTRUCTION MATERIALS.) SOUTH BEND ASPHALT ROOFING CO., South Bend, Ind. Filed Mar. 20, 1920.

Buckskin

Particular description of goods.—Prepared Sheet-Roofing.
Claims use since on or about Nov. 3, 1919.

Ser. No. 130,461. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WAYNE OIL TANK & PUMP COMPANY, Fort Wayne, Ind. Filed Mar. 31, 1920.

Wayne

Particular description of goods.—Oil and Gasolene Pumps, Air and Water Stands for Serving Automobiles, Oil Filtering and Purifying Systems, Oil and Gasolene Pump and Tank Outfits, Dry-Cleaning Outfits for Cleaning Fabrics, Leather Goods, Furs, and the Like.
Claims use since 1891.

Ser. No. 130,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. ENGELHARD & SONS COMPANY, Louisville, Ky. Filed Apr. 5, 1920.

THE NAME ENGELHARD MEANS GOOD FOOD

No claim being made to the words "The Name Means Good Food" apart from the mark shown.
Particular description of goods.—Food and Food Ingredients—Namely, Coffee, Teas, Spices, Canned Fruits, Vegetables, Pork and Beans, Fish, Rolled Oats, Macaroni, Spaghetti, Noodles.
Claims use since Mar. 1, 1902.

Ser. No. 131,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. WILHJELM KJAER, Copenhagen, Denmark. Filed Apr. 22, 1920.

MIKROL

Consists of the word "Mikrol."
Particular description of goods.—Disinfectants.
Claims use since the commencement of 1920.

Ser. No. 131,633. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO., INC., New York, N. Y. Filed Apr. 26, 1920.

Lochly

Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House-Coats, Waistcoats, Bath-Robes, Smoking-Robes, Smoking-Jackets, Drawers, Pajamas, Dress-Shirts, Undershirts, Night-Shirts, Union-Suits, Bathing-Suits, Swimming-Suits, Dressing-Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress-Suits, Golf-Suits, Hunting-Suits, Riding-Suits, Tuxedo-Suits, Walking-Suits, Sack-Suits, Trousers, Hats, and Caps Made Out of Textile Material, and Gloves, Sweaters, Mufflers, Bathing-Suits, Swimming-Suits, Drawers, Undershirts, Hats, and Caps Made Out of Knitted Material, and Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking-Suits, Sport-Suits, Golf-Suits, Riding-Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath-Robes, Shirtwaists, Bathing-Suits, Dressing-Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport-Coats, Hats, Caps, and Coats Made Out of Textile Material, and Dresses, Corsets, Tailored Suits, Walking-Suits, Sport-Suits, Golf-Suits, Riding-Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath-Robes, Shirtwaists, Bathing-Suits, Dressing-Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material, and Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Composition of Similar Materials.
Claims use since Feb. 1, 1920.

Ser. No. 131,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DUSCO CO., Buffalo, N. Y. Filed May 3, 1920.

Kamfo-rub

The exclusive use of the words "Camphor Rub" is disclaimed.
Particular description of goods.—Salves Containing Camphor Ingredients.
Claims use since Apr. 23, 1920.

Ser. No. 132,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio. Filed May 11, 1920.

KING-TAIFA



Particular description of goods.—A Dairy, Stock, Cattle, Farm-Animal, and Poultry Food.
Claims use since Sept. 6, 1919.

Ser. No. 132,297. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CANDI-LAX MFG. CO., Cincinnati, Ohio. Filed May 11, 1920.

Helm's

The name being a facsimile of the surname in the handwriting of the originator of the article upon which the mark is used.
Particular description of goods.—Fruit Laxative.
Claims use since Dec. 31, 1919.

Ser. No. 132,409. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT G. JORDAN, Jr., Macon, Ga. Filed May 13, 1920.

Jrancuckles
BEST ON EARTH

The words "Best on Earth" are disclaimed apart from the other features of the mark.
Particular description of goods.—Peanut-Sandwiches Having a Layer of Ground Peanuts or Peanut-Butter Between Crackers or the Like.
Claims use since on or about July 1, 1919.

Ser. No. 132,512. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. B. CARR BISCUIT CO., Wilkes Barre, Pa. Filed May 17, 1920.

OWL



Particular description of goods.—Soda Biscuit and Crackers.
Claims use since 1900.

Ser. No. 132,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTON W. VAN BYSTERVELD, Grand Rapids, Mich. Filed May 18, 1920.

Vantona

Particular description of goods.—A Pharmaceutical Preparation Acting as a General Tonic for the Digestive Organs and the Urinary Organs.
Claims use since Apr. 1, 1920.

Ser. No. 133,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOLA E. GRAYSON, Chicago, Ill. Filed May 27, 1920.

GLOSS-O

Particular description of goods.—A Hair-Grower.
Claims use since 1906.

Ser. No. 133,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAE CAESAR PORTER, Dallas, Tex. Filed June 8, 1920.



No claim being made to the word "Seal Oil" appearing on the drawing apart from the mark as shown.
Particular description of goods.—A Hair-Producer.
Claims use since Apr. 12, 1920.

Ser. No. 133,808. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed June 16, 1920.



The trade-mark shown in the drawing comprises a ground of red surrounded by a relatively narrow margin of white. At the bottom of the red ground is the word "Revere," having its letters arranged in the arc of a circle. Disposed centrally of the red ground is a numeral designating the grade or type of ball. No claim is made for the grade-numeral apart from the mark shown in the drawing.
Particular description of goods.—Golf-balls.
Claims use since Apr. 1, 1920.

Ser. No. 134,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OWL DRUG COMPANY, San Francisco, Calif. Filed June 22, 1920.



Particular description of goods.—Emulsion Cod-Liver Oil with Hypophosphites, Borated Antiseptic Solution, Solution Iron and Manganese Peptonate; Solution Rubilyptus, Alkaline; Elixir Buchu, Juniper, and Uva Ursi Compound; Elixir Colchicum and Salicylates, Lithiated; Elixir Glycerophosphates Compound; Elixir Iron Phosphate, Quinin, and Strychnin; Tonic Hypophosphites Syrup, Syrup Trifolium Compound, Aromatic Cascara Laxative, Wine of Beef and Iron.
Claims use since Mar. 1, 1920.

Ser. No. 134,103. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM E. BENIKE, Milwaukee, Wis. Filed June 24, 1920.



ECZEMATOID

No claim being made for the word "Eczematoid" apart from the mark shown by the drawing.
Particular description of goods.—A Liquid Medicinal Preparation for the Treatment of Eczema.
Claims use since May 10, 1920.

Ser. No. 134,154. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STÉ. AN. POUR L'EXPLOITATION DE JOUETS S. A. J., Paris, France. Filed June 24, 1920.

PYFYLY

Particular description of goods.—Toys Comprising Construction Toys, Toy Railroads and Their Accessories, and Instruments for Drawing in the Sand.
Claims use since Feb. 2, 1916.

Ser. No. 134,167. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WEST BEND EQUIPMENT CO., West Bend, Wis. Filed June 24, 1920.



No claim being made to the words "Spring Bearing Trucks" or to the picture of a truck apart from the mark as shown.
Particular description of goods.—Platform-Trucks.
Claims use since about Feb. 1, 1920.

Ser. No. 134,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. JOSEPH HAAS, New York, N. Y. Filed June 28, 1920.



Particular description of goods.—Face-Lotions and Hair-Tonics.
Claims use since May, 1920.

Ser. No. 134,394. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE SPRECKELS "SAVAGE" TIRE COMPANY, San Diego, Calif. Filed June 29, 1920.



Particular description of goods.—Rubber and Rubber and Composition Tires and Tubes.
Claims use since 1911.

Ser. No. 134,421. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN NICHOLAS JENTZ, Jersey City, N. Y. Filed June 30, 1920.

LaKreem

Particular description of goods.—Package-Coffee and Package-Rice.
Claims use since May 22, 1920.

Ser. No. 134,450. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN YATES & CO., LTD., Birmingham, England. Filed June 30, 1920.



TRADE MARK.

No claim is made to the words "Trade Mark" apart from the mark as shown by the drawing.
Particular description of goods.—Spades, Shovels, Hoes of All Descriptions, Wedges, and Ship-Scrapers.
Claims use since Feb. 5, 1876.

Ser. No. 134,617. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed July 6, 1920.

Williams'

Particular description of goods.—Cold-Cream, Liquid Hair-Dressing, Cosmetique for Use on the Hair and Beard, Face-Powder, Talc Powder, and Toilet Water.
Claims use since about the year 1899 as to talc powder; since about the month of October, 1901, as to liquid hair-dressings; since about the month of November, 1902, as to cosmetique; since about the month of January, 1903, as to toilet water; since about the month of December, 1911, as to cold-cream, and since about the month of March, 1915, as to face-powder.

Ser. No. 134,692. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM S. BURKHART, Cincinnati, Ohio. Filed July 8, 1920. Under ten-year proviso.



Particular description of goods.—A Vegetable Blood-Purifier.
Claims use since March, 1892.

Ser. No. 134,809. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CENTRAL MANUFACTURING COMPANY, St. Louis, Mo. Filed July 12, 1920.



Particular description of goods.—Laundry-Washing Machines and Wringers.
Claims use since about May 15, 1920.

Ser. No. 135,082. (CLASS 32. FURNITURE AND UPHOLSTERY.) SLEEP-OR-SWING COMPANY, Topeka, Kans. Filed July 16, 1920.



Particular description of goods.—Combination Porch-Swing and Hammock-Couch.
Claims use since August, 1919.

Ser. No. 135,163. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIMOTHY J. O'LEARY, Los Angeles, Calif. Filed July 19, 1920.

YANKEE DOUGHNUTS
Take 'Em Home

The words "Doughnuts, Take 'Em Home" are disclaimed, and only the word "Yankee" is sought to be registered in connection with the "Yankee Doughnuts, Take 'Em Home."

Particular description of goods.—Doughnuts.

Claims use since Apr. 5, 1919.

Ser. No. 135,256. (CLASS 39. CLOTHING.) DAVID ADES, Lexington, Ky. Filed July 22, 1920.



Particular description of goods.—Hosiery, Men's Overalls, Dress and Work Shirts, and Pants, Knit Underwear for Men, Women, and Children, and Knit Scarfs.

Claims use since Dec. 1, 1908.

Ser. No. 135,260. (CLASS 31. FILTERS AND REFRIGERATORS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed July 22, 1920.



The exclusive right to the use of the words "Seneca" and "Standard" is disclaimed apart from the mark as shown.

Particular description of goods.—Tripoli Filter-Stones, Pressure-Filters, Siphon-Filters, and Disk Filters.

Claims use since the month of May, 1916.

Ser. No. 135,261. (CLASS 31. FILTERS AND REFRIGERATORS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed July 22, 1920.



The exclusive right to the use of the words "Filter Stones," "Seneca," "Standard," and "Tripoli Flour" is disclaimed apart from the mark as shown.

Particular description of goods.—Tripoli Filter-Stones, Pressure-Filters, Siphon-Filters, and Disk Filters.

Claims use since the month of May, 1916.

Ser. No. 135,396. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio. Filed July 26, 1920.

PARROT BRAND



The word "Brand" appearing in the mark is disclaimed apart from such mark as shown by the drawing.

Particular description of goods.—Farm, Garden, and other Hand-Tools—Namely, Forks, Hooks, Rakes, Hoes, Turf-Edgers; Thistle, Dock, and other Weed Cutters; Garden-Trowels, Weeders, Spades, and Shovels.

Claims use since May 1, 1920.

Ser. No. 135,551. (CLASS 39. CLOTHING.) COMMERCIAL TRADING COMPANY, Boston, Mass. Filed July 29, 1920.



BLUE CREST

Particular description of goods.—Negligée, Work, and Dress Shirts, Night-Shirts, Pajamas, Men's and Children's Underwear of Both Knitted and Textile Fabrics, Including Athletic Suits, Union-Suits, and Two-Piece Suits.

Claims use since 1913.

Ser. No. 135,595. (CLASS 39. CLOTHING.) COMMERCIAL TRADING COMPANY, Boston, Mass. Filed July 30, 1920.



GOLD CREST

Particular description of goods.—Flannel Shirts, Work-Shirts, Negligée Shirts, Night-Shirts, Pajamas, Men's and Children's Underwear Made of Both Knitted and Textile Fabric and Including Athletic Underwear, Union-Suits, and Two-Piece Suits.

Claims use since 1913.

Ser. No. 135,603. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPENCER KELLOGG & SONS INC., Buffalo, N. Y. Filed July 30, 1920.



KELLOGG'S TASTELESS CASTOR OIL

No claim is made herein to the words "The Test Tells" and "Kellogg's Tasteless Castor Oil" apart from the mark shown on the drawing.

Particular description of goods.—Castor-Oil.

Claims use since Mar. 1, 1920.

Ser. No. 135,609. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHARLES LANCASTER MARSHALL, London, England. Filed July 30, 1920.

ONAZOTE.

Particular description of goods.—Expanded Vulcanized Rubber for Tires, Tubes, Shock-Absorbers, and other Purposes.

Claims use since Apr. 15, 1920.

Ser. No. 135,640. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE FIBERLOID CORPORATION, Indian Orchard, Mass. Filed July 31, 1920. Under ten-year proviso.

FIBERLOID

Particular description of goods.—Hair-Brushes, Clothes-Brushes, Toothbrushes, and Nail-Brushes.

Claims use since Dec. 31, 1894.

Ser. No. 135,862. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILHELM RATH, Niederteufen, Switzerland. Filed Aug. 6, 1920.



No claim is made to the words "Rath's Lungen u. Tuberkel Heiler" and "Schutz Marke" apart from the mark as shown on the drawing.

Particular description of goods.—Medicine Indicated for Lung Troubles, Tuberculosis, Coughs, Asthma, and Ailments of the Bronchial Organs.

Claims use since Jan. 9, 1905.

Ser. No. 136,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL ZECHNOWITZ, New York, N. Y. Filed Aug. 24, 1920.



Particular description of goods.—Tea.

Claims use since July 1, 1919.

Ser. No. 136,822. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ZINSMASTER BAKING COMPANY, St. Paul, Minn. Filed Sept. 3, 1920.



Particular description of goods.—Bread.

Claims use since Aug. 4, 1920.

Ser. No. 136,840. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. HAUSMAN & COMPANY, New York, N. Y. Filed Sept. 4, 1920.



Particular description of goods.—Tickings, Cotton Suitings, Cotton Muslins, Cotton Serges, Cotton Twills, Cotton Colored Cambrics, and Cotton Prints in the Piece, and Cotton Blankets.

Claims use since July 1, 1920.

Ser. No. 136,844. (CLASS 39. CLOTHING.) MORSE & BURT CO. INC., Brooklyn, N. Y. Filed Sept. 4, 1920.



No claim being made to the exclusive use of the mere representation of a shoe.

Particular description of goods.—Shoes of Leather, Fabric, and Combinations.

Claims use since Aug. 31, 1920.

Ser. No. 136,928. (CLASS 39. CLOTHING.) COMMERCIAL TRADING COMPANY, Boston, Mass. Filed Sept. 8, 1920.



Particular description of goods.—Dress-Shirts, Negligée Shirts, Work-Shirts, Night-Shirts, Pajamas, Men's and Children's Underwear Made of Knitted and Textile Fabrics and Including Athletic Suits, Union-Suits, and Two-Piece Garments.

Claims use since 1913.

Ser. No. 136,929. (CLASS 39. CLOTHING.) COMMERCIAL TRADING COMPANY, Boston, Mass. Filed Sept. 8, 1920.



Particular description of goods.—Work-Shirts, Negligée Shirts, Dress-Shirts, Night-Shirts, Pajamas, and Men's and Children's Underwear Made of Both Knitted and Textile Fabrics, and Including Athletic Underwear, Union-Suits, and Two-Piece Garments.

Claims use since 1913.

Ser. No. 136,976. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GILLESPIE AIRCRAFT CORPORATION, Cambridge, Mass. Filed Sept. 9, 1920.



Particular description of goods.—Aircraft, Airplanes, and Dirigibles.

Claims use since about June 25, 1919.

Ser. No. 137,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN BERMAN, North Judson, Ind. Filed Sept. 11, 1920.



In the drawing the oblique lines appearing on the central field are not employed to denote color.

Particular description of goods.—Sugar Substitute.

Claims use since Apr. 1, 1920.

Ser. No. 137,166. (CLASS 7. CORDAGE.) COLUMBIAN ROPE COMPANY, Auburn, N. Y. Filed Sept. 14, 1920.

EMPIRE

Particular description of goods.—Rope, Twine, and Cordage of Vegetable Fiber.

Claims use since Sept. 17, 1910.

Ser. No. 137,173. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGARET JANE GRIFFITH, Wallasey, England. Filed Sept. 14, 1920.

"GRIFOL"

Particular description of goods.—Ointments, Salves, Liniments, and Lotions.

Claims use since June 6, 1919

Ser. No. 137,246. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID THALL, Manchester, N. H. Filed Sept. 15, 1920.



No claim being made herein to the words "Corn Salve" except in association with the other features illustrated in the drawing.

Particular description of goods.—Corn-Salve.

Claims use since Aug. 9, 1920.

Ser. No. 137,417. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Sept. 21, 1920.

Lykadreme

Particular description of goods.—Ribbons.

Claims use since Sept. 11, 1920.

Ser. No. 137,418. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Sept. 21, 1920.

Itzadreme

Particular description of goods.—Ribbons.

Claims use since Sept. 11, 1920.

Ser. No. 137,502. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STRANTZA COMPANY, New York, N. Y. Filed Sept. 22, 1920.



No claim being made to the word "Fero."

Particular description of goods.—A General Tonic.

Claims use since Aug. 1, 1920.

Ser. No. 137,540. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEYTON-PALMER CO., Danville, Ill. Filed Sept. 29, 1920.

TEA TABLE

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Condiments—Namely, Pickles, Olives, Mustard, Catsup, Chilli Sauce, and Salad-Dressing—and Coffee.

Claims use since Sept. 13, 1920.

Ser. No. 137,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GARCIA & MAGGINI CO., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif. Filed Sept. 24, 1920.

PARADISE

Particular description of goods.—Fresh and Dried Fruits—Namely, Peaches, Raisins, Prunes, Apricots, Pears, Figs, Nectarines, Apples.

Claims use since 1910.

Ser. No. 137,578. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GARCIA & MAGGINI CO., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif. Filed Sept. 24, 1920.

HONEY

Particular description of goods.—Fresh and Dried Fruits—Namely, Fresh, Dried, and Evaporated Apples.

Claims use since 1907.

Ser. No. 137,636. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS. STOEHRER & PRATT DODGEM CORPORATION, Lawrence, Mass. Filed Sept. 25, 1920.

DODG'EM

Particular description of goods.—Amusement Cars or Vehicles of the Occupant-Controlled Type and Operated on a Plane Field or Floor.

Claims use since Sept. 17, 1920.

Ser. No. 137,674. (CLASS 39. CLOTHING.) MARY PERFECT, San Diego, Calif. Filed Sept. 27, 1920.



Particular description of goods.—Children's One and Two Piece Dresses, Rompers, Hats, and Textile-Fabric Underwear.

Claims use since Jan. 1, 1918.

Ser. No. 137,940. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWLEY & HOOPS, New York, N. Y. Filed Oct. 5, 1920.

UNION

Particular description of goods.—Candy.
Claims use since 1880.

Ser. No. 138,262. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ARTHUR P. O'BRIEN, New York, N. Y. Filed Oct. 13, 1920.

LE 75

Particular description of goods.—Cigarette-Papers and Cigarette-Paper Packages.
Claims use since Oct. 7, 1920.

Ser. No. 138,299. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ONE THOUSAND ONE MADISON AVENUE FRENCH PASTRY & RESTAURANT CO. INCORPORATED, New York, N. Y. Filed Oct. 14, 1920.



Particular description of goods.—All Kinds of Pastries, Cakes, and Cookies.
Claims use since Aug. 1, 1920.

Ser. No. 138,317. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. M. F. GROVES SON & CO., Philadelphia, Pa. Filed Oct. 15, 1920. Under ten-year proviso.



Particular description of goods.—A Medicinal Preparation for the Treatment of Infantile Troubles—viz., Colic and Teething.
Claims use since 1849.

Ser. No. 138,406. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHLAND MILLING COMPANY, Belleville, Ill. Filed Oct. 16, 1920.

PERFECT DAY

Particular description of goods.—Wheat-Flour.
Claims use since July, 1920.

Ser. No. 138,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LYMAN H. ROGERS, Seattle, Wash. Filed Oct. 19, 1920.

NOZEMA

Particular description of goods.—A Certain Named Remedy for Eczema.
Claims use since July 1, 1920.

Ser. No. 138,569. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HALL & RUCKEL, New York, N. Y. Filed Oct. 20, 1920. Under ten-year proviso.



The Madame Zadoc Porter

Particular description of goods.—A Preparation for Use in the Treatment of Simple Laryngeal, Bronchial, or Pulmonary Affections, Coughs and Colds, and Hoarseness Due to Colds.
Claims use from about 1890.

Ser. No. 138,571. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HALL & RUCKEL, New York, N. Y. Filed Oct. 20, 1920. Under ten-year proviso.



THE ZADOC PORTER

Particular description of goods.—A Preparation for Use in the Treatment of Stomach Troubles.
Claims use from about 1890.

Ser. No. 138,592. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RIVEROLL & GUZMAN COMPANY, San Antonio, Tex. Filed Oct. 20, 1920.



Particular description of goods.—A Preparation for the Treatment of Tired Feet, Rheumatism, and Nervous Pains.
Claims use since Apr. 1, 1920.

Ser. No. 138,622. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMANDUS W. ALMQUIST, Orange, N. J. Filed Oct. 21, 1920.



No claim is made to the words "Science," "Chemistry," and "Fuel-Ol" apart from the mark as shown.
Particular description of goods.—A Liquid for Intensifying and Increasing the Efficiency of Petroleum Fuels.
Claims use since Oct. 15, 1920.

Ser. No. 138,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Oct. 21, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Sept. 20, 1920.

Ser. No. 138,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HYMAN & OPPENHEIM, New York, N. Y. Filed Oct. 21, 1920.



No claim is made to the exclusive use of the words "Dye Remover" apart from the mark shown. The drawing is lined to indicate green.
Particular description of goods.—Commodity for Removing Dye from Hair.
Claims use since about Apr. 10, 1920.

Ser. No. 138,665. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED W. CLEMENTS, Rochester, N. Y. Filed Oct. 22, 1920.



No claim being made to the words "Tooth Powder" apart from the mark as shown.
Particular description of goods.—Tooth-Powder.
Claims use since May, 1914.

Ser. No. 138,819. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HAROLD M. MCARTHUR & CO., LIMITED, Liverpool, England. Filed Oct. 26, 1920.

MAXYNCROM

Particular description of goods.—Bark from Which Tanning Substances or Extracts are Made.
Claims use since the 9th day of January, 1919.

Ser. No. 138,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.

Lorigan

Particular description of goods.—Perfumes, Toilet Waters, Face-Powders, Sachet-Powders, Lotion for Skin and Hair, and Brilliantine.
Claims use since 1909.

Ser. No. 138,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.



Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine, Including Perfumes for Face-Powders, Sachet-Powders, Lotions, Soap, and Dentifrices.
Claims use since 1905.

Ser. No. 138,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.

LE VERTIGE

Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine, Including Perfumes for Face-Powders, Sachet-Powders, Lotions, Soap, and Dentifrices.
Claims use since 1906.

Ser. No. 138,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.



Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine.
Claims use since 1912.

Ser. No. 138,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.

L'EFFLEURT

Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine, Including Perfumes for Face-Powders, Sachet-Powders, Lotions, Soap, and Dentifrices.
Claims use since 1909.

Ser. No. 138,843. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.

LA VIOLETTE POURPRE

No claim being made to the words "La Violette" apart from the mark shown in the drawing.
Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine, Including Perfumes for Face-Powders, Sachet-Powders, Lotions, Soap, and Dentifrices.
Claims use since 1906.

Ser. No. 138,845. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.

AMBRE ANTIQUE

Particular description of goods.—Perfumes, Toilet Waters, Face-Powders, Sachet-Powders, Lotions for the Skin and Hair, and Brilliantine.
Claims use since 1913.

Ser. No. 138,846. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Oct. 27, 1920.



Particular description of goods.—Perfumes, Toilet Waters, Face-Powders, Sachet-Powders, Lotions for the Skin and Hair, and Brilliantine.
Claims use since 1912.

Ser. No. 138,859. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPHINE CHOCOLATES, LIMITED, London, England. Filed Oct. 27, 1920.



The word "Chocolat" is hereby disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Chocolates.
Claims use since Aug. 29, 1919.

Ser. No. 138,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCRANTON DISTRIBUTING AND MANUFACTURING COMPANY, Scranton, Pa. Filed Oct. 29, 1920.



The descriptive words "Horke Vino" are disclaimed apart from the other parts of the mark shown.
Particular description of goods.—A General Tonic.
Claims use since about Feb. 9, 1920.

Ser. No. 139,042. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGIC BEAUTIFIER COMPANY, New York, N. Y. Filed Nov. 1, 1920.

Magic Beautifier

No claim being made to the word "Beautifier" apart from the mark as shown.
Particular description of goods.—Face-Powder in Paste Form.
Claims use since January, 1919.

Ser. No. 139,055. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL D. SCHNEIDER, Memphis, Tenn. Filed Nov. 1, 1920.

Gintone

Particular description of goods.—Cold-Creams, Vanishing Creams, Toilet Waters, Hair-Dressings, General and Medicinal Tonics.
Claims use since June 11, 1918.

Ser. No. 139,079. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Nov. 2, 1920.

AMBREINE

Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine, Including Perfumes for Face-Powders, Sachet-Powders, Lotions, Soap, and Dentifrices.
Claims use since 1906.

Ser. No. 139,080. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France. Filed Nov. 2, 1920.

EAU
DE
COTY

Particular description of goods.—Perfumes and Toilet Waters.
Claims use since 1920.

Ser. No. 139,166. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN AUSTIN LEATHERMAN, Washington, D. C. Filed Nov. 4, 1920.

RENLIN PILE REMEDY

The words "Pile Remedy" as shown in the drawing are disclaimed apart from the mark shown.
Particular description of goods.—A Preparation for the Treatment of Protruding, Itching, and Bleeding Piles.
Claims use since Nov. 1, 1920.

Ser. No. 139,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL POZMANTIER, New York, N. Y. Filed Nov. 4, 1920.



The trade-mark is a facsimile of the photograph of Mrs. Lena Pozmantier, deceased.
Particular description of goods.—Preparation Promoting the Growth of the Hair.
Claims use since Oct. 25, 1920.

Ser. No. 139,182. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BLOCH GO-CART COMPANY, Philadelphia, Pa. Filed Nov. 5, 1920.



No claim being made to the word "Chariot" apart from the mark shown on the drawing.
Particular description of goods.—Baby-Carriages.
Claims use since Aug. 26, 1920.

Ser. No. 139,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES I. COOK, Menominee, Mich. Filed Nov. 5, 1920.

GOLDEN-CUT

Particular description of goods.—Coffee.
Claims use since Oct. 15, 1920.

Ser. No. 139,197. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANGEL GABRIEL DEL CASTILLO, Seville, Spain. Filed Nov. 5, 1920.

POPULAR

Particular description of goods.—Olive-Oil and Canned Olives.
Claims use since Sept. 8, 1917.

Ser. No. 139,238. (CLASS 39. CLOTHING.) WHEN CLOTHING COMPANY, Indianapolis, Ind. Filed Nov. 5, 1920.

WHEN

Particular description of goods.—Clothing and Gent's Furnishing Goods—Namely, Coats, Vests, Trousers, Dress-Shirts, Negligée Shirts, Work-Shirts, Leather Gloves, Rubber Gloves, Fabric Gloves, Collars, Neckties, Knitted Underwear, Textile-Fabric Underwear of Both One-Piece and Two-Piece Garments, Hats, Caps, and Hosiery.
Claims use since Jan. 20, 1875.

Ser. No. 139,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MONTELAISE MERCANTILE CO., Detroit, Mich. Filed Nov. 6, 1920.

Vitola

Particular description of goods.—A Laxative Tonic and Blood-Purifier.
Claims use since July 21, 1920.

Ser. No. 139,305. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Nov. 6, 1920.

METAGEN

Particular description of goods.—Vitamin Products for Therapeutic Administration to Promote Nutrition.
Claims use since July 1, 1920.

Ser. No. 139,310. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MR. & MRS. LEWIS A. SHINDLEY, Grand Rapids, Mich. Filed Nov. 6, 1920.



The picture shown is that of one of the applicants.
Particular description of goods.—A Liquid External Preparation for Pneumonia, Influenza, Colds, Throat Trouble, Rheumatism, Neuralgia, Sprains.
Claims use since Oct. 9, 1920.

Ser. No. 139,342. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN ZINC, LEAD AND SMELTING COMPANY, Boston, Mass. Filed Nov. 8, 1920.

AZO

Particular description of goods.—Zinc Oxid and Mixtures Containing Zinc Oxid for Use as Paint-Pigments.
Claims use since about Nov. 21, 1918.

Ser. No. 139,385. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) H. M. ZEIGLER & SON, Battle Creek, Mich. Filed Nov. 8, 1920.

Z-GLARE

Particular description of goods.—Automobile, Piano, and Furniture Polish.
Claims use since July 21, 1919.

Ser. No. 139,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIAMOND PURE FOOD COMPANY, Jeffersonville, Ind. Filed Nov. 9, 1920.

DIAMOND CRISP

Particular description of goods.—Cake, Wafers, and Pancake-Flour.
Claims use since 1915.

Ser. No. 139,448. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIUSEPPE BUONAIUTO, New York, N. Y. Filed Nov. 10, 1920.



Particular description of goods.—Hair-Tonic.
Claims use since June 5, 1920.

Ser. No. 139,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEWBRO MANUFACTURING COMPANY, Atlanta, Ga. Filed Nov. 10, 1920.

QVEEN

Particular description of goods.—Hair-Pomade.
Claims use since June 1, 1915.

Ser. No. 139,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADOLPH KOMENT, Jersey City, N. J. Filed Nov. 12, 1920.

MIGH

Particular description of goods.—Bread.
Claims use since Nov. 8, 1920.

Ser. No. 139,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERRY DAN SPAULDING, Boston, Mass. Filed Nov. 12, 1920.

Conjunctol
Spaldo

Particular description of goods.—A Preparation Indicated in All Forms of Inflammation and Irritation of the Eyes.
Claims use since about Nov. 1, 1920.

Ser. No. 139,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINO MEDICAL COMPANY, INC., New York, N. Y. Filed Nov. 13, 1920.

VEENOLAK

Particular description of goods.—A Liquid Preparation Used as a Mild Laxative and as a Tonic for the Human Stomach.
Claims use since September, 1920.

Ser. No. 139,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINO MEDICAL COMPANY, INC., New York, N. Y. Filed November 13, 1920.

VEENOTONIC

Particular description of goods.—A Liquid Preparation Used as a Mild Laxative and as a Stomach Tonic.
Claims use since June, 1920.

Ser. No. 139,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REGINALD D. BRADSHAW, Payette, Idaho. Filed Nov. 15, 1920.

CLOVER LEAF BRAND
BEE
PRODUCTS

No claim being made to the words "Brand" and "Bee Products."
Particular description of goods.—Comb and Extracted Honey.
Claims use since Sept. 1, 1917.

Ser. No. 139,665. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COTTO WAXO CO., St. Louis, Mo. Filed Nov. 15, 1920.

HEN-TONE

Particular description of goods.—Poultry-Tonics.
Claims use since Aug. 1, 1920.

Ser. No. 139,738. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELMER CARPENTER, Harvard, Ill. Filed Nov. 17, 1920.



The word "Clearskin" appearing on the drawing is disclaimed apart from the mark as shown.

Particular description of goods.—A Face-Lotion.

Claims use since on or about Nov. 15, 1919.

Ser. No. 139,751. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PORCELAIN ENAMEL AND MANUFACTURING COMPANY OF BALTIMORE, Baltimore, Md. Filed Nov. 17, 1920.

PEMCO

Particular description of goods.—Vitreous and Porcelain Enamels.

Claims use since July, 1917.

Ser. No. 139,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHES, PIVER & CO., Elizabeth, N. J., and New York, N. Y. Filed Nov. 17, 1920.

RRC

CAL-ARSENATE

The words "Cal-Arsenate" are disclaimed apart from the mark as shown.

Particular description of goods.—Calcium Compounds.

Claims use since January, 1916.

Ser. No. 139,779. (CLASS 39. CLOTHING.) SAMUEL ZALIS, Baltimore, Md. Filed Nov. 17, 1920.

WORKINGMAN'S FRIEND

Big UNCLE Willie Shirt

IS LARGE and FULL

LOT SIZE

No claim being made to the use of the words "Big Shirt is Large and Full, Lot, and Size" apart from the mark as shown.

Particular description of goods.—Work-Shirts, Dress-Shirts, Negligée Shirts.

Claims use since Oct. 29, 1920.

Ser. No. 139,802. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Nov. 18, 1920.

SHIMMERETTE

Particular description of goods.—Silks in the Piece.

Claims use since October, 1920.

Ser. No. 139,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALOIS BURAN, Ridgewood, N. Y. Filed Nov. 19, 1920.

ABURAN HEALING PLASTER

No claim is made to the words "Healing Plaster" apart from the mark shown.

Particular description of goods.—Healing-Plasters for Wounds, Cuts, and Bruises.

Claims use since Oct. 1, 1914.

Ser. No. 139,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DIAMOND CHEMICAL CO., San Francisco, Calif. Filed Nov. 19, 1920.

RED ROCK

Particular description of goods.—Artificial Mineral Water Used for Medicinal Purposes.

Claims use since Jan. 3, 1907.

Ser. No. 139,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCKUSICK-TOWLE & COMPANY, Minneapolis, Minn. Filed Nov. 19, 1920.

JUST-FOR-YOU

Particular description of goods—Candy.

Claims use since Aug. 13, 1915.

Ser. No. 139,886. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRAHAM BROS. SOAP COMPANY, Chicago, Ill. Filed Nov. 20, 1920.



The signature and silhouette represented in said trademark are those of Antoinette Donnelly.

Particular description of goods.—Shampoo, Toilet Powder, and Toilet Cream.

Claims use since on or about July 20, 1920.

Ser. No. 139,982. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE KEENER SAND & CLAY CO., Columbus, Ohio. Filed Nov. 22, 1920.

KEENCO

Particular description of goods.—Molding-Sand.

Claims use since about Sept. 1, 1920.

Ser. No. 139,983. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM T. KELLEY, Kirkwood, Mo. Filed Nov. 22, 1920.

GAD-HELIC

Particular description of goods.—Goiter-Reducer or Goiter Treatment.

Claims use since Nov. 1, 1920.

Ser. No. 139,991. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LENNIE SIMMONS, Dallas, Tex. Filed Nov. 22, 1920.

CRYSTOLINE

Particular description of goods.—A Tonic Used in the Treatment of the Hair and Scalp.

Claims use since Feb. 26, 1918.

Ser. No. 140,004. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WEBB BROS. BELTING CO., Kansas City, Mo. Filed Nov. 22, 1920.

RED-WING

Particular description of goods.—Rubber Belting.

Claims use since June 1, 1918.

Ser. No. 140,019. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CALIFORNIA ALKALI COMPANY, Los Angeles, Calif. Filed Nov. 23, 1920.

CALIFORNIA ALKALI CO. TRIANGLE BRAND SAN FRANCISCO

No claim is made to the exclusive use of the words "Brand" and "San Francisco."

Particular description of goods.—Soda-Ash Used in the Manufacture of Glass, Sodium, Silicate, Soap, and Many Chemicals Which Have Sodium as the Base; Sodium Sesquicarbonate, Commonly Called Neutral Soda; Caustic Soda, and Trona or Crude Sesquicarbonate.

Claims use since Oct. 1, 1919.

Ser. No. 140,037. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE HOUBIGANT, Paris, France. Filed Nov. 23, 1920.

un peu d'ambre

Particular description of goods.—Perfumes, Toilet Waters, Face-Powders, Lotions for the Skin and Hands, Sachets, Sachet-Powders, and Brilliantine.

Claims use since November, 1920.

Ser. No. 140,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN PRODUCTS CO., New York, N. Y. Filed Nov. 24, 1920.

KING EDWARDS TONIC

No claim being made herein to the word "Tonic" apart from the mark shown on the drawing.

Particular description of goods.—General Tonic.

Claims use since Nov. 2, 1920.

Ser. No. 140,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HYMAN & OPPENHEIM, New York, N. Y. Filed Nov. 24, 1920.



The drawing is lined to indicate the color green. No claim is made for the exclusive use of the words "Brilliantine Cristallisée" apart from the mark as shown.

Particular description of goods.—Hair-Dressing.

Claims use since about Oct. 1, 1920.

Ser. No. 140,210. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLIDE RANDALL, Bartlett, Kans. Filed Nov. 26, 1920.



Particular description of goods.—Salve and Ointment Preparations to be Used as an Application for Chapped Hands, Sores, Wounds, Burns, &c., and Also to be Used as a General Ointment for Sore Throat.

Claims use since Dec. 1, 1917.

Ser. No. 140,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Nov. 26, 1920.

Parfumez-vous

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonics, Hair-Oils, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorizing Preparations, and Sachet-Powders.
Claims use since Nov. 20, 1920.

Ser. No. 140,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Nov. 26, 1920.

CHLORA-MINT

The word mint is disclaimed apart from the mark as shown.
Particular description of goods.—Tooth-Pastes.
Claims use since Oct. 28, 1915.

Ser. No. 140,304. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

CRYSTAL SPRAY

Particular description of goods.—Muslins in the Piece.
Claims use since 1900.

Ser. No. 140,317. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

DALEWEST

Particular description of goods.—Bedspreads.
Claims use since 1901.

Ser. No. 140,319. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

INSTITUTION

Particular description of goods.—Bedspreads.
Claims use since 1901.

Ser. No. 140,399. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVING R. PARSONS, Chicago, Ill. Filed Nov. 29, 1920.

Ariella

Particular description of goods.—Nail-Polish in Powder Form.
Claims use since Nov. 15, 1920.

Ser. No. 140,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN PALADINO, Philadelphia, Pa. Filed Nov. 29, 1920.



The picture in the mark is that of applicant.
Particular description of goods.—Compound for Weakened Nerves, Loss of Strength, Impure Blood, Rheumatism, Weak Lungs, Leg Weakness, Chronic Blood Troubles, and Pimples of Long Standing.
Claims use since Oct. 1, 1920.

Ser. No. 140,424. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMORY COUNCIL ADAMS, Columbus, Ga. Filed Nov. 30, 1920.



The drawing is lined to indicate the colors red and blue, no claim being made to the form of the capsule apart from the mark as shown.
Particular description of goods.—Medicinal Preparation for the Treatment of Diseases Due to Improper Functioning of the Liver.
Claims use since Nov. 22, 1920.

Ser. No. 140,509. (CLASS 39. CLOTHING.) J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Dec. 1, 1920.



Particular description of goods.—Men's, Youths', and Boys' Outer Garments Comprising Coats, Vests, Trousers, Knickerbockers, Overcoats, Mackinaws, Jackets, and Overalls, Children's and Youths' Rompers, and Children's and Misses' Bloomers.
Claims use since on or about Jan. 6, 1901.

Ser. No. 140,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DILL COMPANY, Norristown, Pa. Filed Dec. 2, 1920.

DILL'S EZ-A-Cold

Particular description of goods.—A Medicinal Preparation for Aid in the Treatment of Colds, Croup, Burns, Bronchitis, Sprains, Catarrh, Insect-Stings, Neuralgia, Whooping-Cough, Bruises, Pneumonia Symptoms, Rheumatic Pains, and Inflammation and Congestion of the Air-Passages.
Claims use since about Mar. 1, 1920.

Ser. No. 140,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. MEIER & SON, New York, N. Y. Filed Dec. 2, 1920.

M

Particular description of goods.—Smoked and Dried Meats and Dried Sausage.
Claims use since Nov. 1, 1920.

Ser. No. 140,553. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. T. VANDERBILT CO. INC., New York, N. Y. Filed Dec. 2, 1920.

R.T. VANDERBILT CO. N.Y. SUPER SULPHUR N.Y. AMERICAN PRODUCTS

No claim is made for the words "N. Y., American Products, Super Sulphur" apart from the marks shown in the drawing.
Particular description of goods.—A Chemical Compound Used as an Accelerator in the Preparation and Manufacture of Vulcanized Rubber.
Claims use since May 1, 1920.

Ser. No. 140,576. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOUTHERN AGRICULTURAL CHEMICAL CORPORATION, Richmond, Va. Filed Dec. 3, 1920.



The representation of the sun is in red coloring. The applicant disclaims the words "Fertilizer Products" shown on the said drawing.
Particular description of goods.—Sulfuric Acid.
Claims use since Nov. 22, 1920.

Ser. No. 140,589. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIGANTE & COMPANY, INC., New York, N. Y. Filed Dec. 4, 1920.

MILK of LILY MAGNESIA



No claim is made to the word "Magnesia" apart from the trade-mark shown in the drawing.
Particular description of goods.—Laxative Magnesia.
Claims use since July, 1920.

Ser. No. 140,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL A. BALASZEK, Cleveland, Ohio. Filed Dec. 6, 1920.



Including the portrait of the applicant.
Particular description of goods.—A Palliative for Rheumatism, Colds, and Diseases of the Throat and Muscles.
Claims use since about Nov. 1, 1920.

Ser. No. 140,662. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERHARD LANG, Buffalo, N. Y. Filed Dec. 6, 1920.

LANG'S
UNCLE SAM
BRAND

No claim is made to the exclusive appropriation of the word "Brand" except in connection with the other words used in this mark.

Particular description of goods.—Fresh Meats Consisting of Beef, Lamb, Veal, and Pork; Smoked Meats Consisting of Ham, Bacon, Tongue, and Dried Beef; Salted Meats Consisting of Corned Beef, Salted Pork, and Salted Tongue, and Lard.

Claims use since May 1, 1915.

Ser. No. 140,698. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WRIGHT'S INDIAN VEGETABLE PILL COMPANY, New York, N. Y. Filed Dec. 6, 1920.



All of the wording excepting the words "A Dead Shot," "Tiro Seguro," "Wright's Indian Vegetable Pill Co., Inc.," and "Doctor H. F. Peery," being disclaimed apart from the mark shown in the drawing.

Particular description of goods.—A Vermifuge.

Claims use since November, 1914.

Ser. No. 140,699. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WRIGHT'S INDIAN VEGETABLE PILL COMPANY, New York, N. Y. Filed Dec. 6, 1920.



All of the wording excepting the words "A Dead Shot," "Tiro Seguro," "Tiro Mortal," "Wright's Indian Vegetable Pill Co., Inc.," and "Doctor H. F. Peery" being disclaimed apart from the mark shown in the drawing.

Particular description of goods.—A Vermifuge.

Claims use since May, 1919.

Ser. No. 140,935. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Dec. 11, 1920.

Cachemire-Fur

Particular description of goods.—Woolen Piece Goods.

Claims use since Nov. 15, 1920.

Ser. No. 140,937. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE A. C. GILBERT COMPANY, New Haven, Conn. Filed Dec. 11, 1920.

Proteociclo

Particular description of goods.—Sets of Metal or Wooden or Metal and Wooden Building Elements Particularly Adapted to the Amateur Construction of Toy Vehicles and other Toys.

Claims use since Dec. 1, 1920.

Ser. No. 140,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM G. HOLLEY, Fort Wayne, Ind. Filed Dec. 11, 1920.

HYPO-IRON-OL

Particular description of goods.—General Tonic.

Claims use since on or about Mar. 1, 1920.

Ser. No. 140,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. JONES, Fletcher, Okla. Filed Dec. 11, 1920.



Applicant disclaims exclusive use of the words "Hair Restorer" apart from the manner shown in the drawing.

Particular description of goods.—Hair-Restorer.

Claims use since about 1905.

Ser. No. 141,012. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 13, 1920.

ARISTO

The lining of the drawing is not intended to indicate a particular color.

Particular description of goods.—Cotton Piece Goods.

Claims use since 1900.

Ser. No. 141,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREENABAUM BROS., INC., Seaford, Del. Filed Dec. 14, 1920. Under ten-year proviso.

NANTICOKE

Particular description of goods.—Catsup and Chili Sauce.

Claims use since Oct. 1, 1920.

Ser. No. 141,091. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME SUPPLY CO., Los Angeles, Calif. Filed Dec. 15, 1920.

MEL-O-MALT

Particular description of goods.—A Malted Barley-Syrup Which is a Pure Concentrated Extract of Malt-Sugar and is Used as an Ingredient in the Preparation of Malted Milk, Bakery Products, and Confectionery.

Claims use since July 17, 1919.

Ser. No. 141,102. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HESCO LTD., London, England. Filed Dec. 15, 1920.

HESCO

Particular description of goods.—Hand Lifting-Trucks.

Claims use since Mar. 3, 1920.

Ser. No. 141,119. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KELSALL & KEMP LIMITED, The Butts, Rochdale, England. Filed Dec. 15, 1920.



Particular description of goods.—Flannel, Being Woolen Piece Goods.

Claims use since Mar. 26, 1919.

Ser. No. 141,169. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VINCENT CHARLES GREGG, Los Angeles, Calif. Filed Dec. 16, 1920.



Particular description of goods.—Polishes for Furniture and All Painted and Varnished Surfaces.

Claims use since Mar. 1, 1920.

Str. No. 141,260. (CLASS 39. CLOTHING.) THE FLORSHEIM SHOE COMPANY, Chicago, Ill. Filed Dec. 18, 1920.



The word "Shoe" is disclaimed apart from the mark shown.

Particular description of goods.—Boots and Shoes Made of Leather.

Claims use since 1913.

Ser. No. 141,328. (CLASS 39. CLOTHING.) MATTIE K. REDFORD, Lexington, Ky. Filed Dec. 20, 1920.

TINY TAD

Particular description of goods.—Children's Rompers.

Claims use since Mar. 1, 1919.

Ser. No. 141,406. (CLASS 39. CLOTHING.) AMERICAN DRY GOODS COMPANY OF NEW YORK, New York, N. Y. Filed Dec. 22, 1920.

Hermosa

Particular description of goods.—Men's, Ladies', and Children's Underwear, Knitted and Textile Fabrics, as Undershirts, Underdrawers, Union-Suits, Knitted Waists, and One, Two, and Three Piece Garments.

Claims use since May, 1916.

Ser. No. 141,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FANNIE KNIGHTS, Wichita, Kans. Filed Dec. 23, 1920.

Mi-Buti

Particular description of goods.—Face-Powder.

Claims use since Feb. 28, 1919.

Ser. No. 141,498. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MARMITE FOOD EXTRACT CO., LIMITED, London, England. Filed Dec. 24, 1920.

MARMITE

Particular description of goods.—A Concentrated Culinary Preparation, Being a Vegetable Extract Prepared from the Yeast-Cell.

Claims use since June 13, 1902.

Ser. No. 141,518. (CLASS 39. CLOTHING.) J. EDWARDS & CO., INC., Philadelphia, Pa. Filed Dec. 27, 1920.

SHURE-FOOT

Particular description of goods.—Children's, Misses', and Growing-Girls' Leather Shoes.
Claims use since Jan. 1, 1918.

Ser. No. 141,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y. Filed Dec. 28, 1920.



Particular description of goods.—Butter-Color.
Claims use since Sept. 20, 1920.

Ser. No. 141,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y. Filed Dec. 28, 1920.



Particular description of goods.—Food-Colors for Desserts, Candies, Ice-Cream, Cakes, Gelatin, Jellies, Icings, and Goods of a Similar Nature.
Claims use since Sept. 20, 1920.

Ser. No. 141,594. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) O. I. LEWIS, Albuquerque, N. Mex. Filed Dec. 28, 1920.

NEC-A-TOSH

Particular description of goods.—An External Remedy Useful in the Treatment of Eczema and other Skin Affections.
Claims use since Feb. 20, 1920.

Ser. No. 141,595. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. MOORE, Kansas City, Mo. Filed Dec. 28, 1920.

COMO

Particular description of goods.—A Cream for Eczema.
Claims use since Dec. 1, 1920.

Ser. No. 141,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. W. W. FORREST, Oakland, Calif. Filed Dec. 29, 1920.

ZINCLARO

Particular description of goods.—Vaporized Grapes.
Claims use since Dec. 9, 1920.

Ser. No. 141,662. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNIE BERKOWITZ, Brooklyn, N. Y. Filed Dec. 30, 1920.

BERKOLINE

Particular description of goods.—A Preparation for the Treatment of Pulmonary Diseases.
Claims use since about Oct. 15, 1920.

Ser. No. 141,685. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MIHALOVITCH CO., Cincinnati, Ohio. Filed Dec. 30, 1920.

GRAND ROYAL CROWN
HEALTHO

Particular description of goods.—A Tonic Used as a Blood-Builder and Nerve-Tonic.
Claims use since September, 1920.

Ser. No. 141,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER A. FRASSE & CO., INC., New York, N. Y. Filed Dec. 31, 1920.

"MENO"

Particular description of goods.—A Chemical Compound, Rust-Remover, Preventive, and Cleanser.
Claims use since on or about November, 1919.

Ser. No. 141,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTAVE C. GENNERT, New York, N. Y. Filed Dec. 31, 1920.

NEOL

Particular description of goods.—Photographic Developers.
Claims use since Aug. 6, 1920.

Ser. No. 141,739. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. C. AINSLEY PACKING CO., Campbell, Calif. Filed Jan. 3, 1921.

JELEE-FRUTE

Particular description of goods.—Canned Fruit—Namely, Fruit Processed with Syrup and Gelatin to Form a Gelatinous Molded Mass.
Claims use since Dec. 11, 1920.

Ser. No. 141,782. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOD RIVER SPRAY COMPANY, Hood River, Oreg. Filed Jan. 3, 1921.

DORMOIL

Particular description of goods.—Concentrated Spray Composition for Spraying Vegetation, After Proper Dilution, to Destroy Insects and the Like.
Claims use since about Jan. 1, 1920.

Ser. No. 141,815. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me. and Boston, Mass. Filed Jan. 3, 1920.

HATCHET

Particular description of goods.—Cream Tartar, Baking-Soda, Sulfur, and Epsom Salts.
Claims use since 1883.

Ser. No. 141,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NOVOCOL CHEMICAL M'F'G. CO., INC., Brooklyn, N. Y. Filed Jan. 4, 1921.

Novesthal

Particular description of goods.—Local Anesthetics.
Claims use since about Mar. 1, 1920.

Ser. No. 141,860. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOSTER-MCCLELLAN CO., Buffalo, N. Y., and London, England. Filed Jan. 5, 1921.

"BILAX"

Particular description of goods.—Preparations for use in connection with the Digestive Disorders.
Claims use since about May 1, 1907.

Ser. No. 141,890. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) WILDER MFG. CO. INC., Brooklyn, N. Y. Filed Jan. 5, 1921.

The Luncheonette

No claim is made for the exclusive use of the word "The" apart from the mark shown in the drawing.
Particular description of goods.—Luncheon Outfit Consisting of Table and Outer Case, Chairs, Inner Case Containing Metal Food-Container, Plates, Knives, Forks, and Spoons.
Claims use since July 1, 1920.

Ser. No. 141,991. (CLASS 39. CLOTHING.) THE PONTIAC MANUFACTURING COMPANY, Auburn, Me. Filed Jan. 8, 1921.

PONTIAC

The lines shown on the drawing are for shading only and do not indicate color.
Particular description of goods.—Woolen Outside Shirts, Coats, Vests, and Pants.
Claims use since Apr. 15, 1920.

Ser. No. 142,019. (CLASS 39. CLOTHING.) A. B. KIRSCHBAUM COMPANY, Philadelphia, Pa. Filed Jan. 10, 1921.

Utilite&

Particular description of goods.—Men's and Young Men's Outer Suits and Overcoats.
Claims use since Aug. 19, 1920.

Ser. No. 142,052. (CLASS 39. CLOTHING.) WECHSLER BARBER SILK CO., INC., New York, N. Y. Filed Jan. 10, 1921.

VAMPIRE

Particular description of goods.—Women's Waists, Dresses, and Women's Silk Underwear.
Claims use since about Jan. 2, 1921.

Ser. No. 142,054. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill. Filed Jan. 11, 1921.

PANOSE

Particular description of goods.—Corn-Syrup for Food Purposes.
Claims use since Oct. 4, 1920.

Ser. No. 142,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill. Filed Jan. 11, 1921.

HONEY DEW

Particular description of goods.—Corn-Syrup for Food Purposes.
Claims use since Oct. 5, 1920.

Ser. No. 142,109. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOEHR'S, Chicago, Ill. Filed Jan. 11, 1921.

LOVE BIRD

Particular description of goods.—Candy.
Claims use since January, 1920.

Ser. No. 142,112. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOEHR'S, Chicago, Ill. Filed Jan. 11, 1921.

SWAGGER STICKS

Particular description of goods.—Candy.
Claims use since May, 1919.

Ser. No. 142,113. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOEHR'S, Chicago, Ill. Filed Jan. 11, 1921.

"Just for to-day"

Particular description of goods.—Candy.
Claims use since May, 1919.

Ser. No. 142,114. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BASIL M. TAIT, Denver, Colo. Filed Jan. 11, 1921.



No claim being made to the words "Chocolate Chest" and the pictorial representation of the goods and the container of the goods apart from the mark as shown.
Particular description of goods.—Candies.
Claims use since Nov. 24, 1920.

Ser. No. 142,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PLUMMER & EDWINS, Seattle, Wash. Filed Jan. 12, 1921.

BISON



Particular description of goods.—Fresh deciduous fruit.
Claims use since June 25, 1920.

Ser. No. 142,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX SCHUCKL, San Francisco, Calif. Filed Jan. 12, 1921.



No claim is made to the exclusive use of the word "Brand" or to the pictorial representation of the goods apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Jan. 23, 1920.

Ser. No. 142,191. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AVERY COMPANY, Peoria, Ill. Filed Jan. 13, 1921.

AVERY
TRACK-RUNNER

Particular description of goods.—Tractors and Motor-Propelled Agricultural Implements.
Claims use since Jan. 8, 1921.

Ser. No. 142,197. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERRELL S. COPELAND, Oelwein, Iowa. Filed Jan. 13, 1921.

RAINBOW

The trade-mark consists of the word "Rainbow" printed in blue and arranged adjacent a representation of a rainbow, consisting of an upper band of blue, a lower band of red, and an intermediate band of white cross-hatched with orange-colored lines.
Particular description of goods.—Chewing-Gum.
Claims use since Dec. 24, 1920.

Ser. No. 142,239. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GEORGE W. SMITH & COMPANY, INC., Philadelphia, Pa. Filed Jan. 13, 1921.

WOODISK

Particular description of goods.—Vehicle-Wheels.
Claims use since August, 1920.

Ser. No. 142,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMANDA DEGEN, Rockaway Beach, N. Y. Filed Jan. 15, 1921.

Bestglo

Consisting of the word "Bestglo."
Particular description of goods.—Nail-Polish Powder.
Claims use since Sept. 4, 1920.

Ser. No. 142,289. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN & COMPANY, INC., New York, N. Y. Filed Jan. 15, 1921.



Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.
Claims use since 1885.

Ser. No. 142,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHORT, PHILIPS & HEALY, INC., Seattle, Wash. Filed Jan. 15, 1921.



The circular background being yellow and the word "Speedwell" red, no claim being made to the words "Peanut Butter."
Particular description of goods.—Peanut-Butter.
Claims use since Dec. 30, 1920.

Ser. No. 142,366. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TURNER & MOORE MFG. CO., Detroit, Mich. Filed Jan. 17, 1921.

TURMO

Particular description of goods.—Gasolene-Engines.
Claims use since May 1, 1919.

Ser. No. 142,439. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) KOLLMORGEN OPTICAL CORPORATION, Brooklyn, N. Y. Filed Jan. 19, 1921.

SNAPLITE

Particular description of goods.—Lenses for Motion-Picture Projection and Similar Purposes.
Claims use since on or about Aug. 1, 1920.

Ser. No. 142,440. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) KOLLMORGEN OPTICAL CORPORATION, Brooklyn, N. Y. Filed Jan. 19, 1921.

KENOLITE

Particular description of goods.—Lenses for Motion-Picture Projection and Similar Purposes.
Claims use since on or about May 1, 1919.

Ser. No. 142,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLARD S. MARTIN, Plainfield, Vt. Filed Jan. 20, 1921.

GREATWOOD

Particular description of goods.—Sheep and Cattle.
Claims use since Jan. 1, 1917.

Ser. No. 142,515. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

Here-N-There

Particular description of goods.—Silk Piece Goods.
Claims use since October, 1920.

Ser. No. 142,516. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

SATIN-SONATA

No claim being made to the word "Satin" apart from the mark shown.
Particular description of goods.—Silk Piece Goods.
Claims use since November, 1920.

Ser. No. 142,517. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

Fokina Satin

No claim being made to the word "Satin" apart from the mark shown.
Particular description of goods.—Silk Piece Goods.
Claims use since November, 1920.

Ser. No. 142,522. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEASE & DWYER CO., Memphis, Tenn. Filed Jan. 20, 1921.

P and D

Particular description of goods.—Sweet Feed for Horses and Mules, Composed of Corn, Oats, Alfalfa-Meal, and Cane-Molasses; Hog Feed Composed of Digester-Tankage, Wheat-Shorts, Rice-Bran, Corn Feed-Meal, and Salt, and Laying-Mash for Hens, Composed of Meat-Meal, Wheat-Bran, Wheat-Shorts, Corn Feed-Meal, and Alfalfa-Meal.
Claims use since January, 1914.

Ser. No. 142,526. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEASE & DWYER CO., Memphis, Tenn. Filed Jan. 20, 1921.

PREMO

Particular description of goods.—Feed for Poultry, Composed of Wheat, Kafir Corn, Corn-Chops, Sunflower-Seed, and Barley; Chicken Feed Composed of Wheat, Kafir Corn and Millet-Seed, and Sweet Feed for Horses and Mules, Composed of Corn, Oats, Alfalfa-Meal, and Cane-Molasses.
Claims use since January, 1914.

Ser. No. 142,789. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Jan. 26, 1921.

Pongette

Consisting of the word "Pongette."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Oct. 30, 1920.

Ser. No. 142,980. (CLASS 12. CONSTRUCTION MATERIALS.) KRAUSS BROS. LUMBER CO., New Orleans, La. Filed Jan. 31, 1921.

KRAUSS BROS. LUMBER CO. CREOLE

The drawing being lined to indicate red.
Particular description of goods.—Wooden Shingles.
Claims use since Dec. 1, 1920.

Ser. No. 143,033. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADAMS-BACH HDKF. MFG. CO. INC., New York, N. Y. Filed Feb. 1, 1921.

Little Folks Daily Hankyfits

Particular description of goods.—Handkerchiefs.
Claims use since Aug. 17, 1920.

Ser. No. 143,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POULTRY PRODUCERS OF CENTRAL CALIFORNIA, INC., San Francisco, Calif. Filed Feb. 1, 1921.

CALPRO

Particular description of goods.—Eggs.
Claims use since June, 1920.

Ser. No. 143,070. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN DYK AND REEVES, Brooklyn, N. Y. Filed Feb. 1, 1921.

MINARET

Consisting of the word "Minaret."
Particular description of goods.—Dates.
Claims use since Sept. 29, 1920.

Ser. No. 143,114. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BOSTON MANUFACTURING COMPANY, Waltham, Mass. Filed Feb. 3, 1921.

JACQUELIN

Particular description of goods.—Gingham Piece Goods.
Claims use since Jan. 15, 1921.

Ser. No. 143,122. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLANNERY BOLT COMPANY, Pittsburgh, Pa. Filed Feb. 3, 1921.

"REALOCK"

Particular description of goods.—Lock-Nuts.
Claims use since Aug. 3, 1920.

Ser. No. 143,155. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. B. BARKER & CO. LTD., New York, N. Y. Filed Feb. 4, 1921. Under ten-year proviso.

UNION COLD SWAGED MACHINE NEEDLES

The lining expressing shading.
Particular description of goods.—Sewing-Machine Needles and Machine Knitting-Needles.
Claims use since Jan. 1, 1883.

Ser. No. 143,189. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass. Filed Feb. 4, 1921.



Particular description of goods.—Satin and Satin De Chine in the Piece.
Claims use since Jan. 1, 1853.

Ser. No. 143,190. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass. Filed Feb. 4, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Silk and Satin Goods in the Piece.
Claims use since 1848.

Ser. No. 143,192. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass. Filed Feb. 4, 1921.

Skinner's "404"

Particular description of goods.—Silk and Satin Goods in the Piece.
Claims use since May, 1908.

Ser. No. 143,218. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 5, 1921.

P AND G SPECIAL EDIBLE COCOANUT OIL

No claim is made for the words "Special, Edible Cocoanut Oil" apart from the mark as shown in the drawing.
Particular description of goods.—Cocoanut-Oil.
Claims use since Jan. 11, 1921.

Ser. No. 143,226. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TITEFLEX METAL HOSE CORPORATION, Newark, N. J. Filed Feb. 5, 1921.

LOOSTITE

Particular description of goods.—Pipe-Couplings.
Claims use since July 12, 1920.

Ser. No. 143,229. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. V. & L. M. STEERE, Boston, Mass. Filed Feb. 5, 1921.

Morrissena
Kitchen made

The words "Kitchen Made" are disclaimed apart from the other features of the mark.
Particular description of goods.—Candy—Namely, Fudge.
Claims use since Nov. 7, 1920.

Ser. No. 143,302. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) TORCHWELD EQUIPMENT COMPANY, Chicago, Ill. Filed Feb. 7, 1921.



No claim is made for the representation of the goods apart from the mark as shown.
Particular description of goods.—Blowpipes.
Claims use since on or about June 1, 1918.

Ser. No. 143,319. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FLASH HOT WATER HEATER CO., Philadelphia, Pa. Filed Feb. 8, 1921.

Flash

Particular description of goods.—Hot-Water Heaters.
Claims use since Dec. 7, 1920.

Ser. No. 143,424. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. BORNSTEIN & SONS, Paterson, N. J. Filed Feb. 11, 1921.

MS SHIRTINGS "The Brand of Excellence"

No claim is made to the word "Shirtings" or the phrase "The Brand of Excellence" apart from the rest of the mark.

Particular description of goods.—Silk Shirtings in the Piece.

Claims use since Jan. 19, 1921.

Ser. No. 143,425. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. BORNSTEIN & SONS, Paterson, N. J. Filed Feb. 11, 1921.

SUPERCREPE

No claim is made to any part of the word constituting the mark apart from the remainder thereof.

Particular description of goods.—Silk Shirtings in the Piece.

Claims use since Jan. 19, 1921.

Ser. No. 143,426. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) M. BORNSTEIN & SONS, Paterson, N. J. Filed Feb. 11, 1921.

MEZZOCREPE

No claim is made to any part of the word constituting the mark apart from the remainder thereof.

Particular description of goods.—Silk Shirtings in the Piece.

Claims use since Jan. 19, 1921.

Ser. No. 143,431. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COFFEE DAN'S INC., Detroit, Mich. Filed Feb. 11, 1921.

Coffee Dan's

No claim being made to the exclusive use of the word "Coffee" apart from the mark shown.

Particular description of goods.—Coffee.

Claims use since Oct. 1, 1920.

Ser. No. 143,432. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & COMPANY, INC., New York, N. Y. Filed Feb. 11, 1921.

DRIL ÉPOCA

No claim being made to the word "Drill" apart from the mark shown.

Particular description of goods.—Bleached, Colored, and Dyed Cotton and Cotton and Silk Mixtures in the Piece.

Claims use since March, 1918.

Ser. No. 143,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROOD CANDY CO., Pueblo, Colo. Filed Feb. 11, 1921.

SAN ISABEL

Particular description of goods.—Candy, Peanut-Butter, and Marshmallow Sundae.

Claims use since Mar. 16, 1920.

Ser. No. 143,542. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CONTINENTAL GIN CO., Birmingham, Ala. Filed Feb. 14, 1921. Under ten-year proviso.

MUNGER

Particular description of goods.—Cotton-Gins, Cotton-Presses, and Distributers, Lint-Flues, and Battery-Condensers for Cotton-Gins.

Claims use since 1886.

Ser. No. 143,552. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FRIEDLANDER LEATHER CO., INC., New York, N. Y. Filed Feb. 14, 1921.

MAJESTIC

Particular description of goods.—Leather.

Claims use since 1912.

Ser. No. 143,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 14, 1921.



DAY STAR

Particular description of goods.—Wheat-Flour.

Claims use since the fall of 1914.

Ser. No. 143,597. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Feb. 15, 1921.

CHAMILLA

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.

Claims use since Dec. 20, 1920.

Ser. No. 143,631. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TARANTELLA COMPANY, New York, N. Y. Filed Feb. 15, 1921.



Particular description of goods.—Mechanical Blade-Stroppers.

Claims use since Jan. 27, 1921.

Ser. No. 143,686. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLAYTON MFG. CO., Bristol, Conn. Filed Feb. 17, 1921.

FERRI STEEL

No claim being made to the exclusive use of the word "Steel" apart from the mark as shown in the drawing.

Particular description of goods.—Shears and Scissors.

Claims use since Jan. 11, 1921.

Ser. No. 143,724. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. C. WINEBRENNER & SON, INC., Frederick, Md. Filed Feb. 17, 1921.

WIN-SON

Particular description of goods.—Coffee.

Claims use since on or about Feb. 15, 1919.

Ser. No. 143,898. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE H. A. WILSON COMPANY, Newark, N. J. Filed Feb. 21, 1921.

WILCO

Particular description of goods.—Platinum Rivets, Silver Rivets, Nickel Rivets, and Rivets Made of a Disk of Platinum, Platinum-Iridium, Silver, Gold, or Tungsten or Alloys of These Metals with Each other or with other Metals Welded to a Base-Metal Rivet.

Claims use since April, 1920.

Ser. No. 143,965. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY STUEBNER, Philadelphia, Pa. Filed Feb. 23, 1921.

H S

Particular description of goods.—Knitting-Machine Sinkers.

Claims use since the month of March, 1919.

Ser. No. 143,971. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS-LOPER, Oshkosh, Wis. Filed Feb. 23, 1921.

X

Particular description of goods.—Automobile Air and Water Filling Posts.

Claims use since December, 1920.

Ser. No. 144,003. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN M. STRAUSS, Chicago, Ill. Filed Feb. 24, 1921.

HOOTCH

Particular description of goods.—Candy.

Claims use since Oct. 1, 1920.

Ser. No. 144,069. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DE MET AND COMPANY, Chicago, Ill. Filed Feb. 26, 1921.



The word "Candies" being disclaimed apart from the mark as shown.

Particular description of goods.—Candy.

Claims use since Dec. 20, 1920.

Ser. No. 144,340. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LE ROY MONTGOMERY, South Norwalk, Conn. Filed Mar. 5, 1921.

Isaac Church

Particular description of goods.—Expansion-Bolts.

Claims use since Feb. 21, 1921.

Ser. No. 144,347. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO. INC., New York, N. Y. Filed Mar. 5, 1921.



Particular description of goods.—Woven Cotton Piece Goods—Namely, Gray Cotton Goods.
Claims use since September, 1919.

Ser. No. 144,399. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRANK E. LOW, Paterson, N. J. Filed Mar. 7, 1921.

Felo

Particular description of goods.—Hair-Nets.
Claims use since Feb. 4, 1921.

Ser. No. 144,571. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARROW-TAYLOR BUTTER CO., Kansas City, Mo. Filed Mar. 10, 1921.

Spring Valley

Particular description of goods.—Oleomargarin.
Claims use since October, 1918.

Ser. No. 144,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. AINSA & SONS, INC., El Paso, Tex. Filed Mar. 12, 1921.

PAN-OLA

Particular description of goods.—Wheat-Flour.
Claims use since June 18, 1920.

Ser. No. 144,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL BELL & SONS, Philadelphia, Pa. Filed Mar. 12, 1921.

DIPLOMA

Particular description of goods.—Wheat-Flour.
Claims use since Jan. 1, 1896.

Ser. No. 144,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR COMPANY, Denver, Colo., and Weiser, Idaho. Filed Mar. 12, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since Feb. 2, 1921.

Ser. No. 144,674. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed Mar. 12, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since Dec. 6, 1920.

Ser. No. 144,677. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE J. C. LISLE MILLING COMPANY, Leavenworth, Kans. Filed Mar. 12, 1921.



The drawing being lined for red and the picture of the woman being fanciful.
Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since September, 1919.

Ser. No. 144,680. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MIDLAND FLOUR MILLING CO., Kansas City, Mo. Filed Mar. 12, 1921.



The picture being fanciful.
Particular description of goods.—Self-Rising Wheat-Flour and Wheat-Flour.
Claims use since Feb. 19, 1921.

Ser. No. 144,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. J. FREDERICK HANSON, Camden, N. J. Filed Mar. 15, 1921.

M-ANNA

Particular description of goods.—Bread.
Claims use since Feb. 25, 1921.

Ser. No. 144,877. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. C. RUDOLPH & COMPANY, INC., Chicago, Ill. Filed Mar. 17, 1921.

MONOGRAM

Particular description of goods.—Cheese.
Claims use since about 1901.

Ser. No. 144,898. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Mar. 18, 1921.

THELMA

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Oct. 15, 1920.

Ser. No. 144,950. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WARREN WEBSTER & COMPANY, Camden, N. J. Filed Mar. 18, 1921.



Particular description of goods.—Valves for Controlling Steam and Water.
Claims use since Mar. 1, 1921.

Ser. No. 145,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NUT GROVE BUTTER COMPANY, Providence, R. I. Filed Mar. 21, 1921.

White Valley

Particular description of goods.—Oleomargarin.
Claims use since Jan. 20, 1921.

Ser. No. 145,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NUT GROVE BUTTER COMPANY, Providence, R. I. Filed Mar. 21, 1921.

Golden Hue

Particular description of goods.—Oleomargarin.
Claims use since Jan. 20, 1921.

Ser. No. 145,142. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed Mar. 23, 1921.

DUPLEX

Particular description of goods.—Woven-Wire Screen-Cloth.
Claims use since October, 1920.

Ser. No. 145,173. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Mar. 24, 1921.

REDDY

Particular description of goods.—Hair-Nets.
Claims use since Mar. 15, 1921.

Ser. No. 145,246. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERMONT BUTTERINE CO., Providence, R. I. Filed Mar. 25, 1921.

VERCO

Particular description of goods.—Oleomargarin.
Claims use since Sept. 1, 1920.

Ser. No. 145,257. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE DAY COMPANY, Minneapolis, Minn. Filed Mar. 26, 1921.

DEFLECTO

Particular description of goods.—Ventilators and Chimney-Caps.
Claims use since Mar. 21, 1921.

Ser. No. 145,443. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 30, 1921.

Mochatex

Particular description of goods.—Woolen Piece Goods.
Claims use since Mar. 1, 1921.

Ser. No. 145,444. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 30, 1921.

Milanette

Particular description of goods.—Woolen Piece Goods.
Claims use since Mar. 1, 1921.

Ser. No. 145,479. (CLASS 12. CONSTRUCTION MATERIALS.) THE F. L. SAINO MANUFACTURING CO. INC., Memphis, Tenn. Filed Mar. 30, 1921.

Sainomet

Particular description of goods.—Metal Fire Doors and Shutters.
Claims use since Jan. 10, 1921.

Ser. No. 145,575. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Apr. 1, 1921.

Avenue

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1920.

Ser. No. 145,602. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN VALVE CO., Coxsackie, N. Y. Filed Apr. 2, 1921.

LUZ

Particular description of goods.—Valves.
Claims use since Mar. 1, 1921.

Ser. No. 145,641. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NORTH AMERICAN GINSENG CO. INC., New York, N. Y. Filed Apr. 2, 1921.

KLING KLOCE

Particular description of goods.—Hair-Nets.
Claims use since Mar. 30, 1921.

Ser. No. 145,698. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MALLEABLE IRON RANGE COMPANY, Beaver Dam, Wis. Filed Apr. 4, 1921.

Vitrifused

Particular description of goods.—Flue-Linings.
Claims use since Mar. 26, 1921.

Ser. No. 145,724. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DANIEL D. SIMMONS, Minot, N. D. Filed Apr. 4, 1921.

MINORTH

Consists of the coined word "Minorth."
Particular description of goods.—Field-Seed.
Claims use since Mar. 15, 1921.

Ser. No. 146,132. (CLASS 43. THREAD AND YARN.) MAX POLLACK & CO., INC., New York, N. Y. Filed Apr. 13, 1921.

M.P.

None Better

No right is asserted to the exclusive use of the words "None Better" except as a part of the mark shown in the drawing.
Particular description of goods.—Sewing-Threads.
Claims use since 1891.

Ser. No. 146,133. (CLASS 43. THREAD AND YARN.) MAX POLLACK & CO., INC., New York, N. Y. Filed Apr. 13, 1921.

NONE BETTER

No right is asserted to the exclusive use of the words "None Better" except as a part of the mark shown.
Particular description of goods.—Sewing-Threads.
Claims use since 1891.

Ser. No. 146,135. (CLASS 43. THREAD AND YARN.) MAX POLLACK & CO., INC., New York, N. Y. Filed Apr. 13, 1921.

METEOR

Particular description of goods.—Sewing-Threads.
Claims use since 1902.

Ser. No. 146,159. (CLASS 12. CONSTRUCTION MATERIALS.) THE ALLIANCE STUCCO COMPANY, Alliance, Ohio. Filed Apr. 14, 1921.

FLEX-O-ROCK

Particular description of goods.—Stucco.
Claims use since Apr. 1, 1921.

Ser. No. 146,695. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DAVIS & VOETSCH, New York, N. Y. Filed Apr. 25, 1921.

Laddie Boy

Particular description of goods.—Stuffed Toy Dogs.
Claims use since Apr. 21, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 24, 1921.

142,909. MEDICINAL PREPARATION FOR TREATMENT OF RHEUMATISM AND NEURITIS. WELCOME A. ABBOTT, Lamont, Iowa.
Filed July 30, 1920. Serial No. 135,588. PUBLISHED FEBRUARY 1, 1921.

142,910. CARTOONS. ALFRED G. ABLITZER, Brooklyn, N. Y.
Filed November 16, 1920. Serial No. 139,702. PUBLISHED FEBRUARY 8, 1921.

142,911. ANTISEPTIC POWDERS. GLENN ADAMS, Cincinnati, Ohio.
Filed June 21, 1920. Serial No. 133,948. PUBLISHED JANUARY 25, 1921.

142,912. SHOOTING DEVICE COMMONLY CALLED SLING-SHOT. ADDISON RUTLEDGE DE PASS, Columbia, S. C.
Filed November 20, 1919. Serial No. 125,108. PUBLISHED NOVEMBER 23, 1920.

142,913. MARBLE BLOCKS PREPARED FOR BUILDING PURPOSES. THE ALAMORO MARBLE COMPANY, Alamogordo, N. Mex., and Chicago, Ill.
Filed August 25, 1920. Serial No. 136,456. PUBLISHED FEBRUARY 8, 1921.

142,914. ANTISEPTIC MOUTH-WASH. THE ALKO PRODUCTS COMPANY, Oklahoma, Okla.
Filed June 25, 1920. Serial No. 134,168. PUBLISHED JANUARY 25, 1921.

142,915. WHEAT-FLOUR. AMENDT MILLING COMPANY, Monroe, Mich.
Filed October 19, 1920. Serial No. 138,465. PUBLISHED FEBRUARY 1, 1921.

142,916. WHEAT-FLOUR. AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill.
Filed November 27, 1920. Serial No. 140,242. PUBLISHED FEBRUARY 8, 1921.

142,917. TEA. AMERICAN JAVANESE PRODUCTS CO., Chicago, Ill.
Filed November 1, 1920. Serial No. 139,016. PUBLISHED FEBRUARY 8, 1921.

142,918. MONTHLY PERIODICAL. ARMCO CULVERT & FLUME MANUFACTURERS' ASSOCIATION, Middletown, Ohio.
Filed October 15, 1920. Serial No. 138,312. PUBLISHED FEBRUARY 8, 1921.

142,919. CERTAIN NAMED CEMENT. THE ARMSTRONG COMPANY, Detroit, Mich.
Filed October 28, 1920. Serial No. 138,887. PUBLISHED FEBRUARY 8, 1921.

142,920. MEDICINAL COMPOUND FOR APPENDICITIS AND OTHER AILMENTS OF THE DIGESTIVE ORGANS. AURORA MEDICINE COMPANY, Bullard, Tex.
Filed June 21, 1920. Serial No. 133,950. PUBLISHED JANUARY 25, 1921.

142,921. COFFEE AND TEA. C. W. ANTRIM & SONS, Richmond, Va.
Filed November 24, 1920. Serial No. 140,087. PUBLISHED FEBRUARY 8, 1921.

142,922. ELECTRICALLY-OPERATED STEREOPTICON-SLIDE PROJECTORS, AND PARTS THEREOF. AUTOMATIC ILLUMINATED ADVERTISING CORPORATION, New York, N. Y.
Filed November 11, 1920. Serial No. 139,490. PUBLISHED FEBRUARY 1, 1921.

142,923. BONE-BUILDER AND CONDITIONER FOR HOGS. THE AVALON FARMS COMPANY, Chicago, Ill.
Filed July 15, 1920. Serial No. 134,995. PUBLISHED JANUARY 25, 1921.

142,924. PREPARATION IN LIQUID FORM SOLD AND USED AS A HAIR-TONIC. ANTONIO P. AVILA, Lowell, Mass.
Filed June 5, 1920. Serial No. 133,292. PUBLISHED FEBRUARY 8, 1921.

142,925. INDICATORS FOR LIQUID-DISPENSING PUMPS. CHARLES S. AYRES, Riverton, N. J.
Filed October 28, 1920. Serial No. 138,886. PUBLISHED FEBRUARY 8, 1921.

142,926. CANNED FRUITS AND CANNED VEGETABLES. H. A. BAKER, INC., Sumner, Wash.
Filed November 23, 1920. Serial No. 140,010. PUBLISHED FEBRUARY 8, 1921.

142,927. LINIMENT USED IN THE TREATMENT OF SPRAINS, BRUISES, GLANDULAR SWELLINGS, AND SIMILAR AFFECTIONS. ESTELLA BALDWIN, Huntington, N. Y.
Filed May 7, 1917. Serial No. 103,581. PUBLISHED MAY 4, 1920.

142,928. REINFORCED GLASS. BANKERS PROTECTIVE APPLIANCE CORP., New York, N. Y.
Filed October 2, 1920. Serial No. 137,825. PUBLISHED FEBRUARY 1, 1921.

142,929. CARTOONS, PICTURES, AND DRAWINGS. GEORGE DOWN BARRETT, Cleveland, Ohio.
Filed October 19, 1920. Serial No. 138,468. PUBLISHED FEBRUARY 8, 1921.

142,930. CAPS FOR CHILDREN AND FOR CARNIVAL PURPOSES. KATE L. BARTHOLOMEW, Portland, Oreg.
Filed April 13, 1920. Serial No. 131,064. PUBLISHED FEBRUARY 8, 1921.

142,931. WALL-BOARD AND BUILDING-PAPER. THE BEAVER COMPANY, Buffalo, N. Y.
Filed October 12, 1920. Serial No. 138,202. PUBLISHED FEBRUARY 1, 1921.

142,932. DANDRUFF PREPARATION. AUCY MURLAND BELK, Mount Pleasant, Tenn.
Filed July 2, 1920. Serial No. 134,501. PUBLISHED JANUARY 25, 1921.

142,933. WOOLEN AND WORSTED YARNS. BERG BROTHERS, INC., New York, N. Y.
Filed December 16, 1920. Serial No. 141,152. PUBLISHED FEBRUARY 1, 1921.

142,934. MOVING-PICTURE FILMS. BIBLE FILMS, INC., FRANCIS ENGEL PRODUCTIONS, Los Angeles, Calif.
Filed October 26, 1920. Serial No. 138,805. PUBLISHED FEBRUARY 1, 1921.

142,935. CANDY. BLAETUS CANDY CO., INC., Pittsburgh, Pa.
Filed October 2, 1920. Serial No. 137,821. PUBLISHED FEBRUARY 8, 1921.

142,936. CANDY. THE BLUE RIBBON CANDY CO., Baltimore, Md.
Filed September 13, 1918. Serial No. 113,155. PUBLISHED NOVEMBER 4, 1919.

142,937. SHOES OF LEATHER, RUBBER, AND COMBINATION OF LEATHER AND RUBBER, RUBBER FABRIC, LEATHER AND FABRIC. THE BLUFF CITY SHOE COMPANY, Hannibal, Mo.
Filed October 7, 1920. Serial No. 138,078. PUBLISHED FEBRUARY 1, 1921.

142,938. CANNED SARDINES. BOOTH FISHERIES SARDINE COMPANY, Chicago, Ill.
Filed October 5, 1920. Serial No. 137,909. PUBLISHED FEBRUARY 1, 1921.

142,939. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,185. PUBLISHED FEBRUARY 8, 1921.

142,940. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,187. PUBLISHED FEBRUARY 8, 1921.

142,941. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,189. PUBLISHED FEBRUARY 8, 1921.

142,942. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,190. PUBLISHED FEBRUARY 8, 1921.

142,943. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,186. PUBLISHED FEBRUARY 8, 1921.

142,944. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,188. PUBLISHED FEBRUARY 8, 1921.

142,945. PERFUMES, TOILET WATERS, TOILET LOTIONS, POMADES, RICE POWDERS, FACE ROUGES AND CREAMS. JACQUES BRACH, Paris, France.
Filed April 5, 1920. Serial No. 130,841. PUBLISHED FEBRUARY 1, 1921.

142,946. PAINT ENAMEL USED AS A SURFACE COATING. WILLIAM A. BRIGGS, Philadelphia, Pa.
Filed September 29, 1920. Serial No. 137,722. PUBLISHED FEBRUARY 1, 1921.

142,947. CLEANING, SCOURING, AND POLISHING WADS, PADS, ROLLS, AND CLOTH OF ABRADANT NATURE. BRILLO MANUFACTURING COMPANY, New York, N. Y.
Filed October 6, 1920. Serial No. 137,999. PUBLISHED FEBRUARY 1, 1921.

142,948. REMEDY FOR COUGHS AND COLDS AND A GENERAL TONIC IN DISEASES OF THE RESPIRATORY ORGANS. BRISTOL-MYERS COMPANY, Brooklyn, N. Y.
Filed August 10, 1920. Serial No. 135,959. PUBLISHED FEBRUARY 1, 1921.

142,949. ALTERATIVE. CLAUDE H. BROOKS, Helena, Ark.
Filed July 19, 1920. Serial No. 135,129. PUBLISHED FEBRUARY 1, 1921.

142,950. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. EDWIN A. BUCHHOLZ, Peoria, Ill.
Filed April 9, 1920. Serial No. 130,874. PUBLISHED FEBRUARY 1, 1921.

142,951. HOPS. THE BURGER BROS. COMPANY, Cincinnati, Ohio.
Filed December 2, 1920. Serial No. 140,518. PUBLISHED FEBRUARY 8, 1921.

142,952. INSTRUCTION SHEETS OR CHARTS FOR DRESSMAKERS' PATTERNS. THE BUTTERICK PUBLISHING COMPANY, New York, N. Y.
Filed November 8, 1920. Serial No. 139,344. PUBLISHED FEBRUARY 8, 1921.

142,953. SAFETY-RAZOR-BLADE HOLDERS FOR HONING AND STROPPING THE BLADES BY HAND. BERT CARLISLE, Santa Ana, Calif.
Filed September 18, 1920. Serial No. 137,307. PUBLISHED FEBRUARY 1, 1921.

142,954. LINOLEUM, OIL-CLOTH, AND FLOOR-COVERINGS. CERTAIN-TEED PRODUCTS CORPORATION, St. Louis, Mo.
Filed October 13, 1920. Serial No. 138,251. PUBLISHED FEBRUARY 8, 1921.

142,955. PHARMACEUTICAL PRODUCT COMPRISING A REMEDY FOR GALL-STONES. CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland.
Filed April 8, 1920. Serial No. 130,804. PUBLISHED FEBRUARY 15, 1921.

142,956. PHARMACEUTICAL PRODUCT COMPRISING A SEDATIVE FOR THE INTESTINES. CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland.
Filed April 8, 1920. Serial No. 130,805. PUBLISHED FEBRUARY 15, 1921.

142,957. YARNS AND THREADS. CHEROKEE SPINNING CO., Knoxville, Tenn.
Filed September 8, 1920. Serial No. 136,933. PUBLISHED FEBRUARY 15, 1921.

142,958. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed October 20, 1920. Serial No. 138,541. PUBLISHED FEBRUARY 1, 1921.

142,959. ROUGH CHOCOLATES WITH CENTERS. L. J. CHRISTOPHER CO., Los Angeles, Calif.
Filed October 14, 1920. Serial No. 138,280. PUBLISHED FEBRUARY 1, 1921.

142,960. BICARBONATE OF SODA, SALERATUS, AND BAKING-POWDER. CHURCH & DWIGHT COMPANY, New York, N. Y.
Filed July 1, 1920. Serial No. 134,463. PUBLISHED JANUARY 25, 1921.

142,961. WHEAT-FLOUR. CISNEROS & CO. INC., New York, N. Y., and Rahway, N. J.
Filed October 19, 1920. Serial No. 138,473. PUBLISHED FEBRUARY 1, 1921.

142,962. WHEAT-FLOUR. CISNEROS & COMPANY INC., New York, N. Y., and Rahway, N. J.
Filed October 19, 1920. Serial No. 138,474. PUBLISHED FEBRUARY 1, 1921.

142,963. WHEAT-FLOUR. CISNEROS & CO. INC., New York, N. Y., and Rahway, N. J.
Filed October 19, 1920. Serial No. 138,475. PUBLISHED FEBRUARY 1, 1921.

142,964. WHEAT-FLOUR. CISNEROS & CO. INC., New York, N. Y., and Rahway, N. J.
Filed October 19, 1920. Serial No. 138,476. PUBLISHED FEBRUARY 1, 1921.

142,965. MOISTURE-PROOF PAPERS, PARAFFIN-PAPERS, AND WAX-PAPERS. THE CLEVELAND WATERPROOF PAPER COMPANY, Cleveland, Ohio.
Filed October 9, 1920. Serial No. 138,121. PUBLISHED FEBRUARY 1, 1921.

142,966. REMEDY (PREFERABLY IN WAFER FORM) FOR CORNS. JOSEPH B. CLOWER, Woodstock, Va.
Filed November 13, 1917. Serial No. 107,356. PUBLISHED FEBRUARY 10, 1920.

142,967. MOUTH-WASHES. ISRAEL M. COHN, La Grange, Ill.
Filed August 19, 1920. Serial No. 136,251. PUBLISHED JANUARY 25, 1921.

142,968. ANTIPYRETIC REMEDY FOR HUMAN USE. CONFECTIONERY INGREDIENTS LIMITED, London, England.
Filed June 1, 1920. Serial No. 133,131. PUBLISHED FEBRUARY 1, 1921.

142,969. PHOTOGRAPHIC AND STENCILED SIGNS. THE COPYMAKERS CORPORATION, Springfield, Mass.
Filed July 28, 1920. Serial No. 135,464. PUBLISHED FEBRUARY 8, 1921.

142,970. WORM MEDICINE FOR SWINE. CONTINENTAL SERUM LABORATORIES CO., Muscatine, Iowa.
Filed May 23, 1919. Serial No. 118,828. PUBLISHED AUGUST 17, 1920.

142,971. CHANGE-SPEED TRANSMISSIONS. COTTA TRANSMISSION COMPANY, Rockford, Ill.
Filed October 15, 1919. Serial No. 123,792. PUBLISHED FEBRUARY 8, 1921.

142,972. SHAVING-BRUSHES. THOMAS WILLIAM CULMER AND SONS, London, England.
Filed August 11, 1920. Serial No. 136,006. PUBLISHED FEBRUARY 8, 1921.

142,973. CERTAIN NAMED TOILET PREPARATIONS. CUTEX CORPORATION, New York, N. Y., assignor to Northam Warren Corporation, New York, N. Y., a Corporation of New York.
Filed September 1, 1920. Serial No. 136,698. PUBLISHED FEBRUARY 8, 1921.

142,974. HOSIERY. DAISY WHITEHEAD KNITTING CO., New York, N. Y.
Filed October 5, 1920. Serial No. 137,918. PUBLISHED FEBRUARY 8, 1921.

142,975. PREPARATION FOR IMPROVING GASOLENE. ALBERT DANVILLE, Sacramento, Calif.
Filed July 3, 1919. Serial No. 120,241. PUBLISHED JANUARY 6, 1920.

142,976. PREPARATION FOR THE TREATMENT OF SKIN DISEASES. JAMES D'ARCY, Rome, Ga.
Filed August 9, 1920. Serial No. 135,916. PUBLISHED JANUARY 25, 1921.

142,977. FLUX FOR WELDING SHEET-ALUMINUM. DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J.
Filed July 24, 1920. Serial No. 135,361. PUBLISHED JANUARY 25, 1921.

142,978. DAVENPORTS. DAVIS MFG. CO., Minneapolis, Minn.
Filed August 2, 1920. Serial No. 135,701. PUBLISHED FEBRUARY 8, 1921.

142,979. SERUM FOR THE PREVENTION OF HOG-CHOLERA. THE DENVER HOG SERUM COMPANY, Denver, Colo.
Filed August 9, 1920. Serial No. 135,919. PUBLISHED JANUARY 25, 1921.

142,980. MEDICINE FOR BLIND FOUL AND FOOT-HALT IN CATTLE. CLARK E. DE FOREST, Unadilla, N. Y.
Filed March 13, 1919. Serial No. 116,530. PUBLISHED JANUARY 25, 1921.

142,981. WRITING-PAPER. DERRYVALE LINEN COMPANY, New York, N. Y.
Filed October 16, 1920. Serial No. 138,375. PUBLISHED FEBRUARY 1, 1921.

142,982. POTASH, PHOSPHATES, AND COMMERCIAL FERTILIZERS. DIAMOND POTASH COMPANY, Chicago, Ill.
Filed January 22, 1919. Serial No. 115,374. PUBLISHED FEBRUARY 8, 1921.

142,983. SPEARMINT CANDY. MARK M. DIFFENBACHER, San Francisco, Calif., assignor to Ellamoore Candy Company, Reno, Nev., a Corporation of Nevada.
Filed August 29, 1919. Serial No. 122,114. PUBLISHED JANUARY 13, 1920.

142,984. COVER AND BOX PAPERS. DISTRICT OF COLUMBIA PAPER MANUFACTURING COMPANY, Alexandria, Va., and Washington, D. C.
Filed November 11, 1920. Serial No. 139,511. PUBLISHED FEBRUARY 1, 1921.

142,985. COVER, BOX, AND BOOK PAPERS. DISTRICT OF COLUMBIA PAPER MANUFACTURING COMPANY, Alexandria, Va., and Washington, D. C.
Filed November 11, 1920. Serial No. 139,514. PUBLISHED FEBRUARY 1, 1921.

142,986. LUMBER. DOUGLAS FIR EXPLOITATION AND EXPORT CO., San Francisco, Calif.
Filed April 28, 1920. Serial No. 131,727. PUBLISHED FEBRUARY 8, 1921.

142,987. OILS FOR USE IN PAINTS. WALTER B. DOXIE, San Francisco, Calif.
Filed September 20, 1920. Serial No. 137,366. PUBLISHED FEBRUARY 8, 1921.

142,988. LOGS AND ROUGH LUMBER. DUDLEY LUMBER COMPANY INCORPORATED, Memphis, Tenn.
Filed September 17, 1920. Serial No. 137,288. PUBLISHED FEBRUARY 8, 1921.

142,989. GOLF-BALLS. DUNLOP AMERICA LIMITED, Buffalo, N. Y.
Filed July 29, 1920. Serial No. 135,554. PUBLISHED FEBRUARY 8, 1921.

142,990. COMPOUND FOR USE IN TREATING COUGHS, COLDS, BRONCHITIS, TONSILLITIS, AND ULCERATIONS. RICHARD G. DUNWODY, Atlanta, Ga.
Filed July 13, 1920. Serial No. 134,882. PUBLISHED FEBRUARY 1, 1921.

142,991. IMITATION OR ARTIFICIAL LEATHER. DU PONT FABRIKOID COMPANY, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware.
Filed December 8, 1920. Serial No. 140,765. PUBLISHED FEBRUARY 1, 1921.

142,992. CERTAIN HARDWARE FOR BUILDERS. EARLE HARDWARE MANUFACTURING CO., Los Angeles, Calif.
Filed July 14, 1920. Serial No. 134,949. PUBLISHED FEBRUARY 8, 1921.

142,993. WHEAT-FLOUR. EARLE-MCGAVOCK MILLING COMPANY, Asheville, N. C.
Filed November 11, 1920. Serial No. 139,541. PUBLISHED FEBRUARY 1, 1921.

142,994. BOND-PAPER ADAPTED FOR WRITING AND PRINTING PURPOSES. M. M. ELISH & CO., INC., New York, N. Y.
Filed September 24, 1920. Serial No. 137,570. PUBLISHED FEBRUARY 1, 1921.

142,995. SHORTENING. ENEY SHORTENING CO., Chicago, Ill.
Filed November 6, 1920. Serial No. 139,257. PUBLISHED FEBRUARY 8, 1921.

142,996. CERTAIN NAMED MEDICINAL PREPARATION. ERNST WINE OF TANA MANUFACTURING CO., Otay, Calif.
Filed August 13, 1920. Serial No. 136,072. PUBLISHED JANUARY 25, 1921.

142,997. HAIR-TONIC. MADAM ESMERALDA, New York, N. Y.
Filed July 30, 1920. Serial No. 135,598. PUBLISHED JANUARY 25, 1921.

142,998. CERTAIN NAMED TOILET PREPARATIONS. ESTASI PERFUMERY CO., INC., New York, N. Y.
Filed March 10, 1920. Serial No. 129,493. PUBLISHED FEBRUARY 1, 1921.

142,999. CANDIES. EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y.
Filed December 2, 1920. Serial No. 140,525. PUBLISHED FEBRUARY 8, 1921.

143,000. CERTAIN NAMED VEHICLE-BODIES AND PARTS THEREOF. FIELD BODY CORPORATION, Owosso, Mich.
Filed June 24, 1920. Serial No. 134,119. PUBLISHED FEBRUARY 8, 1921.

143,001. HUMOROUS AND COMEDY MOVING-PICTURE AND PHOTOPLAY FILMS. FOX FILM CORPORATION, New York, N. Y.
Filed May 20, 1920. Serial No. 132,689. PUBLISHED FEBRUARY 8, 1921.

143,002. MEDICINAL PREPARATION FOR THE TREATMENT OF INFLUENZA. DAVID A. FINCH, Grand Junction, Colo.
Filed August 21, 1920. Serial No. 136,327. PUBLISHED JANUARY 25, 1921.

143,003. HAIR-TONIC. LEON FITTERMAN, Atlanta, Ga.
Filed June 28, 1920. Serial No. 134,307. PUBLISHED FEBRUARY 1, 1921.

143,004. CANDY. FLETCHER & WILSON COFFEE COMPANY, Nashville, Tenn.
Filed September 4, 1920. Serial No. 136,837. PUBLISHED NOVEMBER 23, 1920.

143,005. WHEAT-FLOUR. FORD FLOUR COMPANY, Nashville, Tenn.
Filed November 17, 1920. Serial No. 139,743. PUBLISHED FEBRUARY 1, 1921.

143,006. CERTAIN PAINTS, WOOD-STAINS, PAINT ENAMELS, AND IRON-FILLERS OF PAINT NATURE. THE FOY PAINT CO., Cincinnati, Ohio.
Filed September 29, 1920. Serial No. 137,728. PUBLISHED FEBRUARY 1, 1921.

143,007. CERTAIN NAMED JEWELRY. FREEMAN-DAUGHADAY CO., Chartley, Mass.
Filed November 10, 1920. Serial No. 139,455. PUBLISHED FEBRUARY 1, 1921.

143,008. LINIMENT FOR RHEUMATISM. WILLIAM FULD, Baltimore, Md.
Filed July 8, 1920. Serial No. 134,707. PUBLISHED FEBRUARY 8, 1921.

143,009. PUBLICATIONS RELATING TO THE STUDY OF LANGUAGES. FUNK & WAGNALLS COMPANY, New York, N. Y.
Filed June 10, 1920. Serial No. 133,533. PUBLISHED FEBRUARY 8, 1921.

143,010. MONTHLY PERIODICAL. THE GARDNER, MOFFAT CO., INC., New York, N. Y.
Filed November 13, 1920. Serial No. 139,652. PUBLISHED FEBRUARY 8, 1921.

143,011. DYESTUFFS. GEIGY COMPANY, INC., New York, N. Y.
Filed July 26, 1920. Serial No. 135,419. PUBLISHED JANUARY 25, 1921.

143,012. DYESTUFFS. GEIGY COMPANY, INC., New York, N. Y.
Filed July 26, 1920. Serial No. 135,421. PUBLISHED JANUARY 25, 1921.

143,013. MOPS. THE GEM HAMMOCK & FLY NET COMPANY, Milwaukee, Wis.
Filed August 9, 1920. Serial No. 135,924. PUBLISHED FEBRUARY 8, 1921.

143,014. BAKING-POWDER. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed August 3, 1920. Serial No. 135,750. PUBLISHED JANUARY 25, 1921.

143,015. NEGLIGÉES, DRESSING-SACKS, PAJAMAS, NIGHTGOWNS, CHEMISES, DRAWERS, AND CAMISOLES. THE GERBER UNDERGARMENT COMPANY, New York.
Filed August 19, 1920. Serial No. 136,255. PUBLISHED JANUARY 25, 1921.

143,016. CERTAIN NAMED MEDICINAL PREPARATIONS. JOHN E. GHRIST, Des Moines, Iowa.
Filed June 17, 1920. Serial No. 133,725. PUBLISHED JANUARY 25, 1921.

143,017.. WHEAT-FLOUR. GLADNEY MILLING COMPANY, Sherman, Tex.
Filed October 19, 1920. Serial No. 138,486. PUBLISHED FEBRUARY 1, 1921.

143,018. WHEAT-FLOUR. GLADNEY MILLING COMPANY, Sherman, Tex.
Filed October 19, 1920. Serial No. 138,487. PUBLISHED FEBRUARY 1, 1921.

143,019. WHEAT-FLOUR. GLADNEY MILLING COMPANY, Sherman, Tex.
Filed October 19, 1920. Serial No. 138,488. PUBLISHED FEBRUARY 1, 1921.

143,020. WHEAT-FLOUR. GLADNEY MILLING COMPANY, Sherman, Tex.
Filed October 19, 1920. Serial No. 138,489. PUBLISHED FEBRUARY 1, 1921.

143,021. CERTAIN ARTICLES OF CLOTHING. GLOBE SHIRT & OVERALL COMPANY, Abingdon, Ill.
Filed February 18, 1919. Serial No. 115,955. PUBLISHED FEBRUARY 8, 1921.

143,022. PAPER TOWELS, PAPER NAPKINS, PAPER WRAPPERS FOR DELICATESSEN-LUNCHES, AND TOILET-PAPER. GOLCO SANITARY SYSTEM, INC., Philadelphia, Pa.
Filed November 9, 1920. Serial No. 139,397. PUBLISHED FEBRUARY 1, 1921.

143,023. PAJAMAS AND NIGHTGOWNS. GOLDSTEIN KIRSHNER CO., New York, N. Y.
Filed October 21, 1920. Serial No. 138,636. PUBLISHED FEBRUARY 1, 1921.

143,024. PREPARATION FOR TREATMENT OF KIDNEY, LIVER, BLADDER, AND SEXUAL DEBILITY. JOHN GIBBS, Terre Haute, Ind.
Filed December 15, 1919. Serial No. 126,021. PUBLISHED JULY 6, 1920.

143,025. OLIVES. DIEGO GOMEZ, Seville, Spain.
Filed July 14, 1920. Serial No. 134,952. PUBLISHED FEBRUARY 8, 1921.

143,026. INCENSE. EVELINA F. GOMI, New York, N. Y.
Filed August 24, 1920. Serial No. 136,407. PUBLISHED JANUARY 25, 1921.

143,027. MEDICINE FOR A DISEASE OF THE EYE. JOSEPH GOZDAL, Yardley, Wash.
Filed June 7, 1920. Serial No. 133,355. PUBLISHED FEBRUARY 8, 1921.

143,028. BATHING-SHOES. WILLIAM GREILICH & SONS INC., Brooklyn, N. Y.
Filed September 18, 1920. Serial No. 137,321. PUBLISHED FEBRUARY 8, 1921.

143,029. CANNED PORK AND BEANS. GRIMES CANNING & PRESERVING COMPANY, Grimes, Iowa.
Filed November 23, 1920. Serial No. 140,031. PUBLISHED FEBRUARY 8, 1921.

143,030. CERTAIN ARTICLES OF CLOTHING. CLARENCE W. GROSNER, Washington, D. C.
Filed March 15, 1917. Serial No. 102,157. PUBLISHED FEBRUARY 8, 1921.

143,031. KNITTED JACKETS. GRUSHLAW & SICHEL, Philadelphia, Pa.
Filed October 22, 1920. Serial No. 138,676. PUBLISHED FEBRUARY 1, 1921.

143,032. LADIES' AND GENTLEMEN'S WATCHES, AND CLOCKS. GENEVA WATCH COMPANY, New York, N. Y.
Filed October 11, 1920. Serial No. 138,165. PUBLISHED FEBRUARY 1, 1921.

143,033. MACHINE-OIL. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed November 14, 1919. Serial No. 124,891. PUBLISHED FEBRUARY 8, 1921.

143,034. SILK, WOOLEN, COTTON, AND LINEN PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed April 30, 1920. Serial No. 131,868. PUBLISHED FEBRUARY 8, 1921.

143,035. CERTAIN NAMED MOTOR-CARS, MOTOR-CYCLES, CYCLE-CARS, AND PARTS THEREOF. A. HARPER SONS AND BEAN, LIMITED, Dudley, England.
Filed January 5, 1920. Serial No. 126,799. PUBLISHED FEBRUARY 8, 1921.

143,036. METAL COMPOSITION USED IN ELECTROTYPING. CHARLES HART, Jamaica, N. Y.
Filed October 9, 1920. Serial No. 138,126. PUBLISHED FEBRUARY 1, 1921.

143,037. CANDY. HAWLEY & HOOPS, New York, N. Y.
Filed November 29, 1920. Serial No. 140,382. PUBLISHED FEBRUARY 8, 1921.

143,038. CANDY. HAWLEY & HOOPS, New York, N. Y.
Filed November 29, 1920. Serial No. 140,383. PUBLISHED FEBRUARY 8, 1921.

143,039. CANNED VEGETABLES—NAMELY, CORN—AND CANNED APPLE SAUCE. HEART OF MAINE PACKING CO., Lewiston, Me.
Filed October 14, 1920. Serial No. 138,287. PUBLISHED FEBRUARY 8, 1921.

143,040. CANNED FRUITS—NAMELY, CHERRIES, APRICOTS, PEACHES, PEARS, AND PLUMS—AND CANNED VEGETABLES—NAMELY, TOMATOES. HERBERT PACKING CO. INC., San Jose, Calif.
Filed January 27, 1920. Serial No. 127,647. PUBLISHED FEBRUARY 22, 1921.

143,041. MEDICINAL PREPARATION FOR THE TREATMENT OF INTESTINAL TROUBLES AND NERVE AND RECONSTRUCTION TABLETS. FRANCISCO HERRERA, New York, N. Y., and Habana, Cuba.
Filed August 18, 1920. Serial No. 136,234. PUBLISHED JANUARY 25, 1921.

143,042. COTTON PIECE GOODS. HINCK & MULLER, New York, N. Y.
Filed May 25, 1920. Serial No. 132,926. PUBLISHED FEBRUARY 8, 1921.

143,043. SHOES OF LEATHER, LEATHER AND FABRIC, AND GLOVES OF LEATHER AND LEATHER AND FABRIC. HIRTH KRAUSE COMPANY, Rockford, Mich.
Filed October 5, 1920. Serial No. 137,939. PUBLISHED FEBRUARY 8, 1921.

143,044. CERTAIN NAMED TOILET PREPARATIONS. KATHRYN HOCHRACK, Bloomington, Ill.
Filed June 26, 1920. Serial No. 134,251. PUBLISHED JANUARY 25, 1921.

143,045. WHEAT-FLOUR. HOLLAND-O'NEAL MILLING CO., Springfield, Mo.
Filed November 17, 1920. Serial No. 139,745. PUBLISHED FEBRUARY 1, 1921.

143,046. HEALING AND SOOTHING SALVE FOR OUTER APPLICATION UPON CUTS, BURNS, BRUISES, AND SORES. W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y.
Filed August 17, 1920. Serial No. 136,195. PUBLISHED JANUARY 25, 1921.

143,047. CAKE-FLOUR. HOOSIER MILLING CO., INC., Indianapolis, Ind.
Filed October 16, 1920. Serial No. 138,385. PUBLISHED FEBRUARY 1, 1921.

143,048. DRAWING AND LETTERING INK. C. HOWARD HUNT PEN COMPANY, Camden, N. J.
Filed October 28, 1920. Serial No. 138,907. PUBLISHED FEBRUARY 8, 1921.

143,049. CANDY. HOLLINGSWORTH CANDY CO., Augusta, Ga.
Filed November 27, 1920. Serial No. 140,330. PUBLISHED FEBRUARY 8, 1921.

143,050. ELECTRIC GENERATORS AND MOTORS. HOWELL ELECTRIC MOTORS COMPANY, Howell, Mich.
Filed October 25, 1920. Serial No. 138,765. PUBLISHED FEBRUARY 1, 1921.

143,051. BUTTER. FRANK HURWITZ, Baltimore, Md.
Filed December 6, 1920. Serial No. 140,647. PUBLISHED FEBRUARY 8, 1921.

143,052. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. ILARIA BROTHERS, Newark, N. J.
Filed June 18, 1920. Serial No. 133,881. PUBLISHED JANUARY 25, 1921.

143,053. MEN'S, LADIES', BOYS', AND CHILDREN'S FABRIC GLOVES AND MITTENS. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind.
Filed October 1, 1920. Serial No. 137,810. PUBLISHED FEBRUARY 8, 1921.

143,054. PERIODICAL PUBLICATIONS ISSUED MONTHLY. INTERSTATE EMPLOYMENT SYSTEM, Denver, Colo.
Filed April 29, 1920. Serial No. 131,793. PUBLISHED FEBRUARY 8, 1921.

143,055. CERTAIN NAMED MEDICINAL PREPARATION. R. GAINSFORTH JAMES, Detroit, Mich.
Filed July 23, 1920. Serial No. 135,327. PUBLISHED FEBRUARY 1, 1921.

143,056. CERTAIN NAMED MEDICINAL PREPARATION. JOSÉ DE JESUS, New York, N. Y.
Filed July 13, 1920. Serial No. 134,883. PUBLISHED FEBRUARY 8, 1921.

143,057. NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS AND SYRUP COLORS AND FLAVORS USED IN THE PREPARATION THEREOF. KAMM CO., Mishawaka, Ind.
Filed October 5, 1920. Serial No. 137,943. PUBLISHED FEBRUARY 8, 1921.

143,058. OVERALLS. KEGAN GRACE CO., Baltimore, Md.
Filed April 16, 1920. Serial No. 131,220. PUBLISHED FEBRUARY 8, 1921.

143,059. SALT. ALEX. KERR BROS. & CO., Philadelphia, Pa.
Filed February 16, 1920. Serial No. 128,447. PUBLISHED JANUARY 25, 1921.

143,060. CERTAIN DRAWING INSTRUMENTS. KEUFFEL & ESSER COMPANY, Hoboken, N. J.
Filed January 6, 1920. Serial No. 126,865. PUBLISHED DECEMBER 28, 1920.

143,061. CERTAIN DRAWING INSTRUMENTS. KEUFFEL & ESSER COMPANY, Hoboken, N. J.
Filed January 6, 1920. Serial No. 126,866. PUBLISHED DECEMBER 28, 1920.

143,062. CHEMICAL PREPARATION FOR THE PURPOSE OF MAKING HARD WATER SOFT. KIRKMAN & SON, Brooklyn, N. Y.
Filed August 19, 1920. Serial No. 136,271. PUBLISHED JANUARY 25, 1921.

143,063. SEMIPASTE PAINT. KNIGHT & WALL COMPANY, Tampa, Fla.
Filed September 23, 1920. Serial No. 137,527. PUBLISHED FEBRUARY 1, 1921.

143,064. PARTIALLY-PRINTED FORMS, INSTRUCTION-BLANKS, AND ACCOUNT-BOOKS. THE KESSOL ACCOUNT BOOK COMPANY, Boston, Mass.
Filed November 15, 1920. Serial No. 139,672. PUBLISHED FEBRUARY 1, 1921.

143,065. DYED FUR. AARON KOSOFSKY, New York, N. Y.
Filed November 30, 1920. Serial No. 140,465. PUBLISHED FEBRUARY 8, 1921.

143,066. WEDDING-RINGS. LEBOLT & COMPANY, Chicago, Ill.
Filed November 26, 1920. Serial No. 140,186. PUBLISHED FEBRUARY 1, 1921.

143,067. REFRACTORY CEMENT FOR HIGH-TEMPERATURE USES. LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo.
Filed October 11, 1920. Serial No. 138,171. PUBLISHED FEBRUARY 8, 1921.

143,068. SALVE. THEODORE V. LEGROS, Grafton, W. Va.
Filed July 8, 1920. Serial No. 134,711. PUBLISHED FEBRUARY 1, 1921.

143,069. NON-ABRASIVE ABSORBENT CLEANSING AND POLISHING BASE. LELAND VERANUS SLAIGHT, New York, N. Y., assignor, by mesne assignments, to Cell-u-base Corporation, a Corporation of Delaware.
Filed October 1, 1920. Serial No. 137,817. PUBLISHED FEBRUARY 1, 1921.

143,070. MEDICINE APPLIED EXTERNALLY TO THE HUMAN BODY TO RELIEVE PAIN. ALBERT J. LEO, Brooklyn, N. Y.
Filed August 5, 1920. Serial No. 135,816. PUBLISHED JANUARY 25, 1921.

143,071. SYRUP FOR COUGHS, COLDS, BRONCHITIS, CATARRH, WHOOPING-COUGH, CROUP, ASTHMA, AND INFLUENZA. PHILIAS E. LE SIEUR, Boston, Mass.
Filed June 24, 1920. Serial No. 134,135. PUBLISHED JANUARY 25, 1921.

143,072. MONTHLY PUBLICATION. THE LINE-A-TIME MFG. CO. INC., Rochester, N. Y.
Filed September 25, 1920. Serial No. 137,619. PUBLISHED FEBRUARY 8, 1921.

143,073. SOLDERING-FLUX AND RADIATOR-SOLDERING SOLUTION. LIQUID SOLDER COMPANY, Fort Worth, Tex.
Filed June 24, 1920. Serial No. 134,131. PUBLISHED FEBRUARY 1, 1921.

143,074. CAKES. LOOSE-WILES BISCUIT COMPANY, Chicago, Ill.
Filed November 12, 1920. Serial No. 139,582. PUBLISHED FEBRUARY 1, 1921.

143,075. DRESS AND NEGLIGÉE SHIRTS. MARCUS-CASPER CORP., Philadelphia, Pa.
Filed October 16, 1920. Serial No. 138,392. PUBLISHED FEBRUARY 8, 1921.

143,076. CERTAIN NAMED CHEMICALS, DYES, AND DYESTUFFS. MARDEN, ORTH & HASTINGS CORPORATION, New York, N. Y.; Boston, Mass.; Chicago, Ill.; Philadelphia, Pa.; Cleveland, Ohio; Seattle, Wash., and San Francisco, Calif.
Filed November 26, 1918. Serial No. 114,378. PUBLISHED FEBRUARY 8, 1921.

143,077. CERTAIN NAMED MEDICINAL PREPARATIONS. FREDERICK S. MARDON, New York, N. Y.
Filed April 14, 1920. Serial No. 131,120. PUBLISHED JANUARY 25, 1921.

143,078. DYESTUFFS—NAMELY, MALACHITE-GREEN IN ITS VARIOUS FORMS, BRILLIANT GREEN, AND ACID GREEN G G. THE MARIETTA REFINING CO., Marietta, Ohio.
Filed April 26, 1920. Serial No. 131,643. PUBLISHED JANUARY 25, 1921.

143,079. LIQUID TONIC FOR USE IN THE TREATMENT OF NERVOUS DISORDERS AND INSOMNIA. JAMES FRANCIS MARTIN, Columbus, Ohio.
Filed July 19, 1920. Serial No. 135,155. PUBLISHED JANUARY 25, 1921.

143,080. TABLE BEVERAGE COMPOSED OF MALT AND FIGS AND FLAVORED WITH COFFEE. Dr. OTTO MAUSERT, San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,578. PUBLISHED FEBRUARY 1, 1921.

143,081. STILLINGIA AND LOBELIA COMPOUND USED IN COUGHS, COLDS, BRONCHITIS, CROUP, &c. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,492. PUBLISHED JANUARY 25, 1921.

143,082. EFFERVESCENT SALT USED IN THE TREATMENT OF MIGRAINE, AUTO-INTOXICATION, AND RELATED DISORDERS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,493. PUBLISHED JANUARY 25, 1921.

143,083. SOURWOOD COMPOUND, BEING A DIURETIC CORDIAL USED IN URINARY AND KIDNEY DISORDERS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,484. PUBLISHED JANUARY 25, 1921.

143,084. COMPOUND OF PHYTOLACCA USED IN THE TREATMENT OF SORE THROAT, TONSILLITIS, AND RELATED AILMENTS. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,487. PUBLISHED JANUARY 25, 1921.

143,085. CERTAIN NAMED MEDICINAL PREPARATION. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,488. PUBLISHED JANUARY 25, 1921.

143,086. COMPOUND OF HYPOPHOSPHITES USED AS A TONIC. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,494. PUBLISHED JANUARY 25, 1921.

143,087. CERTAIN NAMED MEDICINAL PREPARATION. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,495. PUBLISHED JANUARY 25, 1921.

143,088. IRON-SALICYLATE COMPOUND FOR ADMINISTRATION IN RHEUMATIC AFFECTIONS AND AS A TONIC. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,496. PUBLISHED JANUARY 25, 1921.

143,089. COMPOUND OF BROMIDS USED AS A NERVE-SEDATIVE. THE WILLIAM S. MERRELL COMPANY, Cincinnati, Ohio.
Filed July 28, 1920. Serial No. 135,513. PUBLISHED JANUARY 25, 1921.

143,090. TWINES MADE OF COTTON, SILK, RAMIE, LINEN, SPUN SILK, AND ARTIFICIAL SILK AND USED MORE PARTICULARLY IN CONNECTION WITH TEXTILE-WEAVING. MEYER & RASMUSSEN, INC., New York, N. Y.
Filed August 11, 1920. Serial No. 135,997. PUBLISHED DECEMBER 14, 1920.

143,091. RUBBER SPONGES. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed October 26, 1920. Serial No. 138,821. PUBLISHED FEBRUARY 1, 1921.

143,092. SILK GOODS AND MIXTURES OF SILK AND LINEN IN THE PIECE. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed January 19, 1920. Serial No. 127,310. PUBLISHED FEBRUARY 8, 1921.

143,093. CREPE IN THE PIECE MADE OF SILK AND OF A MIXTURE OF SILK AND COTTON. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed March 9, 1920. Serial No. 129,468. PUBLISHED FEBRUARY 8, 1921.

143,094. SHOES MADE OF LEATHER, FABRICS, AND CLOTH AND COMBINATIONS OF THESE MATERIALS. I. MILLER AND SONS, INC., Brooklyn, N. Y.
Filed October 4, 1920. Serial No. 137,888. PUBLISHED FEBRUARY 8, 1921.

143,095. FIELD, CLOVER, AND GRASS SEED. MILWAUKEE SEED CO., Milwaukee, Wis.
Filed October 15, 1920. Serial No. 138,329. PUBLISHED FEBRUARY 1, 1921.

143,096. WIRE BED AND CHAIR MATTRESS AND CUSHION SPRINGS. MILWAUKEE WOVEN WIRE WORKS, Milwaukee, Wis.
Filed November 21, 1919. Serial No. 125,161. PUBLISHED FEBRUARY 8, 1921.

143,097. SALVE. MISTO MANUFACTURING CO., Kokomo, Ind.
Filed July 13, 1920. Serial No. 134,903. PUBLISHED JANUARY 25, 1921.

143,098. FERTILIZERS. COE MORTIMER CO., New York, N. Y.
Filed February 7, 1920. Serial No. 128,103. PUBLISHED FEBRUARY 8, 1921.

143,099. COMPOUND FOR THE TREATMENT OF THE SCALP AND HAIR-TONIC. LAVANIA P. MOULTRIE, Wildwood, N. J.
Filed August 9, 1920. Serial No. 135,936. PUBLISHED JANUARY 25, 1921.

143,100. ANTISEPTIC MOUTH-WASH AND SCALP REMEDY. MULHENS & KROPFF, INCORPORATED, New York, N. Y.
Filed July 29, 1920. Serial No. 135,566. PUBLISHED JANUARY 25, 1921.

143,101. WOMEN'S AND CHILDREN'S DRESSES. ALEXANDRA MUNROE, Los Angeles, Calif.
Filed October 28, 1920. Serial No. 138,918. PUBLISHED FEBRUARY 8, 1921.

143,102. PREPARATION FOR THE TREATMENT OF GALL-STONES. HOWARD M. MURPHY, Philadelphia, Pa.
Filed June 30, 1920. Serial No. 134,426. PUBLISHED FEBRUARY 8, 1921.

143,103. ANNUAL DIRECTORY AND REFERENCE-BOOK COVERING THE MINERAL-OIL INDUSTRY. FRANK E. MURRAY, Chicago, Ill.
Filed September 13, 1920. Serial No. 137,134. PUBLISHED FEBRUARY 8, 1921.

143,104. LUBRICATING OILS AND GREASES. NAAMLOOZE VENNOOTSCHAP OLIEFABRIEKEN INSULINDE, Amsterdam, Netherlands.
Filed August 7, 1920. Serial No. 135,899. PUBLISHED FEBRUARY 8, 1921.

143,105. FINGER-RINGS. CHARLES B. NAMIOT, New York, N. Y.
Filed November 23, 1920. Serial No. 140,056. PUBLISHED FEBRUARY 1, 1921.

143,106. PREPARATION FOR THE TREATMENT OF HEADACHE, NEURALGIA, COLDS, LA GRIPPE, RHEUMATIC PAINS, AND SCIATICA. RISDEN BENNETT NAPIER, Rockingham, N. C.
Filed July 15, 1920. Serial No. 135,013. PUBLISHED JANUARY 25, 1921.

143,107. FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed July 7, 1920. Serial No. 134,653. PUBLISHED FEBRUARY 1, 1921.

143,108. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed November 26, 1920. Serial No. 140,196. PUBLISHED FEBRUARY 8, 1921.

143,109. SILKS IN THE BULK AND IN THE PIECE. NATIONAL MERCANTILE CORPORATION OF CALIFORNIA, San Francisco, Calif., assignors to Matsumoto Trading Company, Incorporated, a Corporation of California.
Filed September 1, 1920. Serial No. 136,716. PUBLISHED FEBRUARY 8, 1921.

143,110. RING-TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed September 11, 1920. Serial No. 137,090. PUBLISHED FEBRUARY 22, 1921.

143,111. TANKS. NATIONAL TANK AND STEEL COMPANY, Wichita Falls, Tex.
Filed July 2, 1920. Serial No. 134,521. PUBLISHED FEBRUARY 8, 1921.

143,112. SCRATCH FOOD, CHICK FOOD, MIXED-GRAIN FEEDS FOR POULTRY, AND POULTRY MASH FEEDS. NEIL BROTHERS GRAIN CO., Spokane, Wash.
Filed July 6, 1920. Serial No. 134,597. PUBLISHED FEBRUARY 8, 1921.

143,113. FRESH CITRUS FRUITS. NELSON & COMPANY, Oviedo, Fla.
Filed November 23, 1920. Serial No. 140,057. PUBLISHED FEBRUARY 8, 1921.

143,114. FRESH CITRUS FRUITS. NELSON & COMPANY, Oviedo, Fla.
Filed November 23, 1920. Serial No. 140,058. PUBLISHED FEBRUARY 8, 1921.

143,115. CERTAIN NAMED FURNITURE. M. L. NELSON FURNITURE CO., Chicago, Ill.
Filed April 17, 1920. Serial No. 131,280. PUBLISHED FEBRUARY 8, 1921.

143,116. OVERCOATS, COATS, VESTS, TROUSERS, AND PANTS. NEU-PAL MANUFACTURING COMPANY, New York, N. Y.
Filed August 3, 1920. Serial No. 135,761. PUBLISHED FEBRUARY 8, 1921.

143,117. CLOTHING—NAMELY, MEN'S AND BOYS' DRESS, NEGLIGÉE, AND WORK SHIRTS AND BOYS' BLOUSES. NEW ERA SHIRT CO., St. Louis, Mo.
Filed September 29, 1920. Serial No. 137,743. PUBLISHED FEBRUARY 8, 1921.

143,118. FACE-CREAM. NEW GOLD PHARMACAL CO., Chicago, Ill.
Filed April 17, 1920. Serial No. 131,281. PUBLISHED JANUARY 25, 1921.

143,119. NEWSPAPERS. NEWS SYNDICATE CO., INC., New York, N. Y.
Filed November 12, 1920. Serial No. 139,593. PUBLISHED FEBRUARY 8, 1921.

143,120. CERTAIN NAMED MEDICINES AND PHARMACEUTICAL PREPARATIONS. SUMIZO NISHIGUCHI, Kure, Hiroshima, Japan.
Filed December 12, 1919. Serial No. 125,905. PUBLISHED JANUARY 25, 1921.

143,121. FRESH CITRUS FRUIT. NOCATEE CITRUS GROWERS' ASSOCIATION, Nocatee, Fla.
Filed November 23, 1920. Serial No. 140,059. PUBLISHED FEBRUARY 8, 1921.

143,122. FRUIT AND VEGETABLE EXTRACTS AND FLAVORS. OKAY EXTRACT CO., New York, N. Y.
Filed July 19, 1919. Serial No. 120,713. PUBLISHED JANUARY 18, 1921.

143,123. PEPPERMINT-FLAVORED CANDY. O-PEE-CHEE GUM CO., LIMITED, London, Ontario, Canada.
Filed September 19, 1919. Serial No. 122,908. PUBLISHED FEBRUARY 8, 1921.

143,124. MILK, CREAM, CONDENSED MILK, AND BUTTERMILK. ORANGE COUNTY MILK ASSOCIATION, New York, N. Y.
Filed November 23, 1920. Serial No. 140,061. PUBLISHED FEBRUARY 8, 1921.

143,125. BUSHINGS USED BETWEEN MOVING OR BEARING PARTS. OREGON BRASS WORKS, Portland, Oreg.
Filed November 9, 1920. Serial No. 139,415. PUBLISHED FEBRUARY 8, 1921.

143,126. KID. OSCAR SCHERER & BRO., INC., New York, N. Y.
Filed October 20, 1920. Serial No. 138,608. PUBLISHED FEBRUARY 8, 1921.

143,127. PIECE GOODS OF WINDOW-SHADE CLOTHS OF SIZED AND PAINTED FABRICS. PABST & COMPANY, INC., Philadelphia, Pa.
Filed September 15, 1920. Serial No. 137,234. PUBLISHED FEBRUARY 8, 1921.

143,128. MEDICINAL PLASTER FOR THE TREATMENT OF HEADACHES AND NEURALGIAS. PAN-AMERICAN PHARMACEUTICAL CO. LTD., Santa Rita, N. Mex.
Filed July 13, 1920. Serial No. 134,916. PUBLISHED JANUARY 25, 1921.

143,129. MEDICINE RECOMMENDED FOR STOMACH AND INTESTINAL DISORDERS. PAN-AMERICAN CHEMICAL COMPANY, Altoona, Pa.
Filed June 22, 1920. Serial No. 134,032. PUBLISHED FEBRUARY 8, 1921.

143,130. TOILET PREPARATIONS—NAMELY, FACE-POWDER, ROUGE, TALCUM POWDER, BLEMISH-BLEACH, AND COLD-CREAM. THE PARIS TOILET COMPANY, Paris, Tenn.
Filed March 22, 1920. Serial No. 130,057. PUBLISHED DECEMBER 21, 1920.

143,131. MOVING-PICTURE FILMS. PEACOCK PRODUCTIONS, INC., Tulsa, Okla.
Filed October 12, 1920. Serial No. 138,231. PUBLISHED FEBRUARY 1, 1921.

143,132. BOYS' AND MISSES' HOSIERY. PENNSYLVANIA KNITTING MILLS COMPANY, Spring Grove, Pa.
Filed October 20, 1920. Serial No. 138,590. PUBLISHED FEBRUARY 1, 1921.

143,133. COLD-CREAM AND APPETIZING TONIC. THE PENSLAR COMPANY, Detroit, Mich.
Filed June 19, 1920. Serial No. 133,935. PUBLISHED FEBRUARY 8, 1921.

143,134. MEDICINE USED IN THE TREATMENT OF DYSPEPSIA. BENJAMIN J. PERKINS, Memphis, Tenn.
Filed July 16, 1920. Serial No. 135,062. PUBLISHED JANUARY 25, 1921.

143,135. PERFUMES, COSMETICS AND SKIN-LOTIONS. LOUIS PHILIPPE, New York, N. Y.
Filed August 30, 1920. Serial No. 136,644. PUBLISHED FEBRUARY 1, 1921.

143,136. CERTAIN NAMED TOILET PREPARATIONS. SALVATORE CARL PHILIPPINO, State College, Pa.
Filed July 9, 1920. Serial No. 134,757. PUBLISHED FEBRUARY 8, 1921.

143,137. SHOVELS AND SCOOPS. PITTSBURGH SHOVEL COMPANY, Leechburg and Pittsburgh, Pa.
Filed November 18, 1920. Serial No. 139,817. PUBLISHED FEBRUARY 8, 1921.

143,138. MEDICINAL PLASTER FOR THE ALLEVIATION OF PNEUMONIA, BRONCHITIS, PLEURISY, PHTHISIS, AND WHOOPING-COUGH. PNEUMO PHTHYSINE CHEM. MFG. CO., Chicago, Ill.
Filed August 21, 1920. Serial No. 136,338. PUBLISHED JANUARY 25, 1921.

143,139. PREPARATION WHICH BEAUTIFIES THE HAIR AND AIDS ITS GROWTH. E. G. PRICE, Reidsville, N. C.
Filed June 29, 1920. Serial No. 134,385. PUBLISHED FEBRUARY 8, 1921.

143,140. SOAPS. PRICHARD & CONSTANCE, INC., New York, N. Y.
Filed October 19, 1920. Serial No. 138,511. PUBLISHED FEBRUARY 1, 1921.

143,141. MEDICAL COMPOUND IN PILL FORM USED FOR THE BOWELS. PURITAN DRUG COMPANY, Boston, Mass.
Filed August 6, 1920. Serial No. 135,861. PUBLISHED FEBRUARY 1, 1921.

143,142. OATMEAL. PURITY OATS COMPANY, BRANCH OF AMERICAN HOMINY COMPANY, Davenport and Keokuk, Iowa.
Filed April 22, 1920. Serial No. 131,500. PUBLISHED FEBRUARY 8, 1921.

143,143. CRUSHED OATS, WHEAT-HEARTS, WHEAT-FLAKES, OATMEAL, HOMINY, CORNMEAL, GRAHAM FLOUR, AND WHEAT-FLOUR. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed October 18, 1920. Serial No. 138,454. PUBLISHED FEBRUARY 1, 1921.

143,144. LIVE POULTRY, ESPECIALLY SUCH AS SELECTED FOR BREEDING STOCK, DAY-OLD CHICKS, AND HATCHING-EGGS. QUALITY POULTRY FARM, Gresham, Oreg.
Filed November 20, 1919. Serial No. 125,128. PUBLISHED FEBRUARY 8, 1921.

143,145. CERTAIN NAMED TOILET PREPARATIONS. RADIOR CO. LTD. OF LONDON, New York, N. Y.
Filed November 24, 1919. Serial No. 125,247. PUBLISHED JANUARY 25, 1921.

143,146. HAIR-GROWING PREPARATION. Mrs. MACK F. REID, Brinkley, Ark.
Filed September 3, 1920. Serial No. 136,811. PUBLISHED FEBRUARY 1, 1921.

143,147. FOODS, PARTICULARLY CONFECTIONERY—NAMELY, LOLLIPOPS. REVERE CONFECTIONERY AND POP CORN WORKS, INC., Framingham Center, Mass.
Filed November 10, 1920. Serial No. 139,478. PUBLISHED FEBRUARY 8, 1921.

143,148. WRITING FLUID. REYNOLDS BROS., Scranton, Pa.
Filed August 6, 1920. Serial No. 135,865. PUBLISHED FEBRUARY 8, 1921.

143,149. CERTAIN NAMED TOILET PREPARATIONS. RIMANÉ, INCORPORATED, New York, N. Y.
Filed May 7, 1920. Serial No. 132,148. PUBLISHED FEBRUARY 8, 1921.

143,150. MINERAL WATERS. RUBINAT, Barcelona, Spain.
Filed September 15, 1919. Serial No. 122,730. PUBLISHED FEBRUARY 8, 1921.

143,151. CERTAIN NAMED WEBS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed July 16, 1920. Serial No. 135,067. PUBLISHED FEBRUARY 8, 1921.

143,152. CERTAIN NAMED WEBS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed July 16, 1920. Serial No. 135,064. PUBLISHED FEBRUARY 8, 1921.

143,153. CERTAIN NAMED MEDICINAL PREPARATION. ED. RUSSELL, Laredo, Tex.
Filed April 2, 1920. Serial No. 130,556. PUBLISHED JANUARY 25, 1921.

143,154. PREPARATION FOR THE TREATMENT OF RHEUMATISM. FRANK RUSSO, Rivesville, W. Va.
Filed July 27, 1920. Serial No. 135,456. PUBLISHED JANUARY 25, 1921.

143,155. THERMOSTATIC CONTROLLERS FOR WATER-HEATERS. B. RYAN, New York, N. Y.
Filed October 22, 1920. Serial No. 138,691. PUBLISHED FEBRUARY 8, 1921.

143,156. HAIR-RESTORER. RYMIL CHEMICAL COMPANY, Indianapolis, Ind.
Filed July 14, 1920. Serial No. 134,980. PUBLISHED JANUARY 25, 1921.

143,157. MOUTH-WASHES. SALZINCO COMPANY, Philadelphia, Pa.
Filed July 24, 1920. Serial No. 135,386. PUBLISHED JANUARY 25, 1921.

143,158. GARDEN, FIELD, AND FLOWER SEEDS. JOHN A. SALZER SEED CO., La Crosse, Wis.
Filed December 30, 1919. Serial No. 126,660. PUBLISHED FEBRUARY 8, 1921.

143,159. PAPETERIES, WRITING-PAPER, TYPEWRITER-PAPER, CORRESPONDENCE-PAPER, WRITING-TABLETS, AND MAILING-ENVELOPS. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed October 15, 1920. Serial No. 138,343. PUBLISHED FEBRUARY 1, 1921.

143,160. WHEELED VEHICLES OTHER THAN BICYCLES. SAMSON TRACTOR COMPANY, Janesville, Wis.
Filed October 18, 1920. Serial No. 138,459. PUBLISHED FEBRUARY 1, 1921.

143,161. CANNED FRUITS AND CANNED VEGETABLES. SAN BENITO COUNTY CANNING CO., Hollister, Calif.
Filed November 23, 1920. Serial No. 140,077. PUBLISHED FEBRUARY 8, 1921.

143,162. METAL CANS OR RECEPTACLES FOR WASTE MATERIAL. SANITARY RECEIVER COMPANY INC., Dunkirk, N. Y.
Filed December 24, 1920. Serial No. 141,507. PUBLISHED FEBRUARY 8, 1921.

143,163. CERTAIN NAMED TOILET PREPARATIONS. P. J. SCHUMACHER CO., INC., New York, N. Y.
Filed July 26, 1920. Serial No. 135,435. PUBLISHED JANUARY 25, 1921.

143,164. TONIC AIDING DIGESTION, NERVOUSNESS, IMPARTING STRENGTH TO THE SYSTEM, AND A LAXATIVE. SCRANTON DISTRIBUTING AND MANUFACTURING COMPANY, Scranton, Pa.
Filed July 30, 1920. Serial No. 135,621. PUBLISHED JANUARY 25, 1921.

143,165. CORSETS. SEARS, ROEBUCK AND COMPANY, Chicago, Ill.
Filed October 30, 1920. Serial No. 139,007. PUBLISHED FEBRUARY 8, 1921.

143,166. CERTAIN NAMED CHEMICALS, MEDICINAL AND PHARMACEUTICAL PREPARATIONS. SERVUS GROCERY PRODUCTS CORPORATION, New York, N. Y.
Filed June 22, 1920. Serial No. 134,036. PUBLISHED JANUARY 25, 1921.

143,167. CERTAIN NAMED CHEMICAL PREPARATIONS. PORTER W. SHIMER, Easton, Pa.
Filed July 9, 1920. Serial No. 134,758. PUBLISHED FEBRUARY 1, 1921.

143,168. LUMP CALCIUM CYANAMID. PORTER W. SHIMER, Easton, Pa.
Filed July 9, 1920. Serial No. 134,759. PUBLISHED JANUARY 25, 1921.

143,169. WHEAT-FLOUR. BECH VAN SICLEN & CO., INC., San Francisco, Calif.
Filed October 5, 1920. Serial No. 137,912. PUBLISHED FEBRUARY 1, 1921.

143,170. LADIES' AND MEN'S HATS, CAPS, AND BONNETS. THE SMART MILLINERY SHOP, Memphis, Tenn.
Filed September 29, 1920. Serial No. 137,747. PUBLISHED FEBRUARY 8, 1921.

143,171. OFFSET SLIP-JOINT PLIERS. THE H. D. SMITH & COMPANY, Plantsville, Conn.
Filed December 13, 1920. Serial No. 141,042. PUBLISHED FEBRUARY 8, 1921.

143,172. SALVE FOR CERTAIN NAMED AILMENTS. R. McD. SMITH & SONS, Louisiana, Mo.
Filed July 7, 1920. Serial No. 134,669. PUBLISHED FEBRUARY 1, 1921.

143,173. PERFUMES, RICE POWDERS, COLOGNE-WATERS, DENTRIFICES, HAIR-LOTIONS, POMADE, MUSTACHE-WAX, AND TINCTURES FOR THE HAIR. SOCIÉTÉ ANONYME PARFUMERIE RAMSÈS, Paris, France.
Filed May 18, 1920. Serial No. 132,611. PUBLISHED JANUARY 25, 1921.

143,174. CERTAIN NAMED OILS AND GREASES. SOCIETÉ ANONYME A. ANDRÉ FILS, Paris, France.
Filed May 10, 1920. Serial No. 132,276. PUBLISHED FEBRUARY 8, 1921.

143,175. CERTAIN NAMED MOTOR-CARS, VESSELS, BOATS, AND RUDDERS. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,502. PUBLISHED FEBRUARY 8, 1921.

143,176. CERTAIN MACHINES FOR WORKING ON TISSUE, PAPER, LEATHER, PASTEBOARD, AND CLOTH. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed October 28, 1920. Serial No. 138,929. PUBLISHED FEBRUARY 1, 1921.

143,177. PILLS OF ESSENCE OF TAR. SOC. PRODOTTI CHIMICO-FARMACEUTICI A. BERTELLI & C., Milan, Italy.
Filed October 18, 1919. Serial No. 123,920. PUBLISHED JANUARY 25, 1921.

143,178. WORK-SHIRTS, OVERALLS, DRESS-SHIRTS, AND PLAY-SHIRTS. THE SPAIDE SHIRT COMPANY, Butler, Pa.
Filed October 16, 1920. Serial No. 138,413. PUBLISHED FEBRUARY 8, 1921.

143,179. LAMP CHIMNEYS AND RESERVOIRS. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed November 6, 1920. Serial No. 139,317. PUBLISHED FEBRUARY 1, 1921.

143,180. LEAD-PENCILS. STANDARD PENCIL CO., St. Louis, Mo.
Filed October 18, 1920. Serial No. 138,460. PUBLISHED FEBRUARY 1, 1921.

143,181. VINEGAR. SELO M. STARKEY, New Brunswick, N. J.
Filed November 24, 1920. Serial No. 140,149. PUBLISHED FEBRUARY 8, 1921.

143,182. TOOTH-POWDER. R. J. STRASENBURGH COMPANY, Rochester, N. Y.
Filed July 7, 1920. Serial No. 134,668. PUBLISHED JANUARY 25, 1921.

143,183. PLAY-SUITS, ROMPERS, CHILDREN'S PANTS, OVERALLS, SHIRTS, AND BLOUSES. LEVI STRAUSS & CO., San Francisco, Calif.
Filed August 24, 1920. Serial No. 136,436. PUBLISHED FEBRUARY 8, 1921.

143,184. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed October 9, 1920. Serial No. 138,141. PUBLISHED FEBRUARY 1, 1921.

143,185. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed October 9, 1920. Serial No. 138,142. PUBLISHED FEBRUARY 1, 1921.

143,186. THERMOMETERS. H. M. STUNZ, Kansas City, Mo.
Filed November 1, 1920. Serial No. 139,060. PUBLISHED FEBRUARY 1, 1921.

143,187. SILK PIECE GOODS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed November 19, 1919. Serial No. 125,093. PUBLISHED FEBRUARY 8, 1921.

143,188. PHARMACEUTICAL PREPARATION FOR THE TREATMENT OF THE TOBACCO HABIT. MORTIMER H. SWAFFORD, Chicago, Ill.
Filed June 26, 1920. Serial No. 134,275. PUBLISHED JANUARY 25, 1921.

143,189. PETROLATUM. STANDARD OIL COMPANY, Bayonne, N. J.
Filed November 6, 1920. Serial No. 139,322. PUBLISHED MARCH 1, 1921.

143,190. TALCUM POWDER. TALCUM PUFF COMPANY, Brooklyn, N. Y.
Filed September 14, 1920. Serial No. 137,189. PUBLISHED FEBRUARY 8, 1921.

143,191. TOILET PREPARATIONS. TALCUM PUFF CO., Brooklyn, N. Y.
Filed July 8, 1920. Serial No. 134,735. PUBLISHED JANUARY 25, 1921.

143,192. MOPS, OIL-MOPS, AND COTTON FLOOR-BRUSHES. TATE MANUFACTURING COMPANY, Boston, Mass.
Filed February 9, 1920. Serial No. 128,176. PUBLISHED FEBRUARY 8, 1921.

143,193. LIQUID HAIR-TONIC. ROBERT TARDONE & SON, New York, N. Y.
Filed July 31, 1920. Serial No. 135,673. PUBLISHED JANUARY 25, 1921.

143,194. TRUNKS. C. A. TAYLOR TRUNK WORKS, INC., Chicago, Ill.
Filed July 24, 1920. Serial No. 135,380. PUBLISHED FEBRUARY 8, 1921.

143,195. WHEAT-FLOUR. THEOPOLD-REID CO., Faribault, Minn.
Filed March 13, 1917. Serial No. 102,129. PUBLISHED JULY 10, 1917.

143,196. CANNED SALMON. THLINKET PACKING COMPANY, Portland, Oreg., and Funter Bay, Territory of Alaska.
Filed September 24, 1918. Serial No. 113,334. PUBLISHED FEBRUARY 8, 1921.

143,197. LIQUID MATERIAL TO BE MIXED WITH CEMENT TO HASTEN FINAL SET OF CONSTRUCTION-WORK. TOCH BROTHERS, New York, N. Y.
Filed June 23, 1920. Serial No. 134,099. PUBLISHED FEBRUARY 8, 1921.

143,198. CERTAIN TOOLS AND MACHINERY FOR WORKING METAL. THE TOOL & AUTO PRODUCTS COMPANY, Cleveland, Ohio.
Filed May 1, 1920. Serial No. 131,930. PUBLISHED FEBRUARY 8, 1921.

143,199. CULTIVATORS. TORO MANUFACTURING COMPANY, Minneapolis, Minn.
Filed December 6, 1920. Serial No. 140,686. PUBLISHED FEBRUARY 8, 1921.

143,200. WHEAT-FLOUR. TRENTON MILLING COMPANY, Trenton, Ill.
Filed November 8, 1920. Serial No. 139,383. PUBLISHED FEBRUARY 1, 1921.

143,201. RECEPTACLES — VIZ., CIGAR-BOXES, CANDY-BOXES, DISPLAY-BOXES FOR PENCILS AND FOUNTAIN-PENS. U. S. PLASTIC ART WORKS INC., Brooklyn, N. Y.
Filed April 1, 1920. Serial No. 130,487. PUBLISHED FEBRUARY 15, 1921.

143,202. BOOTS AND SHOES MADE WHOLLY OR IN PART OF FABRIC AND RUBBER. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed October 20, 1920. Serial No. 138,609. PUBLISHED FEBRUARY 1, 1921.

143,203. CHAINS. UNIVERSAL CHAIN CO. INC., Stroudsburg, Pa.
Filed November 1, 1920. Serial No. 139,063. PUBLISHED FEBRUARY 1, 1921.

143,204. APPLE CIDER, GINGER-ALE, ROOT-BEER, SARSAPARILLA, CREAM, LEMON, AND OTHER SOFT-DRINK BEVERAGES. CHARLES JOSEPH VATH, San Jose, Calif.
Filed November 6, 1920. Serial No. 139,332. PUBLISHED FEBRUARY 8, 1921.

143,205. WOOD-PRESERVING COMPOUND. GEORGIA VITA LIGNO CO., Brunswick, Ga.
Filed July 13, 1920. Serial No. 134,890. PUBLISHED FEBRUARY 1, 1921.

143,206. OLEOMARGARIN. FOX RIVER BUTTER COMPANY, INC., New York, N. Y.
Filed November 17, 1920. Serial No. 139,740. PUBLISHED FEBRUARY 1, 1921.

143,207. HAIR-GROWER. ANGELINE E. WAGNER, Shreveport, La.
Filed August 16, 1920. Serial No. 136,179. PUBLISHED JANUARY 25, 1921.

143,208. BITUMINOUS PAINT. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed August 27, 1920. Serial No. 136,577. PUBLISHED FEBRUARY 1, 1921.

143,209. BITUMINOUS PAINT. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed August 27, 1920. Serial No. 136,578. PUBLISHED FEBRUARY 1, 1921.

143,210. BITUMINOUS PAINT. WAILES DOVE BITUMASTIC LIMITED, Newcastle-upon-Tyne, England.
Filed August 27, 1920. Serial No. 136,579. PUBLISHED FEBRUARY 1, 1921.

143,211. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE, PORTABLE CIGARETTE-MAKERS, AND CIGARETTE-TUBES. WALDES & Co., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,091. PUBLISHED FEBRUARY 8, 1921.

143,212. TOILET PREPARATIONS. Mme. C. J. WALKER MFG. CO., Indianapolis, Ind
Filed February 17, 1920. Serial No. 128,536. PUBLISHED FEBRUARY 1, 1921.

143,213. CERTAIN NAMED MEDICINAL PREPARATION. THOMAS A. WALSH, Yonkers, N. Y.
Filed August 7, 1920. Serial No. 135,905. PUBLISHED JANUARY 25, 1921.

143,214. CRYSTALLINE MALT-EXTRACT PRODUCTS FOR USE AS A GENERAL TONIC. THE WANDER COMPANY, Chicago, Ill.
Filed July 23, 1920. Serial No. 135,542. PUBLISHED FEBRUARY 1, 1921.

143,215. CHEMICAL FIRE-EXTINGUISHING MATERIAL. THE WAPAKONETA MANUFACTURING COMPANY, Wapakoneta, Ohio.
Filed February 12, 1919. Serial No. 115,822. PUBLISHED JANUARY 25, 1921.

143,216. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed November 20, 1920. Serial No. 139,920. PUBLISHED FEBRUARY 8, 1921.

143,217. NON-ALCOHOLIC FRUIT BEVERAGE. WARWICK BOTTLING WORKS, Chicago, Ill.
Filed October 20, 1920. Serial No. 138,616. PUBLISHED FEBRUARY 8, 1921.

143,218. NON-ALCOHOLIC, MALTLESS BEVERAGES. THE WATKINS BEVERAGE COMPANY, Bloomington, Ill.
Filed November 22, 1920. Serial No. 140,000. PUBLISHED FEBRUARY 1, 1921.

143,219. LAXATIVE, CATHARTIC, AND BOWEL TONIC WHICH ASSISTS IN KEEPING THE STOMACH, LIVER, AND BOWELS HEALTHY. CHARLES G. WATSON, Lebanon, Mo.
Filed December 16, 1919. Serial No. 126,156. PUBLISHED JANUARY 25, 1921.

143,220. HAIR-TONIC. WAUKEGAN DRUG COMPANY, Waukegan, Ill.
Filed March 29, 1920. Serial No. 130,349. PUBLISHED FEBRUARY 15, 1921.

143,221. LIQUID CONCRETE-HARDENER. THE WHITE COMPANY, Baltimore, Md.
Filed March 17, 1920. Serial No. 129,869. PUBLISHED FEBRUARY 15, 1921.

143,222. CANDY. WHITE STAR CANDY COMPANY, Albany, N. Y.
Filed November 4, 1920. Serial No. 139,180. PUBLISHED FEBRUARY 8, 1921.

143,223. CORE-OVEN CARS, CHARGING-CARS, AND HAND YARD-TRUCKS. WHITING FOUNDRY EQUIPMENT CO., (now by change of name Whiting Corporation,) Harvey, Ill.
Filed August 16, 1920. Serial No. 136,182. PUBLISHED FEBRUARY 8, 1921.

143,224. SALVE FOR THE SKIN AND MUCOUS MEMBRANE. GEORGE C. WILSON, Tyrone, Pa.
Filed May 25, 1920. Serial No. 132,967. PUBLISHED FEBRUARY 8, 1921.

143,225. LINIMENT. GEORGE C. WILSON, Tyrone, Pa.
Filed June 24, 1920. Serial No. 134,165. PUBLISHED FEBRUARY 8, 1921.

143,226. RUBBER-COVERED WIRE FOR ELECTRICAL PURPOSES. A A WIRE CO., INC., Newark, N. J.
Filed October 25, 1920. Serial No. 138,740. PUBLISHED FEBRUARY 1, 1921.

143,227. PHOTOGRAPHIC PRINTS. WINSTEAD PHOTO FINISHING COMPANY, Los Angeles, Calif.
Filed November 13, 1920. Serial No. 139,644. PUBLISHED FEBRUARY 8, 1921.

143,228. CANDY-COATED CHEWING-GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed March 18, 1920. Serial No. 129,920. PUBLISHED JUNE 22, 1920.

143,229. YARN. YARN NOVELTY CO., New York, N. Y.
Filed December 4, 1920. Serial No. 140,626. PUBLISHED FEBRUARY 1, 1921.

143,230. SYNTHETIC TANNIN. JOHN H. YOCUM, Newark, N. J.
Filed August 3, 1920. Serial No. 135,774. PUBLISHED FEBRUARY 1, 1921.

143,231. BREAD. ZINSMASTER BAKING COMPANY, St. Paul, Minn.
Filed October 16, 1920. Serial No. 138,421. PUBLISHED FEBRUARY 1, 1921.

143,232. INGOTS OF RED AND YELLOW BRASS. THE AJAX METAL COMPANY, Philadelphia, Pa.
Filed December 1, 1919. Serial No. 125,452. PUBLISHED FEBRUARY 8, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

MAY 24, 1921.

143,233. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 2, 1920. Serial No. 130,502.

PREMIUM

Particular description of goods.—Lead-Pencils.
Claims use since Apr. 20, 1911.

143,234. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920. Serial No. 139,494.

BORNEO

Particular description of goods.—Bagging Manufactured from Jute Fiber.
Claims use since Dec. 31, 1914.

143,235. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AMERICAN STEEL FOUNDRIES, Jersey City, N. J., and Chicago, Ill. Filed Aug. 11, 1920. Serial No. 135,983.

CUSHNSTEEL
TRADE MARK

Particular description of goods.—Metal Wheels of Automobiles and Railway-Cars Only, Metal Chassis Parts of Automobiles and Railway-Cars Only, Chassis Forgings and Castings of Automobiles and Railway-Cars Only.
Claims use since Aug. 1, 1919.

143,236. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE BROWN INSTRUMENT COMPANY, Philadelphia, Pa. Filed Nov. 27, 1920. Serial No. 140,246.

HEATMETER

Particular description of goods.—Pyrometers.
Claims use since May 31, 1918.

143,237. (CLASS 39. CLOTHING.) BRUNSWICK KNITTING CO., New York, N. Y. Filed Apr. 20, 1920. Serial No. 131,374.

Brunswick
KNIT

Particular description of goods.—Sweaters, Sweater-Coats, Bathing-Suits, Knitted Caps and Boots.
Claims use since July 1, 1919.

143,238. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed Mar. 9, 1920. Serial No. 129,475.

OVER UNION

Particular description of goods.—One-Piece Work-Garments.
Claims use since 1917.

143,239. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DODGE-HOOKER MILLS, Wausau, Wis. Filed Feb. 4, 1921. Serial No. 143,162.

WISCONSIN
BALANCED
RATION



Particular description of goods.—Mixed-Grain Ration for Dairy-Cattle.
Claims use since Oct. 24, 1916.

143,240. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DONAHOE'S INC., Pittsburgh, Pa. Filed Nov. 15, 1920. Serial No. 139,666.

MY-TE-GOOD

Particular description of goods.—Bread, Candies, Coffees, Teas, Oleomargarin, Canned Vegetables, Mince-Meat, and Pressed Codfish.
Claims use since April, 1917.

143,241. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920. Serial No. 137,452.

NEWMARK

Particular description of goods.—Cotton Goods in the Piece.
Claims use since Apr. 10, 1915.

143,242. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FEDERAL STORAGE BATTERY CO., Washington, D. C. Filed Nov. 17, 1919. Serial No. 124,982.



Particular description of goods.—Electric Batteries.
Claims use since November, 1918.

143,243. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MANUEL FELDMAN, New York, N. Y. Filed Jan. 21, 1921. Serial No. 142,568.



Particular description of goods.—Rag and Grass Rugs.
Claims use since October, 1919.

143,244. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed Mar. 5, 1921. Serial No. 144,326.

Forraine

Particular description of goods.—Hair-Nets.
Claims use since July 1, 1918.

143,245. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOLDEN STATE CANNERIES, Los Angeles, Calif. Filed Dec. 21, 1920. Serial No. 141,370.

GOLDEN STATE

Particular description of goods.—Canned Fruits, Vegetables, Berries, and Olives.
Claims use since Oct. 29, 1910.

143,246. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRIS SOAP COMPANY, Buffalo, N. Y. Filed Jan. 22, 1921. Serial No. 142,620.

PUT YOUR DUDS IN OUR SUDS

Particular description of goods.—Laundry Soap and Oil-Soaps and Soap Powder.
Claims use since 1912.

143,247. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAUG & CO., INC., New York, N. Y. Filed Mar. 6, 1920. Serial No. 129,324.

NEVER-FAIL

Particular description of goods.—Pie-Filling, Flavoring Extracts and Flavorings, Spices; Whip for Icing, Kisses, Meringue, Marshmallow, Cream Roll, Filling, Cake, and Charlotte Russe; Powdered Egg, All Being Products Generally Used by Bakers, Confectioners, Ice-Cream and Candy Manufacturers.
Claims use since about Jan. 1, 1917.

143,248. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HOOD RUBBER COMPANY, Watertown, Mass. Filed Feb. 7, 1921. Serial No. 143,265.

HOOD

Particular description of goods.—Rubber Vehicle-Tires.
Claims use since July, 1913.

143,249. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HOMER FURNACE COMPANY, Coldwater, Mich. Filed Jan. 24, 1921. Serial No. 142,706.

HOMER

Particular description of goods.—Coal, Wood, and Gas Furnaces.
Claims use since February, 1919.

143,250. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUGH WALLACE COMPANY, Detroit, Mich. Filed Dec. 11, 1919. Serial No. 125,867.



Particular description of goods.—Knit Woolen Cloth in the Piece for Ladies' Cloaks and Suits and Overcoatings for Men's Wear.
Claims use since June 16, 1919.

143,251. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Filed Dec. 29, 1919. Serial No. 126,585.

GOLDEN STATE

Particular description of goods.—Chocolate.
Claims use since 1916.

143,252. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) LEATHERWEAR COMPANY OF AMERICA, INC., Middletown, N. Y. Filed Dec. 2, 1920. Serial No. 140,535.

Leatherwear

Particular description of goods.—Men's, Women's, and Children's Belts for Personal Wear, of Leather, Patent-Leather, Imitation Leather, Oil-Cloth, Combined Silk and Leather, and Silk.
Claims use since Dec. 1, 1914.

143,253. (CLASS 39. CLOTHING.) L. G. & S. S. Co., Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,632.

"SELWEL"

Particular description of goods.—Heel-Lining Repairers.
Claims use since June, 1916.

143,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONSDALE COMPANY, Providence, R. I. Filed Jan. 26, 1921. Serial No. 142,797.



Particular description of goods.—Cotton Goods by the Piece.
Claims use since Nov. 1, 1917.

143,255. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MAGILL & CO., Fargo, N. D. Filed Dec. 6, 1920. Serial No. 140,668.



Particular description of goods.—Field-Seed and Seed-Grain.
Claims use since January, 1909.

143,256. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) METROPOLITAN SEWING MACHINE CORPORATION, Nyack, N. Y. Filed Nov. 24, 1920. Serial No. 140,132.



Particular description of goods.—Woven, Knitted, or Netted Fabrics and Goods in the Piece—Namely, Silks, Satins, Cottons, Linens, Woolens, and Mixtures Thereof.
Claims use since 1913.

143,257. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MUSKEGON MOTOR SPECIALTIES COMPANY, Muskegon, Mich. Filed Feb. 3, 1921. Serial No. 143,134.

Accurating

Particular description of goods.—Cam-Shafts.
Claims use since 1918.

143,258. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL HAIR GOODS CO., Chicago, Ill. Filed Apr. 21, 1920. Serial No. 131,437.

National

Particular description of goods.—Hair-Nets.
Claims use since Mar. 27, 1915.

143,259. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PEARL COTTON MILLS, Durham, N. C. Filed Oct. 19, 1920. Serial No. 138,513.

BERWICK

Particular description of goods.—Cotton Goods in the Piece.
Claims use since 1897.

143,260. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER CAILLER KOHLER SWISS CHOCOLATES CO. INC., Fulton and New York, N. Y. Filed Dec. 16, 1920. Serial No. 141,174.

KOHLER'S

Particular description of goods.—Cocoa and Chocolate.
Claims use since January, 1910.

143,261. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PONTIAC LAWN MOWER CO., Detroit, Mich. Filed June 14, 1920. Serial No. 133,720½.

Moto-Mower

Particular description of goods.—Lawn-Mowers.
Claims use since about Sept. 1, 1919.

143,262. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif. Filed Jan. 5, 1921. Serial No. 141,873.

Modesto

Particular description of goods.—Canned Apricots, Pears, Peaches, Cherries, Plums, and Grapes.
Claims use since about Nov. 2, 1908.

143,263. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) PRESSURE PROOF PISTON RING COMPANY, Boston, Mass. Filed Mar. 18, 1921. Serial No. 144,940.

"THE RING WITH THE SPRING"

Particular description of goods.—Piston-Rings.
Claims use since July, 1919.

143,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPECIALTY BAKING CO., INC., New York, N. Y. Filed Mar. 27, 1918. Serial No. 109,833.

THE SPECIALTY GOLD MEDAL BREAD BAKING CO

Particular description of goods.—Bread.
Claims use since on or about Feb. 21, 1918.

143,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUSTAVE SPONGBERG, Pocatello, Idaho. Filed Sept. 25, 1920. Serial No. 137,613.

GATE CITY

Particular description of goods.—Coffee.
Claims use since Jan. 1, 1916.

143,266. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUSTAVE SPONGBERG, Pocatello, Idaho. Filed Sept. 25, 1920. Serial No. 137,614.

GEM STATE

Particular description of goods.—Coffee, Tea, Spices, and Flavoring Extracts for Food.
Claims use since Jan. 1, 1916.

143,267. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STRAUSS BROS. & CO., New York, N. Y. Filed Jan. 22, 1921. Serial No. 142,674.

GROOM-WELL

Particular description of goods.—Hair-Nets.
Claims use since the early part of the year 1909.

143,268. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PRECISION INSTRUMENT COMPANY, Detroit, Mich., and Newark, N. J. Filed Oct. 13, 1917. Serial No. 106,758.

PRECISION

Particular description of goods.—Fluid-Pressure Gages, Fluid-Pressure Indicators, Fluid-Pressure Recorders, Carbon-Dioxid Indicators for Indicating the Percentage of Carbon Dioxid, Carbon-Dioxid Recorders for Recording the Percentage of Carbon Dioxid, Water-Meters, Water-Meter Indicators, Water-Meter Recorders, and Gas-Collectors for Collecting and Measuring Gas of Different Characters.
Claims use since February, 1910.

143,269. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) A. C. TUXBURY LUMBER CO., Charleston, S. C. Filed Feb. 23, 1921. Serial No. 143,968.

QUICKBILT

Particular description of goods.—Built-Up or Fabricated Bungalows and Houses.
Claims use since Apr. 1, 1919.

143,270. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WHITCOMBE, MCGEACHIN & CO., New York, N. Y. Filed Jan. 26, 1921. Serial No. 142,819.

WITCOMBE, McGEACHIN & CO.

Particular description of goods.—Printed Piece Cretonnes and for Decorative Fabrics in Piece Form and in Panels for Ornamenting and Furnishing Dwelling-Rooms and Buildings and Comprising Tapestries, Velvets, Printed Fabrics, Embroidered Fabrics, Upholstery, and Rugs.
Claims use since 1906.

143,271. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE WILLIAMS SEALING CORPORATION, Waterbury, Conn. Filed Mar. 21, 1916. Serial No. 93,752.

KORK-N-SEAL

Particular description of goods.—Bottle-Caps.
Claims use since February, 1909.

TRADE-MARK REGISTRATIONS RENEWED.

17,833. SWEAT-PADS FOR HARNESS AND THE LIKE. J. B. SCHOTT SADDLERY CO., Quincy, Ill.; J. B. Schott Saddlery & Mfg. Co., assignee.
Registered April 29, 1890. Renewed April 29, 1920.

19,921. SUPPOSITORIES FOR WOMEN. MAUDE M. HERROLD, Kansas City, Mo.
Registered July 28, 1891. Renewed July 28, 1921.

TRADE-MARK REGISTRATIONS CANCELED.

38,016. PERFUMERY AND CERTAIN NAMED TOILET PREPARATIONS. HEINRICH MACK, Ulm, Germany.
Registered April 1, 1902. Canceled January 31, 1921.

69,464. WHEAT-FLOUR. THE FARMERS' MILLING & MERCANTILE COMPANY, Berthoud, Colo.
Registered June 16, 1908. Canceled March 11, 1921.

101,006. TOILET POWDER, FACE-POWDER, AND PERFUMES. THOMAS W. S. PHILLIPS, New York, N. Y.
Registered November 3, 1914. Canceled January 31, 1921.

103,452. RUBBER AUTOMOBILE-CASINGS, INNER TUBES, RELINERS FOR CASINGS, RADIATOR-HOSE, AND RUBBER FAN-BELTS. THERMOID RUBBER COMPANY, Hamilton township, Mercer county, N. J.
Registered April 6, 1915. Canceled February 11, 1921.

135,046. ATHLETIC UNION-SUITS. PREMIER MANUFACTURING CO., Lexington, Ky.
Registered September 21, 1920. Canceled April 6, 1921.

136,384. FRUIT-JUICE CANDY TABLETS. PAUL K. CONDRELL, Kenmore, N. Y.
Registered November 2, 1920. Canceled March 2, 1921.

139,323. CHOICE REFINED DEODORIZED SOY-BEAN OIL. CHAS. HOLLINSHED CO., INC., New York, N. Y.
Registered February 1, 1921. Canceled March 8, 1921.

LABELS

REGISTERED MAY 24, 1921.

22,893.—*Title:* "ALCO AUTO POLISH." (For Automobile-Polish.) THE ALCO CO., Hickory, Pa. Filed March 5, 1920.

22,894.—*Title:* "AUERBACH ANIMAL BLOCKS." (For Sweet-Milk-Chocolate Blocks.) D. AUERBACH & SONS, New York, N. Y. Filed August 12, 1920.

22,895.—*Title:* "KING BRADY'S RED OIL." (For Bottles of Liniment.) KING BRADY, Chicago, Ill. Filed October 23, 1920.

22,896.—*Title:* "MUSCADINE TODDY." (For Containers for Beverages of a Non-Alcoholic Nature.) CINCO SYRUPS AND FOUNTAINS COMPANY, Greenville, S. C. Filed December 12, 1919.

22,897.—*Title:* "OLD KENTUCKY BLONDED BLUE GRASS RYE." (For Tiny Bottles Containing Water, Few Grains of Rye, and Real Blades of Blue-Grass as an Advertising Novelty.) SAM RUD COOK, Rockport, Ind. Filed October 13, 1920.

22,898.—*Title:* "FORESIGHT." (For Boxes Containing Cigars.) ENNALS & COMPANY, INC., Morristown, N. J. Filed September 23, 1920.

22,899.—*Title:* "WASHINGTON BRAND." (For Crates Containing Vegetables.) FREE BROTHERS COMPANY, Pittsburgh, Pa. Filed July 2, 1920.

22,900.— *Title:* "PRINCESS HATS." (For Ladies' and Children's Hats.) THE GOULD MILLINERY CO. INC., Los Angeles, Calif. Filed January 31, 1921.

22,901.—*Title:* "STANFORD." (For Dried Prunes.) O. A. HARLAN & Co., San Jose, Calif. Filed February 1, 1921.

22,902.—*Title:* "FREEZE-EM PICKLE." (For Cartons Containing Freeze-Em Pickle, a Meat-Curing Preparation.) B. HELLER & Co., Chicago, Ill. Filed February 1, 1921.

22,903.—*Title:* "'A' CONDIMENTINE." (For Cartons Containing "A" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) B. HELLER & Co., Chicago, Ill. Filed February 2, 1921.

22,904.—*Title:* "'B' CONDIMENTINE." (For Cartons Containing "B" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) B. HELLER & Co., Chicago, Ill. Filed February 2, 1921.

22,905.—*Title:* "HELLER'S SILVER SHINE." (For Cans Containing Heller's Silver Shine, a Dry Powder Polish.) B. HELLER & Co., Chicago, Ill. Filed February 2, 1921.

22,906.—*Title:* "VACUUM-BRAND GARLIC COMPOUND." (For Cans Containing Vacuum Brand Garlic Compound, a Seasoning Product.) B. HELLER & Co., Chicago, Ill. Filed February 2, 1921.

22,907.—*Title:* "FREEZE-EM." (For Cans and Bottles Containing Freeze-Em, a Preparation for Cleaning Butchers' Utensils.) B. HELLER & Co., Chicago, Ill. Filed February 4, 1921.

22,908.—*Title:* "FLUFF-O-LITE." (For a Wrapper Inclosing Candy.) HOFFMAN CANDY CO., Cleveland, Ohio. Filed December 17, 1920.

22,909.—*Title:* "JACKSON LAGER BEER." (For Lager-Beer.) JACKSON BREWING COMPANY, New Orleans, La. Filed November 24, 1919.

22,910.—*Title:* "JOHNSON'S SOUTHERN HOME BREAD." (For a Wrapper for Loaves of Bread.) FRED JOHNSON, De Ridder, La. Filed December 15, 1920.

22,911.—*Title:* "LATHER KREAM." (For Boxes Containing a Preparation Which is Used as a Shaving-Cream.) ALFRED J. KRANK, St. Paul, Minn. Filed May 24, 1920.

22,912.—*Title:* "DARDANELLA." (For Candy.) LOOSE-WILES BISCUIT COMPANY, Kansas City, Mo. Filed November 27, 1920.

22,913.—*Title:* "JERSEY CREAM." (For Wax-Paper Bread-Wrappers Containing Bread.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Binswanger & Co., St. Joseph, Mo. Filed December 6, 1920.

22,914.—*Title:* "PRAIRIE GOLD CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Mountain Grove Creamery Ice and Electric Co., Mountain Grove, Mo. Filed February 3, 1921.

22,915.—*Title:* "SANGER'S PRO-TEK-TUBES PROPHYLACTIC." (For a Preventive for Venereal Diseases.) E. J. MOORE SONS, INC., New York, N. Y. Filed September 21, 1920.

22,916.—*Title:* "NAFZIGER CERTIFIED BREAD." (For Bread.) NAFZIGER BAKING COMPANY, Kansas City, Mo. Filed December 13, 1920.

22,917.—*Title:* "GOLDEN CREAM." (For Creamery-Butter.) THE OTTAWA CONDENSING CO., Ottawa, Kans. Filed December 9, 1920.

22,918.—*Title:* "OPPY'S SPECIAL." (For Boxes Containing Cigars.) OPPY'S CIGAR STORES, INC., New York, N. Y. Filed December 28, 1920.

22,919.—*Title:* "PARKER'S DANDRUFF MANGE TREATMENT." (For a Medicinal Compound for Treating Dandruff and Mange.) EUGENE PARKER, Baltimore, Md. Filed December 23, 1920.

22,920.—*Title:* "PYROKURO." (For a Liquid Preparation Intended for the Treatment of Bleeding Gums.) PYROKURO COMPANY, Pittsburgh, Pa. Filed February 3, 1921.

22,921.—*Title:* "POLLYANNA READY TO MAKE DOLL CLOTHES SETS. (For Doll-Clothes.) REITMAN MFG. CO., Chicago, Ill. Filed December 20, 1920.

22,922.—*Title:* "RE JU-TONIC." (For a Preparation in Powder Form for a Stimulating-Tonic for the Blood and Nerves.) ALTER REICH, New York, N. Y. Filed October 9, 1920.

22,923.—*Title:* "PERFECT BAKINGS ALWAYS WITH PERFECT DAY FLOUR." (For Flour.) RICHLAND MILLING COMPANY, Belleville, Ill. Filed December 20, 1920.

22,924.—*Title:* "EVERYBODY'S." (For Canned Apricots.) RICHMOND CHASE COMPANY, San Jose, Calif. Filed February 1, 1921.

22,925.—*Title:* "$10,000 FOR A MATCH!" (For Cigars.) WILLIAM SAQUI, New York, N. Y. Filed September 25, 1920.

22,926.—*Title:* "A SCHILLING PRODUCT." (For Prepared Coffee.) A. SCHILLING & COMPANY, San Francisco, Calif. Filed January 31, 1920.

22,927.—*Title:* "A SCHILLING PRODUCT." (For Prepared Cream of Tartar.) A. SCHILLING & COMPANY, San Francisco, Calif. Filed January 31, 1920.

22,928.—*Title:* "A SCHILLING PRODUCT." (For Flavoring Extracts—viz., Vanilla.) A. SCHILLING & COMPANY, San Francisco, Calif. Filed January 31, 1920.

22,929.—*Title:* "A SCHILLING PRODUCT." (For Prepared Spices—viz., Pepper.) A. SCHILLING & COMPANY, San Francisco, Calif. Filed January 31, 1920.

22,930.—*Title:* "A SCHILLING PRODUCT." (For Prepared Tea.) A. SCHILLING & COMPANY, San Francisco, Calif. Filed January 31, 1920.

22,931.—*Title:* "A SCHILLING PRODUCT." (For Baking-Powder.) A. SCHILLING & COMPANY, San Francisco, Calif. Filed January 31, 1920.

22,932.—*Title:* "STEVENS CROCHET BEDSPREAD." (For Bedspreads.) STEVENS MANUFACTURING CO., Fall River, Mass. Filed January 28, 1921.

22,933.—*Title:* "STEVENS SATIN BEDSPREAD." (For Bedspreads.) STEVENS MANUFACTURING CO., Fall River, Mass. Filed January 28, 1921.

22,934.—*Title:* "STEVENS BROCADE BEDSPREAD." (For Bedspreads.) STEVENS MANUFACTURING CO., Fall River, Mass. Filed January 28, 1921.

22,935.—*Title:* "STEVENS DURÉE BEDSPREAD." (For Bedspreads.) STEVENS MANUFACTURING CO., Fall River, Mass. Filed January 28, 1921.

22,936.—*Title:* "SWISS STYLE SWEET CHOCOLATE." (For Chocolate.) THE VAN CAMP PACKING COMPANY, Indianapolis, Ind. Filed September 13, 1920.

22,937.—*Title:* "VAN CAMP'S ALMOND SWEET MILK CHOCOLATE." (For Almond Sweet Milk-Chocolate.) THE VAN CAMP PACKING COMPANY, Indianapolis, Ind. Filed September 13, 1920.

22,938.—*Title:* "WATKINS ALL RUBBER PATCH OUTFIT." (For Cartons Containing a Rubber-Patch Outfit.) THE J. R. WATKINS COMPANY, Winona, Minn. Filed February 2, 1920.

22,939.—*Title:* "STRAWBERILADE." (For a Spread of Strawberry Flavor for Bread, Toast, and Muffins.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed August 30, 1920.

22,940.—*Title:* "WELLSCRAFT." (For Decorated Candles.) CORINNE B. WELLS, Portland, Oreg. Filed May 1, 1920.

22,941.—*Title:* "PY-E-TA." (For a Mixture for Filling Pies and Making other Desserts.) WOLVERINE SPICE COMPANY, Grand Rapids, Mich. Filed November 24, 1920.

22,942.—*Title:* "REFERENDUM." (For Malt.) YE OLDEN TIMES COMPANY, New York, N. Y. Filed February 2, 1921.

PRINTS

REGISTERED MAY 24, 1921.

5,596.—*Title:* "YOUR FAVORITE TIRE." (For Advertising Purposes for Tires.) AMALGAMATED TIRE STORES CORPORATION, New York, N. Y. Filed January 20, 1920.

5,597.—*Title:* "DANGER OF SERIOUS ILLNESS." (For Advertising Purposes for Father John's Medicine.) CARLETON & HOVEY COMPANY, Lowell, Mass. Filed December 4, 1920.

5,598.—*Title:* "THE GROWN-UPS." (For Advertising Purposes for a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed July 26, 1920.

5,599.—*Title:* "DOROTHY'S FIFTH BIRTHDAY." (For Advertising Purposes for a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed July 26, 1920.

5,600.—*Title:* "WHAT THE WORLD RESTS ON." (For Advertising Purposes for Mattresses, Pillows.) JOHN OSIASON, Fall River, Mass. Filed March 30, 1920.

5,601.—*Title:* "RIDEWELL TIRES." (For Advertising Purposes for Automobile-Tires.) ROBEL AND BRYANT, INC., Chicago, Ill. Filed April 21, 1920.

5,602.—*Title:* "STAR TAILORS." (For Advertising Purposes for Men's Tailored Suits.) A. B. STEPHENS, Chicago, Ill. Filed March 29, 1920.

5,603.—*Title:* "VIC THE MASTER BLADE. TRY IT IN YOUR RAZOR." (For Advertising Purposes for Safety-Razor Blades.) VIC MANUFACTURING CO., New York, N. Y. Filed September 25, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

AUNT JEMIMA MILLS COMPANY *v.* THE BLAIR MILLING COMPANY.

Decided February 7, 1921.

1. TRADE-MARKS — SIMILARITY — FULL-LENGTH FIGURE SIMILAR TO BUST FIGURE.

A mark consisting of the word "Sambo," with the full-length representation of a negro having a white cap on his head and wearing a long apron, is not entitled to registration in view of the prior adoption and use by opposer of the well-known mark "Aunt Jemima," comprising a bust picture of a smiling negress with a handkerchief wrapped about her head and shoulders.

2. SAME—SAME—MANNER IN WHICH MARKS MAY BE USED AN IMPORTANT CONSIDERATION—BUST AND FULL-LENGTH FIGURES.

In determining the question of possible confusion between the mark of an applicant for registration and opposer's mark it is proper to consider the manner in which applicant's mark may be used. Where opposer's mark comprised a bust figure and applicant's a full-length figure the lower portion of which was partly obscured by printed matter and might easily be more obscured, the difference in the extent of the representation was not of much moment.

3. SAME—SAME—ADOPTION OF SIMILAR MARK IMPLIES INTENTION TO TAKE ADVANTAGE OF REPUTATION.

Where a new manufacturer adopts as his trade-mark a representation similar to that of an existing well-known trade-mark of a manufacturer of the same class of goods in the same vicinity, the only inference possible is that of gaining advantage from the wide reputation of the established manufacturer.

4. SAME—DOUBT AS TO IDENTITY RESOLVED AGAINST NEWCOMER.

Where there is doubt about the identity of two marks, the doubt will be resolved against the one last in the field.

Mr. F. M. Phelps and *Mr. E. S. Rogers* for Aunt Jemima Mills Co.

Mr. Hervey S. Knight, Mr. Arthur C. Brown, and *Mr. Jas. W. Orr* for The Blair Milling Co.

VAN ORSDEL, *J.:*

Appellant company, a Delaware corporation, with its place of business at St. Joseph, Mo., filed its opposition to the registration of a trade-mark by appellee company, a Kansas corporation, doing business at Atchison, Kans., twenty-three miles from St. Joseph.

Appellant's device is the well-known "Aunt Jemima" trade-mark for self-rising buckwheat-flour. It consists of the words "Aunt Jemima's," having underneath the bust picture of a full-faced smiling negress, with a handkerchief wrapped about her head and shoulders. This mark has been used by appellant company and its predecessor in business at St. Joseph, Mo., on pancake-flour since 1889, and on buckwheat-flour since 1904. Appellee's mark consists of the word "Sambo," having underneath the representation of a full-faced, clean-shaven, smiling negro, having a white cap on his head and wearing a long apron, bearing in one hand a plate of smoking cakes, and in the other hand a cake-turner. This mark has been used by appellee company at Atchison, Kans., on pancake-flour since 1913, and on pancake buckwheat-flour since August 7, 1916.

The opposition is based upon the similarity of the marks and the likelihood of confusion in trade when the marks are applied to goods of the same descriptive properties.

From an order dismissing the notice of opposition, this appeal was taken.

The goods on which the marks are used are the same, and we think the marks are deceptively similar. It is urged that the goods would be distinguished as "Sambo" and "Aunt Jemima's" brands, but we doubt this conclusion. The Aunt Jemima flour has become so widely known that a glance at the picture would satisfy the average purchaser. In other words, while the goods are known by the name, the picture is the distinguishing feature by which the goods are visually identified.

In determining the question of possible confusion and resulting damage, it is proper to consider the manner in which appellee's mark may be used. Cartons were produced at bar as exhibits on which the lower part of the figure of the negro cook was so covered with printed matter that to the casual observer only the shoulders and head were plainly visible. Should registration be granted, the printed matter could be extended until only a bust picture remained, and nothing would prevent the registrant from using whatever coloring it desired in setting forth the mark, so long as the style of dress and the features of the negro were retained.

We think our opinion in the case of *Wayne County Preserving Co.* v. *Burt Olney Canning Co.* (32 App. D. C., 279) is controlling here. There, as here, the marks were used on the same kind of

goods. There, as here, the parties were located in neighboring towns, and there, as here, one was a bust picture and the other a full-length figure. The mark of the appellant company in that case consisted of a bust portrait of General Wayne in colonial military uniform, while the mark of appellee company consisted of a full-length figure of a colonial military officer designated by the words "Col. Willett."

Considering the similarity of the marks, the court said:

These marks, when appearing on the canned goods of the respective parties, exposed to the public on the shelves of the retailer, are so similar as to be likely to cause confusion; and where, as in this case, there is no evidence on that subject except the marks themselves, it is the duty of the court to protect the prior registrant and user from the probability of such occurrence. It is strangely coincident that appellee, engaged in the same business as appellant, and located in an adjoining county to where appellant has used his mark for many years, should select a mark so similar. The property right in trademarks is a valuable one, and is entitled to protection from those who would profit by its limitation, and the courts should resolve the doubt, if any exists, in favor of the prior registrant.

So here, the adoption of the mark before us by appellee company, situated only twenty-three miles from where appellant company has for years been manufacturing and widely distributing its goods bearing the Aunt Jemima mark, will admit of but one inference—that of gaining advantage from the wide reputation established by appellant in the goods bearing its mark.

While the case is a close one, the court will adhere to its rule and resolve the doubt in favor of the opposer. As was said by Mr. Chief Justice Smyth, in *William Waltke & Co.* v. *Geo. H. Schafer & Co.* (49 App. D. C., 254; 263 Fed., 650:)

The case is not free from difficulty, but where there is doubt the courts resolve it against the newcomer. (*Lambert Pharmacal Co.* v. *Mentho-Listine Chemical Co.*, 47 App. D. C., 197.) The reason for this is, as has been said by this court more than once, that the field from which a person may select a trade-mark is practically unlimited, and hence there is no excuse for his impinging upon, or even closely approaching, the mark of his business rival. (*O. & W. Thum Co.* v. *Dickinson*, 46 App. D. C., 306; *Florence Mfg. Co.* v. *J. E. Dowd & Co.*, 178 Fed., 75; 101 C. C. A., 565.) Where he does so he is open to the suspicion that his purpose is to appropriate to himself some of the good will of his competitor.

The decision of the Commissioner of Patents is reversed.

Reversed.

Mr. Chief Justice SMYTH dissents.

Court of Appeals of the District of Columbia.

BISSELL *v.* PHELPS.

Decided February 7, 1921.

1. PATENTS—INVENTION NOT REDUCED TO PRACTICE BY MAKING MODEL OUT OF CLAY.

An invention relating to caps for the outside end of conduits through which electric wires are led into buildings was not reduced to practice by making a model out of ordinary molding-clay, which would have broken or disintegrated if any attempt had been made to use it.

2. SAME—PRIORITY—LACK OF DILIGENCE IN FILING APPLICATION.

An applicant who conceived the invention in issue on March 25, 1915, gave directions for the preparation of an application in July, 1915, executed it June 5, 1916, and filed it August 29, 1916, is not entitled to an award of priority over another who was later in conception, but who filed his application on August 19, 1915, where the excuse given by the junior party for the delay in executing his application was futile and there was no attempt to explain the subsequent delay in filing the application.

Mr. A. E. Parsons for Bissell.

Mr. H. W. Bowen and *Mr. W. L. Edmonston* for Phelps.

SMYTH, *C. J.*:

The appellant Bissell lost before the three tribunals on the question of reduction to practice. The invention relates to caps which are designed to cover the outside ends of conduits through which electric wires are led into buildings. Bissell, who is the junior party, made a drawing of the invention in February, 1915, and a clay model on March 25 of the same year, and, about July, 1915, gave directions to have an application for patent prepared. He did not file until August 29, 1916. Phelps, the senior party, made a sketch about March 31, 1915, and constructed a wooden model about June 30, 1915. From that time until he filed on August 19, same year, he was diligent. He was given as his date of conception as early as June, 1915.

Bissell, on the other hand, is entitled to conception as of March 25, 1915, thus placing him ahead of Phelps's earliest date. Being the first to conceive and the last to file, if he succeeds he must do so by proving an actual reduction to practice prior to any date accorded to Phelps for reduction to practice, or by showing diligence on his part running from a time just prior to that when Phelps entered the field down to his own date of filing. Was Bissell's clay model a reduction to practice within the meaning of the law? Speaking of it the Examiner of Interferences said:

No attempt was ever made to subject that model to any tests corresponding to the conditions surrounding such caps in actual use. And an examination of the model forces the conclusion that, if subjected to such tests, its parts could not be secured together; it would break down on pulling the wires threaded through it; and it would disintegrate under the action of rain.

In reference to the same point the Assistant Commissioner observed:

This model was obviously not capable of use for the purpose for which it was intended since it was made of ordinary molding clay. At the best it merely illustrated the manner in which a device embodying the invention should be built and disclosed substantially nothing that would not have been disclosed in an accurate drawing.

He, of course, united with the other tribunals in the conclusion that the model did not amount to an actual reduction to practice, and he was right. It is a rule of decision, long established, that the mere making of a model is not a reduction to practice unless capable of use. (*Lindemeyr* v. *Hoffman*, 18 App. D. C., 1; *Hammond* v. *Basch*, 24 App. D. C., 469.) The evidence shows that this model was not capable of use.

With respect to the question of diligence, Bissell, as we have said, gave directions to prepare an application for patent some time in July, 1915. It was not executed by him until June 5, 1916, and was not filed before August 29, same year. While an attempt was made to excuse the long delay between the date on which Bissell gave directions to have an application prepared and the date on which he signed it, it was utterly futile. But not even an attempt was made to account for the delay of nearly three months betwen the date on which he signed the application and the date on which it was filed by him in the Patent Office. Hence the conclusion was inevitable that Bissell was lacking in diligence in reducing his invention to practice, actual or constructive.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Supreme Court of the United States.

THE BALDWIN COMPANY AND THE VALLEY GEM PIANO COMPANY *v.* R. S. HOWARD COMPANY. (139.)

Appeal from the Court of Appeals of the District of Columbia.

THE BALDWIN COMPANY *v.* R. S. HOWARD COMPANY, (113.)

On petition for a writ of certiorari to the Court of Appeals of the District of Columbia.

Decided April 11, 1921.

1. TRADE-MARKS—REVIEW OF DECISION OF COURT OF APPEALS ON APPEAL FROM COMMISSIONER—JURISDICTION OF SUPREME COURT.

Section 9 of the act of February 20, 1905, (33 Stat. L., 728,) providing for appeals to the Court of Appeals of the District of Columbia from decisions of the Commissioner of Patents in trade-mark cases, does not authorize a judgment, but only the return by the court of appeals of a certificate to the Commissioner of Patents, to be there entered of record to govern further proceedings in the case. As proceedings may then be instituted under section 4915, Revised Statutes, as in patent cases, such a decision of the court of appeals is in no sense a final judgment reviewable by the Supreme Court on certiorari or appeal.

2. SAME—JURISDICTION OF SUPREME COURT—INADVERTENT ALLOWANCE OF WRIT OF CERTIORARI IN A PRIOR CASE.

An inadvertent allowance by the Supreme Court of a writ of certiorari to review a decision of the Court of Appeals of the District of Columbia on an application to register a trade-mark does not establish the jurisdiction of the court. (*Fritch* v. *United States*, 248 U. S., 458, 463.)

Mr. John E. Cross and *Mr. Lawrence Maxwell* for The Baldwin Company.

Mr. Samuel S. Watson for R. S. Howard Company.

Mr. Justice DAY delivered the opinion of the Court.

No. 139 is here upon an appeal from a decision of the Court of Appeals of the District of Columbia reversing the decision of the Commissioner of Patents.

No. 113 is an application for a writ of certiorari to review the same decision of the Court of Appeals of the District of Columbia. The case is reported in 48 D. C. Apps., 437.

The Commissioner of Patents refused to cancel the certificates of registration of a trade-mark consisting of the word "Howard" registered by The Baldwin Company, October 17, 1905, and made a like ruling refusing to cancel the certificate of registration of the word "Howard" arranged in monogram with the initials "V. G. P. Co." registered March 8, 1898, which marks were registered as trademarks for pianos. The appeals were heard together in the District Court of Appeals upon the appeal of the Howard Company.

Proceedings were brought in the Patent Office by the Howard Company against The Baldwin Company to cancel the certificates of registration. It appears that a suit was begun in the District Court of the United States for the Southern District of New York by The Baldwin Company against the Howard Company while the cancelation proceedings were pending, which resulted in a decree in favor of The Baldwin Company restraining the Howard Company from making or selling pianos bearing the word "Howard," but permitting it to use the marks "R. S. Howard Company" and "Robert S. Howard Company." (233 Fed., 439.) This decree was affirmed by the Circuit Court of Appeals for the Second Circuit. (238 Fed., 154.)

The Baldwin Company filed in the Patent Office a certified copy of the record in the Federal courts in New York, and in the Patent Office the Examiner of Interferences and the Commissioner of Patents, on appeal to him, held that the adjudication in the New York courts was a bar to the claim of the R. S. Howard Company to cancel the certificates of registration of the trade-mark "Howard," and dismissed the petition of the Howard Company; thereupon, appeal was taken from the decision of the Commissioner to the Court of Appeals of the District. That court reversed the decision of the Commissioner of Patents, and directed the clerk to certify its decision as required by law.

The application in the Patent Office to cancel the trade-marks was under section 13 of the Trade-Mark Act of February 20, 1905, (33 Stat., 728,) which provides:

SEC. 13. That whenever any person shall deem himself injured by the registration of a trade-mark in the Patent Office he may at any time apply to the Commissioner of Patents to cancel the registration thereof. The Commissioner shall refer such application to the Examiner in Charge of Interferences, who is empowered to hear and determine this question and who shall give notice thereof to the registrant. If it appear after a hearing before the Examiner that the registrant was not entitled to the use of the mark at the date of his application for registration thereof, or that the mark is not used by the registrant, or has been abandoned, and the Examiner shall so decide, the Commissioner shall cancel the registration. Appeal may be taken to the Commissioner in person from the decision of Examiner of Interferences.

The appeal from the decision of the Commissioner to the Court of Appeals of the District was under section 9 of the act, which provides:

SEC. 9. That if an applicant for registration of a trade-mark, or a party to an interference as to a trade-mark, or a party who has filed opposition to the registration of a trade-mark, or party to an application for the cancelation of the registration of a trade-mark, is dissatisfied with the decision of the Commissioner of Patents, he may appeal to the Court of Appeals of the District of Columbia, on complying with the conditions required in case of an appeal from the decision of the Commissioner by an applicant for patent, or a party to an interference as to an invention, and the same rules of practice and procedure shall govern in every stage of such proceedings, as far as the same may be applicable.

A motion is made to dismiss the appeal. No specific provision is made for an appeal from the decision of the District of Columbia Court of Ap-

peals reviewing the decision of the Commissioner of Patents, but the decision is to be certified to the Commissioner to govern further proceedings in the case. (Sec. 4914, Rev. Stats.; 8 U. S. Comp. Stats., sec. 9459.)

If the decision of the Court of Appeals of the District of Columbia is not final, then the motion to dismiss the appeal should be sustained, and we have no authority to grant a writ of certiorari. (Judicial Code, secs. 250–251.)

The nature of proceedings of the character now under consideration was considered in *Frasch* v. *Moore*, (211 U. S., 1,) in which the opinion of Chief Justice Alvey, speaking for the Court of Appeals of the District of Columbia in *Rousseau* v. *Brown*, (21 App. D. C., 73, 80,) explaining the nature of this statutory proceeding and affirming that it did not authorize a judgment but only the return by the court of appeals of a certificate to the Commissioner of Patents, to be there entered of record to govern further proceedings in the case, was fully approved.

In *Atkins* v. *Moore* (212 U. S., 285) application for registration of a trade-mark was refused by the Examiner, which action was approved by the Commissioner, and affirmed on appeal by the Court of Appeals of the District of Columbia, an appeal and writ of error were allowed, both of which were dismissed in this Court. The previous decisions of this Court were reviewed by Chief Justice Fuller, speaking for the Court, and in concluding the opinion he said:

> In the light of the various details of the act of February 20, 1905, and of the specific provisions of section 9, we were of opinion (*Gaines* v. *Knecht*, 212 U. S., 561) that proceedings under the act were governed by the same rules of practice and procedure as in the instance of patents, and the writ of error was accordingly dismissed. The same result must follow in the present case.
>
> Under section 4914 of the Revised Statutes no opinion or decision of the court of appeals on appeal from the Commissioner precludes "any person interested from the right to contest the validity of such patent in any court wherein the same may be called in question," and by section 4915 a remedy by bill in equity is given where a patent is refused, and we regard these provisions as applicable in trade-mark cases under section 9 of the act of February 20, 1905.

We are of opinion that the principle there announced controls this case. No provision is made which permits this statutory proceeding to be carried beyond the decision of the Court of Appeals of the District of Columbia, the decision of which court is directed to be certified to the Commissioner of Patents. It is in no sense a final judgment reviewable here upon writ of certiorari or appeal.

It is true that in *Estate of Beckwith* v. *Commissioner of Patents* (252 U. S., 538) this Court allowed a writ of certiorari from a decision of the Court of Appeals of the District of Columbia, affirming a decision of the Commissioner of Patents, in an application to register a trade-mark. No question of the jurisdiction of the Court was considered in that case, and an inadvertent allowance of the writ of certiorari does not establish the jurisdiction of the court. (*Fritch, Inc.*, v. *United States*, 248 U. S., 458, 463.)

It follows that the appeal must be dismissed, and the petition for a writ of certiorari denied.

So ordered.

Supreme Court of the United States.

AMERICAN STEEL FOUNDRIES *v.* WHITEHEAD, COMMISSIONER OF PATENTS.

Decided April 11, 1921.

TRADE-MARKS—APPLICATION TO REGISTER MARK—JURISDICTION OF SUPREME COURT.

On writ of certiorari to the Court of Appeals of the District of Columbia to review a decision involving an application to register a trade-mark, cause dismissed on the ground that the writ was inadvertently issued for reasons set forth in *Baldwin Company* v. *R. S. Howard Co.*, (286 O. G., 865.)

ON WRIT of certiorari to the Court of Appeals of the District of Columbia.

Mr. George L. Wilkinson and *Mr. Nathan Heard* for American Steel Foundries.

The Attorney-General for the Commissioner of Patents.

Mr. Justice DAY delivered the opinion of the Court.

In this case a writ of certiorari was granted by this Court on October 13, 1919. The case involves an application for the registration of a trade-mark, which was refused by the Examiner in the Patent Office, which decision was affirmed by the Commissioner of Patents, and his decision was affirmed by the Court of Appeals of the District of Columbia. (49 App. D. C., 16.) This case is ruled by Nos. 139 and 113, just decided. As the writ of certiorari in this case, for the reasons stated in the opinion in No. 139, was improvidently granted, it follows that the cause must be dismissed for want of jurisdiction, and it is so ordered.

ADJUDICATED PATENTS.

(U. S. D. C. N. J.) Bill for infringement of the Bogenberger patent, No. 897,449, of 1908, for a sash-pivot mechanism used in connection with pivoted fireproof metal windows that are designed to be swung about a pivot in opening and closing, dismissed on the ground that complainant was barred by laches from maintaining his suit. *Yates* v. *Smith et al.*, 271 Fed. Rep., 27.

(U. S. C. C. A. N. J.) The Bogenberger patent, No. 897,449, for a sash-pivoting device, as limited by amendment of the claims in the Patent Office, *Held* not infringed. *Yates* v. *Smith et al.*, 271 Fed. Rep., 33.

(U. S. C. C. A. N. J.) The Pursglove patent, No. 1,021,476, for a wheel-hub for the front wheel of a child's velocipede, *Held* not anticipated, valid, and infringed. *George W. Travers Co.* v. *A. Mecky Co.*, 270 Fed. Rep., 775.

(U. S. C. C. A. N. Y.) The Ward and Taylor patent, No. 1,104,589, for a gear-grinding machine, *Held* to disclose invention not invalid for double patenting or abandonment and infringed by one of defendant's practices. *Gear Grinding Mach. Co.* v. *Studebaker Corporation*, 270 Fed Rep., 934.

(U. S. C. C. A. N. Y.) The Ward patent, No. 1,155,532, for trimming mechanism for grinder-

wheels of shaft-grinding machines, *Held* valid and infringed. *Gear Grinding Mach. Co.* v. *Studebaker Corporation*, 270 Fed. Rep., 934.

(U. S. C. C. A. N. Y.) The Wilt patent, No. 880,058, for improvements in trunks of wardrobe type, *Held* not infringed. *Charles T. Wilt Co. et al.* v. *William Bal Co.*, 271 Fed. Rep., 73.

(U. S. C. C. A. N. Y.) The Wilt patent, No. 1,000,654, for improvements in suspension-fixtures devised for trunks, *Held* void for lack of invention. *Charles T. Wilt Co. et al.* v. *William Bal Co.*, 271 Fed. Rep., 73.

(U. S. D. C. N. Y.) Preliminary injunction against infringement of the Farber design patent, No. 52,985, for a design for a fern-dish, denied on an answer denying that patentee was the originator of the design. *Farber* v. *Forman & Lerner, Inc.*, 271 Fed. Rep., 92.

(U. S. D. C. Ill.) The Newberry patent, No. 851,247, for waterproofing Portland cement by mixing therewith an insoluble salt of a fatty acid and no glycerin or other like water-attractile substance, *Held* valid in the light of its practical use and infringed by a process using a similar substance in a paste form, whereas in the patented process it was generally used in a powdered form, though it originally was a paste and could be made so again. *Medusa Concrete Waterproofing Co.* v. *Ceresit Waterproofing Co. et al.*, 271 Fed. Rep., 122.

(U. S. D. C. Ill.) The Pfeffer design patent, No. 51,559, for a bathing doll, which consisted of decorating a plaster-of-Paris doll of known design with ordinary one-piece bathing-costume, *Held* invalid for want of invention. *Pfeffer et al.* v. *Western Doll Mfg. Co. et al.*, 271 Fed. Rep., 124.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 27, 1921.

The United States Phonograph Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Pittsburgh Iron Folding Bed Co., 1106 Reedsdale street, Pittsburgh, Pa.; W. P. Mertens Co., Inc., 107 West Main street, Charlottesville, Va., and the Operaphone Co., Inc., Creek and Meadow streets, New York, N. Y., for registration of trade-marks and trade-mark registered May 6, 1913, No. 91,527, to The United States Phonograph Co., and a notice of such declaration sent by registered mail to said The United States Phonograph Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The United States Phonograph Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

Matienzo-Sainz Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of John H. Schroeder, 465 Jackson street, Oshkosh, Wis., and The Cleveland Fruit Juice Company, 1394 West Ninth street, Cleveland, Ohio, for registration of trade-marks and trade-mark registered May 21, 1912, No. 86,607, to Matienzo-Sainz Company, 333 North Water street, Newburgh, N. Y., and a notice of such declaration sent by registered mail to said Matienzo-Sainz Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Matienzo-Sainz Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

The Weaver Brothers and Mott Company of Baltimore City, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Globe Soap Company, Third and Walnut streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 5, 1900, No. 34,749, to The Weaver Brothers and Mott Company of Baltimore City, Baltimore, Md., and a notice of such declaration sent by registered mail to said The Weaver Brothers and Mott Company of Baltimore City at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The Weaver Brothers and Mott Company of Baltimore City, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

The United States Phonograph Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Federal Phonograph Co., Inc., 653 West Fifty-First street, New York, N. Y., for registration of a trade-mark and trade-mark registered April 11, 1911, No. 81,488, to The United States Phonograph Co., 235 The Arcade, Cleveland, Ohio, and a notice of such declaration sent by registered mail to said The United States Phonograph Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The United States Phonograph Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 31, 1921.

Godinez-Marshall Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the General Lamp & Motor Company, Inc., 87 Nassau street, New York, N. Y., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,619, to Godinez-Marshall Company, 257 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Godinez-Marshall Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Godinez-Marshall Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Patents Nos. 1,379,602 to 1,380,336.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 286—No. 5. **TUESDAY, MAY 31, 1921.** **Price—$5 per year.**

[PUBLISHED JUNE 13, 1921.]

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Total	1107		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 27, 1921.

The United States Phonograph Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Pittsburgh Iron Folding Bed Co., 1106 Reedsdale street, Pittsburgh, Pa.; W. P. Mertens Co., Inc., 107 West Main street, Charlottesville, Va., and the Operaphone Co., Inc., Creek and Meadow streets, New York, N. Y., for registration of trade-marks and trade-mark registered May 6, 1913, No. 91,527, to The United States Phonograph Co., and a notice of such declaration sent by registered mail to said The United States Phonograph Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The United States Phonograph Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

Matienzo-Sainz Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of John H. Schroeder, 465 Jackson street, Oshkosh, Wis., and The Cleveland Fruit Juice Company, 1304 West Ninth street, Cleveland, Ohio, for registration of trade-marks and trade-mark registered May 21, 1912, No. 86,607, to Matienzo-Sainz Company, 333 North Water street, Newburgh, N. Y., and a notice of such declaration sent by registered mail to said Matienzo-Sainz Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Matienzo-Sainz Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

The Weaver Brothers and Mott Company of Baltimore City, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Globe Soap Company, Third and Walnut streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 5, 1900, No. 34,749, to The Weaver Brothers and Mott Company of Baltimore City, Baltimore, Md., and a notice of such declaration sent by registered mail to said The Weaver Brothers and Mott Company of Baltimore City at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The Weaver Brothers and Mott Company of Baltimore City, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

The United States Phonograph Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Federal Phonograph Co., Inc., 653 West Fifty-First street, New York, N. Y., for registration of a trade-mark and trade-mark registered April 11, 1911, No. 81,488, to The United States Phonograph Co., 235 The Arcade, Cleveland, Ohio, and a notice of such declaration sent by registered mail to said The United States Phonograph Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The United States Phonograph Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 31, 1921.

Godinez-Marshall Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the General Lamp & Motor Company, Inc., 87 Nassau street, New York, N. Y., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,619, to Godinez-Marshall Company, 257 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Godinez-Marshall Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Godinez-Marshall Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business May 21, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Jan. 5	Dec. 23	632
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Nov. 3	1,475
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Oct. 4	Sept. 29	668
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements: Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	July 16	Feb. 12	1,425
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 3	Oct. 14	628
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions: Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 13	Feb. 26	793
312	7. Games and Toys; Optics; Photography; Velocipedes	Dec. 23	Feb. 7	1,284
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 19	Apr. 12	540
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 8	693
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 6	Feb. 17	979
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings: Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Feb. 19	Mar. 21	397
222	12. Machine Elements	Oct. 20	Feb. 4	953
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 16	Feb. 7	1,463
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Aug. 25	Apr. 7	835
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 1	Sept. 13	1,524
111	16. Radiant Energy; Telegraphy; Telephony	July 28	Oct. 20	1,403
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 1	Feb. 5	736
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Aug. 13	Dec. 7	1,439
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 13	Dec. 14	781
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 13	Jan. 24	1,000
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 20	Mar. 7	457
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Jan. 10	Mar. 24	362
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Sept. 20	Feb. 18	741
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 28	Feb. 28	797
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Mar. 19	Apr. 7	244
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 21	Dec. 31	773
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Jan. 5	Mar. 5	960
225	28. Internal-Combustion Engines	Oct. 29	Jan. 24	1,130
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Oct. 23	Mar. 14	630
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 3	Apr. 4	861
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 19	Oct. 6	1,845
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Aug. 4	Sept. 8	1,088
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 20	Feb. 9	681
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	Apr. 7	Apr. 20	233
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 2	Apr. 7	401
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 14	Dec. 27	1,405
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 2	Nov. 29	1,621
378	38. Animal Husbandry; Earth Boring; Fishing; Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 8	Dec. 16	905
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 28	Sept. 20	1,585
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Oct. 28	Jan. 28	1,048
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 22	Feb. 2	811
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Sept. 22	Oct. 19	1,844
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Aug. 2	Aug. 30	1,200
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 13	Mar. 12	379
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 29	Jan. 26	936
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Nov. 22	Jan. 26	703
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Sept. 28	Dec. 6	1,023
	Oldest new case, June 28; oldest amended, Aug. 30.			
	Total number of applications awaiting action			44,911
103	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 20	Mar. 29	4,878
	Designs	Oct. 11	Dec. 10	2,064
	Labels and Prints	Feb. 16	Apr. 18	487

PATENTS

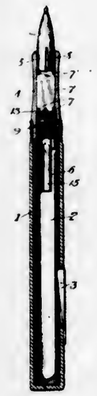
GRANTED MAY 31, 1921.

1,379,602. STYLOGRAPHIC PEN. JULIUS ABEGG, West Hoboken, N. J., assignor to Gordon Pen Company, West New York, N. J., a Corporation of New Jersey. Filed Apr. 19, 1920. Serial No. 375,104. 10 Claims. (Cl. 120—44.)



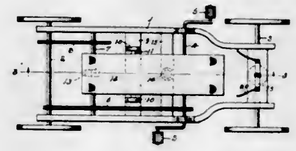
10. In a stylographic pen, the combination with a pen holder, the end of which is adapted to form a main point section provided with an axial cylindrical bore, a supplemental point section also provided with an axial cylindrical bore adapted to be secured within said main point section, a stylus holder having ink feeding grooves frictionally secured within said supplemental section and definitely positioned with respect thereto and air vent communications between all of said sections.

1,379,603. STYLOGRAPHIC PEN. JULIUS ABEGG, West Hoboken, N. J., assignor to Gordon Pen Company, West Hoboken, N. J., a Corporation of New Jersey. Filed June 26, 1920. Serial No. 391,878. 3 Claims. (Cl. 120—44.)



2. A stylographic pen, in combination with a pen holder, of a main point section, a supplemental point section carried thereby, said supplemental point section being provided with a cylindrical bore, a stylus holder positioned partly within the bore of said supplemental point section, that portion of said stylus holder within the bore being substantially flat and of blade-like formation and the part without said section enlarged and provided with ink feeding grooves, an air chamber between the main point section and the supplemental point section, formed by materially reducing the intermediate portion of said supplemental point section, air channels leading from said chambers to the atmosphere, air channels forming communication between the air chamber and the ink reservoir and an air venting aperture connecting the reduced portion of said supplemental point section with the cylindrical bore of said section.

1,379,604. VELOCIPEDE. GEORGE AJOUZ, Detroit, Mich. Filed July 23, 1919. Serial No. 312,723. 5 Claims. (Cl. 208—42.)



1. In a child's vehicle, the combination of a running gear, and means for propelling the vehicle mounted thereon, of a member pivotally mounted upon the running gear intermediate its ends with the axis of the pivot therefor extending transversely of the vehicle, a cam member mounted on the running gear to engage beneath one end of said pivoted member, and means for turning the cam driven by the driving mechanism for the vehicle.

1,379,605. HAT-HOLDER. JUDGE SHIRLOCK ALLEN, New York, N. Y. Filed Aug. 29, 1919. Serial No. 320,625. 1 Claim. (Cl. 45—13.)

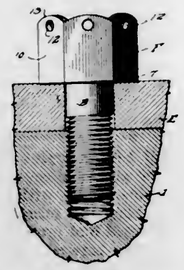


A hat holder, comprising a pair of hooks adapted to be positioned in the under face of an automobile top, and an endless elastic device stretched between the hooks, the two runs of said elastic device adapted to be forcibly spread apart to receive the crown of a hat therebetween when the brim of the hat is located against the automobile top.

1,379,606. LOCKING-SOCKET. CHAUNCEY E. ASHLEY, Syracuse, N. Y. Filed Dec. 26, 1919. Serial No. 347,394. 8 Claims. (Cl. 151—44.)

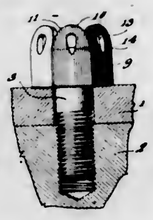
1. As an article of manufacture, a locking socket for polygonal bolt heads or nuts, formed of a single piece of metal providing a perforated base and an integral

polygonal side wall of substantially uniform thickness to embrace, engage and extend beyond the wrench faces of the



element, that portion of the side wall opposite to said base provided with oppositely disposed transverse apertures.

1,379,607. LOCKING-SOCKET. CHAUNCEY E. ASHLEY, Syracuse, N. Y. Filed June 1, 1920. Serial No. 385,819. 4 Claims. (Cl. 181—44.)



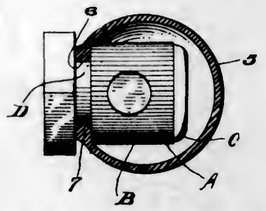
1. In combination with a polygonal head, of a locking socket adapted to fit about the head and having ears extending beyond such head and arranged in convergiug relation whereby to fix the socket to the head and to further act as a guide for a wrench or the like tool.

1,379,608. ERASER AND PENCIL HOLDER. DAVID BAILEY, Salem, Ohio. Filed Oct. 25, 1917. Serial No. 198,532. 2 Claims. (Cl. 120—38.)



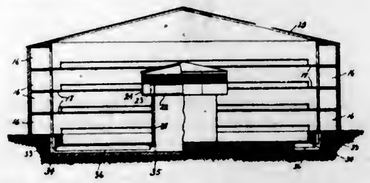
1. A device of the class described comprising a barrel internally threaded at one end and slotted at the other, an eraser carrier movably mounted in said barrel having a thumb piece extending through the said slot, and a removable cap on said barrel adapted to receive an eraser, as and for the purposes described.

1,379,609. PROTECTOR FOR LUBRICATING-CUPS. WILLIAM B. BARRY, Jr., East Orange, N. J. Filed Oct. 9, 1919. Serial No. 329,589. 2 Claims. (Cl. 184—1.)



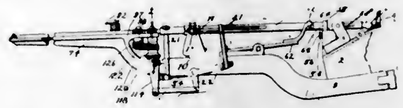
2. A protector for lubricating cups comprising a flexible hollow body adapted to fit over a lubricating cup and having an opening in one end through which said cup may be introduced and removed with respect to the hollow body, said hollow body having a resilient bead at the marginal edge of said opening adapted to bind about the stem of the cup for yieldingly holding the flexible body on the cup and for excluding dust and foreign substances from the interior of the body.

1,379,610. LOCKING SYSTEM. BYRON BARTHOLOMEW, Joliet, Ill. Filed May 5, 1919. Serial No. 294,735. 26 Claims. (Cl. 189—8.)



1. A prison comprising a plurality of cells, a central station from which the interior of each cell is visible, bodily movable mechanical means radiating from the central station and connecting with said cells for simultaneously locking a plurality of said cells.

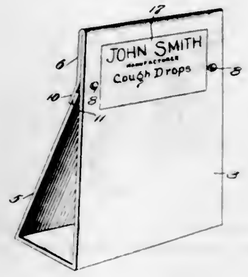
1,379,611. METHOD OF AND MACHINE FOR MAKING NAILS. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 5, 1918. Serial No. 248,348. 42 Claims. (Cl. 10—171.)



3. The method of feeding nail strips to nail making machines which consists in confining a strip so as to bow the strip, and then relieving the strip from confinement so that the elasticity of the strip straightens the strip and projects its end forward to facilitate the advancing of the strip, and then advancing the strip.

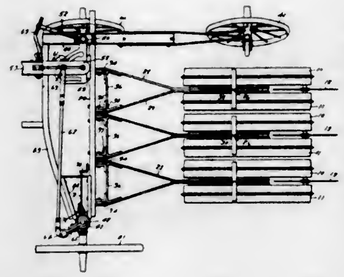
16. In a machine of the class described, means for operating on a nail strip, means for presenting a strip to the operating means, means for confining a plurality of strips so as to bow the strips, a feed roll spaced from said confining means by a distance such as to permit the passage of the end of a strip from the forward side of the group of strips between said feed roll and said confining means, a pivoted plate operable on the rear side of the group of strips for moving an end of the first strip on the forward side of the group of strips into the space between the feed roll and the confining means, and a spring-operated member having a part operatively related to said plate.

1,379,612. DISPLAY-EASEL. MARTIN E. BAYER, Allentown, Pa. Filed Apr. 3, 1920. Serial No. 370,918. 2 Claims. (Cl. 40—149.)



1. As a new article of manufacture, a display easel formed from a blank sheet of material comprising a display plate having a folded flange formed upon the rear face thereof and near the upper end of said display plate, detachable fasteners for holding said flange in firm engagement with the rear face of said display plate, said fasteners engaging said flange at a distance from the lower edge thereof, said display plate provided with a rearwardly extending base, said rearwardly extending base provided with an upwardly extending forwardly inclined rear brace adapted to fit under said folded flange for bracing said display plate and holding said display easel in an assembled position, and said flange and display plate provided with elongated apertures for receiving said fasteners and holding said fasteners against rotation.

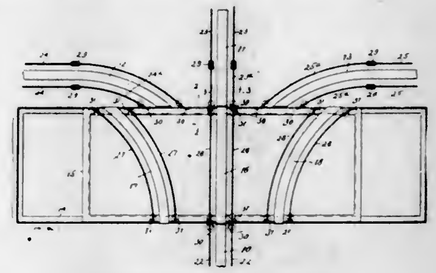
1,379,613. WHEEL-COLTER. LOUIS K. BENEDICT, Hastings, Fla. Filed June 30, 1920. Serial No. 393,074. 6 Claims. (Cl. 97—43.)



1. A wheel colter comprising a draw frame and a plurality of weighted cutting sections in parallel arrangement transversely of the line of draft pivotally connected to the frame independently of each other.

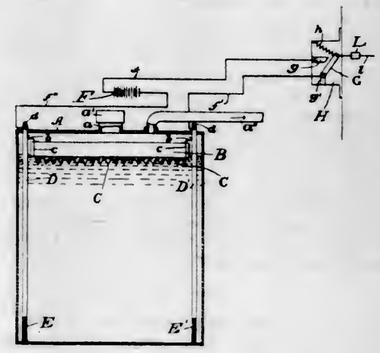
1,379,614. OVERHEAD-CARRIER SYSTEM. EARL T. BENNINGTON, Colonial Heights, Ohio. Filed Oct. 11, 1920. Serial No. 416,149. 10 Claims. (Cl. 191—38.)

1. In a carrier system, a movable switch member having a switch rail, stationary rails on opposite sides of the switch member and adapted to be connected by the switch rail, trolley wires extending along the rails, the trolley wire along the rail on one side of the switch having a section next to the switch normally electrically disconnected from the remainder of the trolley wire, and means whereby said normally electrically disconnected section



of the trolley wire may be supplied with current when the switch is in a position such that the switch rail connects the rails on opposite sides of the switch.

1,379,615. AUTOMATIC FIRE-EXTINGUISHING APPARATUS. WILLIAM G. BOTTOM, Kansas City, Mo. Filed Jan. 13, 1919. Serial No. 270,954. 5 Claims. (Cl. 169—5.)



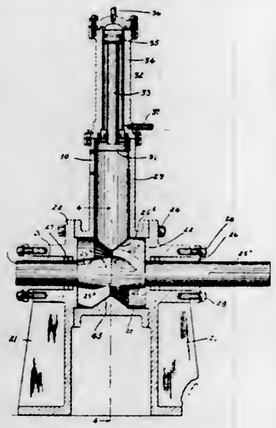
4. An automatic fire-extinguishing apparatus, comprising a receptacle adapted to contain a chemical liquid capable of yielding a non-combustible gas, vertical electric conductors in the receptacle and having insulators at their lower ends, a float carrying an electric heater, contact pieces connecting with the heater and bearing on said conductors, means for supplying current to the heater and means actuated by heat of a fire for turning on the current and a gas discharge pipe leading from the receptacle and connecting with branch pipes leading to a store or stores of combustible material, whereby a smothering gas may be spread in blanket form over said material.

1,379,616. MACHINE FOR TREATING RUBBER AND SIMILAR MATERIAL. DAVID R. BOWEN and CARL F. SCHNUCK, Ansonia, Conn., assignors to Farrel Foundry and Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed Sept. 14, 1917. Serial No. 191,413. 49 Claims. (Cl. 18—2.)

1. In a machine of the character described, a mixing chamber, and a bladed element in said chamber, said bladed element coöperating with the walls of the chamber to mash the treated material against said chamber walls and to extrude it from one portion of the chamber into another, and back again, alternately.

2. In a rubber masticator, the combination of a working chamber having a constricted portion, and a rotor working in said chamber to force the material from one end portion

thereof through said constricted portion into the other end portion, and back again.

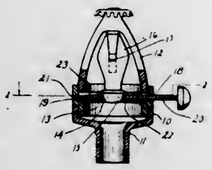


3. In a rubber masticator, a working chamber constricted at its intermediate portion, and a working element in said chamber extending through said constricted portion of the chamber, and constructed and arranged to extrude the treated material through the constricted portion of the chamber in opposite directions.

4. In a machine of the character described, a working cylinder having a constriction therein, and a rotor in said cylinder extending through said constriction, and having blades constructed and arranged to force the material alternately from one end portion of the cylinder into the other and back again.

5. In a machine for mixing materials, a mixing chamber, a rotor operable therein, said chamber and rotor provided with coöperating means to cause a mixing extrusion of said materials.

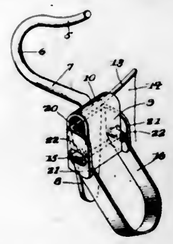
1,379,617. SPRINKLER-HEAD SHUT-OFF. JOHN DAVIDSON, Providence, R. I. Filed Dec. 18, 1919. Serial No. 345,884. 8 Claims. (Cl. 169—37.)



8. A sprinkler-head comprising a body portion having a contracted discharge opening through it, a main closure member therefor, said body being provided with a transverse slot through it and a plate slidably mounted in said slot provided with an opening through which said main closure extends to its seat, said plate being adapted to be moved only after said closure has been removed therefrom.

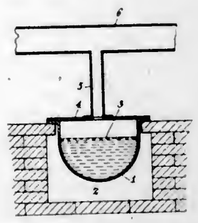
1,379,618. CLOTHES-WRINGING ATTACHMENT FOR WASHTUBS. CLAUDE B. DAVIS, Richmond, Va. Filed Sept. 22, 1920. Serial No. 412,004. 3 Claims. (Cl. 68—32.)

2. A tub engaging clamp for clothes wringers including spaced arms, and a connecting bight portion, a movable clamping jaw disposed between the arms, a lever under the influence of which the clamping jaw is movable into clamping relation to one of the arms and a single means



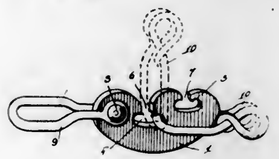
carried by the other arm for pivotally connecting the cam lever and slidably connecting the clamping jaw therewith.

1,379,619. FUSION PROCESS. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Aug. 31, 1918. Serial No. 252,225. 11 Claims. (Cl. 266—34.)



1. In a process involving the fusion together of a mixture of materials of the character described, so as to produce a chemical reaction between said materials the step which consists in blanketing the fushion mixture with flue gases, substantially as described.

1,379,620. LOCKING-LINK. ARTHUR W. FISHER, Pultneyville, N. Y. Filed Sept. 9, 1919. Serial No. 322,675. 7 Claims. (Cl. 24—230.5.)



4. A locking link comprising a single piece of metal having a hole therein and having a slot cut into one side thereof and forming an entrance thereto, a closed link having one end engaging said hole and the other end spanning the end of the link, the ratio of the length of the closed link and the length and width and shape of the locking link being such that the closed link can be released from the locking link only when it is in an upright position, extending upwardly from the hole.

1,379,621. GATE. BENJIMAN FRANKLIN GOCHENOUR, Maurertown, Va. Filed Apr. 19, 1920. Serial No. 374,955. 1 Claim. (Cl. 39—36.)

The combination with spaced apart posts of a gate panel hinged upon a vertical axis to one of said posts and proportioned to swing between said posts, a latch pivoted to the panel and appropriately pivoted to interlatch with the post opposite the hinging, a plate pivoted to the panel upon an axis approximately in alinement with the pivot of the panel, an arm formed integral with the plate extending in alinement with the panel, a connection from the arm to the latch whereby a rotary movement of the

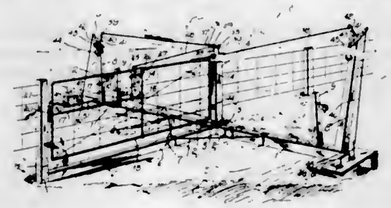
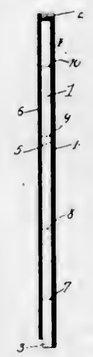


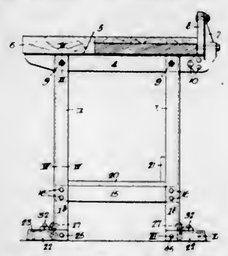
plate lifts the latch to the limit of its verical movement and further rotation of the plate through the medium of the arm and latch connection will rotate the gate in either direction and actuating mechanism disposed at either side of the panel.

1,379,622. RIM-BOARD. WILLIAM F. GRUPE, North Bergen, N. J., and ALLAN A. ADAMSON, Brooklyn, N. Y. Filed June 17, 1918. Serial No. 240,425. 4 Claims. (Cl. 93—36.)



1. The method of forming a foldable box part comprising providing a strip of paper board; applying finish paper thereto; severing the board strip and finish paper to provide a skived end, the length of the severed finish paper being substantially equal to the perimeter of the box part whereby the severed edge of the finish paper is coincident with one of the severed edges of the skived end of the board strip, and thereafter folding the obtained length of board strip and finish paper applied thereto to cause said skived end to engage the opposite end of said board strip.

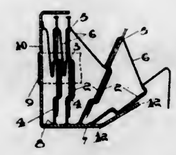
1,379,623. METAL BENCH-LEG. HOWARD T. HALLOWELL, Philadelphia, Pa. Filed Aug. 9, 1919. Serial No. 316,357. 2 Claims. (Cl. 144—286.)



1. A bench leg comprising a channel section having a central web with flanged sides substantially at right angles

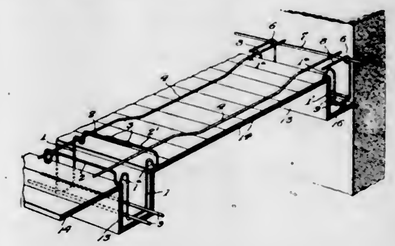
to the web, a supporting member horizontally disposed having a depending flange; said leg being slotted for the reception of the flange of said supporting member and having its flanged sides inturned to underlie the horizontal portion of said supporting member, and means for rigidly securing said parts together.

1,379,624. PIN-PACKAGE. THOMAS HARRISON, Weston, Ontario, Canada. Filed Mar. 27, 1920. Serial No. 369,310. 10 Claims. (Cl. 206—66.)



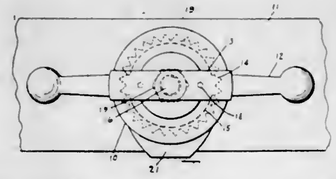
1. A pin package comprising an integral paper strip folded to form a series of double pin holding folds through which pins may be stuck, and also folding hinges extending from the top of each fold to a point adjacent the top of the next fold, said pin holding folds normally lying parallel to one another and in close juxtaposition, with the hinge members doubled on themselves between their folds.

1,379,625. REINFORCED CONCRETE CONSTRUCTION. RUDOLPH B. HARTMAN, Milwaukee, Wis. Filed July 5, 1918. Serial No. 243,462. 4 Claims. (Cl. 72—122.)



1. In reinforced concrete construction, supports for reinforcing rods extending longitudinally through the floor beams or girders, comprising stirrups having a loop portion adapted to extend within a mold-form and provided with outwardly diverging arms adapted to rest upon the form-mold at the side of the beam, and said arms having eyes or loops formed therein to receive connecting rods or reinforcing members.

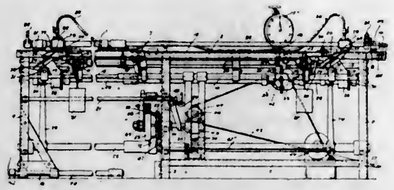
1,379,626. RADIATOR-CAP. CHARLES C. HIMES, Indianapolis, Ind. Filed Oct. 2, 1920. Serial No. 414,192. 6 Claims. (Cl. 220—39.)



1. The combination with a radiator cap for an automobile having a mounting thereon, of means for adjustably securing said cap to said radiator, whereby said mounting will be properly positioned with respect to said automobile and radiator, including a threaded insert member

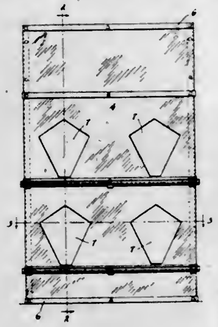
adapted to be screwed upon said radiator, and means for rotatably adjusting and securing said insert member within said radiator cap in fixed relation thereto.

1,379,627. METHOD AND APPARATUS FOR CUTTING PLASTIC MATERIAL. RUDOLPH HOLMES and ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignors to Morgan & Wright, a Corporation of Michigan. Filed Feb. 26, 1920. Serial No. 361,474. 23 Claims. (Cl. 18—2.)



1. In the manufacture of tire treads from plastic rubber composition, shaping the treads to a desired gage, cutting to length slightly longer than desired, and simultaneously beveling their opposite ends substantially in parallelism and to the exact length desired.

1,379,628. NEST-BOX FOR HENS. ARNOLD ISCHE, Norwood, and ALBERT ISCHE, Hamburg, Minn. Filed Dec. 1, 1919. Serial No. 341,724. 5 Claims. (Cl. 119—45.)



1. A nest box for hens having two laterally spaced nests, a nest-supporting bar extending between said two nests, a door opening in the box in front of each nest, said door openings having upwardly diverging sides, and a transverse partition secured to the supporting bar and having upwardly converging edges spaced apart from the front and rear walls of said box.

1,379,629. IGNITION-TIMER. EDWARD B. JACOBSON, Pittsfield, Mass., assignor to J. & B. Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Original application filed Nov. 8, 1918, Serial No. 261,607. Divided and this application filed Aug. 17, 1920. Serial No. 404,179. 3 Claims. (Cl. 200—19.)



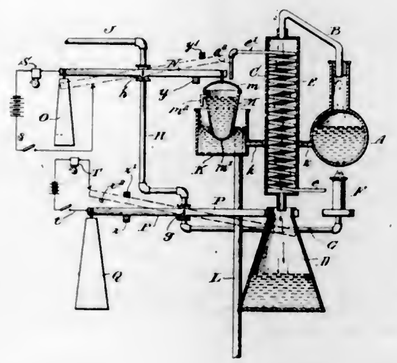
1. An ignition timer having a rotor mounted to rotate upon an axis and having a jaw with openings in its sides, a roller mounted in and arranged to travel with said jaw, and a roller journal having a hardened bearing portion for supporting the roller and having reduced terminal extensions extending into said openings in the jaw, at least one of said terminal extensions and its corresponding opening in the jaw having coöperating peripheral locking means for retaining the roller journal rigid with said jaw.

1,379,630. TEMPLET. HEINRICH JOST, Kreuzlingen, Switzerland, assignor to Emil Rutishauser, Kreuzlingen, Switzerland. Filed Dec. 31, 1918. Serial No. 269,066. 1 Claim. (Cl. 33—5.)



In a templet of the character set forth, in combination, a templet body proper, marking members adapted to be relatively displaceably secured to said templet body, each comprising a triangular base plate, prongs rectangularly extending from said base plate and obtained by bending-over the pointed apexes of said triangular plate, and a marking stud extending centrally from said base plate in a direction opposed to that of said prongs.

1,379,631. WATER-DISTILLING APPARATUS. CHARLES EDMUND KELLS, New Orleans, La. Filed July 26, 1920. Serial No. 398,859. 6 Claims. (Cl. 203—5.)

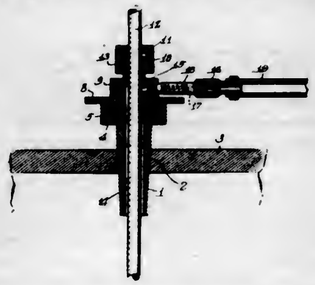


1. A distilling apparatus, comprising a still, a burner for heating it, means for supplying fuel to the burner, a condenser connected with the still, a receiver for distilled water, means for automatically cutting off the fuel supply when the desired amount of distilled water is obtained, and means for actuating a signal when the fuel supply is thus stopped.

1,379,632. TAPPING DEVICE FOR RECEPTACLES. FRANK KIRBY, Flint, Mich. Filed Nov. 7, 1919. Serial No. 336,426. 2 Claims. (Cl. 217—99.)

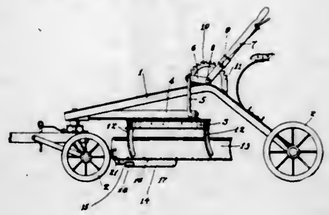
1. A tapping device comprising an exteriorly screw-threaded tapering stem adapted to enter a small hole, an exteriorly screw-threaded head carried by the outer end of said stem and adapted to enter a hole comparatively larger than the hole for said stem, said head and stem

having a bore therein through which is adapted to extend a tube of less diameter than the bore, and a check valve



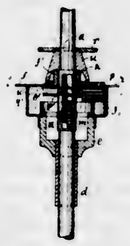
body communicating with the outer end of the bore and adapted to admit a fluid under pressure to said bore.

1,379,633. GRADING APPARATUS. ANDERS H. KOPERUD, Oakland, Calif. Filed Jan. 5, 1920. Serial No. 349,389. 4 Claims. (Cl. 37—7.)



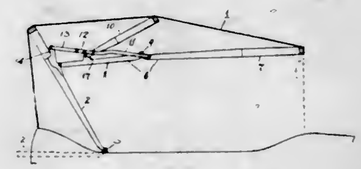
1. An apparatus for excavating a trench at the side of a permanent highway base, the same comprising a vehicle, a blade supporting member rigidly suspended therefrom, means between the blade and vehicle and adapted for operation to permit of angular adjustment relatively to the direction of travel of the vehicle and laterally relatively to the highway base, an excavating member depending rigidly from the lower edge of the blade, guide means associated with the forward end of the member for riding on the side edge of the highway base, and a shoe associated with said member in proximity to said guide means for riding on the surface of the highway base to limit the depth of cut of said member.

1,379,634. SPINDLE FOR DOUBLING AND SPINNING. JOHN KRAINK and FREDERICK KRAINK, Paterson, N. J. Filed Feb. 16, 1920. Serial No. 358,840. 2 Claims. (Cl. 118—49.)



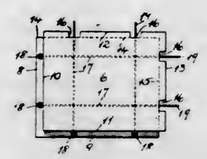
1. In combination, a fixed structure having a gear device, a spindle proper journaled upright in said structure, a flier fixed on the spindle proper, a rotary gear device including a barrel pinion and journaled in the spindle proper on an axis transverse thereto, gearing connecting the two gear devices with each other and journaled in the spindle proper, and a spool supporting member journaled on the spindle proper above the barrel pinion and having teeth on the under side thereof in mesh with said barrel pinion.

1,379,635. TOP FOR VEHICLES AND THE LIKE. FRED K. LEWIS, Ashtabula, Ohio. Filed Mar. 29, 1919. Serial No. 286,123. 5 Claims. (Cl. 296—116.)



1. In a top for vehicles and the like, the combination of a main bow; a two-part articulated auxiliary bow having its rear portion pivotally connected to said main bow; a supplemental bow pivotally connected to such rear portion of said auxiliary bow; a link pivotally attached to said supplemental bow and to said auxiliary bow beyond the joint therein; and a flexible member connecting said link with said main bow.

1,379,636. BUILDING SLAB OR TILE. TIMOTHY LYDON, Baltimore, Md. Filed July 15, 1918. Serial No. 244,691. 2 Claims. (Cl. 72—40.3)



1. A building slab or tile having, at a plurality of sides, edges which project from the outer face and extend laterally beyond the inner face of the tile and also having, at a plurality of other sides, additional edges which project from the inner face and extend laterally beyond the outer face of said tile, whereby to form overlapping and underlapping projecting edges at different sides of the tile and said tile having a notch cut entirely through the edges which project from the inner face and extend beyond the outer face and provided at the inner side of the edges that project beyond the outer face with a projecting loop or eye.

1,379,637. CARTRIDGE-EXPLOSIVE. EDWARD S. MCKINLAY, Denver, Colo. Filed Jan. 16, 1917, Serial No. 142,705. Renewed Oct. 23, 1920. Serial No. 419,073. 4 Claims. (Cl. 102—7.)



1. The herein-described explosive cartridge comprising a main retainer, means for holding within the main retainer two reagents separted from each other but adapted to rapidly produce large volumes of highly explosive gas, means for causing the two reagents to come into contact,

and optionally controllable devices within the main retainer for causing the explosion of the gas after it has been evolved therein and acting independently of the last said means, substantially as set forth.

1,379,638. ADJUSTABLE LIGHT-SUPPORT. FRANK X. MAIER, Sterling, Ill. Filed Feb. 17, 1920. Serial No. 359,222. 2 Claims. (Cl. 248—1.)

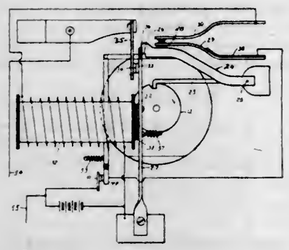


1. A support for electric lights comprising a pair of telescopical engaging members, said members being substantially rectangular in cross section, the hollow member being provided with a longitudinal slot so as to allow the frictional binding of the hollow member upon the surfaces of the other member, a clamp carried by the inner end of the outer member and supported by a lug extending through the longitudinally disposed slot and adapted to be moved longitudinally therein, a clamp carried by the outer end of the outer member, said clamps of the outer member forming means for supporting an electric light and its wires, a universal supporting means for supporting one end of the light support as a whole, and spring actuated friction disks disposed in an aperture of the outer member for frictionally engaging the walls of the inner member.

1,379,639. MANUFACTURE OF ADHESIVES. JAMES DONOVAN MALCOLMSON, Wilkinsburg, Pa., assignor, by mesne assignments, to The Container Club, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1918. Serial No. 222,415. 4 Claims. (Cl. 87—17.)

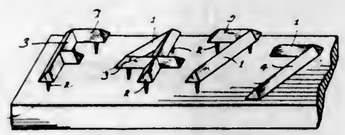
1. The method of increasing the volume of water glass without impairing its adhesive properties, which comprises adding brine to the water glass, and redissolving in the water glass the silica coagulated by the addition of brine; substantially as described.

1,379,640. ELECTRIC-SWITCH LOCK. EDWARD J. MAPLE and CYRIL J. MAPLE, Grafton, Ohio, assignors of one-third to Frank M. Stevens, Elyria, Ohio. Filed Oct. 11, 1919. Serial No. 330,088. 11 Claims. (Cl. 200—45.)



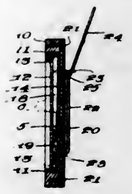
1. In switch locks, a main switch, a magnet for operating said main switch, an auxiliary switch in the circuit of said magnet, a disk having a notch, an arm associated with said auxiliary switch adapted to enter said notch, and means on said main switch adapted to prevent the said arm entering the notch in the open position of the main switch.

1,379,641. PATTERN LETTER AND NUMERAL. HARRY PENCE MAUGHLIN, Columbus, Ohio. Filed Oct. 20, 1917. Serial No. 197,584. 1 Claim. (Cl. 22—195.)



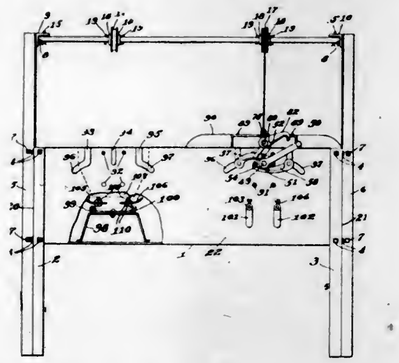
Pattern letters comprising body portions, and at least three points on the under surfaces of said body portions, said points being of such length and so spaced that the letters will stand up without tipping before being forced into the pattern.

1,379,642. DUPLEX PICTURE. FRED MEEKS, Los Angeles, Calif. Filed Sept. 9, 1920. Serial No. 409,147. 14 Claims. (Cl. 40—61.)



4. A device of the class described comprising a frame, a transparent front panel for the frame, a closure for the back of the frame having a plurality of scenes depicted thereon in reverse positions and paque shiftable finely divided material between said back portion and the panel and adapted to alternately cover one of the scenes.

1,379,643. PASTRY-MAKING MACHINE. JULIUS B. MELTZ, Everett, Mass., assignor to The Everett Machine and Manufacturing Company, Everett, Mass., a Corporation of Massachusetts. Filed June 24, 1919. Serial No. 306,356. 21 Claims. (Cl. 107—66.)



6. In a pastry machine, a mold comprising a flask having a central fixed member and movable members disposed on either side thereof and pivoted thereto, said members each being provided with half mold depressions on their meeting faces, means for simultaneously moving said pivoted members toward and away from said fixed member to close and open said flask, said moving means being constructed and arranged to hold the parts locked in closed position, and a core plate having projecting cores adapted to enter said mold.

10. In a pastry machine, a mold having a flask member, a core plate pivoted thereto, and a device for locking said core plate to said flask member under pressure comprising an eccentric cam pivoted to said core plate, a handle for operating the cam and a locking dog actuated by said cam and adapted to engage a portion of said flask.

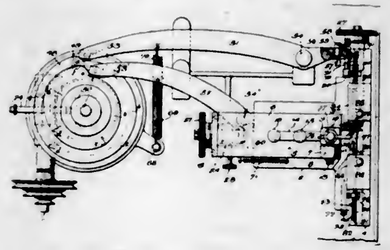
14. In a pastry machine, a frame comprising a sheet metal oven, angle bar supports therefor bolted to said oven at its vertical edges, a heat insulating lining for said oven, a mold removably supported in said oven and a removable cover for closing that side of said oven through which the mold is inserted.

1,379,644. SHUTTER CONSTRUCTION FOR MOTOR-VEHICLE RADIATORS. LUTHER A. MENGES and WARREN W. SIMPSON, Indianapolis, Ind., assignors to La Fayette Motors Company, Indianapolis, Ind., a Corporation. Filed Jan. 23, 1920. Serial No. 353,564. 5 Claims. (Cl. 257—132.)



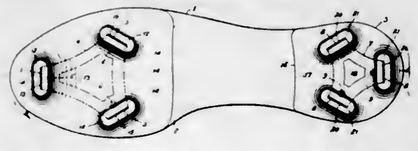
1. In a radiator shutter construction the combination of a radiator shell provided with the usual air opening and spaced from a radiator core adjacent said opening, a shutter frame comprising a plurality of pivoted shutters and means for swinging the same, and adjustable means supporting said shutter frame upon the interior of said radiator shell adjacent the air opening.

1,379,645. STAFF-LATHE. RAYMOND G. MOORE, Utica, N. Y., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 8, 1920. Serial No. 364,233. 8 Claims. (Cl. 82—2.)



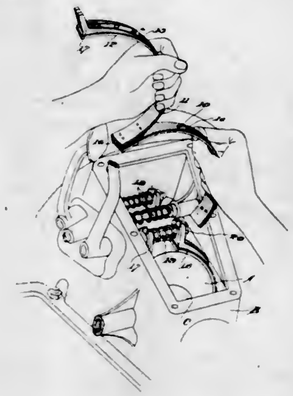
4. A staff lathe comprising a frame, a work-holding slide movable thereon, head and tail stocks adjustably mounted on the slide to move therewith, and means for moving the slide.

1,379,646. SHOE-SPIKE GUARD. CURT B. MUELLER, West Park, and HERMAN EISELE, Cleveland, Ohio; said Eisele assignor to said Mueller. Filed Dec. 19, 1919. Serial No. 346,157. 21 Claims. (Cl. 36—59.)



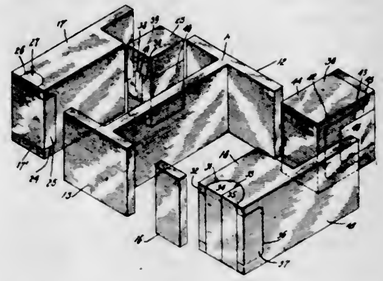
1. A shoe comprising the combination of a tread portion, spikes projecting therefrom, and an auxiliary tread provided with projections adapted to serve as guards each entirely surrounding one of said spikes.

1,379,647. TRANSMISSION-BAND. WILLIAM C. NEWBOLD and GEORGE ED. LENTZ, Cincinnati, Ohio. Filed June 18, 1919. Serial No. 305,025. 2 Claims. (Cl. 188—249.)



1. A transmission band for use on drums housed in casings, comprising arcuated sections, means for hingedly connecting the sections together to form a complete band, a fixed coupling member on one end of the band, and a removable coupling member on the other end of the band adapted to be removed for threading the band by swinging the sections on one another about the drum and between the same and the casing.

1,379,648. TOY FURNITURE SET. GOTTFRIED NIEBEL, New York, N. Y. Filed Mar. 29, 1920. Serial No. 369,600. 2 Claims. (Cl. 46—35.)

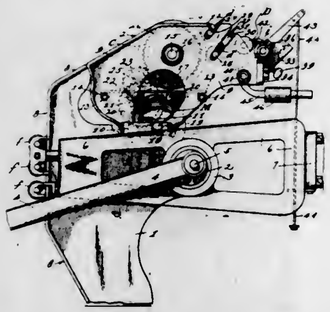


2. A set of toy bed-room furniture, including a bedstead having legs, and two sets of furniture elements, each set being nested to form a quadrangular block, one of said blocks snugly fitting within said bedstead above the bed bottom and the other one below said bed bottom between said legs, the elements of the set when so nested forming a quadrangular priam.

1,379,649. INKING MECHANISM FOR PRINTING-PRESSES. ROBERT S. PHILIP, Los Angeles, Calif. Filed Apr. 26, 1919, Serial No. 294,002. Renewed Apr. 16, 1921. Serial No. 461,918. 2 Claims. (Cl. 101—360.)

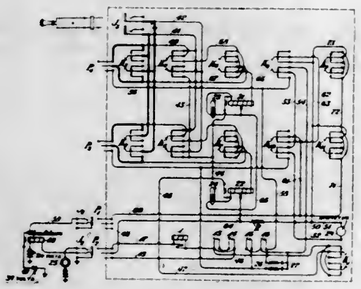
1. In a printing press, the combination with the movable bed and form rollers supported thereon, of extensions carried on said bed, an inking cylinder rotatably held between and on said extensions, a driving element supported on said extensions, a reduction gearing train operably connecting said driving element with said cylinder, distributing rollers movably engaging the periphery of said

cylinder, a vibrator roller movably engaging said distributing rollers, an inking mechanism including a roller for



supplying ink to said vibrator roller, and a ductor roller movably disposed intermediate said inking roller and said vibrator roller.

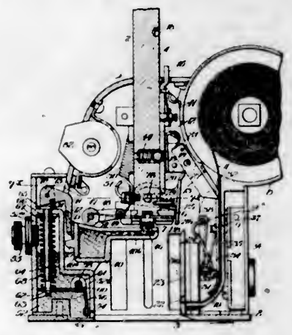
1,379,650. TESTING APPARATUS FOR MESSAGE-REGISTERS. WILLIAM A. RHODES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 27, 1919. Serial No. 307,073. 5 Claims. (Cl. 179—6.3.)



1. A subscriber's telephone line terminating at a jack at a switchboard, message register apparatus associated with said line at said switchboard, apparatus for testing said message register, means for connecting said testing apparatus directly with the jack of said subscriber's line, said testing apparatus including means for completing a circuit for said message register and means for interrupting said circuit a desired number of times, said interrupting device comprising an electro-magnet, an armature, a pawl attached to said armature, a ratchet wheel operated by said pawl, a plurality of cams controlled by said ratchet wheel, and a plurality of spring contacts controlled by said cams, said spring contacts controlling the duration of operation of said interrupting device and controlling said circuit for said message register.
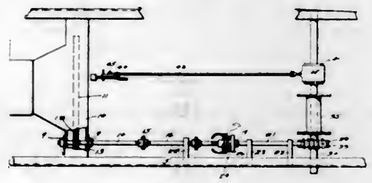
1,379,651. STAMP-AFFIXER. WILLIAM F. SCHWEIGER, Rochester, N. Y., assignor to Multipost Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 26, 1918. Serial No. 255,732. 33 Claims. (Cl. 216—2.)

1. In a stamp affixer, the combination of a casing, a plunger adapted to reciprocate therein, means actuated by the plunger for feeding a stamp, means for pressing the stamp on a surface adapted to receive the same, a plurality of printing types on the plunger adapted to print on the



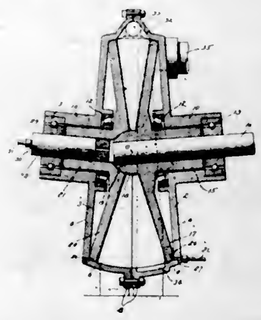
stamp, means for inking said types, and devices controlled by said inking means for moistening said surface.

1,379,652. HOISTING ATTACHMENT FOR AUTO-TRUCKS. JULIUS J. SEIBERT, VICTOR SEIBERT, and WILLIAM SEIBERT, McKeesport, Pa. Filed Sept. 3, 1920. Serial No. 407,847. 1 Claim. (Cl. 298—21.)



The combination with a truck having an engine of the character specified wherein the fly wheel of the engine is toothed for engagement with a starter, of an oil tight housing inclosing said fly wheel, bearings carried by said housing, a shaft supported for rotation in said bearing and projecting from the interior of said housing to the exterior thereof, a pinion upon said shaft within the housing engaged with the teeth of the fly wheel, a tiltable body, a drum, a cable engaging the drum and the tiltable body and a worm drive between the shaft and said drum.

1,379,653. ROTARY ENGINE. ALVIN H. SHOEMAKER, Oakland, Calif. Filed June 13, 1917, Serial No. 174,768. Renewed Sept. 7, 1920. Serial No. 408,771. 9 Claims. (Cl. 121—69.)

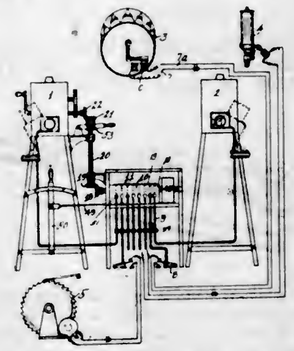


1. A motor of the type described comprising a casing, a pair of revoluble disks mounted in said casing, said disks having angularly disposed axes, intermeshing continuously

contacting abutments on the faces of said disks inclosing expansion cavities, and said casing having an intake orifice and a discharge passage for communicating with said cavities.

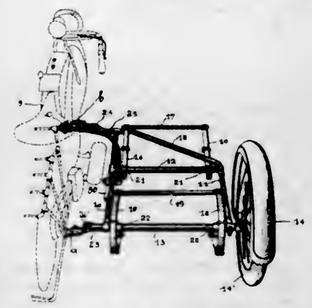
7. A motor of the type described, a pair of conical faced revoluble disks having angularly disposed axes and having their apexes meeting in the point of intersection of said axes, intermeshing abutments integrally formed on the faces of said disks, curved faces of said abutments which remain in contact at all points in the revolutions of said disks, a casing inclosing said disks, an intake opening, and an exhaust passageway communicating with said cavities at their points of least and greatest expansion.

1,379,654. STAGE-EFFECT-CONTROLLING DEVICE FOR USE IN CONJUNCTION WITH MOTION-PICTURE MACHINES. FRANK R. SOMMERMEYER, Minneapolis, Minn. Filed Aug. 5, 1916. Serial No. 113,397. 2 Claims. (Cl. 88—16.2.)



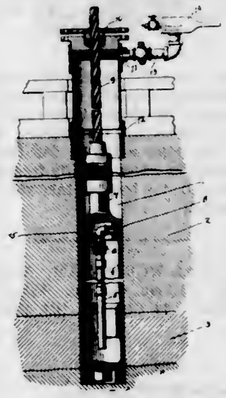
1. The combination of a plurality of stage-effect-producing devices, of a tube for each of the devices, a bellows for each tube controlling the operation of the device, exhaust producing means for exhausting the air from the tube and bellows connected therewith, a tracker board having conduits into which the tubes extend, a perforate strip movable across the tracker board to open the conduits at predetermined intervals to atmosphere, a valve member extending longitudinally of the tracker board having apertures therethrough for each of the conduits of the tracker board adapted to be turned to close or open all of the said tubes, and a valve member for each tube of the tracker board by means of which it may be manually opened to atmosphere.

1,379,655. SIDE-CAR ATTACHMENT FOR MOTORCYCLES. GOTTFRIED STETTLER, Goshen, Ind., assignor to National Dairy Machine Company, Goshen, Ind., a Corporation of Indiana. Filed July 18, 1919. Serial No. 311,758. 17 Claims. (Cl. 208—45.)



1. The combination with a motor-cycle frame, of a side-car comprising a frame having operative connection with said motor-cycle frame; a connecting member having one end connected with said motor-cycle frame at a point spaced vertically from said side-car frame; and a V-shaped spring interposed between and connecting the opposite end of said connecting member with said side-car frame at a point spaced laterally from the motor-cycle frame.

1,379,656. METHOD FOR PREVENTING CAVING IN WELLS. JOHN C. SWAN, Marietta, Ohio. Filed Sept. 30, 1919. Serial No. 327,564. 4 Claims. (Cl. 166—21.)

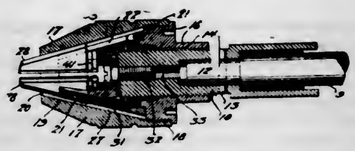


1. The method of preventing caving in drilled or drilling wells which consists in first drying the wall of the well at that portion where caving is likely to occur or has occurred and then applying a protective coating to such dried portion.

1,379,657. METHOD OF EXCLUDING EXTRANEOUS FLUIDS FROM WELLS. JOHN C. SWAN, Marietta, Ohio. Filed Oct. 29, 1919. Serial No. 334,250. 5 Claims. (Cl. 166—21.)

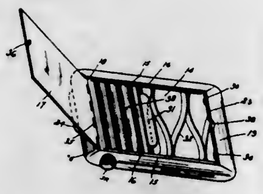
1. The method of preventing the flow of water from a water-bearing stratum, which consists in filling the interstices and crevices of such stratum by forcing thereinto the vapor of a substance which will solidify upon cooling to form a seal against the further entrance of water.

1,379,658. CHUCK. WILFRED E. TAIT and WILLIAM MILNES, Winthrop, Mass. Filed Jan. 20, 1920. Serial No. 352,853. 2 Claims. (Cl. 279—69.)



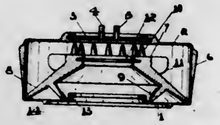
1. A chuck of the character described including a rotatable stem; a head in longitudinal screw threaded connection with said stem and having a shell secured thereto, said shell having a tapered inner surface; a cup rotatably secured to the inner end of said stem; jaws longitudinally slidable within said shell and transversely slidably connected to said cup, said head having an annular centering flange projecting into said shell; and a hollow frusto-conical retainer having slots therein in which said jaws are positioned, said retainer having a part fitting over said centering flange whereby the retainer is kept in central position but may be readily separated from the head; substantially as described.

1,379,659. CIGARETTE-CASE. RUSSELL A. TALBOT, Cranston, R. I. Filed Jan. 22, 1920. Serial No. 353,293. 6 Claims. (Cl. 206—41.)



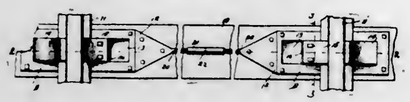
1. A case of the character described comprising a body portion having inturned side edges providing a groove or channel of substantial depth on either side to receive and guide the ends of articles laid transversely therein, means for discharging the articles one by one from the end of the body, and means for automatically feeding the remaining articles forward in the body to take the place of those discharged therefrom.

1,379,660. SURGICAL WOUND-DAM. WALTER HERBERT TAYLOR, Guelph, Ontario, Canada. Filed July 8, 1920. Serial No. 394,830. 11 Claims. (Cl. 128—248.)



1. In a wound dam, the combination of a thin annular rubber floor; and a rubber stretching device engaging the upper surface of the floor and adapted to stretch said floor both inwardly and outwardly.

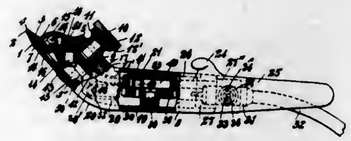
1,379,661. COMBINED RAIL CHAIR AND ANTI-SPREADING DEVICE. WILLIAM J. THEBAULT, Sydney Mines, Nova Scotia, Canada. Filed May 15, 1919. Serial No. 297,442. 1 Claim. (Cl. 238—288.)



A combined rail chair and an antispreading device comprising tie engaging end plates, means for adjusting said plates toward each other, each of said plates having an undercut opening extending longitudinally thereof, a rail clamping element rigidly carried by the plate outwardly of the opening, a second rail clamping element separate from the plate and extending through the opening therein, and having an enlarged lower end portion extending into the undercut portion of the opening to hold the clamping element against upward movement, means for securing the second clamping element to a tie, and means for securing the plate to a tie.

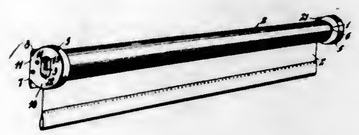
1,379,662. BARBER'S HAIR-CUTTING MACHINE. EPIFANIO V. N. TOMASULO, Cincinnati, Ohio. Filed Oct. 8, 1919. Serial No. 329,308. 13 Claims. (Cl. 30—1.)

1. In a barber's hair cutting machine, a casing means for leading a revolving shaft into said casing, a lever mounted in the casing, mechanism housed within the casing for converting the revolving motion of the shaft to an oscillating motion of the lever, said casing and lever being bent upwardly at the working end, fixed and movable cutting plates mounted at said turned up portion and



means for fulcruming the lever within said turned up portion on a pivot which extends at an acute angle to the plates, said lever having connection with the movable plate to vibrate the same.

1,379,663. WINDOW-SHADE GUARD. EPIFANIO V. N. TOMASULO, Cincinnati, Ohio. Filed Feb. 4, 1920. Serial No. 356,199. 10 Claims. (Cl. 156—29.)



9. In a window-shade guard, a bracket with a base for attachment to the window-frame or jamb, and an outstanding part of cup-like formation, with the open end of the cup toward the shade roller and a part to receive an operative part of the shade-roller in the bottom of the cup, and a cup-like guard-cap with an opening in the bottom of the cup and with the shell of the cup fitting on the shell of the bracket cup-part, said opening allowing the shade-roller to extend through for operative engagement of its operative part in said part of the bracket.

1,379,664. WINDOW-SHADE GUARD. EPIFANIO V. N. TOMASULO, Cincinnati, Ohio. Filed Feb. 19, 1920. Serial No. 359,789. 3 Claims. (Cl. 156—29.)

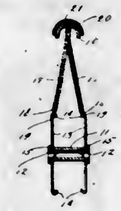


3. In combination with a window-shade, its roller, and the roller bracket, a cup-shaped guard element mounted between the roller and bracket normally free for rotation relatively to the roller and bracket, and extending over the adjacent end of the roller and presenting a shade-edge-conserving surface toward the shade edge, and having a shade-edge-conserving periphery.

1,379,665. SPRING-WHEEL. AMOS WALLACE, Petoskey, Mich. Filed Dec. 11, 1919. Serial No. 344,009. 1 Claim. (Cl. 152—52.)

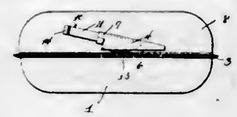
In a spring wheel the combination with a hub and rim, of a pair of plates secured to the ends of the hub and each

having radiating points terminating in hooks, threaded stems engaged in the rim, threaded stems having eyes



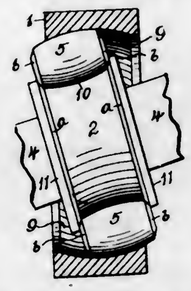
engaged with the hooks of the points, and coil spring spokes having the convolutions of their opposite ends threaded onto the said stems at the rim and at the hub.

1,379,666. CAN-OPENER. OSCAR L. WALLING, Denver, Colo. Filed Sept. 22, 1920. Serial No. 411,929. 4 Claims. (Cl. 220—43.)



1. In combination with a container having an annular flange and a removable cover, a guide member provided with a channel having an open edge and a closed edge, an opener member comprising a shank extending into the guide member and provided with a cam having its curved edge projecting through the open edge of the channel for engagement with the said annular flange and a finger press to facilitate manual pressure of the cam through the guide member.

1,379,667. UNIVERSAL ROLLER-BEARING. EDGAR P. WEBSTER, Bridgeport, Conn. Filed July 2, 1920. Serial No. 393,622. 1 Claim. (Cl. 64—39.)

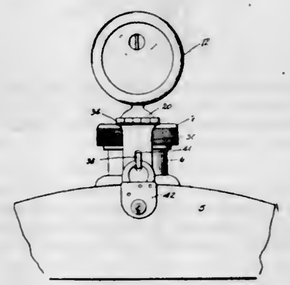


In a universal roller bearing, an outer and an inner race ring, each having a track curved in cross section, the inner ring having side flanges, said flanges being each formed with circular seats which taper outwardly so that the tapered seats are divergently related, and rollers between the rings conforming to the curves of the tracks, the ends of the rollers being free of connection with one another and being tapered to conform to the tapered seats and being engaged therewith so that upon tilting of the inner race ring the rollers will move therewith but will not have any sliding action independent of the said inner race ring, the taper of the rollers and of the seats therefor being such so that upon tilting of the inner race ring the pressure exerted by the seats against the roller ends will be in planes substantially radially of the outer track curvature.

1,379,668. PROCESS OF MAKING AMMONIA FROM COMPOUND NITRIDS. GLEN LENARDO WILLIAMS, New York, N. Y., assignor, by mesne assignments, to Henry Walton Campbell, Detroit, Mich. Filed June 26, 1918. Serial No. 241,959. 18 Claims. (Cl. 23—21.)

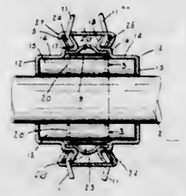
1. The process of producing ammonia which comprises exposing compound aluminum and silicon nitrid to the action of hydrogen at a reacting temperature and in equivalent proportion to yield aluminum and silicon.

1,379,669. MOTOR-METER LOCK. DEWEY E. WILSON, Oakland, Iowa. Filed Oct. 1, 1920. Serial No. 413,965. 4 Claims. (Cl. 70—90.)



1. The combination with a radiator having a neck and a cap threaded thereon, of a meter connected to the cap, an attaching plate engaged by said meter, a hasp carried by said attaching plate, and a yieldable keeper extending through the neck of said radiator and adapted for connection with said hasp.

1,379,670. ROLLER-BEARING HUB. WILLIAM M. WILSON, Terre Haute, Ind. Filed June 5, 1920. Serial No. 386,698. 10 Claims. (Cl. 64—62.)

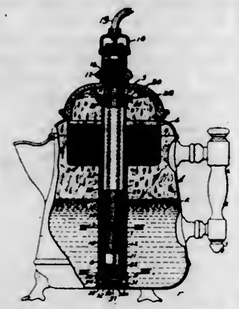


1. A hub construction comprising hub-forming means provided with inwardly extending flange means at the ends of the hub, a plurality of elongated rollers in said hub-forming means, the inwardly extending flange means limiting the longitudinal movement of said rollers in said hub construction, said hub-forming means intermediate the ends of said hub construction forming an annular groove and two adjacent roller bearing surfaces, a spacing means seatable in said annular groove between said roller bearing surfaces, said spacing means securing said rollers in spaced relation within said hub construction.

1,379,671. PERCOLATOR. THEODORE ABTMEYER, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Mar. 28, 1913, Serial No. 757,354. Divided and this application filed Nov. 10, 1917. Serial No. 201,213. 8 Claims. (Cl. 219—67.)

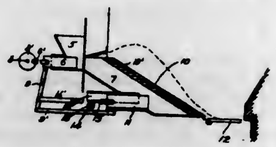
1. An electric heater element comprising an imperforate tubular casing closed at its bottom, a spool of electrical

insulating material in said casing, a resistance conductor wound on said spool and insulated from said casing, an insulating plug secured in the upper end of said casing,



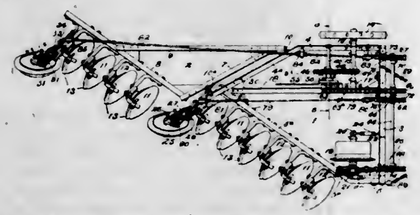
terminal members secured to said plug, means electrically connecting the ends of said resistance conductor to said terminal members, and an imperforate tubular member open at its top and bottom and surrounding said casing.

1,379,672. STOKER. JOHN T. ARNOLD, Attica, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 5, 1917. Serial No. 172,928. 13 Claims. (Cl. 110—44.)



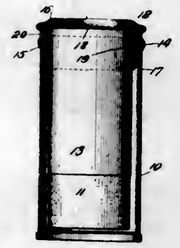
3. In a stoker of the underfeed type, a retort, a fuel impelling plunger operating in said retort for agitating fuel undergoing combustion and having a constant stroke, and means for varying the area of the plunger exposed to the fuel for varying the effectiveness of the plunger.

1,379,673. GANG-PLOW. JOHN B. BARTHOLOMEW, Peoria, Ill., assignor to Avery Company, Peoria, Ill., a Corporation of Illinois. Original application filed May 15, 1913, Serial No. 767,923. Renewed Oct. 12, 1916, Serial No. 125,288. Divided and this application filed May 4, 1917. Serial No. 166,367. 3 Claims. (Cl. 97—67.)



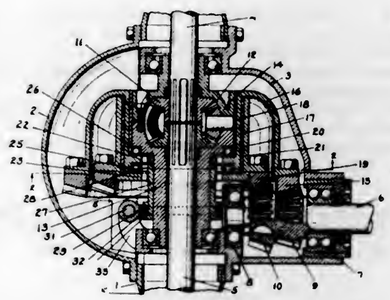
1. In a gang plow, the combination of a frame, a diagonally arranged series of plowing disks rigidly connected to the frame, two wheels for supporting the forward part of the frame, a disk alining furrow wheel adapted to caster and connected with and supporting the rear part of the frame, optionally active means actuated by one of the wheels at the front of the frame, power transmitting devices driven by said means and arranged to first lift the front part of the frame and the front disks of the series and thereafter lift the rear part of the frame and the rear disks of the series, and means for locking said furrow wheel against castering and holding it as a rigid disk alining wheel until the front disks have been raised, and then automatically releasing said wheel and permitting it to caster after the rear disks are raised.

1,379,674. SHAVING-STICK PACKAGE. MARCUS B. BEHRMAN, New York, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a Corporation of Virginia. Filed July 31, 1920. Serial No. 400,530. 5 Claims. (Cl. 206—56.)



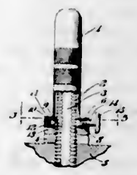
1. A package for a stick of shaving soap comprising a container to inclose the stick and a cup-like holder of elastic material fitting upon the butt end of said stick and serving as a handle for the stick and a stopper for said container while suspending the stick therein.

1,379,675. CHANGEABLE GEAR FOR AUTOMOBILES. CHARLES C. BOOMSLITER, Grand Rapids, Mich., assignor of one-third to Nicholas Kik, Grand Rapids, Mich. Filed May 6, 1920. Serial No. 379,305. 8 Claims. (Cl. 74—59.)



8. In a two-speed axle structure, the combination of a differential driving member constituting a differential casing and provided with a peripheral bearing, a pair of concentrically disposed driven gears mounted on said bearing on said differential driving member and having bearings disposed concentrically of each other, clutch members for said driven gears, a coacting clutch member, on said differential driving member, and a driving shaft provided with driving pinions coacting with said driven gears, all coacting for the purpose specified.

1,379,676. CAP FOR VALVE-STEMS. HENRY BRENNER, New York, N. Y. Filed Nov. 24, 1919. Serial No. 340,345. 2 Claims. (Cl. 152—12.)



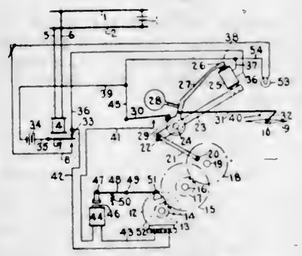
1. A cap for valve-stems, consisting of a casing closed at one end and open at the other, a chamber at the open end, such casing and chamber adapted to slide on and off a valve-stem, a sliding washer contained in the chamber having an opening adapted to fit over the valve-stem, a stud on one side of said washer projection through the chamber, and a resilient block in the chamber at the opposite side of the washer adapted to bring the washer into engagement with the valve-stem, when the cap is on the stem.

1,379,677. DISPLAY-LID. EDWARD BRUNHOFF, Cincinnati, Ohio. Filed Dec. 20, 1919. Serial No. 346,412. 1 Claim. (Cl. 220—32.)



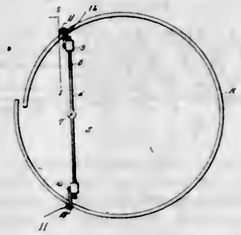
A display lid for vending purposes comprising a cylindrical supporting member beaded at opposite ends to telescopically engage and be supported upon the open end of an original package, a lid comprising a sheet of transparent material having a metallic binding member provided with a hinge member to connect said lid to the exterior of said supporting member, and means to engage the exterior of said supporting member to limit the movement of said lid, said lid in its closed position resting upon the upper edge of said supporting member.

1,379,678. HIGHWAY-CROSSING SIGNAL. STANLEY CHARLES BRYANT, Chicago, Ill. Filed July 20, 1917. Serial No. 181,712. 5 Claims. (Cl. 177—339.)



1. In a railway highway crossing signal, in combination: a banner formed with a face of distinctive and arresting appearance and extent and practically an edge of non-distinctive and non-arrestive appearance and of comparatively slight extent; an oscillatable clutch arm having a normal bias; means connecting the clutch arm and the banner whereby when the clutch arm assumes its biased position it will cause the banner to exhibit the face; an oscillatable operating arm; means for clamping together the operating arm and the clutch arm whereby the clutch arm cannot move in response to its bias except by a corresponding movement of the operating arm and means for preventing movement of the operating arm whereby the edge of the banner is exhibited.

1,379,679. RIM-CONTRACTOR. JOE E. BURK, San Bernardino, Calif. Filed Sept. 8, 1919. Serial No. 322,378. 2 Claims. (Cl. 157—1.)

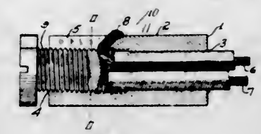


1. A rim contractor comprising a rod having its ends reversely screw threaded, a pair of blocks having screw threaded bores engaging said ends, a sleeve pivotally and detachably connected with each block and a pair of jaw members pivotally connected together by said sleeve.

1,379,680. PROCESS OF MAKING A CEMENTITIOUS COMPOSITION. GEORGE M. FORMBY, Jacksonville, Fla., assignor to Formby Petrinite Corporation, Jacksonville, Fla., a Corporation of Delaware. Filed Mar. 10, 1920. Serial No. 364,736. 4 Claims. (Cl. 106—29.)

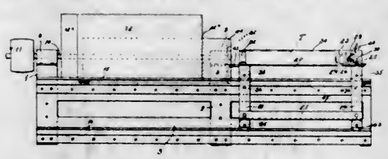
1. The process of producing a cementitious product which consists in providing a mixture of calcium magnesium hydrates; and reacting on said mixture with hydrochloric acid and adding the resulting product to a cementitious composition, substantially as described.

1,379,681. CONNECTOR. GEORGE H. GARCELON, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1917. Serial No. 146,475. 5 Claims. (Cl. 287—75.)



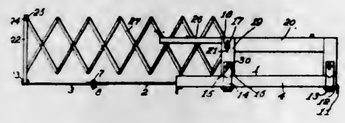
5. A connector comprising a hollow member having a slot in a wall thereof and a sloping shoulder constituting one end of the slot, said slot being longer at its outer edge than at its inner edge, and a member movable in the hollow member to clamp a conductor against said sloping shoulder.

1,379,682. BARREL-STAVE-SAWING MACHINE. RUDOLPH P. GERLACH, Cleveland, Ohio. Filed Sept. 22, 1919. Serial No. 325,320. 7 Claims. (Cl. 143—85.)



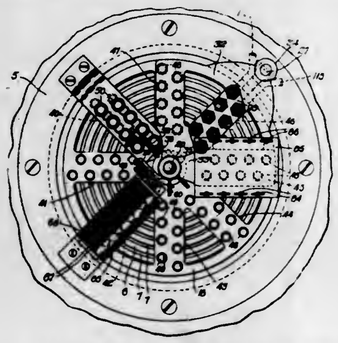
1. In a barrel stave sawing machine, the combination of a drum saw, means for driving the saw, a track comprising a pair of rails disposed one above the other and parallel to the adjacent longitudinal contour of the saw in a plane substantially tangent to the saw and at right angles to the horizontal radius of the saw, and a carriage movable along the track for supporting a piece of timber and delivering it to the saw.

1,379,683. COLLAPSIBLE SEAT OR BED. FRANK RUSSELL GLASENER, Rock Falls, Iowa. Filed July 26, 1920. Serial No. 398,947. 7 Claims. (Cl. 155—44.)



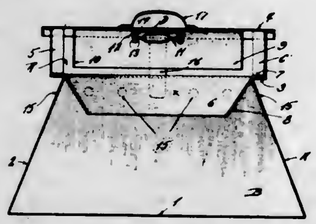
1. In a device of the character described, a base-plate having guideways, an extension therefor movable along said guideways and composed of planar superposed slidingly connected members, and means to secure them in either extended or in collapsed positions.

1,379,684. SOLDERING-MACHINE. JAMES T. GRIFFIN, Oak Park, CARL A. NELSON, Chicago, and MELVIN H. CAMPBELL, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 18, 1918. Serial No. 258,724. 5 Claims. (Cl. 113—59.)



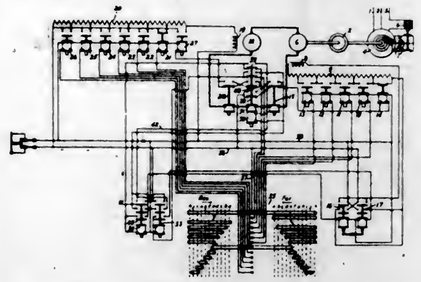
1. In a machine for soldering disks to supports, an intermediate rotatable work carrier having a plurality of sets of work holding openings therein each adapted in the rotative movement of said carrier to be moved into consecutive positions to complete a cycle of operations, a plate associated with said carrier for supporting the disks, means for supplying disks to each set of openings in one position of said carrier, means for supplying solder to said openings in another position thereof, heat applying means adapted to operate upon the supports in a following position of said carrier to melt the solder, means for centering the supports on the disks and ejecting the soldered article from the carrier in the positions of the carrier succeeding the soldering position.

1,379,685. RAT, MOUSE, AND INSECT TRAP. LOUIS HAEGE, New Memphis, Ill. Filed May 20, 1920. Serial No. 383,013. 3 Claims. (Cl. 43—64.)



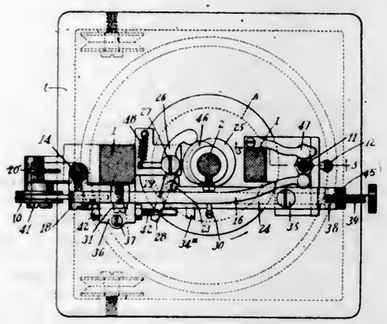
1. In a trap of the character described a lower section comprising a receptacle having side walls which converge toward the top of the receptacle and a continuous top flange extending outwardly at the top of said receptacle, and an upper section comprising a continuous flaring guard flange and a continuous horizontal top flange extending outwardly from the top of said flaring guard flange and seated upon the top flange of said receptacle, said continuous flaring guard flange being arranged within the upper portion of the receptacle to provide slides which extend downwardly from the top flanges, said upper section also including a cover, ribs connecting said cover to the superimposed top flange, a continuous guard flange depending from said cover and located directly above said flaring guard flange, said guard flanges being separated from each other to provide a continuous inlet above said flaring guard flange, and spring latches whereby said upper section is detachably secured to said lower section.

1,379,686. ELECTRICAL SYSTEM. EDWARD A. HANFF, Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 22, 1916. Serial No. 132,795. 16 Claims. (Cl. 172—239.)



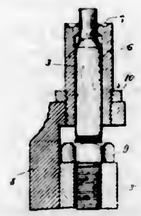
1. In an electrical system, the combination with a motor and a source of current therefor, of a resistor for controlling the voltage of said source, means for normally short-circuiting said resistor, means for automatically breaking said short-circuit when said motor operates as a generator, and means for reëstablishing said short-circuit when the current of said motor rises above a predetermined value.

1,379,687. DUPLEX EYELET-MACHINE. FRANK L. HARMON, Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 12, 1916. Serial No. 103,056. 14 Claims. (Cl. 218—15.)



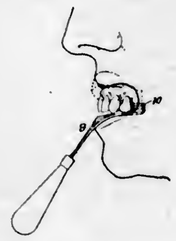
6. An eyeleting machine, comprising two punch-and-set mechanisms, each mechanism comprising a punch and set telescopically combined, and oppositely mounted in substantial alinement to act simultaneously on two pieces of material, a duplex feed device mounted for vibration closely adjacent one side of the punches and sets of said punch-and-set mechanisms, said device consisting in an intermediate jaw and movable paws coöperative with opposite sides thereof, said movable jaws having means for periodically opening and closing them in the cycle of their vibration toward and from said eyeleting mechanisms.

1,379,688. MEANS FOR SETTING EYELETS. FRANK L. HARMON, Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 24, 1916. Serial No. 105,726. 13 Claims. (Cl. 218—15.)



8. A duplex punch having opposite hollow punch ends each formed with a cutting edge for penetrating and cutting through the materials to be eyeleted and with clenching surfaces therearound, said punch being formed with a passage therethrough between said punch ends, and solid end eyelet carrying anvils slightly larger than and coöperative with the respective punch ends.

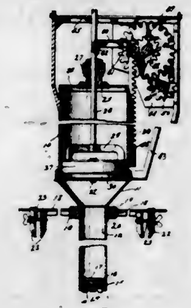
1,379,689. SPECIMEN SET-UP FOR ARTIFICIAL TEETH. MILUS M. HOUSE, Indianapolis, Ind., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Oct. 14, 1920. Serial No. 416,897. 15 Claims. (Cl. 35—16.)



1. A specimen set-up for determining tooth and gum characteristics to be incorporated into dentures, consisting of an arch-shaped body having a curved floor and an upward flange to approximately fit the forward part of the ridge of a jaw, said body having secured thereto the anterior teeth alone and terminating at each side with the position of the bicuspids, and also having the labial surface of the upward flange shaped to represent gum characteristics, said body also provided with means whereby it may be temporarily supported in position in the mouth.

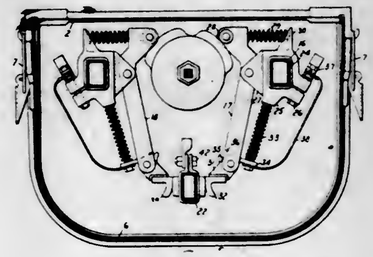
1,379,690. OIL-PUMP. STANLEY R. HUGHES, Benton, and HARRY D. HUGHES, Lytle, Tex. Filed Oct. 18, 1917. Serial No. 197,278. 1 Claim. (Cl. 103—62.)

A pump for attachment to a barrel comprising a cylinder, a frame sustained from the cylinder, a piston in the cylinder having a rod extending exteriorly thereof, a rack bar connected at its upper end with the rod and disposed with its lower end portion in direct slidable contact with the exterior of the cylinder, a pinion supported in the frame, operatively engaged with the rack bar and having a manually operable means for reversely rotating it, a



suction tube depending from the cylinder and means carried by the suction tube at the base of the cylinder for engagement with the upper edge of the barrel.

1,379,691. CONTROLLER. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 1, 1917. Serial No. 189,390. 10 Claims. (Cl. 200—6.)



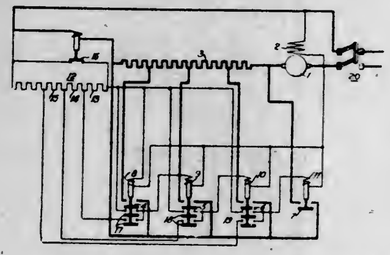
1. In a controller, a rotatable shaft, a plurality of cam disks removably mounted on said shaft, a post disposed adjacent to the disks and having contact members mounted thereon, and a plurality of pivotally mounted contact levers disposed on opposite sides of said disks, said levers being operated in pairs by said disks to engage said contact members.

1,379,692. THUMB-BRAKE FOR FISHING-REELS. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 6, 1919. Serial No. 336,197. 1 Claim. (Cl. 242—84.5.)



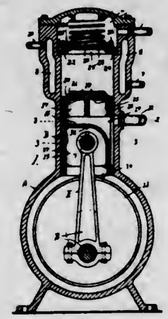
The combination with the frame of a fishing reel and the rotating spool thereof, of a movable brake carried by said frame and adapted to be moved into braking engagement with the exposed surface of said spool, said brake having a rigid backing member which at its ends terminates short of the spool heads, and a braking member of friction material rigidly supported by said backing member and projecting beyond the ends thereof and adapted to be moved into wedging relation between the spool heads.

1,379,693. CONTROL SYSTEM. AMOS A. PONSONBY, Scranton, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1920. Serial No. 402,296. 10 Claims. (Cl. 172—288.)



5. A control system comprising a main circuit, a plurality of switches for controlling said main circuit, a resistor in circuit with the actuating coil for said switches, means responsive to current conditions in said main circuit for shunting the whole of said resistor, and means associated with said switches for shunting portions of said resistor and for establishing energizing circuits for other of said switches.

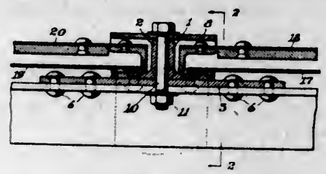
1,379,694. ICE-MACHINE COMPRESSOR. HENRY D. POWNALL, Canton, Ohio. Filed Sept. 28, 1918. Serial No. 256,120. 7 Claims. (Cl. 230—34.)



1. A single-acting compressor comprising a cylinder having an exit-port at one end, a check-valve to control said cylinder-exit-port, a gas-inlet-port through the cylinder side-wall, a piston to reciprocate in said cylinder having a port through its inner end and a channel in its periphery parallel with the piston axis and of approximately the length of the piston stroke, a check-valve to control said piston port, said piston having a packing-ring at its inner end and a packing-ring at its outer end, said channel communicating continuously with said cylinder inlet port and communicating with the compression chamber of the cylinder through said check-valve-controlled port in the inner end of the piston, a wrist-pin located in said piston in a compartment separate from and at one side of said piston channel and located at a point intermediate of said inner and outer piston rings, and means engaging said wrist-pin to drive said piston, whereby a long piston stroke is attainable with a relatively short cylinder.

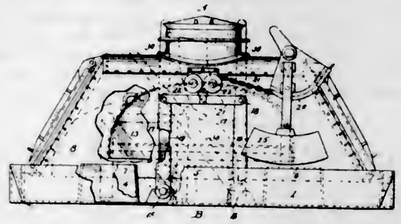
1,379,695. ASH-CART COVER. SAMUEL ROCHLIS, Philadelphia, Pa. Filed Jan. 31, 1919. Serial No. 274,205. 3 Claims. (Cl. 296—101.)

1. In a cart or wagon body top, the combination of a channel member comprising angle irons having vertically positioned flanges arranged in parallel relation and secured together in spaced relation with respect to each other, the other flanges of said angle irons extending horisontally in opposite directions, a plate seated against the upper edges



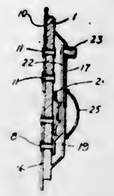
of the said flanges in parallel relation to the said horizontal flanges of said angle irons, means for detachably securing the said plate to the said angle irons, and cover plates partially supported by the channels formed by the said angle irons and plate.

1,379,696. REVERSING-VALVE MECHANISM. JOHN FRANK ROGERS, Cleveland Heights, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 23, 1918. Serial No. 218,688. 3 Claims. (Cl. 137—151.)



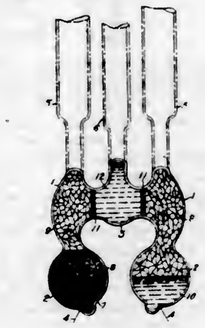
1. The combination of a reversing valve which is movable back and forth through a definite path from one operative position to another, arms which are pivoted at their lower ends and which extend upwardly on opposite sides of the valve, valve supporting means connecting said valve with the upper ends of said arms, a pivoted segment, a chain connected therewith and extending over the periphery of said segment, a sheave over which said chain passes and extends downward, means operatively connecting the depending end of said chain with the described valve mechanism, a radial arm, a weight fixed thereto, said arm being connected with said segment in such position substantially as described that when the valve is substantially at the middle of its path of travel said weighted arm will hang vertically downward.

1,379,697. PORTABLE ELECTRIC LAMP. FRANCIS M. ROSENFELD, New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J., a Corporation of New Jersey. Filed Dec. 13, 1917. Serial No. 206,908. 1 Claim. (Cl. 200—60.)



Contact mechanism for battery hand lamps comprising in combination conductors connected to opposed poles of the battery, a pair of spaced contacts at each of the adjacent ends of the conductors, a housing covering said contacts and spaced therefrom, a depressible switch within said housing and having one end engaging a contact of one conductor and the other end overlying and spaced from a contact of the other conductor, and a slidable switch mounted on the housing and adapted to be moved under the depressible switch and into engagement with each of the remaining contacts of said conductors.

1,379,698. STANDARD CELL. CLARENCE J. ROTTMANN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 13, 1919. Serial No. 323,669. 9 Claims. (Cl. 204—33.)

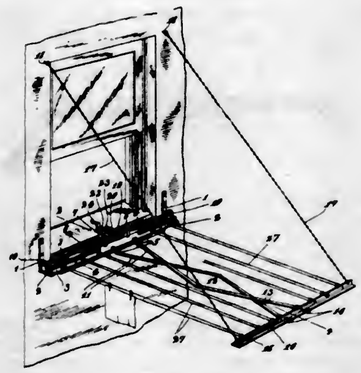


1. In a standard cell a containing vessel of hard glass and leading-in wires of tungsten.

1,379,699. CELLULOSE COMPOSITION. WALTER T. SCHEELE, Hackensack, N. J., assignor to H. Mortimer Specht, New York, N. Y. Filed Oct. 23, 1920. Serial No. 419,108. 25 Claims. (Cl. 23—24.)

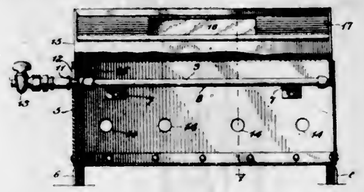
1. The process of making acetic cellulose solution, which comprises treating cellulose with a mixed solution of hydrogen peroxid and alkali-metal hydroxid, washing free of alkali and acetylating.

1,379,700. CLOTHES-HANGER. JOHN H. SCHEU, New York, N. Y. Filed May 27, 1920. Serial No. 384,637. 3 Claims. (Cl. 68—3.)



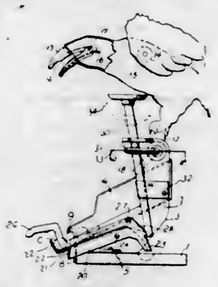
1. A clothes hanger comprising a fixed rail, a rail adapted to be projected away from said fixed rail, and means supporting said fixed rail, and a foldable and extensible framework having slides on its respective inner and outer end members, the slides of the inner end engaging said fixed rail, and the slides of the outer end engaging said movable rail, and means for operating said slides whereby the framework may be folded and extended.

1,379,701. COMBINED GAS HEATING AND COOKING STOVE. ABRAHAM SCHMILOWITZ, Jersey City, N. J. Filed June 22, 1920. Serial No. 390,913. 2 Claims. (Cl. 126—85.)



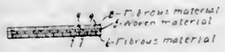
2. A device of the character described comprising a casing open at its upper end, spaced transverse supporting bars fixed in the upper open end of the casing, a heater element adapted to be removably positioned upon said bars, one end wall of the casing having an opening therein, and the heater element being provided with a nipple to extend through said opening, interchangeable top members adapted to be inserted within the upper end of the casing, and frictionally coacting with the walls thereof, whereby the device may be converted for use either as a heater or cooking range, said members adapted to rest upon the supporting bars for the heater element, and each of said members having a recess in one end wall thereof to receive the nipple of the heater element and hold the latter against transverse shifting movement on the supporting bars.

1,379,702. CIGARETTE AND CIGAR DISPENSER AND CONTAINER. DAVID SHAPIRO, New York, N. Y. Filed May 10, 1920. Serial No. 380,213. 2 Claims. (Cl. 211—8.)



1. In a device of the class described, a cigarette container, means for removing one cigarette at a time from said container, said means comprising a pivoted frame having a flat cigarette carrying projection, said frame carrying a bar to operate as a stop for a cigarette when said frame is in its operated position.

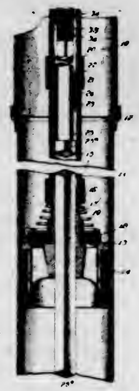
1,379,703. PROCESS OF MAKING EMBOSSED FABRIC. ROSE E. SHINER, Franklin, Mass. Filed Apr. 1, 1920. Serial No. 370,445. 4 Claims. (Cl. 91—67.9.)



2. The herein described process of manufacturing rugs, carpets and the like, which consists in attaching a layer

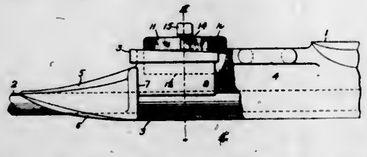
of fibrous material to a layer of woven material by pricking the fibers of said fibrous material into said woven material; then immersing said fabric in casein, glue or waterglass; then allowing the same to dry; and then passing said fabric between heated rolls under pressure, said rolls having embossed peripheries.

1,379,704. PUMP. JOHN B. SPERRY, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed May 17, 1918. Serial No. 235,107. 8 Claims. (Cl. 103—82.)



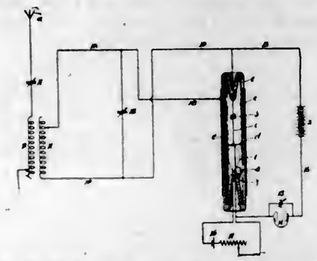
1. The combination of a pump-cylinder, two reciprocating plungers therein, one above the other, a hollow sectional plunger-rod connected with the upper plunger, a second plunger-rod within the hollow plunger-rod and extending through said upper plunger and connected with the lower plunger, said inner plunger-rod having an angular portion and a cylindrical portion, and two bearings for said inner plunger-rod, one of said bearings being in the upper plunger and the other being supported between two sections of the hollow plunger-rod, one of the bearings being angular and the other cylindrical to correspond to the two different shapes of the said inner plunger-rod.

1,379,705. TROLLEY DEVICE. NILS J. A. WAHLBERG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 25, 1919. Serial No. 279,039. 8 Claims. (Cl. 191—40.)



1. A trolley-conductor device comprising a body member of channel shape for the reception of the conductor and having outwardly-projecting flanges at its edges, a transverse member rigidly secured in a position spanning one end of the channel member and having its ends extending around said flanges, said transverse member having a slot parallel to the channel, a wedge member disposed in the channel and having a headed projection adapted for insertion through said slot and then to be turned through an angle of substantially ninety degrees to lock it against withdrawal, and an approach member having a portion disposed in the channel between said wedge member and the conductor.

1,379,706. VACUUM-VALVE DETECTOR. ROY ALEXANDER WEAGANT, Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 10, 1917. Serial No. 153,934. 17 Claims. (Cl. 250—27.)



12. As an article of manufacture, a thermionic device having an anode formed with a wire-like portion pointing toward the cathode having its end separated therefrom by a distance relatively small as compared with the average distance between said cathode and anode.

17. A combination of an evacuated vessel having an anode and a hot cathode therein, of an electrostatic control element supported by said vessel in close relationship with the electron stream between said electrodes whereby the value of the thermionic current therebetween may be rapidly varied, means for discharging a charge produced on the interior wall of said vessel when said control element is charged and means whereby said first means is maintained at the same potential as a part of said cathode.

1,379,707. MIXING-MACHINE. EDGAR S. LA CROIX, Duluth, Minn. Filed Sept. 7, 1920. Serial No. 408,659. 1 Claim. (Cl. 259—107.)



A stationary blade for a mixer of the class described having its attached end bent at right angles to its body portion, said bent end having a notched slot therein, and a clip permanently fixed to the walls of the mixer into which the slot in the blade is coöperatively removably engaged, substantially as described.

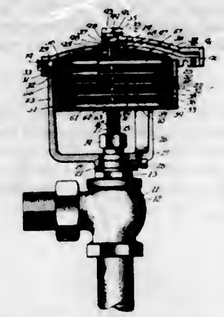
1,379,708. BLOWPIPE. CLAYTON LAING, Chicago, Ill. Filed May 24, 1918. Serial No. 236,390. 23 Claims. (Cl. 158—27.4.)



4. The combination with a blow pipe having a nozzle, of means for supplying air and gas thereto, and controlling means comprising a single controlling element for increasing and decreasing the flow of air and gases through said nozzle synchronously and in proportions variable at will.

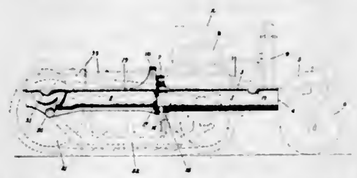
1,379,709. PRESSURE-CONTROLLED DIAPHRAGM DEVICE. JOHN M. LARSON, Chicago, Ill. Substitute for application Serial No. 126,774, filed Oct. 20, 1916. This application filed Dec. 27, 1920. Serial No. 433,392. 8 Claims. (Cl. 236—26.)

1. A diaphragm chamber comprising a plurality of diaphragm cells, each cell comprising a pair of oppositely disposed spring diaphragms, and means for setting up stress in said diaphragms such as to cause adjacent walls



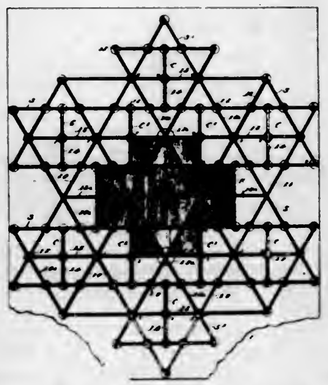
of adjacent cells to exert a substantial pressure on each other, even when the diaphragm chamber is deflated.

1,379,710. BODY CONSTRUCTION FOR TRACTORS. WALTER C. MATTESON, Stockton, Calif. Filed Nov. 25, 1919. Serial No. 340,492. 3 Claims. (Cl. 180—54.)



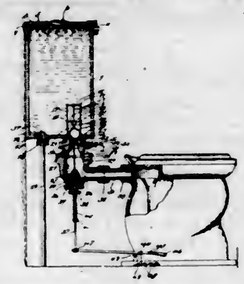
1. A body construction for tractors comprising a forward cast member adapted to receive an engine thereon, a rear cast unit secured to the forward member and adapted to receive clutch and transmission mechanisms therein, and an upwardly projecting hood attached to the front end of the rear unit and adapted to be secured to the fly wheel casing of an internal combustion engine.

1,379,711. GAME. CYRUS BURTON MULLINS, Jr., Rocky City, Okla. Filed Apr. 7, 1920. Serial No. 371,864. 1 Claim. (Cl. 46—64.)



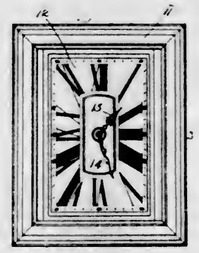
A game comprising a playing board having a plurality of intersecting diagonal lines forming an outer series of six-point stars, said six-point stars forming playing and starting zones, longitudinal and transverse lines within said zones and connecting the diagonal lines of the same, the intersection of the lines of said six-point stars being provided with circles, and playing pieces adapted to be placed upon and moved from circle to circle, the central portion of the board being provided with a crowning zone surrounded by said playing and starting zones.

1,379,712. FLUSH-TANK AND FLUSH-VALVE THEREFOR. WALTER G. MUNKEL, Anamosa, Iowa. Filed Oct. 11, 1919. Serial No. 329,980. 2 Claims. (Cl. 4—5.)



2. The combination with a flushing tank into which flushing water under pressure is adapted to flow, of a bushing having a valve seat threaded into the bottom of the tank, a casing connected to the lower end of the bushing and having connections with a hopper to be flushed, a guide frame rising upwardly from the bushing comprising diametrically oppositely arranged vertical guide rods, a transverse rod having eye connections with certain diametrically opposite guide rods, a spheroidal hollow valve coöperable with said seat, a connector loosely suspended from the transverse rod, and having a loose connection with said valve, whereby the valve may accommodate itself to the seat, when the tank has become empty of the water therein, and means for manually unseating the valve.

1,379,713. WALL-CLOCK. OLOF OHLSON, Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass., a Corporation of Massachusetts. Filed Aug. 16, 1917. Serial No. 186,492. 7 Claims. (Cl. 58—56.)

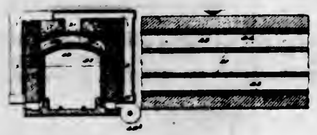


1. A wall clock comprising a frame, a dial mounted in said frame, a time movement mounted on the back of the frame, a winding stem projecting laterally from said movement toward one edge of the frame, and a crown on said stem mounted close to the rear plane of the frame normally within the adjacent edge thereof and having a sliding connection with the stem whereby it may be placed outside of such edge for manipulation.

1,379,714. COOLING MEANS FOR TUNNEL-KILNS. JOHN B. OWENS, Metuchen, N. J. Original application filed July 15, 1918, Serial No. 109,511. Divided and this application filed Aug. 14, 1918. Serial No. 249,826. 3 Claims. (Cl. 25—142.)

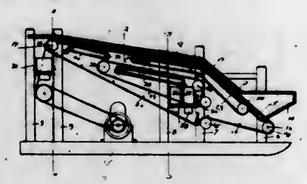
1. A tunnel kiln having a furnace for delivering heat into the interior of its tunnel and provided with a sealed

cooling zone whose side walls are provided with air circulating spaces sealed from the interior of the cooling zone, said spaces being adapted to receive outer air at their lower parts, and to void the air at their upper



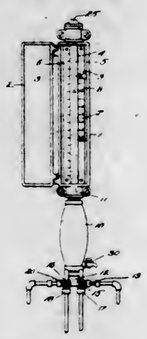
parts, and being arranged and adapted for the upward passage of the outer air for the purpose of cooling the inner tunnel walls and taking off the heat radiated from the ware within the cooling zone without direct entry of air into said cooling zone or direct exit of air therefrom.

1,379,715. VEGETABLE-GRADER. ALLISON H. PARKS, Yakima, Wash. Filed July 7, 1919. Serial No. 309,069. 8 Claims. (Cl. 130—32.)



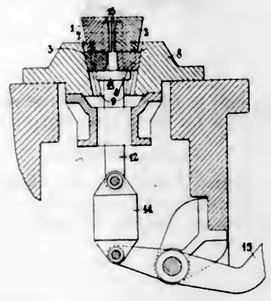
1. In a grader, an inclined table, a plurality of spaced parallel guide rails mounted thereon, a receptacle mounted below the upper end of the guide rails, a conveyer belt movable above the rails, depending fingers carried by the belt and projecting between the rails to engage the objects to be graded to move the same between the rails, a plurality of belts movable along the table between the guide rails, the latter belts extending toward the upper ends of the guide rails, a shaker table disposed below such belts adapted to receive the objects as the same are moved toward the end of the belts, receptacles disposed below the end of the shaker table adapted to receive the objects, and means for driving the belts and shaker table.

1,379,716. WATER-LEVEL-INDICATOR INSTRUMENT. HARRY S. PARKS, Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed Aug. 28, 1919. Serial No. 320,386. 7 Claims. (Cl. 73—54.)



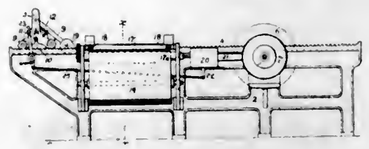
3. A liquid level indicator, comprising inner and outer indicating tubes in communication at their upper ends and the outer tube being hermetically sealed at its upper end, liquid-containing pipe lines one of which is in connection with the lower end of said inner tube, and a volume chamber connected with the other pipe line and with the bottom of said outer tube and containing a quantity of gas adapted to be displaced into and compressed in said tube under inflow thereto of liquid under pressure.

1,379,717. DIE. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, ALFRED QUINTIN CARNEGIE, JOHN FORD, and MATTHEW BONE, Newcastle-upon-Tyne, England; said Cook, Carnegie, Ford, and Bone, assignors to said Parsons. Filed May 10, 1920. Serial No. 380,363. 14 Claims. (Cl. 207—9.)



1. A die mechanism having a cavity to receive a billet and an orifice leading therefrom through which a portion of the billet may be extruded by drop forging, to form a blade, said die being divided into sections along a plane cutting the said extruding orifice and said cavity, means for moving the die in the general direction of the axis of the cavity and orifice, and for separating the sections in said movement laterally in respect to the axis of the cavity and orifice, substantially as described.

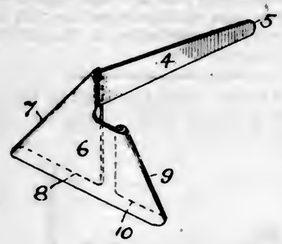
1,379,718. MEANS FOR MAKING TOILET-PAPER ROLLS. PHILIP D. PARSONS, Philadelphia, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Filed Dec. 1, 1919. Serial No. 341,823. 8 Claims. (Cl. 216—1.)



5. In a machine of the character stated, the combination of a plurality of cutters rotating in parallel planes at intervals apart, with means for feeding a wide roll of paper against the said cutters, whereby it is subdivided into a plurality of rolls shorter length, and means arranged in the path of the travel of the roll of paper under the influence of the feeding means for supplying a wrapper to the long roll of paper prior to the action thereon of the cutters.

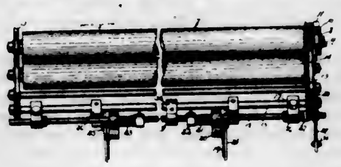
1,379,719. SUSPENSION DEVICE FOR PAPER PACKAGES AND THE LIKE. PHILIP D. PARSONS, Philadelphia, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Filed Mar. 6, 1920. Serial No. 363,703. 6 Claims. (Cl. 281—15.)

1. A suspension device for paper packages and the like, consisting of an integral sheet material having a body part in which the opposite corners are separately bent over in opposite directions to provide rigid grooved portions converging to form a socket and also having an extended prong part integral with the body intermediate



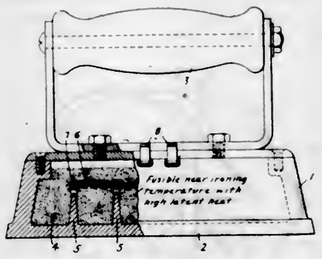
of the grooved portions and bent at right angles to the body part and plane of the socket thereof and extending transversely across said socket.

1,379,720. CUTTER FOR KNITTING-MACHINES. HENRY PAULMAN, Glastonbury, Conn. Filed Nov. 12, 1919. Serial No. 337,570. 12 Claims. (Cl. 164—42.)



1. In combination with the frame of a fabric forming machine having a take-up roll supported thereon and a stay rod extending across the machine between the side parts thereof, a cutting device attached to said rod and including two blades supported thereby, a blade actuating shaft supported by said rod, one set comprising a plurality of cutting blades being rigidly secured to said shaft, and means for actuating said shaft.

1,379,721. IRONING IMPLEMENT. HARRY A. RAPELYE, Edgewood Park, Pa. Filed Oct. 1, 1919. Serial No. 327,804. 16 Claims. (Cl. 219—25.)

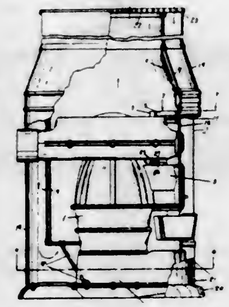


1. In an ironing implement, the combination with means providing an ironing surface, of a body of material disposed adjacent thereto and having a fusing temperature near the desired ironing temperature and a marked latent heat of fusion.

1,379,722. CASE-HARDENING COMPOUND AND METHOD OF USING SAME. DE SOTO E. RICHARDSON, Riverside, Wash. Filed Aug. 13, 1919. Serial No. 317,195. 3 Claims. (Cl. 148—25.)

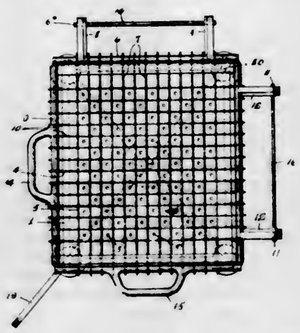
1. A compound for case-hardening consisting of diatomaceous earth, or tufa, common salt, salt peter, and sodium potassium tartrate.

1,379,723. FURNACE. ARTHUR E. RUDOLPHI, Dowagiac, Mich. Filed Feb. 23, 1921. Serial No. 447,153. 16 Claims. (Cl. 126—99.)



3. The combination with a furnace body having projecting ashpit and combustion passage members, an inner casing frame comprising uprights and a top cross member mounted on said passage members, an inner casing having an opening at the front disposed with the side and top edges of the opening engaging said frame, a front plate mounted on said passage members and an outer casing member secured to said front plate.

1,379,724. VEGETABLE-SLICER. ANNA E. RUSSELL, Syracuse, N. Y. Filed Sept. 23, 1920. Serial No. 412,313. 4 Claims. (Cl. 146—7.)

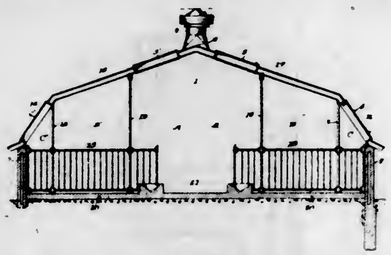


1. A vegetable cutter comprising a table, having a plurality of openings therethrough arranged in rows in two directions at a right angle to each other, a pair of knife frames movable toward and from the table, substantially parallel knives carried thereby, the knives of one frame being arranged at an angle to the knives of the other and the knives of the frames being arranged to pass between the rows of holes on the table, pins movable through the holes of the table, and means for moving the pins vertically, substantially as and for the purpose specified.

1,379,725. STABLE. JOHN G. SHODRON, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a Corporation of Wisconsin. Filed Aug. 30, 1916. Serial No. 117,612. 4 Claims. (Cl. 119—16.)

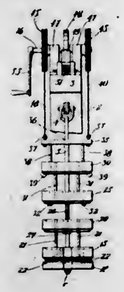
1. A stable, open spaced from floor to roof, and having the roof hipped adjacent to the side walls; that portion of the roof adjacent to the side walls being more steeply inclined than the central portions, and both portions being provided with longitudinally extending series of windows, of which those in the central portion are adjacent to the ridge of the building; said building being disposed at a

sufficient angle to the cardinal points of the compass to allow the direct rays of the sun to reach substantially all



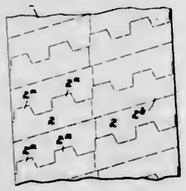
portions of the building in the course of the day, whereby the stable may be kept in a sanitary condition and the health of the animals therein promoted.

1,379,726. SCALE. ANDREW SONANDER, Rutland, Vt., assignor to Howe Scale Company, Rutland, Vt., a Corporation. Filed July 1, 1919. Serial No. 307,973. 3 Claims. (Cl. 265—48.)



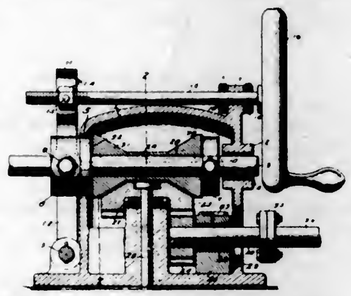
1. In a device of the character described, the combination with a scale beam having a suspended poise rod and pan, a series of counterpoise weights, each formed with a central opening to receive said poise rod and suspension hooks depending from it to engage another weight, and adjustable means for supporting said weights, including a crank shaft, pulleys upon said shaft, cables upon said pulleys connected with said weights and means for holding said shaft against movement.

1,379,727. METHOD OF MAKING ROOFING-SLABS. ALEXANDER S. SPEER, Chicago, Ill., assignor to The Roofing Patents Company, a Corporation of Delaware. Original application filed Apr. 7, 1919, Serial No. 288,035. Patent No. 1,318,238, dated Oct. 7, 1919. Divided and this application filed Sept. 19, 1919. Serial No. 324,952. 5 Claims. (Cl. 164—17.)



1. The method of producing from a prepared roofing strip of materially greater length than width a plurality of units each having along one edge a plurality of projections and spaces consisting in severing said strip in widthwise sections to form a plurality of blanks of the length of two units, the general direction of severance of said blanks being along lines at other than a right angle to the lengthwise edges of the strip and severing the blanks through the middle thereof along a line parallel to the side edges of the strip.

1,379,728. CLUTCH. WILLIAM EDWARD STOY, Juneau, Alaska. Filed May 4, 1920. Serial No. 378,736. 5 Claims. (Cl. 74—26.)

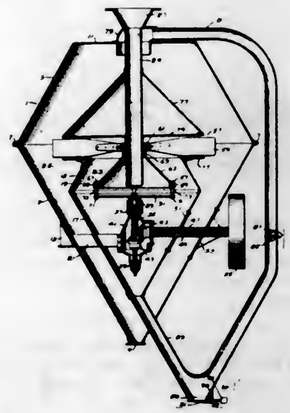


5. A device of the character specified comprising in combination with the drive shaft and the driven shaft, a crown wheel between the shafts, the driven shaft having a pinion meshing with the crown wheel, and the drive shaft having a sleeve feathered thereon and provided at each end with enlargements tapering outwardly from the sleeve, the adjacent face of the crown wheel being beveled to alternately engage the enlarged ends of the sleeve when the sleeve is moved longitudinally, and means for moving the sleeve.

1,379,729. COMPOSITION FOR SOUND-RECORDS. EMILE DE STUBNER, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Dec. 16, 1919. Serial No. 345,335. 9 Claims. (Cl. 106—1.5.)

1. A sound-recording composition comprising candelilla wax and stearic acid in partially saponified solid solution.

1,379,730. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 16, 1920. Serial No. 358,984. 7 Claims. (Cl. 83—40.)



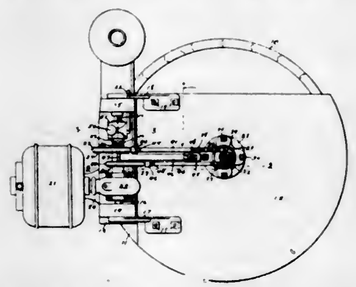
1. An air separator for grading materials, comprising, in combination, an outer casing, an inner casing therein

dividing the same into a separating chamber and a collecting chamber, said inner casing positioned a substantial distance from the upper end of the outer casing, a hopper at the top of the casing, a feed tube extending from the hopper down to the separating chamber, a member supported by said tube in spaced relation to the upper end of the separating chamber and coöperating with the upper end of said chamber to form a restricted fan receiving space, a fan rotatable in said restricted space to cause an air current to circulate upward through the separating chamber into the collecting chamber, and a conduit for conducting air from the upper end of the collecting chamber to the lower end of the separating chamber and in an upward direction through said lower end.

1,379,731. MANUFACTURE OF HYDROBROMIC ACID. EUGENE THEIMER, Newark, N. J., assignor to Lowenstein Radio Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 4, 1919. Serial No. 315,311. 9 Claims. (Cl. 23—1.)

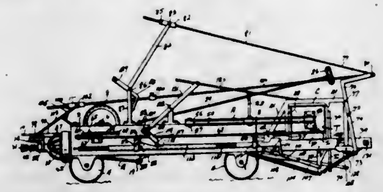
1. In the manufacture of hydrobromic acid, the process which comprises bringing together into reacting relation a relatively concentrated solution of a soluble bromid and a relatively concentrated mineral acid, heating the resultant mixture to distilling temperature, and collecting a distillate consisting of strong aqueous hydrobromic acid containing substantially no free bromin.

1,379,732. ECCENTRIC DRIVING MECHANISM FOR POWER WASHING-MACHINES. HERMAN H. TOLL and FRANK C. DUFF, Clarinda, Iowa. Filed Feb. 23, 1918, Serial No. 218,746. Renewed Oct. 22, 1920. Serial No. 418,764. 10 Claims. (Cl. 74—50.)



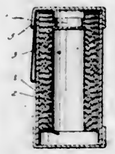
1. A driving mechanism, comprising a support, a driving member journaled on said support and formed with oppositely arranged eccentrics, a bearing plate carried by said support, a housing on said plate, a member mounted for rotary oscillation in said bearing plate and housing, said housing being formed with an opening directed toward said driving member, a flexible connector fixed intermediate of its ends to said oscillatory member and extending through the opening in said housing, and driving connections between the ends of said connector and the respective eccentrics.

1,379,733. BLOCK-MACHINE. JOSEPH VOGT, Richmond, Minn. Filed Apr. 19, 1920. Serial No. 375,061. 30 Claims. (Cl. 25—101.)



1. A block press comprising, in combination, a mold box including a removable top, opposed tamps operating within the box, means for substantially reciprocating said tamps, automatic means operated by said first named means for moving the top into open position, and means operating upon opening movement of the top to render inoperative the means for moving the tamps.

1,379,734. STICKY-FLY-RIBBON COIL. WILLIAM J. WAGNER, Grand Rapids, Mich., assignor to The O. & W. Thum Company, Grand Rapids, Mich. Filed May 23, 1919. Serial No. 299,281. 2 Claims. (Cl. 43—116.)

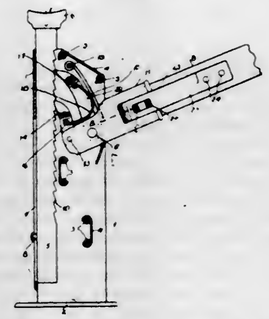


1. In a sticky fly coil, the combination of a cylindrical container, a coil of ribbon with its outer end secured to the inner wall of the container, a drawing tape secured to the inner end of said coil and a plug disposed and inserted in the top of the coil to force the succeeding layers of the coil into tight contact to seal the contents of the ribbon and prevent hardening.

1,379,735. PROCESS OF MAKING GLAUBER'S SALT, TRI-SODIUM PHOSPHATE, AND NEUTRAL SODIUM PHOSPHATE. GEORGE T. WALKER, Minneapolis, Minn., assignor, by mesne assignments, to Colonial Chemical Corporation, Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 23, 1918. Serial No. 230,230. 2 Claims. (Cl. 23—13.)

1. A process of obtaining Glauber's salt which consists in mixing a solution of sodium bi-sulfate with ground phosphate rock in proportions to produce a solution of acid calcium phosphate and Glauber's salt, adding to such solution sufficient soda ash to render the solution neutral to litmus paper, thereafter filtering the mixture and finally cooling to cause crystallization of the Glauber's salt.

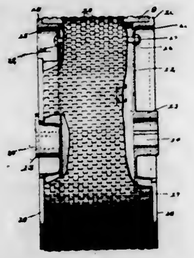
1,379,736. LIFTING-JACK. WALTER SAMUEL WILKINS, Wednesbury, England. Filed Mar. 31, 1920. Serial No. 370,220. 6 Claims. (Cl. 254—110.)



1. A lifting jack comprising a casing containing a vertically movable pillar having a toothed rack along one edge, a pivoted socket to which may be fitted an operating lever, the socket being mounted in the casing and carrying at its inner end an actuating pawl adapted to engage with the rack, a retaining pawl for keeping the pillar stationary when the actuating pawl is out of engagement with the rack, a curved plate spring having its ends attached respectively one to each pawl, means for retaining an operating lever in either of two alternative positions

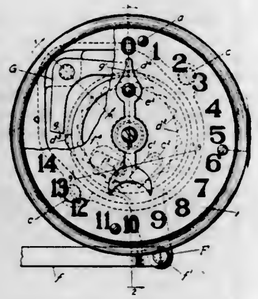
in said socket, in one of which said lever will exert pressure upon said curved spring tending to force both pawls into engagement with the rack, and in the other of which said pressure is removed from the curved spring.

1,379,737. TOOL. ERNST ANHEUSER, Racine, Wis. Filed Dec. 1, 1919. Serial No. 341,569. 4 Claims. (Cl. 29—103.)



1 A tool comprising a one-piece annular tubular member formed from a length of pipe, cutting teeth stuck up from the outer peripheral surface thereof, and a holder for said member.

1,379,738. SETTING MECHANISM FOR INDICATING REGISTERS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Aug. 8, 1918. Serial No. 248,885. 2 Claims. (Cl. 235—132.)



1. In an indicator capable of rotation in one direction only, the combination of a rotatable element and a non rotatable element adapted together to indicate quantity. the rotatable element being driven by the mechanism to which the indicator is attached; a cam on the rotatable element whose receding portion forms two positioning shoulders disposed in opposition to each other; the non-rotatable element constituting resetting means with engagement faces disposed in opposition to each other, one of said faces adapted to be brought into engagement upon rotation of the cam with its opposing shoulder by action of the cam on the non-rotatable element, arresting rotation at the starting point on the indicator, and then to drop into the receding portion of the cam and free said face of said shoulder.

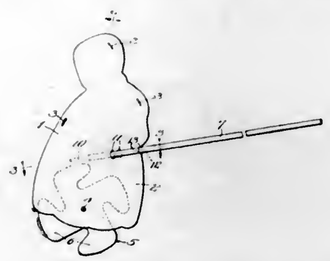
1,379,739. PICTORIAL DEVICE. BEATRICE M. BENNETT, Philadelphia, Pa., assignor to International Art Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 3, 1920. Serial No. 378,492. 2 Claims. (Cl. 40—150.)

1. A display device comprising a display member and an easel therefor consisting of a receptacle open at its top and having upstanding sides and a horizontal bottom, said sides and bottom being permanently secured to each other at their adjoining edges, one of said sides attached to said display member with its plane parallel to the plane of said display member, said sides except the one attached



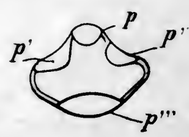
to said display member, folding into parallelism with said one of said sides, and said bottom folding parallel with said display member, said receptacle both when folded and extended being disposed entirely on one side only of said display member.

1,379,740. TOY. WILLIAM BLEESING, CHARLES F. HOWARD, and SIDNEY A. PEXTON, Chicago, Ill., assignors to Chicago Novelty Co., Chicago, Ill. Filed Nov. 11, 1920. Serial No. 423,255. 5 Claims. (Cl. 46—40.)



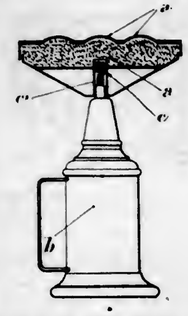
1. A toy comprising two sheets of cardboard or similar material secured together at their edges only, in combination with a handle member bifurcated or split at its attachment end to provide two prongs adapted to straddle the edge portion of the top, and the two sheets of cardboard provided with openings permitting the insertion of the two prongs through the sides of the toy to extend between same.

1,379,741. ARTIFICIAL EYE. BRUNO CAMILLE VICTOR BOURDEAUX, Evreux, France. Filed July 20, 1920. Serial No. 397,622. 3 Claims. (Cl. 3—13.)



1. An artificial eye comprising a front portion formed to present a lower part of regular segmental outline and an upper part of substantially triangular shape with rounded upper summit, the side portions of the triangular part being curved, the major longitudinal axis corresponding substantially to the slit between the closed eyelids.

1,379,742. APPARATUS FOR HEATING BY CATALYSIS. RAMON CAMELL, Rhône, and LAURENT COCHET and JOSEPH GRITTE, Lyon, France, assignors to Societe Lyonnaise Des Richauds Catalytiques, Camell, Cochet, Gritte & Cie., (Societe en Commandate,) Rhône, France. Filed May 26, 1919. Serial No. 299,784. 2 Claims. (Cl. 158—97.)



2. In a catalytic heating apparatus, a catalytic pad, the radiating surface of which is formed with a plurality of bosses, and means for supplying inflammable vapor to said pad.

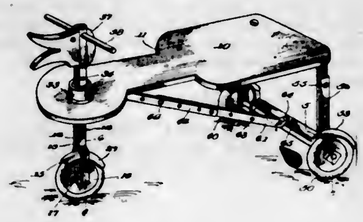
1,379,743. RUBBER-COMPOUNDING MIXTURE. GEORGE J. CHERTOFF, Cleveland, Ohio. Filed Mar. 20, 1918. Serial No. 223,660. 7 Claims. (Cl. 106—23.)

1. A fluid rubber-compounding mixture, consisting of a resinous substance and a relatively non-volatile solvent incorporated in the presence of heat, substantially as set forth.

1,379,744. PREPARATION FOR THE TEETH. WILLIAM CONGREVE, Cheltenham, England. Filed Mar. 23, 1920. Serial No. 368,135. 2 Claims. (Cl. 167—9.)

1. A preparation for the teeth consisting of substantially equal proportions of soap and common salt, a larger proportion of sulfur, and a still larger proportion of powdered chalk.

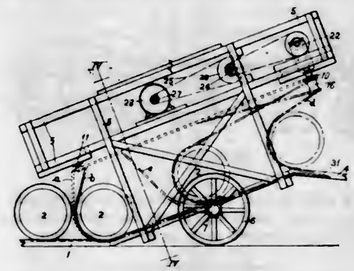
1,379,745. VEHICLE. JAMES P. COUGHLIN, Hastings, Nebr. Filed Feb. 14, 1920. Serial No. 358,723. 13 Claims. (Cl. 208—165.)



1. A vehicle including a body, an axle, a supporting member secured to the body and comprising an arm, a yieldable connecting portion and an upstanding portion secured to said connecting portion and having an opening receiving said axle, and a wheel connected to said axle.

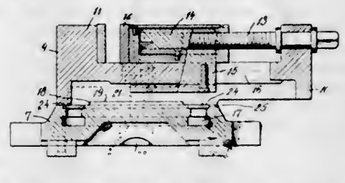
1,379,746. LOADING DEVICE. ALFRED EDWIN CULLEY, Stapenhill, Burton-on-Trent, England. Filed Apr. 29, 1919. Serial No. 293,525. 5 Claims. (Cl. 214—94.)

1. In apparatus for raising casks and the like, in combination; a main frame, a pair of endless driving chains carried on sprocket wheels mounted on the frame and having parallel adjacent portions; means for driving the endless chains; a pair of hauling chains, one end of each of



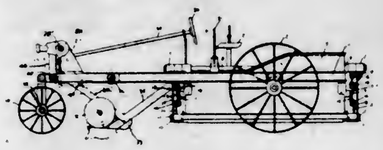
which is fixed to the frame and the other ends of which are attached to corresponding links of the respective driving chains.

1,379,747. VISE. MATTHEW S. CUMNER, New York, N. Y. Filed July 21, 1919. Serial No. 312,406. 7 Claims. (Cl. 81—41.)



1. A rotatably adjustable vise comprising a base provided with an undercut circular slot, a closure for said slot rotatably adjustable on the base, a clamp rotatably mounted on the base over said rotatable closure, and bolts confining said clamp to the base having head portions working in the under-cut slot, said rotatable slot closure having openings for the passage of said bolts therethrough.

1,379,748. ROAD-GRADING MACHINE. ALBERT N. DAYWITT, Frankfort, Ind. Filed Dec. 1, 1919. Serial No. 341,715. 5 Claims. (Cl. 37—32.)

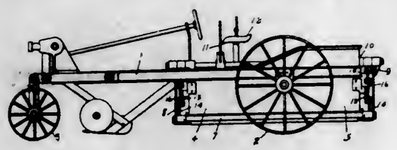


1. A grading machine comprising a frame, a cutting mechanism attached to said frame, a toggle member cooperating with the forward end of said frame and connected with said cutting mechanism, and means for operating the toggle member for raising and lowering the cutting mechanism.

1,379,749. DUMPING MECHANISM FOR ROAD-GRADERS. ALBERT N. DAYWITT, Frankfort, Ind. Original application filed Dec. 1, 1919, Serial No. 341,715. Divided and this application filed Sept. 13, 1920. Serial No. 409,991. 2 Claims. (Cl. 298—31.)

1. The combination with a bed having a discharge opening through the bottom thereof, of a false bottom for closing said opening, brackets having arms supporting said false bottom, a shaft to which said brackets are attached, a pair of toggle levers pivoted together at one end and having their opposite ends pivoted respectively to said

bed and said brackets, links pivotally secured together and having their ends connected respectively with said



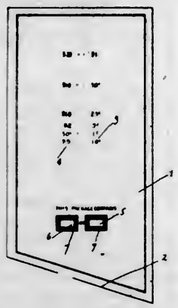
shaft and said levers, and means for rotating said shaft for operating said links and levers for releasing and moving said false bottom to open or closed position.

1,379,750. VISUAL WEATHER-SCREEN. SAMUEL AUGUSTINE DE NORMANVILLE, London, England. Filed June 28, 1920. Serial No. 392,348. 7 Claims. (Cl. 20—40.5.)



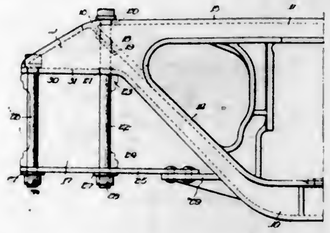
1. A centrifugal visual weather screen comprising a rotary transparent disk, radial flow vanes on said disk, adjacent to the circumference thereof adapted to be driven by the air impinging on the face of said disk and deflected by said vanes tangentially outward.

1,379,751. COIN-WRAPPER. CLEMENT L. DOWNEY, Cincinnati, Ohio. Filed Sept. 25, 1919. Serial No. 326,112. 2 Claims. (Cl. 133—10.)



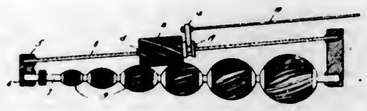
1. A coin wrapper bearing numerals and having an orifice positioned to expose said numerals when the wrapper incloses a roll of coin, said orifice having a border of a color contrasting with the color of the wrapper and with that of the exposed numerals.

1,379,752. SIDE FRAME. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 8, 1920. Serial No. 372,220. 4 Claims. (Cl. 105—205.)



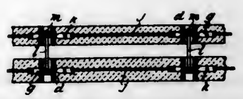
1. In combination, a truck side frame including tension and compression members and a journal box receiving portion cast in a single piece, the tension and compression members being of channel section with the webs thereof at the upper side of each of said members, respectively, and being joined directly to each other at the journal box receiving portions, a journal box, and bolts for securing said journal box to the side frame, one of said bolts passing through openings in the webs of said tension and compression members and said journal box receiving portion.

1,379,753. GEAR-SHIFT. ROBERT F. FORKNER and JOSEPH P. DEHAVEN, Princeton, W. Va. Filed Aug. 10, 1920. Serial No. 402,514. 2 Claims. (Cl. 74—58.)



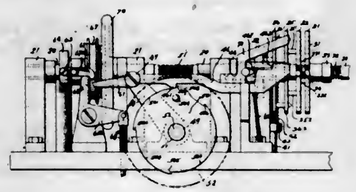
2. In a change speed mechanism, a drive shaft and a driven shaft, a plurality of gear wheels carried by the drive shaft, said gear wheels being oval in formation and having spirally formed teeth on the periphery thereof, a gear wheel splined on the driven shaft, means for moving the last mentioned gear wheel into mesh with a gear wheel of the first mentioned shaft, and means to permit rotation of the first mentioned gear wheels with relation to the drive shaft.

1,379,754. CONCRETE WALL. GEORGE HENRY FORRESTER, Iver, England. Filed Oct. 5, 1920. Serial No. 414,792. 7 Claims. (Cl. 72—48.)



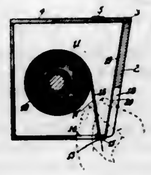
1. A device for use in constructing walls of concrete and the like consisting of a tube and a bar extending transversely through the tube having arms on opposite sides and a bolt receiving hole within the tube, one of said arms being provided outside the tube with a bar receiving hole.

1,379,755. APPARATUS FOR MAKING WINDINGS. CHARLES W. FRANCIS, Paterson, N. J., assignor to Gillespie Motor Company, Paterson, N. J., a Corporation of Delaware. Filed Feb. 3, 1920. Serial No. 356,027. 25 Claims. (Cl. 140—92.2.)



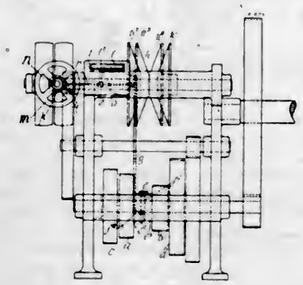
1. In a coil winding machine, a plurality of unitary forms of progressively increasing area, with the smallest form only in operative position, means to rotate the forms and means to move each form as a unit into operative position.

1,379,756. PAPER-DISPENSER. WILLIAM N. FRIEND, Oakland, Calif. Filed Mar. 8, 1920. Serial No. 363,996. 1 Claim. (Cl. 211—31.)



A paper dispenser, a box for containing the paper, the bottom of the box being provided with a slot in its lower wall through which the forward end of the paper extends, a guide for guiding the paper through said slot, the forward wall of the box being provided with a slot, the guide being provided with a slot in alinement with the slot in said forward wall, the slot in the lower wall of the box being provided with a rear enlargement in alinement with said other slots, and a knife edge at the lower edge of the slot in said lower wall.

1,379,757. VARIABLE-SPEED CHANGE-GEAR INDICATOR. JOHN GALLIMORE, Edinburgh, Scotland. Filed Nov. 25, 1919. Serial No. 340,645. 5 Claims. (Cl. 116—116.)



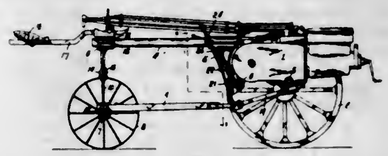
1. Variable speed change gear comprising a toothed change speed gear and a belt pulley change speed gear, speed indicating scales corresponding in number to the speed changes of the toothed gear and adapted to be brought singly into an indicating position, a pointer cooperating with said visible scale, and means whereby said scales are moved to indicate the change in speed of said toothed change speed gear and the pointer to indicate the change in speed of the belt pulley change speed gear separately and simultaneously on one indicating scale consequent upon the operation of each of said gears.

1,379,758. COMBINED BRUSH AND HOLDER. KIMBER A. GEORGE, Philadelphia, Pa. Filed July 2, 1919. Serial No. 308,305. 1 Claim. (Cl. 132—81.)



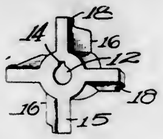
In a device of the character described, the combination with a section, closed at one end by an inwardly projecting integral socket, and having an exterior flange adjacent thereto, with an exterior bead adjacent to the opposite end; of a brush held within said socket; a second section telescopically inclosing the aforesaid section, open at both ends, one of which is reduced in diameter so that the interior thereof is substantially the same diameter as the exterior of that portion of the aforesaid section between the flange and head thereon; a cap closing the open end of the first of said sections; and a container mounted in said cap.

1,379,759. DRAFT APPLIANCE FOR TRACTORS. FRANK H. GERDEMAN, Findlay, Ohio. Filed Jan. 12, 1920. Serial No. 350,839. 4 Claims. (Cl. 180—12.)



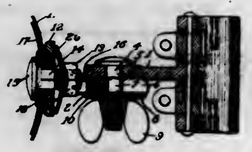
1. The combination with a tractor, of a draft element projecting rearwardly therefrom, an apparatus trailing from the tractor, and a pair of supporting members rising from the apparatus in transversely spaced relation crossing each other and connected in transversely spaced relation at their upper ends to the draft element for movements relative thereto.

1,379,760. GUDGEON. CARL CHESTER HARRIS, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1919. Serial No. 336,951. 8 Claims. (Cl. 64—41.)



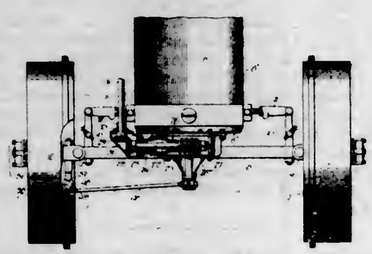
1. As an article of manufacture, a gudgeon having angularly disposed wings for turning the gudgeon as it is driven into the end of a roll.

1,379,761. LAMP-BRACKET. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Aug. 4, 1919. Serial No. 315,076. 6 Claims. (Cl. 240—7.)



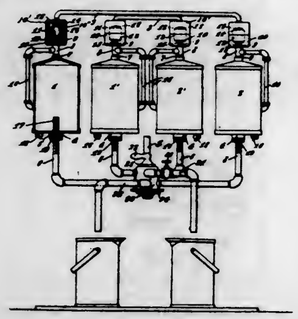
1. A lamp bracket comprising a pair of arms, a bolt connecting said arms for relative rotation, a set nut on said bolt, a retainer clamped by said nut, and a lamp attaching bolt mounted on one of said arms and locked by said retainer.

1,379,762. GUIDING MECHANISM FOR TRACTORS. ROBERT O. HENDRICKSON, Racine, Wis., assignor to J. I. Case Plow Works Company, Racine, Wis., a Corporation of Delaware. Filed May 14, 1920. Serial No. 381,267. 3 Claims. (Cl. 280—96.)



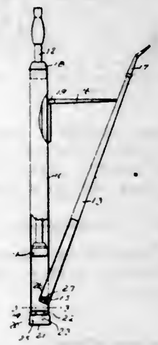
1. In a steering mechanism for tractors and the like, a front axle, a body pivoted thereto upon a horizontal axis, front wheels, knuckles on which the front wheels are journaled, pivoted on vertical axes to the respective ends of the front axle, connections between the knuckles for securing common movement thereof, an arm projecting from one of said knuckles, a longitudinally extending shaft mounted directly above and in the plane of the pivot between the front axle and the body portion of the tractor, an arm on said shaft, a horizontal pin journaled in said arm and substantially in the line of the pivot pin between the axle and the body, a link connecting said pin and the forwardly projecting arm on the knuckle, and means for oscillating said shaft.

1,379,763. LIQUID-MEASURING DEVICE. THOMAS L. HERBERT and MORRIS W. ASKIN, Washington, D. C. Filed Jan. 9, 1920. Serial No. 350,355. 5 Claims. (Cl. 221—116.)



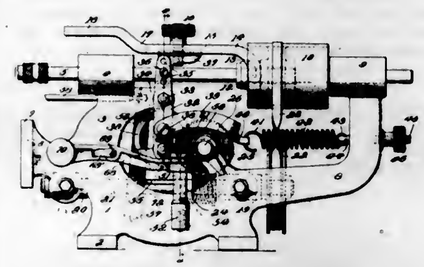
1. In a device of the class described tanks each embodying a part constituting a combined liquid inlet and liquid outlet; an air conduit connecting the tanks; a source of liquid supply; and a valve common to said parts and to the source, the valve operating to connect one of said parts with the source and simultaneously to place the other of said parts in communication with the atmosphere.

1,379,764. PUMP. TOBIAS HOIL, Buffalo, N. Y., assignor to Robert L. Phillips, Atlanta, Ga. Filed Mar. 25, 1920. Serial No. 368,522. 3 Claims. (Cl. 251—127.)



1. In a pump, the combination of a chamber having side walls and an end wall with an opening therein for the passage of liquid, and a valve controlling said opening and consisting of a non-circular disk which rests loosely on said end wall over said opening and a stop which projects from said valve in position to engage said end wall to limit the opening movement of the valve, the side walls of said chamber being so formed as to hold said valve in place over said opening.

1,379,765. AUTOMATIC DRILLING-MACHINE. EDWARD JOSLIN KINGSBURY, Keene, N. H. Filed May 5, 1919. Serial No. 294,891. 30 Claims. (Cl. 77—32.)

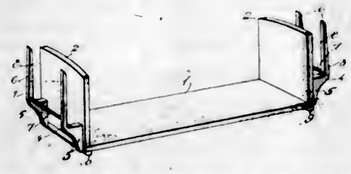


1. A drilling machine comprising a rotating drill spindle, yielding means for feeding the same forward, and automatic means controlled by the rotation of the drill spindle for regulating the maximum feed of said spindle.

4. A drilling machine comprising a rotating drill spindle, yielding means for feeding the same forward, and automatic means controlled by the rotation of the drill spindle for maintaining a uniform maximum feeding of the same when the character of the work being operated upon does not offer sufficient resistance to maintain a consistent or normal feed.

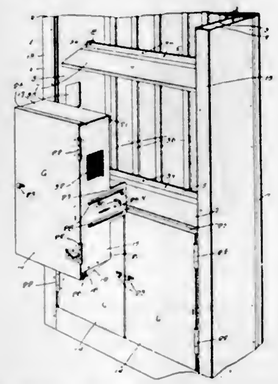
1,379,766. PORTABLE BOOK-HOLDER. JOHN KOBLOS, Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,616. 1 Claim. (Cl. 45—1.)

A book holder having a basal support for books, uprights at the ends of said support for maintaining the books in vertical positions, an open-top rack associated with one of said uprights and comprising spaced brackets



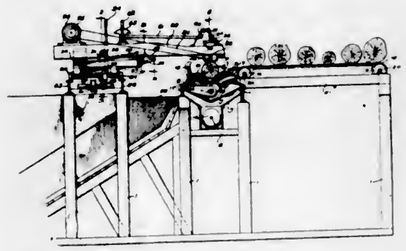
having free upper ends terminating at substantially the top of the book holder, and a cross bar uniting said brackets and constituting a handle for the book holder.

1,379,767. SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Dec. 26, 1917, Serial No. 208,799. Divided and this application filed Feb. 11, 1919. Serial No. 276,349. 7 Claims. (Cl. 175—300.)



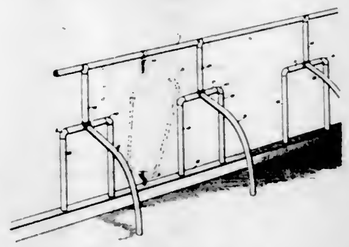
1. In a switch board structure, a removable switch unit made up as a container, having a front wall, top and bottom walls and opposite side walls, and portions of said opposite side walls being extended laterally beyond the front wall whereby to constitute a mounting for mechanisms exteriorly of the container.

1,379,768. LOG-PEELER. JULIUS NICHOLAS LARSON, Dexter, Mich. Filed July 24, 1920. Serial No. 398,780. 4 Claims. (Cl. 144—208.)



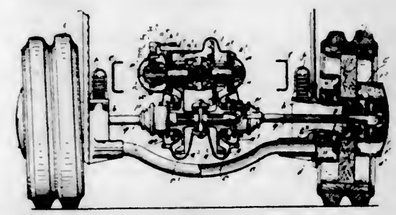
1. In a log peeler, the combination of means for supporting and rotating a log, a reciprocating carriage, adjustable supporting means carried by the carriage and cutting mechanism mounted on said supporting means, of an equalization gage secured to said cutting mechanism and connecting it to said supporting means, said gage comprising a plurality of links arranged in pairs, and pivotally connected to the opposite ends of the cutting mechanism, cross links pivotally secured to the upper ends of said links and connecting the links of each pair, and links pivotally connected to said cross links and connecting them to said supporting mechanism.

1,379,769. COW-STALL. JOHN MINOR BOTTS LEWIS, Lynchburg, Va., assignor to Cowmatic Corporation, Lynchburg, Va., a Corporation of Virginia. Filed May 20, 1920. Serial No. 382,967. 3 Claims. (Cl. 119—27.)



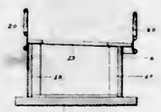
1. In cow stalls, the combination with a horizontal supporting rail and stanchions supported thereon, of an upright member connected to the supporting rail and extending downwardly, a horizontal member secured to said upright member at a point below the normal level of a cow's neck, and spaced vertical members secured to each end of said horizontal member and secured to the floor.

1,379,770. REAR-AXLE DRIVE. ALEXANDER LUCAND, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 25, 1919. Serial No. 306,678. 1 Claim. (Cl. 74—100.)



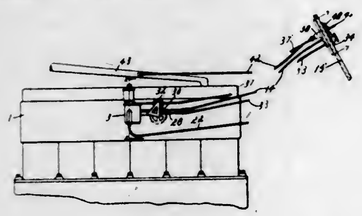
In a rear axle drive for motor vehicles, a differential gear including differential stub shafts, a housing for the gear having sleeves through which said stub shafts extend, gears journaled on the sleeves and provided with hubs in driving engagement with the shafts, a jaw clutch feathered on one of the stub shafts and engageable with the housing of the differential, a pin carried by said clutch and extending through and above the adjacent gear hub, a sleeve mounted slidably on said hub and adapted to engage the pin, and slide the clutch to lock the housing to the last named stub shaft.

1,379,771. SEAT CONSTRUCTION FOR VEHICLES. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 5, 1917. Serial No. 194,902. 8 Claims. (Cl. 155—5.)



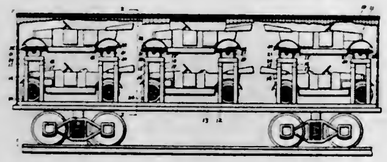
2. A seat construction for vehicles, comprising a seat support; and a seat carried thereby, with the top of said seat sloping downwardly from the center of the vehicle toward the outside.

1,379,772. CARBURETER. FRANK D. MALTBY, Battle Creek, Mich. Filed Oct. 10, 1917. Serial No. 195,714. 6 Claims. (Cl. 123—180.)



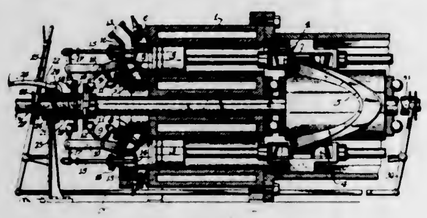
1. In a carbureter, the combination of a fuel reservoir, a nozzle, a fuel feed valve having a plurality of delivery ports of varying size, a pump cylinder having a side connection with said fuel reservoir and an end connection with said fuel valve, a plunger adapted when in its retracted position to uncover said reservoir connection, and an actuating means for said plunger whereby said plunger is gradually actuated to deliver the priming charge at an approximately uniform rate during the delivery stroke of the plunger.

1,379,773. MEANS FOR SUPPORTING AUTOMOBILES IN FREIGHT-CARS. JOHN C. MILLER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,833. 5 Claims. (Cl. 105—368.)



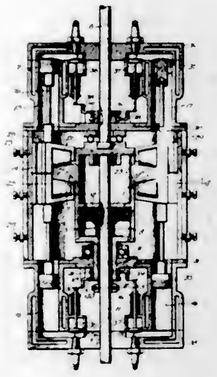
1. In a system for supporting automobiles in freight cars, a temporary knock-down frame comprising a plurality of uprights adapted to bear against and be secured to opposite sides of a freight car, each pair of oppositely arranged uprights being connected by a transverse beam which extends across the entire width of the car, and axle blocks supported by and between adjacent transverse beams.

1,379,774. REVERSING MECHANISM. PETER W. MURPHY, Chicago, Ill., assignor to Murphy Engineering Co., Detroit, Mich., a Corporation of Michigan. Filed July 8, 1918. Serial No. 243,810. 8 Claims. (Cl. 123—58.)



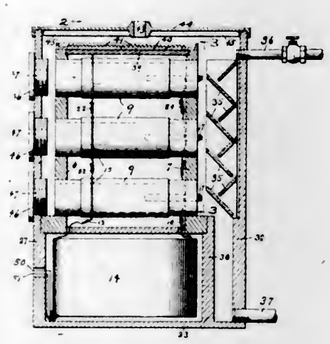
1. In an explosive engine of the type described, a main shaft, a set of cylinders arranged around the shaft, pistons for the cylinders connected to the shaft to cause interroration of the shaft and set of cylinders, a cam fixed on the shaft for operating the intake valves to the cylinders in timed relation to the piston movement, and a cam adjustable on the shaft to operate the exhaust valves to the cylinders at either side of the intake valves.

1,379,775. INTERNAL-COMBUSTION ENGINE. PETER W. MURPHY, Chicago, Ill., assignor to Murphy Engineering Company, Chicago, Ill., a Corporation of Michigan. Filed Feb. 10, 1919. Serial No. 276,194. 7 Claims. (Cl. 123—58.)



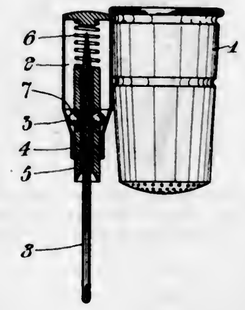
2. An internal combustion engine comprising a main shaft, cylinders and pistons disposed parallel to the shaft, a cam carried by the main shaft and rotated by the pistons, a drive shaft, and clutch mechanism carried within the main shaft cam connecting the main and drive shafts.

1,379,776. OZONIZER. MELVIN J. NAPIER, Akron, Ohio. Filed Apr. 8, 1920. Serial No. 372,338. 8 Claims. (Cl. 204—32.)



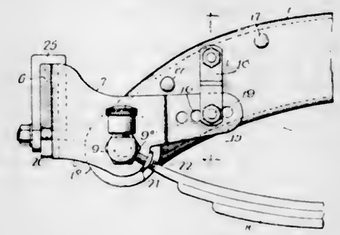
1. In an ozonizer, the combination of a pair of supports, a porcelain tube mounted therein, and a pair of tubular electrodes, one on the outside and the other on the inside of the porcelain tube, the inner electrode being cylindrical and having external projections to space it from the porcelain.

1,379,777. THIMBLE ATTACHMENT. LUDWIG OSCAR ÖIJERHOLM, Eskilstuna, Sweden. Filed Sept. 11, 1918. Serial No. 253,502. 4 Claims. (Cl. 223—51.)



1. The combination with a thimble of a pinching attachment for grasping a needle comprising a spring-actuated grasping member adapted by spring-action to bear against the needle introduced in the pinching attachment and to automatically grasp said needle.

1,379,778. ATTACHING-BRACKET. WILLIAM G. PANCOAST and WILLIAM J. GROTENHUIS, Chicago, Ill., assignors to Biflex Products Company, Waukegan, Ill., a Corporation of Illinois. Filed Nov. 1, 1920. Serial No. 421,197. 7 Claims. (Cl. 293—55.)



2. An attachment bracket for bumpers comprising a plate adapted to be clamped to the side of a vehicle frame member by means of the spring pivot bolt thereof, said plate having a rearwardly extending arm and a series of longitudinally spaced holes therein and a link adapted to be connected at one end to a hole in said frame member and at its other end to one of said holes in said arm and substantially in vertical alinement with said hole in the frame member.

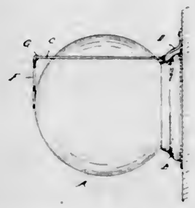
1,379,779. FILE. ERIC M. PRITZ, Jackson, Ohio. Filed Oct. 4, 1919. Serial No. 328,416. 3 Claims. (Cl. 29—78.)

1. A file having oppositely arranged faces, each face being provided with two sets of teeth, the sets of tooth upon each face extending longitudinally thereof side by side, all of the teeth in each set extending in the same direction, the teeth in each set upon one face of the file extending in the same direction as the teeth upon the same side of the opposite face, the last named teeth upon the opposite faces being continuous about the edge of the file, the teeth in one set upon each face being inclined in the



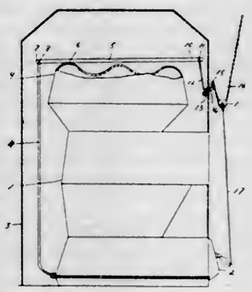
same direction transversely of the face with the teeth in the other set upon the other face.

1,379,780. ILLUMINATED HOUSE-NUMBER. OTTO PROCHAZKA, Detroit, Mich. Filed July 3, 1919. Serial No. 308,597. 3 Claims. (Cl. 40—131.)



1. In a device of the character described, the combination with a porch globe, of a ring embracing the upper portion of said globe, a bendable bracket secured to said ring and attachable to the surface supporting the globe, and a series of digits depending from the ring at the front of the globe and forming a house number.

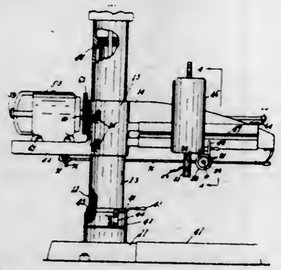
1,379,781. AUTOMATIC DAMPER-REGULATOR. WILLIAM V. ROBINSON, Owosso, Mich., assignor to Independent Stove Company, Owosso, Mich., a Corporation of Michigan. Filed Nov. 10, 1919. Serial No. 337,083. 4 Claims. (Cl. 236—104.)



1. The combination in a heater of a fire box having a vertically expansible upper chamber terminating in an annular crown, a casing inclosing the fire box in spaced relation thereto, a draft door for the heater, a fulcrum member secured to the heater base and extending upward

in the space between the heater and the outer casing, a lever pivotally engaging said fulcrum member and supported upon said annular crown on the side adjacent to said fulcrum, said lever having a multiplying arm extending from the point of bearing on said crown to the opposite side of the heater, and an operating connection between the free end of said lever and said draft door.

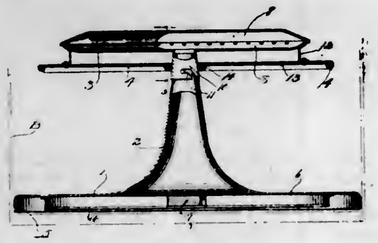
1,379,782. ELECTRIC DRIVING MEANS FOR DRILLING MACHINERY. HERMAN W. SCHATZ, Norwood, Ohio. Filed June 9, 1917. Serial No. 173,800. 5 Claims. (Cl. 77—28.)



1. In a drilling machine, the combination of a column, a drill-arm adjustable up and down on said column, a tool-spindle adjustable laterally on said drill-arm, an electric motor mounted on said drill-arm having operative connection with said tool-spindle for operating the same, an electric control device on said drill-arm distanced from said tool-slide, and a manual control moving with said tool-slide for said electric control device for operating the latter.

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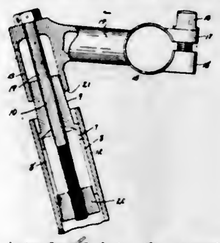
1 79,783. FOUNTAIN-WASHER FOR CLOTHES-OILERS. ALFRED H. SCHWALLER, Milwaukee, Wis. led Feb. 9, 1920. Serial No. 357,276. 1 Claim. (Cl. —30.)



A fountain attachment for clothes boilers comprising a base portion adapted to seat on the bottom of the boiler and to form therewith an inclosed space, a hollow column extending upwardly from the center of said base portion and in communication therewith, the upper surfaces of said base portion and the side of said column forming a continuously curved surface, an elongated hollow head detachably mounted on the upper end of said column and in communication therewith, the upper side of said head being in cross section substantially in the shape of an inverted V, and the lower side of said head being semi-cylindrical, the upper wall of said base portion and the lower side of the head being perforated to permit a continuous circulation of water therethrough.

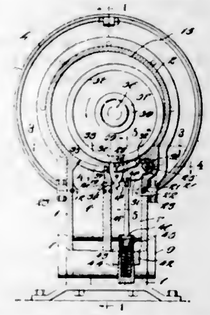
1,379,784. HANDLE-BAR-POST-REPAIR PART FOR BICYCLES. ISRAEL SCHWARTZ, Danbury, Conn. Filed Nov. 29, 1920. Serial No. 427,060. 2 Claims. (Cl. 208—115.)

1. A handle-bar post repair-part for bicycles, the said part having a tubular lower portion formed with a longitudinal slot entering its open lower end and formed at its upper end with an integral tapering tenon traversed by a concentric bolt hole, the tubular portion of the part being



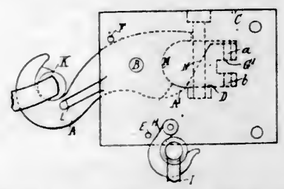
adapted to be introduced into the steering-fork tube of a bicycle and the tenon of the part being adapted in size to be crowded into the broken end of a tubular handle-bar post.

1,379,785. PUMP. JILES S. SHOCKLEY, Nashville, Tenn., assignor to The Shockley Motor Company, Nashville, Tenn., a Corporation of Delaware. Filed Sept. 16, 1918. Serial No. 254,336. 7 Claims. (Cl. 103—44.)



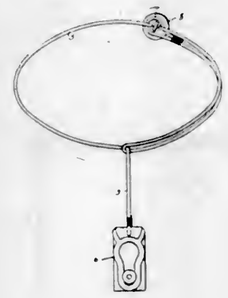
1. In a pump of the character set forth, the combination of a casing having a cylindrical chamber, a cylindrical piston of lesser diameter than the chamber and situated therein, means for impelling the piston about the chamber in contact with the cylindrical wall thereof, the chamber having an inlet and an outlet port, a valve element pivoted exteriorly of the chamber and having a fin projecting through the cylindrical wall of the chamber between said ports, and bearing upon the cylindrical face of the piston throughout the breadth thereof, a rod, an equalizer interposed between said rod and the valve element, and a compression spring supported within the casing and tending to force the rod in a direction to engage the fin of the valve element with the periphery of the piston.

1,379,786. SLIP-HOOK. ALFRED EDWARD SMITH, London, England. Filed May 19, 1919. Serial No. 298,350. 3 Claims. (Cl. 294—82.)



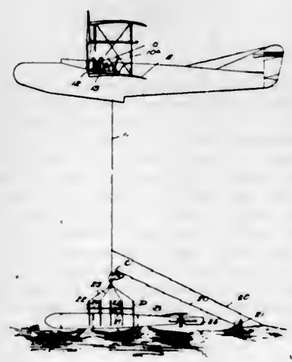
1. A slip hook in combination with side plates pivotally supporting same, a curved tapering head on a turnable member having teeth formed on a segmental portion thereof, and a toothed hand-lever to engage with those on the turnable member as stated.

1,379,787. GARTER. WILLIAM H. SMITH, New Haven, Conn. Filed Feb. 18, 1921. Serial No. 446,007. 2 Claims. (Cl. 241—6.)



1. A garter comprising an elastic cord formed with a loop at one end and provided with a hose-supporting clasp at the opposite end, and a button mounted on the cord between its ends.

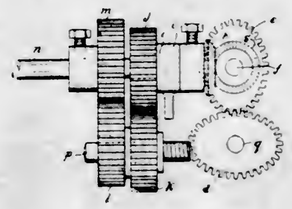
1,379,788. METHOD OF AND APPARATUS FOR DELIVERING TORPEDO ATTACKS FROM AIR CRAFT. ANDREW JACKSON STONE, Washington, D. C., assignor to the Government of the United States. Filed Dec. 27, 1918. Serial No. 268,560. 13 Claims. (Cl. 244—1.)



1. The method of attack herein described, which consists in suspending a torpedo from an aircraft, transporting the torpedo with the same in close proximity to the surface of the water, indicating to the aviator the relative position of the torpedo with respect to the surface of the water, and automatically releasing the torpedo when it has been brought to the proper launching position relative to the water.

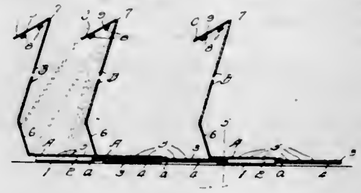
1,379,789. COMBING-MACHINE OF THE NASMITH TYPE FOR COMBING COTTON OR OTHER TEXTILE FIBERS. JOSEPH TURNER, Manchester, England. Filed Jan. 19, 1920. Serial No. 352,490. 2 Claims. (Cl. 19—6.)

1. In a combing machine of the Nasmith type, a cam shaft, a needle shaft separated from said cam shaft, a drawing head roller shaft, means for imparting rotary motion at a constant speed to said cam shaft, means between said cam and needle shafts for transmitting motion to the latter at variable speed, and means between



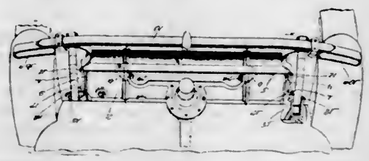
said needle shaft and drawing head roller shaft for transmitting motion to the latter at a constant speed.

1,379,790. SECTIONAL RECORD-SORTER. EDWARD P. WATERHOUSE, St. Louis, Mo. Filed Mar. 8, 1920. Serial No. 364,331. 8 Claims. (Cl. 45—4.)



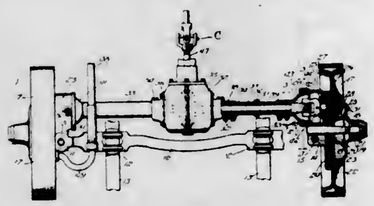
8. A sectional record sorter unit comprising a plurality of substantially Z-shaped sorter units consisting of a base having side ways, an extension member integral with the rear end of the base for interlocking engagement in the ways of the base of an adjacent sorter unit, and an angular partition extending from the forward end of each sorter unit base to provide a filling space between the partitions of adjacent sorter units, the base and extension of each sorter unit acting as a floor for the papers or cards being filed to rest upon.

1,379,791. REAR BUMPER FOR AUTOMOBILES. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 14, 1920. Serial No. 430,678. 2 Claims. (Cl. 293—55.)



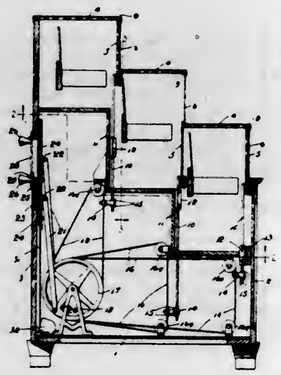
1. A rear bumper for automobiles comprising in combination with the vehicle side springs and the rear tank, a cross-bar mounted on the tank supports terminating at vertical fore-and-aft planes between the tank ends and the side springs; a fore-and-aft bumper-supporting arm which extends in said plane and abuts on the end of the cross bar, means for securing it thereto, and a shackle device clasping the spring at a point forward of the cross-bar and having a lug on which the forward end of the arm abuts and is secured.

1,379,792. VEHICLE FRONT-WHEEL DRIVING MECHANISM. MARTIN P. WINTHER, Kenosha, Wis., assignor to Winther Motor Truck Company, a Corporation of Delaware. Filed Apr. 17, 1918. Serial No. 229,016. 8 Claims. (Cl. 180—43.)



1. In a motor driven vehicle, the combination of a load supporting axle, wheel supporting frames mounted at the ends of said axle and provided with integral tubular extensions, a tubular member extending between said frames, the ends thereof having pivoted connection with said extensions, and a drive shaft mounted in said tubular member and extensions and having driving connection with the vehicle wheels.

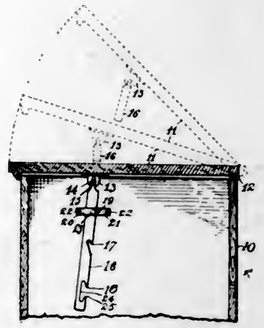
1,379,793. DISPENSING-SHOWCASE. BERT WOSINSKI, Grand Rapids, Mich., assignor to Loudon Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 19, 1920. Serial No. 352,441. 5 Claims. (Cl. 211—26.)



1. A showcase having a series of compartments arranged in stepped relation, the front wall of each compartment being slidable downward into the case to uncover the compartment, slides mounted on the back of the case, one for each front wall, endless cables connected one to each of said front walls, wheels, one for each cable, around which said cables pass at their lower portions, and means operatively connecting the slides and said wheels whereby on movement of a slide, the associated front wall of a compartment is correspondingly moved to either open or close the compartment.

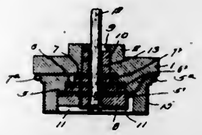
1,379,794. LID-SUPPORT. CHARLES A. AHLSTROM, Jamestown, N. Y. Filed Nov. 10, 1919. Serial No. 336,935. 6 Claims. (Cl. 217—60.)

1. A lid support comprising a catch pin on the inner side of the case, a latch bar pivotally and detachably attached to the under side of the lid and riding on said catch pin, said latch bar having downwardly projecting notches therein to engage on said latch pin and support



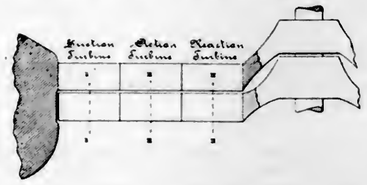
said lid at different heights, one of said notches constituting a straight two-way catch to engage said latch pin and limit both the downward and upward movement of said lid.

1,379,795. SWIVEL CONNECTION FOR ELECTRICAL CONDUCTORS. CHARLES O. ALLEN, Shawnee, Okla. Filed Apr. 9, 1919. Serial No. 288,754. 2 Claims. (Cl. 173—324.)



1. A swivel connection for electrical conductors comprising a body portion having a central recess and being provided with a plurality of shoulders in stepped relation bordering said recess, a contact ring carried by each shoulder, an auxiliary contact-bearing member having a plurality of shoulders, a contact carried on each shoulder of said auxiliary contact-bearing member, said auxiliary contact-bearing member being arranged to enter the recess of said body portion to bring its respective contacts into engagement with the rings of the body portion, a cap for retaining said auxiliary contact-bearing member in its operative position, the contacts of said auxiliary contact-bearing member being secured to the strands of an electrical conductor.

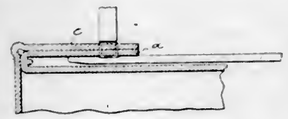
1,379,796. TURBINE. HANS BAUDISCH, Vienna, Austria, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Feb. 17, 1917. Serial No. 149,709. 9 Claims. (Cl. 253—141.)



1. In a full admission turbine having wholly filled runner buckets, the combination with the guide blade ring or stator of a runner or rotor having buckets, a portion of each bucket being of the reaction type, another portion being of the limit type and yet another portion being of the sucking jet type, whereby in the clearance space between

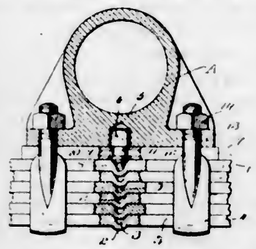
the stator and the rotor the surplus pressure over the pressure prevailing behind the runner is caused gradually to pass from a positive value to zero and thence to a negative value.

1,379,797. METHOD OF CONSTRUCTING AND SEALING SHIPPING-CASES. HERBERT R. BLISS, Monroe, Mich. Filed Jan. 26, 1920. Serial No. 354,174. 3 Claims. (Cl. 93—42.)



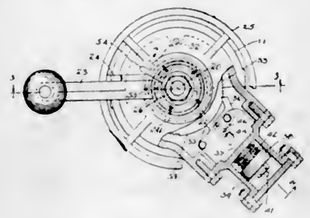
1. The method of constructing and sealing shipping cases of fiber or equivalent material, which comprises the constructing of the side walls and providing them with attaching flaps to parallel the side walls on the outside, the securing of a flanged cover over the end and the attaching flaps, and the passing of metal fastening members through the overlapped flanges and flaps and clenching them against a blade anvil inserted between the flaps and the side wall of the case.

1,379,798. VEHICLE-SPRING-RETAINING MEANS. EARL F. BURGESS, Racine, Wis. Filed Apr. 12, 1920. Serial No. 373,143. 3 Claims. (Cl. 267—52.)



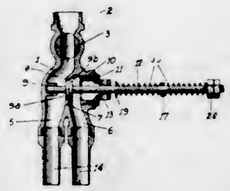
2. An underslung spring comprising a plurality of independent plates, each having a socket and a boss, each boss being extended downwardly and disposed in the socket of the next lower plate, an additional plate parallel to said first mentioned plates and having an opening therethrough, a plug extending through said opening and having each end enlarged so as to secure the same firmly in said plate, the lower end of said plug being extended into the socket of the uppermost of said first mentioned plates and the upper end being extended to form a boss adapted to engage a recess in the under side of an axle.

1,379,799. AUTOMATIC CUT-OFF FOR AIR JOLT-MACHINES. EDWIN S. CARMAN and EARL F. OYSTER, Cleveland, Ohio, assignors to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1919. Serial No. 283,148. 15 Claims. (Cl. 121—11.)



1. The combination with pressure-fluid actuated jolt-mechanism, of a valve controlling the supply of pressure-fluid thereto, means tending to close said valve, means for manually opening said valve, and an escapement adapted to regulate the closing of said valve.

1,379,800. MILKING-MACHINE. ROMEO A. CASAROTTI, Nicasio, Calif. Filed Apr. 8, 1920. Serial No. 372,114. 5 Claims. (Cl. 31—101.)



1. A pulsator for milking machines comprising a valve body adapted to be connected to a vacuum pipe line, a passageway leading from said body in continuous communication with said pipe line, another passageway leading from said body, the body being provided with spaced and oppositely alined ports leading to the last named passageway from the vacuum pipe line and the atmosphere respectively, and a common valve adapted to alternately seat in such ports to close the same.

2. A pulsator for milking machines comprising a valve body adapted to be connected to a vacuum pipe line, a passageway leading from said body in continuous communication with said pipe line, another passageway leading from said body, the body being provided with spaced and oppositely alined ports leading to the last named passageway from the vacuum pipe line and the atmosphere respectively, and a common valve adapted to seat in either at a time of such ports and to be positively normally seated in the port leading from the vacuum pipe line.

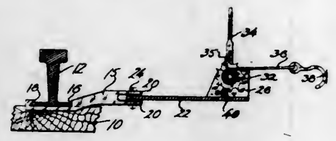
3. A pulsator for milking machines comprising a valve body adapted to be connected to a vacuum pipe line, a passageway leading from said body in continuous communication with said pipe line, another passageway leading from said body, the body being provided with spaced and oppositely alined ports leading to the last named passageway from the vacuum pipe line and the atmosphere respectively, a common valve adapted to alternately seat in such ports to close the same, a spring normally holding the valve seated in one of the ports, and a common means for moving said valve from said port to close the other port and for holding the same in such last named position for a predetermined period of time against the pressure of the spring.

4. A pulsator for milking machines comprising a valve body adapted to be connected to a vacuum pipe line, a passageway leading from said body in continuous communication with said pipe line, another passageway leading from said body, the body being provided with spaced and oppositely alined ports leading to the last named passageway from the vacuum pipe line and the atmosphere respectively, a common valve adapted to alternately seat in such ports to close the same, a stem on the valve projecting from the body, a rod parallel to the stem, an arm on the rod connected to the stem, and means for moving said rod a distance equal to the spacing of the ports in the body.

5. A pulsator for milking machines comprising a valve body adapted to be connected to a vacuum pipe line, a passageway leading from said body in continuous communication with said pipe line, another passageway leading from said body, the body being provided with spaced and oppositely alined ports leading to the last named passageway from the vacuum pipe line and the atmosphere respectively, a common valve adapted to alternately seat in such ports to close the same, a stem on the valve projecting from the body, a rod parallel to the stem, an arm on the rod connected to the stem, a power driven shaft at

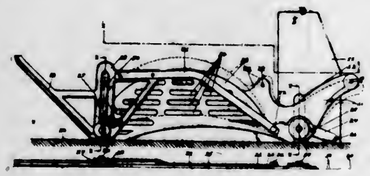
right angles to the rod, a cam on the shaft, and a lug on the rod with which the cam engages, the lug being held by the cam in such moved position for a predetermined portion of the rotation of the cam.

1,379,801. TIE-STRAIGHTENER. CHARLES L. COLE, Milford, Utah. Filed June 22, 1920. Serial No. 390,927. 5 Claims. (Cl. 254—43.)



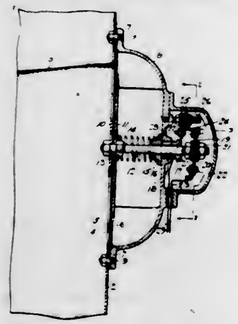
1. In a tie straightener, a solid plate having a recess in its upper face to receive the base of a rail, a reel supporting member at one end of the plate, and a reel on said member to carry a cable, said recess constituting the sole means for rtaining the plate on the rail.

1,379,802. SAW-GUARD. HAMILTON A. COOPER, Toledo, Ohio, assignor of one-half to Charles A. Briggs, Toledo, Ohio. Filed Oct. 1, 1917. Serial No. 194,179. 8 Claims. (Cl. 193—159.)



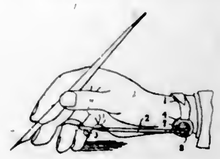
1. A device of the class described, comprising the combination of a saw table; a saw; a hood adapted to partially embrace said saw; a pair of independent guard members adjacent the forward end of said hood one on each side thereof; links connected to said guard members and pivotally connected to said hood near the rear end thereof; and means for limiting the movement of said guard members relative to said hood.

1,379,803. INDICATOR FOR STORAGE-HOPPERS OR OTHER RECEPTACLES. EDSON C. COVERT, New Kensington, Pa., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 27, 1918. Serial No. 219,530. 1 Claim. (Cl. 200—52.)



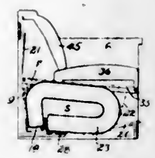
In an indicator of the character described, the combination with a hopper or other receptacle having an opening, a diaphragm covering said opening, a movable rod connected to said diaphragm, a dished member secured to said hopper at said opening, said rod passing through an opening in said dished member, a freely movable collar surrounding said rod, a spring interposed between said diaphragm and said collar, an adjusting screw surrounding said rod and passing through said dished member to engage said collar, an electrical contact carried by said rod, and a stationary electrical contact in the path of said first-named contact.

1,379,804. APPARATUS FOR INSURING THE CORRECT POSITION OF THE FINGERS AND HAND IN WRITING. ADELIN GISLAIN AUGUSTE SORNIN DE LEYSAT, Etterbeek-Brussels, and CHARLES DENIS DISCRY, Ixelles-Brussels, Belgium. Filed Nov. 29, 1920. Serial No. 427,201. 3 Claims. (Cl. 120—107.)



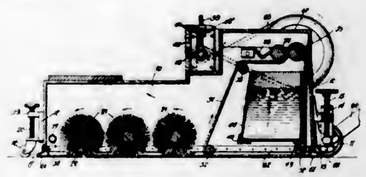
1. Apparatus for insuring the correct position of the fingers and hand in writing, comprising, a wristlet, a circular plate secured upon said wristlet, a thin steel strip having two ends, an adjustable pivotal connection between said plate and one end of said steel strip, and means for engaging and holding the third and fourth fingers of the hand in the other end of said steel strip.

1,379,805. SOFA-BED. JOSIAH A. DEWEY, San Francisco, Calif., assignor, by mesne assignments, to Murphy Door Bed Company, San Francisco, Calif., a Copartnership Firm consisting of William L. Murphy and William K. White. Filed May 5, 1917. Serial No. 166,607. 2 Claims. (Cl. 5—51.)



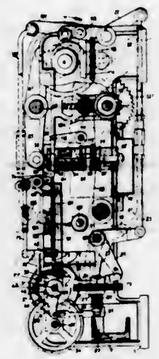
2. In a sofa bed, a housing, a middle section pivoted directly to said housing, a foot section pivotally mounted on said middle section, a head section pivoted directly to said housing, an upholstered mattress, and a wire fabric connected to said head and foot sections for supporting said mattress in horizontal position in the bed form of said sofa bed, and connected to said middle section to form a sling for supporting the folded mattress in the sofa form of said sofa bed.

1,379,808. BRUSHING AND SCRUBBING MACHINE. KAJETAN S. DUBICKI and PAUL J. MILLER, Battle Creek, Mich. Filed Nov. 28, 1917. Serial No. 204,417. 5 Claims. (Cl. 15—14.)



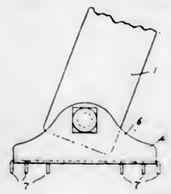
1. In a floor scrubbing machine, the combination of a casing open at its bottom, a sealing strip carried upon the lower edge of the casing for contact with the floor to seal the edge of the casing thereagainst, adjustable rollers mounted on the casing for supporting the same and maintaining the casing at the desired height to compress the sealing strip, means for delivering water into one end of the casing to wet the floor, a brush arranged in the casing adapted to work against the wet floor, and a wiper arranged within the casing for absorbing moisture on the surface of the floor subsequent to scrubbing.

1,379,807. MACHINE FOR PERFORATING JACQUARD-CARDS FOR EMBROIDERY-MACHINES. OTTO FAHRNI, Thoune, Switzerland, assignor to Leopold Wyler and Anna Helena Rieser-Beutter, Berne, Switzerland. Filed Nov. 8, 1920. Serial No. 422,655. 7 Claims. (Cl. 164—114.)



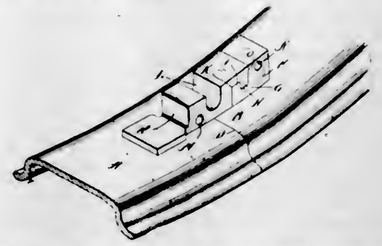
1. In a machine of the character described for perforating jacquard cards for embroidering machines, the combination with a punching device comprising a plurality of feeler members, a rotatable main determinative member arranged to control some of said feelers selectively and an auxiliary determinative member arranged to selectively control other of said feelers, of means positively connecting the said main and auxiliary determinative members together and arranged to impart the rotary movement of the former to the latter, said auxiliary determinative member being so arranged that the feelers controlled thereby are inoperative on the punching device when the main determinative member does not pass its zero position, and means for returning the said auxiliary determinative member into its zero position independently of the movement of said main determinative member, substantially as set forth.

1,379,808. SAFETY-SHOE FOR LADDERS. HERBERT W. FIES, Cleveland Heights, Ohio, assignor of one-half to Max L. Jeffrey, Cleveland, Ohio. Filed July 2, 1920. Serial No. 393,510. 1 Claim. (Cl. 228—61.)



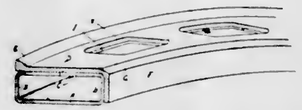
A shoe for ladders and the like, comprising a sheet metal member of uniform thickness provided with a series of integral gripping elements formed at each of its end portions and bent downwardly therefrom, a series of gripping elements located centrally in each half of said shoe and directed similarly to said end gripping members, intermediate series of gripping elements located between said first mentioned elements and stamped downwardly from said plate in an opposite direction and upwardly extending flanges on opposite sides of said member formed from the edge portions of the metal member, said flanges being adapted to removably receive the base of the ladder therebetween.

1,379,809. DEMOUNTABLE RIM AND MEANS FOR FASTENING SAME. EMORY M. FOSTER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 15, 1918. Serial No. 244,952. 5 Claims. (Cl. 301—30.)



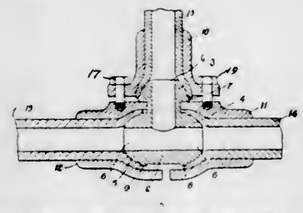
2. The combination with a fixed rim, of a transplit tire carrying rim adapted to be arranged thereon, said tire carrying rim having interlocking members connected to the ends of said rim, a bolt passing through the fixed rim, one of said members connected to the tire carrying rim having a transverse opening adapted to receive said bolt.

1,379,810. SHEET-METAL FELLY. HENRY J. FOSTER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 13, 1918. Serial No. 234,106. 2 Claims. (Cl. 301—96.)



1. A felly comprising a bottom, side walls, and inwardly projecting top portions cut away at intervals, and a band having openings at intervals, and arranged upon and attached to said top portions, the openings in the band registering with the openings in the felly top.

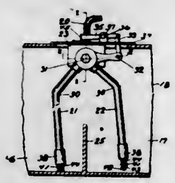
1,379,811. PIPE-JOINT AND THE LIKE. THOMAS LILLIE FYFFE, Dundee, Scotland. Filed Sept. 28, 1920. Serial No. 413,297. 1 Claim. (Cl. 285—84.)



A pipe coupling device, comprising a tubular three-way member having semispherical ends, an annular band encircling each of said ends, a tubular collar for each of said ends, each of said collars having a flared end adapted to encircle one of said semispherical ends and spaced there-

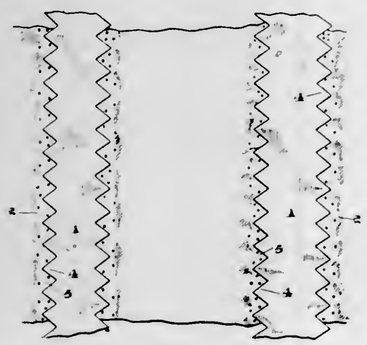
from a distance sufficient to accommodate the wall of a pipe between said semispherical end and said collar, each of said collars having a cylindrical portion adapted to encircle its pipe, and means for securing said collars together.

1,379,812. FUEL-RESERVE-SUPPLY SYSTEM. CHARLES F. GREEN, Defiance, and HARRY W. LINDSEY, Jr., Toledo, Ohio, assignors to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,994. 34 Claims. (Cl. 158—46.5.)



1. A device of the class described, comprising a tank having oppositely arranged liquid holding compartments, a pivoted recessed member having connections movable within the tank and adapted to alternately communicate with each of said compartments when in different positions of adjustment, and means for adjusting said member relatively to said tank.

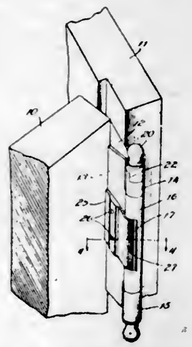
1,379,813. ROADWAY. ROBERT GREENE, London, Ontario, Canada. Filed Oct. 29, 1920. Serial No. 420,506. 4 Claims. (Cl. 238—5.)



1. In a road surface, a longitudinal strip of hard road material and an adjacent strip of relatively softer or less permanent material, the hard material having a continuous series of triangular projections formed integral therewith along its edge and forming triangular recesses into which the softer material of the adjacent strip extends.

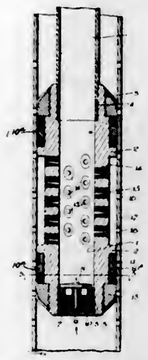
1,379,814. HINGE-BUTT. AUGUST J. GUSTAFSON, Maywood, Ill. Filed Mar. 18, 1921. Serial No. 453,306. 4 Claims. (Cl. 16—107.)

3. A butt embodying two members having alined knuckles, a freely removable pin passing through the knuckles for pivotally connecting the members, the said pin having a flattened portion, interengaging shoulders on the pin and one of the knuckles for maintaining the pin against rotation, an elastic element, and means securing the elastic element to one of the said members, said elastic element projecting between adjacent knuckles to engage and move over the surface of said pin for creating a friction to maintain the members in their relative adjusted positions and adapted to pass to the said



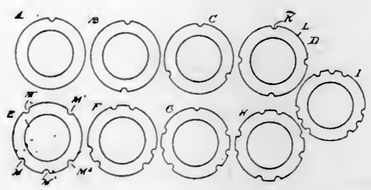
flattened portion of the pin to automatically swing one of the members about the pivot with respect to the other member.

1,379,815. OIL-WELL-SCREEN AND LINER CLEANER. JAMES ROBERT HALL, Winnfield, La. Filed July 30, 1920. Serial No. 400,101. 8 Claims. (Cl. 166—20.)



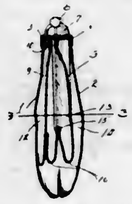
1. A device of the character specified, comprising a tubular body having a check valve at its lower end for preventing the outflow of water from the same, and having a series of radial, choked-bore nozzles in its side wall for directing the jets of water through a screen liner, said body having packing rings above and below the series of nozzles, and annular cutters detachably connected with the ends of the body for dressing the inner surface of the liner.

1,379,816. SHIM. FRED HASKEL, Detroit, Mich. Filed Dec. 24, 1917. Serial No. 208,663. 4 Claims. (Cl. 283—1.)



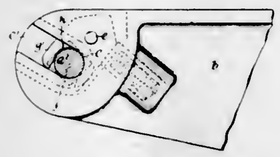
1. A set of metal shims comprising a plurality of shims of different thicknesses and identification marks formed by completely stamping out a portion of the body of the metal.

1,379,817. PURSE. HERMAN J. HEGWER, Oakland, Calif. Filed June 14, 1920. Serial No. 388,795. 5 Claims. (Cl. 150—37.)



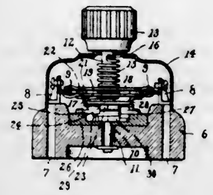
5. A purse comprising an outside container, an inner container, said containers having separate openings, bow closures for said openings whereby access may be had separately to either container, and said inner container having slots in the bottom to allow the free passage of smaller coins therefrom into said outer container while retaining the larger coins in the inner container.

1,379,818. BEARING. FLORENT HINNEKENS, Paterson, N. J. Filed Jan. 28, 1921. Serial No. 440,556. 3 Claims. (Cl. 64—10.)



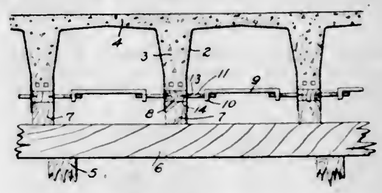
1. The combination of a bearing member having a bearing formed with an entrance thereto relatively lateral of the bearing axis, a crotched keeper movable on a pivot offset from said axis from a position where its crotch straddles said axis and opens in angular relation to the bearing entrance, thus to retain in the bearing the part to be journaled, into a position where its crotch faces toward said entrance, whereby to release said part, and spring means yieldingly resisting movement of the keeper from one of said positions to the other.

1,379,819. ELECTRIC SNAP-SWITCH. DAVID HJORTH, Bridgeport, Conn., assignor to The General Machine & Manufacturing Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 24, 1919. Serial No. 278,600. 6 Claims. (Cl. 200—63.)



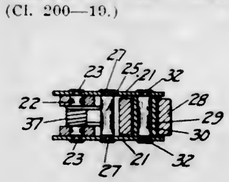
1. A rotary snap switch having a base, a rotary operating stem mounted therein, terminal posts, a switch bar rotatably mounted upon the stem to engage and disengage the terminals, a spring yieldably connecting the stem and switch bar, a series of spring pressed pawls carried by the base to temporarily engage and hold the switch bar against rotation, a cam secured to the stem and adapted to force the pawls outwardly to successively disengage them in a manner to allow the switch bar to throw against the next pawl in advance of the movement of said cam.

1,379,820. CONCRETE-FORM. CECIL B. HOPKINS, San Francisco, Calif. Filed Nov. 20, 1919. Serial No. 339,341. 1 Claim. (Cl. 25—131.5.)



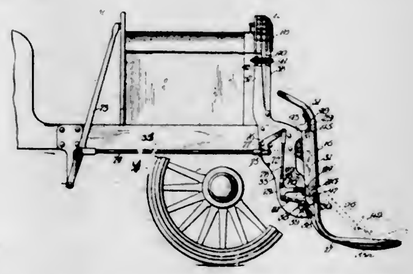
In combination with spaced wooden abutment supports, a plurality of overlapping metallic arch forms having substantially vertical sides extending between two adjacent supports and having their sides lying against the sides of said supports, said sides being provided adjacent their ends with series of vertically spaced apertures, the apertures on one end of one form being arranged to register with the apertures on the overlapping end of the adjacent form and holding means passed through selected registering apertures and into the wooden abutment supports and bearing against the surface of the inner form, for fixing and holding the forms in position on the abutment stops.

1,379,821. IGNITION-TIMER. EDWARD B. JACOBSON, Pittsfield, Mass., assignor to J and B Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Nov. 8, 1918. Serial No. 261,607. 3 Claims. (Cl. 200—19.)



1. In a device of the class described, a support, a contact-member mounted thereon and movable relatively thereto, and a hardened metallic bearing member rigidly mounted on said support and interposed between said support and the contact-member and adapted to maintain the axis of said contact-member in constant parallel relation to said support.

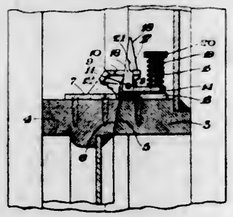
1,379,822. AUTOMOBILE-FENDER. CARL C. JENSEN and GEORGE H. IRWIN, Chicago, Ill., assignors to Standard Fender Co., Chicago, Ill., a Corporation of Delaware. Filed Apr. 6, 1918. Serial No. 227,106. 58 Claims. (Cl. 293—45.)



1. In a fender, the combination of a scoop section and a section arranged in juxtaposition to the scoop section, both of said sections being constructed to be raised and

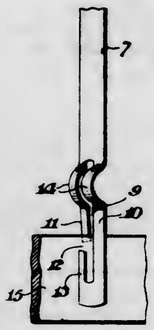
lowered independently of each other, one of said sections having means for raising the same and holding it in said last named position and being arranged to be automatically lowered when the holding means is released.

1,379,823. SASH-FASTENER. PETER H. JOHNSON and PAUL A. KOSECKI, Kenosha, Wis. Filed July 12, 1920. Serial No. 395,742. 3 Claims. (Cl. 292—128.)



1. In a sash fastener, the combination of a latch plate secured to an outer surface of one of the sashes, a bell crank lever vertically pivotally mounted on the other sash and exteriorly thereof, one arm of said lever having a locking latch engageable with said plate, and a spring acting on the other arm of said lever to hold the latch in locked position and draw the sashes together.

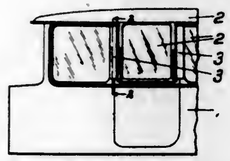
1,379,824. HEDDLE. JACOB KAUFMANN, Philadelphia, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1921. Serial No. 453,519. 6 Claims. (Cl. 139—14.)



1. A heddle made from a thin, flat strip of metal having mortises near the ends thereof for mounting the same on the heddle supporting bars, said mortises being formed by slotting the strip from which the heddle is formed, leaving strips on each side of each mortise, and one of the strips of each mortise being transversely slitted to permit the heddle being mounted on the supporting bars without removing said bars from the frame.

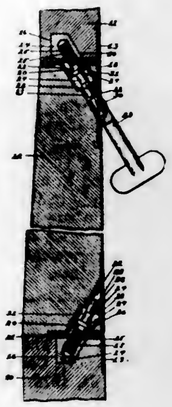
1,379,825. CONVERTIBLE VEHICLE-BODY. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 12, 1917. Serial No. 148,127. 6 Claims. (Cl. 296—45.)

1. In a motor vehicle, the combination of a body, a permanent top, a removable pillar and means for detachably connecting said pillar at top and bottom to said top and said body respectively comprising a slotted plate secured to said body, a plate secured to the lower end of said pillar and provided with a tongue extending at a slight angle to the plane of said plate, and an offset portion connecting said tongue with said plate, said tongue being adapted to enter said slot and engage the inner face of said slotted plate, a bracket secured to said top and provided with a slot, a plate secured to the upper



end of said pillar, a clamping bolt loosely mounted in the upper end of said plate, a pin extending transversely from the inner end of said bolt and adapted to pass through said slot and a nut threaded on the outer end of said bolt and adapted to draw said pillar to position and to hold it there under tension.

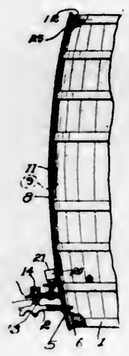
1,379,826. SECURING DEVICE FOR REMOVABLE PILLARS. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 8, 1917. Serial No. 185,119. 7 Claims. (Cl. 296—45.)



1. In a vehicle body provided with a body portion and a top portion, the combination therewith of a demountable pillar, and means for detachably securing one end of said pillar to one of said portions, comprising a plate carried by said portion and provided with a threaded socket, an angle plate carried by said pillar and provided with an opening through one leg thereof, and a bolt rotatably and slidably mounted in said opening and in an inclined passage in said pillar and provided with a threaded end adapted to be screwed into said socket and a collar adapted to limit the movement of said bolt in one direction by engagement with said leg, an opening being provided in the other leg of said angle plate through which to insert a tool to rotate said bolt.

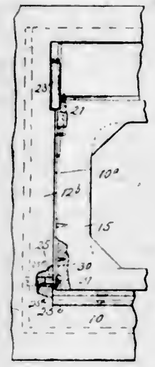
1,379,827. BARREL-SEAL. HENRY W. KOCH, San Francisco, Calif. Filed Mar. 31, 1920. Serial No. 370,084. 4 Claims. (Cl. 70—125.)

1. A lock for barrel faucets comprising a pair of metal straps, each having a hook to pass over the ends of the barrel staves, an extension on one of said straps to embrace the faucet valve stem, an extension on the other



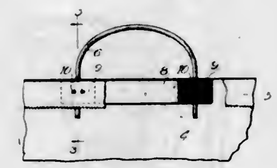
strap to prevent the valve stem from being rotated, and means to lock the two straps.

1,379,828. DROPHEAD-SEWING-MACHINE CABINET. THEODOR KUNDTZ, Lakewood, Ohio, assignor to The Theodor Kundtz Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 19, 1918. Serial No. 258,863. 1 Claim. (Cl. 45—27.)



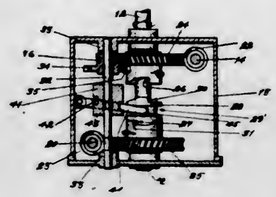
In a drop head sewing machine cabinet, the combination of a table top having a hole through it, a frame secured upon said table around said hole with one side member of the frame overhanging the edge of said hole, a head platform having a flap hinged to its rear edge which flap carries a laterally projecting flange for engagement with the overhanging part of said frame,—said platform and flap being of such size and shape that when alined they substantially fit the hole in said frame, metal straps secured to the side edges of said head platform near the front edge thereof,—each of which straps has a hole, and two alined pintle pins connected with the side members of the frame and projecting inward therefrom into the holes in said straps, one of said pintle pins having an externally screw-threaded outer end and a cylindrical inner end of smaller diameter which projects inward from said frame member, the associated side member of the frame having a hole extending entirely through it and the screw threaded part of the pintle pin having a screw threaded engagement therein when the small diametered cylindrical part thereof projects, as stated, inward from said frame member.

1,379,829. SHOPPING-BAG. WALTER F. LAWRENCE, Middletown, Ohio, assignor to Raymond Bag Company, Middletown, Ohio, a Corporation of Ohio. Filed July 1, 1920. Serial No. 393,383. 3 Claims. (Cl. 229—54.)



2. In combination with a paper bag folded at its upper end to provide an inturned flap, a cardboard strip lying under said flap, said cardboard strip provided at each end thereof with a section of woven fibrous material lying on that side of the cardboard strip next adjacent said flap, a flexible handle having portions lying outside of and against the bag, and staples embracing said portions of the handle and passing through the paper of the bag and through said cardboard strip and the woven fibrous material aforesaid.

1,379,830. OPERATING MEANS FOR WASHING APPARATUS. ERNEST E. LICKISS, Oakland, Calif., assignor of one-third to Robert King and one-third to John B. Spangler, Oakland, Calif. Original application filed Jan. 5, 1920, Serial No. 349,489. Divided and this application filed Sept. 7, 1920. Serial No. 408,530. 5 Claims. (Cl. 74—50.)



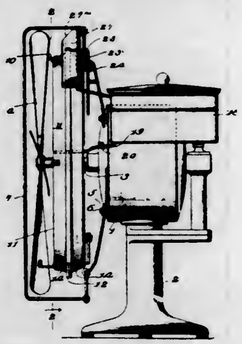
1. A driving device for washing apparatus including, a shaft, a pair of gears loosely mounted on said shaft in spaced relation, means for rotating said gears in opposite directions, means associated with said shaft between said gears to alternately clutch said gears in engagement with said shaft to cause said shaft to be rotated alternately in opposite directions, a cam associated with said clutch, means for operating the same, a star wheel associated with said cam, and a pin associated with one of said gears for operating said star wheel to cause a rotation of said cam to operate said clutch.

3. A driving device for washing apparatus including a driven shaft, a pair of worm wheels loosely mounted thereon, a pair of driving worms, one for each worm wheel, said worms being in mesh with opposite sides of said worm wheels, means for driving the worms continuously in one direction, a clutch splined to the driven shaft between the worm wheels for engaging the same one at a time, and means for automatically moving the clutch into alternate engagement with the respective worm wheels.

1,379,831. FLUID-CONDITIONING APPARATUS. WILLIAM A. LINDAUER, El Paso, Tex. Filed June 28, 1918. Serial No. 242,358. 3 Claims. (Cl. 261—90.)

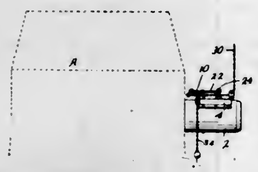
2. A fan and means for rotating the same, a perforated annulus mounted to rotate and in position to be impinged

by the air current of the fan, means for discharging a liquid on the interior of said annulus, a second perforated



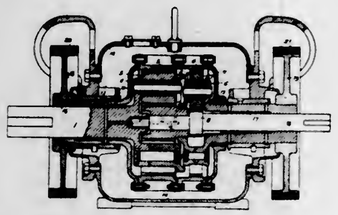
annulus exterior of the first and rotatively mounted and provided with means controlling the discharge through the perforations.

1,379,832. DAMPER-REGULATOR. LINN W. MILLIS, Kansas City, Mo. Filed Mar. 10, 1921. Serial No. 451,262. 5 Claims. (Cl. 126—286.)



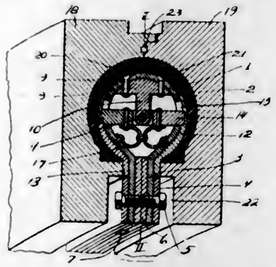
1. In a device of the character described, a draft-pipe having an opening for the admission of cold air, a smoke damper operably mounted in said draft-pipe, a check-valve to control the admission of cold air to the draft-pipe through the opening, and a connection between the smoke damper and said check valve having lost motion, whereby the former may be closed, or practically closed, before the latter is opened.

1,379,833. DRIVING AND CONTROL MECHANISM, PARTICULARLY FOR PLANING-MACHINES. FREDERICK NEWTON, Derby, England. Filed Nov. 16, 1920. Serial No. 424,543. 3 Claims. (Cl. 74—34.)



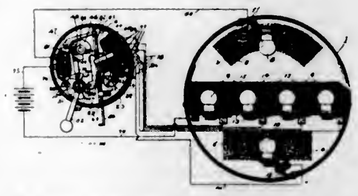
1. A reversing reduction gearing consisting of two epicyclic gears each comprising a sun pinion, a set of planet pinions, and an internally toothed ring, said internally toothed rings being mechanically united, means connecting the planet pinion carrier of one gear with the sun wheel of the other, and means for braking the internally toothed rings or said connected planet pinion carrier and sun wheel.

1,379,834. PNEUMATIC-TIRE CORE. FREDERICK PAULSEN, Kansas City, Mo. Filed Nov. 15, 1920. Serial No. 424,105. 14 Claims. (Cl. 18—45.)



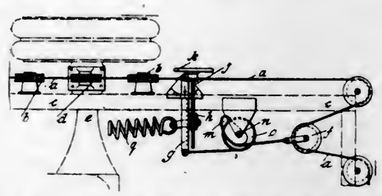
1. A circular tire core comprising a body of rounded form in cross section and segmental plates of tapering form, fitting against the outer surface of said body and slidable radially thereof.

1,379,835. DIRECTION-SIGNAL FOR MOTOR-VEHICLES. JOHN PFEIFER, Springfield, Ohio, assignor of one-third to Charles L. Friermood, Springfield, Ohio. Filed Aug. 9, 1918. Serial No. 249,165. 19 Claims. (Cl. 177—327.)



4. In a device of the character described, a plurality of lights, electric circuits for the same, a power operated switch mechanism for making and breaking said circuits, and a hand operated device for controlling said switch mechanism, the construction and arrangement of said mechanism being such that when said hand operated device is thrown in one direction the switch mechanism will control the circuits to illuminate the lights successively in one direction and then simultaneously extinguish said lights and when said hand operated device is thrown in the opposite direction said switch mechanism will control said circuits to illuminate said lights successively in the opposite direction and then simultaneously extinguish the same, and means incorporated in said switch mechanism whereby when the same has been restored to neutral position the circuits will be broken.

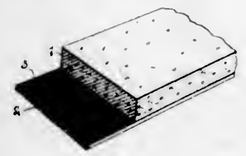
1,379,836. MEANS OF SUSPENSION OF VEHICLES. GEORGE JOHN RACKHAM, Putney, London, England. Filed July 27, 1920. Serial No. 399,368. 3 Claims. (Cl. 280—124.)



1. A vehicle combined with pulleys on the axles, pulleys on the frame of the vehicle, a suspension rope passing over

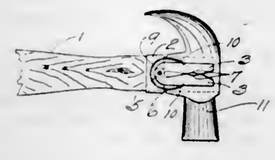
the pulleys on the axles and under the pulleys on the frame, a spring attached to the frame, a cam pivoted to the frame, and connections between the suspension rope and the cam and between the spring and the cam.

1,379,837. CELLULOID-COATED CEMENT BODY. FREDERICK C. RUPPEL, Grand Rapids, Mich., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Oct. 18, 1920. Serial No. 417,821. 3 Claims. (Cl. 72—26.)



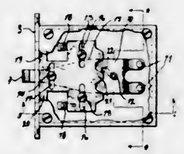
1. A composite body consisting of a sheet of celluloid, a layer of fibrous fabric attached to the celluloid, and a layer of concrete attached to the fibrous fabric.

1,379,838. NAIL-HOLDER FOR HAMMERS. ARVID SALOMAA, Duluth, Minn. Filed July 26, 1920. Serial No. 399,148. 1 Claim. (Cl. 145—30.)



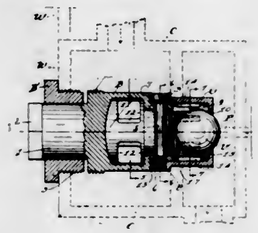
A nail holding attachment for hammers, comprising two jaws pivotally connected at their inner ends and having complementary nail engaging notches in their outer ends; a U-shaped spring mounted over said jaws and adapted to hold them closed; laterally extended grips adapted to releasably engage the hammer handle.

1,379,839. DOOR-LOCK. ALOJZY SKÓRA, Passaic, N. J. Filed Oct. 2, 1920. Serial No. 414,312. 2 Claims. (Cl. 70—31.)



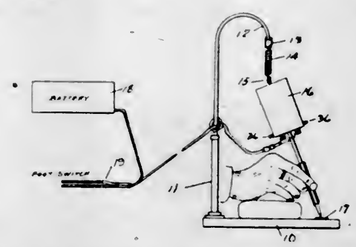
1. A device of the class described comprising a casing adapted to be secured to a door, a member adapted to be secured to a wall adjacent said door, shackles projecting from said member, a bolt movable parallel to the walls of said frame, recesses in said casing, said shackles being adapted to enter said recesses, tongues on said bolt adapted to engage said shackles within said casing, an additional recess in said casing, a recess in said member, a resilient member secured within said casing and having a head on the end thereof protruding through said additional recess and adapted to engage said recess in said first-named member.

1,379,840. VALVE FOR STEAM AND WATER SYSTEMS. OLIVER W. SMITH, Los Angeles, Calif. Filed June 1, 1920. Serial No. 386,383. 5 Claims. (Cl. 251—121.)



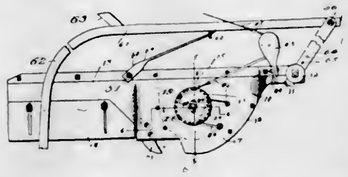
1. A valve having a body provided with a chamber and a plurality of peripheral apertures for receiving a fluid, a valve portion detachably held thereon at one end and having a chamber communicating with that in said body, and a valve in said valve portion for regulating the discharge of said fluid.

1,379,841. PORTABLE ELECTRIC ENGRAVING INSTRUMENT. WALTER E. STENNING, Providence, R. I. Filed July 31, 1919. Serial No. 314,505. 1 Claim. (Cl. 78—13.1.)



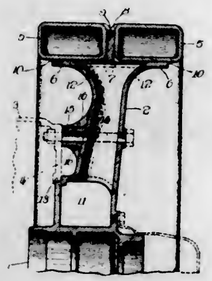
In a portable electric engraving apparatus the combination of a base, a supporting standard on said base, a marking instrument comprising a casing and a reciprocatory pencil therein, said casing being yieldably supported from said standard, an electric magnet carried at one end thereof for imparting reciprocatory movement to said pencil, an electric circuit, and a switch interposed in said circuit for controlling the flow of current to said magnet.

1,379,842. COMBINED PLANTER AND FENDER FOR CULTIVATORS. RICHARD F. STIEPER, West Side, Iowa. Filed Mar. 3, 1919. Serial No. 280,407. 9 Claims. (Cl. 221—137.)



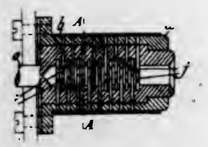
1. In a seed dispensing mechanism, the combination with a hopper made up of side plates and a U-shaped wall between them, said wall having a seed outlet in its bottom; of a disk pivotally mounted within said hopper and having cells opening axially and radially, a block fixed in the hopper alongside the outlet and closing the lateral opening of a cell when the same stands opposite to the block with its radial opening registering with said outlet, and means for moving the disk as described.

1,379,843. HOLLOW-ROLLED-RIM WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,352. 7 Claims. (Cl. 301—65.)



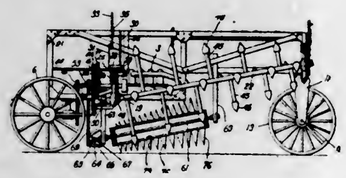
1. In a metal wheel, the combination with a spider, of two tubular, rigidly connected rim rings of circumferentially continuous metal, rectangular in cross section, lying side by side, encircling the spokes, and rigidly connected thereto.

1,379,844. LOCK. ANTOINE ANDREANI, Geneva, Switzerland. Filed June 28, 1920. Serial No. 392,272. 1 Claim. (Cl. 70—46.)



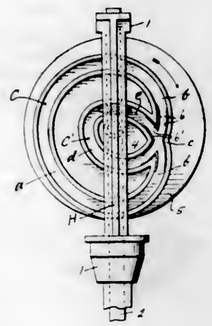
In a lock the combination of a shell, a barrel rotatable in said shell and having a key-way, two parallel rows of sliders mounted in said barrel at opposite sides of said key-way, said sliders having oppositely directed hooked members extending into said key-way, springs thrusting said sliders in opposite directions into engagement with said shell, and a push-key having two parallel side plates adapted to engage said hooked members, and an undulating web between said side-plates adapted to push said members in opposite directions and retract the sliders from engagement with the shell.

1,379,845. EXCAVATING AND GRADING MACHINE. ERVIN R. BARNES, Spokane, Wash. Filed Oct. 9, 1918. Serial No. 257,468. 5 Claims. (Cl. 37—11.)



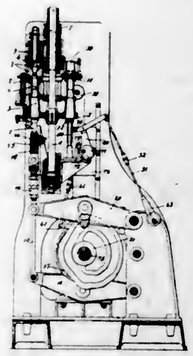
1. In an excavating and grading machine, the combination, of a supporting structure, an excavating structure supported at one side of said supporting structure and including an axle, a plurality of arms radiating from said axle, and pick heads mounted upon the outer ends of said arms.

1,379,846. POWER-TRANSMITTING MEANS. MADISON H. BENSON, Austin, Tex. Filed Aug. 23, 1920. Serial No. 405,480. 2 Claims. (Cl. 74—1.)



2. A device of the character described comprising a member supported for reciprocatory movement, a rotary member, said rotary member being provided with a main cam track, a supplementary cam track arranged within the field defined by the main cam track, said tracks being in communication one with the other, a part carried by the reciprocating member and traveling within the cam tracks, and a guide shoe carried by the reciprocating member and traveling in the cam tracks, the side walls of the cam tracks at their junction being provided with inwardly disposed ribs, the guide shoe traveling between said ribs.

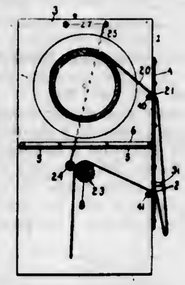
1,379,847. MACHINE FOR MANUFACTURING SUGAR LOAVES MOLDED BY COMPRESSION. ANDRÉ BOIVIN, Paris, France. Filed Nov. 17, 1919. Serial No 338,754. 4 Claims. (Cl. 25—68.)



1. In a machine for manufacturing by compression sugar loaves or compressing any other material capable of being molded, the combination of a mold of cylindrical truncated cone shape, at least one hollow cylindrical truncated cone shaped compressing piston adapted to slide in the interior of the said mold and two solid compressing pistons adapted to slide respectively in this piston and in the mold.

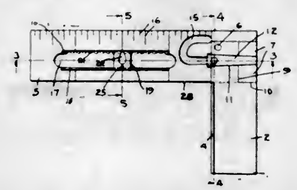
1,379,848. TOWEL-HOLDER. JOSEPH N. BORROUGHS, Oakland, Calif. Filed July 9, 1918. Serial No. 244,114. 7 Claims. (Cl. 45—32.)

1. A towel rack including a frame, a reel journaled in said frame, take-up means for the used part of the towel, and gearing between said reel and take-up means whereby said take-up means is operated faster than said reel is



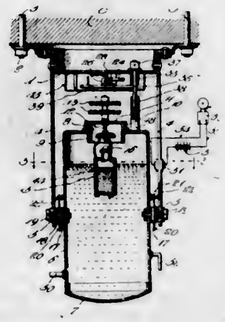
unwound, said take-up means being constructed and arranged to permit the towel to slip therein.

1,379,849. TRY-SQUARE. JESSE THOMAS CAMPBELL, Elbridge, Tenn. Filed May 4, 1920. Serial No. 378,918. 1 Claim. (Cl. 33—116.)



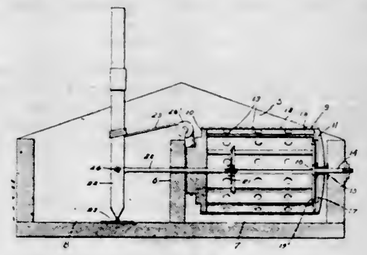
A device of the class described comprising a blade; a handle pivoted to the blade; a latch slidable in the handle; and a keeper on the blade wherewith the latch engages to hold the handle at an angle to the blade, the latch having a projection, the blade having a cam slot wherein the projection is received, the projection coöperating with the cam slot to move the latch transversely of the blade when the handle is folded with respect to the blade.

1,379,850. FIRE-EXTINGUISHER. PHILIP J. CANOVA, Jr., and CHARLES E. EGAN, Charleston, W. Va. Filed Dec. 17, 1919. Serial No. 345,465. 8 Claims. (Cl. 169—27.)



3. A device of the class described comprising a base having means for attachment to a support, an arm depending from said base, a tank pivoted to said arm and being urged to inverted position, said tank containing fire extinguishing means inert when in upright position and active when in inverted position, a thermostatically controlled latch mechanism mounted upon said base and including a turnably mounted shaft provided with a flattened portion, and a socket carried by said tank and receiving the flattened portion of said shaft therein, one wall of said socket being provided with a cutaway portion to permit the flattened portion of said shaft to become laterally disengaged therefrom when said shaft is actuated by said mechanism to dispose its flat portion in alinement with said cutaway portion of said socket.

1,379,851. WASHING-MACHINE. HOUSTON M. CARROLL, Sr., San Antonio, Tex. Filed Jan. 26, 1921. Serial No. 440,079. 3 Claims. (Cl. 68—18.)



1. In a washing machine, a body portion, a partitioning member within the body portion dividing the same into a tank and a lever housing, a rotatable drum supported within the tank, said drum having a plurality of openings formed in the wall thereof, a lever pivotally supported within the lever housing, a plunger operating in the drum and having connection with the lever, means having connection with the lever and operating over the drum for rotating the drum, and said plunger having openings formed therein.

1,379,852. TUBE-CLEANER. CHARLES EDWARD CHESTNUT and WILLIAM ALBERT HENDERSON, Calgary, Alberta, Canada. Filed Sept. 27, 1920. Serial No. 413,224. 1 Claim. (Cl. 83—64.)

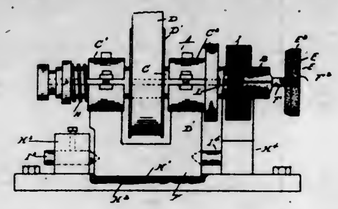


A tube cleaner, consisting of a pair of spring members with cutter portions at their outer ends, said cutter portions having overlapping parts forming substantially sections of a worm; additional spring members bearing against said cutter portions at the outer edges thereof, and a handle or holder to which the inner ends of all the spring members are secured, said additional spring members having scraper edges.

1,379,853. METHOD OF FORMING CUTTING-TOOLS. STUART A. COGSDILL, Detroit, Mich. Filed Feb. 20, 1919. Serial No. 278,271. 4 Claims. (Cl. 51—278.)

1. A process of forming combined drills and counter sinks having adjacent cylindrical and beveled portions,

consisting in rotating such a tool, grinding the cylindrical and beveled surfaces of the tool simultaneously, and effecting a radial relief of both of said surfaces while being ground.



1,379,854. LIQUID-TIGHT JOINT FOR PREVENTING LEAKAGE BETWEEN THE TERMINAL RODS AND COVERS OF ELECTRIC ACCUMULATORS. ALFRED DININ, Nanterre, France. Filed Sept. 4, 1918. Serial No. 252,669. 1 Claim. (Cl. 204—29.)



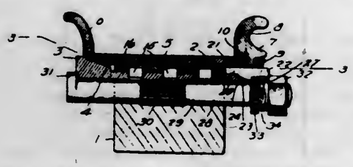
A liquid tight joint for preventing leakage between the terminal rods and covers of electric accumulators consisting of a celluloid sleeve having an internal diameter which is less than the diameter of the terminal rod and is adapted to be expanded by heat and to be passed over the terminal rod in a heated condition so that in cooling it shall shrink tightly on the rod, and a celluloid collar adhesively attached to the said sleeve and to the cover to complete the closure of the joint.

1,379,855. CREAM DEPILATORY. JOSEPH DONNER, Chicago, Ill. Continuation of application Serial No. 378,644, filed May 3, 1920. This application filed Mar. 3, 1921. Serial No. 449,530. 17 Claims. (Cl. 167—9.)

5. A composition of matter for the purpose specified, comprising a depilating agent carried in a base of colloids, in a mixture of creamy consistency.

11. A depilatory comprising an alkaline sulfid solution, and a substance capable of forming a gel therewith.

1,379,856. WHEEL-RIM-FASTENING DEVICE. FRED F. ENTER, Cuyahoga Falls, Ohio, assignor of one-half to William Martin, Cleveland, Ohio. Filed May 3, 1920. Serial No. 378,524. 2 Claims. (Cl. 301—17.)

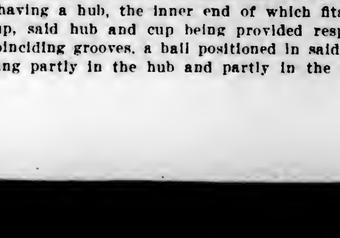


1. In a wheel rim fastening device, the combination with a wheel felly, a felly band mounted thereon, a rim in surrounding relation to the felly band, the inner side of the felly band having a beveled abutment flange, the adjacent faces of the felly band and the rim having spaced wedge plates, a wedge engaging between said wedge plates for forcing the rim toward the beveled flange thereby securing the rim in position, means for adjusting and holding the wedge in place, and means for causing an outward radial action of one end of the wedge to prevent lateral movement of the rim toward the outer side of the wheel.

1,379,857. PROCESS FOR TREATING WICKS. JOHN FEENEY, Lodi, N. J. Filed Dec. 18, 1920. Serial No. 431,799. 1 Claim. (Cl. 67—69.)

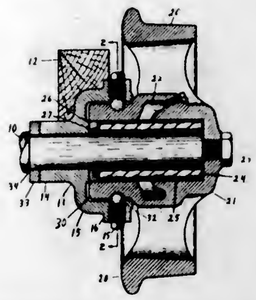
The herein described method of treating lamp wicks which consists of first preparing a solution of lime water to a strength of one degree on a hydrometric scale, then immersing the wicks in the solution, then boiling the wicks and solution for three hours or until the solution has reached the strength of one and one-half degrees on the hydrometric scale, and finally drying the wicks.

1,379,858. TUBE-BENDING APPARATUS. JOHN F. GAIL, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Dec. 13, 1916, Serial No. 136,599. Renewed Nov. 20, 1920. Serial No. 425,561. 10 Claims. (Cl. 153—46.)



1. In tube-bending apparatus, the combination of a stationary former, a swiping block fitting the former and having a face fitting one side of the unbent tube, means for holding one end of the tube relative to the former, an outer support engageable with the other side of said tube, means operable by power for engaging the support with the tube, and means for moving said support and said swiping block to bend the tube around the former.

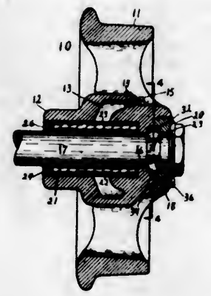
1,379,859. WHEEL CONSTRUCTION. AIME GENTON, Louisville, Ky., assignor of one-third to Robert L. Schmitt, Louisville, Ky. Filed Sept. 29, 1919. Serial No. 327,139. 1 Claim. (Cl. 301—111.)



The combination with a frame, of a bearing secured thereto comprising a sleeve having a cylindrical bore and a cup shaped extension thereon, an axle fitting in the sleeve and projecting beyond the same and having an abutting shoulder adjacent the inner end of the sleeve, a wheel having a hub, the inner end of which fits within said cup, said hub and cup being provided respectively with coinciding grooves, a ball positioned in said grooves and lying partly in the hub and partly in the cup and

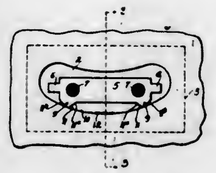
retaining the wheel against withdrawal, said hub being closed at its outer end, a roller bearing held within the hub and surrounding said axle, and a closure for the inner end of the hub to retain the bearing in place, said closure bearing against said sleeve whereby to hold the closure against accidental displacement.

1,379,860. LOOSE WHEEL-MOUNT. AIME GENTON, Louisville, Ky., assignor of one-third to Robert L. Schmitt, Louisville, Ky. Filed Sept. 29, 1919. Serial No. 327,140. 1 Claim. (Cl. 301—111.)



In a loose wheel mount, an axle having a circumferential groove a spaced distance from an end thereof, a wheel having a hub, said hub having a central bore adapted to receive said axle, the hub being counterbored forming a shoulder, a cap adapted to fit in said counterbore and seat on said shoulder, said cap having a bore to receive the end of the axle, the abutting edges of the cap and the shoulder respectively being provided with grooves which register with the groove in the axle and form a raceway, and a ball positioned in said raceway, said counterbore being of sufficient diameter to permit insertion of said ball laterally.

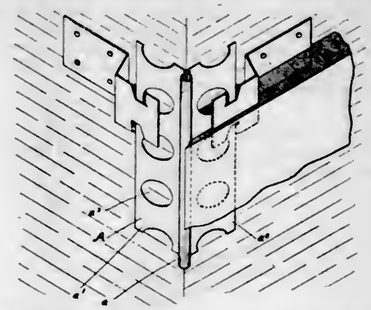
1,379,861. ADVERTISING DEVICE. PAUL E. GOLDMANN, Pittsburgh, Pa. Filed May 28, 1920. Serial No. 385,038. 5 Claims. (Cl. 40—138.)



1. In a device of the character described, a flexible member capable of being bent into rounded form for reception by a concaved rack, a movable member, and means actuated by movement of said flexible member for shifting the movable member, said means and the movable member being positioned within the flexible member.

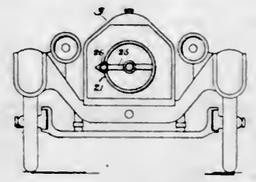
1,379,862. METAL BEAD FOR PLASTICS. WILLIAM M. GOLDSMITH, Cincinnati, Ohio. Filed Mar. 6, 1919. Serial No. 281,058. 3 Claims. (Cl. 72—121.)

1. As a new article of manufacture a spacer clip for beads comprising parallel plates and a spacer member connecting the plates and holding them in different planes,



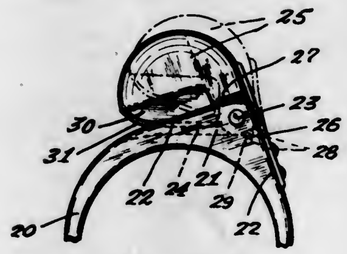
one of said plates having lugs projecting therefrom and adapted to engage a bead.

1,379,863. DIRECTION-INDICATOR FOR MOTOR-CARS. HARRY H. GRAY, Kansas City, Mo. Filed Nov. 18, 1916, Serial No. 132,212. Renewed Apr. 7, 1921. Serial No. 459,337. 2 Claims. (Cl. 116—47.)



1. In a direction indicator for motor cars, a circular holder having a cross-bar, a circular guide frame concentrically within the holder and also provided with a cross-bar, a shaft journaled in the said cross-bars, a finger on said shaft, yielding means to prevent accidental movement of the finger by engagement with the circular guide, a lamp secured to said shaft, a lamp carried by the finger for movement thereby in a circular direction, and means for imparting rotation to said shaft; said lamps being of contrasting colors.

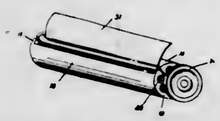
1,379,864. TWINE-CUTTER. ALTON N. GREGORY, Seattle, Wash. Filed Aug. 26, 1920. Serial No. 406,193. 1 Claim. (Cl. 30—14.)



A twine cutter comprising a ring; an integral triangular peripheral extension formed on said ring, said peripheral extension having a longitudinal groove formed therein; a knife holder; a lug on said holder adapted to pivotally connect said holder to said peripheral extension; shoulders on said lug adapted to contact with said exten-

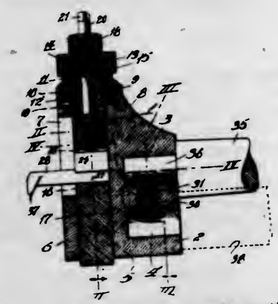
sion to limit the swinging movement of said holder in a downward direction; a stop on said lug adapted to contact with the bottom of said longitudinal groove to limit the swinging movement of said holder in an upward direction; a knife medially disposed in said holder having its cutting edge normally disposed in said longitudinal groove; and resilient means adapted to retain said knife holder in a normally retracted position.

1,379,865. CIGARETTE-ROLLING DEVICE. ALBERT C. H. HOLDBROOK, Providence, R. I. Filed May 5, 1920. Serial No. 379,167. 3 Claims. (Cl. 131—5.)



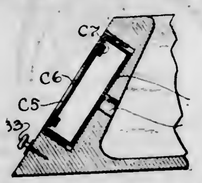
2. A cigarette-rolling device comprising a divided frame having its halves hinged together, a plurality of elongated rolls arranged in a circle having their peripheries in close proximity to each other and having bearings in said frame halves, a gear on each roll, a main central hand-operated gear for engaging the gears on all of said rolls to rotate them in unison, said frame halves being adapted to be swung apart to receive the tobacco between the sets of rolls and then close, and means for locking the frame-halves in closed position.

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1. A tool holder comprising a body portion, a tool adjustably carried by said body portion, means provided on said body portion whereby a revoluble element can be secured to said body portion, and other means whereby said body portion can be secured to a stationarily held element and clamping means carried by said body portion coöperable with either one of said elements.

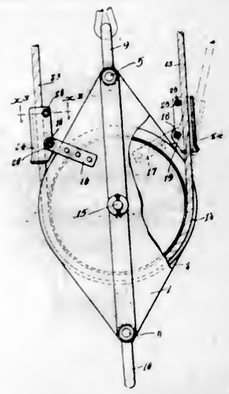
1,379,867. DISPLAY-CABINET. BURTON L. JOHNSON, Knoxville, Tenn. Filed Mar. 11, 1919. Serial No. 281,973. 4 Claims. (Cl. 211—9.)



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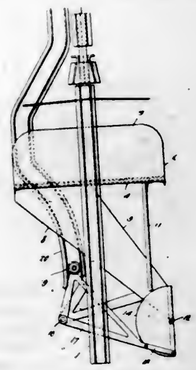
2. In a structure of the nature described, a drawer having a fixed front wall in the outer face of which is a chamber, a container fitted into said chamber and comprising a body and a lid one of which has a window.

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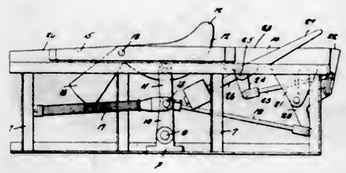
1. A cable guard combining a tackle-block having a frame and a cable sheave, a pivot rod carried by the frame and extended across the face of the sheave, a cable shoe loosely pivoted on said rod and adapted to embrace the sides and the outer surface of a cable rove around the sheave, and means carried by the shoe adapted to engage the inner surface of the cable to maintain the shoe in position.

1,379,869. MINE-SKIP. DANIEL F. LEPLEY, Connellsville, Pa. Filed July 12, 1920. Serial No. 395,589. 5 Claims. (Cl. 214—95.)



1. A device of the class described including a platform having a hinged floor section, a load holding skip portion below the platform, said floor section constituting a cover for the inlet end of the skip portion, and a combined closure and delivering chute at the discharge end of said skip portion.

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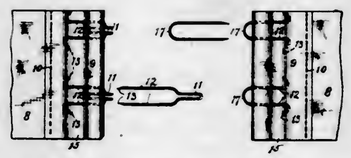
1. The combination with separate oppositely movable hoist cages, of a caging section adjacent the path of each cage and including a track having one end portion level and the remaining portion which is nearest the path of the cage being inclined downwardly toward the delivery end thereof, stop dogs on said casing section for holding the front wheels of a car elevated above the horizontal and overhanging the inclined rails of the track, said dogs being movable to drop the front wheels of the car onto the inclined track and thereby impart an abrupt initial impulse to the forward movement of the car from the caging section and onto the cage platform.

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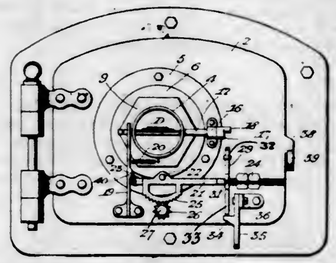
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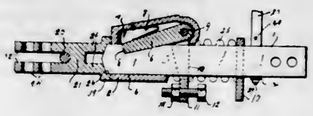
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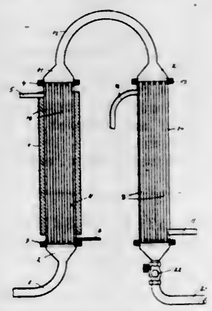
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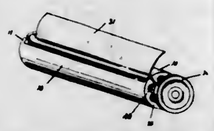
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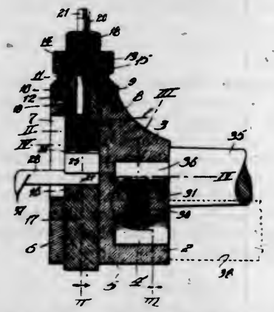
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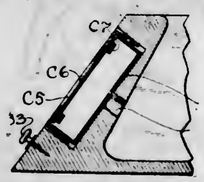
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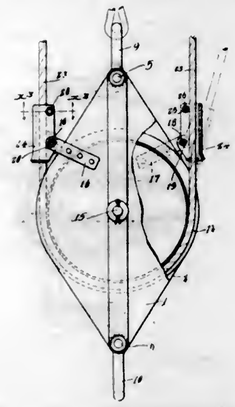
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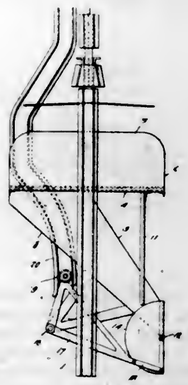
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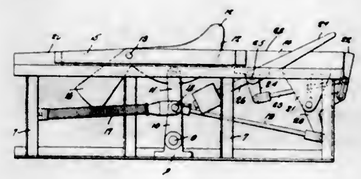
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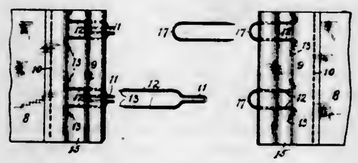
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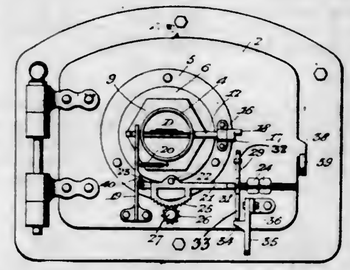
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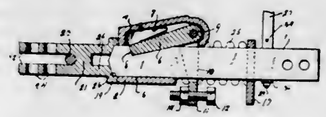
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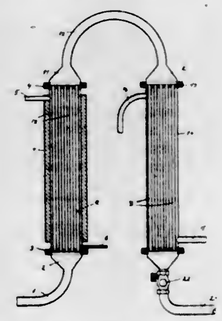
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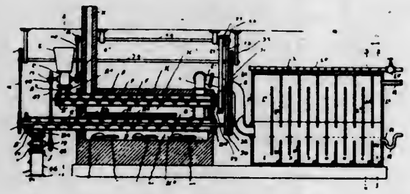
1,379,875. PROCESS FOR STERILIZATION OR PASTEURIZATION OF LIQUIDS. ANDRÉ MÜLERTZ, Copenhagen, Denmark. Filed Aug. 23, 1919. Serial No. 319,477. 2 Claims. (Cl. 99—15.)



2. The process of sterilizing liquids which consists in subjecting the liquid to a uniformly increasing tempera-

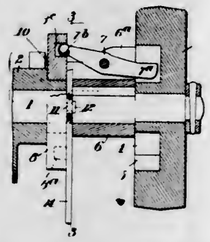
ture while slowly passing vertically continuously in one direction at a pressure exceeding the pressure of saturated vapors of the treated liquid at the initial temperature of the heating medium, and then subjecting it to a uniformly decreasing temperature until cooled down to the temperature of the cooling medium while passing continuously in one direction under the same pressure.

1,379,876. APPARATUS FOR DISTILLATION. CARL A. NOTTINGHAM and CARL TUHEY, Muncie, Ind., assignors, by mesne assignments, to American Nottingham Process Company, a Corporation of Kentucky. Filed May 16, 1919. Serial No. 297,502. 4 Claims. (Cl. 203—6.)



1. In an apparatus of the class described, in combination, a plurality of superposed retorts, inlet and discharge means at alternate ends of said retorts, means in the first inlet and in the last discharge means to pass material while preventing the passage of gaseous currents, the intermediate discharge and inlet means providing communication between retorts, means to subject said retorts throughout the entire extent of their heated portions to temperatures gradually increasing from a point adjacent the first inlet to a point adjacent the final discharge means, conveying means adapted to convey and agitate material from the inlet to the discharge means of each retort and an outlet for the distilled product.

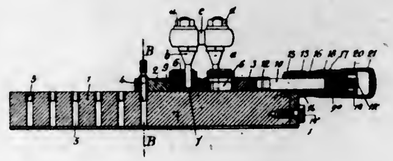
1,379,877. CLUTCH. EDWIN ROLKER, Baltimore, Md. Filed Nov. 3, 1915, Serial No. 59,340. Renewed Oct. 30, 1920. Serial No. 420,811. 6 Claims. (Cl. 192—28.)



1. In a clutch, driving and driven clutch members, a cam member adjustable independently of said member about their common axis and having an annular guideway provided with a cam, a latch on said driven member engaging said guideway and normally resting upon the cam portion thereof and adapted to be moved by said guideway into engagement with the driving member when the cam member is moved from normal position.

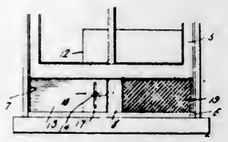
1,379,878. APPARATUS FOR SETTING GAGES. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, Seine, France. Original application filed Dec. 28, 1917, Serial No. 209,331. Divided and this application filed Feb. 21, 1919. Serial No. 278,439. 2 Claims. (Cl. 33—165.)

1. An apparatus for adjusting the dimensions of space gages comprising in combination a table or base, two sliding pieces movable upon said table each of them having a hole, a plug provided with a hole eccentric to its axis and mounted in each of said holes in the sliding pieces, the said holes of the two plugs being adapted to receive the



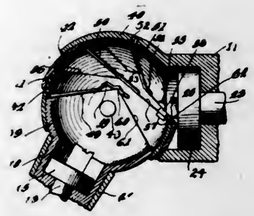
ends of the contact rods of the space gage, means for holding one of said sliding pieces in a fixed position on the table, and a micrometer screw mounted on the table and adapted to displace the other sliding piece along said table, substantially as described and for the purpose set forth.

1,379,879. WINDOW-REFRIGERATOR. VICTOR DE SCHEPPER, New York, N. Y. Filed Feb. 24, 1919. Serial No. 278,846. 1 Claim. (Cl. 45—104.)



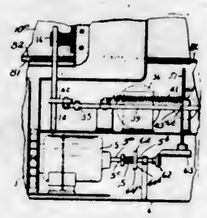
A provision safe for attachment to a window, comprising a box the interior of which is accessible from one side, and the opposite side wall of the box having an air-inlet opening the height of which is less than that of the box, and a vertically adjustable retaining slide carried by the last-mentioned side wall on the outside thereof and adjustable to project laterally from one end of the box, the height of the slide being also less than that of the box and corresponding to the height of the air-inlet opening.

1,379,880. DENTAL HANDPIECE. CHARLES C. SEABORN, Portland, Oreg. Filed Jul, 15, 1920. Serial No. 396,386. 10 Claims. (Cl. 32—11.)



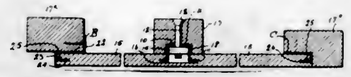
3. A hand piece for dental engines comprising a handle section and a tool section, means hingedly connecting the sections together so as to permit the same to swing in various angles in relation to each other including a plurality of leaves, means automatically locking the leaves to hold the sections in their various adjusted positions, rigid stop members arranged to limit the movement of the leaves in relation to each other, a drive shaft carried by the handle section, a driven shaft carried by the tool section, and means operatively connecting these sections together.

1,379,881. ARC STRIKING AND EXTINGUISHING APPARATUS. ELMER A. SPERRY, Brooklyn, N. Y. Filed July 22, 1916. Serial No. 110,753. 16 Claims. (Cl. 176—51.)



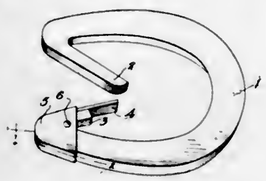
1. The combination with arc light electrodes, of a light shield and a movable arc striking member therefor and means responsive to changes in the energizing current for operating the shield and member.

1,379,882. PANEL-CLAMP. WILLIAM A. SWARTZ, York, Pa. Filed May 28, 1919. Serial No. 300,288. 3 Claims. (Cl. 20—15.)



1. The combination with an upright and panels disposed thereagainst, the panels being provided in one face with a T-shaped slot and the upright with a recess, of means for holding the panel to the upright comprising a clamp bent to form a channel adapted to be disposed in the recess of the upright and having laterally disposed flanges, extending into the T-shaped slot of the panel, the bottom of said channel being perforated, and the post being correspondingly perforated, a nut disposed in and fitting the channel whereby the nut is held from turning, and a screw passing through the perforation of the upright and channel and engaging said nut.

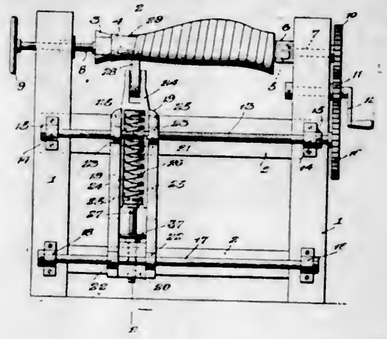
1,379,883. QUOIT. THOMAS H. TABOR, Ellijay, Ga. Filed Aug. 23, 1920. Serial No. 405,388. 5 Claims. (Cl. 46—65.)



3. In a device of the class described the combination of a horseshoe shaped body, arms pivotally mounted adjacent the terminals of said body, and means provided for holding said arms in a position so as to close the entrance to said body.

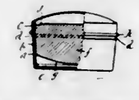
1,379,884. METHOD AND APPARATUS FOR MAKING ARTIFICIAL LIMBS OF FIBER. CHARLES W. THOMAS, St. Louis, Mo. Filed Sept. 8, 1920. Serial No. 408,884. 9 Claims. (Cl. 18—19.)

1. The method of making hollow artificial limbs of sheet fiber, consisting in shaping the sheet fiber to the required preliminary pattern, soaking the fiber until it becomes plastic, placing the plastic sheet fiber around a form, deforming the plastic fiber to the contour of the form by rolling pressure progressively applied to the material, and retaining the deformed fiber on the form until set by



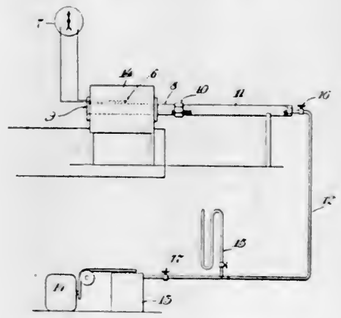
a band wound without deforming tension on the fiber in advance of the rolling pressure to be conformed thereby to the contour of the deformed material.

1,379,885. SOAP-BOX FOR SHAVING PURPOSES. WILLIAM JOSEPH TONER and JAMES JOHN TONER, South Kensington, England. Filed Aug. 10, 1920. Serial No. 402,655. 1 Claim. (Cl. 45—136.)



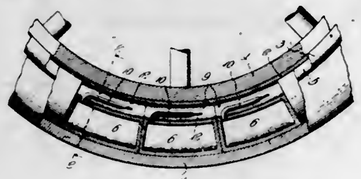
A soap box for shaving purposes having a tapered ring with a bead at the top and a beveled edge at the bottom, and two projections at the top, a tapered cup and a cover with two bayonet slots to engage with the projections at the top of the tapered ring, the said ring to support a special shaped soap tablet, substantially as described and shown on the accompanying drawings.

1,379,886. PROCESS OF REDUCING MAGNESIUM COMPOUNDS. LEONARD WALDO, Plainfield, N. J. Filed July 31, 1920. Serial No. 400,554. 3 Claims. (Cl. 75—183.)



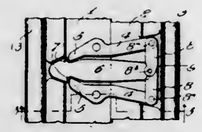
1. A process of reducing a magnesium compound to metallic magnesium, which comprises finely dividing said compound; finely dividing metallic aluminum; intimately mixing the finely divided materials; closely compacting the mixture under pressure, and subjecting the consolidated materials to the action of a high degree of heat *in vacuo*, with the formation and distillation over of the metal magnesium.

1,379,887. PNEUMATIC TIRE. HARRY S. WILLIAMS, San Antonio, Tex., assignor of one-half to Otto Keller, San Antonio, Tex. Filed Oct. 10, 1919. Serial No. 329,846. 4 Claims. (Cl. 152—22.)



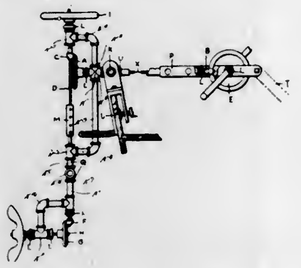
1. A device of the class described comprising a hollow arcuate tire section of a cross sectional shape to conform to the interior of a tire casing and provided on its rim side with a longitudinally extending channel dividing said rim side into a pair of rim engaging portions, the latter being disposed close together before said section is inflated and being separated by the pressure of the fluid in said section when the same is inflated.

1,379,888. SECTIONAL RIM. HARRY S. WILLIAMS, San Antonio, Tex., assignor of one-half to Otto Keller, San Antonio, Tex. Filed Jan. 19, 1920. Serial No. 352,472. 9 Claims. (Cl. 301—35.)



1. A rim comprising two circular abutting sections, coacting locking members carried by said sections, the locking members carried by one section being movable in and out of engagement with those carried by the other section, and means for actuating said movable members and holding them in interlocked position, said means being connected to and carried entirely by said movable members.

1,379,889. PORTABLE PROPELLING DEVICE. WILLIAM COVINGTON WILLIAMS, New Orleans, La. Filed May 25, 1918. Serial No. 236,662. 3 Claims. (Cl. 115—24.)



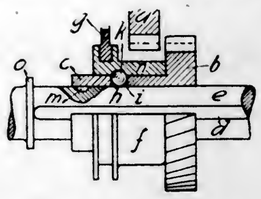
1. A portable propelling device of the class described, including an attaching bracket, a substantially U-shaped frame having its intermediate portion pivotally attached to said bracket, a propeller supporting bracket including relatively horizontal and vertical tubular portions, said vertical portion being attached to one end of the U-shaped frame, a fly-wheel carrying shaft journaled in the outer ends of the arms of the U-shaped frame and extending through the vertical portion of the propeller supporting bracket, and a propeller carrying shaft journaled in the horizontal tubular portion of the propeller supporting bracket and operatively connected with the fly-wheel carrying shaft.

1,379,890. FOUNTAIN-PEN. PAUL E. WIRT, Bloomsburg, Pa. Filed June 30, 1920. Serial No. 393,134. 7 Claims. (Cl. 120—46.)



7. In a fountain pen, the casing having a member provided with a guide, an ink sack, a press-bar, an operating device for the press-bar, and a folded spring having a relatively loose guiding engagement with said guide and also having one member thereof rigidly connected with the press-bar while its other member bears against the casing part.

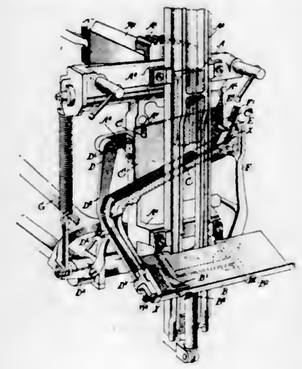
1,379,891. APPARATUS FOR OPERATING THE SLIDING WHEELS OF CHANGE-SPEED GEARS. ALBERT AICHELE, Baden, Switzerland. Filed Apr. 26, 1920. Serial No. 376,569. 5 Claims. (Cl. 74—58.)



5. In an apparatus for operating the sliding wheel of a change-speed gear with oblique teeth, the combination with said sliding wheel, a shaft along which said sliding wheel is adapted to slide, and a non-rotatable sleeve for shifting said sliding wheel along said shaft, of an extended hub on said sliding wheel located concentrically around said shaft between the latter and said non-rotatable sleeve, one or more annular grooves in the inner surface of said non-rotatable sleeve, a corresponding number of recesses in the periphery of said shaft, a corresponding number of holes extending right through the thickness of said hub, and a corresponding number of locking members (such as balls) having a radial thickness exceeding the radial thickness of said hub, located in said holes of said hub, whereby when said sliding wheel is out of mesh, said wheel is locked to said non-rotatable sleeve by said locking members projecting from the recesses of said hub into the annular grooves of said sleeve, whereas when said sliding wheel is in mesh with the selected gear wheel, said sliding wheel is locked to said shaft by said locking members projecting from the recesses of said hub into the recesses of said shaft, and also whereby when said sliding wheel is in mesh with the selected gear wheel, the axial thrust of the intermeshing wheels is taken by said locking members and transmitted to said shaft, and said sleeve is relieved thereby of said axial thrust.

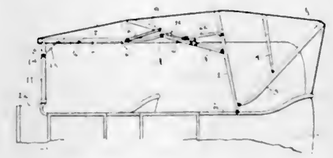
1,379,892. SLUG-CASTING MACHINE. WALTER ALDERDICE, New York, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 21, 1919. Serial No. 318,887. 22 Claims. (Cl. 199—61.)

4. In a slug casting machine, the combination of means for delivering the slugs from the mold, a galley wherein the slugs are stacked and having its entrance arranged remote from their point of delivery, an intermediate inclined chute or trough along which the slugs pass from the delivery means to the galley, the said chute extending first laterally across the machine in a direction at right angles to the plane of delivery of the slugs and then forwardly in a direction parallel to said plane to discharge



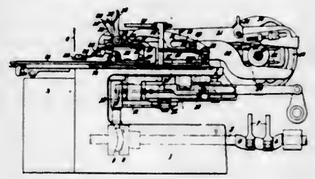
the slugs into the galley, and means for advancing the slugs in the galley in a direction opposite to that in which they are transported across the machine.

1,379,893. VEHICLE-TOP. CHARLES R. ALLEN, Ashtabula, Ohio, assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio, a Corporation of Ohio. Filed Jan. 15, 1915. Serial No. 2,363. 3 Claims. (Cl. 296—116.)



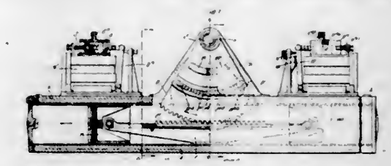
1. In a vehicle top, the combination of a main bow suitably attached to the vehicle body; an articulated auxiliary bow pivotally attached to said main bow; a supplemental bow pivotally attached to the inner portion of said auxiliary bow and adapted to interengage therewith in the raised position of the top; and a link connecting said supplemental bow with said main bow, said link having a lost-motion connection with one of said bows.

1,379,894. WORK-CLAMPING MECHANISM FOR SEWING-MACHINES. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 20, 1915. Serial No. 56,849. Renewed Sept. 17, 1918. Serial No. 254,512. 17 Claims. (Cl. 112—76.)



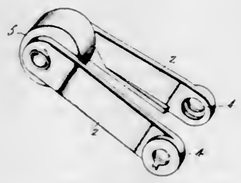
15. In a buttonhole sewing machine, a stationary frame, a traveling work-clamp sustained thereby, a buttonhole cutter, a cutter-operating shaft, a clamp-closing lever fulcrumed on said frame, and a cam operated connection distinct from said cutter-operating shaft between said buttonhole cutter and clamp-closing lever.

1,379,895. AUTOMATIC STABILIZING OR CONTROLLING MEANS FOR AIRCRAFT. GEORGES AVELINE, Soho, London, England, assignor to Raymond Roze-Perkins, Kensington, London, England; Henry Paget-Cooke and Edith Annie Hamilton Douglas-Hamilton executors of said Raymond Roze-Perkins, deceased. Filed Jan. 17, 1920. Serial No. 352,187. 11 Claims. (Cl. 244—29.)



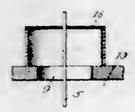
1. Controlling or stabilizing apparatus for aircraft comprising a mercury column in a container to form a gravity switch operated by relative movement between the mercury and container, means whereby said switch actuates electrical means for moving the aircraft controls to right the machine and for returning the controls to the normal position and means whereby the mercury column is placed under the influence of wind suction control produced as a result of the flight of the aircraft to counteract the effect of centrifugal force or inertia on the mercury column which is thereby controlled to insure that the required relative displacement between it and the container takes place.

1,379,896. CAST LINK PROVIDED WITH ANTIFRICTION-ROLLERS AND PROCESS OF MAKING SAME. LEO BETHKE, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 10, 1919. Serial No. 281,805. 2 Claims. (Cl. 74—32.)



2. A unitary link for power chains with side bars and a hollow crossbar on which latter is a free turning, unitary, undivided roller.

1,379,897. PRECIPITATOR FOR HOT GASES. LINN BRADLEY, East Orange, N. J., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1917. Serial No. 196,910. 16 Claims. (Cl. 183—7.)



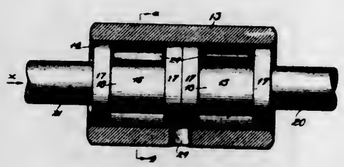
2. The combination with a closed electrical precipitator chamber for hot gases and a discharge electrode system within the chamber, of an electrical conductor passing through an opening in a wall of the chamber to the electrode system and a cover for said opening of transparent electrical insulating and heat insulating material.

1,379,898. SHADE-ROLLER. EMANUEL CARLSON, Yonkers, and MORDECAI WILLIAM RICHARD, New York, N. Y.; said Richard assignor to said Carlson. Filed Oct. 31, 1919. Serial No. 334,769. 4 Claims. (Cl. 156—36.)



4. In a shade roller having a roller body, a hollow cylindrical cap formed from a single piece of material open at one end and closed at the other end, means for securing said cap against movement on said roller body, a pair of pawls and supporting means for said pawls passing through said cap and through each of said pawls, whereby said cap serves as a support for said pawl supporting means and as the ferrule for the shade roller.

1,379,899. COUPLING. CHARLES W. CATHCART, Alexandria, Va. Filed May 10, 1919. Serial No. 296,073. 5 Claims. (Cl. 287—52.)



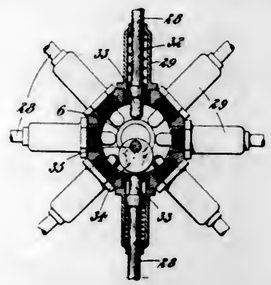
1. A coupling of the character described including a sleeve having a bore therein; a bushing having a shaft bore concentric with the bore of said sleeve and integral annular cylindrical flanges adapted to fit within the bore of said sleeve, the portion of said bushing between said flanges having an outer surface eccentric to the bore of said sleeve and out of frictional engagement with said sleeve; and a roller positioned between said eccentric surface and flange of the bushing and the surface forming the bore of said sleeve, said roller being adapted to wedge itself between said eccentric surface and the bore surface of said sleeve, said bushing being split outwardly from said shaft bore; substantially as described.

1,379,900. STORAGE-BATTERY PLATE AND PROCESS OF MAKING SAME. RUFUS N. CHAMBERLAIN, Chicago, Ill., assignor to Gould Storage Battery Company, a Corporation of New York. Continuation of application Serial No. 214,663, filed Jan. 31, 1918. This application filed Sept. 12, 1918. Serial No. 253,806. 3 Claims. (Cl. 204—29.)

1. A storage battery plate comprising a grid with active material pasted thereon, said active material having uniformly distributed therein particles of wood containing relatively little organic acid, the particles of wood being mostly of a size that just pass through screens of from 25 to 40 mesh to the inch and the quantity of wood particles present in the active material being about 1 part wood to 4 parts by volume of active material when dry.

1,379,901. MOTOR-TRACTOR. JOSEPH CONEY, Bath, England, assignor of one-half to The Lewis Trust Limited, London, England. Filed Oct. 19, 1920. Serial No. 418,095. 3 Claims. (Cl. 301—48.)

3. A traction device comprising, a tubular axle having an opening therein, a wheel revoluble thereon, traction elements movably mounted in said wheel, a spindle revoluble in said axle, an eccentric carried by said spindle



and adapted to be projected through the opening in said axle, and means for rotating said spindle to retract said eccentric to inoperative position within said axle.

1,379,902. HOUSE-GARMENT. MARGARET B. CRANK, Los Angeles, Calif. Filed Mar. 31, 1920. Serial No. 370,090. 5 Claims. (Cl. 2—145.)



1. An outer garment comprising a single piece of material formed of a shoulder portion and front and back lobes folded and fastened at the edges to form a body with a neck portion, and a bib and waist band secured to the body at the neck and freely extending therefrom so that the waist band portion may be drawn about the waist of said body to provide a smooth vest and a girdle.

1,379,903. ROD SOCKET OR COUPLING. JAMES A. DAY, Oilfields, Calif. Filed May 1, 1920. Serial No. 378,225. 2 Claims. (Cl. 294—90.)

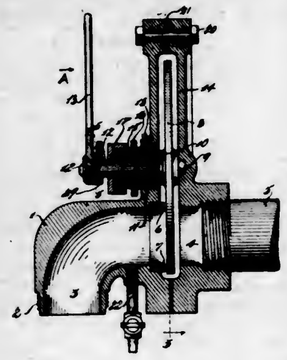


1. In a rod socket, a rod, a semi-circular member attached to said rod, a slide adapted to move on said semi-circular member, said slide and said semi-circular member forming a cylindrical socket, said slide having an L-shaped portion in sliding engagement with said rod, a spring mounted on said rod for the purpose of maintaining said L-shaped portion in contact with the end of said semi-circular member, and means for preventing the free end of said slide from disengagement with said semi-circular member.

1,379,904. PRESSURE-REDUCING VALVE. JOHN H. DERBY, New York, N. Y. Filed Dec. 20, 1916. Serial No. 138,097. 11 Claims. (Cl. 251—86.)

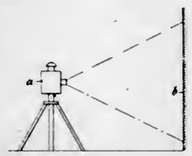
1. In a pressure reducing valve for use with high pressure supply lines, the combination with a pressure reducing valve fixture having an inlet and an outlet and a narrow edge valve seat between said inlet and said outlet, of a valve member movable across said seat and across the direct line of flow between said inlet and said outlet and coöperating with said seat both to close said

outlet and to provide graduated discharge openings, said valve member being entirely inclosed within said fixture,



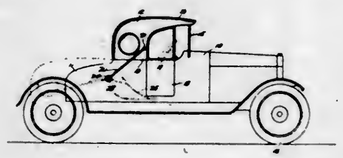
being constantly held against said seat by the fluid pressure and having its two sides freely exposed to inlet pressure except at said seat.

1,379,905. METHOD OF ANALYZING, TRANSMITTING, AND RECONSTRUCTING PICTURES OR THE LIKE. THOMAS MACREADY DOWN, Kew Gardens, England. Filed Nov. 24, 1920. Serial No. 426,237. 9 Claims. (Cl. 35—13.)



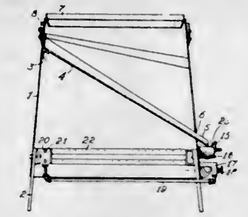
1. A method of analyzing, transmitting and reconstructing pictures, designs and the like, consisting in optically projecting said picture on an exaggerated scale on to a surface subdivided into spaces by intersecting lines, estimating the characteristics of the portions of said picture contained in each said space, transmitting code descriptions of said characteristics associated with code definitions of said spaces, inserting said transmitted characteristics in corresponding spaces of a large surface correspondingly subdivided by intersecting lines and reducing the picture reproduced on said second surface.

1,379,906. CONVERTIBLE AUTOMOBILE-TOP. BEN BROWN ELLERBECK, Washington, D. C. Filed Dec. 9, 1919. Serial No. 343,564. 3 Claims. (Cl. 296—107.)



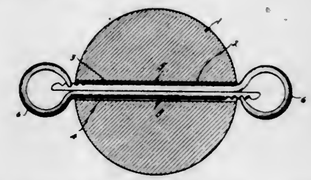
2. The combination with a vehicle body having a seat and a top supporting edge, of a rigid top detachably supported on said body edge, and swinging supporting arms at opposite sides of the body connected thereto, and to the said top and upon which the latter is swingable rearwardly and downwardly from the seat and independently tiltable to form a cover for the lower rear portion of the body, as described.

1,379,907. REPAIRING-STAND. GEORGE W. FAGAN, Cedar Falls, Iowa. Filed Apr. 13, 1920. Serial No. 373,615. 2 Claims. (Cl. 113—59.)



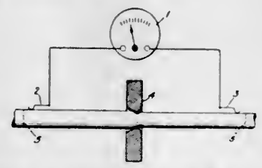
1. In a device of the character described, a hollow casing open at top and bottom, an inclined trough removably mounted across the interior of said casing, said casing having a port through which said trough delivers its contents, an open receptacle removably supported on said casing to receive from said trough, a hopper removably supported in the open top of said casing to deliver into said trough, elongated heating means supported within the lower part of said casing under said trough, and other heating-means supported without said casing under said open receptacle.

1,379,908. COTTER-PIN. HAROLD ROBERT FRANCIS, Los Angeles, Calif., assignor of one-half to Peter W. Francis, Muscatine, Iowa. Filed Dec. 12, 1919. Serial No. 344,323. 4 Claims. (Cl. 74—8.)



1. As a new article of manufacture, a cotter pin comprising a pair of members, said members comprising straight portions having notches therein adjacent one end, integarl curved tongues on the other ends of said members and said members being identical.

1,379,909. METHOD OF DETERMINING TEMPERATURES IN METAL-WORKING. OLIVER C. GILBERT, New York, N. Y. Filed June 21, 1919. Serial No. 305,756. 6 Claims. (Cl. 73—32.)

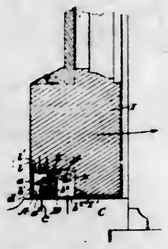


1. The method of determining the temperature of a metal or alloy as it passes through a die, which involves a measurement dependent upon a movement of the metal or alloy and proportional to the electromotive force developed by the thermo-couple formed by the drawn and undrawn metal or alloy while it is passing through the die.

1,379,910. WEATHER-STRIP. JOSEPH P. GLASER, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Filed Sept. 27, 1917. Serial No. 193,521. 2 Claims. (Cl. 20—69.)

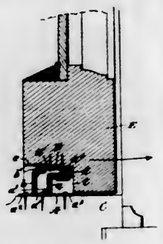
1. A sill strip for casement windows and the like comprising a metal member having two spaced upwardly ex-

tending flanges and an intermediate connecting portion, and an associated member adjustably interfitting with the other member formed of an independent strip of metal folded upon itself to provide a double walled upstanding flange and a horizontally extending base flange at one side



thereof, the opposite walls of the double walled flange being separated from each other to provide a space therebetween, one of the upwardly extending flanges of the other member being disposed within and adapted to be positioned at different points within said space in the adjustment of the members relatively to each other.

1,379,911. WEATHER-STRIP. JOSEPH P. GLASER, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Filed Sept. 27, 1917. Serial No. 193,522. 3 Claims. (Cl. 20—69.)

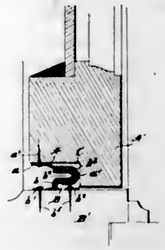


1. The combination with a casement window including a swinging sash, and a window frame having a sill, of a weather strip comprising a metal strip element secured upon the lower face of the sash rail, said strip element having a substantially hook shaped part forming a pocket at one side marginal portion thereof and a flat downwardly inclined sealing portion at its other side marginal portion; and a metal strip element secured upon the upper face of the sill of the window frame, said last mentioned strip element having a pair of upstanding flanges separated from each other to form a channel therebetween, one of the flanges having its upper portion bent outwardly at an angle, the outwardly bent portion fitting within the pocket of the sash strip, and the other of said flanges being flat and extending vertically, said last mentioned flange having a flat upper portion extending at an upward inclination corresponding to the angle of inclination of and fitting flat against the outer face of the downwardly inclined sealing portion of the sash strip over a substantial area transversely of the strips when the sash is in closed position.

2. The combination with a casement window including a swinging sash, and a window frame having a sill, the lower rail of the window sash being provided with a rabbet at its lower outer marginal portion, of a weather strip comprising a metal strip element secured upon the lower face of the sash rail, said strip element having a substantially hook shaped part forming a pocket at one side marginal portion thereof and a flat downwardly inclined sealing portion at its other side marginal portion extending from the inner wall of the rabbet in the sash; and a metal strip element secured upon the upper face of the sill of the window frame, said last mentioned strip element having a pair of upstanding flanges separated from each other and providing a channel therebetween, one of said flanges having its upper portion bent outwardly at an angle, the outwardly bent portion fitting within the pocket of the sash strip, and the other of said flanges having a flat upper portion extending at an upward inclination over and flat against the outer face of the downwardly inclined sealing portion of the sash strip with its upper marginal portion extending beneath the upper wall of the rabbet in the sash and fitting against the said upper wall at the inner edge thereof when the sash is in closed position, said straight upper inclined portion of one strip and the straight downwardly inclined portion of the other strip being of substantial width and fitting against each other over a substantial area transversely of the strips.

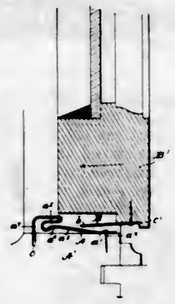
3. The combination with a casement window including a swinging sash, and a window frame having a sill, of a weather strip comprising a metal strip element secured upon the lower face of the sash rail, said strip element having a substantially hook-shaped part forming a pocket at one side marginal portion thereof and a flat downwardly inclined sealing portion at its other side marginal portion; and a metal strip element secured upon the upper face of the sill of the window frame, the last mentioned strip element being constructed from a single strip of flexible sheet metal doubled upon itself intermediate its side edges at different points to provide a pair of upstanding double walled flanges spaced apart, with an intermediate horizontal connecting base portion, and horizontal base flanges at the sides of the upstanding flanges, one of said upstanding flanges having its upper portion bent outwardly at substantially right angles, said outwardly bent portion being adapted to fit within the pocket of the sash strip, and the other of said upstanding flanges having an upper flat portion extending at an upward inclination corresponding to the angle of inclination of and adapted to fit flat against the outer face of the downwardly inclined sealing portion of the sash strip when the sash is in closed position.

1,379,912. WEATHER-STRIP. JOSEPH P. GLASER. Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Filed Sept. 27, 1917. Serial No. 193,523. 3 Claims. (Cl. 20—69.)



1. The combination with a casement window or the like including a swinging sash, and a window frame having a sill, of a weather strip comprising two coöperating strip elements secured upon the bottom rail of the sash and the sill of the window frame respectively, one of said strip elements having a tubular part open at one side, and the other strip element being provided with an upstanding part having at its upper end a tubular portion extending laterally to one side thereof and open at one side, the last mentioned tubular portion being of a size and shape corresponding to the interior of the tubular part of the other strip element to fit within the same with its outer face throughout in close contact with the inner face of the other tubular part throughout the same when the window sash is in closed position, the open side of the inner tubular portion of one of the strips facing outwardly and providing a channel at one side of the interfitting tubular parts of the strips beneath the outer marginal edge of the inner tubular part.

1,379,913. WEATHER-STRIP. JOSEPH P. GLASER, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Filed Sept. 27, 1917. Serial No. 193,524. 2 Claims. (Cl. 20—69.)

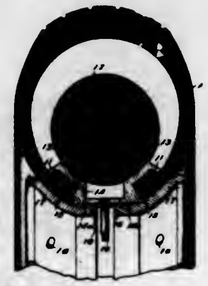


1. The combination with a casement window or the like, the sill of the casing being provided with a groove extending inwardly from the face thereof, of a weather strip comprising a strip member constructed from resilient sheet metal, the strip being secured along one side marginal portion to the sill of the casing, the strip from said marginal portion extending upwardly away from the face of the sill, said strip at its free edge portion being provided with a pocket, and with a portion connected with and extending forwardly from the upper wall of the pocket and downwardly around the pocket and slidably fitting into the groove in the sill, and a second strip member secured to the bottom rail of the sash and provided with a sealing portion adapted to depress the upwardly extending portion of the other strip member and to fit within the pocket of said strip member when the sash is moved to closed position.

1,379,914. METHOD OF TREATING POTASH-BEARING SILICATES. WALTER GLAESER, Brooklyn, N. Y., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 9, 1916. Serial No. 77,319. 12 Claims. (Cl. 23—22.)

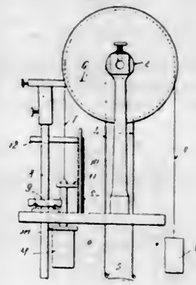
3. In a method of treating feldspar, the steps which consist in mixing powdered amorphous feldspar with a water soluble salt and a reducing contact substance, and then heating the mixture at a temperature above 900° C.

1,379,915. PNEUMATIC TIRE. JOSEPH GUAGLIARDO, Hammond, La. Filed May 21, 1920. Serial No. 383,203. 5 Claims. (Cl. 152—10.)



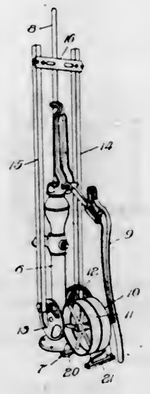
1. A pneumatic tire consisting of an outer inflatable casing forming an air chamber therein, an inner resilient core normally spaced from the outer side and tread portions of the wall of the casing and located within the air chamber and means to clamp the inner portions of the side walls of the casing, said means forming a rigid support for the core as described.

1,379,916. APPARATUS FOR RECORDING VARIOUS PHENOMENA BY THE MOVEMENT OF THE RECORDING-STRIP. FRANÇOIS GUEUGNON, Paris, France. Filed Feb. 23, 1918. Serial No. 218,880. 1 Claim. (Cl. 234—36.)



An apparatus for recording two movements of any desired character comprising in combination, a pulley, means for rotating said pulley according to any desired law, a drum operatively connected to said pulley, a paper strip passing over said drum and hanging loosely therefrom, weights carried by the paper strip and adapted to stretch the same, means for causing the adherence of the paper strip to the surface of the drum, a recording point adapted to contact with a freely hanging part of the paper strip, and means for moving said recording point according to any desired law, substantially as described and for the purpose set forth.

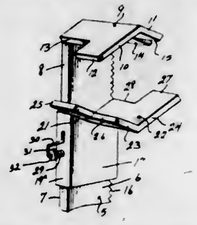
1,379,917. PUMP-JACK. RALPH W. E. HAYES, Galva, Ill., assignor of one-half to Hayes Pump and Planter Company, Galva, Ill., a Corporation of Illinois. Filed Sept. 7, 1916. Serial No. 118,861. 3 Claims. (Cl. 74—14.)



3. In combination with a pump stand upstanding from a stationary surface, a jack framework provided with a pedestal having a base located immediately adjacent the pump stand, and provided with attaching points at widely varying distances from the pump stand or the like to afford rigid securement for the pedestal independently of additional connection with the pump stand or the like, a clamping bracket carried by the framework at a point above and standing inwardly from the base of the pedestal and adapted for clamping attachment to the pump stand or the like to supplement the support afforded by the base of the pedestal, a transverse bearing carried by the framework on the near side of the pump stand or the like, a shaft working in said bearing, a crank disk on each end of said shaft, one of said crank disks being provided with a gear wheel, means for attaching a pitman to each crank

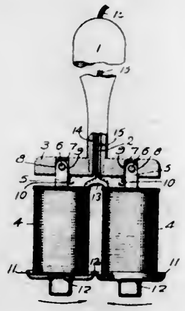
shaft, a stub axle secured to the framework at a position adjacent to the aforesaid gear wheel and extending sidewise toward the other crank disk, a driving pulley mounted on said axle, means for entraining said driving pulley with said gear, and a loose pulley freely mounted on said axle adjacent to the driving pulley, substantially as described.

1,379,918. ADJUSTABLE SOCKET-WRENCH. FRANK J. HERMAN, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 416,059. 2 Claims. (Cl. 81—132.)



1. An adjustable socket wrench comprising a shank, a stationary socket jaw carried by the shank, a slidable socket jaw on said shank, a portion of each jaw being arranged to intersect the opposite jaw upon movement of the slidable jaw toward the stationary jaw.

1,379,919. MAGNETIC-WAVE THERAPEUTIC APPARATUS. THOMAS H. HERNDON, Washington, D. C. Filed Aug. 2, 1920. Serial No. 400,609. 5 Claims. (Cl. 174—177.)



1. In a magnetic wave thereapeutic apparatus independently vibratorily mounted magnets, and a support therefor on which they are mounted for movement toward and from each other and resilient means tending to normally keep said magnets separated.

1,379,920. EMBROIDERY-KNIFE. LOUIS HERZOG, Beacon, N. Y. Filed Sept. 9, 1918. Serial No. 253,211. 4 Claims. (Cl. 30—14.)



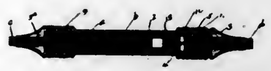
1. A device of the class described consisting of a knife having a blade holder provided with a seat for a detachable blade, a heel at the forward end of said holder and disposed at right angles to a blade held in said seat, a blade having a pointed end and an arched back and means for detachably securing said blade in said seat whereby the forward end of the blade will rest against said heel.

1,379,921. AEROFOIL FOR AEROPLANES. ALEXANDER ALBERT HOLLE, Westminster, London, England. Filed Aug. 11, 1919. Serial No. 316,919. 6 Claims. (Cl. 244—12.)



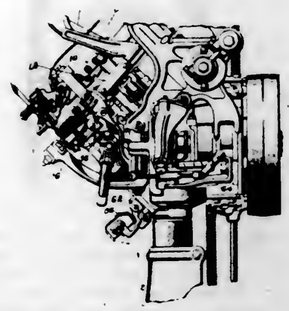
1. In an aerofoil for aeroplanes, the combination of a rigid main part which comprises a main spar, a series of rigid ribs or formers carried by said spar the forward ends of which do not extend as far as the nose or leading edge, and covering surfaces carried by said ribs or formers and extending between said main spar and the rear or trailing edges; and a flexible forward part comprising a series of elastic members carried by the main spar, a rigid nose carried by said elastic members, a series of flexible elements extending between and carried by the main spar and the nose, a series of flexible elements carried by the nose and extending between said nose and said main spar, and covering surfaces carried by said flexible elements.

1,379,922. ERASING AND POLISHING DEVICE. OTTO K. ISENSEE, Chino, Calif. Filed May 20, 1919. Serial No. 298,385. Renewed Apr. 19, 1921. Serial No. 462,797. 7 Claims. (Cl. 120—37.)



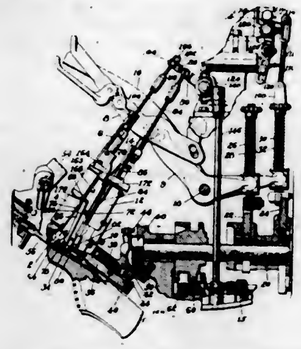
2. A device of the character disclosed, comprising a tubular holder member, a surface-treating element housed within the holder member and adapted to project from one end thereof for application to a surface to be treated, and means coöperating with the holder member to produce projection of such surface-treating element from one end of said holder member; said surface-treating material being provided with a threaded ferrule, and said tubular holder member being internally threaded to co-act therewith; means being provided for turning said ferrule relative to said holder member to advance said surface-treating material; a mouth-piece being applied over said holder member and through which said material is adapted to be projected, said mouth-piece being rotatably connected with said holder member and being so formed as to permit projection of said surface-treating material, but to prevent turning of the same within the mouth-piece.

1,379,923. MACHINE FOR SHAPING UPPERS TO LASTS. BERNHARDT JORGENSEN, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 18, 1917. Serial No. 169,557. 45 Claims. (Cl. 12—4.)



1. In a pulling-over machine, the combination with means for pulling an upper at the toe end and at opposite sides of a last at one operation including a gripper for engaging the upper at the toe end of the last and means for operating said gripper to pull the upper, of means for engaging the margin of the shoe sole to position it at the toe end of the last during the upper pulling operation, and means operatively connected to said margin engaging means for moving it in a direction lengthwise of the sole after the upper has been tensioned.

1,379,924. MACHINE FOR SHAPING UPPERS TO LASTS. BERNHARDT JORGENSEN, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 19, 1917. Serial No. 169,756. 85 Claims. (Cl. 12—4.)



1. In a pulling-over machine, an upper engaging gripper, a hold-down mounted on the gripper for engaging the margin of the sole of the shoe, and means for moving the gripper to pull the upper and for simultaneously moving the hold-down in the direction of the sole to position the margin of the sole with reference to the last.

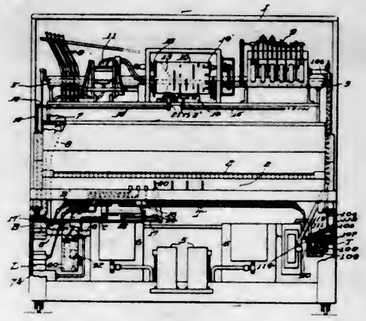
1,379,925. BACK-SCRUBBING DEVICE. UTAKICHI KAWASAKI, San Francisco, Calif. Filed Jan. 28, 1920. Serial No. 354,613. 2 Claims. (Cl. 15—26.)



1. A scrubbing device comprising a scrubbing element, flexible operating elements, and strips connecting the operating elements and extending over and upon opposite sides of said scrubbing element.

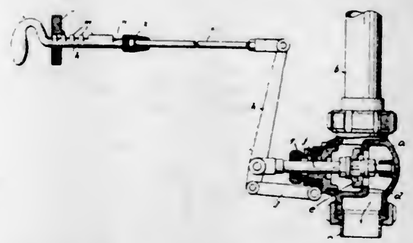
1,379,926. PLAYER-PIANO. OTIS M. KENNEDY, Philadelphia, Pa., assignor to The Cunningham Piano Company, a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,296. 13 Claims. (Cl. 84—33.)

1. A player piano comprising, in combination, pneumatics, including connecting devices, operating to vary the position of the hammer rest rail and thereby actuating the treble, bass and loud pedal instrumentalities, respectively, player pneumatics, pneumatically-actuated valvular means operatively interposed in the main suction conduit leading to the player pneumatics and operative to maintain a uniform operative tension therein regardless of a higher tension created in the main source of pneumatic tension, and manually actuated valvular means having ports and passages adapted to be successively brought into communication with each of said sets of pneumatics, and operable to selectively control the operation of said pneumatically-actuated regulating valve as also, independently, control the tension in each of said first mentioned pneumatics for operatively adjusting the effective position of each of said expression instrumentalities, at the will of the operator.



3. In a player piano, the combination with player pneumatics for operating the string hammers of the piano in accordance with perforations in a music roll, a main source of pneumatic tension including a suction conduit leading therefrom and operatively connected to each of said pneumatics, a divided valve chamber interposed in said conduit and having a connecting passage way between its chambers, pneumatically-actuated valvular means controlling said passage way and operative to control the pneumatic tension delivered through the same from said source of tension to said player pneumatics, and a manually actuated valvular device for establishing communication with the atmosphere and thereby throwing into and out of operation said pneumatically-actuated valvular controlling means.

1,379,927. VALVE OPERATING AND LOCKING MECHANISM. STRICKLAND L. KNEASS, Philadelphia, Pa., assignor to William Sellers & Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 15, 1919. Serial No. 338,316. 8 Claims. (Cl. 137—139.)

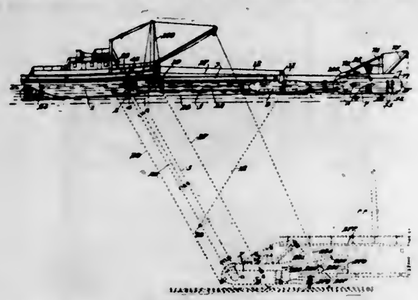


1. In valve operating and locking mechanism, the combination with a valve, a valve actuating mechanism including a slidable and rotatable member adapted in its sliding movement to actuate the valve, said member having a series of notches, and a member having two teeth in different planes, one tooth being arranged to engage the notches when the nember is turned in one direction while the other tooth is arranged to engage the notches when said member is turned in the other direction to lock said member from sliding longitudinally.

1,379,928. SUBMARINE SALVAGING AND EXPLORING APPARATUS. SIMON LAKE, Milford, Conn. Filed Feb. 7, 1920. Serial No. 356,947. 27 Claims. (Cl. 61—69.)

1. In apparatus of the kind described, a surface vessel, a submersible vessel, means connecting these vessels,

floats pivotally projected from said surface vessel and cables connected with said connecting means and co-



operating with said floats whereby said cables are cushioned.

1,379,929. AIR-TUBE FOR PNEUMATIC TIRES AND MOLD THEREFOR. THOMAS BAKER MCLEROTH, London, England. Filed Nov. 24, 1920. Serial No. 426,115. 7 Claims. (Cl. 18—38.)



1. A mold for the production of an air tube for a pneumatic tire as set forth, comprising two outer sections divided on a substantially central plane and adapted to be clamped together, a plurality of cores within said sections, means carried by said sections and (or) by said cores for producing in the tube the apertures through which the compartments communicate with the feed passage and the slits or apertures through which the cores are to be withdrawn, and, if required, means for producing the feed passage integrally with the air tube.

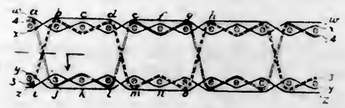
1,379,930. TATTING-HOOK. MINNIE C. MOUSER, San Diego, Calif. Filed Dec. 6, 1917. Serial No. 205,817. 1 Claim. (Cl. 66—10.)



A tatting device including a finger engaging thimble, a straight stem projecting from the closed end of the thimble in longitudinal alinement with the longitudinal axis of said thimble, said stem being sharply pointed at its outer end and being provided with a barb having a rearwardly directed point and which merges into the pointed end of the stem.

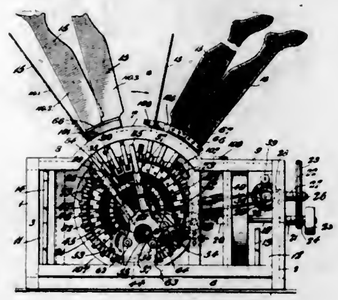
1,379,931. PILE FABRIC. FREDERICK OTT, Norristown, Pa., assignor, by mesne assignments, to A. T. Baker & Company, Inc., Manayunk, Pa., a Corporation of Pennsylvania. Filed Apr. 11, 1919. Serial No. 289,290. 4 Claims. (Cl. 139—9.)

4. A cut pile fabric comprising weft threads, pairs of binder warp threads, and two sets of cut warp threads out of longitudinal alinement, between each pair of binder warp threads, each pile warp thread passes from the front about successive weft threads and back to the front, the threads of one set of pile warp threads being staggered with relation to the threads of the other set, portions of each binder adjacent to the pile warp threads floating over the back of the weft threads which are inter-



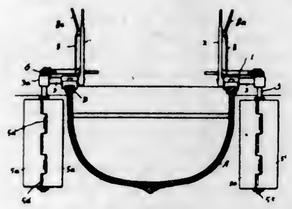
woven with the pile warp threads, while the adjacent portions of the companion binder warp threads are interwoven with the weft threads and the pile warp, the arrangement being such that the binder warp threads will not pass around the weft threads with an adjacent pile warp thread.

1,379,932. DRYING-MACHINE. BERTRAND A. PARKES, Philadelphia, Pa. Filed Nov. 19, 1919. Serial No. 339,143. 9 Claims. (Cl. 34—12.)



7. A drying machine which comprises in combination:—a casing having a slotted cover,—a drying chamber within said casing opening beneath said slotted cover,—means for circulating a heating medium through said chamber,—a form-carrying disk rotatable within said drying chamber,—a plurality of article-carrying forms connected with said disk and adapted to be both turned and tilted with relation thereto,—means for intermittently rotating the disk and forms,—and means for both turning and tilting the forms relatively to the disk and casing, whereby the forms may be moved both into and out of the drying chamber through the slots in the cover.

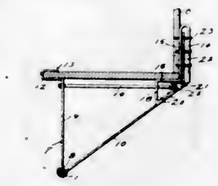
1,379,933. BOAT-PROPELLING DEVICE. CHARLES F. PARKS, Fairmount, Ind. Filed Sept. 19, 1919. Serial No. 324,805. 2 Claims. (Cl. 115—21.)



1. A rowing device, comprising a primary lever, a shaft to which the lever is secured, a journal bearing for the shaft, an arm journaled in the said shaft at an angle to the axis of said shaft, a secondary lever carried by

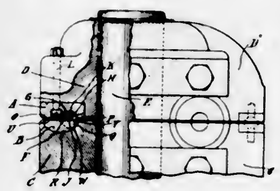
the primary lever, connections between the arm and the said secondary lever that cause the said arm to be shifted rotatively a predetermined distance when the secondary lever is operated, blades collapsibly carried by the said arm adapted to assume a spread position of resistance to the water when the primary lever is moved in one direction, and to assume a collapsed position when the said lever is moved in the opposite direction.

1,379,934. BRACKET. CHARLES HERMAN PASCHKE, Buffalo, N. Y. Filed Jan. 11, 1921. Serial No. 436,478. 4 Claims. (Cl. 248—18.)



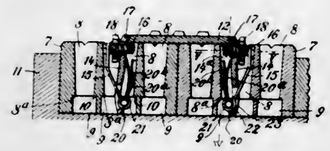
1. A bracket comprising a length of metal bent intermediate its ends to form upright and inclined arms, the terminal portion of the upright arm being formed with a shelf supporting member, the upper portion of the inclined arm being formed with a U-shaped attaching member having spaced arms, one of the arms of said U-shaped attaching member being formed with a loop engaged with said inclined arm and constituting a shelf supporting member.

1,379,935. CENTERING DEVICE. ARTHUR E. PETERS, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 15, 1920. Serial No. 374,178. 5 Claims. (Cl. 76—5.)



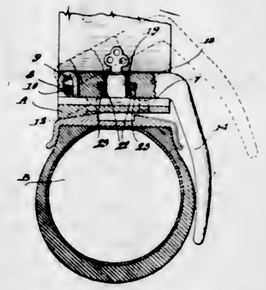
1. A centering device for centering cylindrical articles comprising two relatively movable members, one having a clamping recess and the other having a clamping surface, and including means for automatically moving said member having the clamping surface to center and clamp articles of different sizes between the members at a constant distance from a given base.

1,379,936. PRINTING APPLIANCE. JOHN P. QUIGGAN, Brooklyn, N. Y. Filed Feb. 14, 1918. Serial No. 217,069. 6 Claims. (Cl. 101—383.)



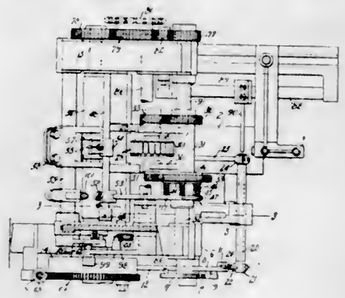
1. In a printing appliance, the combination of a base block having a series of annular openings therein formed with shoulders adjacent to their lower ends, and a printing plate adapted to be positioned thereon, of means for positively fastening the printing plate to said block, said means comprising a clamping device formed for location within an opening in said base block and provided with a plate-engaging jaw at its upper extremity, the lower extremity of said device having a surface adapted to engage with said shoulder, and means carried by said device and operable to function said jaw whereby the plate will be immovably held on said base.

1,379,937. LOCK FOR SPARE RIM AND TIRE CARRIERS. EARL J. RENFROW, Modesto, Calif. Filed Nov. 25, 1919. Serial No. 340,504. 4 Claims. (Cl. 224—29.)



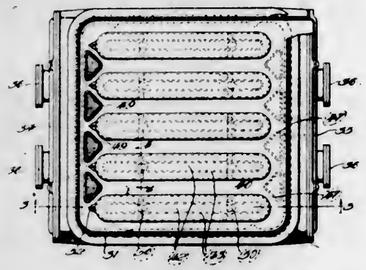
4. The combination with a spare tire and rim carrier, of a lock therefor including an upstanding slotted ear, a transversely extending locking lever, a pivot pin carried by the locking lever and slidably and rotatably positioned in the slot in said ear, the lever including a body arranged to overlie the carrier, and a right angularly extending relatively broad operating handle arranged to engage the tire and rim when the lever is moved into operative position, and means arranged on the carrier for releasably engaging the lever to hold the same against accidental displacement.

1,379,938. SHEET-FEEDING MACHINE. GEORGE A. ROBINSON, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Maine. Filed May 4, 1920. Serial No. 378,849. 32 Claims. (Cl. 271—38.)



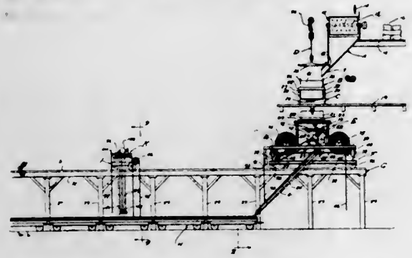
4. In a sheet feeding machine in combination, a combing roll and a shaft therefor, means for constantly rotating said combing roll, a rotating ratchet driven from the combing roll shaft through a yieldable friction drive, means for lowering the combing roll to act on the top of a pile of sheets and tripping means controlled by the advancing edge of a combed out sheet to stop the rotation of the said friction driven ratchet and thereby through the frictional resistance of the friction drive, to raise said combing roll out of engagement with the top of the pile of sheets.

1,379,939. AMMONIA-STILL AND THE LIKE. ARTHUR ROBERTS, Evanston, Ill., assignor to American Coke & Chemical Company, Chicago, Ill., a Corporation of Maine. Filed July 6, 1920. Serial No. 394,306. 7 Claims. (Cl. 203—1.)



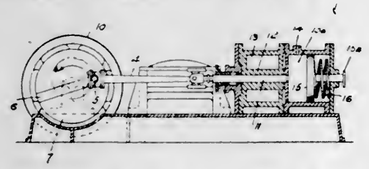
4. In a device of the class described, a tray for a vaporizing unit having a series of elongated parallel openings, an upstanding collar surrounding each of said openings, a bell in conjunction with each opening and having a downwardly depending flange encircling the corresponding collar, one end of each bell being rounded, there being a series of overflow openings in the tray, and a triangular upstanding flange in conjunction with each of said openings, each flange having its apex located between the ends of the adjacent bells, substantially as and for the purpose set forth.

1,379,940. PROCESS AND MEANS FOR MAKING PLASTER-BOARD AND THE LIKE. JOHN SCHUMACHER, Los Angeles, Calif. Filed May 10, 1920. Serial No. 380,097. 18 Claims. (Cl. 154—2.)



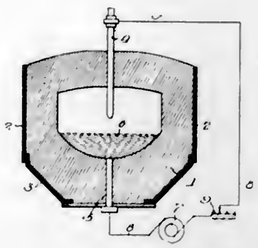
1. The herein disclosed process of handling plaster board and the like, which consists in continuously forming flexible plaster board, reciprocating the forming mechanism above a receiver, and flowing said plaster board upon said receiver during travel of said mechanism so that the board is stacked in layers on said receiver.

1,379,941. DEVICE FOR DRIVING SHAFTS. WALTER SMEDLEY, Crewe, England. Filed Jan. 24, 1920. Serial No. 353,856. 3 Claims. (Cl. 74—14.)



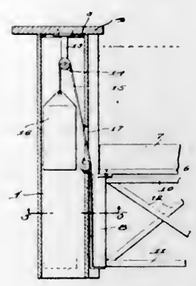
2. In combination with a power shaft, a crank pin on the power shaft, a slotted rotatable element, eccentric to the power shaft and engaged by the crank pin, and a plunger interconnected with said pin adapted to compress a fluid during one arc of movement of the slotted element, which compression energy is reimparted at a greater mean leverage to the power shaft during another arc of movement.

1,379,942. ELECTRIC FURNACE AND METHOD OF OPERATING SAME. FREDERICK T. SNYDER, Oak Park, Ill., assignor to Industrial Electric Furnace Company, Chicago, Ill., a Corporation of Indiana. Filed Oct. 23, 1913. Serial No. 796,746. 22 Claims. (Cl. 204—64.)



1. The method of regulating the temperature of an electric furnace having refractory heat insulating walls and provided with a resistor having a negative temperature coefficient, which consists in subjecting the circuit of the electric supply to means which decreases the energy developed in the furnace with an increase in the current flow through said resistor.

1,379,943. CHAIR FOR INFIRM PEOPLE. SIDNEY STEVENS, Millinocket, Me. Filed Sept. 21, 1920. Serial No. 411,782. 6 Claims. (Cl. 155—88.)



1. A chair having a seat which is movable in a straight vertical path, posts forming a part of the frame of the chair, weights having flexible connections with said seat, said flexible connections running over supports on said posts, whereby the downward pull of the weights tends to pull the seat upward and thereby to aid the sitter in rising.

1,379,944. TOY. ELLIOTT M. STORY, Braintree, Mass. Filed Aug. 2, 1920. Serial No. 400,587. 1 Claim. (Cl. 124—2.)

A toy comprising a hand piece including a head having a horizontally extended arrow-guide and a handle fixed to the head and substantially perpendicular to the said guide, and an elastic looped strip fixed at its ends to the head adjacent to one end portion of said guide, and an arrow including a shaft formed to have a lateral movement of considerable amplitude in the guide, and adapted to be projected from the latter by the contraction of said strip, the lower portion of the guide forming a rest adapted to support and guide the arrow horizontally and the lateral

movability of the arrow in the guide permitting various inclinations of the arrow relatively to said rest, the said head being a block having relatively wide vertical side

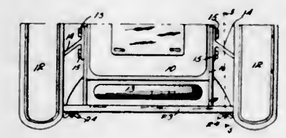


faces, and relatively narrow vertical end faces, and the said guide being the wall of a horizontal circular hole bored in the block from one end face to the other, between the side faces.

1,379,945. BALL-BEARING. WALDEMAR H. TEETSOW New York, N. Y. Filed Dec. 18, 1919. Serial No 345,781. 2 Claims. (Cl. 64—36.)

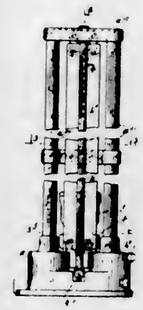
2. A ball bearing comprising a solid raceway having a central bearing rib, adapted to separate and seat a double row of anti-friction balls, a sectional raceway comprising a pair of mating sections having outer annular rims, constituting means for seating and confining said anti-friction balls against the center rib when the sections are brought together, said sections being axially separable to admit of the introduction or removal of the balls, and a temporary locking ring co-acting with said separable sections to retain same against relative separation during the assembly of the bearing in a hub or housing.

1,379,946. COMBINATION FENDER-BRACE AND BUMPER. WALTER H. THOMAS, Spencer, Iowa. Filed Oct. 9, 1920. Serial No. 415,726. 5 Claims. (Cl. 280—153.)



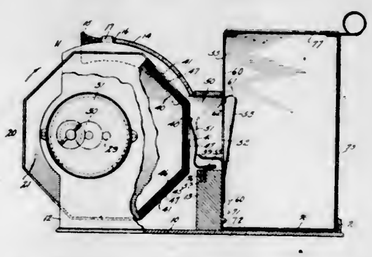
5. In combination with a vehicle body having a pair of fenders and brace members for supporting the fenders on said vehicle body, a combination fender brace and bumper support, having one end fixed to each side of said vehicle body and the other end to said fenders, said combination fender brace and bumper support being formed with a pair of parallel sides of different lengths and having one of their ends connected with a cross portion, said last portion being provided with an opening, a bumper member having an opening at each end adapted to extend between said fenders and have said openings register with said first opening, whereby a detachable fastening device may be used for securing said bumper member to said combination fender brace and bumper support.

1,379,947. TACHOMETER. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed May 28, 1919. Serial No. 300,408. 10 Claims. (Cl. 264—19.)



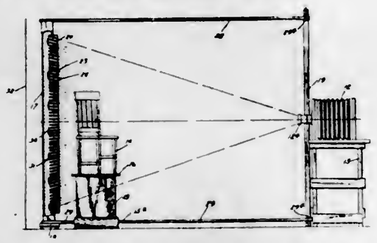
1. In an instrument of the character described, the combination of an integral base, chambered from its under side, a block chambered from its under side to receive an impeller, and provided with a discharge opening, a reservoir chamber being formed in the base above the block, an impeller, and a chambered cap-plate to close the impeller chamber from below, a channel being formed in the block to effect communication from the chamber above the block to the upper side of the impeller chamber at its center, and channels being also provided to establish communication between the chamber of the cap-plate and the chamber above the block and the under side of the impeller chamber at its center.

1,379,948. FLYTRAP. WILLIAM SIMPSON WALLACE, Fort Worth, Tex., assignor of one-half to Casper O. Dallet, Taylor, Tex. Filed Apr. 27, 1920. Serial No. 377,021. 9 Claims. (Cl. 43—111.)



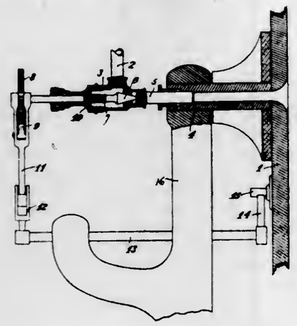
1. In a trap of the class described, a casing having an opening provided in its bottom with a groove, a polygonal drum having bait-carrying means removable on each face thereof adapted to convey insects to the said opening, an upstanding gravity scraper in the form of a plate held in the said opening and having a base provided with a depending member loosely engaging the said bottom groove to allow the scraper to rock, the upper free end of the scraper engaging the said bait-carrying means to remove the insects therefrom, and a cage removably associated with the said casing and having an entrance at the said opening to allow the insects to pass from the opening into the cage.

1,379,949. PROCESS AND APPARATUS FOR PRODUCING PHOTOGRAPHIC NEGATIVES. PAUL H. WEDMARK, Minneapolis, Minn. Filed Mar. 15, 1920. Serial No. 365,775. 9 Claims. (Cl. 95—5.)



1. The process of making photographic negatives which consists in moving a light-font back of the object being photographed during the period of exposure.

1,379,950. CHURN OR CHURN-KNEADER. ANDERS CARL AUGUST ZEUTHEN, Silkeborg, Denmark. Filed May 17, 1916. Serial No. 98,003. 1 Claim. (Cl. 137—139.)



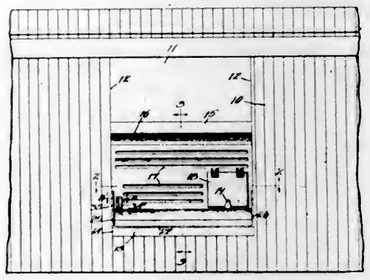
In a rotating churn, water supply means, regulating means therein adapted to regulate the water supply, and controlling means for operating said regulating means, said controlling means consisting of means adapted to operate said controlling means to a predetermined degree to in turn operate said regulating means to admit a predetermined supply of water to said churn, and a pin on said churn adapted to operate said last named means by the rotation of said churn, said last named means adapted to move beyond the outer end of said pin when said regulating means is moved to its full open position.

1,379,951. HINGE. ALPHONSE ALARY, St. Casimir, Quebec, Canada. Filed Feb. 24, 1919. Serial No. 278,716. 1 Claim. (Cl. 16—163.)



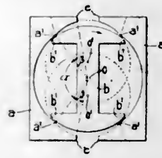
A hinge of the character described comprising an upper and lower plate each of a substantially rectangular formation, a projection formed upon the outer edge of the lower plate at the upper end thereof, a stub shaft formed integral on the outer edge of said projection, a slot extending transversely therein, a roller journaled in said slot having its outer periphery extending above the edge of said projection, a sleeve formed at the lower end of the upper plate on the outer edge thereof and adapted to receive said stub shaft, said sleeve having its upper end closed and its lower edge adapted to rotate over said roller, said lower edge being inclined upwardly toward the plate whereby the door will normally swing closed by its own weight and recesses formed on said lower edge of the sleeve diametrically opposite thereon for engagement with said roller and adapted to secure the door in an open or closed positio..

1,379,952. FREIGHT-CAR CONSTRUCTION. SVEN P. ALQUIST, Sedalia, Mo., and ALLAN S. BARROWS, Chicago, Ill., assignors of one-third to W. L. Kellogg, Detroit, Mich. Filed Dec. 14, 1916. Serial No. 136,846. 1 Claim. (Cl. 20—31.)



In a car having a door opening in a side wall thereof, defined by side posts, threshold and lintel, the combination with a door horizontally slidably mounted on the inner side of said wall, of fixed means, disposed outside of the door opening arranged to thereby leave the latter unobstructed, coöperable with the side and bottom edges of the door to form a grain seal therewith when the door is in closed position, said door being formed of sheet metal and having a central, corrugated inwardly dished portion and flat marginal portions, the latter adapted to slidably bear against the inner face of said side wall, said door having an auxiliary relief door disposed within the area of the dished portion and inwardly of the plane defined by said flat marginal portions to thereby avoid interference when the door is moved to one side of the door opening back of the side wall of the car.

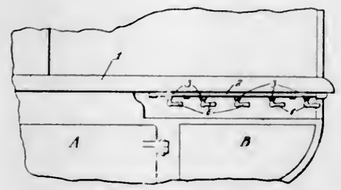
1,379,953. IGNITION-MAGNETO FOR INTERNAL-COMBUSTION ENGINES. HECTOR ANDREINO, Le Locle, Switzerland, assignor to The Society Fabriques des Moutres Zenith successeur de Fabriques des Moutres Zenith Georges Favre-Tacot & Cie., Le Locle, Switzerland. Filed Mar. 31, 1921. Serial No. 457,349. 1 Claim. (Cl. 171—209.)



An ignition magneto for internal combustion engines comprising a field magnet, a rotary armature, pole pieces on said field magnet and extensions on said pole pieces having eccentrically curved faces, each pair of which lie

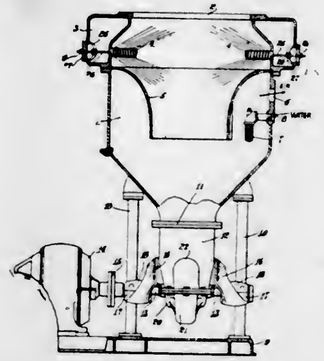
on the peripheral surface of a geometrical cylinder having its axis parallel to the axis of rotation of the armature, the axes of the two cylinders being equally distant from the axis of rotation and the diameters of the two cylinders being equal to on another and less than the diameter of the bore of the pole pieces of the field magnet, so as to form between the said curved extensions and the armature of the magneto, an air gap which increases gradually from each pole edge to the outer edge of its extension, for the purpose specified.

1,379,954. RANGE. EUGENE L. BAKER, Taunton, Mass. Filed Oct. 30, 1920. Serial No. 420,845. 3 Claims. (Cl. 126—39.)



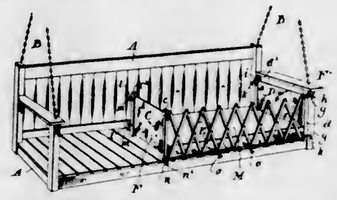
1. In a combination coal and gas range the combination with a gas manifold, gas burners, and gas cocks interposed between the manifold and burners and having their handles underneath, of a continuous supporting flange extending outwardly and downwardly from the range and extending continuously along the front of the coal burning and gas burning portions and partly housing the manifold.

1,379,955. JET-CONDENSER. PAUL A. BANCEL, Nutley, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 18, 1919. Serial No. 324,624. 6 Claims. (Cl. 261—34.)



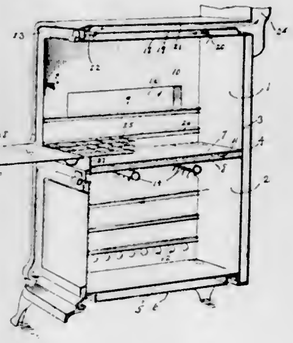
1. In a condenser installation, a condenser, means in vertical alinement therewith for supporting the same, a condensing chamber, a condensate removal pump below said chamber in vertical axial alinement therewith and supported entirely by the walls of the chamber, said pump having a body portion joining the lower end of said chamber, an intake in which the flow is vertically downward and a side discharge, a pump cover plate separably secured to and depending from the body portion of said pump and brackets supporting the impeller bearings, whereby the condenser installation is supported by the means supporting the condenser.

1,379,956. COMBINATION PORCH-SWING AND CRIB. RACHEL BARBOUR, Seymour, Ind. Filed Jan. 21, 1921. Serial No. 438,903. 2 Claims. (Cl. 5—41.)



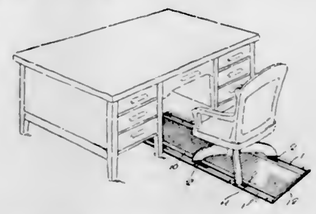
1. A crib member attachment for swings, comprising ends, each consisting of posts and a connecting flexible member, and a side member connecting the end members consisting of lazy-tongs.

1,379,957. GAS-STOVE. WILLIAM J. BEST, Cleveland, Ohio. Filed Aug. 18, 1917, Serial No. 186,845. Renewed Sept. 25, 1920. Serial No. 412,894. 3 Claims. (Cl. 126—39.)



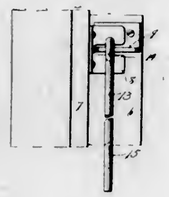
3. A stove comprising a broiling chamber, an oven mounted above the broiling chamber and having a door opening, a single set of burners in the broiling chamber, passages extending from openings in the sides of the broiling chamber to openings in the sides of the oven, and a shelf in the oven level with the bottom of the door opening and so spaced above the bottom of the oven as to leave an air space between them.

1,379,958. CHAIR-MAT. MAURICE BLUMENTHAL, Brooklyn, N. Y. Filed Aug. 5, 1919. Serial No. 315,462. 4 Claims. (Cl. 155—78.)



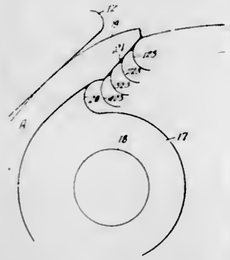
1. A chair mat comprising a bed plate, track members overlying the bed plate at opposite longitudinal edges thereof, a filler overlying the bed plate between said track members, and means slidably connecting the track members with the bed plate whereby said track members are adjustable upon the bed plate.

1,379,959. SASH-FASTENER. JOHN F. BRODOWSKI, Milwaukee, Wis. Filed Feb. 9, 1920. Serial No. 357,446. 4 Claims. (Cl. 292—262.)



1. A device of the class described comprising the combination with a pair of relatively main movable parts, of a keeper member secured to one of said parts and provided with a slot, an attachment member secured to the other part and provided with a slide portion movable through the slot of the keeper member, and a holding member having one portion pivotally and slidably mounted on said slide member and provided with a recess adapted to receive a portion of the keeper member to hold the main parts spaced, the end portion of the holding member being engageable against the keeper member when the slide member is inserted through the slot of the keeper member, to hold said main parts together.

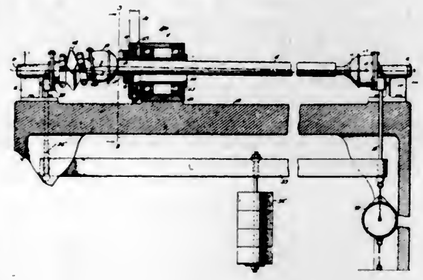
1,379,960. EMERGENCY-KNUCKLE FOR CAR-COUPLINGS. JAMES P. CARNEY, Detroit, Mich., assignor of one-half to Catherine E. Long, Chicago, Ill. Filed Feb. 7, 1920. Serial No. 356,841. 3 Claims. (Cl. 213—65.)



1. An emergency knuckle for car couplers which conform to standardized requirements and have a wall providing a forward edge extending vertically on the opposite side of the coupler to that of the guard arm, said knuckle having an inwardly extending main arm conforming to standardized requirements, a perforated pivot lug adapted to be inserted between the upper and lower walls of the coupler head and be pivoted thereto by a knuckle pin, and a vertically extending, substantially outwardly and rearwardly facing surface on its outer portion arranged to bear against the said vertically extending edge of the side wall of the coupler head to thereby hold the knuckle against opening movement and in a predetermined position with respect to standardized parts of the coupler, the contour of said outwardly and rearwardly facing surface conforming to the locus of the vertically extending forward edges of the side walls of a plurality of couplers differing in this respect, whereby the emergency knuckle is interchangeably usable with couplers differing as aforesaid.

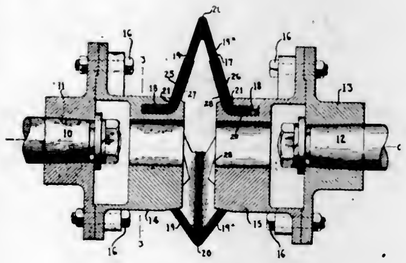
1,379,961. METHOD AND APPARATUS FOR TESTING UNIVERSAL JOINTS. ROLAND CHILTON, Freehold, N. J. Filed Nov. 15, 1919. Serial No. 338,309. 16 Claims. (Cl. 73—51.)

1. In the art of testing the efficiency of an organization consisting of two shafts connected by a universal joint, the method which consists in imposing a torque force on the organization in a direction tending to prevent relative rotary movement of the shafts about their axes and causing



one end of the joint to describe a planetary movement thereby to cause the common plane of the axes of the shafts to rotate.

1,379,962. UNIVERSAL JOINT. ROLAND CHILTON, Keyport, N. J. Filed May 28, 1920. Serial No. 384,851. 25 Claims. (Cl. 64—96.)

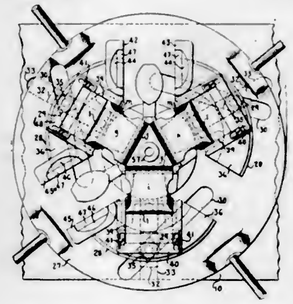


1. An elastic shaft coupling comprising two coupling members, each mounted for rotary movement about an axis extending substantially in the same general direction, and spring plate structures connecting the coupling members, said structures each having end portions extending substantially tangent to the circle of rotation of the attached members and including flat sides coacting to form approximately V-shaped spring extensions connecting the end portions of said structures, each of said flat sides being connected along one base edge with the contiguous coupling member and connected along the opposite edge with each other to form the crown edge at the angle of the V, said flat sides being reduced in width circumferentially of the circle of rotation between said connnected edges thereby to feature circular deflection while maintaining capacity to transmit rotary motion from one coupling member to the other.

1,379,963. METHOD AND APPARATUS FOR FORMING SPRING-COUPLINGS. ROLAND CHILTON, Keyport, N. J. Filed July 20, 1920. Serial No. 397,790. 50 Claims. (Cl. 22—58.)

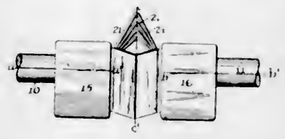
1. In the art of forming laminated spring structures with a cast-on end part and with parts exteriorly of the cast on end free to move, the method which consists in assembling the laminations in preset relative formation, temporarily holding the laminations together under tension

at a plurality of spaced apart points to prevent relative movement of the same during the succeeding operation and



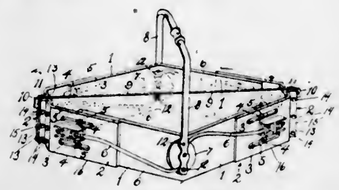
casting metal about one end of the held laminations thereby to secure the laminations at said end in fixed preset relation.

1,379,964. UNIVERSAL JOINT. ROLAND CHILTON, Matawan, N. J. Filed Apr. 11, 1919, Serial No. 289,358. Renewed Oct. 13, 1920. Serial No. 416,781. 7 Claims. (Cl. 64—96.)



1. In a device of the class described, the combination with a driving and a driven member normally disposed with their axes in substantial alinement, of a coupling disposed therebetween to transmit rotary movement from the driving to the driven member, said coupling including a pair of spring members positioned on opposite sides of said axes and each having their opposite ends rigidly secured to said members, each of said spring members including a plurality of laminate spring elements, each extending between its ends in a direction radially of said axis of rotation and each lamina adapted to assume its proportion of the torsional strain to which said spring member is subjected.

1,379,965. CEMENT-BLOCK MOLD. CHARLES W. CLELAND and JAMES G. CLELAND, Baldwin Park, Calif. Filed Sept. 16, 1920. Serial No. 410,576. 8 Claims. (Cl. 25—121.)



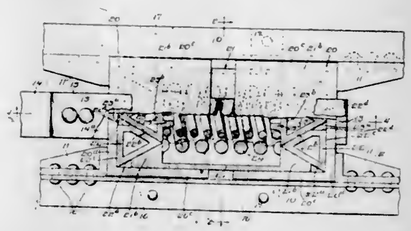
7. A mold comprising side and end walls, a sliding connection between the side and end walls, a plate separating the mold into compartments, a resilient bail pivotally connected to the side walls, pairs of rods pivotally connecting said bail with the end walls, said bail and rods adapted when actuated to move the side and end walls toward or away from the center of the mold.

1,379,966. END CLIP. CLARENCE A. COOK, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Mar. 17, 1920. Serial No. 366,620. 5 Claims. (Cl. 24—143.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



4. An end clip for woven material comprising a cup shaped member having a flattened closed end and an inwardly spun edge at its open end, the closed end adapted to buckle inwardly when the clip is flattened upon the material.

1,379,967. FRICTION DRAFT-GEAR. ROY J. COOK, Chicago, Ill., assignor to George C. Murray, Chicago, Ill. Filed Apr. 9, 1920. Serial No. 372,460. 8 Claims. (Cl. 213—64.)



1. The combination with a draft gear yoke of casings mounted in the opposite ends of said yoke and facing toward each other, friction shoes mounted within and extending between said casings, said friction shoes having surfaces coacting with the lateral walls of said casings, and intermediate compressible mechanism mounted between said friction-shoes and coacting with the end walls of said casings.

1,379,968. LOCK FOR CROSS-CHAINS. WILLIAM HENRY COOK, Lee, Mass. Filed Aug. 31, 1920. Serial No. 407,115. 2 Claims. (Cl. 24—241.)

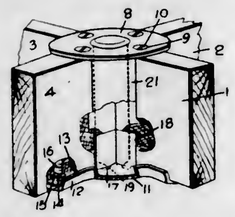


1. In a lock for cross chains, the combination of interengaging pivoted plates, the outer plate being U-shaped in cross section, each of the plates having overlapping transverse slots, the outer plate having a central slot, the inner plate having a perforated projection shaped to pass through said central slot, and fastening means for said plates, said means comprising a cotter pin insertible through the perforated projection named, substantially as and for the purposes described.

1,379,969. CENTER HUB FOR REVOLVING CHAIRS. ROBERT KENNEDY DAWSON, Guelph, Ontario, Canada. Filed Jan. 28, 1921. Serial No. 440,698. 2 Claims. (Cl. 155—138.)

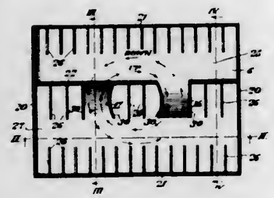
1. A center hub for revolving chairs, comprising an upper plate and a lower opposing plate suitably connected together, chair legs extending at their inner ends between

the opposing plates and having recesses at the lower portion thereof and lug projections extending upwardly from



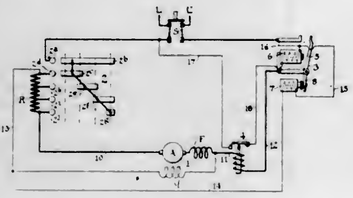
the lower plate and fitting the recesses and adapted to resist the tendency to outward pull of the chair leg when downward pressure is brought to bear upon the center hub.

1,379,970. STORAGE-BUILDING. FERNAND E. D'HUMY, Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y., a Corporation of Delaware. Filed June 26, 1920. Serial No. 392,127. 6 Claims. (Cl. 20—1.13.)



5. A building comprising outer walls, two closely adjacent groups of floors overlying two different parts of the ground area within the walls, the floors of one group being located in planes intermediate the planes of the floors of the other group, and two series of ramps connecting the two groups of floors located wholly within the vertical planes of the edges of one group of floors, the ramps of one series being inclined oppositely to the ramps of the other series so that two oppositely inclined ramps extend from points within the outer edges of each floor of one group to points at the adjacent edges of the next higher and lower floors of the other group, each floor having a passage connecting the ends of the ramps communicating therewith.

1,379,971. CIRCUIT-CONTROLLER. CLARENCE T. EVANS and RICHARD B. HUNTER, Milwaukee, Wis., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 27, 1915. Serial No. 47,636. 9 Claims. (Cl. 175—294.)



1. A circuit controller including a protective switch, a winding for setting and holding said switch subject to release upon failure of voltage, means controlling said winding to also effect release of said switch upon the occurrence of overloads and a second winding for said switch to oppose resetting thereof when released upon either failure of voltage or an overload.

1,379,972. IGNITION SYSTEM FOR TORPEDOES. BRADLEY A. FISKE, New York, N. Y. Filed Oct. 5, 1920. Serial No. 414,898. 5 Claims. (Cl. 114—20.)



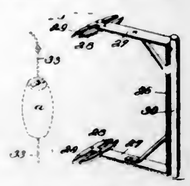
1. In an ignition system for self-propelled torpedoes, the combination of a fuse, a generator operated by the motion of the torpedo through the water, an electro-magnetic mechanism influenced by variations in the magnetic field exterior to the torpedo, and means whereby an increase or decrease of the magnetic field will cause the electro-magnetic mechanism to close the circuit of the generator through the fuse and thereby explode it, substantially as set forth.

1,379,973. STRAIGHT-LINE KNIFE. JOHN B. GILLESPIE, Hoquiam, Wash. Filed Oct. 10, 1919. Serial No. 329,662. 1 Claim. (Cl. 145—1.)



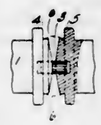
A straight line knife comprising a flat blade tapered at one end, saw teeth on one edge of the tapered end, all beveled in the same direction, each tooth having a flat face in the plane of one face of the blade, and pyramidical saw teeth on the opposite edge of the tapered end in alinement with each other and disposed in a direction opposite to the bevel of the first named teeth.

1,379,974. MAIL-EXCHANGE DEVICE. JOHN EWIN GLASS, Marion, Ky. Filed Feb. 4, 1919. Serial No. 274,947. 3 Claims. (Cl. 258—17.)



1. A mail transfer device comprising a train member provided with a body portion having integral angularly disposed carrier arms, a supporting member attached to said body portion throughout the length of the latter, retaining means pivotally engaging the ends of said supporting member, whereby the train member may swing on a vertical axis, sack-engaging members on said arms extending transversely thereof, and means coöperating with the train member for receiving mail matter from and delivering other mail matter to the same.

1,379,975. METHOD FOR RECLAIMING BROKEN ROLLS. THOMAS B. GOLDEN, Pottsville, Pa., assignor to David R. Knapp, Pottsville, Pa. Filed Feb. 13, 1920. Serial No. 358,525. 4 Claims. (Cl. 29—148.)



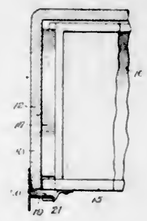
2. The method of reclaiming broken rolls, which consists in mechanically uniting the meeting ends of a broken roll, and then permanently welding said ends and the uniting means to form a complete unitary roll conforming to the original roll.

1,379,976. BRUSH. MORITZ GUTMANN, Seattle, Wash. Filed Oct. 23, 1920. Serial No. 419,156. 1 Claim. (Cl. 15—28.)



A polishing device comprising a body having a hand receiving pocket, a yielding spacing member secured in the pocket for keeping the upper and lower walls thereof spaced apart, and a glove-like portion attached to the upper wall of and within the pocket.

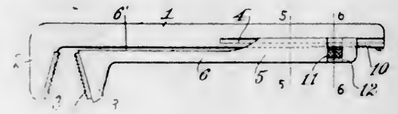
1,379,977. DRAWER-LOCKING DEVICE. BEN M. HAMLIN, Chicago, Ill., assignor to J. V. Meyering Trunk Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1920. Serial No. 419,308. 4 Claims. (Cl. 45—94.)



3. Means for locking a tier of drawers in a cabinet, one drawer of which is lock controlled, comprising two drawer retaining strips hingedly secured to the cabinet and arranged when in operative position to lock the drawers of the tier, other than the lock controlled drawer, and strip engaging members connected with and projecting from the lock controlled drawer, overlapping said drawer retaining strips and acting to hold said drawer retaining strips in operable position when the said lock controlled drawer is closed.

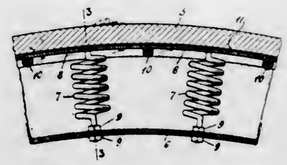
1,379,978. PIPE-WRENCH. FREDRICK M. HAMILTON, Dayton, Ohio. Filed June 26, 1919, Serial No. 306,810. Renewed Apr. 15, 1921. Serial No. 461,681. 1 Claim. (Cl. 81—92.)

A pipe wrench having a handle portion with an extended shank terminated in a fixed jaw, the said handle portion having a longitudinal groove on each side thereof, a movable jaw member having a handle portion having a shank portion, a portion of which extends over the sides of the handle portion of the fixed jaw member and is provided with guide ribs which extend into the grooves in the handle portion of the fixed jaw member, whereby the movable jaw and handle are guided relatively to the fixed jaw and handle, the shank portion of said movable jaw being



reduced in thickness from the handle portion thereof to the jaw to impart resiliency thereto and permit the movable jaw member to flex in the manipulation of the wrench, and means in the handle portion of the movable jaw engaging the handle portion of the fixed jaw and holding said parts in locked position.

1,379,979. RESILIENT TIRE. LOUIS HANAN and JOSEPH HANAN, Brooklyn, N. Y. Filed Dec. 10, 1920. Serial No. 429,651. 1 Claim. (Cl. 152—8.)



The combination of a rim, a tire casing carried thereby, plates pivotally connected directly with each other in series and located within said casing, said plates being transversely and longitudinally arched in conformity with the cross-sectional and circumferential curves of said casing and fitting snugly against the inner face thereof, a plurality of springs located at spaced intervals within said casing and connected at their outer ends with said plates by being screwed into the same at central points and having their inner ends projecting through said rim at points in radial alinement with the points of connection with said plates, said springs being of substantially uniform circular form and having no contact with any part of said casing and exerting outward tensions in radial directions whereby said casing is resiliently expanded and nuts located upon said inner ends of said springs upon opposite sides of said rim whereby said springs are rigidly fixed in position.

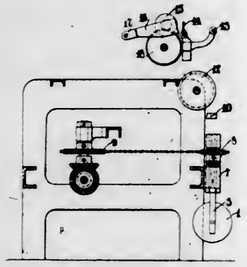
1,379,980. DRILL-STEM COUPLING. WILLIAM J. Harkness, Pittsburgh, Pa. Filed July 6, 1918. Serial No. 243,552. 3 Claims. (Cl. 287—104.)



1. In a device of the character described, an upper section, a lower section, said sections being connected by a tongue and slot joint, a sleeve slidable on one of said sec-

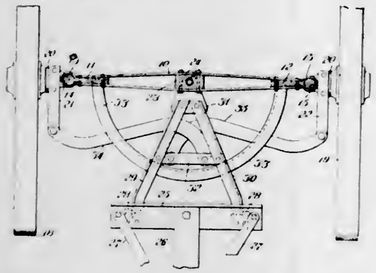
tions and adapted to fit snugly about said joint, said sleeve being split from one end so as to permit ready adjustment thereof, and means for securing the sleeve in position about the joint and for compressing said sleeve so as to force it into close contact with and about the joint.

1,379,981. PRODUCTION OF YARN, TWINE, CORD, AND THE LIKE BY SPINNING OR TWISTING FLAT STRIPS OF MATERIAL. JOHN SWANZY HARLEY, Waltham Abbey, England. Filed June 10, 1919. Serial No. 303,120. 1 Claim. (Cl. 28—21.)



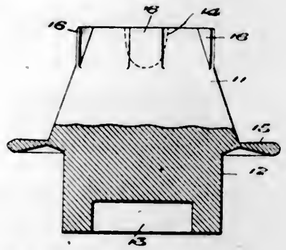
An apparatus for the production of yarn, twine, cord and the like comprising a bearing, a tubular member rotatably mounted in said bearing and provided with legs, a shaft carried by said legs and arranged perpendicularly to the axis of the tubular member, a bobbin carrying strip material mounted on said shaft, the interior of said tubular member having a restricted opening which merges into a bell mouth, through which the strip material is drawn from said bobbin, means for rotating said tubular member, means for drawing the strip material through said tubular member while said tubular member is rotating, and a die provided with an opening having a diameter approximately equal to the thickness of the cord to be formed, located between the tubular member and the last named means and designed to arrest the rotation of the strip and to compress the cord formed from the strip material.

1,379,982. DRAFT MEANS FOR VEHICLES. SHERMAN C. HARTSOCK, Moline, Ill., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill., a Corporation of Illinois. Filed Aug. 30, 1920. Serial No. 406,877. 1 Claim. (Cl. 280—103.)



A draft means for a vehicle comprising a transversely-extending axle, short axle members pivotally mounted on vertical axes thereon, carrying wheels journaled on said pivotally-mounted axle members, a plate pivotally mounted on a vertical axis on said transversely-extending axle, two bars rigidly mounted on said plate and diverging forwardly therefrom, a cross-bar pivotally mounted on the forward ends of said diverging bars, a tongue carried by said cross bar, a second cross bar connecting said diverging bars at about their middle points, an arc-shaped bar mounted on said transversely-extending axle for slidingly supporting said diverging bars, arms rigidly mounted on said pivotally mounted axle members and extending forwardly therefrom, and links pivotally connected to said arms at their outer ends and pivotally connected to said second-named cross-bar at their inner ends, said links being crossed at their inner end portions whereby the link at either side is connected to the opposite end portion of said second cross bar.

1,379,983. BLANK FOR FUSE-BODIES AND THE LIKE AND METHOD OF FORMING THE SAME. CARL G. HEIBY, JOHN BURKAM, DAVID E. LINDQUIST, FRED L. RIGGIN, EBENEZER W. ALLEN, and RICHARD LAU, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich., a Corporation of Michigan. Filed Jan. 17, 1918. Serial No. 212,227. 6 Claims. (Cl. 29—148.)

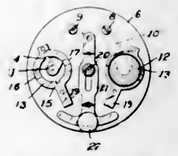


1. As a new article of manufacture, a blank for fuse bodies and the like, having a shank portion at one end, a truncated cone portion at the other end, and a noncontinuous chucking lug projecting laterally from said conical portion, which lug is adapted to be machined off after the finishing operations are completed.

1,379,984. WEAR-RESISTING SURFACE. WILLIAM E. HOKE, Washington, D. C. Filed June 4, 1919. Serial No. 301,760. 2 Claims. (Cl. 64—10.)

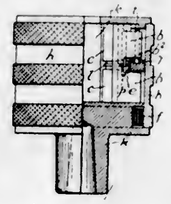
1. A pair of mechanically coöperating parts, such as a shaft and bearing, having smooth engaging parts, the parts in engagement having embedded in their surface portions particles of material harder than the body of the part.

1,379,985. AUTOMOBILE SIGNAL-SWITCH. ANSEL C. HULBERT, San Francisco, Calif., assignor to Edward C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and Van A. Shafer, trustees for The National Auto Signal Company. Filed Sept. 22, 1919. Serial No. 325,430. 1 Claim. (Cl. 200—167.)



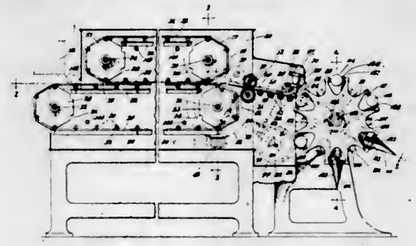
A switch for signals comprising a base having a pair of plates adapted to receive the bases of a pair of lamps, supplementary contacts to complete a circuit, on said lamps, a switch arm adapted to connect either or both of the lamp holding plates with an electric circuit and a cover plate for the switch base having a segmental slot to permit the switch to be moved to one side or the other or to be moved to connect both of the switch points and also having casings with transparent windows to cover both of the lamps.

1,379,986. CHUCK. IVAR HULTMAN, Saltsjöbaden, near Stockholm, Sweden. Filed Oct. 13, 1919. Serial No. 330,419. 2 Claims. (Cl. 279—72.)



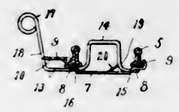
1. In a chuck, the combination of a circular body, a sleeve arranged to turn on the body and having cam faces on its inner side; jaws bearing on said cam faces, and mounted for movement toward and from the center of the body, and to turn therewith, each jaw having the face which is presented toward the center of the body provided with oppositely inclined diverging cam surfaces; work engaging rollers mounted in said faces of the jaws; and a spring arranged to turn the sleeve on the body in the required direction to cause its cam faces to move the jaws and rollers toward the center of the body.

1,379,987. PASTRY-SHAPING DEVICE. ISAAC ISRAEL, New York, N. Y., assignor of one-half to Success Cone Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1919. Serial No. 272,423. 11 Claims. (Cl. 107—58.)



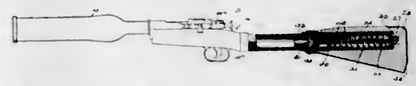
1. In a device of the character specified, in combination, a dough-heating member, means for heating the dough-heating member, means for depositing a strip of dough upon the dough-heating member, means for cutting the dough strip into predetermined lengths, a dough-shaping device, means for transferring the cut dough into the dough-shaping device and means for removing the shaped dough from the dough-shaping device.

1,379,988. TOY-RAILWAY-TRAIN STOP. HARRY C. IVES, Bridgeport, Conn., assignor to The Ives Manufacturing Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 18, 1919, Serial No. 338,841. Renewed Apr. 20, 1921. Serial No. 462,994. 4 Claims. (Cl. 246—203.)



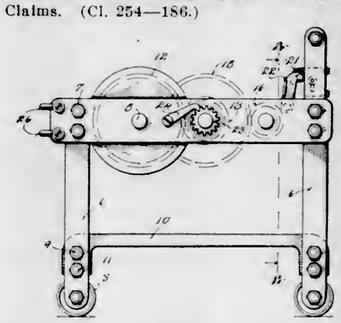
4. A toy railway train stop, comprising a base member adapted to be clamped around the rails of a train section, an operatable member adapted to be pivotally secured to said base member and including an extended portion that may be projected up in the path of travel of a train to stop the same, and means associated with said base member and operatable member whereby said operatable member may be locked in operative position to stop a train, or may be moved to inoperative position to allow a train to pass, said associated means including a spring extending from said base member and engaging said operatable member to cause a handle portion on said operable member to be drawn into a pocket in said base member.

1,379,989. RECOIL MECHANISM. STUART P. JOHNSON, Washington, D. C. Filed Mar. 12, 1920. Serial No. 365,334. 2 Claims. (Cl. 42—74.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



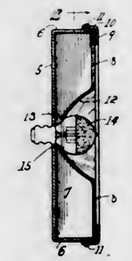
1. An ordnance device, including a discharger, and a stock for said discharger comprising a tubular member, a shoulder stock, a second tubular member secured in the stock for the reception of the first tubular member with a sliding fit, a piston connected to the second tubular member and having a sliding fit in the first tubular member, gas checks between the tubular members, gas checks between the first tubular member and the piston, and means for normally retaining the tubular members in extended position.

1,379,990. PORTABLE WINDLASS. ALBERT A. KELLER, Milwaukee, Wis. Filed Dec. 6, 1920. Serial No. 428,732. 3 Claims. (Cl. 254—186.)



1. In a windlass of the class described, a collapsible frame structure including a drum supporting frame and removable ground engaging legs, and a winding drum on the drum supporting frame.

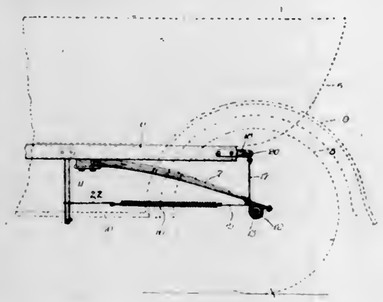
1,379,991. SHAVING-MIRROR. THOMAS SEYMOUR KNAP, Brookline, Mass. Filed Mar. 2, 1920. Serial No. 362,817. 1 Claim. (Cl. 240—4.)



In a device of the character described, a frame including a rear wall, side walls and end walls extending at

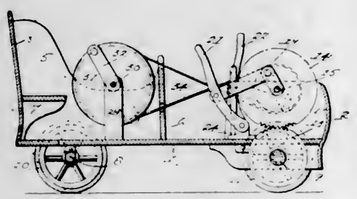
right angles to the rear wall, a reflecting surface having a central depressed portion, and apertured to receive an illuminating lamp, said reflecting surface adapted to engage the free edges of the end and side walls of the frame, and a frame having a portion thereof contacted with the reflecting surface for securing the reflecting surface to the first mentioned frame, and means for securing the frames together.

1,379,992. SPRING-CONTROLLER FOR VEHICLES. NORMAN R. KRAUSE, Racine, Wis., assignor of one-fourth to William F. Sawyer, Racine, Wis., and one-fourth to James A. Walsh, Indianapolis, Ind. Filed June 1, 1920. Serial No. 385,470. 5 Claims. (Cl. 267—10.)



3. The combination, in a vehicle, of an axle, a body, a spring therebetween, a snubber communicating with said body and looped about said axle, said snubber embodying guides and a tongue passing therebetween, and means connecting the tongue of said snubber to said vehicle to permit the movement of said snubber about said axle as said body raises and lowers by the action of said spring.

1,379,993. CHILD'S VEHICLE. JAN KUCINSKI, Chicago, Ill. Filed June 16, 1920. Serial No. 389,275. 1 Claim. (Cl. 208—38.)



In a toy, in combination, a wagon-like structure having a pair of wheels mounted on and revoluble with an axle thereon, a gear on said axle, a rotatable shaft mounted on said structure, a second gear fixed to said shaft and meshing with said first gear, a pulley wheel on said shaft, a second pulley wheel mounted on said structure and in driving connection with said first pulley wheel, a pair of crank arms on said shaft, and a pair of pivoted lever arms mounted on said structure, each lever arm being linked to one of said crank arms, whereby upon rotation of said first wheels said lever arms will be reciprocated and both of said pulley wheels will be caused to turn.

1,379,994. METHOD OF MAKING DRILLS OR THE LIKE. JOHN J. KUNZER, Chicago, Ill., assignor to Joseph T. Ryerson & Son, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1918. Serial No. 232,477. 13 Claims. (Cl. 76—108.)



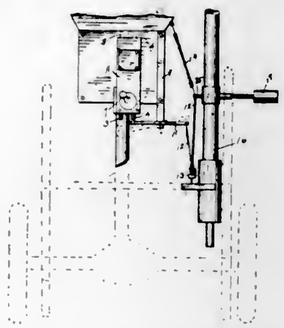
1. The improved method of making drills having longitudinal lubricating ducts, which consists in inserting a longitudinal duct forming strand in the body of the drill, and thereafter covering the strand with a metal filler.

1,379,995. METHOD OF MAKING DRILLS OR THE LIKE. JOHN J. KUNZER, Chicago, Ill., assignor to Joseph T. Ryerson & Son, Chicago, Ill., a Corporation of Illinois. Filed Aug. 7, 1918. Serial No. 248,724. 10 Claims. (Cl. 76—108.)



1. The improved method of making drills having longitudinal lubricating ducts, which consists in laying a duct forming strand in a longitudinal undercut groove of the drill bar, pressing a solid elongated deformable filler element in said groove and forming it against the undercut of said groove and on the strand, effecting relative longitudinal movement of the bar and strand during the forming operation, and finally withdrawing the duct forming strand.

1,379,996. ROAD-VEHICLE SIGNAL. OSCAR LEHMANN, Salt Lake City, Utah. Filed Mar. 29, 1920. Serial No. 369,484. 1 Claim. (Cl. 116—138.)

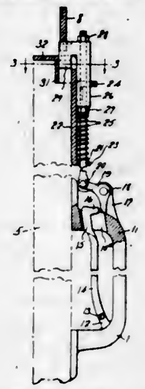


A signal for road vehicles comprising a longitudinally movable shaft of the reverse mechanism of an automobile, means to move said shaft longitudinally, a lever medially pivoted and with one end portion adjacent the end of said shaft; and an audible signal connected with the other end of said lever and adapted to sound when said shaft is moved longitudinally.

1,379,997. SAFETY-CATCH FOR CAR-DOORS. ALEXANDER H. MACMINN and WILFORD H. GRAHAM, Portland, Me. Filed June 26, 1920. Serial No. 391,909. 12 Claims. (Cl. 70—31.)

6. In combination, a closure, a track or rail having stop means, a latch slidably mounted upon the closure to engage with the stop means of the track or rail, independent

manually operated means on each side of the closure for disengaging the latch, one of said means working the latch

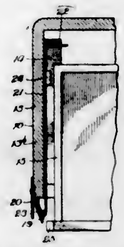


without moving the opposite means, the other of said means being key-actuated, and moving the first latch disengaging means to work the latch.

1,379,998. PREPARING FERRIC ARTICLES FOR METALLIC BATHS. JAMES H. MADDY, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,443. 1 Claim. (Cl. 204—1.)

The method of securing an effective continuous adhesion of lead coating to iron or steel articles in a molten bath, which consists in electro-plating a film of mercury upon the surface of the article before dipping the article in the molten bath.

1,379,999. DRAWER-LOCKING DEVICE. FERDINAND A. MARCINEK, Chicago, Ill., assignor to J. V. Meyering Trunk Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1920. Serial No. 419,809. 6 Claims. (Cl. 45—94.)



3. A drawer locking device for locking a tier of drawers, comprising two drawer retaining members, one adjacent each side of the tier of drawers and arranged to overlap parts of said drawers when in operative position, and movable from said operative position to a position out of the path of movement of the drawers, and actuating members connected to said drawer retaining members and having shouldered parts arranged in the path of the closing movement of one of said drawers, whereby said actuating members are moved back and therewith the drawer retaining members are swung in front of said parts of the drawers when said one drawer is moved to its fully closed position.

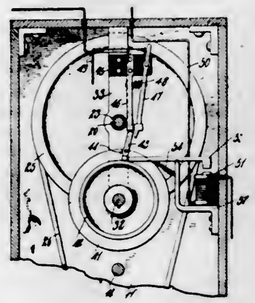
1,380,000. STUD FOR SPRING-PRESSURE FASTENERS OR BUTTONS. VICTOR MARENDOWSKI, Paris, France. Filed Sept. 12, 1917. Serial No. 190,933. 1 Claim. (Cl. 24—213.)

A stud for spring pressure buttons or fasteners having elongated heads composed of two lateral legs connected to the basis and curved in the middle in the form of an M with rounded parts for the purpose of increasing, by the



multiplicity of the points of flexibility, the working of the stud's spring, substantially as described, illustrated and set forth.

1,380,001. CAR-SIGN EXHIBITOR. HARRY A. MAYBERRY, McLeansboro, Ill. Filed Aug. 17, 1920. Serial No. 404,134. 4 Claims. (Cl. 40—57.)



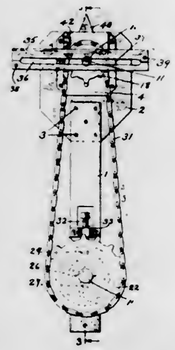
1. A street car sign exhibitor including a casing, a pair of rollers journaled therein, an endless sign sheet passing around the rollers, an electric motor, means between the motor and rollers to advance the sheet in either direction, fixed and pivoted contacts in circuit with the motor and the electrical system of the car, a disk rotated by the motor and normally at rest, a trip pivoted to the disk and normally holding the pivoted contact away from the fixed contact, a magnetically operated element in the path of the trip and in circuit with the motor and normally retaining the trip in a position to hold the pivoted contact against movement, and means for operating the magnetically operated element at predetermined times to allow the trip to move to permit the pivoted contact to engage the fixed contact to establish an electric circuit to the motor to advance the sign sheet, the pivoted contact being moved away from the fixed contact by the trip upon completion of one revolution of the disk and the magnetically operated element being returned to its normal position to lock the trip against movement.

1,380,002. WINDOW-REGULATOR. JOSEPH S. MESNOOH, Brooklyn, N. Y. Filed June 2, 1920. Serial No. 385,878. 5 Claims. (Cl. 268—4.)

2. A window operating apparatus comprising a chain constituting a driving member, a pin carried by said chain, a plate to be secured to a window, said plate being in sections hinged together so as to form a slot between them to receive said pin whereby the window may be detached from operative connection with the chain without removing the said plate from the window.

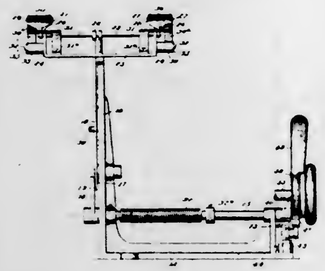
4. In a window operating apparatus, the combination of a chain to be operatively connected to a window, a frame, a pair of sprockets disposed on said frame for supporting said chain, a casing on said frame, a gear therein concentric with one of said sprockets, and rotating therewith, a second gear in said casing and in mesh with the first-

named gear, an operating handle for driving said second gear, a cam rotatable with said second gear, a slide actu-



ated by said cam, and an additional cam coöperating with said slide to lock said chain when the said operating handle is actuated.

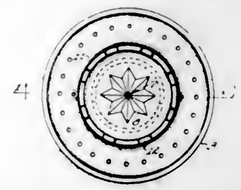
1,380,003. STOP-MOTION DEVICE. WILLIAM S. MILLS Trumbull, and HECTOR E. BISAILLON, Bridgeport, Conn. Filed May 3, 1920. Serial No. 378,406. 12 Claims. (Cl. 112—219.)



1. In a stop-motion device, the combination with a power shaft provided with a wheel to which a brake may be applied, of a tripping mechanism comprising a spring-actuated rock-shaft having a tappet, a bracket supporting said rock-shaft, a lever arranged to be operated by said tappet, a brake device operated by said lever and arranged to act on said wheel, a latch-lever mounted on said bracket and operatively connected with said rock-shaft, a spring-held tripping rock-shaft supported by said bracket and carrying a hooked holding latch normally engaging said latch-lever and holding the stop-motion device inactive, a tripping arm carried by said rock-shaft and provided with one or more narrow slits permitting free passage of a thread or threads, but adapted to be tripped by knots or lumps in the threads to release said latch from said latch-lever and set the stop-motion device into operation to apply said brake device to said wheel on said power shaft.

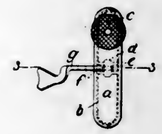
1,380,004. GAS-BURNER. ALFRED C. MOORK, Chicago, Ill. Filed Aug. 26, 1920. Serial No. 406,058. 4 Claims. (Cl. 158—116.)

4. A gas burner comprising a base having an inlet for gas and air and a serrated flange surrounding said inlet, the cover having a depending serrated flange outside of the serrated flange on the base, the serrations of the two flanges being in staggered relation, and a central depending serrated cone on said cover opposite said inlet, the



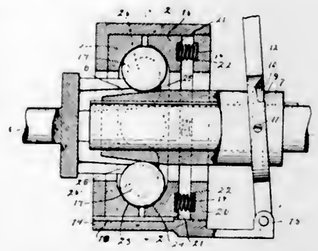
serrations on said cone being in staggered relation with the serrations on the flange of the base.

1,380,005. PLACQUET FOR EYEGLASSES. HARRY NEWBOLD, Herts, England. Filed June 21, 1920. Serial No. 390,642. 3 Claims. (Cl. 88—48.)



1. In an eyeglass mount, a placquet arm having a permanently T-shaped extremity, and a placquet having a spring plate on its rear face, the said plate being slotted and recessed to form a bearing for the T-shaped extremity of the placquet-arm, substantially as herein described.

1,380,006. VARIABLE-SPEED TRANSMISSION. EMANUEL NIELSEN, Racine, Wis., assignor to Hamilton-Beach Mfg. Co., Racine, Wis., a Corporation of Wisconsin. Filed Aug. 4, 1917. Serial No. 184,415. 11 Claims. (Cl. 74—34.)

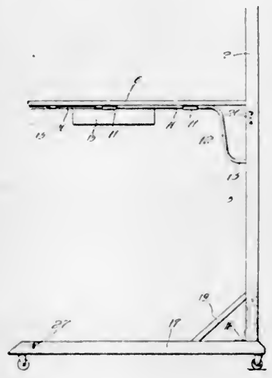


1. A variable speed transmission, comprising a driving member, a driven member, a plurality of spherical members adjacent said driving and driven members, and means including a ball race for causing the spherical members to engage different portions of the driving and driven members of relatively different diameters for changing the ratio of speed of rotation of the driven member with relation to the driving member and for maintaining the spherical members in working position, one of said parts being maintained against rotation.

1,380,007. SERVING-TABLE. FRANK A. OSTERBERG, Chicago, Ill. Filed Apr. 3, 1920. Serial No. 371,020. 2 Claims. (Cl. 45—111.)

1. A serving table comprising a standard in the form of a frame open in the center and having grooves extending

lengthwise of the upright members of the frame on the sides facing each other, a table of a size and shape such that it may lie flat within the opening in the standard, said leaf having at one end lateral projections entered into said grooves and permitting the leaf to swing into and out of said opening and to move bodily along said upright



members, brackets secured on the under side of said leaf and movable from positions in which they lie flat against the latter to positions in which they extend downwardly, and shoulders distributed along said uprights in position to engage said brackets when the latter extend downwardly from the leaf.

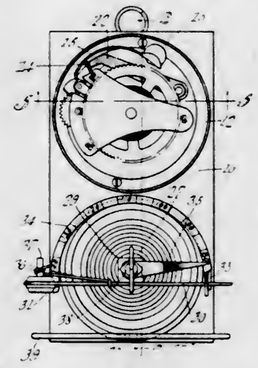
1,380,008. TIRE-CASING-REPAIR TOOL. HENRY J. OTTO, Evansville, Ind. Filed July 1, 1918. Serial No. 242,785. 3 Claims. (Cl. 30—9.)



1. A tool for stepping tire casings in repairing blow-outs, comprising a bit provided upon its end with a flat blade tapering in thickness outwardly from the bit and terminating at its outer edge portion in a knife edge, said flat blade having upon its reduced end an enlarged shoe of greater length than the width of the blade and merging at opposite ends into the knife edges of the blade.

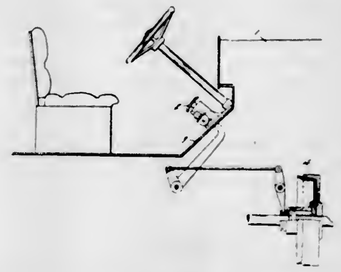
1,380,009. HEAT-ALARM. CHARLES G. OVERMYER, Hartford City, Ind. Filed May 29, 1920. Serial No. 385,288. 4 Claims. (Cl. 116—102.)

1. In a heat alarm, a base, a sounding device supported by the base, a thermostat supported on the base, a pivotal means supported under the base and having connection with the thermostat and sounding device, a controlling arm having pivotal connection with the base, a keeper carried by the base, said keeper having a slot to accommodate a portion of the controlling arm, a shoulder



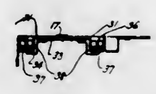
formed in one wall of the slot, and a coiled spring for normally forcing the arm under the shoulder.

1,380,010. ANTITHEFT DEVICE FOR AUTOMOBILES. BRADY PARMENTER, Birmingham, Ala., assignor to A. L. Atwood, Birmingham, Ala. Filed July 21, 1919. Serial No. 312,302. 1 Claim. (Cl. 70—128.)



A device for locking a foot pedal of an automobile comprising an elongated base portion adapted to be disposed at one side of the pedal to be locked, and provided with raised hinge lugs rounded overhead, a sleeve for the pedal comprising hinge members adapted to embrace the clutch pedal, key controlled lock means to fasten said sleeve sections in position about the pedal, a lateral offset on one of the sleeve members overlying the rounded hinge lugs on said base and having a hinge lug adapted to be interposed between the base lugs, a pivot to connect said lugs together with the curved abutting faces of the lugs and shoulders concentric with the pivot, said device when applied to the pedal being adapted to prevent its depression to change its operating position.

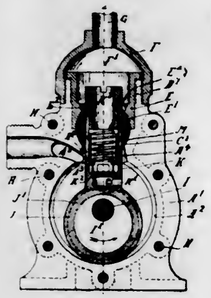
1,380,011. GARBAGE-BOX. FRANK PELC and STEFANIA PELC, McDonald, Pa. Filed Apr. 30, 1919. Serial No. 293,677. 1 Claim. (Cl. 220—41.)



In a garbage box, the combination with a rectangular container, having imperforate side and bottom walls, a

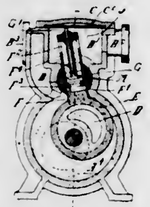
cover removably engaged therewith, said cover having a slanting top and containing openings therethrough, lids slidably engaged at the lower side of said slanting top adapted to cover said openings, means for operating said lids, pairs of guides for said lids secured to the lower side of said cover, transversely thereof and bars attached to the lower side of said lids having upturned and re-entrantly turned portions, and recessed rollers mounted in brackets adapted to receive the ends of said bars, substantially as described and for the purpose set forth.

1,380,012. ROTARY PUMP. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Sept. 22, 1920. Serial No. 411,878. 10 Claims. (Cl. 103—44.)



1. A rotary pump having a cylinder and a globular bearing for a swivel block in combination with a globular swivel block formed with a cylindrical bearing for a slide and an eccentric ring piston having a cylindrical slide extension working in the bearing in the swivel block.

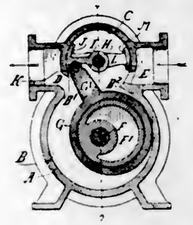
1,380,013. ROTARY PUMP. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Sept. 25, 1920. Serial No. 412,821. 3 Claims. (Cl. 230—30.)



1. In a rotary pump comprising a cylinder, an eccentric ring piston and a slide extending from the piston through a swivel block, a discharge passage formed through the slide, a non-return valve for closing said passage, moving with the slide and arranged to open automatically to permit the fluid to pass from the pump into the receiver and a valve closing stop supported on a fixed position of the casing and located to contact with and close the valve at the end of each rotative movement of the piston.

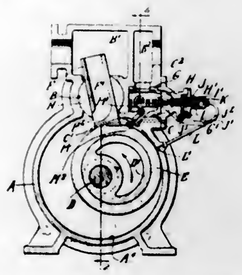
1,380,014. ROTARY PUMP. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Sept. 25, 1920. Serial No. 412,822. 2 Claims. (Cl. 230—30.)

1. In a rotary pump having a cylinder with admission and exhaust ports and a bearing surface in the form of a section of a cylinder formed in a chamber connecting said ports, a rotary eccentric ring piston having a partition blade extending from it, a rock lever pivoted in the center of the bearing, a shoe movable in the cylindrical bearing and attached to the rock lever and an articulated connection between the shoe and the blade extending from the piston and serving as a partition between the ports of the pump, the novel feature which consists in forming



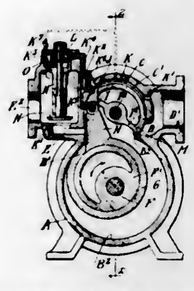
the inlet port in the cylindrical bearing surface and combining therewith an inlet valve actuated by the rock lever and having its movements timed as described so as to close the port through that portion of the cycle when the piston is not in contact with the bore of the cylinder.

1,380,015. ROTARY PUMP. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Oct. 6, 1920. Serial No. 415,141. 5 Claims. (Cl. 230—30.)



1. In a rotary pump having a cylinder a rotating eccentric ring piston and a slide extending from said piston through a swivel block and an admission port, a delivery passage in the cylinder casing having a grid valve seat, a grid valve working on said seat to open and close the delivery passage a plunger secured to the valve stem, a cylinder for said plunger connected to the pump cylinder at or near the delivery port and means for closing the valve lying in the path of the pump piston and contacting with it at the end of its delivery cycle.

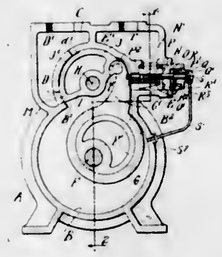
1,380,016. ROTARY COMPRESSOR. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Oct. 6, 1920. Serial No. 415,144. 5 Claims. (Cl. 230—30.)



1. In a rotary compressor having a rotary eccentric ring piston provided with an extension forming a division

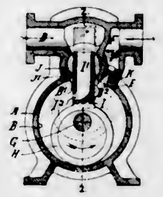
between the admission and discharge sides of the cylinder, admission and discharge ports in communication with the pump cylinder, a valve for closing the discharge port, a cylinder and piston for actuating said valve to close it, a port leading from the discharge side of the compressor to said cylinder and a valve actuated by the moving parts of the compressor normally closing said port but opening it near the end of the compression cycle of the piston.

1,380,017. ROTARY PUMP. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Oct. 6, 1920. Serial No. 415,146. 5 Claims. (Cl. 230—30.)



1. In a rotary compressor having an eccentric ring piston provided with an extension forming a partition between the admission and delivery ports of the compressor cylinder, a valve for closing the delivery port and a valve actuating rod extending into the compressor chamber when the valve is open, at a point lying in the path of the piston extension during the completion of a compression cycle of the piston and so as to be actuated thereby to close the valve.

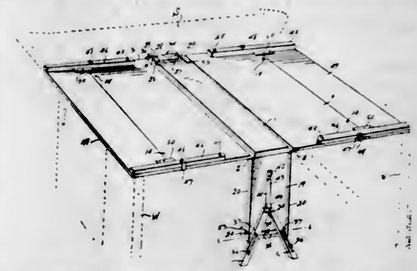
1,380,018. ROTARY COMPRESSOR. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Oct. 6, 1920. Serial No. 415,147. 4 Claims. (Cl. 230—30.)



1. In combination with a compressor a delivery chamber, a liquid retaining chamber in said delivery chamber and one or more restricted valveless delivery ports opening from the compressor cylinder into said liquid retaining chamber said ports being so proportioned that while they will permit the compressed gas to pass through them into the receiver at high speed they will offer high resistance to a back flow of liquid from the the liquid containing chamber.

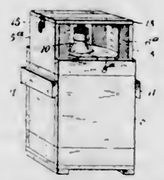
1,380,019. LUNCH KIT. WASHINGTON M. POTTER, Freedom, Pa. Filed Sept. 1. 1920. Serial No. 407,437. 11 Claims. (Cl. 190—12.)

1. A kit of the class described comprising a bottom panel, side panels hingedly connected thereto, end panels coacting therewith when the side panels are folded, a removable top panel, and a supporting member slidably supported by an end portion of the bottom panel and movable longitudinally thereof, said bottom panel being provided with means coacting with the supporting member



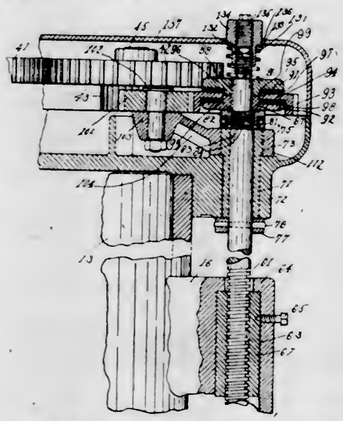
for limiting the movement of said supporting member, said supporting member when in one position extending beyond the adjacent end of the bottom panel.

1,380,020. CARBOY-PACKAGE. CLARENCE W. RIEGEL, Easton, Pa., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Nov. 22. 1920. Serial No. 425,622. 2 Claims. (Cl. 217—52.)



1. A carboy package comprising a container for a carboy and provided in its top with an aperture through which the neck of the carboy is arranged to protrude, reinforcing members extending lengthwise of said container and continued upwardly beyond its top, members secured to said reinforcing members to form upward continuations of the upright walls of said container and a cover extending over the ends of said reinforcing members in spaced, parallel relation to the top of said container.

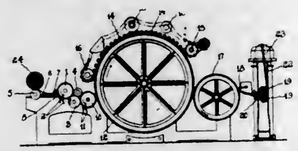
1,380,021. RAISING AND LOWERING MEANS IN METAL-WORKING MACHINERY. ALBERT E. ROBINSON, Cincinnati, and HERMAN W. SCHATZ, Norwood, Ohio. Filed Sept. 10, 1917. Serial No. 190,657. 12 Claims. (Cl. 77—28.)



1. In a metal working machine, the combination of a support, a part adjustable to elevation thereon, and means for adjusting said part to elevation comprising friction

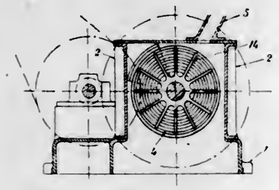
transmitting means arranged to transmit normal loads and to yield to abnormal loads, and means for supporting said part independent of the friction contact of said friction transmitting means during adjustments of said part.

1,380,022. CARDING-MACHINE. ELWIN H. ROONEY, Providence, R. I., assignor to Beirne Gordon, Jr., Utica, N. Y. Filed June 18, 1919. Serial No. 305,098. 2 Claims. (Cl. 19—3.)



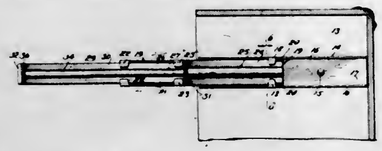
1. In a carding machine the combination of a flat card having a main cylinder and a plurality of licker-in mechanisms associated therewith and arranged in series, said licker-in mechanisms comprising cylinders rotatable in a corresponding direction, and mote knives co-acting with the cylinders, a carrier roll interposed between the respective licker-in cylinders and rotatable reversely with relation thereto to transfer the stock from the advance cylinder to the second licker-in cylinder, a fancy roll positioned above the carrier roll and operating upon the stock thereon and a delivery mechanism adapted to feed a lap to the advance licker-in cylinder, said delivery mechanism comprising a feed plate having a nosing portion in close proximity to the periphery of the advance licker-in whereby the stock is received upon the advance licker-in cylinder with a combing section, substantially as described.

1,380,023. NUT-CRACKING MACHINE. PHILIPPE ROUSSILLON, Argenteuil, France, assignor to Societe Anonyme Des Etablissements, A. Oller, Clermont-Ferrand, France. Filed Mar. 6, 1920. Serial No. 363,772. 4 Claims. (Cl. 146—3.)



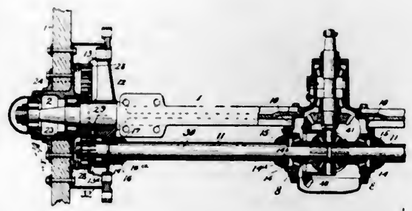
1. A machine for breaking the shells of hard-shelled nuts comprising a fixed member and a rotatable member adapted to rotate about a horizontal axis, said members having opposite coöperating faces and being so arranged that the width of the cracking chamber left between said faces decreases progressively toward the said axis, a helical projection on the face of the fixed member, means for feeding nuts to the top of the periphery of said cracking chamber and means for rotating the rotatable member.

1,380,024. WARDROBE-TRUNK. GEORGE SACHNOFF, Brooklyn, N. Y. Filed Jan. 8, 1921. Serial No. 435,785. 2 Claims. (Cl. 211—16.)



1. In combination with a vertical trunk body having an open front, garment supporting devices therefor comprising guides rigidly secured to the inner facing of opposite sides of said body and having upper and lower flanges and, at an intermediate point in their length, upper and lower guide fingers bent in a direction toward each other, slides fitted within said guides behind and retained by said guide fingers having laterally projecting arms at their rear ends, upper and lower inwardly projecting flanges at the edges of their forward portions in advance of said guide fingers and slide fingers at the ends of said flanges extending toward each other and spaced inwardly from the back of the slides, and a garment hanger supporting slidable frame fitted at its ends within said slides behind and retained by said slide fingers and having a back member in rear of the rear of the rear slide fingers and a front member at the front of the front slide fingers, said frame on a partial forward movement thereof being adapted to engage said slides and then move forwardly with them to without the trunk section and on a partial rearward movement thereof to engage said slides and then move rearwardly with them to concealed position within the trunk section, and said arms on the rear ends of said slides being adapted on the full forward movement of the slides to strike the said guide fingers and arrest the slides.

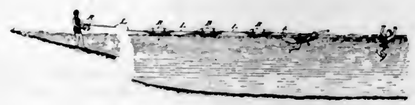
1,380,025. REAR AXLE. VIGGO V. TORBENSEN, Cleveland, Ohio, assignor to The Torbensen Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 5, 1916. Serial No. 76,241. 19 Claims. (Cl. 74—7.)



4. In a driving axle, the combination of an axle member having at its ends spindles for the mounting of the road wheels, axle plates secured to the axle member near its ends, a differential gear casing rigidly fixed to said axle near its middle, and two casing tubes which at their inner ends are flexibly connected with the differential gear casing and at their outer ends are similarly connected with the axle plates.

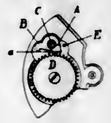
13. In a transmission mechanism for vehicles, the combination of an axle, wheels on said axle, a divided counter shaft provided with a differential and having means engaging said wheels for driving the same, and a casing for said counter shaft wholly supported by said axle, said casing being flexible so as to provide for elastic displacement of said axle.

1,380,026. LIFE-SAVING APPARATUS. HENRY W. WALTERS, Jacksonville, Fla., assignor of one-half to John H. Mackey, Jacksonville, Fla. Filed Jan. 26, 1921. Serial No. 439,999. 7 Claims. (Cl. 9—14.)



1. In a life saving buoy, a cylindrical body having pointed ends, a rope passing from end to end on the outside of the buoy, and means at either end of the body for facilitating connection of a life line thereto.

1,380,027. CLICK OR DETENT. SYLVESTER ALEXANDER WATKINS, London, England, assignor to Thomas Townsend Russell, Liverpool, England. Filed Oct. 19, 1920. Serial No. 418,083. 8 Claims. (Cl. 58—83.)



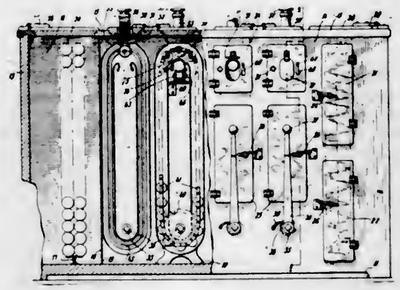
1. A click or detent comprising a rocking beam, a pivot for said rocking beam, a detent arm and a tail arm on said beam, both of greater radial length from said pivot than the distance between said pivot and the wheel to be controlled, and means to maintain the end of at least one of said arms in contact with the wheel.

1,380,028. AUTOMATIC STOP FOR SOUND-REPRODUCING MACHINES. CHARLES P. WETMORE, Milwaukee, Wis. Filed Mar. 24, 1919. Serial No. 284,777. 7 Claims. (Cl. 192—116.)



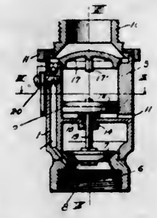
1. In an automatic stop for sound reproducing machines, the combination of a brake wheel adapted to engage with the turn table, a reciprocatory brake controlling member movable into and out of position to engage with a part of the brake wheel and set the brake, a frictional actuating connection with the stylus carrying arm tending to shift said member out of position to set the brake, and means operated by the brake wheel and adapted to shift said member periodically in the opposite direction into position to set the brake.

1,380,029. APPARATUS FOR DISPENSING CONGEALED FOODS AND DESSERTS. FRANK A. WHITE, Cleveland, Ohio. Filed Feb. 28, 1919. Serial No. 279,819. 10 Claims. (Cl. 211—8.)



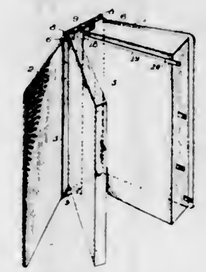
1. A cabinet comprising end storage and central service compartments, movable carriers arranged within the latter compartments, means for causing said carriers to move circuitously therein, a conveyer, means for delivering articles from said carriers to said conveyer, and means for dispensing portions of said articles therefrom, said means comprising a cutting element operable from outside the cabinet.

1,380,030. PRESSURE CUT-OFF. TILMAN WHITE, Berkeley, Calif., assignor of one-third to Raymond Salisbury and one-third to E. F. Peckham, Berkeley, Calif., and one-third to Paul E. Welthanse, San Francisco, Calif. Filed Aug. 21, 1917. Serial No. 187,498. 2 Claims. (Cl. 137—139.)



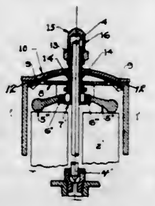
1. A pressure cut off including a casing having a passage therethrough, a main valve in said passage; a cylinder concentrically spaced within said passage behind said valve and joined to said casing by webs; a by-pass in one of said webs open ahead of said valve; a control valve in said passage open to said cylinder and to said by-pass and to said passage respectively at will; a piston in said cylinder connected to said main valve, and a restricted vent to the atmosphere between said piston and said main valve.

1,380,031. ADJUSTABLE BOOKMARK. SCOTT M. ABBOTT, Philadelphia, Pa. Filed Oct. 13, 1919. Serial No. 330,433. 11 Claims. (Cl. 281—42.)



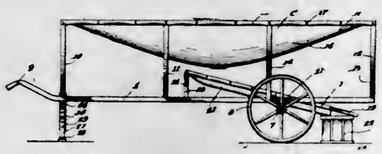
1. A book-marker, comprising the combination of members adapted to be attached to the covers of a book, with a resilient readily flexible member extending between said first members, and a member removably supported by said resilient member and adapted to be positioned between the leaves of a book.

1,380,032. CARBURETER FLOAT MECHANISM. RAYMOND M. ANDERSON, Detroit, Mich., assignor to George M. Holley, Detroit, Mich. Filed Jan. 12, 1920. Serial No. 351,014. 8 Claims. (Cl. 137—104.)



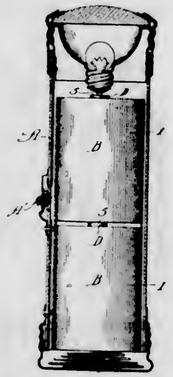
1. In a float mechanism for carbureters a needle, counter weight levers engaging with said needle, a stamping serving as a fulcrum plate, a cover, a piece serving as the needle guide which locks the fulcrum plate to the cover for the purpose described.

1,380,033. FRUIT RECEIVING AND CONVEYING DEVICE. CHANDLER BAGNALL, Battle Creek, Mich. Filed Apr. 5, 1920. Serial No. 371,511. 4 Claims. (Cl. 56—329.)



1. A fruit picking and packing device comprising a frame, supporting wheels arranged in one end of the frame, an adjustable supporting leg carried by the opposite end of the frame, a plurality of equi-distantly spaced bows carried by the frame, a superposed supporting frame carried by the bows, a flexible fruit receiving member having inclined sides carried by the superposed frame, the flexible body having a centrally positioned opening therein, an inclined frame carried by the first mentioned frame arranged at an angle thereto, and a flexible body carried by the inclined frame.

1,380,034. DRY CELL. WILLIAM BALDERSTON, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Dec. 3, 1919. Serial No. 342,089. 2 Claims. (Cl. 204—34.)

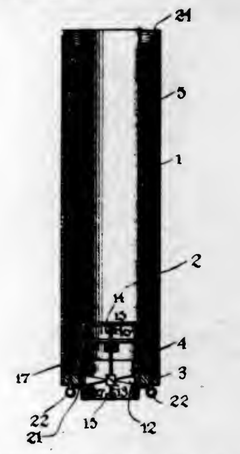


1. A dry cell comprising a container having sealing material closing the upper end thereof, a core of depolarizing mixture in said container, electrolyte between said core and container, and a carbon electrode embedded in said core and extending through said sealing material and having a naked carbon end surface exposed as an abutment contact above said sealing material.

1,380,035. PROCESS OF SEPARATING THE POTASSIUM CONTENT OF POTASSIUM-CONTAINING LIQUORS. HARRY P. BASSETT, Cynthiana, Ky. Filed June 12, 1920. Serial No. 388,662. 14 Claims. (Cl. 23—22.)

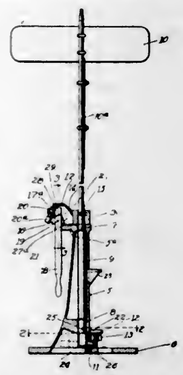
1. A process of separating the potassium content of a liquid containing potassium carbonate which consists in adding thereto sodium sulfate in such amount that the sodium sulfate will be present in the resulting solution in at least molecular proportions with respect to the potassium carbonate, removing by evaporation and crystallization sodium carbonate from the hot solution, thereby promoting the formation of potassium sulfate and cooling and, when the solution is cooled, separating the resulting potassium sulfate by crystallization from the cooled solution.

1,380,036. AIR-DRAFT MOTOR. GOLDEN BERRY, Checotah, Okla. Filed June 3, 1920. Serial No. 386,346. 8 Claims. (Cl. 253—38.)



1. An air-operated appliance, comprising a case, an air motor reversible from an operative position for substantial concealment, and a draft tube collapsible into the case, to render the appliance compact and portable.

1,380,037. SWITCH-STAND. CHARLES W. BREED, Western Springs, Ill. Filed June 7, 1920. Serial No. 387,104. 12 Claims. (Cl. 246—393.)



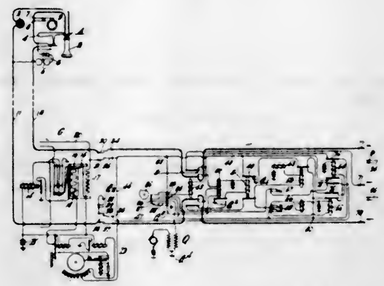
12. In a switch stand comprising a base member, a signal mast mounted thereon, a crank integral with said mast, a crank pin thereon, a switch operating connecting rod thereon, an operating lever connected to said mast, and a comparatively heavy lug cast integral with said base member slightly above the bottom thereof adapted to prevent disassembly of said connecting rod from said crank pin when the crank is in operative position.

1,380,038. SEALING MECHANISM. WINFRED M. BROOKS, West Orange, N. J. Filed Dec. 11, 1919. Serial No. 344,035. 4 Claims. (Cl. 292—317.)



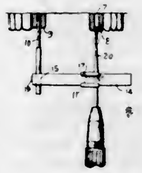
1. A shackle seal blank comprising: a sheet metal strip having complementary notches formed at opposite ends and in the opposite longitudinal edges of the strip, said blank being bent back upon itself to form a loop and the free ends thereof being crossed and the notches interlocked to prevent longitudinal displacement of the two ends of the strip, and a lug projecting from one of the side edges only of the strip to be folded over the interlocked parts.

1,380,039. AUTOMATIC TELEPHONE SYSTEM. WILLIAM A. CHAPIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 28, 1916. Serial No. 128,228. 28 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic selector switch having directively controlled primary movement for selecting groups of lines and automatic secondary movement to select an idle line in a group, means for causing the primary movement of said switch and for initiating the secondary movement, and means for continuing the secondary movement whether all the lines in the group selected in the primary movement are busy or not.

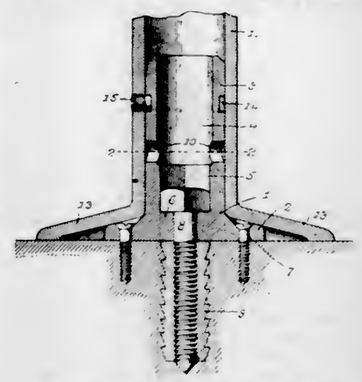
1,380,040. DENTAL ATTACHMENT. HERMAN E. S. CHAYES, New York, N. Y. Filed Oct. 14, 1919. Serial No. 330,650. 3 Claims. (Cl. 32—10.)



1. In a device for producing parallel bores in dental bridgework, a guide pin for engagement in a bore in one of the bridge abutments, a spacer bar slidably adjustable longitudinally on said guide pin, and a cutting tool guide slidably adjustable longitudinally on the spacer bar to the plane of the second bridge abutment and provided with a guide passage disposed parallel to the guide pin for the reception of a cutting tool.

1,380,041. FLOOR-FASTENING FOR STORE-STOOLS. FRED WESLEY COOK, North Chicago, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed Dec. 23, 1920. Serial No. 432,703. 5 Claims. (Cl. 155—134.)

1. In a stool attaching means, the combination of an attaching head formed with a central bore and having a bottom flange, means arranged in said central bore for attaching said head to a floor, a hollow stool pedestal fitted over said attaching head and having an expanded base portion fitting over and concealing the base of the attaching head, and means for securing the attaching head and pedestal together.

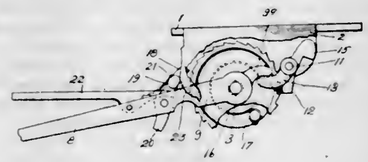


1,380,042. TABLE OR STAND. FRED WESLEY COOK, North Chicago, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1921. Serial No. 442,345. 3 Claims. (Cl. 45—48.)



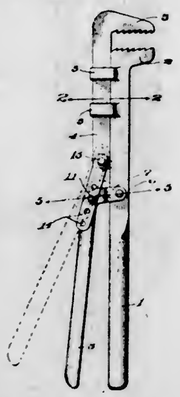
1. In a table or the like, the combination of a pair of opposed legs formed with orificed lugs, a horizontal brace having enlarged hollow ends formed with orifices for the passage of said lugs, and an attaching bolt passing through an end orifice in said brace end and through the orifices of the aforesaid lugs and having a fixed head at one end and a clamping nut at the other end.

1,380,043. BRAKE MECHANISM. CHARLES C. CREWSON, Kansas City, Mo. Filed Nov. 22, 1919. Serial No. 340,025. 5 Claims. (Cl. 74—116.)



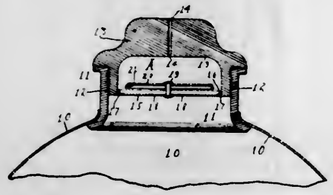
1. A brake mechanism, comprising a staff, a lever and mechanism operable by the lever to turn the staff for brake application purposes, and yieldingly-actuated means to prevent reverse operation of the staff, and reversible to free the staff through extreme movement of the lever in either direction.

1,380,044. WRENCH. FRANKLIN E. DAVIS, Van Norman, Mont. Filed Jan. 14, 1919. Serial No. 271,073. 2 Claims. (Cl. 81—88.)



1. In a wrench, the combination of a handle, a jaw rigidly carried thereby, a jaw movable toward and from said rigid jaw, a lever carried by said handle, and means for adjustment of the effective throw of said movable jaw toward and from said rigid jaw and for imparting movement of said lever element to said movable jaw element, comprising a pin rigid with one of said elements and a relatively long flat spring link pivoted at one end portion to the other element, said link provided with a plurality of perforations, and adapted to be flexed laterally to dispose the said pin in any one of the said perforations to act as a pivotal connection at the other end portion of the link.

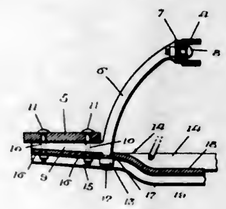
1,380,045. NON-LEAK CAP FOR GASOLENE-TANKS. JOHN DOLEZAL, Guernsey, Iowa. Filed Nov. 20, 1919. Serial No. 339,457. 1 Claim. (Cl. 220—44.)



In a device of the class described adapted to be secured in the bottom of the recess in a cap for a fuel tank the cap being provided with a vent opening, a disk adapted to extend across the bottom of said recess having a plurality of openings therein, a second imperforate disk of lesser diameter than said first spaced above said first disk, the outer edge of said second disk being curved downwardly and spaced from the walls of said cap, a spacer collar interposed between the upper surface of the first disk and the lower surface of the second disk, and a rivet extended through said spacer collar and said disks for holding them in position, the parts being so arranged that ventilation will be permitted into the fuel tank for fuel will not be able to pass out through said vent opening.

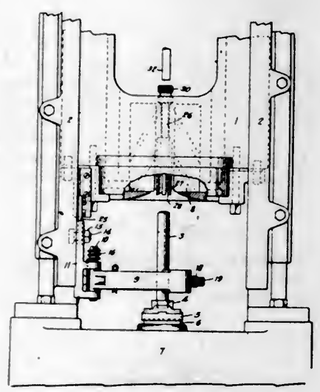
1,380,046. RUNNING-BOARD BRACE. ROBERT O. DUTCHER and GEORGE HOPE, Morocco, Ind.; said Hope assignor to said Dutcher. Filed Jan. 29, 1920. Serial No. 354,780. 3 Claims. (Cl. 280—163.)

1. A running board bracing structure comprising a pair of braces having arms for supporting running boards, a tie bar having portions to bear upwardly against said arms in overlapping relation, and said braces having means for



engaging said tie bar and clamping same upwardly against said arms.

1,380,047. BOLT-MAKING MACHINE. JAMES A. EDEN, Jr., Springfield, Mass., assignor to Walter H. Foster, New York, N. Y. Filed Dec. 18, 1919. Serial No. 345,708. 16 Claims. (Cl. 10—107).



1. A machine for operating on bolt blanks or the like including in combination a chuck having a vertical axis and adapted to engage the blank and means for centering the blank at a point between the chuck and the cutter-head, said means adapted to be moved to one position in which it embraces a blank and to a second position in which it centers the blank in an upright position between the chuck and the cutter-head and permits it to move vertically into engagement with the chuck.

1,380,048. DEEP-WELL PUMP. BERT R. EMRICK and JOHN KATING PORTER, Chauk, Upper Burma, India. Filed Apr. 15, 1919. Serial No. 290,137. 1 Claim. (Cl. 103—80.)

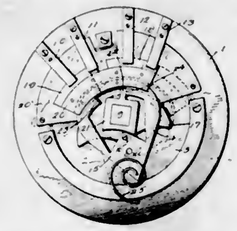
A deep well pump comprising a bore hole lining, a head and stuffing box at the top of said lining, a delivery tube passing through said stuffing box, a reciprocating pump barrel attached to said tubing by a coupling and provided with a head, a delivery valve and cage fixed to said coupling, a tubular pump plunger provided with a collar which coöperates with said head, said plunger being arranged in said barrel and passing through said head and having a case and suction valve fixed to its upper end, its

lower end being secured to the head of a perforated anchor tube, springs arranged between said anchor tube and



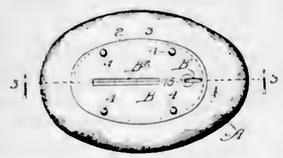
barrel, a gas checking pipe suspended in said anchor tube and extending below the perforations in the same, and guide blocks arranged on the tubing to prevent vibration.

1,380,049. THERMALLY-CONTROLLED ELECTRIC SWITCH. RICHARD L. FEARN, Jr., Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Feb. 12, 1920. Serial No. 358,251. 6 Claims. (Cl. 200—124.)



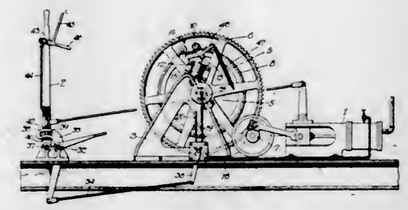
1. A resettable, thermally controlled switch comprising a base, a casing carried by the base, a fusible alloy arranged in said casing, said alloy being solid at normal temperature, a contact member arranged on said base, releasable means for maintaining said contact member in one position, and means for moving said contact member to a second position, said releasable means being adapted to release said contact member when said alloy fuses.

1,380,050. SAVINGS-BANK. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1920. Serial No. 412,984. 8 Claims. (Cl. 232—4.)



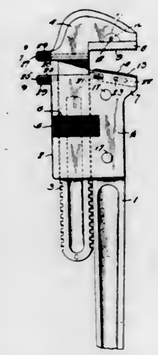
1. In a device of the character set forth, the combination with a wall provided with a coin-slot, of a plurality of substantially flat guard-plates disposed adjacent the inner surface of said wall, and a sheet metal spring-plate equipped with integral spring-arms interlockingly engaging and normally holding said guard-plates in the slot-closing position.

1,380,051. STEAM-SHOVEL. JOSEPH FLETCHER, Bellwood, Ill., assignor of one-half to James A. Sackley Company, Chicago, Ill., a Corporation of Illinois. Filed June 4, 1920. Serial No. 386,542. 5 Claims. (Cl. 74—107.)



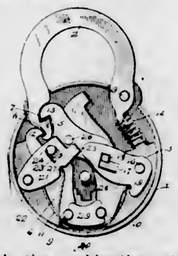
1. In a steam shovel, the combination of a hoist drum, a steam engine, a throttle lever therefor, gearing connecting said engine and drum, comprising a gear which normally is rotatable relatively to said hoist drum, a clutch for connecting said hoist drum and gear, and means for operating said clutch, said clutch operating means comprising a steam ram mounted on one of said parts, steam connections thereto comprising a valve for controlling the admission of steam to said ram and its exhaust therefrom, and means for operating said valve comprising a lever pivoted upon the throttle lever of the engine having an arm which will be in such close proximity to the hand grip of said throttle lever when in position corresponding to position of said valve to admit steam to the clutch operating ram that both said throttle lever and said valve operating lever may be grasped and operated with one hand, substantially as described.

1,380,052. WRENCH. OSCAR R. FOWBLE, Huntington, W. Va. Filed June 21, 1920. Serial No. 390,409. 1 Claim. (Cl. 81—167.)



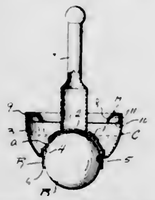
A wrench comprising a handle bar or main shank having an oblique end portion forming a guide surface and provided with a socketed lug projecting beyond the line of said guide surface at the inner end thereof, a sleeve having side plates secured to the handle bar with portions projecting at opposite sides beyond said guide surface and lug and forming therewith a guideway of somewhat greater depth than said lug, a movable jaw having a shank slidable in the sleeve, means for adjusting the same, a supplemental jaw slidably mounted in the guideway and in guided connection with said guide surface and side plates, said jaw having at its inner end a reduced extension movable between the side plates and the outer side of the lug, and a coiled spring secured at one end in the socket of the lug and bearing at its opposite end against the inner end of the supplemental jaw to normally force said jaw outward.

1,380,053. PADLOCK. SAMUEL R. FRAIM, Lancaster, Pa., assignor to The E. T. Fraim Lock Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1920. Serial No. 429,690. 4 Claims. (Cl. 70—105.)



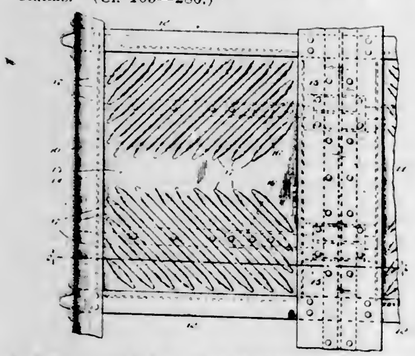
3. In a padlock, the combination with the case thereof, of a shackle, pivoted tumblers arranged to engage opposite faces of the nose of the shackle, a tumbler locking dog pivotally mounted outside of the tumblers, and a detent which engages the locked tumbler and holds the same in shackle-releasing position, said detent when in functioning position being in the path of the nose of the shackle so as to be tripped thereby in the closing movement thereof.

1,380,054. CASTER. JACOB J. FRIEND, Everett, Mass. Filed Oct. 19, 1920. Serial No. 418,076. 3 Claims. (Cl. 43—109.)



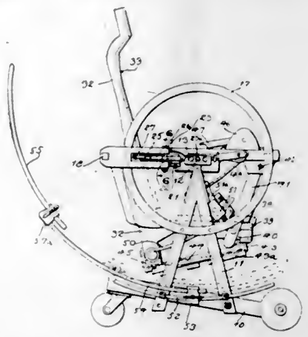
1. A caster comprising a bowl having its bottom face concave, a shank extending upwardly from the central portion of the bottom of the bowl, the outer marginal portion of the bowl being defined by a depending wall, a ball extending within the bowl, and a retaining ring telescoping within and engageable with the depending wall of the bowl and coacting with the ball to hold the ball in applied position.

1,380,055. REINFORCED DOOR FOR RAILWAY-CARS OF THE DUMPING TYPE. GARTH G. GILPIN, Riverside, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Aug. 30, 1919. Serial No. 320,792. 7 Claims. (Cl. 105—280.)



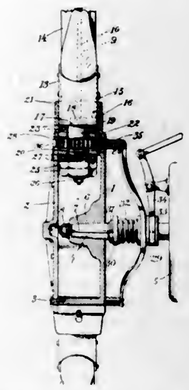
1. A sheet metal door for a railway car of the dumping type formed with a plurality of parallel corrugations which extend diagonally across the door in the general direction of movement of the load when discharging.

1,380,056. INVALID-CHAIR. GEORGE D. GOODWIN, McRae, Mont. Filed Jan. 31, 1921. Serial No. 441,319. 9 Claims. (Cl. 155—29.)



1. In a chair, spaced supports, side members pivotally mounted thereon, a back member embodying uprights pivotally connected intermediate their ends to said side members, supporting blocks secured to said uprights and having concaved upper faces, a seat support pivotally connected to said blocks, a flexible cover connected to the back member and extending over said blocks and seat support and links pivotally connecting the seat support and said side members.

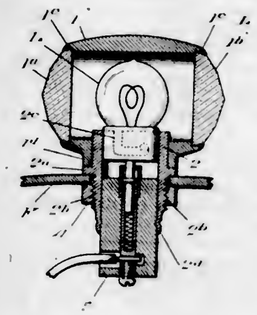
1,380,057. AEROPLANE-PROPELLER. EMERY T. GOVE, Berkeley, Calif. Filed Dec. 9, 1919. Serial No. 343,563. 4 Claims. (Cl. 170—163.)



1. In an aeroplane propeller, the combination with a propeller hub and a plurality of blades mounted therein and capable of turning axially in their supports, said blades having gears, rack-bars meshing with said gears, stop arms on said rack bars adapted to engage said gears to limit the movement of said rack bars, and means for actuating said rack bars.

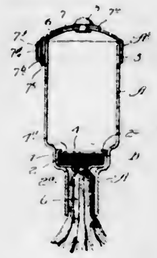
1,380,058. PARKING-LIGHT FOR AUTOMOBILES, &c. ANGUS R. GROSS, Baltimore, Md. Filed Aug. 4, 1920. Serial No. 401,134. 3 Claims. (Cl. 240—7.)

1. In a parking light, a tubular supporting member having a bayonet slot in its upper end for engagement with the pin of a lamp shank, an exterior flange intermediate its ends adapted to rest upon the fender, and an externally threaded portion below the flange adapted to be inserted through a fender; a nut engaging said threaded portion below the fender and clamping the fender between the flange and nut; a small cylindrical casing open at its opposite ends and having a tubular T portion adapted to fit on and over the upper end of the tubular supporting member above the flange; lenses secured in the opposite ends of the casing; a socket screw tapped through the T portion of the casing and engaging the upper end of the socket member to fasten the casing thereto, the outer end of said socket screw being substan-



tially flush with the exterior surface of the T; an insulating block fixedly secured in the lower end of the tubular support; and means in said block for making electrical contact with the contacts in the shank of a lamp when the latter is inserted in the upper end of the socket member; the parts being so proportioned that the lamp is approximately in axial alinement with both lenses, substantially as described.

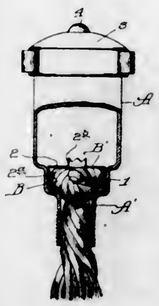
1,380,059. OIL-CUP. ALBERT C. GRUNWALD, Chicago, Ill., assignor to Precision Metal Workers, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1919. Serial No. 316,173. 3 Claims. (Cl. 184—64.)



2. A device of the character set forth, comprising an oil-cup having a contracted base-portion and a still further contracted portion affording a tubular nipple and affording also a seat, and a wick device comprising a hollow member forced into position against said seat and a wick having a portion confined in said hollow member and a portion extending into the nipple, said hollow member having a perforate wall affording a bottom for the oil-cup and through which the oil may seep gradually to the wick.

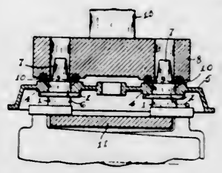
1,380,060. OIL-CUP. ALBERT C. GRUNWALD, Chicago, Ill., assignor to Precision Metal Workers, a Corporation of Illinois. Filed Oct. 8, 1920. Serial No. 415,484. 3 Claims. (Cl. 184—64.)

2. A device of the character set forth comprising a cup provided with a nipple for attachment to a bearing, and a wick device comprising fibrous material and an inverted cup in which the upper portion of said fibrous material is confined, said inverted cup being forced into the base por-



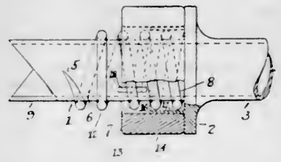
tion of the oil cup above said nipple and having a perforation surrounded by a flange, through which oil may pass.

1,380,061. SEAL FOR STORAGE-BATTERY TERMINALS. CLARENCE W. HAZELETT, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Aug. 19, 1918. Serial No. 250,600. Renewed Mar. 25, 1921. Serial No. 455,435. 9 Claims. (Cl. 204—29.)



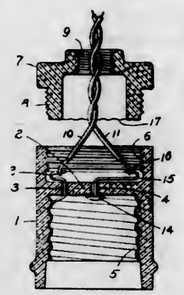
2. The process of forming a battery terminal and sealing the same to a battery cover, which consists in forming a plate post with an abutment and a shouldered portion, placing the post through a hole in the cover, and forcing a cutting tool against the shouldered portion to bur over the metal against the cover and rivet it in place.

1,380,062. ATTACHMENT FOR DISCHARGING CONTENTS FROM VESSELS. MICHAEL HEFFERNAN, Carrap, Edenhope, Victoria, Australia, assignor of one-third to James Christian Glancy, Apsley, Victoria, Australia. Filed May 14, 1920. Serial No. 381,501. 6 Claims. (Cl. 221—23.)



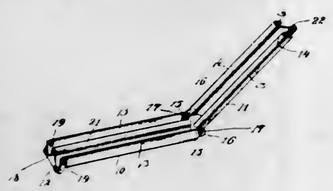
1. A self-clamping device of the character described, comprising a stem adapted to puncture a wall, a flexible member having its forward end pointed and secured to the stem for passage through the wall thereby to carry said flexible member into position to exert spring tension on one side of said wall, and means carried by the stem for clamping said wall between it and said flexible member.

1,380,063. ELECTRIC-LAMP SOCKET. HARRY F. HITNER, Wilkinsburg, Pa. Filed Dec. 1, 1919. Serial No. 341,704. 3 Claims. (Cl. 173—362.)



1. In combination in a device of the class described, an insulating lamp socket, a plug or cap of insulating material threaded upon its exterior and screwing into the rear end of the socket, and binding terminals in the socket adapted to be connected with the ends of leading in wires and positioned opposite the end of the cap so that when the cap is screwed down into the socket the end thereof engages the connections between the wires and terminals.

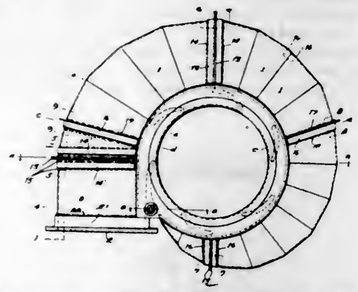
1,380,064. HAIR-WAVER. ISRAEL HOFFMAN, Brooklyn, N. Y. Filed Mar. 5, 1918. Serial No. 220,620. 1 Claim. (Cl. 132—32.)



A hair waving device composed of two longitudinally channeled members, of sheet metal, each having outer walls and straight line channeled bases, forming a plurality of transverse convolutions, the convolutions of one member being smaller than those of the other member that said members may interfit upon an interposed layer of hair to "wave" the latter, adjacent ends of said members being cut away to leave lugs extended from their outer walls, lugs on the smaller member being offset to meet the lugs on the larger member, pivots whereby the lugs of said members are engaged, the pivotally engaged relation of said members being such that their opposed channels are longitudinally spaced apart throughout when said members are closed upon the interposed layer of hair, and engaging means for the free ends of said members.

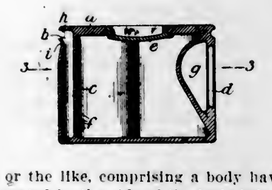
1,380,065. SPIRAL CASING. ELY C. HUTCHINSON, Oakland, and ELMER W. ANDERSON, San Francisco, Calif., assignors to Pelton Water Wheel Company, San Francisco, Calif., a Corporation of California. Filed Oct. 16, 1918. Serial No. 258,449. 2 Claims. (Cl. 253—120.)

1. A joint construction comprising two parts, an edge of one part arranged opposing and close to an edge of the other part, a member arranged exteriorly of one of said parts with one edge disposed adjacent to the edge of said part, and having its opposite edges welded to said part, one of said welds uniting the edges of said adjacent parts,



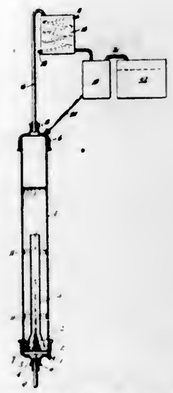
said lateral weld terminating flush with the faces of said adjacent parts providing a relatively smooth surface between the same.

1,380,066. TEAPOT, COFFEE-POT, AND LIKE VESSEL. ROBERT CRAWFORD JOHNSON, Leicester, England. Filed Nov. 3, 1917. Serial No. 200,082. 2 Claims. (Cl. 53—3.)



1. A teapot or the like, comprising a body having a top and a groove located in the side of the body below the top, a spout opening provided in the body and merging into the groove, a partition located in the body and forming a spout, and a handle located within the boundary of the body.

1,380,067. METHOD OF CHLORINATING HYDROCARBONS. GEORGE T. KOCH and ALBERT L. STALLKAMP, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa., a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 343,050. 6 Claims. (Cl. 23—24.)



1. The herein described method of chlorinating hydrocarbons, which consists in treating a paraffin hydrocarbon with chlorin in the liquid phase in the presence of finely divided catalyzing material, and injecting the chlorin below said finely divided catalyzing material, so as to cause said catalyzing material to percolate through said liquid.

1,380,068. ART OF CURING MEAT. FREDERICK W. KURK, Chicago, Ill., assignor to Wilson & Company, Chicago, Ill., a Corporation of New York. Filed Jan. 31, 1921. Serial No. 441,503. 5 Claims. (Cl. 99—1.)

1. A bacterial culture containing only the non-putrefactive, non-pathogenic, nitrate-reducing micrococcus and capable of producing in a meat cure containing nitrates a dominant growth of said bacteria for curing the meat.

5. The process of curing meat which comprises immersing the meat in a pickling solution comprising salt and saltpeter and inoculating the fresh solution with a virile culture of the non-putrefactive, non-pathogenic, nitrate-reducing micrococcus, whereby a dominant growth of said micrococcus is produced in the liquid.

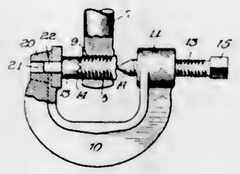
1,380,069. ART OF CURING MEAT. FREDERICK W. KURK, Chicago, Ill., assignor to Wilson & Company, Chicago, Ill., a Corporation of New York. Original application filed Jan. 31, 1921, Serial No. 441,503. Divided and this application filed Feb. 21, 1921. Serial No. 446,762. 2 Claims. (Cl. 99—1.)

1. The process of curing sausage meat which comprises incorporating in the meat curing substances including nitrates and inoculating the meat with a virile culture of the non-putrefactive, non-pathogenic, nitrate-reducing micrococcus, whereby a dominant growth of said micrococcus is produced therein.

1,380,070. ART OF CURING MEAT. FREDERICK W. KURK, Chicago, Ill., assignor to Wilson & Company, Chicago, Ill., a Corporation of New York. Original application filed Jan. 31, 1921, Serial No. 441,503. Divided and this application filed Feb. 21, 1921. Serial No. 446,763. 1 Claim. (Cl. 99—1.)

The process of curing meats which comprises applying superficially thereto curing materials containing nitrates and a virile culture of the non-putrefactive, non-pathogenic, nitrate-reducing micrococcus.

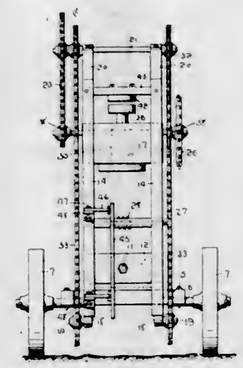
1,380,071. METHOD OF AND APPARATUS FOR REMOVING THREADED MEMBERS. HERMAN G. MARZYCK, Jacksonville, Fla. Filed July 29, 1920. Serial No. 399,950. 4 Claims. (Cl. 81—18.)



1. In combination with a clamp having alined openings for bits, a threaded bit working in one of said openings, and a bit non-rotatably fitting the other of said openings to coöperate with said threaded bit to clamp a part between the bits, said threaded bit having its inner end pointed and the other bit being provided with a surface to prevent rotation of the part clamped with respect to said bit.

1,380,072. PILE-DRIVER. CLARK W. MILLER, Janesville, Wis. Filed June 30, 1920. Serial No. 393,172. 6 Claims. (Cl. 61—74.)

1. In combination, a pair of guides, chains arranged adjacent said guides, hooks carried by said chains, a hammer reciprocably mounted in said guides, hook engaging arms pivoted transversely and movably mounted in said hammer, a connecting rod between said guides, an



abutment carried thereby, and means for withdrawing said arms to permit the hammer to drop, when engaged by said abutment.

1,380,073. PORTAGE DEVICE. GEORGE MORE, Brooklyn, N. Y. Filed Nov. 17, 1920. Serial No. 424,684. 6 Claims. (Cl. 280—56.)

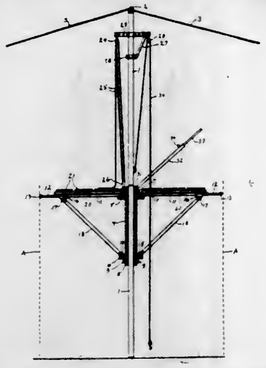


1. In a portage device, in combination, a frame-like handle member, a wheel-axle bearing member having an aperture for the reception of said handle member, means for localizing said handle member in its engagement with said bearing member, and said localizing means having rearwardly extended means to guide the device in mounting steps.

1,380,074. SILO-SCAFFOLD. JOHN MYERS, Sterling, Ill. Filed Sept. 29, 1919. Serial No. 327,146. 1 Claim. (Cl. 304—12.)

A device of the class described, comprising a sectional center-pole; a sleeve slidable thereon and provided with means for attachment thereto; radial supporting arms detachably connected with said sleeve near the upper end thereof; telescopic sections at the outer ends of said arms, provided with wall-engaging means; braces uniting said arms and the lower end of said sleeve, and detachably connected with both thereof; a circular member rotatably

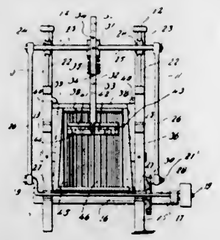
mounted on said center-pole above said sleeve; and a telescopic arm hingedly connected with said circular mem-



ber, and capable of describing a circle about said device, when said arm is in a horizontal position.

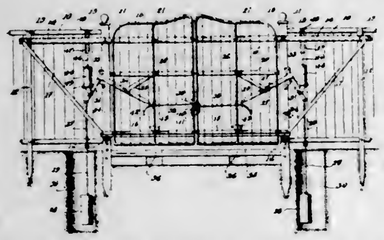
1,380,075. [WITHDRAWN.]

1,380,076. WASHING-MACHINE. JOHN NEWSOME, Sandersville, Ga. Filed Sept. 8, 1920. Serial No. 408,882. 1 Claim. (Cl. 68—19.)



A washing machine including a frame having a pair of uprights each including parallel vertical bars, vertical rods disposed inwardly of the vertical bars, a transverse rod disposed between the bars of the uprights, peripherally grooved disks on the transverse rod riding on the vertical rods, a reciprocatory plunger connected to the transverse rod between the uprights, a driven shaft, a drive shaft operatively engaged with the driven shaft, and pitman rods connected to the ends of the transverse rod and to the driven shaft.

1,380,077. GATE AND DOOR OPERATING MECHANISM. MATTHEW C. OSTER, Roy, Mont. Filed June 7, 1919. Serial No. 302,449. 10 Claims. (Cl. 39—45.)



1. In mechanism as specified, the combination of a wall having an opening therein, a gate member slidably mounted on the wall, operating means for moving the gate members into and out of the opening, a cushioning element connected to the mechanism, auxiliary means adapted to co-act with said operating means during a portion of the movement of the latter to move said gate member and means associated with the cushioning element for rendering the same inactive during the major portions of the opening and closing movement, and adapted to render the cushioning element active at the limit of such movement.

1,380,078. TURNTABLE-RACK FOR OVENS. ORA LEE PARTONNAR, Kansas City, Mo. Filed Feb. 6, 1920. Serial No. 356,806. 1 Claim. (Cl. 126—338.)



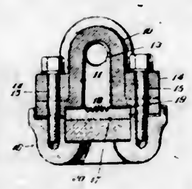
In a turntable rack for ovens, the combination with the oven lugs, of a wire rim forming a square, a table supporting member mounted on said rim and disposed in a plane below the same, said member comprising a central body having thereon a vertical stud terminating in a pivot and associated with the body a plurality of radially extending arms having their outer end portions uniformly upturned and then uniformly turned outwardly at right angles thereto and connected on said rim, the upturned portions of the arms being provided with inwardly projecting revoluble rollers, and a grating rotatably mounted on the pivot on said member and having a rim forming a circle and bearing on the rollers thereon.

1,380,079. WATER-GAGE. GEORGE H. SARGENT, Chicago, Ill., assignor to Sargent Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 22, 1918. Serial No. 229,926. 8 Claims. (Cl. 73—54.)



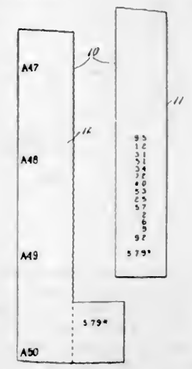
1. A water gage, comprising a rigid metallic casing consisting of end portions connected by elongated rib portions disposed in a triangulated manner so as to provide three elongated sight openings disposed in different directions, the inner surfaces of the rib-portions being formed to receive hydraulically setting material, glass panels mounted in said casing transversely of said openings, with their edges arranged rearward of the respective rib portions and held in place by the hydraulically setting material without physical contact with the metallic casing, a cylindrical water-glass disposed longitudinally of the casing, and means whereby said water-glass is removably maintained in place.

1,380,080. WATER-GAGE. GEORGE H. SARGENT, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,359. 3 Claims. (Cl. 73—54.)



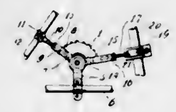
3. In a water gage of the class described, a transparent section or sight-wall composed of a plurality of flat glass panels arranged face to face in abutting relation, with the inner face of the inner or water contacting panel provided with a plurality of light refracting facets.

1,380,081. TAPE FOR ADDING-MACHINES. CLARENCE SAUNDERS, Memphis, Tenn., assignor to Piggly Wiggly Corporation, Memphis, Tenn., a Corporation of Delaware. Filed Dec. 10, 1917. Serial No. 206,503. 2 Claims. (Cl. 283—60.)



1. A tape for adding machines perforated longitudinally and having identification characters on one side and adapted to have tabulated records upon the other side and totaled with duplicate totals a distance apart, substantially as set forth.

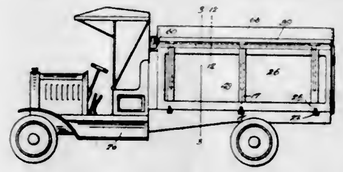
1,380,082. BICYCLE. JOHN C. R. SCHLEDER, McKees Rocks, Pa. Filed Mar. 4, 1920. Serial No. 363,243. 4 Claims. (Cl. 208—154.)



1. In combination with a bicycle of the chain type, a bracket of substantially Y shape; two supplemental sprockets rotatably mounted thereon, means for securing said bracket to the frame of said bicycle and means for establishing driving connections between said sprockets and the driving and driven sprockets of said bicycle.

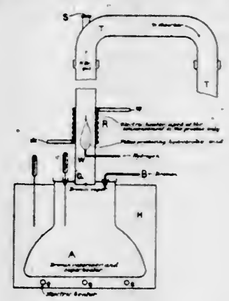
1,380,083. VEHICLE-BODY. LEONARD R. SNAPP, Columbus, Ohio. Filed Mar. 26, 1920. Serial No. 369,132. 6 Claims. (Cl. 296—98.)

1. The combination with the vehicle platform, of angle plates secured to the sides thereof, and a body including side walls having plates at their lower edges disposed at right angles to portions of the said angle plates, said



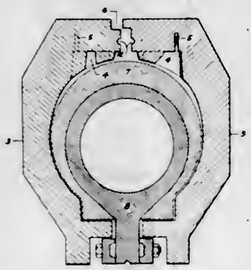
side wall plates and said angle plates having their said portions recessed for the purpose described.

1,380,084. PROCESS AND APPARATUS FOR THE MANUFACTURE OF HYDROBROMIC ACID FROM BROMIN AND HYDROGEN. AEGIDIUS TSCHUDI, Rieben, near Basel, Switzerland. Filed Dec. 22, 1919. Serial No. 346,757. 5 Claims. (Cl. 23—1.)



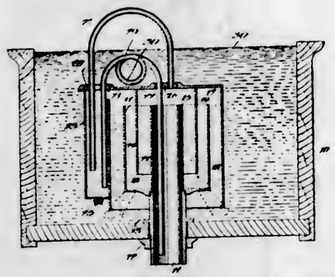
1. A process of making hydrobromic acid from bromin and hydrogen, which comprises causing bromin vapor to occupy the lower portion of an upwardly-extending, tube-like receptacle, and to flow upwardly therein toward a current of hydrogen gas introduced into said receptacle, and burning the bromin vapor by means of the hydrogen at the place at which the hydrogen enters the receptacle, substantially as and for the purpose described.

1,380,085. TIRE-MOLD. CHARLES L. WALTON, Akron, Ohio, assignor to Kelly-Springfield Tire Company, Akron, Ohio, a Corporation of New Jersey. Filed Apr. 16, 1921. Serial No. 461,895. 9 Claims. (Cl. 18—38.)



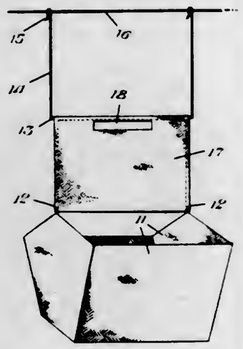
1. A mold comprising separable sections, each section having a design cut therein in intaglio; a register adapted to serve as an overflow for a portion of the excess of an article molded therein; and air traps in said molds at approximately the outer limits of each element of the design.

1,380,086. AUTOMATIC FLUSH. JAMES BLACK WARES, Omaha, Nebr. Filed May 13, 1919. Serial No. 296,768. 1 Claim. (Cl. 137—106.)



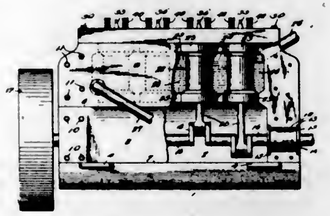
In combination with a tank, an outlet pipe extending through the bottom of the tank, a cylindrical shell surrounding and spaced from the upper end of said pipe, an inverted cylindrical shell having its closed end spaced above the top of said pipe and said first named shell and having its wall extending outwardly of and in spaced relation to the first named shell and terminating below the bottom thereof, a cylindrical member depending from the top of said second named shell and disposed between said pipe and said first named shell, a relatively small upright cylindrical casing at one side of said inverted shell and communicating with the interior thereof at its top, the lower end of said casing being provided with an opening, a vent pipe having one end disposed within said casing, extending above the top of the tank, and having its other end discharging into said second named shell above said pipe, and a siphon pipe having one end disposed within said casing, having its highest point below the maximum level of water within said tank and having its other end extending downwardly into said outlet pipe, and said siphon pipe being provided intermediate its ends at its highest point with a convolution adapted to form an air trap.

1,380,087. CLOTHESPIN-BASKET. JOHN E. WEST, Jr., Central City, Nebr. Filed May 18, 1920. Serial No. 382,223. 6 Claims. (Cl. 150—51.)



2. A basket comprising a body, and a flexible curtain above the body between opposite sides of the body for stopping articles thrown over said sides so that they will drop thereinto.

1,380,088. AUTOMOBILE-ENGINE. JAMES WHITCOMB and GAROLD C. J. GRAY, Hastings, Nebr.; said Whitcomb assignor of one-eighth to Chancie Elmer Coblentz, Hastings, Nebr. Filed Oct. 23, 1919. Serial No. 332,631. 25 Claims. (Cl. 123—173.)



1. In an engine, an elongated cylinder casing comprising longitudinally separable parts, and substantially spool-shaped separate and independent cylinders removably clamped between the separable parts of said cylinder casing.

1,380,089. PHONOGRAPH-NEEDLE. ARNOLD F. WILLAT, San Rafael, Calif. Filed May 21, 1919. Serial No. 298,771. 2 Claims. (Cl. 274—37.)



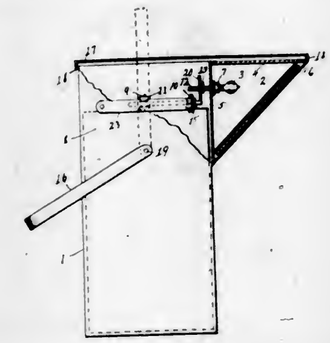
2. A phonograph needle comprising a body member, having one end adapted to be inserted in the needle holder of a phonograph, and having an opening extending therethrough at its lower end, a length of fine wire having one end inserted through said opening and a member of the body for advancing the wire through said opening, said wire being coiled around the last named member.

1,380,090. SECTIONAL TOOL. FRANK C. WILLIAMS, Montello, Nev. Filed May 27, 1919. Serial No. 300,107. 4 Claims. (Cl. 145—61.)



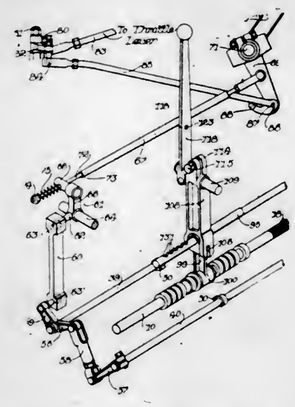
1. A sectional tool of the character described comprising a tubular handle section open at one end and closed at the other end, a supplemental handle section of a size capable of being stored within the tubular handle section, means whereby one end of said supplemental handle section may be detachably coupled to the closed end of the tubular handle section, a tool having means whereby it may be detachably engaged either with said coupling means or with the other end of the supplemental handle section as desired, and a removable closure for the open end of said tubular handle section.

1,380,091. ELECTRIC LANTERN. LEIGH D. BRAINERD, Chicago, Ill. Filed Dec. 31, 1919. Serial No. 348,707. 2 Claims. (Cl. 240—8.5.)



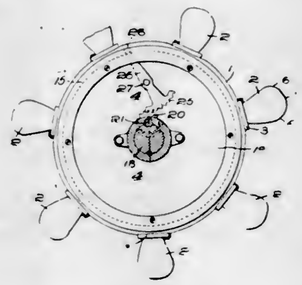
1. In a device of the class described, the combination of a casing having an inclosed light chamber with upper and rear reflectors and glass front opening, an electric light bulb mounted in said light chamber, one terminal in electric contact with the rear reflector, a removable battery within said casing, the central terminal connected with the remaining terminal of the bulb, a spring contact shoe mounted on the casing for contacting with the second terminal of the battery, a cover with downward projecting edges for inclosing the said casing, all substantially as shown and described.

1,380,092. VALVE-GEAR AND CONTROL MECHANISM FOR ENGINES AND THE LIKE. OSCAR F. CARLSON, Chicago, Ill. Filed Oct. 17, 1918. Serial No. 258,660. 39 Claims. (Cl. 121—120.)



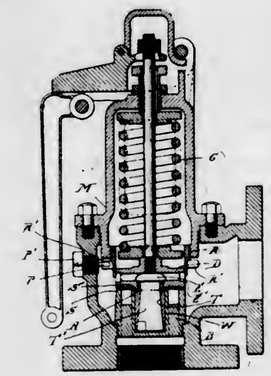
1. In combination, an admission valve, a cam shaft, a plurality of independent separate cams on said cam shaft, said cams being spaced one from the other along said cam shaft, a tappet for engaging the cams on said cam shaft, said tappet being adapted to actuate said admission valve and normally remaining in operative relation to one of said cams, tappet releasing means, means affording a direct mechanical connection between said tappet releasing means and said tappet for moving the latter out of operative relation with said cams, pedal operative means for operating said tappet releasing means, and manually operable means for selectively shifting said cam shaft to bring the desired cam into operative relation with said tappet.

1,380,093. PROPELLER. GEROLAMO CATANZANO, Somerville, Mass. Original application filed Jan. 17, 1919, Serial No. 271,684. Divided and this application filed June 26, 1919. Serial No. 307,006. 4 Claims. (Cl. 170—163.)



3. The combination with a hull, of a universal propeller comprising a hub, blade bases pivoted thereon, blades on the bases, a base adjusting ring on the hub connected with the blade bases, a ring actuator on the hub, a pinion for operating the same and means for operating the pinion from within the hull.

1,380,094. SAFETY-VALVE. GEORGE H. CLARK, Melrose, Mass., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 30, 1920. Serial No. 369,951. 2 Claims. (Cl. 137—53.)

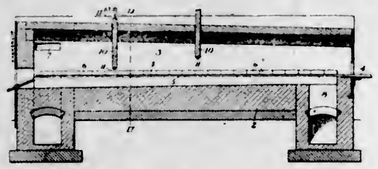


1. In a safety valve, a base provided with concentric seats, and a central well, a valve disk seating on both inner and outer seats, and provided with a tubular portion slidably mounted in said central well, apertures between the interior of said tubular portion and the inner valve-seat, an egress conduit from said tubular portion having its discharge opening from the valve disk outside the outer valve seat, a sleeve, adjustably mounted in the valve casing, making a sliding fit with the outer periphery of the disk and coacting with said egress conduit to constrict the effective aperture thereof as the valve disk rises.

1,380,095. HEATING-FURNACE. NICKOLAS F. EGLER, Chicago, Ill. Filed Aug. 29, 1919. Serial No. 320,602. 6 Claims. (Cl. 263—10.)

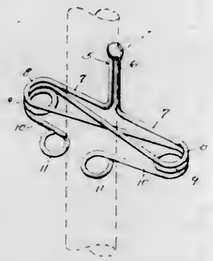
1. A heating furnace having a chamber along which the hot gases of combustion travel, elevated tracks along

which the workpieces travel through the furnace chamber, and means for deflecting the stream of hot gases from the



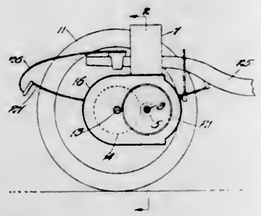
furnace roof toward the floor of the furnace and beneath the workpieces, substantially as described.

1,380,096. RESILIENT CLAMP. THOMAS S. ESNOUGH and BERNARD L. SCHREINER, Philadelphia, Pa. Filed Mar. 1, 1921. Serial No. 448,907. 3 Claims. (Cl. 24—257.)



1. A resilient clamp including a length of resilient material bent intermediate its ends to provide an attaching member and extended laterally from the attaching member to afford a pair of oppositely disposed arms, the latter being bent and extended reversely and disposed in crossed relation, coils carried by the free ends of said arms, and coacting resilient arms extending from the coils and toward each other.

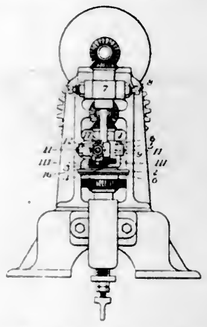
1,380,097. MOTOR-VEHICLE. STEPHEN I. FEKETE and STUART G. BAITS, Detroit, Mich., assignors to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1920. Serial No. 393,481. 6 Claims. (Cl. 180—62.)



5. The improved motor vehicle having a pair of wheels, an axle, a casing for said axle, an engine mounted on said casing, a crankshaft for the engine in said casing parallel with the axle, reduction gearing operatively connecting said axle and crankshaft, and a friction clutch interposed in the connections between said axle and crankshaft.

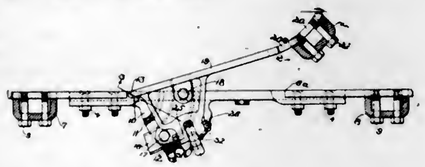
1,380,098. INSOLE-LIP TURNER. FRANK C. FIX, Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 13, 1918. Serial No. 234,042. 7 Claims. (Cl. 12—30.)

1. A machine of the character described, comprising a feed table, a feed means above the table lip turning-devices coöperating therewith for forming a lip on an insole, and means arranged to extend across the formed lip and



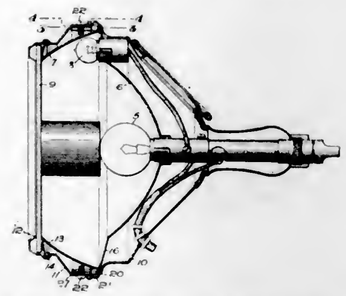
engage the top face and outer side thereof for positioning the lip, substantially as described.

1,380,099. TRACK-SWITCH. GEORGE B. GONIA, Somerville, Mass. Filed Sept. 18, 1920. Serial No. 411,047. 19 Claims. (Cl. 104—103.)



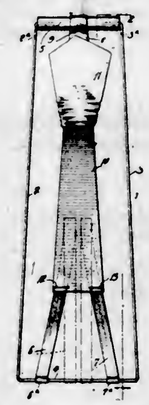
1. In a device of the class described, a pair of fixed track members having spaced extremities, a horizontally swingable track member interposed between said extremities, a support for said swingable member, said support rigidly connecting said fixed member, an actuating device for moving said member, and coöperating locking elements carried by said device and said support respectively.

1,380,100. LAMP. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Jan. 16, 1917. Serial No. 142,729. 18 Claims. (Cl. 240—41.)



1. In a lamp, the combination of a casing in two parts, one telescoped within the other, one being provided with a plurality of bayonet slots, and one being provided with a seat, a plurality of reflectors disposed within said casing, one of said reflectors being seated against the other, and such other reflector being seated against said seat, a retaining member for retaining said reflectors so seated, and means for holding said retaining member in place and for holding said casing parts together, said mans including fastening elements located in said bayonet slots, respectively.

1,380,101. RENOVATING AND IRONING FRAME FOR NECKTIES. FREDERICK J. HAYMAN, Brooklyn, N. Y. Filed Nov. 20, 1919. Serial No. 339,424. 4 Claims. (Cl. 223—19.)



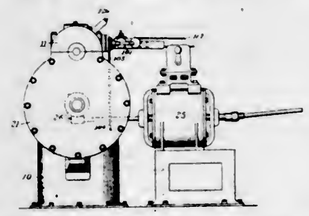
1. In a necktie renovating and ironing frame, the combination with a necktie supporting bar, of a frame associated therewith having a tension bar member spaced therefrom and a plurality of transversely movable tapes mounted upon said tension bar, as and for the purpose specified.

1,380,102. CONTINUOUS AUTOMATIC GRAVITY-DISCHARGE REHEATING-FURNACE. ALBERT WILLIAM HORN, Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,537. 12 Claims. (Cl. 263—6.)



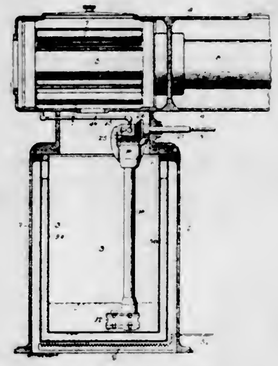
1. In an apparatus of the kind described, a reheating furnace provided with cooled skid members for the billets, said skids at a suitable point being offset and continued out of alinement with the preceding part thereof, in combination with means for admitting a heating medium above the advancing billets, and independent means for directing a heating medium upon the advancing billets upon the lower surface thereof at the points where said billets were previously in contact with the skid members.

1,380,103. MACHINE FOR FORMING SHELLS OF PAPER OR THE LIKE. EDWIN F. HULBERT, Milwaukee, Wis., assignor to National Paper Can Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 27, 1917, Serial No. 209,184. Renewed Oct. 25, 1920. Serial No. 419,483. 28 Claims. (Cl. 93—81.)



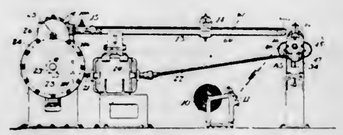
4. A machine for winding shells of paper or the like, comprising a rotary mandrel, and an endless free-running chain-belt engaging and partially surrounding the mandrel and having its links shaped to conform to the curvature of the mandrel, substantially as described.

1,380,104. MACHINE FOR FORMING SHELLS OF PAPER OR THE LIKE. EDWIN F. HULBERT, Milwaukee, Wis., assignor to National Paper Can Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 27, 1917, Serial No. 209,185. Renewed Oct. 25, 1920. Serial No. 419,484. 4 Claims. (Cl. 93—81.)



1. A machine for making shells of paper or the like, comprising a mandrel and associated mechanism for winding a sheet of material into a shell, means for supplying a heated wax to the mandrel while the sheet is being wound, means for ejecting the wound shell from the mandrel, and means for interrupting the flow of the wax during the ejecting operation; substantially as described.

1,380,105. WINDING-MACHINE. EDWIN F. HULBERT, Milwaukee, Wis., assignor to National Paper Can Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 27, 1917, Serial No. 209,186. Renewed Oct. 25, 1920. Serial No. 419,485. 5 Claims. (Cl. 93—81.)

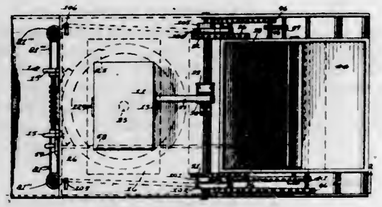


2. A machine of the character described, comprising means adapted to receive strips and wind them into shells, and means for supplying printed strips thereto, comprising a platen cylinder, a printing cylinder coöperating therewith, a gear for continuously driving the platen cylinder having a mutilated portion for intermittently driving the printing cylinder, and means for locking the printing cylinder in its inoperative position; substantially as described.

1,380,106. GROUND-LEVELING MACHINE. MICHAEL JANKIEVICH, Elmhurst, N. Y. Filed Aug. 13, 1920. Serial No. 403,389. 7 Claims. (Cl. 94—44.)

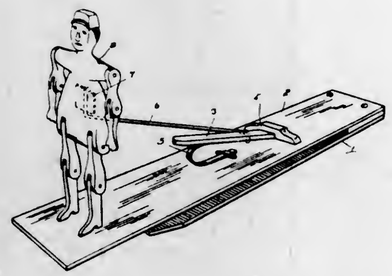
1. A ground leveling machine of the character described, comprising in combination with a motor carrying frame, a steering-roller in said frame, a ground leveling roller in front of said steering-roller, means for supplying sand, and clay to the ground in front of said leveling roller, a stone rake, a collector, and means for carrying

the stones collected by said rake to said collector, brushes for cleaning said rollers during their rotation, rakes and



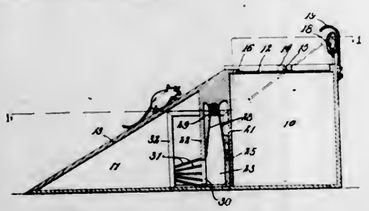
brushes for equally distributing the sand, and clay and means for operating said parts simultaneously and alternately from said motor.

1,380,107. DANCING DOLL. JOHN C. KEEL, Rochester, N. Y., assignor of one-half to Eangelia A. Keel, Rochester, N. Y. Filed Oct. 27, 1920. Serial No. 420,041 1 Claim. (Cl. 46—40.)



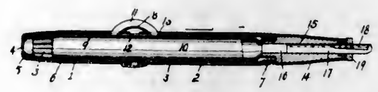
A dancing doll having a base, a spring board mounted thereon, a spring wire mounted on the spring board and supporting the doll in an upright position, a spring arm for vibrating the spring board causing the board and doll to move relative to each other and causing the feet of the doll to strike the spring board at regular or irregular intervals and producing a dancing movement of the doll.

1,380,108. ANIMAL-TRAP. WALTER LABURDA, Coalton, Okla. Filed Apr. 7, 1920. Serial No. 371,858. 2 Claims. (Cl. 43—69.)



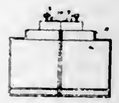
1. A mouse trap having front and rear compartments and a relatively small intermediate compartment, a trap door forming the top of the rear compartment, hinged translucent doors leading from the rear compartment to the intermediate compartment, springs normally urging said doors to closed position, the rear wall of the front compartment having openings therein registering with the said doors, converging spikes extending forwardly from the edges of said openings, and a translucent door in the side wall of the trap registering with the front and intermediate compartments.

1,380,109. FOUNTAIN-PEN. CHARLES A. LUCK, Toledo, Ohio, assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Oct. 26, 1918, Serial No. 259,756. Patent No. 1,315,373, dated Sept. 9, 1919. Divided and this application filed Jan. 22, 1919. Serial No. 272,480. 13 Claims. (Cl. 120—46.)



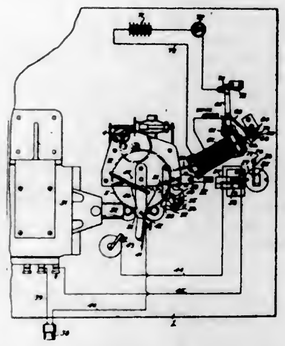
1. A fountain pen barrel having inner and outer telescoped shells, the inner shell being corrugated and reinforcing the outer shell, and the outer shell comprising two sections, one of which is fixed and the other removably threaded to the inner shell.

1,380,110. VESSEL SUPERSTRUCTURE. ALEXANDER MCDOUGALL, Duluth, Minn. Filed Oct. 18, 1919. Serial No. 331,606. 3 Claims. (Cl. 114—74.)



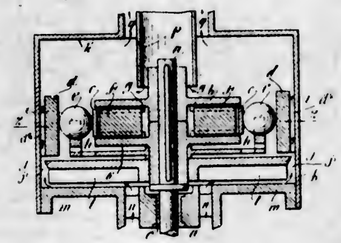
1. The combination with a navigable vessel having the cargo hold thereof divided into a plurality of individual cargo compartments and a plurality of hatch ways communicating with said compartments, of removable hatch covers for said hatch ways, carrying fixed thereto expansion tanks substantially as and for the purpose described.

1,380,111. SPRING-MOTOR AND WINDING MEANS THEREFOR. EDWARD S. MARSH, Rochester, N. Y. Original application filed Oct. 18, 1915, Serial No. 56,424. Divided and this application filed May 29, 1916. Serial No. 100,683. 12 Claims. (Cl. 185—40.)



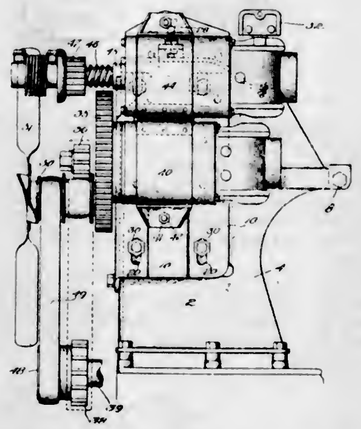
1. In a talking machine the combination with a spring motor, and an electric motor for winding the same having a switch in its circuit, of a switch-actuating means operating automatically to close the switch, means for automatically opening the switch, a brake for stopping the spring motor, and means for preventing the brake from operating while the switch-actuating means is in the position to prevent the movement of the switch to open position.

1,380,112. GRINDING-MACHINE. KRISTIAN MIDDELBOE, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed May 28, 1919, Serial No. 300,454. Renewed Mar. 8, 1921. Serial No. 450,671. 7 Claims. (Cl. 83—45.)



1. In a grinding mill the combination with an outer guide and a series of grinding bodies adapted to roll in contact with the inner face of said outer guide, of an inner guide comprising radially movable sections having its periphery in contact with the grinding bodies, means for rotating the inner guide and for moving the sections outward against the grinding bodies, said sections being each provided on its forward end with a portion adapted to yield inwardly relatively to the rear portion of the section.

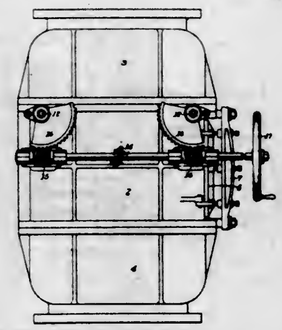
1,380,113. ELECTRIC STARTING AND LIGHTING APPARATUS FOR AUTOMOBILES. WILLIAM B. MOSES, Brookline, Mass., assignor to Gray & Davis, Inc., Cambridge, Mass. Filed Apr. 15, 1916. Serial No. 91,383. 8 Claims. (Cl. 290—47.)



6. In apparatus of the character described, the combination with an engine, of a pair of separately detachable electric units, a bracket adjustably mounted on the engine comprising means adapted to definitely locate said units relatively to each other and to said bracket, and means for securing the units in located positions.

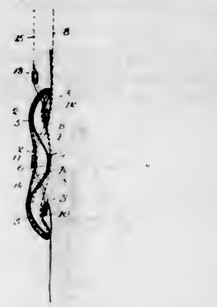
1,380,114. STRAINER. WILLIAM S. ELLIOTT, Pittsburgh, Pa. Filed Oct. 31, 1918. Serial No. 260,457. 6 Claims. (Cl. 210—164.)

1. A strainer apparatus comprising a strainer chamber having a single flow entrance passage, a strainer element removably seated in said chamber, and a perforated guard device normally supported in a position outside the line



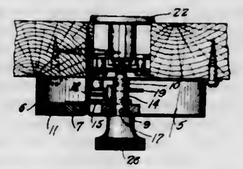
of flow through said flow passage and arranged to be moved across said passage in series with the strainer element, substantially as described.

1,380,115. HOSE-SUPPORTER CLASP. WALTER HYERS, PUMPHREY, New York, N. Y. Filed Jan. 18, 1921. Serial No. 438,257. 16 Claims. (Cl. 24—245.)



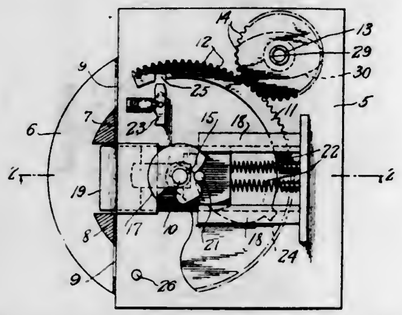
1. A hose supporter clasp comprising supporting webbing terminating in a loop, an undulating distender within the loop shaped to provide unyielding support for certain sections of the loop, leaving the other sections thereof, free and yielding, the yielding sections alternating with the unyielding sections and being oppositely disposed thereto upon opposite sides of the distender, and a coöperating member adapted to engage and bind the hose against the yielding sections of the loop along lines at right angles to the length of the hose.

1,380,116. LOCK. PETER SOLAINI, Astoria, N. Y. Filed June 8, 1920. Serial No. 387,313. 9 Claims. (Cl. 70—46.)



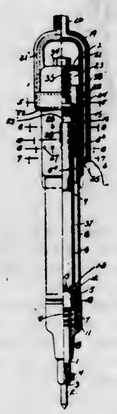
2. In a lock, a casing having a knob spindle extending thereinto, a dead bolt mounted on said spindle and operable thereby, means for locking said dead bolt in either the locked or the unlocked position, and means operable by said spindle for unlocking said first mentioned means to permit the dead bolt to be moved.

1,380,117. LOCK. PETER SOLAINI, Astoria, N. Y. Filed June 8, 1920. Serial No. 387,314. 10 Claims. (Cl. 70—29.)



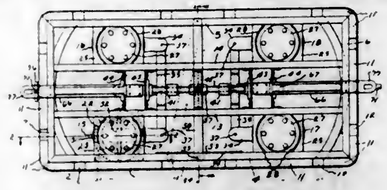
3. In a lock, a casing, a dead bolt carried by said casing, gear teeth on said dead bolt, a pinion rotatably mounted in said casing and meshing with the teeth on said dead bolt, and a cam and spring-pressed follower for moving said dead bolt to and holding the latter in one of its extreme positions, said pinion having means for coöperation with part of a cylinder lock whereby the pinion may be rotated by means of a cylinder lock.

1,380,118. PNEUMATIC CENTERING-PUNCH. WILLIAM THOMPSON SPARROW, Newport News, Va. Filed Feb. 13, 1920. Serial No. 358,503. 3 Claims. (Cl. 121—11.)



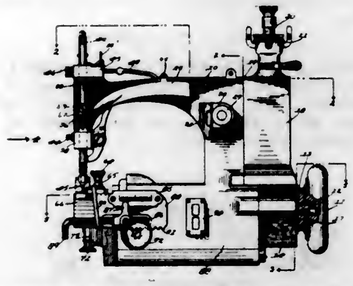
1. A pneumatic centering punch comprising a tubular member with enlarged portions at its top and bottom, and provided with a circumferential series of openings at the top of said bottom enlargement, an anvil reciprocable in said bottom enlargement, a hammer reciprocable in said tubular member, said top enlargement being provided at its bottom with a circumferential recess, and with a series of longitudinally extending grooves in the bottom of said recess, an annulus disposed in said recess and provided with a series of apertures communicating with said grooves, a sleeve bearing at its upper end against the lower end of said annulus and, at its lower end, against said lower enlargement, forming a chamber between said sleeve and said tubular member, said chamber communicating at one end with said grooves and at its other end with said openings at the top of the bottom enlargement, and a tubular valve member reciprocable on said top enlargement, and provided with a longitudinally extending port having branches communicating with said annulus apertures in the raised portion of said valve member.

1,380,119. WHEELED VEHICLE. CHARLES W. SPONSEL, Hartford, Conn., assignor to The Fairbanks Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 10, 1919. Serial No. 322,857. 8 Claims. (Cl. 280—99.)



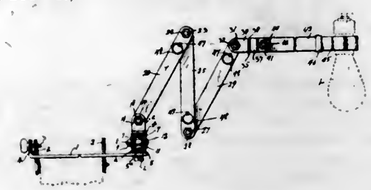
2. A vehicle comprising a body, two sets of rotary wheels in coöperative relation with the body, bearings to which the wheels are connected, the bearings of one set of wheels being mounted for swiveling movements about axes transverse to the axes of rotation of their wheels, a bar connected to the swiveling bearings, and means accessible from the side of the vehicle between the sets of wheels for at will locking said bar to the body of the vehicle.

1,380,120. SELF-LUBRICATING DUSTPROOF SEWING-MACHINE. PHILIP STEINBOCK, New York, N. Y. Filed May 25, 1920. Serial No. 384,027. 7 Claims. (Cl. 112—256.)



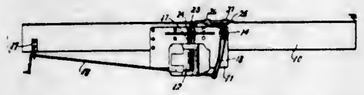
1. In a sewing machine of the character described, having a dust proof, chambered casing including an excenter bar, an oil receptacle or chamber, a split-bearing for the excenter bar of the machine having an opening, and a wick adapted to enter the opening in said bar and to extend with its free untwisted or branched ends into said oil chamber, and means for guiding said wick intermediate its ends.

1,380,121. SUPPORT. OSCAR BURKE STITZER, Louisville, Ky., assignor to David Stitzer, Louisville, Ky. Filed Mar. 10, 1920. Serial No. 364,696. 3 Claims. (Cl. 248—1.)



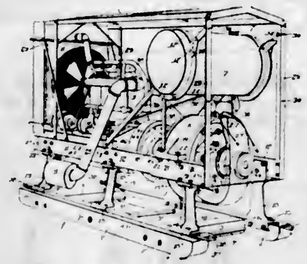
3. A support of the character described comprising an articulated member, anchoring means operatively engaged with one end portion of the member, an engaging member in swivel connection with the opposite end portion of said articulated member, said swivel connection comprising two substantially U-shaped members, one operatively engaged with the articulated member and the second with the engaging member, a headed shank disposed through and pivotally connecting said U-shaped members, and a nut threaded on said shank for maintaining the shank and U-shaped members in assembled relation, said shank and one of the U-shaped members being provided with coacting means to hold the shank against rotation.

1,380,122. CAR-COUPLING RELEASE. GEORGE C. STROUP, Jersey City, N. J., assignor of one-half to John H. Bradshaw, Palisades, N. J. Filed Sept. 16, 1919. Serial No. 324,196. 5 Claims. (Cl. 213—59.)



1. In a coupling release, in combination, a bell crank pivoted adjacent the coupling, said bell crank comprising two arms, one arm being extensible, the extensible arm as a whole pivotally mounted on the other arm, means for connecting the extensible arm to the coupling pin, and means for moving the bell crank about its pivot.

1,380,123. PORTABLE LIGHTING-PLANT. WILLIAM E. SULLIVAN, Roodhouse, Ill. Filed Aug. 2, 1918. Serial No. 248,024. 4 Claims. (Cl. 290—1.)



1. A portable lighting plant comprising a rectangular frame including a pair of bars spaced apart, in combination with an upright internal combustion engine and a dynamo-electric machine of less height than said engine and direct connected in axial alinement between said bars and supported thereon, a fuel tank mounted in front of said engine above said generator and supported on said frame, and an electric control panel disposed in upright position across the generator end of said frame, in front of said tank.

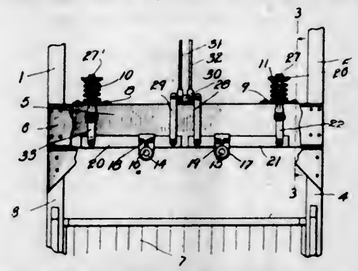
1,380,124. CONNECTING-LINK. ALLEN A. TIRRILL, Pittsburgh, Pa. Filed Apr. 20, 1920. Serial No. 375,329. 2 Claims. (Cl. 24—241.)



1. A connecting link comprising a body or link member having an opening therein, a notched tumbler plate on said body member, a headed post rotatably securing said tumbler plate on said body member, and protuberances on said tumbler plate for protecting the head of said post.

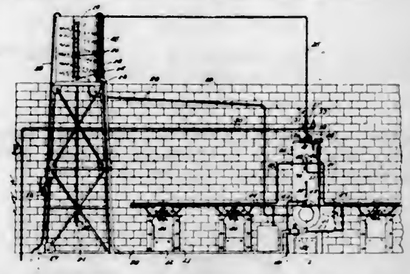
1,380,125. TENSION-EQUALIZING AND SHOCK-ABSORBING DEVICE. FREDERICK E. TURNER, Kansas City, Mo., assignor to Kansas City Elevator Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 11, 1920. Serial No. 416,217. 8 Claims. (Cl. 187—22.)

1. In combination, an elevator, a yieldingly supported device connected to the elevator, said device comprising a pivoted lever, a yielding connection between the elevator



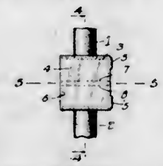
and one end of the lever, and a cable connection at the other end of the lever.

1,380,126. CRUDE-OIL-BURNING SYSTEM. HARILAOS N. TZIMINADIS, New York, N. Y. Filed Dec. 27, 1920. Serial No. 433,189. 4 Claims. (Cl. 158—36.)



1. In a system of the class described, a furnace having a side wall, a cylindrical boiler projecting through said side wall, and an oil distributing tank mounted on the boiler with the shell of the boiler forming the obttom of the tank.

1,380,127. COUPLING. WALTER J. WELCH and ATLEE H. TRACY, Chicago, Ill., assignors to H. M. Byllesby & Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 1, 1920. Serial No. 407,294. 4 Claims. (Cl. 287—113.)

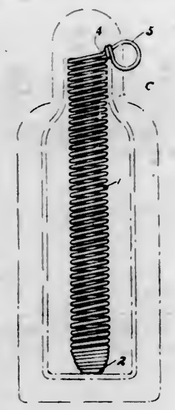


1. A coupling for the purpose specified, comprising hollow coupling members a side of each of which is open, one of which telescopes into the other, the interior of said coupling members forming a chamber adapted to receive heads on the ends of the rod sections to be connected, the end walls of said coupling members being provided with slots which "cut out" at the open sides thereof and are adapted to receive the rods to be connected beneath the heads thereon, the relation being such that the heads on said rods will interlock with the end walls of the inner coupling member adjacent to the slot therein, substantially as described.

1,380,128. THERMOS-BOTTLE ATTACHMENT. CONNIE H. WILSON and CHARLES G. LEE, Asheville, N. C. Filed Sept. 10, 1920. Serial No. 409,433. 2 Claims. (Cl. 215—13.)

1. A device of the character described including an elongated coil of heat conducting material, said coil hav-

ing a closed end portion for engagement with the bottom of a container and an upper end portion for engagement



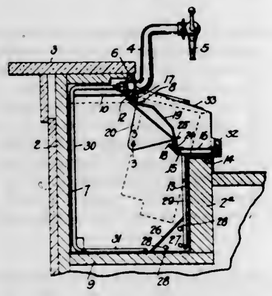
with the neck of the container, and means extending from one end of the coil to be grasped by the user.

1,380,129. ATTACHMENT FOR INK-BOTTLES. HENRY WOLFF, New York, N. Y. Filed Oct. 25, 1920. Serial No. 419,243. 4 Claims. (Cl. 120—73.)



1. An ink bottle attachment comprising a length of wire adapted to be secured to an ink bottle and having a portion bent up to form a pen rack, the bends forming a plurality of bearings; and a second length of wire mounted in said bearings and provided with legs adapted to grasp the sides of said bottle when in one position and to effect tilting of said bottle when in another position.

1,380,130. SODA-FOUNTAIN. JOHN J. WOMPEY, Denver, Colo., assignor to The L. Grauman Fixture Company, a Corporation of Colorado. Filed Oct. 2, 1919. Serial No. 327,959. 8 Claims. (Cl. 225—1.)



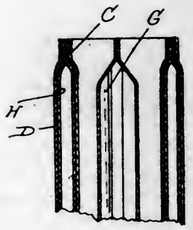
1. In a soda-fountain, an ice-receptacle having an entrance in one of its sides, a lid closing the entrance, and a drip-pan extending outwardly from the entrance at the lower edge thereof.

1,380,131. CEILING-LIGHT. LAURITZ W. ANDERSEN, Waterbury, Conn. Filed Aug. 10, 1916. Serial No. 114,109. 4 Claims. (Cl. 240—78.)



4. A light fixture comprising a socket holding portion and a shade holding flange spaced beneath the same and connected thereto, ribs and projections upon said socket holding portion and a shell surrounding said socket holding portion and having inclined ribs adapted to engage the projections and ribs on the socket holding portion, said shell being movable toward and away from the shade supporting flange.

1,380,132. RADIATOR-CORE. RUSSELL E. BENNER, Flint, Mich. Filed Nov. 1, 1917. Serial No. 199,784. 1 Claim. (Cl. 257—130.)

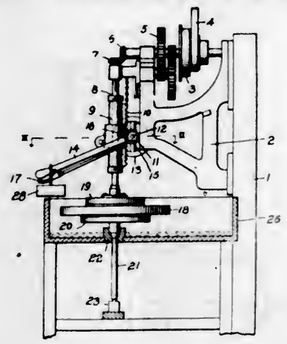


A radiator core, comprising strips each having straight edge portions in contact with another strip and the portions intermediate said edges offset to form conduits, said intermediate portions being expanded at intervals to form transversely-extending enlarged water-cells, and zigzag fin strips respectively arranged between said conduits, said fin strips having edge portions between which the contacting edge portions of the water-tube are embraced, and having intermediate portions fashioned to bear upon the conduit strips intermediate the expanded water-cells thereof to form air cells surrounding said water-cells.

1,380,133. EDGE GRINDING AND POLISHING MACHINE. CHRISTOPHER BROWN, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Sept. 27, 1918, Serial No. 255,885. Renewed Dec. 10, 1920. Serial No. 429,809. 7 Claims. (Cl. 51—237.)

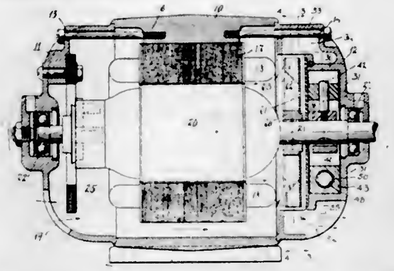
1. In combination in a machine for grinding or polishing the edge of circular plates which comprises a pair of opposing clamping members rotatable about a vertical

axis, an operating spindle for the upper one of said members located on said axis, a raising member provided



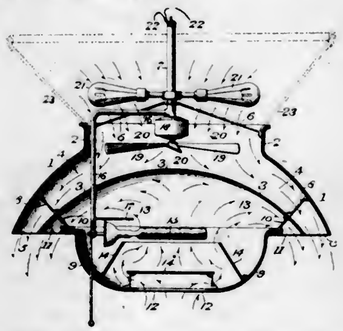
with a rack in which said spindle is swiveled, a pinion meshing with the rack, and means for rotating the spindle.

1,380,134. SPEED-CONTROLLING DEVICE FOR MOTORS. JOEL R. COOK, Cleveland, Ohio, assignor to The Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 28, 1918. Serial No. 259,932. 18 Claims. (Cl. 188—185.)



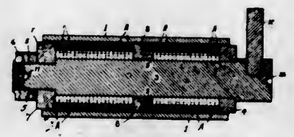
1. The combination of a motor frame comprising a field member and an end cap therefor, an armature within the field member, a flange carried by the end cap on its interior, and a centrifugal brake shoe carried by the armature shaft within said flange and adapted to engage the same.

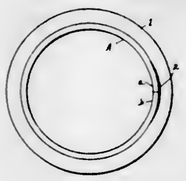
1,380,135. HEATER. ELBERT A. CORBIN, Jr., Glenside, Pa. Filed Sept. 1, 1920. Serial No. 407,366. 5 Claims. (Cl. 126—248.)



1. An air-heating device composed of a chambered body open at top and bottom, an imperforate dome beneath said body and spaced therefrom, means beneath said dome to heat the same, and an air suction device within the body above said dome, the said body and dome having outlets at their peripheries upon opposite sides of the dome.

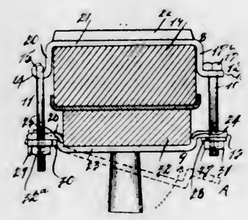
1,380,136. PISTON-RING-FINISHING ASSEMBLY. HARRY C. DOAN and CLIFFORD J. MARSON, Richmond, Ind., assignors to D. & M. Autoparts Co., Richmond, Ind., a Corporation of Indiana. Filed Apr. 2, 1920. Serial No. 370,632. 6 Claims. (Cl. 82—40.)





1. In a piston ring finishing assembly, a pot having a tubular aperture extending therethrough and such as to receive a compressed ring therein, there being a crescent enlargement in one portion of the inner wall of the pot, with the ends of the ring located centrally of the crescent, substantially as set forth.

1,380,137. GRIPPING ATTACHMENT FOR TIRES. PHILIP J. DONOHUE, New York, N. Y. Filed Apr. 16, 1920. Serial No. 374,311. 1 Claim. (Cl. 152—14.)



In a tire gripping device, a tread member consisting of a rail to extend transversely of a tire, said rail being provided with a groove extending longitudinally, a fin removably located in said groove, a releasable latch carried by the rail to engage said fin, and means to secure said tread member to a wheel.

1,380,138. VEHICLE-WHEEL. EUGENE C. GASPARD, Cleveland, Ohio. Filed Feb. 4, 1918. Serial No. 215,374. 10 Claims. (Cl. 301—27.)

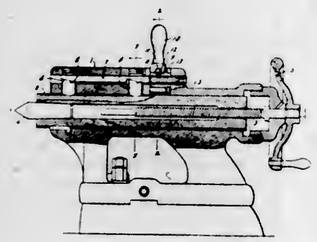
2. The combination, with a fixed rim having laterally spaced beveled seats one of which has a lateral extension,

of a demountable rim having laterally spaced beveled seat-engaging portions one of which has a lateral extension parallel with the first mentioned extension, and a beveled rib carried by said demountable rim intermediate of such



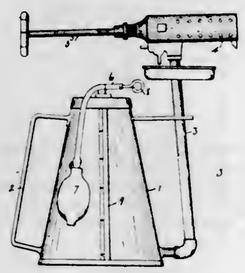
portions, an expansible and contractible ring connected to said fixed rim and having a beveled surface adapted to coöperate with such beveled rim, and means carried by said fixed rim for expanding and contracting said ring.

1,380,139. TAILSTOCK. WILLIAM A. GREAVES, Cincinnati, Ohio. Filed Mar. 10, 1919. Serial No. 281,844. 5 Claims. (Cl. 82—31.)



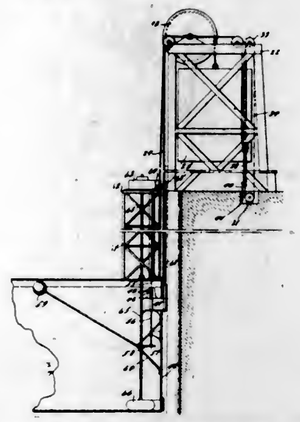
1. A device of the class described, comprising a frame, a spindle, a pair of radial clamps spaced longitudinally of and engaging the spindle, a translatory actuator having wedge engagement with the clamp elements, means for translating the actuator, and means for varying the zone of actuator translation.

1,380,140. PAINTER'S BLOWTORCH. WILLIAM GRETSINGER, Baltimore, Md. Filed Oct. 26, 1920. Serial No. 419,717. 2 Claims. (Cl. 158—33.)



1. A blow torch comprising a gasolene holder, a burner, a pipe leading from said gasolene holder to said burner, and a blade projecting vertically along the outer surface of said gasolene holder.

1,380,141. LIFTING-DOCK. THOMAS HAYDEN HAMILTON, New York, N. Y. Filed July 6, 1918. Serial No. 243,580. 16 Claims. (Cl. 61—65.)

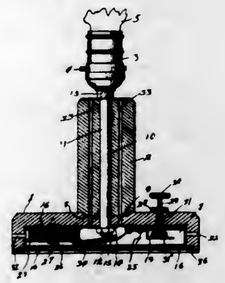


1. In a lifting dock, the combination of submersible pontoons, individual means to evacuate the water from said pontoons, and automatic regulating mechanism for each evacuating means whereby the rate of evacuation is proportional to the weight supported on each pontoon.

1,380,142. PLATING-BATH. HUGO H. HANSON and ALBERT C. WALKER, Bangor, Me., assignors, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1919. Serial No. 338,734. 3 Claims. (Cl. 204—1.)

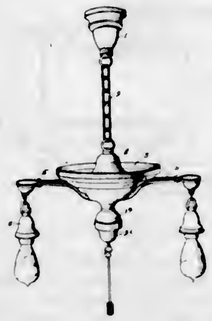
1. An electro-plating bath for metals, which contains, in addition to a salt of the metal to be deposited, a relatively small proportion of the soluble material contained in the sulfite liquor resulting from cooking wood by the sulfite process.

1,380,143. PORTABLE ELECTRIC LAMP. WILLIAM A. HARVEY, Scranton, Pa. Filed Mar. 18, 1920. Serial No. 366,734. 4 Claims. (Cl. 240—81.)



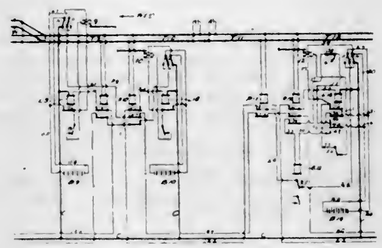
1. A portable electric light fixture comprising a base, a vertical support projecting from said base, an electric light bulb positioned upon said support, a circuit for said light and a switch for controlling said circuit, said base being provided with a chamber, a removable resistance unit being interposed in said circuit and a separable means positioned in said chamber for varying the amount of resistance through which the current to the light must pass, said means comprising a multiplicity of superimposed metal contacts, and a base plate upon which said contacts are mounted, said means being operatable from a point outside said chamber, substantially as described.

1,380,144. ELECTRIC CHANDELIER FIXTURE. WILLIAM A. HARVEY, Scranton, Pa. Filed Apr. 24, 1920. Serial No. 376,186. 3 Claims. (Cl. 240—78.)



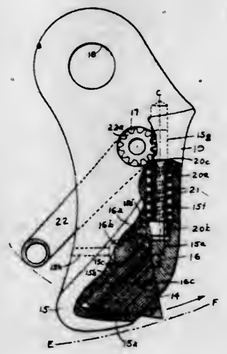
1. A chandelier fixture having as a part thereof an inverted bell-shaped housing and electric lamps and means for varying the degree of illumination of said lamps and particularly adapted for use with a chandelier which comprises a circular resistance element contained in said inverted bell-shaped housing, a circuit including said electric bulbs and said resistance element, a switch for controlling said resistance element, comprising a plurality of spring contact members, and means operable from a distance for causing said spring contacts to engage one another, as and for the purpose described.

1,380,145. DIRECTIONALLY-CONTROLLED SIGNAL SYSTEM. ROBERT J. HEWETT, Westfield, N. J. Filed Jan. 16, 1918. Serial No. 212,021. 12 Claims. (Cl. 246—33.)



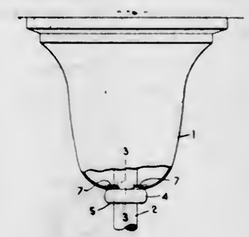
1. In an electric railway signal system, a stretch of single track divided into track sections, two signals along said track for governing traffic in one direction, means including a line relay for controlling each of said signals, means including a polarized relay for causing the operation of the signals in one order when a train passes along the trackway in the direction governed by said signals and in a different order when the train passes along the trackway in the opposite direction, and means operated by the train upon entering the stretch while traveling in said opposite direction and located at a point in advance of the train for controlling the polarized relay.

1,380,146. CUTTER-TIP. JOSEPH L. HILLER, Mattapoisett, Mass. Filed Dec. 15, 1919. Serial No. 344,904. 10 Claims. (Cl. 83—11.)



1. A cutter tip, for use with rotary beater shanks, said cutter tip consisting of a suitable piece of material of truncated regular tetrahedral form having two triangular surfaces perpendicular to each of two opposite edges.

1,380,147. CANOPY FOR ELECTRIC-LIGHT FIXTURES. GEORGE W. HOAR, Waltham, Mass., assignor, by direct and mesne assignments, to Service Electric Manufacturing & Supply Company, a Corporation of Massachusetts. Filed Oct. 22, 1920. Serial No. 418,750. 3 Claims. (Cl. 240—87.)

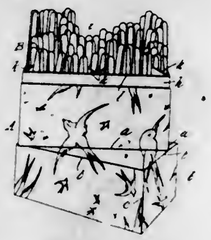


1. In a device of the class described, the combination with a tube or pipe projecting from a wall, of a member surrounding the tube or pipe for giving the desired finish, and a clamping collar also surrounding the tube or pipe and swiveled to the member, one of said parts having resilient fingers and the other having cam faces acting on the fingers as the collar is turned thereby to cause said fingers to be clamped between the cam faces and the tube or pipe and to be forced against the pipe with sufficient pressure to hold the member from movement longitudinally of the pipe.

1,380,148. DEVICE FOR DISPLAYING THE COVERING OF BOXES AND OTHER CONTAINERS. VERNON A. JOY, New York, N. Y. Filed Mar. 12, 1921. Serial No. 451,857. 5 Claims. (Cl. 40—126.)

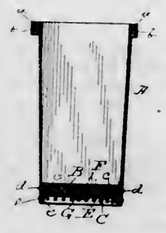
1. A device for displaying the covering material of containers, comprising a flat part made of the covering ma-

terial which it is proposed to use on the containers and which is cut and lined to represent the container, and a



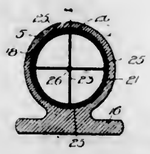
flat part arranged above said first mentioned part and which is provided with a representation of the interior of the container.

1,380,149. ICE-CAN. CHARLES KAPPEL, Chicago, Ill. Filed Mar. 25, 1920. Serial No. 368,513. 4 Claims. (Cl. 220—68.)



1. In an ice can, a body having side walls and a double bottom comprising upper and lower spaced plates, the lower plate having a plurality of openings therein through which is introduced a plastic heat insulating material in liquid state to completely fill the space between said bottoms, and means for sealing said openings.

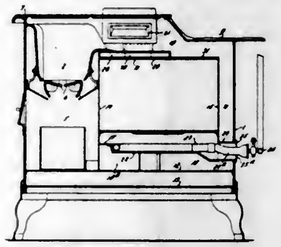
1,380,150. FRONT SIGHT FOR GUNS. CHARLES R. KEERAN, Chicago, Ill. Filed Nov. 16, 1917. Serial No. 202,277. 4 Claims. (Cl. 33—47.)



1. A front sight for guns, consisting of a hood secured to the gun barrel, a shell removably positioned within the hood, the engaging surfaces of the shell and hood being tapered, permitting a tight fit therebetween if desired, and coöperating means on the hood and shell permitting the entrance of the latter only when it is in a predetermined rotative position relative to the hood, and cross hairs mounted within the shell, substantially as described.

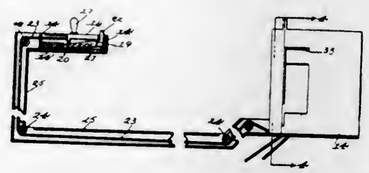
1,380,151. COMBINED GAS AND COAL RANGE. FRANK V. KNAUSS, Portsmouth, Ohio. Filed Mar. 19, 1919. Serial No. 283,569. 2 Claims. (Cl. 126—36.)

1. A combined solid fuel and gas burning stove comprising an outer casing and an oven casing within the outer casing and therewith forming a solid fuel burning chamber at one side of said casings and a down-draft flue for said chamber surrounding the top, opposite side and bottom of said oven casing, a stack flue for said down-draft flue, said oven casing having a centrally recessed base and a double-walled top, the double-walled top providing an intermediate flue communicating with the interior of the



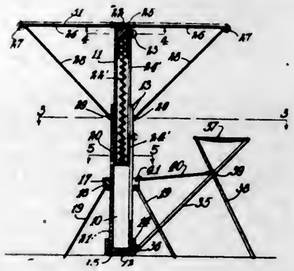
oven and said stack flue, a conduit joined to said casings and extending horizontally through said down-draft flue at the oven base providing a constantly open air passage into the oven chamber, and a gas burner disposed within the recess of said oven base having a gas inlet pipe neck extending through said air passage.

1,380,152. DIRECTION-INDICATOR. GEORGE KOMLOSY, Yonkers, N. Y. Filed May 5, 1920. Serial No. 379,094. 2 Claims. (Cl. 74—5.)



1. In a signaling system for automobiles, a mechanical switch in front of the driver's seat, comprising a casing, a top plate on said casing having two parallel longitudinal slots, two recessed blocks within said casing, springs supporting said blocks at one end, buttons upon the upper ends of said blocks projecting above the top plate, sliding plates in said casing, a pair of lower projections for each plate adapted to engage with their projections the recesses of said block, and cables connecting said sliding plates with the signaling means of said system, said buttons adapted to be operated for disengaging said projections from the recesses in said block for slackening said cables.

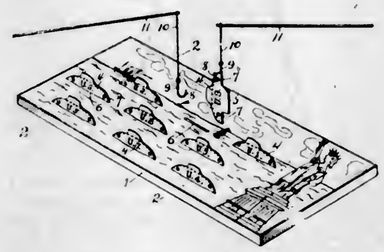
1,380,153. PORTABLE TABLE AND CHAIR. MICHAEL KOTUN, New Geneva, Pa. Filed Dec. 7, 1920. Serial No. 428,880. 3 Claims. (Cl. 45—11.)



1. In a collapsible table, a tubular pedestal comprising a lower outer section and an upper inner telescopic section,

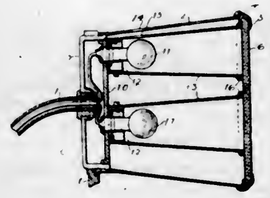
said lower section being formed with a bayonet slot comprising a long vertical arm, and a short arm at its upper end, a pin on said upper section near the lower end thereof, said upper section being also formed with a bayonet slot comprising a long vertical arm, and a short vertical arm at its upper end, a head slidable in the upper section, a pin on said head engaging in the last mentioned slot, and a series of arms hinged to said head and adapted to support a table top, and a coiled tension spring normally urging said head into said upper section.

1,380,154. GAME. LOUIS LAVAL, Kansas City, Mo. Filed Sept. 23, 1918. Serial No. 255,264. 2 Claims. (Cl. 46—56.)



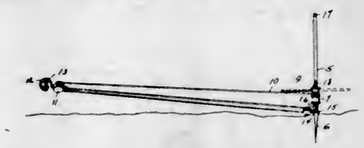
1. In a game of the kind described, a base having in its upper side a vertical slot, and a relatively thin flat removable member having adjacent to its ends respectively at its lower edge two flat portions adapted to rest upon said base and provided intermediate of said flat portions with a keel portion adapted to enter said slot, the end edges of the keel portion converging downwardly toward each other, said removable member having respectively adjacent to its ends over said flat edge portions two transverse perforations, either of which is adapted to receive a removing hook, substantially as set forth.

1,380,155. SIGNAL-LAMP. WILLIAM FRANCIS MCMAHON, Johnstown, Pa. Filed Aug. 27, 1917. Serial No. 188,327. 1 Claim. (Cl. 177—329.)



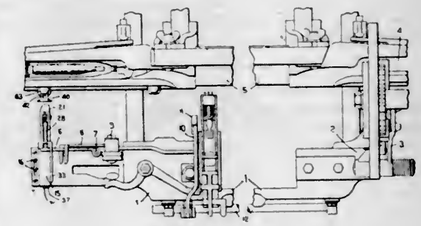
A signal lamp including a frusto-conical casing, a back at the smaller end of said casing, a diaphragm held by the back, electric light bulbs carried by said diaphragm and arranged in triangular relation, flaring housings within said casing having their smaller ends fitted over said bulbs and abutting against said diaphragm, collars received within the smaller ends of the housings and secured thereto, said collars having flanges secured to the diaphragm, a transparency at the larger end of said casing lying against the large ends of said flared housings and made opaque except at areas defined by the larger ends of the housings with signal indicia on such areas, bands around the flared ends of the housings, said casing and housings having registering apertures at the sides thereof, and means for selectively lighting said electric bulbs.

1,380,156. PULLING IMPLEMENT. HERMAN EUDELLE MOORE, Tallahassee, Fla. Filed May 3, 1920. Serial No. 378,422. 1 Claim. (Cl. 254—150.)



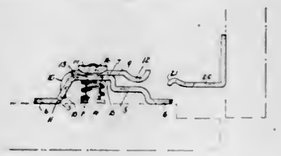
A device comprising a bar having a flattened lower end and a handle at its upper end, a drum rotatively mounted upon the bar, an eye upon the drum, a bar adapted to pass through said eye, a pawl and ratchet connection between the drum and the bar, pulleys and a cable passing over said pulleys and engaging the drum.

1,380,157. NEEDLE-FEELER. HERBERT NICHOLS, Holyoke, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 7, 1920. Serial No. 379,508. 5 Claims. (Cl. 139—85.)



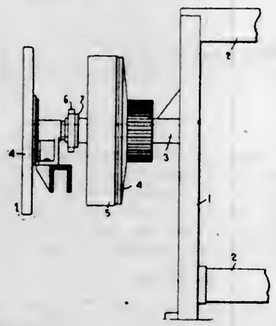
1. A feeler mechanism for looms comprising an impinging member adapted to engage and be moved forwardly by the running filler carrier upon a detecting beat, a detecting member movable with and with respect to the impinging member, means actuated by movement of the detecting member with respect to the impinging member followed by forward movement of the detecting member with the impinging member for initiating filling replenishment, a locking device adjacent the said members acting to lock the detecting member against movement with respect to the impinging member, and means carried by the lay for releasing the locking device when on the beat up the detecting member has reached a predetermined position of proximity to the path of travel of the running filling carrier.

1,380,158. SPRING CATCH AND LOCK. WILLIAM C. REISCH, Plantsville, Conn. Filed Dec. 21, 1920. Serial No. 432,228. 3 Claims. (Cl. 292—70.)



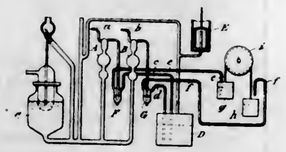
1. A spring catch and lock, comprising a strip formed with an arch and a shoulder, a catch resting upon said arch and formed with a nose, a stud extending through said arch and catch, a locking plate secured to the outer end of the stud, and provided with bearings adapted to be turned into the said catch, a locking finger adapted to be entered between the catch and shoulder.

1,380,159. HANDWHEEL FOR LOOMS AND OTHER MACHINES. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 5, 1920. Serial No. 401,489. 5 Claims. (Cl. 74—33.)



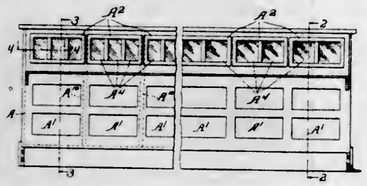
1. A hand wheel for manually rotating a power driven shaft comprising a hub secured to the shaft, a wheel body rotatably mounted on the hub, and means, automatically unlocked by centrifugal action upon the power driven rotation of the shaft and hand wheel, for locking the wheel body to the hub.

1,380,160. GAS-ANALYZING APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden, a Corporation. Filed Jan. 26, 1920. Serial No. 354,282. 2 Claims. (Cl. 23—3.)



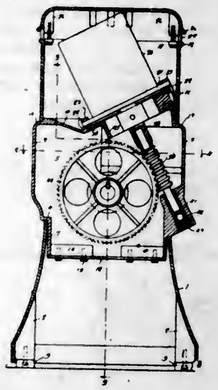
1. A gas analyzing apparatus provided with two or more primary measuring vessels, said vessels being arranged so that alternately the gas from one of these measuring vessels passes through the remaining members of the apparatus, while the gas from the remaining vessel or vessels flows past these members.

1,380,161. DISPLAY-COUNTER. WILLIAM T. SHERER, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,108. 2 Claims. (Cl. 211—11.)



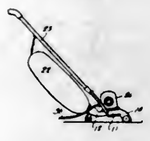
1. As a new article of manufacture, a display counter subdivided into vertical sections, having a row of superimposed drawers, in the rear of each section and a group of separate display pockets arranged on the front of each section, in horizontal alinement, adjacent but beneath the top of the counter, the number of pockets in each section equaling the number of drawers therein.

1,380,162. ELECTRIC POWER MECHANISM. MILTON H. SPIELMAN, Cleveland, Ohio. Filed Sept. 8, 1919. Serial No. 322,593. 12 Claims. (Cl. 74—56.)



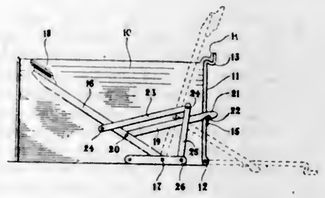
1. A power plant comprising a housing having a plurality of rectangular portions, one of said portions constituting a base, a power shaft extending laterally from one of the portions, a motor having an inclined armature shaft within one of the portions and connected with the power shaft, said motor and power shaft being disposed one above the other.

1,380,163. VACUUM-CLEANER SWITCH-OPERATING MECHANISM. MILTON H. SPIELMAN, Cleveland, Ohio, assignor to The Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Dec. 26, 1916, Serial No. 138,758. Divided and this application filed Sept. 8, 1919. Serial No. 322,594. 9 Claims. (Cl. 15—60.)



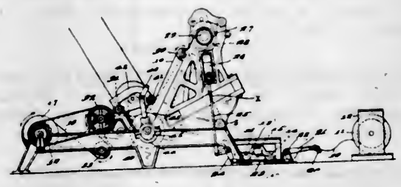
8. A vacuum cleaner having a swinging propeller handle arm thereon and an electric switch therein, coöperating means between the arm and the switch for closing the switch when the arm is swung to propelling position and for opening the switch when the arm is swung to non-propelling position.

1,380,164. AUTOMATIC MAIL-BOX SIGNAL. SIDNEY E. STAFFORD, Ashdown, Ark. Filed Oct. 8, 1920. Serial No. 415,467. 2 Claims. (Cl. 232—35.)



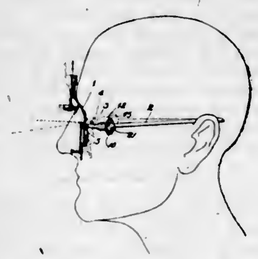
1. The combination with a mail box including a movable door, of a lug carried by said door and projecting beyond the edge thereof, a lever pivotally mounted on the side of said mail box, an arm pivotally connected at one end to said lever, said arm provided with a notch adjacent its other end adapted to receive a portion of said lug whereby when said door is opened said arm and said lever will be moved from their normal position, and means to limit the forward and rearward movement of said lever substantially as described.

1,380,165. WIRE-FENCE LOOM. LAFE SWANK and JAMES E. VAN DEVENTER, Anderson, Ind., assignors to Dwiggins Wire Fence Company, Anderson, Ind., a Corporation of Indiana. Filed Jan. 23, 1919. Serial No. 272,641. 2 Claims. (Cl. 140—134.)



1. In a fence-fabric machine, the combination of supports between which longitudinal wires are to advance step-by-step, of tension means back of said supports, independent storage rolls back of the tensioning means and delivering independent wires thereto, means acting upon said wires between the tensioning means and storage rolls for intermittently supplying slack in said wires during a period of non-movement of said wires immediately beyond the tensioning means, means acting upon said wires beyond said supports for continuously advancing said wires, and a reciprocatory member acting transversely on the wires behind said continuous advancer for varying the effect of said continuous advancer on the wires between said supports.

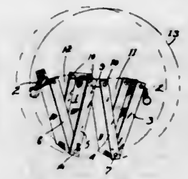
1,380,166. TRIAL SPECTACLE-FRAME. CHARLES F. WALL and FREDERICK HARKER, Philadelphia, Pa., assignors to Wall & Ochs, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 21, 1919. Serial No. 332,224. 7 Claims. (Cl. 88—20.)



4. A trial spectacle frame comprising temples, each temple including front and rear parts, a gear connected to one of said parts, and a rack carried by the other of said parts, the said gear being in engagement with the said rack whereby upon rotation of the said gear angular adjustment between the said parts is effected.

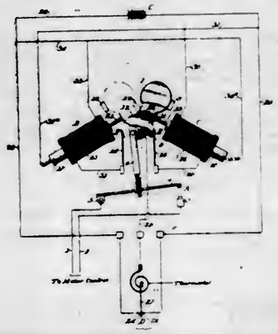
1,380,167. COMBINED HAMMOCK AND KNAPSACK. SVANTE WESTER, San Francisco, Calif. Filed Feb. 24, 1920. Serial No. 360,612. 6 Claims. (Cl. 224—9.)

1. A hammock body in combination with an edging of a stiffer material, said material divided, on each side, into four longitudinal sections, the outer sections pivotally connected to the next adjacent sections and adapted, when turned at right angles to the body of the hammock, to



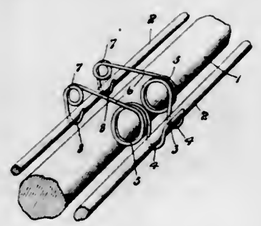
swing upon said pivotal points to form two pockets, said pockets connected by links and pivots and adapted to swing thereupon in knapsack form.

1,380,168. THERMOSTATIC SWITCH. GEORGE H. WHITTINGHAM, Bancroft Park, Md., assignor to Monitor Controller Company of Baltimore, a Corporation of Maryland. Filed Dec. 20, 1917. Serial No. 208,172. 5 Claims. (Cl. 175—336.)



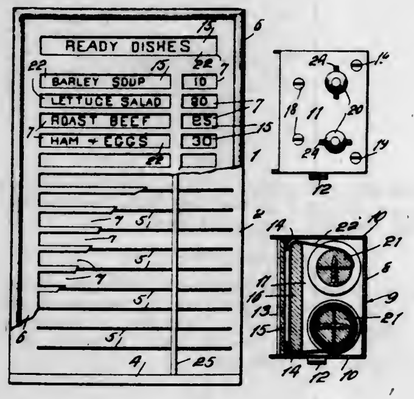
4. The combination with a controlled member and a magnet for actuating the same of a circuit for the magnet including a switch, means operated by the magnet for establishing a circuit for the magnet in shunt to said switch immediately upon the closure of said switch, and means operated by the magnet for deënergizing the magnet after it has moved the controlled member.

1,380,169. SPARK AND THROTTLE ROD TENSION APPLIANCE. FLOYD G. WITHROW, Grand Rapids, Mich. Filed July 29, 1920. Serial No. 399,737. 4 Claims. (Cl. 74—39.)



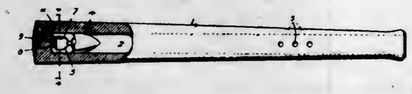
4. In combination, a steering post, spark and throttle rods paralleling the post, one at each side thereof, and a single wire spring means detachably connected at its ends to the rods and passing across and bearing against the post, substantially as described.

1,380,170. CHANGEABLE ADVERTISING-SIGN. WILLIAM A. ZEIDLER and MAX L. FERENTZ, New York, N. Y. Filed Aug. 23, 1919. Serial No. 319,322. 4 Claims. (Cl. 40—86.)



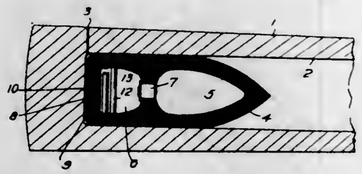
1. In a device of the class described, a sign with a top and bottom, and a number of transverse partitions, a cover with the openings registering with the spaces between said partitions, removable boxes with glass fronts adapted to be inserted in the spaces between said partitions and opposite said openings, changeable signs in said boxes and means for shifting said signs.

1,380,171. ORDNANCE. CHARLES G. ABBOT, Washington, D. C. Filed Jan. 11, 1919. Serial No. 270,686. 2 Claims. (Cl. 89—1.)



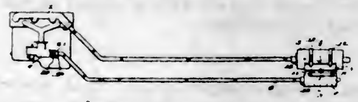
2. The combination, with a smooth-bore gun having pressure relieving vents near the muzzle, of a projectile having a chamber containing a propellant, and being provided with discharge passages, whereby the projectile is propelled forwardly and rotated around its axis when the propellant is actuated, the charge being so proportioned that the rotative force is terminated through the exhaustion of the propellant before the projectile leaves the gun.

1,380,172. SELF-PROPELLED PROJECTILE. CHARLES G. ABBOT, Washington, D. C. Filed Jan. 11, 1919. Serial No. 270,687. 3 Claims. (Cl. 102—29.)



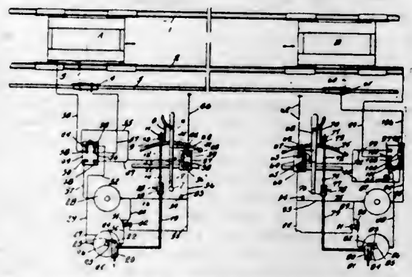
1. A self-propelled projectile, having a chamber, a propellant disposed within the chamber, the body portion of the projectile having a bore tangent to the chamber wall, and terminating at the rear end of the projectile, and a baffle within the chamber for preventing circulatory currents therein.

1,380,173. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. ARTHUR JAMES ABEL, Brooklyn, N. Y. Filed Apr. 9, 1920. Serial No. 372,695. 4 Claims. (Cl. 123—119.)



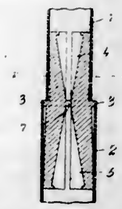
1. In an attachment for internal combustion engines, the combination of a cylinder for mixing partly burned gases and fresh air, a saddle secured to said cylinder, a saddle adapted to be secured against the muffler of an engine, means for securing said saddles to each other, and means operable to secure the second said saddle to the muffler of an engine.

1,380,174. AUTOMATIC STOP MECHANISM FOR RAILROADS. ROBERT C. ALBURY and LEFFY T. HAYMAN, Tampa, Fla. Filed Dec. 28, 1920. Serial No. 433,726. 5 Claims. (Cl. 246—67.)



5. In combination, a railway, a third rail insulated therefrom, a locomotive on the railway, contact means carried by and insulated from the locomotive and moving in engagement with the third rail, a throttle lever on the locomotive biased for closed position, a latch for holding the lever open, latch releasing means including an electric motor, a dynamo on the locomotive driven at all times thereby, means for normally disconnecting the motor from the dynamo, means for connecting the motor to the dynamo under desired conditions, normally operable means for cutting said connecting and disconnecting means out of circuit with the railway and third rail, means for changing the direction of current through the locomotive for causing the current to flow at all times in the same direction through the said connecting and disconnecting means, and means operable by the closing of the throttle lever to short circuit the locomotive and said means to the exclusion of said dynamo and motor, substantially as described.

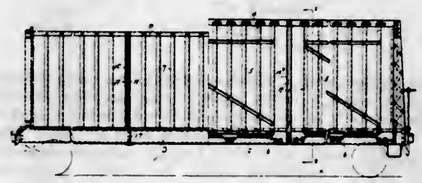
1,380,175. COUPLING-SLEEVE FOR TUBULAR BODIES. WILHELM GUSTAV ANDERSEN and JOHANNES HENRIK BREVIG, Christiania, Norway. Filed June 17, 1920. Serial No. 389,783. 2 Claims. (Cl. 287—1.)



1. A bisected coupling sleeve comprising two separate half sleeves, each of which is provided with a separating

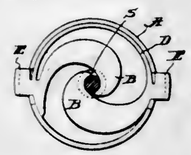
plate for the abutment of the tubes to be coupled together, and sleeve parts projecting from each side of said plates and fitting into the ends of the said tubes, said half-sleeves leaving between them a space adapted for the driving in of wedges.

1,380,176. CANE-CAR. HARRY T. ANDERSON, Butler, Pa., assignor to Standard Steel Car Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 10, 1921. Serial No. 436,260. 5 Claims. (Cl. 105—376.)



1. A railway car having a partition comprising side posts each composed of two Z-bars having corresponding flanges placed together and planks secured to the said flanges.

1,380,177. FASTENER. LOUIS ARKIN, Boston, Mass. Filed Apr. 10, 1920. Serial No. 372,877. 5 Claims. (Cl. 24—211.)



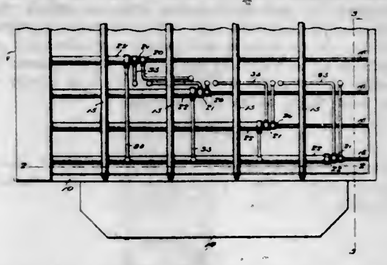
1. A socket member of a fastener comprising a casing having a stud receiving aperture, a pair of stud retaining arms curved around opposite sides of said aperture within the casing, a curved spring within the casing, and a pair of stud releasers extending through the casing, one of said arms and one of said releasers having a common junction with said spring on one side of said aperture and the other of said arms and the other of said releasers having a common junction with said spring on the other side of said aperture.

1,380,178. METHOD OF MAKING WROUGHT IRON. JAMES ASTON, Pittsburgh, Pa., assignor to A. M. Byers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1920, Serial No. 356,309. Renewed Sept. 7, 1920. Serial No. 408,773. 4 Claims. (Cl. 75—27.)

1. In the manufacture of wrought iron, the steps consisting of preheating the comminuted or granulated product of a steel-making operation of substantially the same composition, feeding the preheated material into a bath of iron silicate slag, and forming a ball therein.

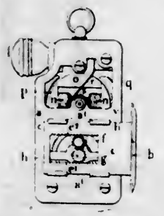
1,380,179. APPARATUS FOR USE IN ASSORTING CIGAR-WRAPPERS. THOMAS BAER and WILLIAM H. BITLER, Terre Hill, Pa. Filed Aug. 10, 1918. Serial No. 249,308. 2 Claims. (Cl. 131—56.)

2. The combination with a plurality of article supporting devices spaced apart, of a plurality of sets of shafts, the shafts of each set being concentric and differing in length from the shafts of an adjacent set, each shaft being adapted for connection with a separate element of a register, and one of the shafts of each set serving to rotatably mount the other shafts of that set,



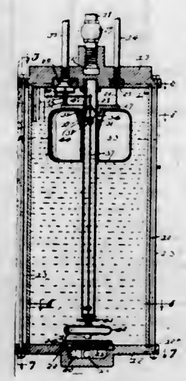
and means for operating selected shafts of various sets from a common point adjacent a given article supporting device.

1,380,180. MAGNETO POCKET-LAMP. GEORGES MAXIME BEAUDOT, Paris, France, assignor to Georges Maxime Beaudot and Auguste Anatole Lion, Paris, France. Filed Dec. 9, 1920. Serial No. 429,541. 4 Claims. (Cl. 240—8.5.)



1. In a magneto pocket lamp, a sliding and spring pressed push-piece having two racks, pinions meshing with each other, and one pinion meshing with one rack, and the other pinion meshing with the other rack, and means for operating the movable part of the magneto from one of the said pinions.

1,380,181. PUMP. ERASMUS W. BECK, Griffin, Ga. Filed Nov. 13, 1919. Serial No. 337,750. 5 Claims. (Cl. 103—8.)



1. A pneumatic pump having water inlet and outlet passages, the former being valved, and pressure supply and exhaust valves controlling pressure inlet and relief ports, a float actuatable by the level of the water in the casing or reservoir, a valve actuating element movable to reverse the positions of said pressure inlet and

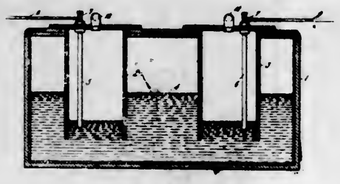
exhaust valves and arranged in the path of movement in one direction of said float, a buoyantly actuated locking device for maintaining said valve actuating element in position to maintain said inlet and exhaust valves respectively in their open and closed positions, and means actuatable by said float at the limit of its movement in the opposite direction for actuating the locking device to release said valve actuating element.

1,380,182. WELL-LINER CLAMP. ROBERT J. BIGELOW, Santa Anna, Tex. Filed May 17, 1920. Serial No. 382,028. 3 Claims. (Cl. 166—4.)



1. A liner for wells comprising a cylinder made of resilient material and having a longitudinal slit therein so that it may be contracted, said casing having holes therein for receiving a breakable strip, some of said holes being arranged adjacent the split edges and other being diametrically opposite the split.

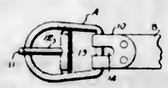
1,380,183. GAS-GENERATOR. MARTIN BOISEN, Sandusky, Ohio. Filed July 6, 1920. Serial No. 394,168. 2 Claims. (Cl. 204—5.)



1. An apparatus of the character described, comprising a decomposing tank containing water, a pair of tubular cells located in the tank having open lower ends submerged in the water, an anode in one cell having its lower end normally submerged in the water in the cell, a cathode in the other cell having its lower end normally submerged in the water in the cell, said anode and said cathode terminating at their lower ends in a plane above the lower ends of the cells in which they are located, oxygen and hydrogen tanks communicating respectively with the upper portions of said cells, and a source of electricity included in circuit with said anode and cathode.

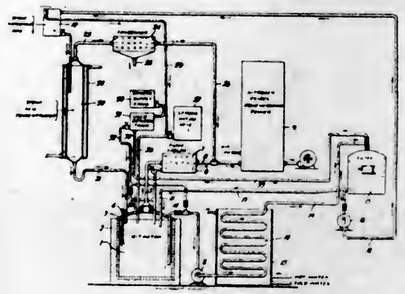
1,380,184. ATTACHMENT FOR TAPE-MEASURES. GEORGE ALBERT BRANDENBURG, St. Francis, Kans. Filed Jan. 27, 1919. Serial No. 273,369. 4 Claims. (Cl. 33—137.)

1. The combination of a tape, an end clip comprising a bent strip having the ends bent back to receive the end of the tape therebetween and a means for securing the end of the tape therebetween, a portion of said clip being slitted between the side edges thereof longitudinally of the clip, a loop, said loop comprising side portions and connecting end portions, one of the end portions extending through the bent portion of the clip and forming an opening with the slitted portion of the clip, a member extending transversely of the loop, and having its ends pivotally mounted in the side portions of the loop, at a



point substantially midway between the connecting end portions, and a device fixed to said member extending longitudinally of the loop, said device having a bent end portion forming a spur, said device being of such a length that when moved on pivoted member in one direction, the spur will be positioned within the opening of the clip, and when moved on the pivoted member in the opposite direction, the device will contact with the other connecting end member, with the spur extending outward so that the said spur may be used to position one end of the tape.

1,380,185. PROCESS OF NITRATING BENZOL. THEODORE J. BREWSTER, Perth Amboy, N. J. Filed Nov. 20, 1917. Serial No. 202,930. 12 Claims. (Cl. 23—24.)



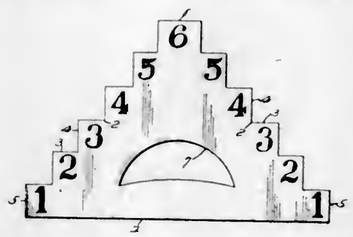
1. In the nitration of benzol, the process which comprises reacting upon benzol with nitric acid in the presence of a mercury compound in a suitable reaction vessel while continuously withdrawing portions of the mixture, cooling the withdrawn portions to produce crystalization, filtering out the crystals and returning the filtered liquid to the reaction vessel.

1,380,186. PROCESS OF MAKING NITROPHENOLIC COMPOUNDS. THEODORE J. BREWSTER, Perth Amboy, N. J. Filed Oct. 2, 1918. Serial No. 256,524. 4 Claims. (Cl. 23—24.)

1. The process of making picric acid including the steps of sulfonating phenol, cooling to approximately 50° C., diluting, nitrating to the mono-nitro stage by adding nitric acid slightly in excess of that required for introduction of one nitro group while maintaining the temperature below 70° C. and thereafter nitrating to tri-nitro stage by adding further nitric acid and permitting the temperature to rise above 70° C.

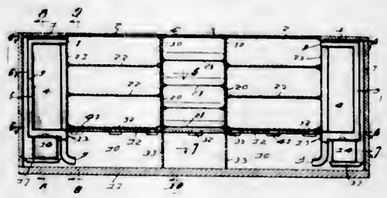
1,380,187. MEASURE AND GAGE. CARRIE H. BROSE, San Diego, Calif. Filed June 20, 1918. Serial No. 241,000. 1 Claim. (Cl. 33—168.)

A measurer and gage comprising a triangular shaped member having one edge formed straight and the two remaining edges provided with notches, whose sides are respectively perpendicular to and parallel with the straight



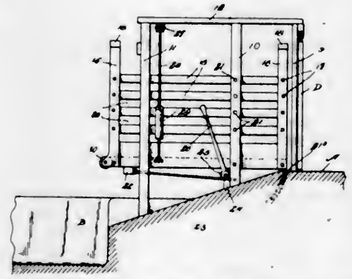
edge, the notches beginning with the straight edge, being progressively designated toward the topmost notches where a single designation serves in common for the two.

1,380,188. REFRIGERATOR. RAYMOND K. BURRITT, Seligman, Ariz. Filed Feb. 13, 1919. Serial No. 276,703. 6 Claims. (Cl. 62—37.)



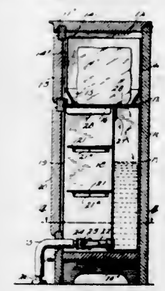
2. In a refrigerator, a refrigerating compartment, a plurality of display compartments for perishable commodities, means for circulating the air of said latter compartments through the refrigerating compartment to absorb the heat of the air, and removable division plates whereby the said circulation may be confined to one or more of the display compartments, the division plates having attached on their edges a fabric binding to prevent the leakage of air past them.

1,380,189. STOCK-CHUTE FOR DIPPING-VATS. CLEMENT P. BURT, Wallis, Tex. Filed June 21, 1920. Serial No. 390,635. 2 Claims. (Cl. 119—158.)



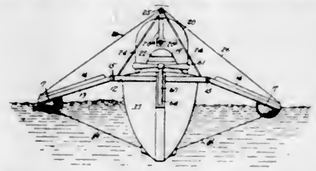
1. A device of the character described comprising two pairs of posts extending vertically and arranged in spaced relation, a chute including sides each formed of a plurality of slats connected at their ends and each pivotally connected with the posts of one pair, said pivot points being nearer one end of the chute than the other whereby the discharge end of the chute will be heavier, pulleys connected with the other pair of said posts, cables secured to said longer end of the chute and trained about said pulleys, counterbalancing weights carried by said cables for holding said discharge end normally elevated; and means connected with said chute and said first named pair of posts whereby to serve as a brake for controlling the speed of movement of said chute.

1,380,190. REFRIGERATOR. MAX COHEN, New York, N. Y., assignor of one-half to Jonas Rosenstock, New York, N. Y. Filed Apr. 17, 1920. Serial No. 374,736. 1 Claim. (Cl. 62—57.)



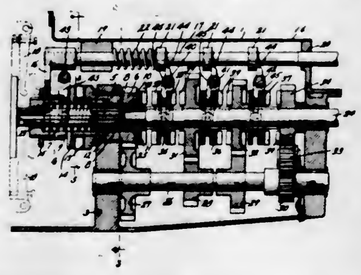
A refrigerator including a body, a water tank removably supported at its lower end in said body and having an open top, said tank being U-shaped in cross section presenting forwardly extending sides and defining at the front of the tank a storage compartment, a removable cover on said tank, said cover forming a closure for said storage compartment and provided with rearwardly extending members bridging the rear open-top portion of said tank, there being an ice chamber above said tank, a removable lining in said ice chamber having an open top and an open bottom, said lining resting on said cover, the back of the lining resting on said rearwardly extending members of the cover.

1,380,191. FLYING-CRUISER. NATHAN G. COX, Livengood, Alaska. Original application filed Nov. 19, 1918, Serial No. 263,212. Divided and this application filed Oct. 18, 1919. Serial No. 331,672. Renewed Apr. 1, 1921. Serial No. 457,705. 4 Claims. (Cl. 244—12.)



1. An aeroplane, comprising a hull, wings projecting from the hull and adapted to support the hull in the air, said wings comprising sections hinged together, and the outer sections of said wings adapted to be moved downwardly and coöperate in supporting the hull in upright position when the aeroplane is at rest.

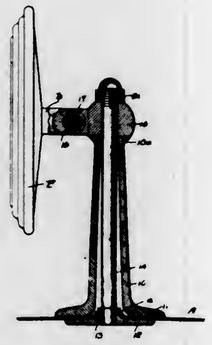
1,380,192. TRANSMISSION-GEARING. WILLIAM STANTON CUNNINGHAM, Shreveport, La. Filed Apr. 14, 1920. Serial No. 373,733. 11 Claims. (Cl. 74—59.)



1. A transmission gearing, comprising a drive shaft, a driven shaft in alinement with the drive shaft, a coun-

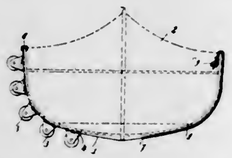
tershaft parallel to the driven shaft, gear wheels fixed to the countershaft and meshing with gear wheels loose on the drive shaft and the driven shaft, clutches for locking the gears on the drive and driven shafts to said shafts, and foot levers operating the clutches.

1,380,193. HOLDER FOR MIRRORS AND OTHER ARTICLES. HARRIS ARMISTEAD DUGUID, Brooklyn, N. Y. Filed Dec. 9, 1920. Serial No. 429,449. 5 Claims. (Cl. 45—97.)



1. A holder of the class described comprising a supporting column in the form of a tubular standard, the base of which forms a clamp element adapted to rest on a fender or other support, a second clamp element adapted to be disposed at the under side of the fender or other support, a post rising from the second clamp element and extending through and above said tubular standard, an element supported on said standard at the top, means to secure to said element the article to be supported, said post extending through said element, and means on the post at the upper end to act on said post and said standard for causing the clamp sections to exert a clamping action on the support.

1,380,194. DEVICE FOR LAUNCHING LIFEBOATS. HUBERT ELSEN, Antwerp, Belgium. Filed July 14, 1920. Serial No. 396,103. 3 Claims. (Cl. 9—22.)

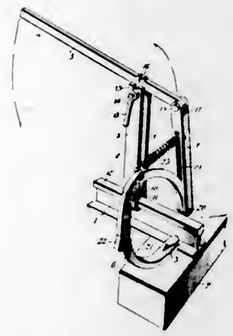


1. In a device of the kind described in combination protecting members, flexible attaching means holding said members together and means whereby said attaching means can be secured to a boat.

1,380,195. PROCESS OF MAKING POTASH. JOSEPH ENDLER, Rochester, Pa. Filed Feb. 5, 1919. Serial No. 275,244. 2 Claims. (Cl. 23—22.)

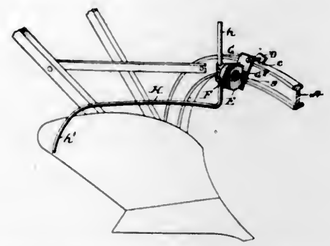
1. The process of making potash from potash-bearing plants consisting in reducing the plants to ashes, and subjecting the ashes to the action of steam to provide moisture for admixture therewith to extract it by lixiviation.

1,380,196. SPIKE-PULLER. JONAS B. ERICKSON, Iron Mountain, Mich. Filed May 11, 1920. Serial No. 380,532. 5 Claims. (Cl. 254—21.)



1. A spike puller, comprising a standard, a lever fulcrumed on the standard, a link pivotally connected to one end of the lever, and a curved claw pivotally connected to the link and disposed at an angle to the plane of the lever.

1,380,197. WEED-TURNING ATTACHMENT TO PLOWS. GROVER C. FANNING, Wichita, Kans. Filed Feb. 20, 1917, Serial No. 149,833. Renewed Jan. 4, 1921. Serial No. 435,011. 2 Claims. (Cl. 97—33.)

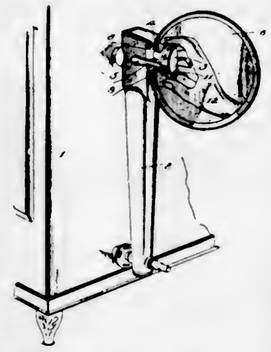


1. A weed turning appliance, comprising a weed turning member having an angularly disposed end rigid therewith, a rotative clamping member having means forming a bearing within which said end may be rotated, relatively to the member; an axial member extending through the clamping member and with which said clamping member and weed turning member may be rotated about an axis which is substantially at right angles to the axis of rotation of the angularly disposed end of the weed turning member, said axial member having a bearing at one end for the angularly disposed end of the weed turning member and being confined against axial movement relatively to said clamping member and movable longitudinally within the latter, a fixed clamping member having means for attaching it to the implement, said axial member also extending through the axis of the fixed member and said fixed and rotative clamping members having abutting faces provided with elements to engage each other and hold the rotative member against rotation when so engaged, and means on the axial member to tighten and loosen it, substantially as described and for the purpose set forth.

1,380,198. DISPLAY-CARD. CHARLES FOSTER FARNHAM, Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 3, 1920. Serial No. 428,049. 8 Claims. (Cl. 40—20.)

2. A display card having an opening to receive the periphery of a regulating wheel, the display card having

the representation of a hand with the fingers positioned in respect to the opening to indicate that they are grasp-



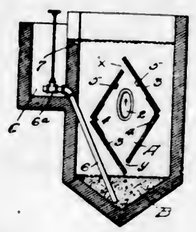
ing the periphery of the wheel, and means for holding the card in position in respect to the wheel.

1,380,199. WEIGHING-FORK. LOUIS FELIX, Warba, Minn. Filed Nov. 21, 1919. Serial No. 339,656. 2 Claims. (Cl. 265—67.)



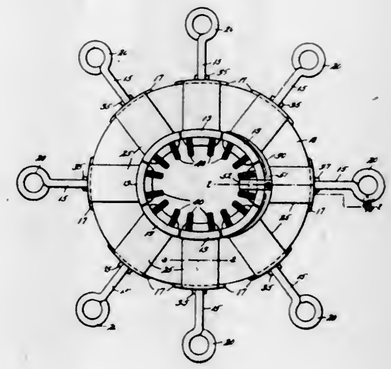
1. In a weighing attachment of the character described a housing side and end walls, a cover for the housing, a dial carried by the cover, a supporting plate extending through the housing, a shaft rotatably supported by the plate and extending through the cover and dial, a pointer carried by the upper end portion of the shaft for cooperating with the dial, a driving shaft rotatably mounted in the housing and having gear connection with the first mentioned shaft, a handle, a rack connected with said handle and extended into said housing, and a gear carried by the driving shaft and meshing with the rack.

1,380,200. APPARATUS FOR PURIFYING AND DISPOSING OF SEWAGE. WILLIAM C. FERGUSON, St. Louis, Mo. Filed July 22, 1919. Serial No. 312,620. 2 Claims. (Cl. 210—6.)



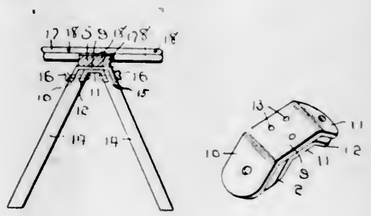
1. An apparatus for purifying and disposing of sewage, comprising a combined sedimentation and flotation chamber, a raw sewage inlet pipe, an effluent discharge pipe, said chamber communicating with said pipes and being arranged in a lower horizontal plane than said pipes, a sludge chamber adapted to hold a body of liquid whose level is above the upper end of said flotation and sedimentation chamber, and passageways leading from the upper and lower ends of said sedimentation and flotation chamber to said sludge chamber.

1,380,201. HAT STRETCHER AND SHAPER. DAVID FREEDLINE, Brooklyn, N. Y. Filed Mar. 17, 1920. Serial No. 366,562. 7 Claims. (Cl. 223—33.)



1. A hat stretcher and shaper, comprising a base, a series of stretching and shaping members mounted to slide radially on the said base toward and from a common center, each stretching and shaping member having a depending nut, and radial screw rods screwing in the said nuts and having their inner ends abutting against the base and having their outer ends projecting from the side edge of the base.

1,380,202. QUILTING-FRAME. WALTER F. GAGE, Smith, Nev. Filed May 6, 1919. Serial No. 295,041. 2 Claims. (Cl. 45—24.)

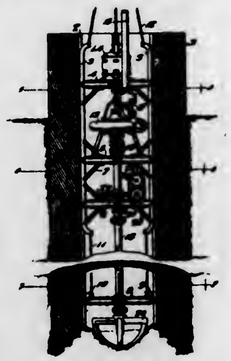


1. A quilting frame including an adjustable frame structure, leg supporting members carried by the frame structure, said leg supporting members including substantially U-shaped plates having web portions of different lengths arranged one above the other and in facial abutment, said web portions being provided with registering openings, means passing through said openings and engaged in the frame structure for maintaining the leg supporting members in position thereon, the angular extremities of the lower plate being arranged in spaced relation to the angular extremities of the upper plate to provide spaces therebetween, inclined legs having the upper terminals confined between the spaced angular extremities of the plates, and means to clamp said legs in position between said angular extremities.

1,380,203. CAISSON-DREDGE. HARVEY C. GLICK, Paris, Idaho. Filed Sept. 23, 1920. Serial No. 412,272. 5 Claims. (Cl. 255—4.)

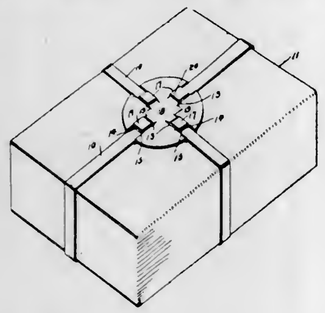
1. A caisson dredge including with a cutter head to loosen earth at the bottom of the caisson and agitate the

earth with water, a suction pump having a discharge emptying above the top of the caisson, and a suction pipe



from said pump forming the shaft by which the cutter head is revolved and having its suction end opening well down between the arms of the cutter head.

1,380,204. STRAP-LOCK FOR CONTAINERS. ROBERT C. GRIFFITH, Baltimore, Md. Filed Feb. 21, 1921. Serial No. 446,604. 7 Claims. (Cl. 24—23.)



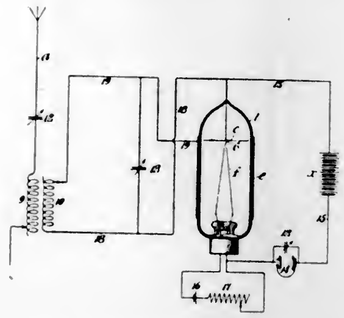
5. The combination with binding straps arranged in intersecting planes of a locking disk having radial series of inner and outer parallel slots through which the strap ends may be threaded, the extremities of the straps being crimped or folded outward to form loops to engage the edges of the inner slots, the portions or sections of the disk between the outer slots and the periphery of the disk being depressed.

1,380,205. AUTOMOBILE-PULL-OUT MECHANISM. CHARLES G. HALVORSON, Brandt, S. D. Filed Oct. 12, 1920. Serial No. 416,454. 2 Claims. (Cl. 254—166.)



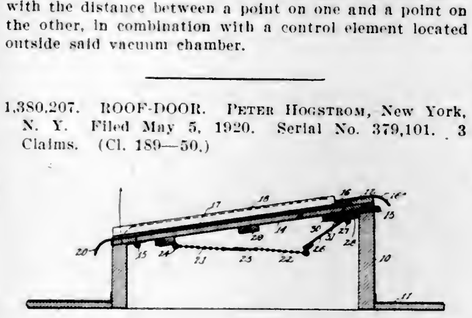
1. A pull-out mechanism for automobiles having a block and fall including a cable and guiding pulleys, means for connecting one of said pulleys to the front axle of a vehicle, means carried by the vehicle for reeling the free end of the cable, and an anchoring device for connection with the other pulley of the block and fall, and consisting of an anchor stake and a supplemental bracing stake connected with the anchor stake, said stakes being provided with foot rests to facilitate the embedding of the lower extremities thereof in the road bed.

1,380,206. VACUUM-VALVE DETECTOR. ROY ALEXANDER WEAGANT, Roselle township, Union county, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 10, 1917. Serial No. 153,935. 6 Claims. (Cl. 250—27.)



1. In a device of the kind described, a vacuum chamber, two electrodes sealed in said chamber, means for heating one of said electrodes, the said electrodes being spaced from each other and so arranged that the mean distance between said electrodes is relatively great as compared with the distance between a point on one and a point on the other, in combination with a control element located outside said vacuum chamber.

1,380,207. ROOF-DOOR. PETER HOGSTROM, New York, N. Y. Filed May 5, 1920. Serial No. 379,101. 3 Claims. (Cl. 189—50.)



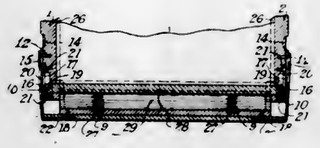
3. A roof door structure including a frame, means to hinge said frame to swing outwardly, a door hinged in said frame to swing inwardly independent of the frame and adapted to swing outwardly with said frame, and means subject to a predetermined heat and serving to restrain said inwardly swinging door against opening movement.

1,380,208. HUMIDIFIER. LEO G. HOLTSCHNEIDER, Jefferson City, Mo. Filed Sept. 30, 1919. Serial No. 327,378. 1 Claim. (Cl. 131—30.)



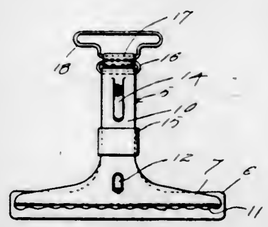
A humidifier comprising two circular casing sections fitting one upon the other, an external annular shoulder adjacent the end of the inner casing section receiving thereagainst the open end of the outer casing section, an internal annular shoulder in the outer casing section receiving thereagainst the open end of the inner casing section, each of said sections having a closed end and an open end, said closed ends tapering from said shoulders, and said sections having perforations therein adapted to be moved in or out of registration by the rotary or longitudinal movement of said sections.

1,380,209. PHOTOGRAPHIC-PLATE HOLDER. CHARLES E. HUTCHINGS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 11, 1919. Serial No. 323,184. 12 Claims. (Cl. 95—66.)



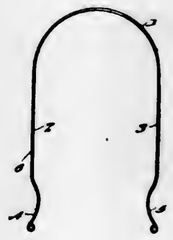
1. In a plate holder the combination with a frame for holding photographically sensitive material, dark slides insertible into the frame to protect the sensitive material from light, of a spring actuated door attached to the frame, the door being movable into an open and a closed position, and latches for holding the door against the spring pressure.

1,380,210. TROUSERS-SUPPORTING DEVICE. AMOS H JAMES, St. Louis, Mo. Filed Oct. 24, 1917. Serial No 198,207. 2 Claims. (Cl. 24—260.)



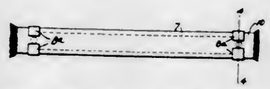
1. A supporting device having clasp arms, a spring engaging one of the arms to urge them into separated relation at the clasping ends, a means acting counter to the spring to move said arms into clasp relation, said spring being compressible to permit passage of the said means over it, and said spring extending into the path of movement of the means so as to prevent accidental return movement thereof after passage over said spring.

1,380,211. COW-TAIL HOLDER. ORLANDO B. JOHNSON, French, Idaho, assignor of one-half to R. M. McCracken, Boise, Idaho. Filed Jan. 26, 1921. Serial No. 440,109. 5 Claims. (Cl. 119—105.)



1. A cow-tail holder consisting of a leaf spring member of U-shaped form having outwardly disposed curve formations at the ends thereof.

1,380,212. SAFETY-WATCH-POCKET PROTECTOR. LEOPOLD JURGIELEWICZ, Los Angeles, Calif. Filed May 15, 1919. Serial No. 297,320. 3 Claims. (Cl. 2—151.)



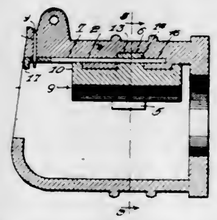
1. A device of the character described, comprising a spring strip having laterally projecting members, and a piece of fabric folded upon the strip and upon which piece of fabric the lateral members of the strip are bent to secure it to said strip.

1,380,213. UMBRELLA-HANDLE. RALPH KAMENETZKY, Brooklyn, N. Y. Filed Mar. 16, 1920. Serial No. 366,232. 2 Claims. (Cl. 135—47.)



2. A device of the character described comprising a tubular member having an open end, a looped flexible member adapted to be carried within the tubular member and extended from the open end thereof, an operating knob carried by one end of said looped flexible member, resilient means secured at one of its ends to the looped flexible member and at its other end to the tubular member, said resilient means serving to maintain the looped flexible member within the tubular member, and means carried by the tubular member and comprising a resilient pivoted lever, the free end of which is adapted for engagement with the flexible looped member to maintain the same in extended position without the tubular member.

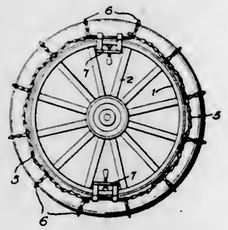
1,380,214. JOURNAL-BOX. JOSEPH P. KELLY, Belington, W. Va. Filed June 19, 1920. Serial No. 390,157. 2 Claims. (Cl. 64—20.)



2. A journal box and a bearing brass therefor, said journal box having its top integrally formed with a bearing surface for the bearing brass, said surface including

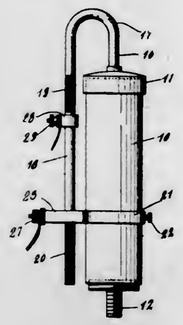
an upper straight portion, angle depending sides therefor, and lugs centrally depending from the sides, the top of the said surface having a rectangular opening providing a pocket, the bearing box having a longitudinal passage entering said pocket, a bearing brass having its lower edges flanged and the said flanges notched to engage with the mentioned lugs, flanges on the ends of the bearing brass to contact with the ends of the bearing member in the top of the journal box, said bearing brass having its top portion formed with a rectangular lug that has an opening therethrough which registers with the passage in the journal box, a key movable through the passage, entering the pocket and passing through the lug on the bearing box, and removable means, adjacent to the outer end of the bearing box, engaging with the key for locking the key to the box.

1,380,215. TIRE-CHAIN. ROY J. KLEINECK, Oxford Junction, Iowa. Filed Jan. 12, 1921. Serial No. 436,762. 2 Claims. (Cl. 152—14.)



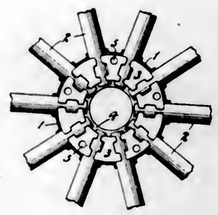
1. An anti-skid chain for tires comprising a plurality of sections adapted to be removably connected and completely encircle a tire, rods, hooks on the ends of the rods removably engaging the ends of the sections, devices engageable with the rods and adapted to straddle a wheel felly and means for actuating said last-mentioned devices to tighten the chain.

1,380,216. CIRCUIT-BREAKER. PHILIP FREEMAN KITTOE, Galena, Ill. Filed Aug. 3, 1920. Serial No. 400,968. 2 Claims. (Cl. 200—82.)



1. A circuit breaker comprising a cylinder, a spring actuated piston therein, an adjustable contact member carried by the cylinder, a movable contact member carried by the piston and normally contacting with the adjustable contact member, said movable contact member including spaced parallel arms connected at one end and means whereby pressure may be applied to the piston to move the latter against the action of the spring to separate the contact members.

1,380,217. METAL WHEEL. LAURENCE S. LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 3, 1919. Serial No. 301,455. 9 Claims. (Cl. 301—80.)



1. In a metallic wheel, a metal hub shell perforated to form sockets for the reception of metallic spokes and fastening plates welded to the converging spoke ends within said hub and in the spaces between said converging ends.

1,380,218. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Aug. 23, 1919. Serial No. 319,310. 8 Claims. (Cl. 301—64.)



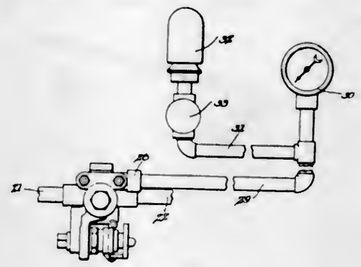
1. A metal wheel having a continuous hub portion and spokes integral therewith, said hub portion comprising one head of an I bar and said spokes being formed of the web and opposite head of the bar.

1,380,219. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1919. Serial No. 319,985. 5 Claims. (Cl. 301—64.)



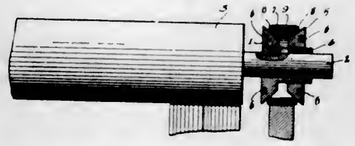
1. A metal wheel formed of a section of flanged metal bar having both edges flanged, one edge having a T head constituting a continuous rim of the wheel while the spokes are integral with said head and consist of the subdivided web and opposite flanged edge of said bar.

1,380,220. SIGNAL ATTACHMENT FOR AIR-BRAKE FEED-VALVES. EDGAR V. LAMBETH, Hot Springs, Ark. Filed Dec. 28, 1920. Serial No. 433,618. 1 Claim. (Cl. 116—55.)



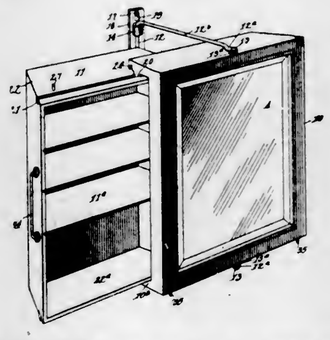
In an air brake system, the combination with a feed valve, its bracket, and the filler block disposed between the valve and the bracket; of signaling means including a member interposed between the valve and said filler member and formed with a socket at one end, a pipe connected with said socket and carrying a pressure gage and a whistle located at a remote point with respect to the valve, said member being formed with a passage leading into said socket and leading out through a port, and a valve being formed with a passage communicating at one end with said port and leading at its other end into the port formed in the wall of the valve piston chamber, the last named port being covered and uncovered by the piston in its movement.

1,380,221. INKING-ROLL TRUCK. HERBERT G. LA SOR, Los Angeles, Calif. Filed July 21, 1919. Serial No. 312,317. 7 Claims. (Cl. 101—348.)



1. A truck for inking rolls comprising a cone member having a screw-threaded hub, an opposing cone member screw-threaded for adjustment upon said hub, a split inherently contractile ring supported upon the peripheral cone surfaces of the cone members, and an expansible tire embracing the split ring.

1,380,222. COMBINED SHAVING MIRROR AND CABINET. CHARLES LICHTENBERG, Brooklyn, N. Y. Filed May 3, 1920. Serial No. 378,579. 2 Claims. (Cl. 45—135.)

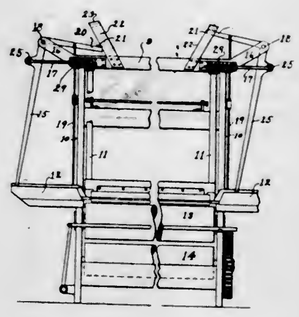


1. An article of the class described including a supporting element, a structure mounted in said supporting element to turn therein about a vertical axis, said structure presenting rearwardly extending top and bottom flanges, a cabinet on said structure at the back between said flanges, means for slidably engaging the cabinet with said flanges for projecting the cabinet beyond either side of said structure, said flanges and said cabinet presenting respectively blind guide grooves, and stop pins movable in said grooves to limit the movement of the cabinet in either direction.

1,380,223. METHOD OF PRODUCING CYANAMID FROM CALCIUM CYANAMID. JOHAN HJALMAR LIDHOLM, Wargön, Sweden. Filed June 12, 1920. Serial No. 388,677. 5 Claims. (Cl. 23—21.)

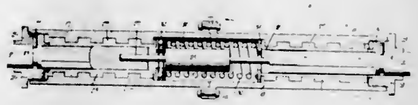
1. Method of producing cyanamid practically free from dicyandiamid, consisting in gradually supplying calcium cyanamid to a water solution and precipitating the calcium by means of carbon dioxid.

1,380,224. SHUTTLE-THROWING DEVICE. HAMILTON LINDSAY, Cleveland, Ohio, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1920. Serial No. 396,328. 10 Claims. (Cl. 139—48.)



4. In a loom, the combination with a batten frame, of a picker arm pivoted overhead thereto, a pair of springs carried by the frame, and links connecting the springs to the picker arm at a point below the pivoted connection therefor.

1,380,225. TORSIONAL EQUALIZER. HARRY G. LORD, Collinswood, N. J. Filed Feb. 17, 1919. Serial No. 277,439. 12 Claims. (Cl. 64—96.)



11. The combination in a torsional equalizer of a sleeve having two sets of oppositely formed threads; heads formed to coöperate with the threads of the sleeve; shaft sections respectively connected to said heads; a spring mounted between the heads to resist certain movements thereof relatively to the sleeve; and an anti-friction bearing mounted between one of the heads and said spring.

1,380,226. BUTTON-KNIFE. JOHN M. MCCRAY, Pueblo, Colo. Filed Oct. 19, 1920. Serial No. 417,958. 1 Claim. (Cl. 218—27.)

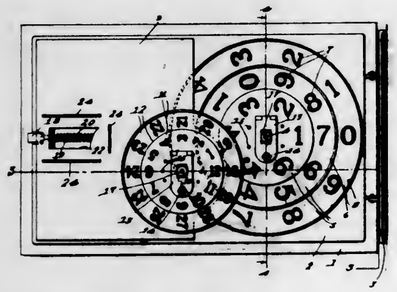
A device for removing buttons from shoes or fabrics, the same comprising a tubular cylindrical member having

one side cut away to form a semi-tubular projection, said projection being provided with an elongated longitudinally



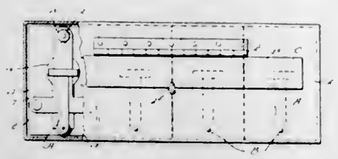
extending slot having an opening at one side, and a cutter blade at the opposite side of the slot.

1,380,227. INDICATOR. BARTON F. MCGLOTHLEN, San Bernardino, Calif. Filed Aug. 16, 1919. Serial No. 317,994. 2 Claims. (Cl. 40—70.)



2. In an indicator, a base, a cover, means to secure the cover in closed position, a threaded post on the base and within the cover, dials mounted to be turned about the base and having apertures off their common center and adapted to be placed in registration, a plate mounted on the post, a nut on the post and against said plate, and a plate hinged to the first-named plate and having an opening to receive said nut and also having a pin to enter the registered apertures in the dials.

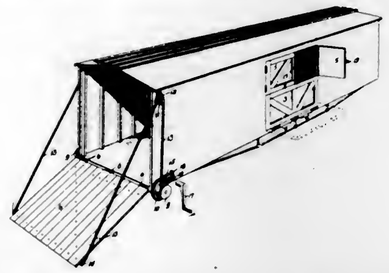
1,380,228. TESTING DEVICE FOR IGNITION SYSTEMS. HUGH F. MAGUIRE, New York, N. Y. Filed Dec. 16, 1919. Serial No. 345,290. 4 Claims. (Cl. 175—183.)



1. In a coil box, the combination of means carried thereby adapted to normally assume an inactive position and capable of engagement with the vibrator of the coil to render the same inactive, said means being arranged in a coil box to coincide with the position of the coil or coils contained therein, and in which the coil box is provided with a cover adapted to assume a normally closed position but capable of being opened to expose said means.

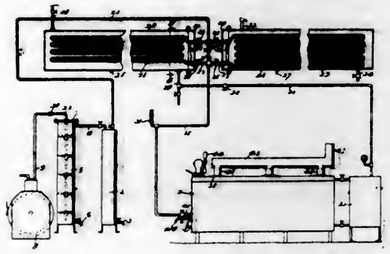
1,380,229. FREIGHT-CAR DOOR. LYNDON WHITE MANHEIM, Camden, S. C. Filed Aug. 24, 1920. Serial No. 405,596. 2 Claims. (Cl. 20—21.)

1. In a freight car, a door forming the end wall of the freight car and hinged at its lower edge to the floor of the car, a shaft mounted transversely of the car and below the same, winding drums on the ends of the shaft fixed to turn therewith, outwardly presented angle brackets affixed to opposite sides of the car adjacent the upper end of the door, laterally extending studs on the upper



end of the door, pulleys mounted in the angle brackets, flexible devices having their intermediate portions located over the pulleys and their ends operatively connected to the studs and the winding drums, and means for driving the shaft.

1,380,230. APPARATUS FOR THE TREATMENT OF MILK. JOHN M. MANLEY, Montgomery, Ala. Filed Apr. 24, 1920. Serial No. 376,223. 4 Claims. (Cl. 257—9.)



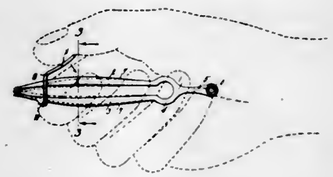
3. Apparatus for the purpose indicated comprising a compressed air supply means, a pair of jacketed coils for contact respectively with heating and cooling media, a pasteurizer, connections between the supply means and the coils and the coils and the pasteurizer, and means for selectively passing air through one or the other of the coils or the two coils in common to obtain a prescribed temperature of air.

1,380,231. FOUNTAIN-PEN. KEN MATSUMOTO and KISABURO TAKAGI, Tokyo, Japan. Filed July 7, 1920. Serial No. 394,468. 2 Claims. (Cl. 120—49.)



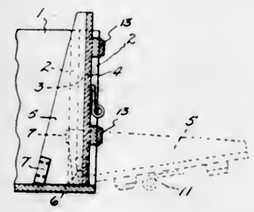
1. A fountain pen including a barrel provided at its open end with external screw threads, a pen holder in threaded engagement with the open end of said barrel, and provided with an internal thread, a cap provided near its closed end with internal screw threads designed to engage the external threads at the open end of the barrel, and a stem carried by the cap and provided at its free end with external threads designed to engage the internal threads of the pen holder for attaching and detaching said pen holder to and from the barrel, said cap being designed to close the open end of said barrel when the internal threads of the cap are in tight engagement with the external threads of the barrel, said cap being provided with a side opening through its wall to permit the barrel to be filled with ink after the stem has detached the pen-holder from the barrel.

1,380,232. TWEEZERS. ERNEST HENRY METCALF, Marlboro, N. H. Filed June 22, 1920. Serial No. 390,880. 5 Claims. (Cl. 294—35.)



1. A tweezer, comprising a pair of integral jaws spaced apart, one of said jaws having a shoulder thereon, and a lever having a slot therein receiving the pair of jaws and located back of and fulcruming against said shoulder.

1,380,233. SCOOP-BOARD FOR WAGON-BODIES. LEO H. MEYERPETER, St. Thomas, Mo. Filed June 5, 1920. Serial No. 386,697. 1 Claim. (Cl. 296—54.)



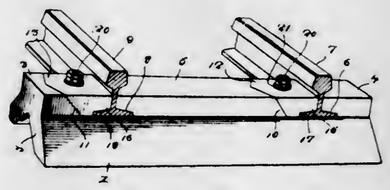
The combination with a wagon body open at its rear end and having at the inner sides of its side walls spaced upright strips, of a scoop-board movably arranged between the side walls of the body and having side walls and exterior projections on said side walls and disposed and movable in the spaces between the strips of the body and also having recesses in the outer sides of the side walls, wooden cleats fixed to the outer side of the scoop-board and arranged transversely thereof, metallic straps fixed to said cleats and having angularly disposed flared end arms adapted when the scoop-board is closed to assume positions at the outer sides of the rear end portions of the side walls of the body, outwardly directed arms at the inner ends of the side walls of the scoop-board and adapted to bring up against the inner edges of the innermost strips when the scoop-board is opened, and latch levers journaled in the scoop-board in a horizontal plane above said projections and having locking arms adapted to enter the spaces between the strips and the recesses in the scoop-board alternately and also having gravitational handle arms disposed and movable at the outer side of the scoop-board.

1,380,234. IRONING-BOARD. ABRAHAM MINTZ, New York, N. Y. Filed June 23, 1920. Serial No. 391,090. 1 Claim. (Cl. 68—10.)



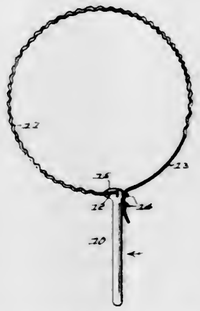
In a device of the character described, a base provided with a vertically-extending passage having a cut-out portion intermediate of its ends, an ironing board pivotally mounted on the base, a screw-threaded member carried by the ironing board and projecting through said vertical passage, a nut carried by the screw-threaded member and adapted to engage the base to secure the board against movement relative to the base, and a coil spring surrounding said screw-threaded member and interposed between the nut and a portion of the base.

1,380,235. TIE. JOHN C. MOELL, Wapakoneta, Ohio. Filed Jan. 11, 1921. Serial No. 436,452. 1 Claim. (Cl. 238—59.)



A rail tie comprising a body whose base is V-shaped in cross section and whose top is formed with upstanding ends and an upstanding block between the ends, and the lower wall between the upstanding portions providing rail seats, one of the said ends having its inner face notched to receive the base of one of the rails, the central block having one of its ends notched to receive the base of the second rail, the opposite face of the block having a V-shaped downwardly inclined groove, the inner face of the second end having a V-shaped downwardly inclined groove, wedge blocks each having one face provided with a V-shaped tongue complementary with the V-shaped grooves and designed to be received in the respective grooves, and to have their straight faces contacting with the rails, and removable means for securing said wedge blocks on the tie.

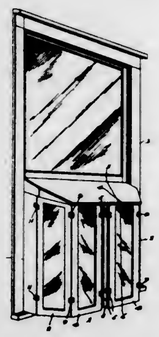
1,380,236. ADJUSTABLE JAR OR CAN OPENER. DENIS L. MURPHY, Hyannis, Mass. Filed Mar. 1, 1920. Serial No. 362,287. 1 Claim. (Cl. 81—3.1.)



A jar cap clamp having a lever or handle provided at its inner end with an enlarged rocker head for bearing

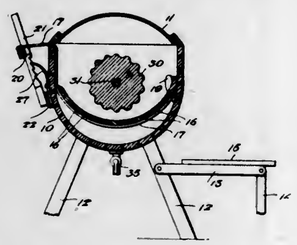
contact with the jar cap, a transversely corrugated spring band or ribbon secured at one end to the head and provided at the other end with a longitudinal series of openings, and a plurality of hooks carried by the lever or handle adjacent to the head for engagement with said openings to vary the diameter of the cap-engaging loop.

1,380,237. WINDOW ATTACHMENT. OSWALD J. NEFF, Easton, Pa. Filed June 11, 1920. Serial No. 388,269. 1 Claim. (Cl. 20—40.)



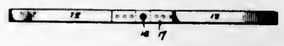
A collapsible and removable bay window attachment for window casings, comprising a plurality of hingedly connected transparent panels, a channeled mullion between the front panels to which the said front panels are hinged, the channel of the said mullion being designed to receive therein the edges of the outer panels when the latter are folded upon the front panels and the front panels are folded against the sides of the mullion, cleats on the inner face of the panels adjacent to the lower edges thereof, a bottom secured to the cleats, a top having depending spaced cleats receiving therebetween the upper edges of the panels, securing means for the top, and weather excluding strips at the confronting hinged ends of the panels.

1,380,238. WASHING-MACHINE. MARY J. NEWMAN, Fort Smith, Ark. Filed June 1, 1920. Serial No. 385,682. 1 Claim. (Cl. 68—23.)



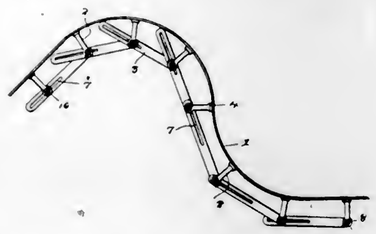
A washing machine comprising a receptacle, an agitating element rotatably mounted within the receptacle, means for operating said element, a flexible bottom arranged beneath said element and having one end pivotally mounted upon the receptacle, the opposite end of said bottom being free, flexible elements secured to the free end of the bottom and passed over the upper edge of the receptacle, a vertically disposed lever pivoted upon the outside of the receptacle, a cross arm carried by the lever and connected with the terminals of the flexible elements, arms depending from the lever and hingedly connected with the receptacle at their lower ends, said arms and lever being movable as a unit to adjust the bottom with respect to the agitating element, said lever having teeth, and a resilien element carried by the receptacle and coöperating with said teeth to hold the bottom in an adjusted position.

1,380,239. AUTOMOBILE-BUMPER. RICHARD T. NEWTON, New York, N. Y. Filed Jan. 22, 1917. Serial No. 143,815. 36 Claims. (Cl. 293—55.)



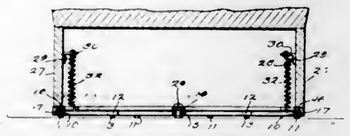
9. An automobile bumper comprising an impact member of spring strap material, having supporting arms extending on a curve from the ends of the impact member to the chassis, and a reinforcing spring arch lying between the impact member and the chassis and serving to support the mid-area of the impact member, the attaching ends of said impact member and supporting arch lying substantially parallel to each other, and to the opposite chassis side bars, together with means common to the attaching ends for opposite sides of the bumper for securing the same respectively to the opposite chassis side bars.

1,380,240. TEMPLET. GERSHOM JNO. NIES, Beaumont, Tex. Filed June 8, 1920. Serial No. 387,446. 2 Claims. (Cl. 33—177.)



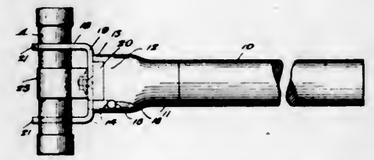
1. A device of the class described comprising a flexible base strip, standards carried thereby and spaced apart, links, each pivotally connected with one standard and having a slotted connection with the adjacent standard and means for clamping the slotted ends of the links to the standards.

1,380,241. ROCKING-CHAIR. JOHN A. OLSON, Paterson, N. J., assignor to Auto Safety Device Company, Union, N. J., a Corporation of New Jersey. Filed Oct. 28, 1919. Serial No. 334,064. Renewed Nov. 3, 1920. Serial No. 421,597. 1 Claim. (Cl. 155—71.)



A revolving rocking chair comprising a lower annular plate, a plurality of integral arms secured to said plate, extending radially inwardly therefrom, joined at the center of the plate and provided at said center with an opening, an upper annular plate right angular in cross section, one leg of the angle being horizontal and adapted to contact the upper face of the lower annular plate, the other leg of the angle being vertical and adapted to contact the outer face of the lower annular plate, a plurality of integral arms connected with said upper plate, extending radially inwardly therefrom, joined at the center of the plate and provided at such center with an opening, means extending through said openings for rotatably connecting said plates, a rocking chair having its rockers in engagement with the upper surface of the upper plate and adapted to rock thereon, pairs of springs secured to substantially diametrical portions of the upper plate and connecting said plate with said chair, and a plurality of braces extending from the center of the radially disposed arms connected to the upper plate and secured to said upper plate at points between and spaced from the outer ends of one of the upper radial arms and the portions of the upper plate to which the said pairs of springs are secured.

1,380,242. FUSE-HOLDER. PAUL R. OLIVER, Akron, Ohio. Filed Apr. 5, 1920. Serial No. 371,539. 5 Claims. (Cl. 81—1.)



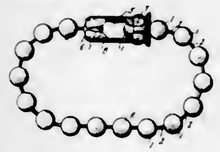
1. A device of the character described comprising a handle, a head carried thereby and including spaced ears provided with openings extending to one edge, said opening being arranged reversely, and a clip rotatably mounted upon the head between said ears.

1,380,243. COMBINATION PLUMB-LEVEL. JAMES H. OSBORN, Mount Vernon, Ill. Filed Jan. 23, 1920. Serial No. 353,424. 4 Claims. (Cl. 33—216.)



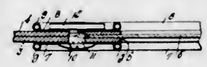
1. A device of the class described comprising a casing having an elongated slot therein, a plumb carrying instrument pivoted to said casing so as to be received in said slot, said instrument comprising a pair of parallel spaced apart arms, a bracket situated upon the top of one of said arms, a plumb line attached to said bracket, a bob attached to said plumb line, a pair of spaced apart parallel plates extending between said arms and provided with registering slots adapted to receive said plumb line.

1,380,244. KEY-RING CHAIN. CHARLES H. OTIS, Orange, Conn. Filed July 22, 1920. Serial No. 398,104. 4 Claims. (Cl. 24—116.)



4. A key ring chain, comprising a series of spherical balls or beads, links of relatively small diameter connecting the balls or beads, a coupling sleeve having an opening or entrance intermediate its ends and adapted to permanently hold the end ball in one end of the sleeve, said sleeve at its other end having a longitudinal slot of a width sufficient to accommodate a link, a thimble mounted in the slotted end of the sleeve and having a slot therein adapted to register with the first-mentioned slot, and an enlargement on the outer end of the thimble.

1,380,245. CURTAIN-WINDOW. CHARLES B. PECK, Batavia, N. Y. Filed July 2, 1920. Serial No. 393,592. 1 Claim. (Cl. 296—145.)



The combination with a flexible support having an opening therein and a sheet of glass in the opening, of a frame located on each side of the sheet, means connecting the frames to clamp the glass and the support between them, each frame comprising a plurality of independent flat straight strips of light thin metal removably joined together to form a rigid frame, each strip being provided with outwardly presented beaded edges, said connecting means comprise bolts and nuts, and said beaded edges preventing accidental turning of the nuts.

1,380,246. TOOTHBRUSH-CONTAINER. EDWARD M. PETERS, Medford, and PAUL VILARDO, Somerville, Mass. Filed July 2, 1920. Serial No. 393,501. 8 Claims. (Cl. 132—84.)



8. A device of the character described comprising a tubular holder, a slide within the holder, claws carried by the slide for receiving the handle of a tooth brush, means coöperating with one claw for holding the tooth brush handle therein and also adapted to cause movement of the slide, resilient means associated with the other claw for holding the handle therein, removable caps for the ends of the tube, a receptacle for tooth paste and the like carried within one cap, and means to expel the contents of the receptacle also carried by said cap.

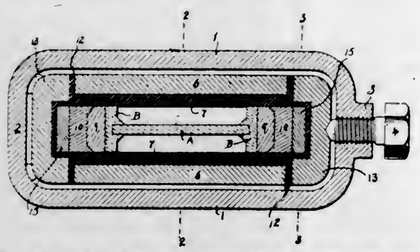
1,380,247. SHELL-FISH SCRAPER. CHARLES S. PRICE, Denver, Colo. Filed June 2, 1920. Serial No. 386,021. 2 Claims. (Cl. 30—22.)



1. In a device of the character stated, a handle, a body portion of compound curvature longitudinally, and of substantially the same width throughout, the free end of said

body portion located transversely to the plane of the handle and terminating in a sharp scraping edge located transversely of the longitudinal axis of the handle.

1,380,248. ELECTRIC FURNACE. CHARLES H. PRIESTLEY, Elizabeth, N. J. Filed Apr. 24, 1919. Serial No. 292,329. 3 Claims. (Cl. 204—64.)



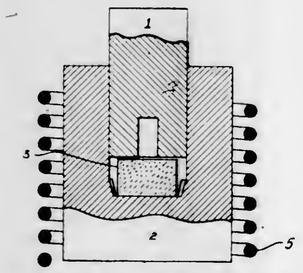
1. An electric furnace, comprising in combination; a retaining frame, a clamping cap screw screw-threaded within the retaining frame, a furnace cylinder, an insulating tube inserted within the furnace cylinder to line said cylinder, a grooved closure head, insulator caps placed upon each end of the furnace cylinder and against the insulator cap with the cap confined within the groove of the closure head, and circuit electrodes inserted within the groove of the insulator cap and passed across the bore of the furnace cylinder.

1,380,249. SHEARING-MACHINE. MARTIN O. REHFUSS, Philadelphia, Pa., assignor to John Wanamaker, Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1917. Serial No. 205,517. 13 Claims. (Cl. 164—42.)



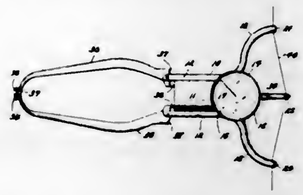
1. The combination in a shearing machine of means for supporting a body of sheet material in a plane; a guide; a pair of scissors bodily movable on said guide and including a fixed blade operative immediately adjacent the plane in which the material is supported; and means for continuously oscillating the second blade of said scissors while the latter is moving in one direction on the guide, consisting of a rotary shaft, and mechanism operatively connecting said shaft with the second scissors blade.

1,380,250. PROCESS OF MOLDING OR SHAPING PARTS IN MOLDS OR DIES. MARTIN H. REYMOND, Anderson, Ind. Filed Oct. 22, 1919. Serial No. 332,498. 3 Claims. (Cl. 219—13.)



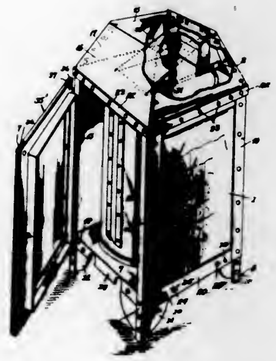
1. The process of molding material in a closed die, consisting of electrically heating the material in a coreless high frequency primary transformer by the transformer reaction between said high frequency primary and the material to be molded, and the shaping of said heated material in a closed die under pressure.

1,380,251. TENSIOMETER. PAUL RIBA, Philadelphia, Pa. Filed May 7, 1920. Serial No. 379,602. 2 Claims. (Cl. 265—1.)



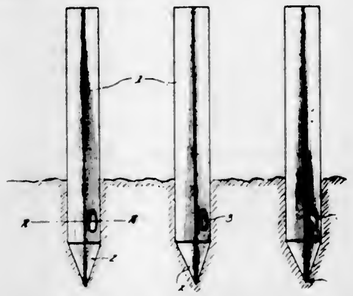
1. A tensiometer comprising a frame including wire engaging arms and a casing carried thereby, an indicating dial on the casing, a centrally disposed wire engaging plunger passing through the casing, a seat carried by the plunger, a spring disposed in the casing and bearing against the seat, a sliding block in the casing and engaged by the spring, handles mounted to swing on the frame, off-set projections on the handles for engagement with the block to advance the same in the casing when the handles are actuated and means for locking said handles against relative movement.

1,380,252. COMBINED TRASH-RECEPTACLE AND ADVERTISING MEDIUM. GEORGE J. RICHARDSON, New York, N. Y., assignor to National Sanitary Street System, Incorporated, a Corporation of Delaware. Filed Nov. 26, 1919. Serial No. 340,730. 4 Claims. (Cl. 220—83.)



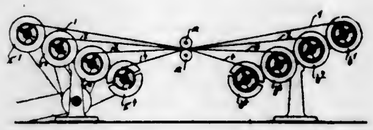
1. A combined trash receptacle and advertising carrier, comprising a receptacle having metallic walls, connecting strips secured thereto on the outer sides of such walls to connect the walls in receptacle forming relation, and brace strips overlying the connecting strips and secured to the latter and to the walls, said brace strips extending inwardly of the edges of the connecting strips to provide with the underlying wall opposing guideways for the reception of advertising panels, each wall of the receptacle having an upper end brace strip to limit movement of the panel, and the panels having a lower end brace strip, the end brace strips of the receptacle wall and panel providing cross continuations of the guideway forming brace strips to complete the panel effect when the advertising panel is in place, and means for securing the panel to the receptacle wall.

1,380,253. GERMINATOR. JAMES G. RODGER, Camden, N. J. Filed Feb. 28, 1921. Serial No. 448,321. 2 Claims. (Cl. 47—36.)



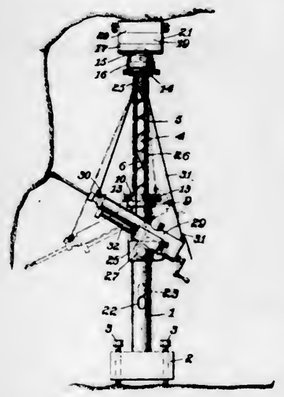
2. A germinator for use as an educational appliance, comprising a rod-like member having a pointed end and formed with a bowl-like recess near the pointed end, the length of the rod above the recess serving as a handle to permit the introduction of the germinator into and its withdrawal from the ground.

1,380,254. METHOD OF ROLLING IRON. CHRISTIAN RÖTZEL, Dusseldorf, Germany. Filed June 6, 1919. Serial No. 302,363. 1 Claim. (Cl. 29—18.)



An improved method of rolling hoop or ribbon iron, which consists in passing a plurality of separated blooms or bars in a cold state, laid one over another, at one time through a pair of rollers and repeating said passage in a cold state as often as required to bring the upper and lower surface of each hoop at least once into immediate contact with one of the rollers of the pair, and changing the surfaces at each passage.

4,380,255. DRILL-COLUMN. RAY P. SAFFOLD, Warren, Ariz. Filed Mar. 29, 1919. Serial No. 286,075. 12 Claims. (Cl. 255—52.)

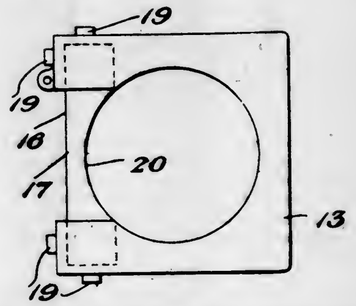


1. A drill column comprising two telescoping members, one of said members having a threaded connection with the other, the externally threaded member having a second reverse thread; and a stop collar having a spline adapted to enter said reversely formed thread and to bear against the adjacent end of the other member.

6. In a drill column, the combination of a base, an extension member carried thereby; a ball rotatably mounted on the upper end of said member; and a separate bearing block having a socket in which the ball seats.

10. In combination with a drill column; a drilling machine; a supporting bar for said machine, said bar being slidably supported upon the column; a pulley block attached to the upper portion of the column; and a rope or cable having its ends secured to the opposite ends of the drilling machine, said rope passing through the block and having a bight or loop passing downwardly and embracing the supporting bar.

1,380,256. JOURNAL-BOX. HENRY C. SALTIEL, Rawlins, Wyo. Filed Mar. 1, 1920. Serial No. 362,341. 1 Claim. (Cl. 64—24.)



In combination, an oil box having one side formed with an opening, means for closing the opening, a stub axle extending from the wheel and disposed within said box, the opening in said box being of a size to permit passage of said stub axle, a journal bearing surrounding said stub axle, a wedge member disposed at the top of the box and engaging the top of said journal, and means for retaining the stub and journal within the box comprising an insert located within the open end of the box and having one face concaved for conforming engagement with the journal, said insert having right angularly extending ends bearing against the underside of the top and the top side of the bottom of the box and being bolted to the latter.

1,380,257. COAT-COLLAR FASTENER. GUIDO F. SCHLOTE, Afton, Wyo. Filed Dec. 7, 1918. Serial No. 265,730. 1 Claim. (Cl. 24—73.)

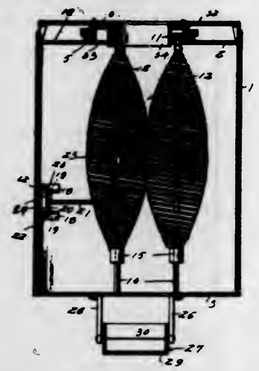


A device for the purpose indicated embodying an elastic strip, a head member carried by the strip adjacent one end, a socket member carried by the strip adjacent the other end, and attaching hooks having their shanks formed in rings embracing respectively the head and socket members on the peripheries of the latter, the hook portions lying in planes at right angles to the plane of the strip, the head member and socket member being engageable, whereby the hooks become oppositely disposed, so that if separately engaged with a garment or piece of goods they will become locked in such engagement upon the connection of the head and socket members.

1,380,258. CELLULOSE-NITRATE COMPOSITION AND SHEET. PAUL C. SEEL, HENRY COMBS, and RICHARD KEMP, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 10, 1920. Serial No. 380,411. 5 Claims. (Cl. 106—37.)

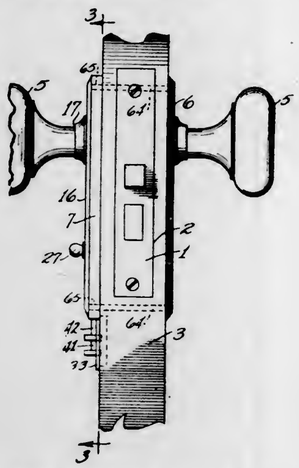
1. A composition consisting only of nitrocellulose, aliphatic alcohols containing from 4 to 5 carbon atoms, and a volatile common solvent, the boiling point of which is substantially below 100° C.

1,380,259. POTATO-PEELING MACHINE. BARNEY A. SHARP, Los Angeles, Calif. Filed July 23, 1920. Serial No. 398,369. 13 Claims. (Cl. 146—14.)



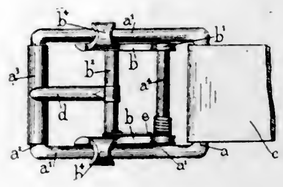
1. A potato peeling machine comprising a casing having inlet and outlet ports, potato feeding elements journaled in said casing between the ports and adapted to impart rotation to a potato during its passage from one port to the other, and a knife for removing the peelings from the potatoes as they are fed in the direction of the outlet port.

1,380,260. COMBINATION KEYHOLE-GUARD. JOSEPH SOMORA, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 431,982. 3 Claims. (Cl. 70—66.)



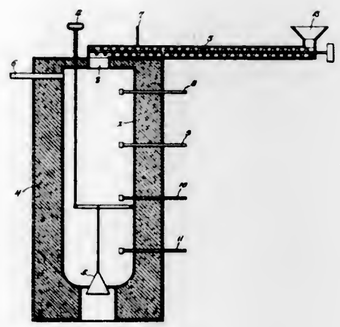
1. In a device of the class described, the combination of a door lock, a casing secured to said door lock, said casing being formed with a key-hole registering with the keyhole of said lock, transverse guide members secured to the inner side of said casing at opposite sides of said key-hole to provide a guide-way, a shutter slidable in said guide-way and being formed with a key-hole positioned to register with the key-hole in said casing when said shutter is in an adjusted position relative the casing, a plurality of spaced apart alined detents carried by said shutter and extending laterally thereof, a carrying plate secured in adjusted position between said casing and said lock, said carrying plate being provided with a pair of spaced apart parallel ways in its surface contiguous said shutter and with another way extending at right angles to said first named ways and being positioned to receive said detents, and a pair of locking bolts each having a series of characters marked thereon, said locking bolts being slidably disposed in said first named ways, each bolt being formed with a transverse slot in the surface thereof contiguous the shutter in position to register with said last named way when said locking belts are in adjusted positions, whereby said detents are moved along said last named way when said shutter is moved to bring the key-hole through the shutter into or out of registration with said first named key-hole.

1,380,261. BUCKLE FOR STRAPS, BELTS, AND THE LIKE. GABRIEL ALBERT VALENTIN SOULACROIX, Paris, France. Filed Aug. 7, 1918. Serial No. 248,783. 1 Claim. (Cl. 24—179.)



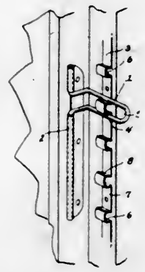
A buckle comprising a frame having longitudinally spaced cross bars, to one of which a strap end is adapted to be permanently secured, and beneath the other of which the free end of the strap is adapted to be passed up between the sides of the frame, a chassis pivoted to said frame at a point located between said cross bars, a tongue on said chassis adapted to pass through said free end of the strap and to overlie the cross bar beneath which the free end of the strap is passed, in combination with spring means engaging said chassis and tending to maintain the tongue in position to overlie said cross bar in strap-engaging position, substantially as described.

1,380,262. DESTRUCTIVE-DISTILLATION PROCESS. ORIN F. STAFFORD, Eugene, Oreg. Filed Aug. 29, 1919. Serial No. 321,298. 19 Claims. (Cl. 203—6.)



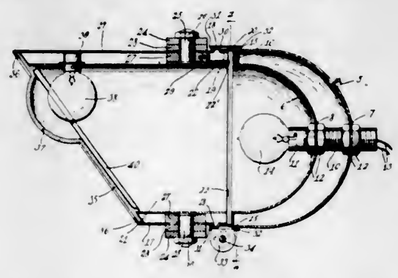
2. In the destructive distillation of wood, the step of heating the wood under treatment while out of contact with substantial amounts of air, said heating operation being effected, after the commencement of the operation, substantially by the heat produced in the exothermic wood carbonizing reaction, while continuously supplying wood to be treated.

1,380,263. WINDOW-LOCK. GEORGE W. STEIN, Chicago, Ill. Filed Nov. 15, 1919. Serial No. 338,242. 2 Claims. (Cl. 292—194.)



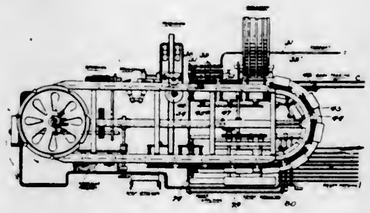
1. A window locking device comprising a locking member secured to the window sash and movable with relation to the surfaces of the window frame, and a keeper in the form of a strip of metal having spaced portions formed into projections for engagement with the member.

1,380,264. HEADLIGHT FOR AUTOMOBILES. OTTO A. STEUTERMANN, Reading Mass. Filed June 7, 1920. Serial No. 387,132. 2 Claims. (Cl. 240—41.)



1. A lamp including a forward section and a rear section, the rear section including a curved rear wall and a reflecting wall, said walls being disposed in spaced relation with each other, a bulb carried by each section, a lens carried by the forward section and disposed at an angle to the perpendicular, the bulb in the forward section being supported in a position to direct its light rays downwardly, a bracket member having connection with the forward section, and means for removably securing the sections together.

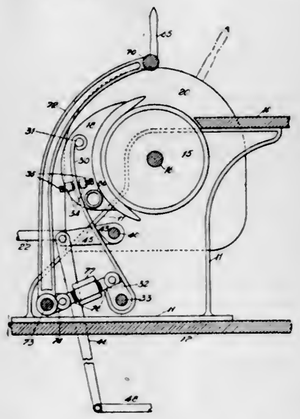
1,380,265. BOOKBINDING-MACHINE. WARD B. STORY, Brooklyn, N. Y., assignor to T. W. & C. B. Sheridan Company, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1919. Serial No. 272,122. 21 Claims. (Cl. 11—1.)



1. In combination, an endless series of book-conveying clamps, binding instrumentalities arranged in association therewith and adapted to operate on the groups of signatures in said clamps, means for assembling signatures into groups and introducing them into said clamps, means for detecting the presence of an imperfect signature as the groups are being assembled, and mechanism controlled by said means and operating on the group into which an imperfect signature enters to displace the same in its clamp and thus prevent the operation of the binding instrumentalities on said group.

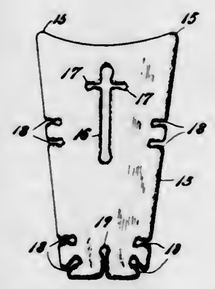
13. In combination, an endless series of book-conveying clamps, means for assembling signatures into groups from a plurality of sources of sheet or signature supply and introducing said groups into said clamps, detecting means associated with each signature source and operating to detect imperfect signatures or the absence of a signature, and mechanism controlled by said detecting means and operating on a defective group to elevate the same just before its clamp closes.

1,380,266. MANGLE. WILLIAM H. S. STRONG, Sandusky, Ohio. Filed Nov. 19, 1919. Serial No. 339,055. 17 Claims. (Cl. 68—9.)



3. In a mangle, the combination with a driven roll, and an iron connecting means between said roll and the driving gear, foot controlled means for interrupting the drive to said roll, and hand controlled means acting on said connecting means for rendering said foot controlled means operative or inoperative.

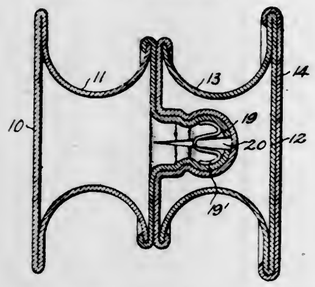
1,380,267. NECKTIE-FORM. FREDRIK STUART, Philadelphia, Pa. Filed July 9, 1920. Serial No. 395,041. 1 Claim. (Cl. 2—84.)



A necktie comprising a stiff form having an opening in its vertical central portion and also having slits reach-

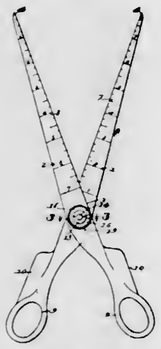
ing inwardly from its side edges, at intermediate points in the length thereof, and other slits reaching upwardly from its lower end, and a fabric member lapped over the upper end of the form and secured in the vertical central opening thereof and having folds disposed and held in the slits of the form.

1,380,268. CUFF-BUTTON. MICHAEL JOHN SULLIVAN, Holyoke, Mass. Filed Sept. 30, 1920. Serial No. 413,731. 1 Claim. (Cl. 24—102.)



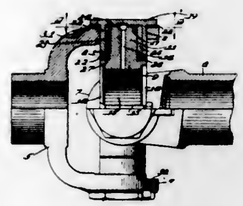
A cuff button, including a pair of sections each comprising a base, a barrel secured to said base, a contact plate secured to the free edges of said barrel, one of said contact plates being formed with a rearwardly extending wall presenting a socket, said socket being formed substantially intermediate its depth with an inwardly extending flange, the second of said contact plates being formed with a stud terminating in a head, said stud being split throughout its entire length, and being formed with a groove substantially intermediate its extremities, the said flange being adapted to co-act with said groove, and an M-shaped spring arranged within the head of said stud for expanding the split portion of the same.

1,380,269. DIVIDERS. ALANO E. SUMERSILLE, San Juan, Porto Rico. Filed Oct. 22, 1918. Serial No. 259,198. 1 Claim. (Cl. 33—148.)



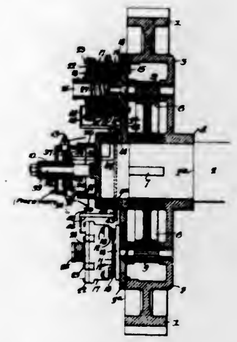
An implement comprising complemental sections or legs pivoted together at one end, a bolt passing through and securely fixed in one section and engaging the other section, an eyelet disposed in the latter section, the said bolt passing through the eyelet and being formed with a squared portion adjacent the outer face of the eyeleted section, a disk formed with a hole corresponding to the squared portion of the bolt and surrounding said squared portion and lying against the outer face of the section containing the eyelet, said disk having graduations and the eyeleted section having a mark to register with such graduations, a nut threadingly engaged with the bolt and bearing against the disk, and a set-screw threaded through the disk and adjustable to be engaged with the adjacent section whereby the two sections may be locked in angular relation to each other and as indicated by the movement of the mark beside the graduations.

1,380,270. UNIVERSAL JOINT. CARL E. SWENSON, Rockford, Ill., assignor of one-fourth to Levin Faust, one-fourth to Eric S. Ekstrom, and one-fourth to Carl L. Anderson, Rockford, Ill. Filed June 7, 1920. Serial No. 387,024. 3 Claims. (Cl. 64—102.)



1. In a universal joint, a trunnion connector comprising an externally threaded socket member having a threaded connection with one of the members of the joint, a hardened bearing bushing ground on its inner and outer peripheries and having a press-fit in the socket of said threaded part, the trunnion having a radial bearing in said bushing and a thrust bearing at its outer end against said socket member, and means for lubricating the radial and thrust bearings.

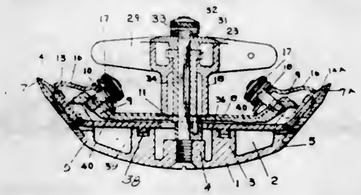
1,380,271. CLUTCH. JOSEPH W. THROPP, Trenton, N. J. Filed Aug. 7, 1919. Serial No. 315,873. 8 Claims. (Cl. 192—84.)



2. In a clutch, the combination of a movable member, a gear wheel carried thereby, a power transmitting member, a plurality of shafts journaled in the power transmitting member, pinions on said shafts in operative engagement with said gear wheel, means for locking each pinion to the power transmitting member whereby movement of the latter will be transmitted to the movable member, said means comprising a disk adjacent each pinion, a magnet adjacent said disk adapted when energized to attract the disk, and a spring bearing against the disk adapted to oppose the said attraction.

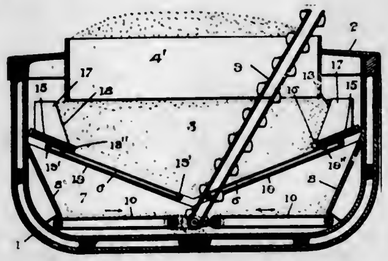
1,380,272. AUTOMATIC HAIR-CUTTING MACHINE. EPIFANIO V. N. TOMASULO, Cincinnati, Ohio. Filed Dec. 17, 1920. Serial No. 431,440. 43 Claims. (Cl. 30—1.)

1. In a power barber's clipper, a cutter element and a casing, said casing having a curved base adjacent the cutter element, and said cutter element being mounted on the casing and having a fixed member extending tangentially



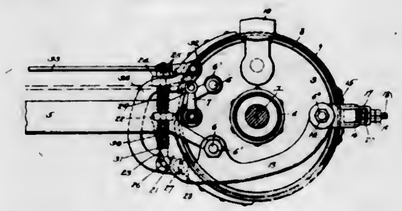
from the upper end of the curve of the base and a handle mounted on and above the casing adjacent the cutter element.

1,380,273. BUNKERING-BARGE. STARR TRUSCOTT, Birmingham, Ohio. Filed May 8, 1919. Serial No. 295,738. 8 Claims. (Cl. 214—15.)



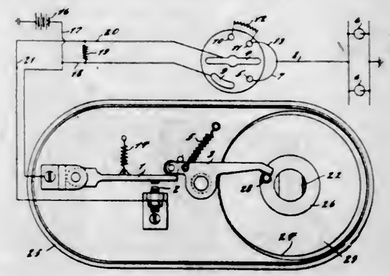
1. A barge having a hold, a conveyer frame mounted to move over the bottom of the hold transaversely of said frame, an endless conveyer chain carried by said frame, means beyond one end of said frame for receiving the material conveyed by said chain, and a shield mounted on said frame and extending upwardly from one run of said chain.

1,380,274. OUTSIDE BRAKE. CLIFTON VAN COTT, Cold Spring Harbor, N. Y. Filed Aug. 9, 1919. Serial No. 316,325. 1 Claim. (Cl. 188—77.)



The combination with a stationary disk, a rotary drum and a brake band around the drum, of a bracket arm fixed to the disk, an extension on the rear end of the bracket arm, a laterally projecting block on the extension integral with said bracket arm, a socket frame on the intermediate portion of the brake band, into which the said block projects, a bolt on the block extending through the outer end of the socket frame, a nut on the outer end of the bolt, a coiled spring around the bolt, between the block and the outer end of the frame tending to move the intermediate portion of the brake band away from the drum, an operating lever pivotally connected to one end of the brake band, a rod pivotally connected to the lever, a perforated lug on the other end of the brake band receiving the rod, a perforated lug on the bracket arm through which the rod projects, coiled springs around the rod above and below said last mentioned lug, holding the rod in place, one of said springs exerting pressure on one end of the brake band and the other of said springs exerting pressure on the rod.

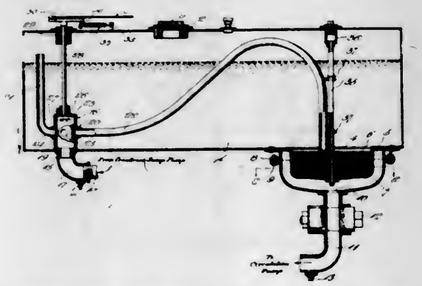
1,380,275. LIGHTING SYSTEM FOR AUTOMOBILES. RICHARD VARLEY, Englewood, N. J., assignor to Varley Duplex Magnet Company, a Corporation of New Jersey. Original application No. 324,450, filed Sept. 18, 1919. Divided and this application filed Dec. 26, 1919. Serial No. 347,412. 5 Claims. (Cl. 171—97.)



3. A lighting system for motor driven vehicles comprising a lamp and a circuit therefor including a source of electric current, a resistance in the circuit, a shunt around the resistance including a movable cnotact having a bias to open position, an operating member for the movable contact operative to close the contact and having a bias to non-operative position, a motor driven element, and means actuated by the motor driven element for moving the operating member to operative position.

4. A lighting system for motor driven vehicles comprising a lamp and a circuit therefor including a source of electric current, a resistance in the circuit, a shunt around the resistance including a movable contact having a bias to open position, a pivoted lever adapted to engage the movable contact with one end and move it to closed position, a retractile spring operative to normally retract the lever, and a motor-operated device for actuating the lever including a rotative primary member connected to be driven by the motor and a rotative secondary member arranged to have a drag imparted to it by the primary member and operatively connected to the lever.

1,380,276. LUBRICATING SYSTEM. ALFRED WARD, St. Albans, N. Y. Filed July 13, 1920. Serial No. 395,854. 7 Claims. (Cl. 184—6.)

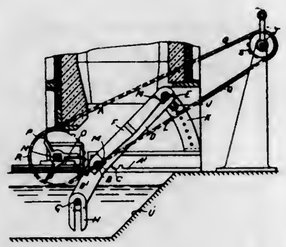


4. A lubricating system oil reservoir having an inlet and an outlet, a screen at the outlet, a valve controlled conduit for selectively returning oil from a circulating system to the reservoir and for conducting the oil through the reservoir from the inlet to the outlet, and a conduit for conducting a priming charge of oil through the reservoir and through the outlet thereof and through the screen.

1,380,277. CATALYTIC OXIDATION OF ORTHO-CRESOL. JOHN M. WEISS, New York, N. Y., and CHARLES R. DOWNS, Cliffside, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed Dec. 12, 1919. Serial No. 344,370. 8 Claims. (Cl. 23—24.)

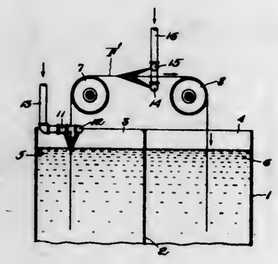
1. The method of producing salicylaldehyde and salicylic acid which comprises oxidizing ortho-crosol in the vapor phase with an oxygen containing gas in the presence of a metallic oxid as a catalyst.

1,380,278. GRATE FOR GAS-PRODUCERS AND CARBONIZING PLANTS. JOHN WELLS, Cairo, Egypt. Filed Nov. 1, 1919. Serial No. 335,080. 1 Claim. (Cl. 126—153.)



In a gas producer, a furnace body, an inclined grate arranged within the furnace body and pivotally supported therein at its rear end, means for adjustably holding said rear end of the grate in different horizontal positions for spacing the grate from the rear wall of the furnace body, means for adjustably supporting the forward upper end of the grate whereby siad grate may be supported at different angles in the lower portion of said furnace body, and a paddle wheel rotatably mounted in the rear portion of said furnace body above the lower end of said grate for supporting a body of fuel thereon and adapted to be operated for facilitating the discharge of ashes therefrom, substantially as described.

1,380,279. TREATMENT OF CINEMATOGRAPHIC FILMS. WILLIAM BURTON WESCOTT, Wellesley, Mass., assignors to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 28, 1918. Serial No. 214,086. 4 Claims. (Cl. 95—89.)



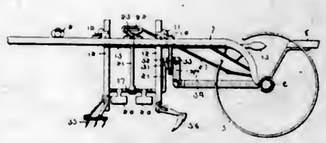
1. The method of treating a cinematographic film as it emerges from a body of liquid comprising directing a fluid stream downwardly along the film immediately above the body of liquid so that the stream will spread outwardly at the surface of the liquid and carry any substances floating on the surface of the liquid away from the place where the film emerges.

1,380,280. APPARATUS FOR STORING AND HANDLING LOGS. WILLIAM A. WHITCOMB, Millinocket, Me. Filed Oct. 24, 1919. Serial No. 332,898. 9 Claims. (Cl. 214—6.)



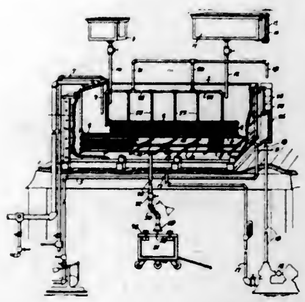
1. In an apparatus of the character specified, the combination of a pair of spaced towers; an inclined runway extending upwardly toward the upper portion of one of said towers; a tunnel extending from one of said towers to the other; and conveyer means extending through the tunnel, up the runway, across from one tower to the other, and back to the tunnel.

1,380,281. COTTON-CHOPPER. CHARLES W. WHITE, Chamblee, Ga. Filed Sept. 3, 1919. Serial No. 321,398. 5 Claims. (Cl. 97—45.)



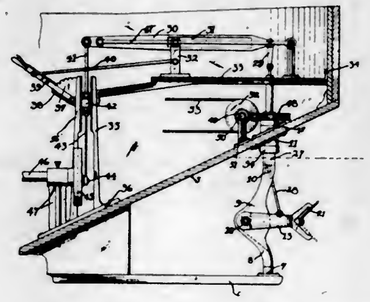
2. In a cotton chopper, a wheel mounted frame structure, standards suspended therefrom, cotton chopping means supported in the standards, an adjusting rod connected with the chopping means, an adjusting crank pivotally supported upon the frame structure and connected with the terminal of said rod, and manually operable means for adjusting the crank.

1,380,282. APPARATUS FOR PREPARING TEXTILE-TREATING BATHS. THEODORE WICKERSHAM, Philadelphia, Pa. Filed Nov. 24, 1919. Serial No. 340,432. 2 Claims. (Cl. 259—19.)



1. In apparatus for preparing a treating bath, the combination of a tank, means for heating the same, liquid containers mounted above the tank and having discharge pipes leading to the tank, a perforated pipe in the bottom of the tank for collection of the material contained therein, a perforated pipe in the top of the tank for the inlet of such material, a pump connected to said pipes for drawing the material from the bottom of the tank and discharging it into the top of the same to insure proper circulation and emulsification thereof, and means for discharging the material from the tank.

1,380,283. PROPELLING MECHANISM FOR VESSELS. JAMES WORCESTER, Waltham, Mass. Filed Oct. 11, 1920. Serial No. 416,240. 15 Claims. (Cl. 115—29.)



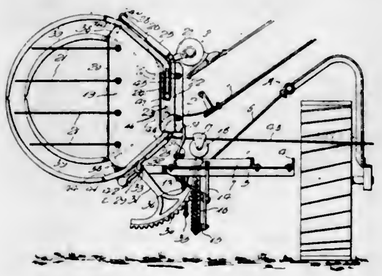
1. A propelling mechanism comprising a horizontally pivoted propeller frame, a propeller blade pivoted thereto, a rotary support to which said frame is pivoted, means for oscillating said frame, and means for rotating said support to swing the frame horizontally in the arc of a circle for steering and reversing purposes.

1,380,284. ANTICREEPING RAIL-CHAIR. STANISLAW WAUBEL, Genoa, Nebr. Filed June 1, 1920. Serial No. 385,744. 1 Claim. (Cl. 238—288.)



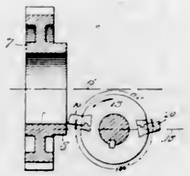
A rail chair comprising a plate having a flat bottom portion forming a rail base seat, an integral inwardly directed rail engaging flange formed adjacent the outer end of said plate and overlying the bottom portion, said plate also provided with spike receiving openings intersecting said flange, the other end of said plate being of increased cross sectional area to form an intermediate shoulder to cooperate with said plate flange to hold a rail seated therebetween against movement, the terminal of said enlarged end extending upwardly at right angles to the bottom plate to form a vertical anchoring extension and a connecting rod fastened to the extensions of adjacent chairs.

1,380,285. AUTOMATIC GRAIN-SHOCKER. CARL S. AGRE, Volga, S. D. Filed May 24, 1920. Serial No. 383,826. 22 Claims. (Cl. 56—423.)



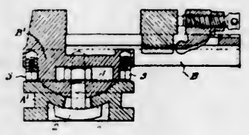
1. A shock forming attachment for a harvester comprising a support, a cradle, means connecting the cradle with the support for swinging movement from a filling position to a dumping position, and compressing jaws, one jaw being connected with the cradle mounting means and moving toward the second jaw to gradually compress a shock during the entire movement of the cradle to a dumping position.

1,380,286. METHOD OF AND APPARATUS FOR HOBBING TEETH ON REVOLVING BLANKS. CARL L. ANDERSON and CARL E. SWENSON, Rockford, Ill. Filed Nov. 11, 1918. Serial No. 261,947. 12 Claims. (Cl. 90—3.)



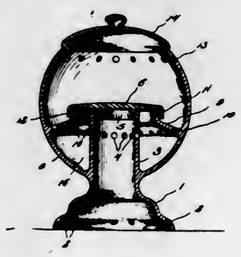
1. The method of hobbing radial face teeth on a revolving blank which consists in setting the hobbing blades so that their edges designed to cut radial faces on the blank will revolve in a plane of rotation which is parallel to a radial plane of the blank and spaced a predetermined distance from said radial plane.

1,380,287. ADJUSTABLE WORK-HOLDER FOR MACHINE-TOOLS AND THE LIKE. FRANÇOIS-LOUIS BRODU, Nantes, France. Filed Dec. 9, 1919. Serial No. 343,682. 2 Claims. (Cl. 90—60.)



1. An adjustable work holder for machine tools comprising a base adapted to be secured to a machine tool and having a spherical concave surface, a platform adapted to receive the work to be operated upon and having a spherical convex surface, a bolt holding the base and the platform together with their spherical faces in contact, and a plurality of adjusting screws for the purpose of supporting the platform in any adjusted position.

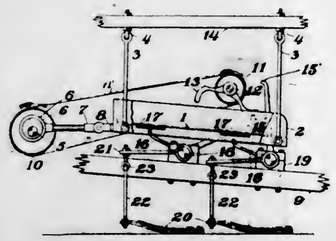
1,380,288. SOAP-DISH. AMY LEATHERS CHEAK, Waddy, Ky. Filed Feb. 15, 1921. Serial No. 445,203. 2 Claims. (Cl. 45—28.)



1. In a soap holder, an apertured base having a tubular extension, a globular body integrally formed on and sur-

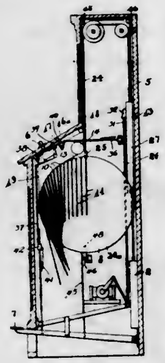
rounding the extension, said body having a partition directed upwardly and toward but spaced from the upper end of the tubular member, a soap holder removably connected to the end of the tubular member and resting on the partition, and said body partition, tubular member and base having air inlet apertures.

1,380,289. SCREENING DEVICE. HENRY H. CHILDERS, Louisville, Ky. Filed Mar. 5, 1920. Serial No. 363,381. 6 Claims. (Cl. 83—56.)



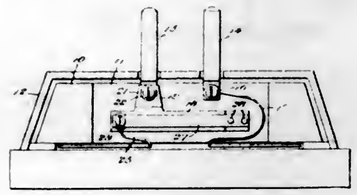
1. In a device of the character described, a longitudinally vibrating member embodying a screen, means to vibrate the member longitudinally, hammer rock shafts arrranged beneath and extending transversely of the longitudinally vibrating member and projecting outwardly beyond the sides of the same, a transverse cam shaft arranged above the longitudinally vibrating member and extending outwardly beyond one side thereof, cams disposed upon one side of the vibrating member and carried by the cam shaft, cam rockers disposed upon the same side of the vibrating member and secured to the hammer rock shafts and arranged to be engaged by said cams, yielding means arranged upon the opposite side of the vibrating member and connected with the hammer rock shafts to turn them in one direction, hammers arranged beneath the screen of the vibrating member and secured to the rock shafts to be operated thereby, and hammer plates secured to the lower surface of the screen and arranged to be struck by said hammers.

1,380,290. INFORMATION-DISPLAYING DEVICE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Feb. 2, 1920. Serial No. 355,826. 5 Claims. (Cl. 40—65.)



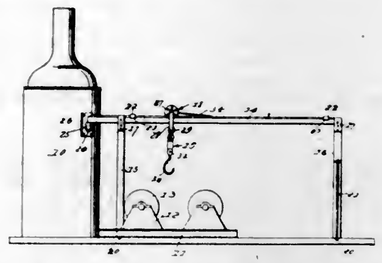
1. In an information-displaying device, circular members having a suitable number of means for receiving and storing information-displaying members in the periphery of the circular members, means disposed over the periphery of the circular member so as to encircle the sides and bottom but leaving a space in the top portion of the periphery for holding the information-displaying members engaged with the circular members in the storing portion of the periphery while allowing a removing of a card when the circular members are turned so as to bring that card to a point where the means are left spaced from the periphery, means for moving the information-displaying members on the circular members to such a point as a selective position, and means for lifting such selected member into displaying position.

1,380,291. TEMPERATURE-REGULATOR. JOHN J. DANYLCHUK, Saskatoon, Saskatchewan, Canada. Filed Mar. 30, 1920. Serial No. 369,946. 1 Claim. (Cl. 219—25.)



In a device of the class described, an electrically heated member having conductor terminals, one of the terminals being connected with one end of the resistant element, a temperature regulator comprising an arm, a lug projecting from said arm and connected to the other of said conductor terminals, a fixed contact carried by said arm and connected with the opposite end of the resistant element, an expansion member associated with said arm and composed of two different metals, a movable contact adjustably mounted upon the expansion member and normally engaged with the fixed contact, said expansion member being actuated by heat radiating from said heated member.

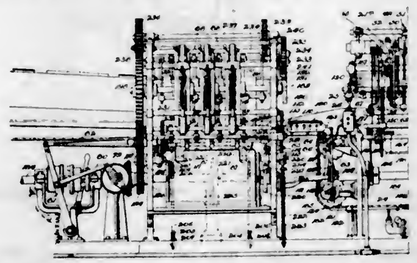
1,380,292. DONKEY-ENGINE CRANE. HARRY A. FREDERICKS, Port Angeles, Wash. Filed Feb. 10, 1920. Serial No. 357,497. 3 Claims. (Cl. 212—71.)



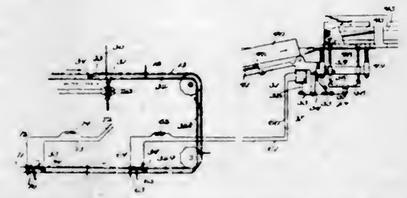
1. An apparatus for the purpose described having parallel track rails and means for supporting the same, carriers or travelers mounted upon said rails and consisting of rollers having depending stirrups, and hoisting devices suspended from the stirrups and provided with means for engaging engine drums, said rollers being provided with peripheral sockets for engagement by an operating pin or rod.

1,380,293. SIGNATURE-GATHERING MACHINE. CHARLES GITZENDANNER, Brooklyn, N. Y., assignor to T. W. & C. B. Sheridan Company, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1919. Serial No. 271,892. 51 Claims. (Cl. 270—56.)

1. In a device of the character described, a support, means for assembling signatures from a plurality of sources of signature supply including a conveyer that progresses the signatures along said support, a plurality of pivoted elements carried by said conveyer, a track or way provided with displaceable sections over which said pivoted elements normally ride, one section being associated with each source of signature supply, detecting means associated with each source of signature supply for displacing its corresponding section to permit one of said elements to drop through said track, and a member operated by said dropped element.

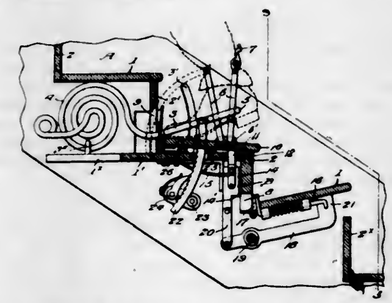


1,380,294. BOOKBINDING-MACHINE. CHARLES GITZENDANNER, Brooklyn, N. Y., assignor to T. W. & C. B. Sheridan Company, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1919, Serial No. 273,052. Renewed Nov. 29, 1920. Serial No. 427,208. 14 Claims. (Cl. 11—1.)



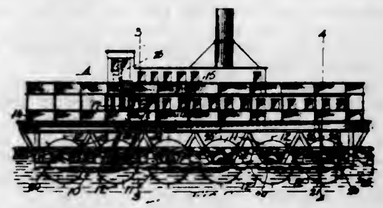
1. In combination, a traveling clamp, a leveling table over which said clamp moves and on which signature-groups rest, means for assembling signatures into groups from a plurality of sources of sheet or signature supply including a main conveyer provided with a plurality of stops or trips carried thereby, means for introducing a group of signatures into said clamp, detecting means associated with each signature source and operating to set one of said stops or trips should an imperfect signature be seized, and means controlled by said set stop elevating said table when a defective group is resting thereon and just before the clamp closes on said group.

1,380,295. STAIRWAY-TRAP. JEREMIAH HICKS, Philadelphia, Pa. Filed May 18, 1920. Serial No. 382,386. 9 Claims. (Cl. 43—59.)



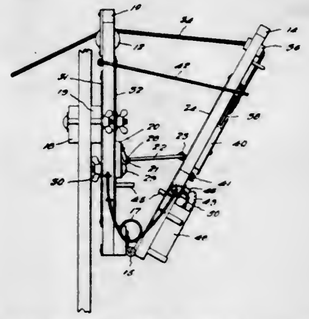
1. In combination with a stairway, a pair of trap jaws connected with one of the steps thereof, spring arms engaging said jaws and connected with a part of the stairway, a trigger plate hinged to the step carrying the jaws, means engaging a part of the stairway for holding the jaws in open position and a trigger actuated by the trigger plate for releasing such means.

1,380,296. BOAT. POINDEXTER HILL, Bethesda, Ark. Filed Aug. 16, 1920. Serial No. 403,718. 3 Claims. (Cl. 114—163.)



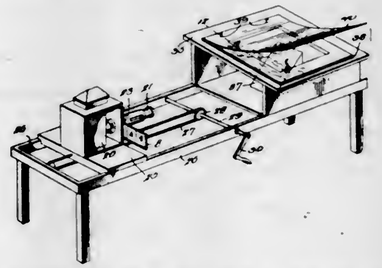
3. In a boat of the buoyant, propelling type comprising transversely disposed paddle wheels, in combination with the shaft of the rear paddle wheel, of rudders, means slidably mounted on the shaft and connected with the rudders and operating the latter, a steering wheel, and a connection between the steering wheel and said means for the purpose specified.

1,380,297. TENSION DEVICE FOR USE IN ORTHOPEDIC SURGERY. CHARLES B. HUGHES, New Orleans, La. Filed Oct. 5, 1920. Serial No. 414,732. 6 Claims. (Cl. 128—84.)



1. In a device of the class described, an arm to be mounted in a fixed position, an arm mounted to swing with reference thereto, a spring for resisting the action of such movement, and a flexible device for moving the second named arm against the action of the spring.

1,380,298. PROCESS OF AND APPARATUS FOR PRODUCING MOVING-PICTURE FILMS. EARL HURD, New York, N. Y. Filed Oct. 30, 1919. Serial No. 334,602. 9 Claims. (Cl. 88—16.)



7. A process as defined in claim 6, wherein the successively projected images of the different poses of the

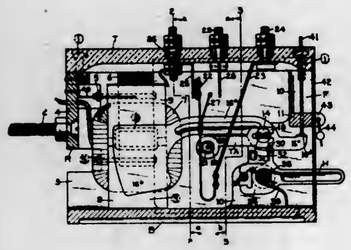
movable object are graduated in size to produce the effect of an advance or recession of said movable object with respect to the picture plane of the first pose.

1,380,299. WAX-FINISH REMOVER. JOHN F. HURLEY, Denver, Colo. Filed July 6, 1920. Serial No. 394,316. 11 Claims. (Cl. 87—5.)

1. A process of making a wax-coating remover which consists in preparing a strong solution of soap in water, then introducing sufficient weak acid into the solution to react with a portion only of the soap, agitating the mixture, and finally adding a wax-coating loosening material capable of dissolving soap.

6. A composition for removing wax-coatings for varnish or other surfaces resulting from the mixture, by weight, of an aqueous solution of substantially eight parts of soap in thirty-two parts of water, with one part of a weak acid capable of reacting with soap, and one part of a generally alcoholic wax-coating loosening solvent capable of dissolving soap.

1,380,300. PROTECTIVE DEVICE. RICHARD C. LEAKE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed July 8, 1919. Serial No. 309,278. 12 Claims. (Cl. 200—89.)



1. A protective device for safeguarding electric interlocking systems comprising a normally closed circuit controller biased to open position, means including a coöperating latch and catch and operatively connected to said circuit controller for holding it in its normal position, and an electro-magnetic device including a vane adapted to trip said latch to permit said circuit controller to open when alternating current is supplied to the electro-magnetic device.

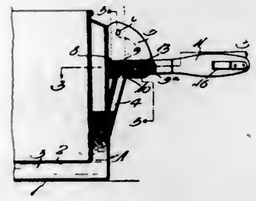
1,380,301. MINE-CAR COUPLING. ISAAC MARTIN, Pittsburgh, Pa. Filed Feb. 28, 1921. Serial No. 448,704. 1 Claim. (Cl. 213—62.)



In a device of the character described, a body, and two oppositely disposed hook members pivoted in said body adjacent to the ends thereof and adapted for engagement through links secured to the draw bars of adjacent cars, said hooks being so relatively positioned within the body as to contact with each other when raised into substantially vertical position.

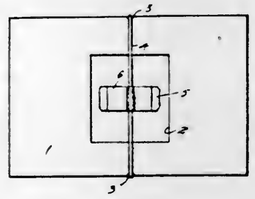
1,380,302. COOKING UTENSIL. PETER MOE, Seattle, Wash. Filed Apr. 15, 1920. Serial No. 374,118. 11 Claims. (Cl. 53—1.)

2. A device of the character set forth comprising a container having an outlet, a handle movable from a horizontal position to a vertical position and adapted to serve as a closure for the outlet, and co-acting means between



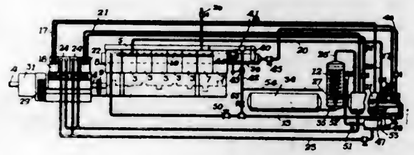
the container and the handle to retain the latter in closing position.

1,380,303. RATTLER. BERNARD NEVIN, Toledo, Ohio. Filed June 18, 1920. Serial No. 389,992. 1 Claim. (Cl. 46—37.)



A rattler comprising a card having an opening and notches in its edges, an elastic band fitting in said notches and extending across said opening, a sound producing element positioned between the runs of the band within the opening, strips secured to said sound producing element and overlying the runs of the band, said sound producing element adapted to be manually rotated until the band is fully twisted, a wrapper about the card and said element and adapted to be positioned in an envelop along with the card, said sound producing device adapted to be rapidly rotated against the wrapper by the band unwinding when the card is removed from the envelop to create a sound.

1,380,304. PROPULSION FOR SUBMARINE VESSELS. FRED E. NORTON, Worcester, Mass. Filed Oct. 11, 1917. Serial No. 195,911. 6 Claims. (Cl. 60—14.)

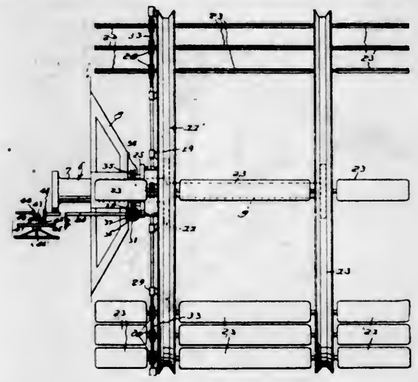


1. The herein described method for the propulsion of a submarine vessel, which consists in making a storing liquid oxygen during the unsubmerged running of the vessel, circulating said oxygen, when the vessel is running submerged, in heat exchanging relation to the exhaust gases from the engines of the vessel, whereby to liquefy said exhaust gases, and employing said liquefied exhaust gases, when the vessel is unsubmerged, to assist in the liquefaction of the oxygen.

1,380,305. VARIABLE-PITCH PROPELLER. HANS P. JENSEN-BEARLUNDD, Lisbon, Portugal. Filed Jan. 31, 1919. Serial No. 274,342. 5 Claims. (Cl. 170—150.)

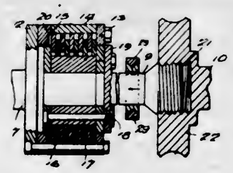
1. In combination with a propeller, a rotatable shaft, a frame carried by and rotating with the shaft, oscillating blades mounted in the frame, members slidably mounted

on the frame and operably connected with the adjacent blades for rocking the blades, means on the shaft having eccentric connection with each of the members for sliding



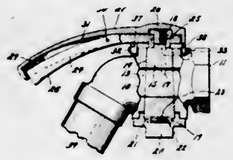
and rotating the members to consequently oscillate the blades to vary the pitch thereof in timed relation with and during the rotation of the shaft.

1,380,306. AUTOMATIC CLUTCH. HANS P. JENSEN-BEARLUNDD, Lisbon, Portugal. Filed July 2, 1919. Serial No. 308,253. 8 Claims. (Cl. 192—103.)



1. In combination, drive, driven and intermediate shaft sections, a clutch connecting the intermediate and driven shaft sections, and means responsive to independent rotary movement of the drive and intermediate shafts to control the clutch.

1,380,307. VALVE. WILLIAM R. H. CAPEWELL, Jamesburg, N. J., assignor of one-fourth to William Heinrich, Merchantville, N. J. Filed Nov. 17, 1919. Serial No. 338,702. 3 Claims. (Cl. 251—165.)



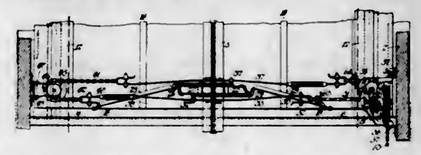
1. An air line valve comprising a body formed with a passage and a plurality of coupling ends and having a vertical bore therein traversing said passage, a valve proper provided with a cross passage and a vertical groove on the periphery, said groove with said body forming a bleed opening, means for movably seating said valve proper in said body, a handle having connection with a valve at the upper end thereof and disposed to operate the valve when the handle is operated to move the valve from an open to a closed or intermediate position relative to said body, the closed position of the valve registering the bleed opening with a passage of one of the coupling ends of the body, a handle covering pivoted on the handle and having the handle lying substantially within the same, a spring normally spacing one end of the handle covering from one end of the handle positioning stop flanges projecting from the body, a finger depending from the handle to engage with certain of said flanges and a second finger projecting from the covering to engage with other of said flanges, the engagement of said fingers with said flanges locking said handle and covering in different positions relative to said body.

1,380,308. COVER FOR DISHES. WILLIAM F. ROGERS, Taunton, Mass., assignor to Reed and Barton Corporation, Taunton, Mass., a Corporation of Massachusetts. Filed Apr. 29, 1920. Serial No. 377,622. 2 Claims. (Cl. 65—16.)



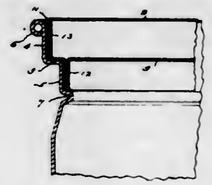
1. A cover for dishes having a flat top closure, and a tapering side wall, and being provided with a supporting ledge on the side wall around its open end, and with a band on the marginal part of the top closure projecting above the plane of the top closure.

1,380,309. MULTIPLE-SASH-OPERATING MECHANISM. CHARLES RUPP, Philadelphia, Pa., assignor to J. S. Thorn Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,400. 8 Claims. (Cl. 268—18.)



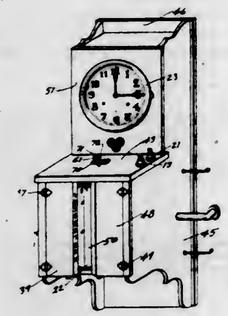
4. The combination with a structure having an opening, the effective area of which is to be controlled; of a closure arranged in movable relation with said opening; a lever pivotally connected with said closure by a link; a second lever pivotally connected with said first lever, by another link; said second lever being L-shaped and having a portion normally extending parallel with and supporting said second link, and a portion extending transversely thereto; and means arranged to actuate said levers to move said closure.

1,380,310. DISH-WASHING-MACHINE RECEPTACLE. FRANK E. WOLCOTT, Hartford, Conn. Filed May 15, 1920. Serial No. 381,661. 4 Claims. (Cl. 220—42.)



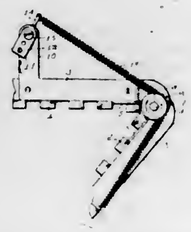
1. A dish washing machine receptacle comprising a tank having its side walls shaped to provide an inwardly extending cover seat below its upper edge and an inwardly extending ledge below said seat, and a cover fitting into the tank with its under surface resting upon said seat, said cover having a lip that extends downward below the seat to said ledge.

1,380,311. AUTOMATIC-CALL CLOCK. CHARLES R. BACON, Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 291,736. 3 Claims. (Cl. 161—2.)



1. A chronological switch comprising a rotatably mounted cylinder having holes chronologically arranged in vertical rows and numerically arranged in horizontal rows and chronological indications for the vertical rows and numerical indications for the horizontal rows, circuit breaker members adapted to be removably inserted in the holes, circuit breaker terminals in position to be engaged by the circuit breaker members, a clock, gearing connecting the clock mechanism to rotate the cylinder intermittently, means for disconnecting the cylinder from the clock, an electric circuit including audible signals and said circuit breaker members, and a switch located in said circuit and adapted to be opened upon the actuation of said means for disconnecting the cylinder from the clock.

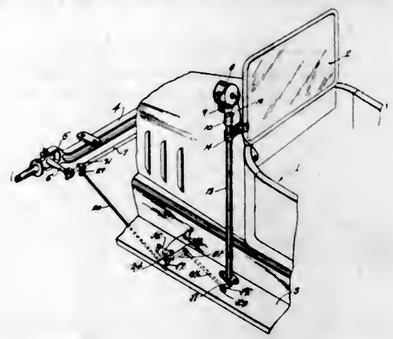
1,380,312. GATE-HINGE. ROBERT PEARCE BELLICAN, Natchez, Miss. Filed Mar. 5, 1921. Serial No. 449,921. 4 Claims. (Cl. 16—25.)



3. The combination with a fence and gate, of a pair of leaves secured against the upper faces of the fence and gate and having registering perforations therein, downwardly extending plates integral with the leaves and secured against the inner faces of the fence and gate, registering bearing sleeves integral with the plates, a hinge pin extending through the bearing sleeves and perforation, a pulley mounted on the upper end of the hinge pin, a contraction spring connecting the leaves and engageable with the pulley upon opening of the gate.

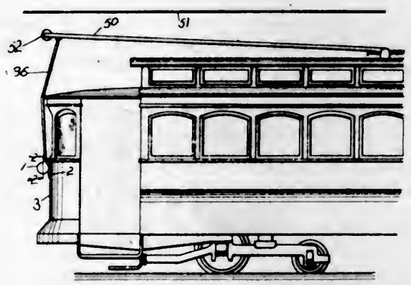
1,380,313. SEARCHLIGHT FOR MOTOR-VEHICLES. BERT CARLISLE, Santa Ana, Calif. Filed June 24, 1920. Serial No. 391,369. 2 Claims. (Cl. 240—62.)

1. The combination with a connecting rod for the steering knuckles of a motor vehicle, of a rotatable supporting rod, a searchlight upon said rod, a pivoted bearing, arms extending from said bearing and said supporting rod, a link connecting said arms, and a connection between said



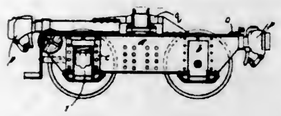
connecting rod and said bearing for turning the latter with the movement of said connecting rod.

1,380,314. TROLLEY-RETRIEVER. IRA L. CARPENTER, Los Angeles, Calif., assignor of one-half to W. E. Ayres, Los Angeles, Calif. Filed Dec. 6, 1920. Serial No. 428,707. 2 Claims. (Cl. 191—85.)



1. A trolley retriever comprising a head carrying a hub and a pawl wheel; a shaft mounted in the hub and key slotted from end to end; a casing mounted upon the head concentric to the shaft; a spring drum; a spring in the spring drum, the inner end of the spring being bent to fit in the key slot and the spring drum fitting loosely in the casing and having heads fitting upon the shaft; pawls carried by one head to engage the pawl wheel; blocks carried by the other head and having pawl faces; a second drum; a second spring in the second drum and having an end bent to fit in the key slot, the second drum being smaller than the casing; heads upon the second drum fitting loosely in the casing and loosely upon the shaft; spring actuated centrifugal pawls carried by one head to engage the blocks; and a rope mounted upon the second drum and extending through the casing.

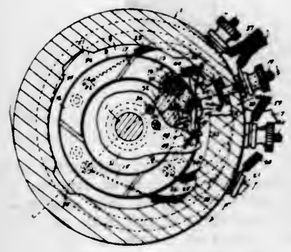
1,380,315. LOGGING-TRUCK. ELBERT G. CHANDLER, Portland, Oreg. Filed Nov. 6, 1919. Serial No. 336,168. 6 Claims. (Cl. 105—160.)



1. A logging truck, the combination of sides each consisting of a one piece metal flanged beam, journal boxes

carried by the sides, the ends of the sides extending a substantial distance beyond said journal boxes, transverse end-sills secured to the flanges of the extensions of the sides, and coupling elements carried by said end-sills, the connection of the end-sills to the flanges of the opposing sides bracing said side extensions to resist bending due to blows delivered against them to thereby prevent the displacement of said end-sills and throwing out of alinement of the coupling elements.

1,380,316. TIMER. EDWARD T. CURTISS, Los Angeles, Calif. Filed Mar. 24, 1919. Serial No. 284,787. 3 Claims. (Cl. 200—19.)



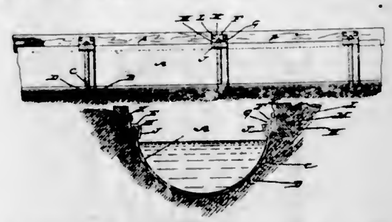
2. In a timer in combination with a timing shaft mounted in a gear housing, a hub fixed upon the shaft having an insulating member, a brush flexibly carried in the insulating member, a casing rotatably mounted against the gear housing, an annular ring positioned within the casing concentric to the timing shaft and opposed to the hub, a commutator ring fixed to the face of the annular ring in the casing and insulated from the casing and positioned to contact with the brush carried by the hub, an annular flange disposed inwardly from the casing having notches equally spaced, a make and break arm pivotally mounted on the hub, an outer end of which carried a pad of insulation and bears with resilient pressure against the notched flange of the casing and having on its inner end a contact point, a spring for holding the outer end of the lever resiliently against the notched flange, a second contact point carried by the hub in electric communication with the timing shaft positioned to be engaged by the point on the inner end of the arm, means electrically connecting the arm with the brush and means for connecting the annular commutator of the casing into the electric circuit of an ignition system.

1,380,317. TOOL-HOLDER. OSCAR GUSTAFSON, Seattle, Wash. Filed May 12, 1920. Serial No. 380,837. 3 Claims. (Cl. 29—96.)



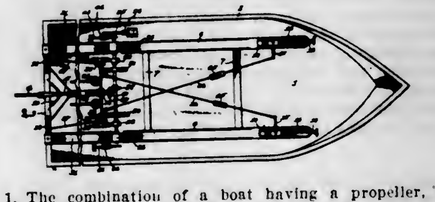
1. A tool holder for the cutters of lathes, boring mill machines, planers, etc., comprising integral shank and head portions, the latter being provided with a groove in its side face extending longitudinally thereof for the reception of a cutter, a bolt extending through a passage in said head and projecting through the face thereof at the top of said groove and extending rearwardly and downwardly oblique to the sides of the head, a notch in the head of the bolt providing an overhanging flange to engage one edge of the cutter and clamp it against the opposite ledge of said groove.

1,380,318. SHEET-METAL FLUME. LEWIS REED, Woods Cross, Utah. Filed Apr. 30, 1919. Serial No. 293,733. 2 Claims. (Cl. 61—15.)



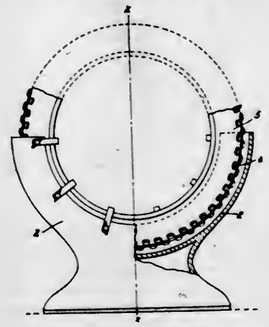
2. A sheet metal flume section having a continuous inwardly extending flange on each end thereof, the flange on one end being on the outer side of the main body of said section and in longitudinal alinement therewith, and the flange on the other end thereof being on the inner side of said body and parallel thereto, which section has a continuous groove adjacent the flange last-mentioned for the reception of a clamping member.

1,380,319. AUTOMOBILE-BOAT. WALTER H. HOUSEMAN and GEORGE BRONSON, Highland Park, Mich. Filed June 28, 1920. Serial No. 392,321. 5 Claims. (Cl. 115—0.5.)



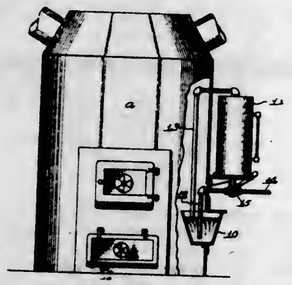
1. The combination of a boat having a propeller, a shaft in said boat for driving the boat propeller, wheels on said shaft, an automobile supported in said boat with its rear wheels in driving relation to said shaft wheels, and steering means for the boat actuated from said shaft and controlled by the steering column assembly of the automobile.

1,380,320. METHOD OF PREPARING RETREAD-MATRIX AND PRODUCT THEREOF. ERNEST C. HUFFORD, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,249. 1 Claim. (Cl. 18—44.)



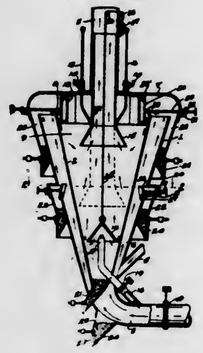
The herein described method of producing a tire retreading matrix which consists in placing a tire casing having the desired tread surface conformation in a mold and arranging said parts so that the tread surface of the casing is spaced apart from the surface of the mold then pouring molten metal in the space between the mold and tread surface of the casing and then applying the retreading matrix so formed to the tire that is to be retreaded.

1,380,321. AIR-MOISTENING STRUCTURE FOR HOT-AIR FURNACES. ERNEST G. LIEBOLD, Detroit, Mich. Filed Jan. 19, 1920. Serial No. 352,504. 2 Claims. (Cl. 126—113.)



1. In air moistening means for hot air furnaces, an open-top container accessible to the flowing heated air of the furnace, a supply tank external of the furnace, and having a supply pipe leading therefrom to a point adjacent the bottom of the container, and a control pipe leading from the top of the tank and opening into the container at a point spaced above the plane of the discharge end of the supply pipe, the spacing distance being greater than the distance between such discharge end and the container bottom to produce a liquid content within the container above such discharge end sufficient to cause disturbance of such content substantially throughout the container and eliminate static conditions within the container by the delivery of liquid at such discharge end, said tank being positioned above the plane of the liquid level produced by the action of the control pipe.

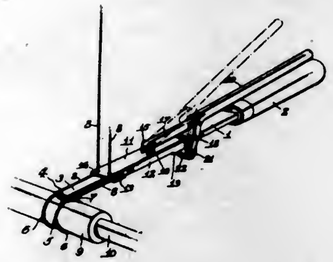
1,380,322. PNEUMATIC DUST-SEPARATOR. LYCURGUS LINDSAY and ERNEST M. DAVIDS, Los Angeles, Calif. Filed Apr. 20, 1920. Serial No. 375,335. 7 Claims. (Cl. 83—54.)



1. A separator comprising an upwardly inclined conical passage of increasing width, an air intake at the lower end of said passage directing air upwardly through the same, means for directing material downwardly into the path of said air in said passage, suction creating means at the upper end of said passage, and take-off spouts at different levels along the outer wall of said passage.

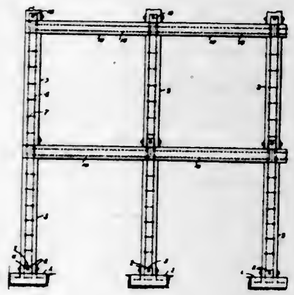
1,380,323. WIRE-BENDING TOOL. JAMES MCVAY, River Rouge, Mich. Filed Mar. 18, 1920. Serial No. 366,974. 1 Claim. (Cl. 81—9.3.)

A tool of the type described comprising a bar having a groove at its outer end adapted to engage a wire yoke having wire ends extending through the yoke to form loop portions adapted to be drawn taut, a slide head on said bar and of greater width than said bar and having openings at its outer end and adjacent the side edges of said bar to receive the wire ends of said yoke, a lever having a bifurcated end supported from the one face of



said bar, and a link connecting said lever to said slide head for shifting said slide head on said bar so that the wire ends in the outer end of said slide head may be drawn taut by movement of said slide head on said bar, said wire ends being bent relative to said yoke by bodily swinging said tool through an arc relative to said yoke.

1,380,324. CONCRETE CONSTRUCTION. WILLIAM S. PIGGINS, Detroit, Mich. Filed Jan. 30, 1919. Serial No. 273,955. 1 Claim. (Cl. 72—1.)

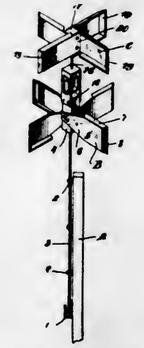


In concrete construction, the combination of a column having longitudinal reinforcing members extending above its upper end, beams having heads abutting each other on said column, said beams having longitudinal reinforcing members therein, the ends of the longitudinal members being formed with sockets adapted to receive the upper ends of the reinforcing members of the column and angle plates spaced from the ends of the beams having one flange embedded in the beam substantially parallel to its longitudinal axis and the other flange extending upward above the surface of the beam, the flanges of the several beams upon the column together forming a socket adapted to receive the lower end of another column seated on said beam ends and connected to the vertical flanges of said angle plates.

1,380,325. TOY WIND-WHEEL. HERMAN SCHLIRF, Milwaukee, Oreg. Filed Apr. 9, 1920. Serial No. 372,726. 4 Claims. (Cl. 46—14.)

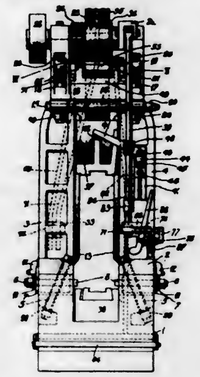
1. A toy comprising a standard, a bracket on the standard, a rotatable wind wheel on the standard having its

end supported on the bracket, a one piece supporting member mounted on the wind wheel and a second wind



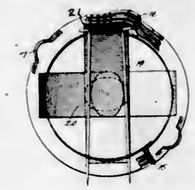
wheel carried in the supporting member and adapted for rotation in an opposite direction to the first named wind wheel.

1,380,326. DROP-HAMMER. WARREN W. STOLER, Detroit, Mich. Filed Mar. 29, 1919. Serial No. 285,989. 2 Claims. (Cl. 78—29.)



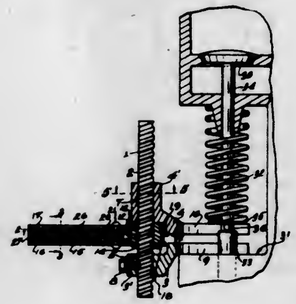
1. A drop hammer having a base and opposed frames thereon, depending lugs carried by said frames and extending into the hammer base, T bolts for laterally adjusting the frames on the base and extending through said lugs and each bolt having an exposed head against the inner wall of said base, a nut against the opposite side of each lug so that the bolts may readily be removed without lifting said frames from said base, and means for anchoring said frames on said base.

1,380,327. TRANSPLANTING-RECEPTACLE. LIONEL WEIL, Goldsboro, N. C. Filed June 14, 1920. Serial No. 388,820. 5 Claims. (Cl. 55—119.)



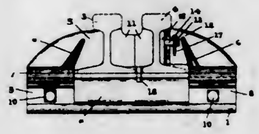
1. A transplanting receptacle, including a pair of side walls hingedly secured together, and means associated with said side walls adjacent their lower edges for supporting substances within said receptacle, and means for bracing said supporting means.

1,380,328. VALVE-SPRING LIFTER FOR INTERNAL-COMBUSTION ENGINES. GEORGE T. WROUGHTON, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,346. 1 Claim. (Cl. 29—86.3.)



A device of the character described including a screw, a nut threaded upon said screw, a ratchet upon said nut, a handle oscillatively mounted upon said nut, a double pawl pivoted upon said handle and arranged to have one or the other tooth thereof in engagement with said ratchet, a lug projecting rearwardly from said pawl, and a spring secured to said handle and received around the lug of said pawl at the opposite ends for yieldably forcing said pawl into one or the other of its positions.

1,380,329. GUARD-RAIL CLAMP. ROBERT E. YOLTON, Birmingham, Ala., assignor to Kilby Frog & Switch Company, a Corporation of Alabama. Filed Dec. 18, 1920. Serial No. 431,690. 3 Claims. (Cl. 238—20.)



1. A guard rail clamp comprising, in combination, a pair of rail engaging clamp elements having transversely slotted bases projecting below the rails, a base member having a top flange adapted to support the rails to be clamped, means to rigidly mount said clamp elements on the ends of said base member, and a taper member adapted to wedge the assembled clamp in operative engagement with the rails.

1,380,330. FLEXIBLE COUPLING. GEORGE J. ZIEGLER, Los Angeles, Calif., assignor of one-third to Sherwin Gibbons, one-third to Ernest Stewart, and one-third to Frederick C. Beutel, Los Angeles, Calif. Filed Feb. 24, 1920. Serial No. 360,560. 1 Claim. (Cl. 64—101.)

A flexible shaft coupling comprising a disk keyed to the drive shaft, a disk keyed to the driven shaft, a transmission disk juxtaposed intermediate said disks, said transmission disk having radial slots in its periphery, pins in said first mentioned disk, rollers on said pins, said pins and rollers adapted to engage diametrically opposed slots in the transmission disk, similar pins and rollers on the second mentioned disk adapted to occupy the oppositely disposed members of a pair of the slots in the transmission disk, a marginal flange projecting outwardly from one

side of the first mentioned disk and inclosing the second mentioned disk and the transmission disk, and a ring

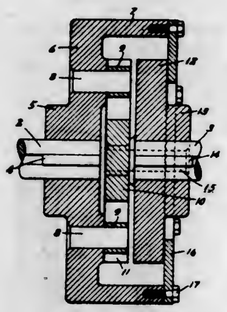
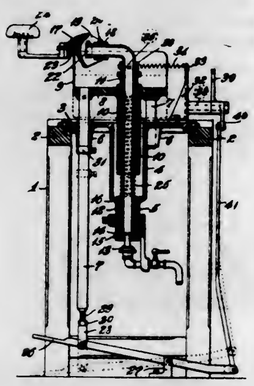


plate secured to the face of said marginal flange and adapted to contact with the rear face of the second mentioned disk to form an oil chamber.

1,380,331. COLLAR-SHAPING MACHINE. CHARLES L. BRALEY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 2, 1916, Serial No. 134,707. Renewed Oct. 29, 1920. Serial No. 420,577. 20 Claims. (Cl. 68—9.)

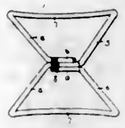


1. In a collar shaper, a collar form member, an ironing member, means normally tending to produce ironing engagement and pressure between said members, a hand operated device connected to one of said members for producing relative rotative ironing movement, and means for preventing movement of said ironing member by the operator out of a fixed orbit while said members are in ironing engagement.

6. A collar shaper, comprising an ironing member, a collar form member, a hand operated device for moving one of said members into ironing position and in a fixed orbit during the ironing operation, and means for normally forcing the other of said members into ironing engagement with said first named member.

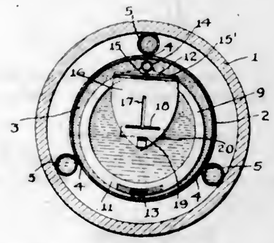
1,380,332. SUPPORT FOR REINFORCING-BARS. STEPHEN L. HEIDRICH, Brooklyn, N. Y. Filed Dec. 31, 1919. Serial No. 348,571. 1 Claim. (Cl. 72—122.)

A reinforcing bar support constructed of a single piece of wire and consisting of a semi-circular seat, downwardly diverging supporting legs therefor, and curved spacing elements connecting several of the legs, the terminals of



the wire being bent on each side, contiguous with and shaped in conformity with the seat.

1,380,333. SURVEYING INSTRUMENT. JERMAN ROSALES, New York, N. Y. Filed Apr. 8, 1920. Serial No. 372,123. 11 Claims. (Cl. 33—46.)

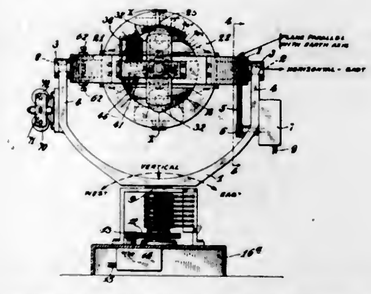


1. In combination, a tube and a disk pivotally mounted in said tube and having two slots therein at right angles to each other, said disk having movement about two axes which are at right angles to each other.

1,380,334. PROCESS FOR TREATING MEAL OR FLOUR AND MILLING PRODUCTS. EGBERT CORNELIS SUTHERLAND, Deventer, Netherlands, assignor to Naamlooze Vennootschap Industrieele Maatschappij voorheen Noury & van der Lande, Deventer, Netherlands, a Corporation of Netherlands. Filed Dec. 12, 1916. Serial No. 136,551. 17 Claims. (Cl. 83—42.)

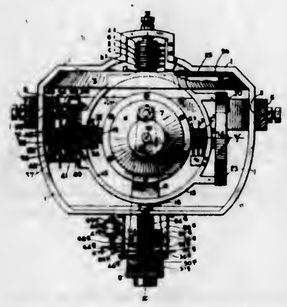
1. A process of treating flour, meal, and milling products, which comprises mixing the product with a reagent containing as its essential constituent, a peroxid compound, and decomposing said compound while mixed with said product, under conditions capable of producing active oxygen in contact therewith, and while maintaining substantially the normal consistency of said product.

1,380,335. GYROSCOPIC DEVICE AND METHOD. CLIFFORD M. PAXTON, Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation, a Corporation of New York. Filed Oct. 29, 1920. Serial No. 420,372. 43 Claims. (Cl. 33—204.)



1. The method of enabling a freely mounted gyro to maintain its spinning axis approximately in a fixed-direction celestial meridian plane, which method consists in applying counter-torque, to obviate the effects of earth torque, as regards tendency to rotate the gyro axis in the plane of earth spin, and as regards tendency to cause precession at right angles to said plane.

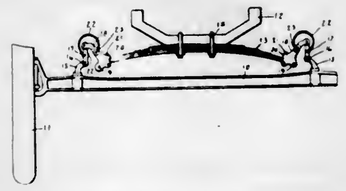
1,380,336. GYROSCOPIC DEVICE AND METHOD. CLIFFORD M. PAXTON, Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation, a Corporation of New York. Filed Nov. 26, 1920. Serial No. 426,600½. 24 Claims. (Cl. 33—204.)



1. The method of modifying the effect of a slowly applied torque on a direction-indicating gyro, which method consists in actively and suddenly applying, continuing and removing relatively great, non-positive stresses in the same direction with said torque, and then in the opposite direction, alternately.

REISSUES.

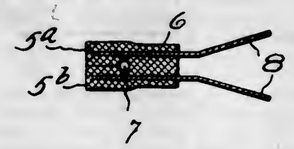
15,113. SHOCK-ABSORBER. GEORGE G. F. BOSWELL, Indianapolis, Ind. Filed Sept. 3, 1919. Serial No. 321,463. Original No. 1,242,316, dated Oct. 9, 1917, Serial No. 135,782, filed Dec. 8, 1916. 9 Claims. (Cl. 267—19.)



9. The combination with the axle of a vehicle, a semi-elliptical main spring for the vehicle, and a rigid upwardly-extending supporting member secured near each end of the axle, of a member adapted to pivotally support the end of the main spring, pivot bars for supporting one end of said spring-supporting member upon and at a point higher than said rigid supporting member, yielding means tending to resist movement of said spring-supporting member under the influence of a load on said main spring, and means for adjusting the position of the main spring-supporting means with reference to the main spring and said pivot bars with reference to their rigid supporting means.

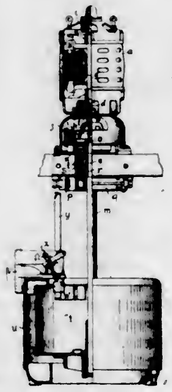
15,114. METHOD OF REGULATING SOUND-BOX REPRODUCTION. EMIL GRUENFELDT, Cleveland, Ohio. Filed Jan. 17, 1921. Serial No. 438,007. Original No. 1,170,530, dated Feb. 8, 1916, Serial No. 1,239, filed Jan. 8, 1915. 2 Claims. (Cl. 274—27.)

1. The method of regulating the reproduction of sound from a sound box, which consists in adjustably engaging with the needle arm of said sound box, between its point of connection with the diaphragm and its point of connection with said sound box, a mass of yieldable material and supporting said regulating mass solely by said needle arm and effecting the reproduction desired by utilizing the weight and yieldability of said mass and moving the same to and fro along said needle arm.



2. The method of regulating the reproduction of sound from a sound box, which consists in adjustably engaging with the needle arm of a sound box, between its point of connection with the diaphragm and its point of connection with the sound box, a regulating mass of sound deadening material and supporting said regulating mass solely by said needle arm and effecting the reproduction desired by utilizing the weight of said mass and moving the same to and fro along the needle arm.

15,115. METHOD OF DRIVING ELECTRIC CENTRIFUGAL MACHINES. EDWARD D. MACKINTOSH, deceased, Brooklyn, N. Y., by S. S. Hepworth Company, New York, N. Y., a Corporation of New York, and Edith M. Mackintosh, Brooklyn, N. Y., assignees. Filed Mar. 2, 1921. Serial No. 449,225. Original No. 1,342,405, dated June 1, 1920, Serial No. 262,051, filed Nov. 11, 1918. 6 Claims. (Cl. 210—72.)

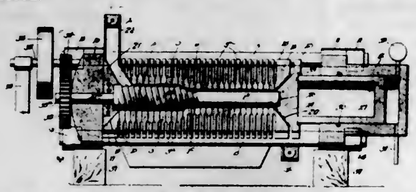


1. A centrifugal machine comprising a multispeed electric motor, a centrifugal basket or the like, a friction clutch drive connection between the motor and the basket, the low speed drive of the motor exceeding a proper unloading speed, in combination with an unloader serving by its drag on the material in the basket to cause the friction clutch to slip and thus to reduce the speed of the basket to one suitable for unloading, substantially as described.

15,116. OIL-EXTRACTING APPARATUS. FRED STRICKLAND, Anderson, S. C. Filed Jan. 26, 1918. Serial No. 214,028. Original No. 1,233,930, dated July 17, 1917, Serial No. 120,861, filed Sept. 18, 1916. 8 Claims. (Cl. 100—48.)

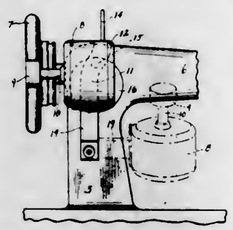
1. A press for the purpose specified comprising a spirally grooved compressor which is circular in cross section, and a body surrounding said compressor which is formed of a series of plates having thickened hub portions and reduced or thinner outer portions, the hubs having ducts leading outward from the compressor into

the space between the outer portions of the plates as described.



7. In a press of the character described, the combination of a compressor formed of two lengthwise cylindrical portions differing in diameter, and an intermediate tapering portion by which they are connected, the larger and tapered portions having a spiral feed groove, a body surrounding said compressor, and fitting it throughout its larger diameter and tapering portion, but having a narrow annular space around the smooth portion of smaller diameter and extending beyond the end of said smaller portion, means for laterally discharging the expressed oil from said body, means connected to said compressor at the end of greatest diameter for supporting and driving it, a closure for the discharge end of said body and the small end of said compressor, and means for applying constant pressure to said closure tending to close the discharge.

15,117. MOTOR-SUPPORT FOR SEWING-MACHINES. WILLIAM O. TAYLOR, Montreal, Quebec, Canada. Filed Jan. 13, 1920. Serial No. 351,249. Original No. 1,308,456, dated July 1, 1919, Serial No. 262,236, filed Nov. 12, 1918. 3 Claims. (Cl. 248—30.)



1. In combination with a sewing machine head having a driving wheel and a spool support at the upper portion thereof, of an electric motor having a friction wheel adapted to engage the drive wheel, and a supporting bracket for said motor comprising a member adapted to extend over the spool support and engage the same, a portion extending downwardly at the side of the sewing machine head, and a member connecting the motor with said downwardly extending portion in such a manner that said portion is normally held away from the sewing machine head by reason of engagement of the friction wheel with the driving wheel.

DESIGNS.

58,008. FINGER-RING. FRANK AMATI, Trenton, N. J. Filed May 8, 1920. Serial No. 379,982. Term of patent 14 years.



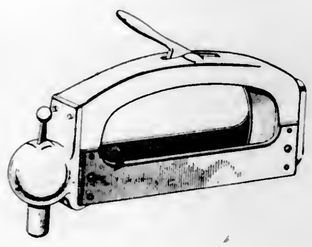
The ornamental design for a finger ring as shown.

58,009. FLYTRAP. JAN BAJ and LUCI MARCINIAK, Port Chester, N. Y. Filed Sept. 29, 1920. Serial No. 413,623. Term of patent 7 years.



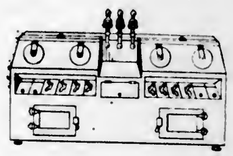
The ornamental design for a flytrap as shown.

58,010. FRAME FOR A CLOTHES-WRINGER. HARRY O. BARTLETT, Washington, D. C., assignor to Bowers & Bartlett, Inc., Washington, D. C., a Corporation of Maryland. Filed Aug. 16, 1920. Serial No. 403,961. Term of patent 14 years.



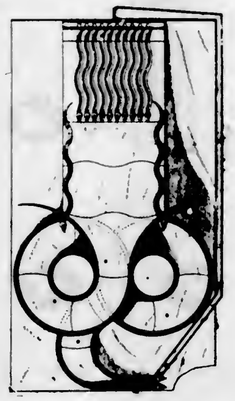
The ornamental design for a frame for a clothes wringer, as shown.

58,011. SODA-FOUNTAIN AND ICE-CREAM-DISPENSING APPARATUS. WILLIAM FRANKLIN BEATTY, Cincinnati, Ohio. Filed Mar. 22, 1920. Serial No. 367,885. Term of patent 14 years.



The ornamental design for a soda-fountain and ice-cream dispensing apparatus, as shown.

58,012. GAME. HENRY M. BECKER, Hartford, Conn. Filed Feb. 1, 1921. Serial No. 441,677. Term of patent 14 years.



The ornamental design for a game, as shown.

58,013. LAMP-SHADE. DOROTHY L. BEVAN, San Francisco, Calif. Filed Oct. 7, 1920. Serial No. 415,456. Term of patent 14 years.



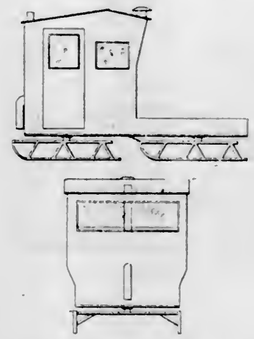
The ornamental design for a lamp shade substantially as shown.

58,014. BOTTLE-HOLDER. WILLIAM T. BRADSHAW and ARTHUR J. BOND, Oakland, Calif. Filed Oct. 25, 1920. Serial No. 419,229. Term of patent 14 years.



The ornamental design for a bottle holder as shown.

58,015. SLED. VICTOR T. BROBERG, Luck, Wis. Filed Aug. 13, 1920. Serial No. 403,406. Term of patent 7 years.



The ornamental design for a sled, as shown.

58,016. RAIL-BOND TERMINAL. JOHN ROWLAND BROWN, Cleveland, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 9, 1920. Serial No. 402,441. Term of patent 14 years.



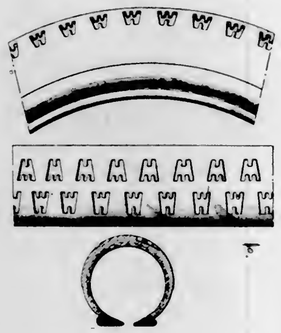
The ornamental design for a rail bond terminal as shown.

58,017. AUTOMOBILE-TIRE. WILLIAM A. BRUBAKER, Akron, Ohio, assignor to Nu-Cord Rubber Company, Greensburg, Pa. Filed June 12, 1920. Serial No. 388,652. Term of patent 7 years.



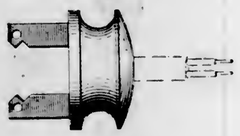
The ornamental design for an automobile tire substantially as shown.

58,018. VEHICLE TIRE OR CASING. EDWARD L. CAMPBELL, Winona, Minn., assignor to The J. R. Watkins Company, Winona, Minn., a Corporation of Minnesota. Filed Nov. 10, 1920. Serial No. 423,193. Term of patent 14 years.



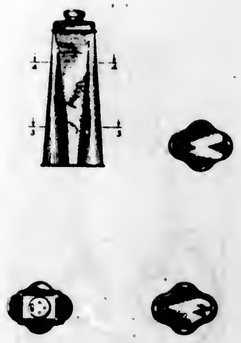
The ornamental design for a vehicle tire or casing, substantially as shown.

58,019. RECEPTACLE-PLUG. PAUL R. COLLIER, Philadelphia, Pa. Filed Sept. 30, 1920. Serial No. 413,922. Term of patent 7 years.



The ornamental design for a receptacle plug substantially as shown.

58,020. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. MARTHA HALOWELL CONNOR, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 8, 1921. Serial No. 459,561. Term of patent 14 years.



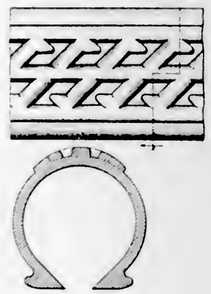
The ornamental design for a sifter top can or similar receptacle, as shown.

58,021. WATCHCASE OR LOCKET. JOSEPH DAVING, New York, N. Y. Filed May 31, 1918. Serial No. 237,645. Term of patent 3½ years.



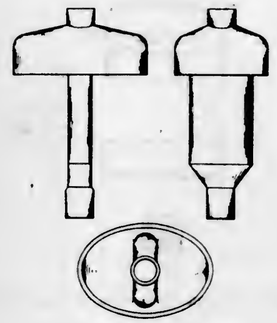
The ornamental design for a watchcase or locket as shown.

58,022. ELASTIC VEHICLE-TIRE. DAYTON A. DOYLE, Jr., Akron, Ohio. Filed May 21, 1920. Serial No. 383,290. Term of patent 14 years.



The ornamental design for an elastic vehicle tire as shown.

58,023. PREHEATING-CHAMBER FOR DOMESTIC BOILERS. LEO V. GELDER, Oakland, Calif. Filed July 19, 1920. Serial No. 397,515. Term of patent 7 years.



The ornamental design for a preheating chamber for domestic boilers, as shown.

58,024. KNIFE AND FORK CLEANER. JACOB J. GOTTFRIED, Brooklyn, N. Y. Filed Dec. 3, 1920. Serial No. 428,134. Term of patent 3½ years.



The ornamental design for a knife and fork cleaner, as shown.

58,025. LINGERIE-CLASP. CHARLES G. HULTMAN, Providence, R. I. Filed Dec. 8, 1920. Serial No. 429,292. Term of patent 3½ years.



The ornamental design for a lingerie clasp, as shown.

58,026. SIFTER-TOP FOR A POWDER-CAN OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Sept. 25, 1920. Serial No. 412,868. Term of patent 14 years.



An ornamental design for a sifter top for a powder can or similar receptacle, substantially as shown.

58,027. COMBINATION LAMP-STAND AND SMOKING SET. SIDNEY M. ISRAEL, Richmond Hill, N. Y. Filed Nov. 19, 1920. Serial No. 425,281. Term of patent 7 years.



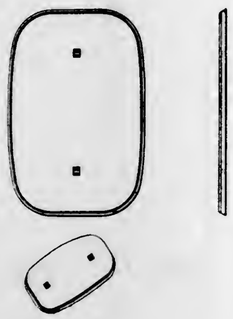
The ornamental design for a combination lamp stand and smoking set as shown.

58,028. COMBINATION LAMP-STAND AND SMOKING SET. SIDNEY M. ISRAEL, Richmond Hill, N. Y. Filed Nov. 19, 1920. Serial No. 425,282. Term of patent 7 years.



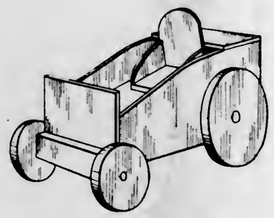
The ornamental design for a combination lamp stand and smoking set as shown.

58,029. SERVING-TRAY WARMER. WILLIAM C. JURGENS, Oakland, Calif. Filed July 19, 1920. Serial No. 397,506. Term of patent 14 years.



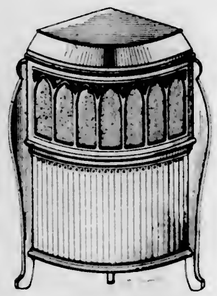
The ornamental design for a serving tray warmer.

58,030. DOLL-WAGON. CHARLES J. KERN, Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y., a Corporation of New York. Filed Nov. 20, 1920. Serial No. 425,563. Term of patent 7 years.



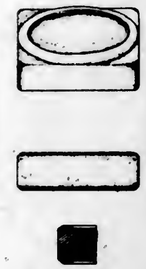
The ornamental design for a doll-wagon, as shown.

58,031. PHONOGRAPH-CABINET. HENRY KNAUB, Richmond, Va. Filed Jan. 19, 1921. Serial No. 438,451. Term of patent 14 years.



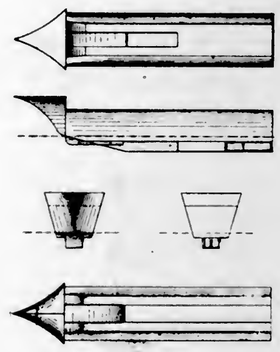
The ornamental design for a phonograph cabinet as shown.

58,032. CAKE OF SOAP. ARTHUR C. LANG, Chicago, Ill., assignor to The N. K. Fairbank Company, Chicago, Ill., a Corporation of New Jersey. Filed May 20, 1920. Serial No. 382,989. Term of patent 14 years.



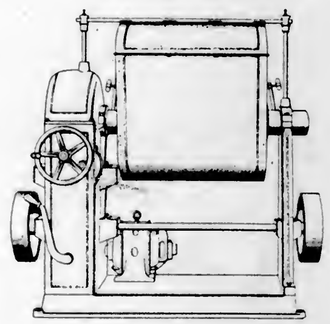
The ornamental design for a cake of soap as shown.

58,033. BOAT-HULL. JOHN E. LANGSTAFF, Brooklyn, N. Y. Filed Apr. 23, 1920. Serial No. 376,152. Term of patent 14 years.



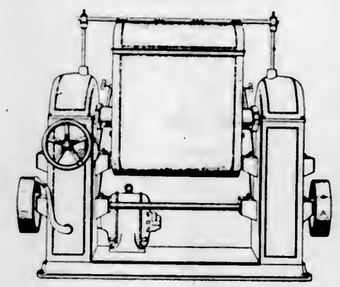
The ornamental design for a boat-hull substantially as shown.

58,034. DOUGH-MIXER. FRANK X. LAUTERBUR, Sidney, Ohio. Filed Oct. 6, 1919. Serial No. 328,911. Term of patent 14 years.



The ornamental design for a dough mixer, as shown.

58,035. DOUGH-MIXER. FRANK X. LAUTERBUR, Sidney, Ohio. Filed Oct. 6, 1919. Serial No. 328,912. Term of patent 14 years.



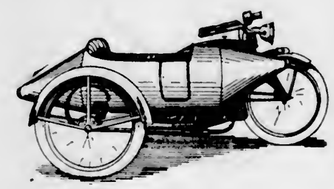
The ornamental design for a dough mixer, as shown.

58,036. TOY GLIDER. WILLIAM F. LEBZELTER, Elizabethtown, Pa., assignor to The Century Manufacturing Company, Inc., Elizabethtown, Pa., a Corporation of Delaware. Filed Jan. 21, 1921. Serial No. 439,026. Term of patent 3½ years.



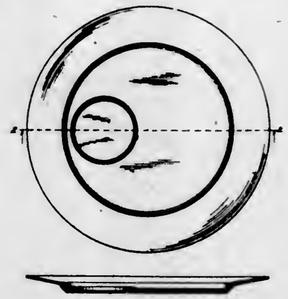
The ornamental design for a toy glider, as shown.

58,037. SIDE CAR FOR MOTORCYCLES. ONÉSIME LEMIEUX and GEORGE LIBOIRON, Montreal, Quebec, Canada. Filed Oct. 12, 1920. Serial No. 416,556. Term of patent 3½ years.



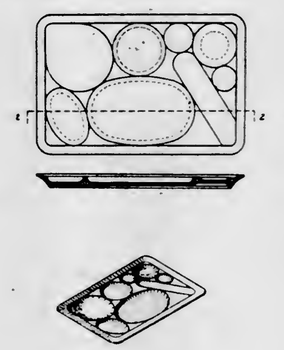
The ornamental design for a side car for motorcycles as shown.

58,038. REFRESHMENT-PLATE. MARGARET MCINERNEY, Los Angeles, Calif. Filed Aug. 5, 1920. Serial No. 401,526. Term of patent 7 years.



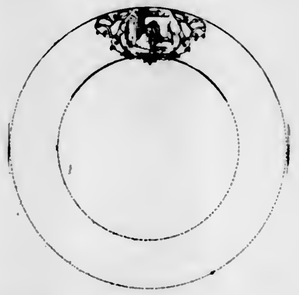
The ornamental design for a refreshment plate as shown.

58,039. DINNER-PLATE. EMIL J. MEISSNER, West Hoboken, N. J. Filed Oct. 1, 1920. Serial No. 414,122. Term of patent 7 years.



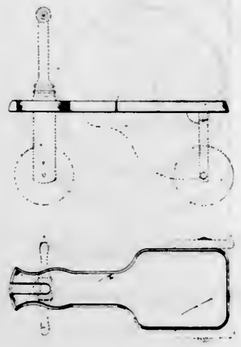
The ornamental design for a dinner plate as shown.

58,040. PLATE OR SIMILAR ARTICLE. SAMUEL I. MORLEY, Sebring, Ohio, assignor to The Sebring Pottery Company, Sebring, Ohio, a Corporation of Ohio. Filed Nov. 10, 1920. Serial No. 423,190. Term of patent 3½ years.



The ornamental design for a plate or similar article, substantially as shown.

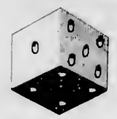
58,041. SEAT-BODY FOR CHILDREN'S VEHICLES. HARRY G. NORWOOD, Baltimore, Md., assignor to William Andrew Fuld, Baltimore, Md. Filed Oct. 8, 1920. Serial No. 415,704. Term of patent 14 years.



The ornamental design for a seat body for children's vehicles as shown.

58,042. CONFECTIONERY OR CHEWING-GUM UNIT. GEORGE HEBARD PAINE, Rockville Center, N. Y. Filed May 17, 1920. Serial No. 382,184. Term of patent 14 years.





The ornamental design for a confectionery or chewing gum unit as shown.

58,043. STAPLE. NIELS PETER PLOUGMANN, Laurel, Nebr. Filed Nov. 10, 1919. Serial No. 337,030. Term of patent 7 years.



The ornamental design for a staple, as shown.

58,044. LAMP. RALPH W. POE, Canton, Ill. Filed June 19, 1920. Serial No. 390,261. Term of patent 7 years.



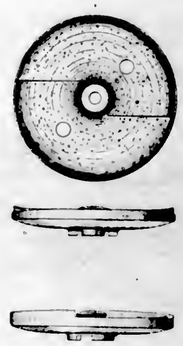
The ornamental design for a lamp as shown.

58,045. EMBLEM OR BADGE. ANNIE M. POND, New York, N. Y., assignor to Order of the Eastern Star State of New York, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1920. Serial No. 401,519. Term of patent 14 years.



The ornamental design for an emblem or badge, as shown.

58,046. VEGETABLE-PEELING DISK. CHARLES F. SMITH, Chicago, Ill., assignor to Maxim Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 22, 1920. Serial No. 398,323. Term of patent 14 years.



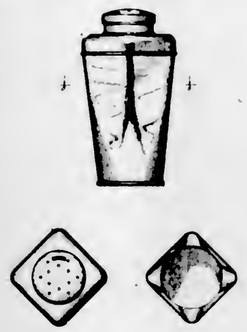
The ornamental design for a vegetable peeling disk as shown.

58,047. SELF-ILLUMINATING PENDANT. THEODORE C. SMITH, Philadelphia, Pa. Filed Oct. 28, 1919. Serial No. 334,093. Term of patent 14 years.



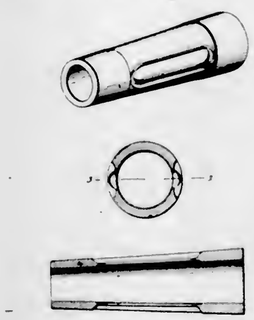
The ornamental design for a self illuminating pendant as shown.

58,048. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. OLE M. SVENDSEN, Baltimore, Md., assignor to Federal Tin Company, Incorporated, Baltimore, Md., a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,496. Term of patent 3½ years



The ornamental design for a sifter top can or similar receptacle, as shown.

58,049. AXLE-LUBRICATING SLEEVE. CHARLES H. THOMPSON, Lynchburg, Va., assignor to Thornhill Wagon Company, Lynchburg, Va. Filed Nov. 2, 1920. Serial No. 421,420. Term of patent 14 years.



The ornamental design for an axle lubricating sleeve, as shown.

58,050. BAKING-IRON. ELMER J. TSCHANTZ, Canton, Ohio. Filed Dec. 16, 1920. Serial No. 431,267. Term of patent 7 years.



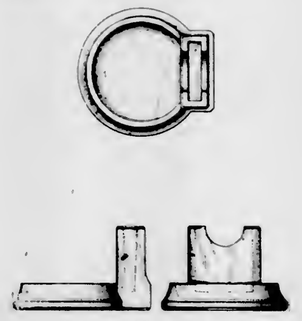
The ornamental design for a baking iron, as shown.

58,051. INFANT'S FOOTWEAR. JOHN TWEEDIE, St. Louis, Mo., assignor to Tweedie Footwear Corporation, Jefferson City, Mo., a Corporation of Missouri. Filed Sept. 3, 1920. Serial No. 408,034. Term of patent 14 years.



The ornamental design for infant's footwear, as shown.

58,052. COMBINATION MATCH AND ASH TRAY. GEORGE R. WEST, Pittsburgh, Pa., assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1919. Serial No. 343,606. Term of patent 14 years.



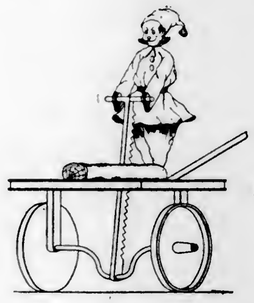
The ornamental design for a combination match and ash tray substantially as shown.

58,053. PAIL. JAMES H. WILSON, Chicago, Ill., assignor to Wilson & Bennett Mfg. Co., Chicago, Ill. Filed Nov. 8, 1919. Serial No. 336,748. Term of patent 14 years.



The ornamental design for a pail as shown.

58,054. TOY. STANLEY WOJCIK, Orenco, Oreg. Filed Apr. 6, 1921. Serial No. 459,159. Term of patent 7 years.



The ornamental design for a toy as shown.

TRADE-MARKS

OFFICIAL GAZETTE, MAY 31, 1921.

[PUBLISHED JUNE 13, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 101,788. (CLASS 12. CONSTRUCTION MATERIALS.) LA-LO CHEMICAL COMPANY, Providence, R. I. Filed Feb. 28, 1917.

CEMENTITE

Particular description of goods.—Hardening and Waterproofing Liquid for Treating Concrete Floors.
Claims use since Nov. 30, 1915.

Ser. No. 112,503. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL CLOAK & SUIT Co., New York, N. Y. Filed Aug. 3, 1918. Under ten-year proviso.

National

Particular description of goods.—Linens, Pure Linens, and Pure Irish Linens Made in the Piece, Shepherd Check Made of Wool and Wool and Cotton, Woolen Piece Goods, Cotton Piece Goods, Wool and Cotton Piece Goods; Silk Piece Goods, Silk and Wool Piece Goods, Silk and Cotton Piece Goods; Colored Wash Fabrics Consisting of Dress Piece Goods of Cotton, Silk, and Silk and Cotton; Comforters for Beds, Blankets, Lace Curtains and Laces, Lace Flouncings in Piece, Handkerchiefs, and Veils.
Claims use since 1888.

Ser. No. 119,215. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BENJAMIN SCHRIRO, New York, N. Y. Filed June 4, 1919.



Particular description of goods.—Non-Alcoholic and Non-Cereal, Maltless Beverages Sold as Soft Drinks.
Claims use since May 1, 1919.

Ser. No. 119,887. (CLASS 15. OILS AND GREASES.) HAMMER & CO., San Francisco, Calif. Filed June 24, 1919.

MARINA

Particular description of goods.—Gasolene and Kerosene.
Claims use since 1918.

Ser. No. 121,190. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., Prague, Bohemia. Filed Aug. 1, 1919.



Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Safety-Pins, Snap-Fasteners, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buttons Not Made of Precious Metal, Buckles for Personal Wear Not Made of Precious Metal, Thimbles, Straight Solid-Headed Pins for Personal Use, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear Not Made of Precious Metal, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.
Claims use since Feb. 3, 1920.

Ser. No. 122,050. (CLASS 37. PAPER AND STATIONERY.) PENINSULAR PAPER COMPANY, Ypsilanti, Mich. Filed Aug. 27, 1919.

ORKID

Particular description of goods.—Printing, Writing, Cover, and Bond Paper for Wrapping, Writing, and Printing Purposes.
Claims use since February, 1902.

Ser. No. 124,726. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MOLINE CHEMICAL COMPANY, Moline, Ill. Filed Nov. 10, 1919.

C-it

Particular description of goods.—A Non-Greasy Granulated Chemical Cleanser for Softening Water and for Cleaning Woven Material or Metal, Wood, or Composition Objects and Surfaces.
Claims use since July 10, 1919.

Ser. No. 125,149. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE H. BUGENHAGEN, Minot, N. D. Filed Nov. 21, 1919.

THE PAL SWING

No claim is made to the word "Swing," apart from the other features of the trade-mark.
Particular description of goods.—Lawn-Swings.
Claims use since Oct. 21, 1919.

Ser. No. 125,884. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAY-JUERGENS CO., Cincinnati, Ohio. Filed Dec. 12, 1919.

ZEM-ZEM

Particular description of goods.—Non-Alcoholic, Non-Intoxicating, Maltless, Non-Cereal Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since Sept. 9, 1919.

Ser. No. 125,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAMMOND STANDISH & CO., Detroit, Mich. Filed Dec. 12, 1919.

GREENFIELD BRAND

No claim is made to the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Breakfast-Sausages.
Claims use since 1880.

Ser. No. 126,607. (CLASS 17. TOBACCO PRODUCTS.) WALKER-MATTESON COMPANY, Joliet, Ill. Filed Dec. 29, 1919.

Armory

Particular description of goods.—Cigars.
Claims use since Jan. 1, 1912.

Ser. No. 127,624. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 26, 1920.

Ambassador

Particular description of goods.—Candy.
Claims use since November, 1913.

Ser. No. 127,703. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STUART PRODUCTS CORPORATION, Chicago, Ill. Filed Jan. 28, 1920.



The picture or illustration is fanciful. The lines in the drawing are intended to indicate shading and have no reference to color.
Particular description of goods.—Electric Batteries.
Claims use since on or about the 1st day of November, 1918.

Ser. No. 128,774. (CLASS 36. MUSICAL INSTRUMENTS, AND SUPPLIES.) FILMUSIC COMPANY, Los Angeles, Calif. Filed Feb. 24, 1920.

POP ROLL

Particular description of goods.—Perforated Music Rolls or Sheets for Use With Mechanical Player Instruments.
Claims use since December, 1918.

Ser. No. 129,504. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE L. E. PALMER CO., Middletown, Conn. Filed Mar. 10, 1920.



Particular description of goods.—Couch-Hammocks.
Claims use since Jan. 1, 1915.

Ser. No. 129,753. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MRS. FLORENCE STEWART, Glencoe, Ill. Filed Mar. 15, 1920.

Madame Florence

No claim is made to the representation of a spoon apart from the mark shown in the drawing.
Particular description of goods.—Silver-Polish.
Claims use since July 3, 1919.

Ser. No. 129,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. ALBERTA BATTS, Detroit, Mich. Filed Mar. 16, 1920.

ORELIO NO. 1

Particular description of goods.—A Hair-Tonic and a Preparation to Straighten and Give Life to Obstinate Hair.
Claims use since June 1, 1915.

Ser. No. 129,842. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MAX L. GOLDBERT, New York, N. Y. Filed Mar. 17, 1920.

La Belle

Particular description of goods.—Sound Recording or Reproducing Machines, Phonographs, Talking-Machines, Parts Thereof, Sound-Records, Sound-Boxes, and Needles for Talking-Machines and Phonographs.
Claims use since about Nov. 1, 1919.

Ser. No. 130,583. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JERRY FAPPIANO, Waterbury, Conn. Filed Apr. 3, 1920.

A SUPERB PRODUCT FOR LADIES CHILDREN MEN'S SHOES. Fappiano's SHOE POLISH MADE BY J. FAPPIANO FOR ALL LEATHER DRESSING PURPOSES.

Consists of the circle-inclosed surname "Fappiano's" in applicant's own handwriting, no claim being made by this applicant to any of the remaining matter appearing in worded form on the drawing forming a part hereof.
Particular description of goods.—A Composition of Variant Consistency for Dressing, Polishing, and Cleaning Footwear, Leather, and Leather Products.
Claims use since Dec. 1, 1920.

Ser. No. 130,790. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Apr. 8, 1920.

ONDOYANT

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China-Grass.
Claims use since Mar. 9, 1906.

Ser. No. 131,125. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) R-O-N-E MFG. CO., Norwich, Conn. Filed Apr. 14, 1920.

AroKar

Particular description of goods.—Children's Toy Cars.
Claims use since Dec. 15, 1919.

Ser. No. 131,263. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CESAR GHIGLINO, New York, N. Y. Filed Apr. 17, 1920.



The exclusive right to the use of the word "Products" apart from the mark shown on the drawing is hereby disclaimed.
Particular description of goods.—Concentrated Fruit-Syrup Base; Soft Drinks, Non-Alcoholic, and Wintergreen Flavoring Extract.
Claims use since June 1, 1918.

Ser. No. 131,869. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Apr. 30, 1920.

TUSSATYNE

Consisting of the word "Tussatyne."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods.
Claims use since Nov. 17, 1919.

Ser. No. 131,870. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Apr. 30, 1920.

Kordovan

Consisting of the word "Kordovan."
Particular description of goods.—Silk, Woolen, Linen, and Cotton Piece Goods.
Claims use since Nov. 1, 1918.

Ser. No. 132,206. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOUTH PORTO RICO SUGAR COMPANY, New York, N. Y. Filed May 8, 1920.



Particular description of goods.—Sugar.
Claims use since Jan. 28, 1920.

Ser. No. 132,516. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DUSCO CO., Buffalo, N. Y. Filed May 17, 1920.



The right to the words "Brand" and "Castoria" except in connection with the mark shown is disclaimed.
Particular description of goods.—Medicine for Constipation, Fever, Restlessness, Sleeplessness, Diarrhea, Vomiting, and other Similar Ailments.
Claims use since May 12, 1920.

Ser. No. 132,641. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) IMPERIAL BRUSH COMPANY, INC., New York, N. Y. Filed May 19, 1920.

KLEANBRITE

Particular description of goods.—Toothbrushes and Nail-Brushes.
Claims use since Jan. 5, 1920.

Ser. No. 132,755. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BRYAN D. PINKNEY, Newport, Ky. Filed May 21, 1920.

aCMe

Particular description of goods.—An Aluminum-Alloy Plate Which Automatically Cleans Gold, Gold-Plated, Silver, Silver-Plated Articles, Called an Automatic Detergent. It is so called because when placed in a saturated solution of hot water and sal-soda there is a chemical reaction set up in the solution in the form of minute bubbles that automatically removes all traces of tarnish from the above-specified articles immersed in the solution.
Claims use since Feb. 28, 1920.

Ser. No. 134,041. (CLASS 12. CONSTRUCTION MATERIALS.) SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J. Filed June 22, 1920.

SMOOTH-ON

Particular description of goods.—Substances Consisting Chiefly of Comminuted Iron in Powder and Plastic Form Used as a Cement in Pipe-Joints and for Stopping Leaks in Steam, Hydraulic, and other Fluid Conductors and Containers.
Claims use since 1894.

Ser. No. 134,150. (CLASS 2. RECEPTACLES.) GEORGE V. STEFFENS PAPER BOX CO., St. Louis, Mo. Filed June 24, 1920.

STEFFEN'S BETTER BOXES T. LOUIS

Particular description of goods.—Paper Boxes, Razor-Cases, Shear-Cases, and Cutlery-Display Boxes.
Claims use since September, 1919.

Ser. No. 134,337. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) VIRGINIA TRUNK AND BAG CO., Petersburg, Va. Filed June 28, 1920.

DREAD-NAUGHT

Particular description of goods.—Trunks and Traveling-Bags.
Claims use since Apr. 30, 1920.

Ser. No. 134,781. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) OSCAR KROEHLE, Cleveland, Ohio. Filed July 10, 1920.

PROTEX

Particular description of goods.—Electrically-Lighted Signals and Parts Thereof, and More Especially Electric Signal-Lamps, Electric Switches or Circuit-Closing Devices, Sockets for Incandescent Electric Lamps, and Automobile Signaling Equipment Comprising a Normally Open Electric Circuit, Including an Electric-Light Bulb of an Electric Signal-Lamp which Comprises a Light-Transmitting Signal-Lens Adapted to be Illuminated by Said Light-Bulb Upon the Closing of Said Circuit.
Claims use since Nov. 1, 1918.

Ser. No. 135,280½. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMBASSADOR HOTEL CORPORATION, New York, N. Y. Filed July 22, 1920.



The descriptive word "Candy" appearing on the drawing heretofore submitted is disclaimed apart from other features of the mark.
Particular description of goods.—Candy.
Claims use since July 1, 1920.

Ser. No. 135,637. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ORANGE M. DRAKE, Salt Lake City, Utah. Filed July 31, 1920.

SOLAST

Particular description of goods.—Polishing Materials.
Claims use since May 1, 1920.

Ser. No. 135,773. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WEIGHTMAN CHEMICAL COMPANY, Greensburg, Pa. Filed Aug. 3, 1920.



No exclusive right is claimed to the word "Remedies" apart from the mark as shown.
Particular description of goods.—A Liniment for Use in the Treatment of Rheumatism, Neuralgia, Pleurisy, Sore Throat, Quinsy, Tonsillitis, Pneumonia, Sprains, Bruises, and Stiff Joints and Muscles in Human Beings and in the Treatment of Spavin or Splints, Contracted Muscles, Cockal-Joints, Sweeny, Fistula, Sprains, Cuts, Sore Shoulders, Puffs, Quinsy, and Sore Throat in Live Stock and a Salve for Use in the Treatment of Coughs, Colds in Chest, Pneumonia, Asthma, Bronchitis, Croup, Cuts, Bruises, Sores, Eczema, Chilblains, Boils, and Piles in Human Beings and in the Treatment of Sore Shoulders, Collar-Boils, Scratches, Galls, Sore Neck, and Wire-Cuts in Live Stock.
Claims use since January, 1914.

Ser. No. 135,948. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHOOT CHOCOLATE COMPANY, Cleveland, Ohio. Filed Aug. 9, 1920.

RUFFEND

Particular description of goods.—Chocolates.
Claims use since Apr. 28, 1920.

Ser. No. 136,230. (CLASS 17. TOBACCO PRODUCTS.) COMMONWEALTH CIGAR CO., St. Louis, Mo. Filed Aug. 18, 1920.

TRIPLE C.C.C.

Particular description of goods.—Cigars.
Claims use since May 24, 1920.

Ser. No. 136,678. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY A. GARDNER, Washington, D. C. Filed Aug. 31, 1920.

GARDOL

Particular description of goods.—Dechlorinated Oils, with or without Resin Additions.
Claims use since Aug. 19, 1920.

Ser. No. 136,934. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHATHAM BOTTLING COMPANY, Savannah, Ga. Filed Sept. 8, 1920.

TRY-ME

Particular description of goods.—Non-Alcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Dec. 1, 1918.

Ser. No. 137,244. (CLASS 39. CLOTHING.) ISIDORE SALMONSON, Los Angeles, Calif. Filed Sept. 15, 1920.

STAG

Particular description of goods.—Puttees of Leather and Canvas.
Claims use since June 1, 1920.

Ser. No. 137,256. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE E. C. MANUFACTURING COMPANY, Elkhart, Ind. Filed Sept. 16, 1920.

ALL FYRE

Particular description of goods.—Spark-Plugs for Ignition Systems for Internal-Combustion Engines.
Claims use since Sept. 2, 1920.

Ser. No. 137,419. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KNIGHT ENGINEERING & SALES CO., Los Angeles, Calif. Filed Sept. 21, 1920.

ONE-HAND-Y

Particular description of goods.—Electric Hand-Drills.
Claims use since on or about Aug. 25, 1920.

Ser. No. 137,710. (CLASS 37. PAPER AND STATIONERY.) THE PEERLESS PAPER COMPANY, Dayton, Ohio. Filed Sept. 28, 1920.

AERO

Particular description of goods.—Ledger-Paper.
Claims use since March, 1918.

Ser. No. 137,805. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA R. COOK, St. Louis, Mo. Filed Oct. 1, 1920.

ROSLYND

Particular description of goods.—Cold-Cream, Vanishing Cream, Rouge, and Foot-Relief in Form of a Massage-Cream.
Claims use since November, 1912.

Ser. No. 137,867. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE VOLTAX COMPANY, Bridgeport, Conn. Filed Oct. 2, 1920.

"MILL-WHITEST"

Particular description of goods.—Ready-Mixed Paints and Paint Enamels.
Claims use since on or about Jan. 8, 1920.

Ser. No. 137,868. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE VOLTAX COMPANY, Bridgeport, Conn. Filed Oct. 2, 1920.

"FLAT WHITEST"

Particular description of goods.—Ready-Mixed Paints and Paint Enamels.
Claims use since on or about Jan. 8, 1920.

Ser. No. 137,896. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SCHIBI SPRING BREWING CO., St. Charles, Mo. Filed Oct. 4, 1920.

CONTENTS 10 FLUID OZ.
SERVE SAYSO COLD
ROOT BEER
Invigorating Refreshing
MADE BY
SAYSO BEVERAGES
ST. CHARLES, MO.

All words shown on the drawing except "Sayso" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Root-Beer.
Claims use since Nov. 1, 1919.

Ser. No. 137,899. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WRIGHT & WRIGHT, INC., Boston, Mass. Filed Oct. 4, 1920.

ALLWEATHER

Particular description of goods.—Leather Grips for Golf-Sticks, Tennis-Racket Handles, and Squash-Racket Handles.
Claims use since Mar. 1, 1920.

Ser. No. 137,962. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REMIEN & KUHNERT CO., Chicago, Ill. Filed Oct. 5, 1920.

FLOOROLEUM

Particular description of goods.—Floor-Varnish.
Claims use since May 1, 1907.

Ser. No. 137,993. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) W. H. BAGSHAW CO., Lowell, Mass. Filed Oct. 6, 1920.

TRIO-TONE

Particular description of goods.—Phonographic Needles.
Claims use since June 23, 1920.

Ser. No. 138,042. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRADLEY & VROOMAN COMPANY, Chicago, Ill. Filed Oct. 7, 1920.

Permalac

Particular description of goods.—Ready-Mixed Paints, Varnishes, Stains, and Enamel Paints.
Claims use since Jan. 1, 1906.

Ser. No. 138,116. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) YE OLDEN TIMES CO., New York, N. Y. Filed Oct. 8, 1920.

REFERENDUM

Particular description of goods.—Malt Extracts.
Claims use since September, 1919.

Ser. No. 138,120. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BEAVER VARNISH CO., INC., Buffalo, N. Y. Filed Oct. 9, 1920.

BEAVER

Particular description of goods.—Mixed Paints in Oil, Enamels, Varnishes, Waterproof Coatings, Japans, Stains, Lacquers, Fillers, and Colors in Oil.
Claims use since June 1, 1917.

Ser. No. 138,136. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) F. O. PIERCE COMPANY, New York, N. Y. Filed Oct. 9, 1920.

EMALINE

Particular description of goods.—Bituminous Rubber Paint.
Claims use since Aug. 14, 1920.

Ser. No. 138,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MOTHER'S REMEDIES COMPANY, Chicago, Ill. Filed Oct. 11, 1920.

MOTHER'S SALVE
MOTHER'S REMEDY

No claim is made to the exclusive use of the words "Salve" and "Remedy" appearing on the drawing. The picture appearing on the drawing is fanciful.
Particular description of goods.—Certain Ointment for External Application in the Treatment of Inflammation and Congestion of Parts of the Human Body.
Claims use since 1893.

Ser. No. 138,267. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE SANGTOY COMPANY, Grand Rapids, Mich. Filed Oct. 13, 1920.

SANGTOY

Particular description of goods.—Musical Stringed Instruments Played by a Bow.
Claims use since Apr. 1, 1920.

Ser. No. 138,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. J. CHRISTOPHER CO., Los Angeles, Calif. Filed Oct. 14, 1920.

The Ambassador

Particular description of goods.—Candies and Chocolates.
Claims use since Sept. 1, 1920.

Ser. No. 138,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEYER BROTHERS DRUG COMPANY, St. Louis, Mo. Filed Oct. 14, 1920.

MEYER

In the drawing the diamond-shape design comprising a part of the mark is lined for red, indicating a red coloration in a display thereof. No claim is made to the words "St. Louis" apart from the mark shown by the drawing.
Particular description of goods.—Merchandise of the Following Particular Description: Alteratives, Analgesics, Anaphrodisiacs, Anesthetics, Anodynes, Antacids, Anthelmintics, Antichlorotics, Antimetics, Antiepileptics, Antigalactagogues, Antigonorrheics, Antihidrotics, Antilithics, Antineuralgics, Antiparasitics, Antiperiodics, Antiphlogistics, Antipyretics, Antirheumatics, Antisialagogues, Antispasmodics, Antizymotics, Aperients, Aphrodisiacs, Astringents, Cardiac Sedatives, Cardiac Stimulants, Carminatives, Cathartics, Cerebral Depressants and Stimulants, Cholagogues, Constructives, Counter-Irritants, Demulcents, Deodorants, Deoxidizers, Depilatories, Depressants, Diaphoretics, Digestives, Discutients, Disinfectants, Diuretics, Ecbolics, Emetics, Emmenagogues, Errhines, Escharotics, Expectorants, Galactagogues, Gastric Tonics, Hemostatics, Hypnotics, Irritants, Laxatives, Motor-Depressants, Motor-Excitants, Mydriatics, Myotics, Narcotics, Nervines, Nutrients for Medicinal Purposes, Oxytocics, Ptyalagogues, Purgatives, Pustulants; Refrigerants, (Medicinal;) Resolvents, Respiratory Depressants, Respiratory Stimulants, Restoratives, Rubefacients, Sedatives, Sialagogues, Soporifics, Sternutatories; Stimulants, (Cardiac, Cerebral, Hepatic;) Stomachics, Styptics, Sudorifics, Tæniafuges, General Tonics, Vasoconstrictors, Vasodilators, Vascular Sedatives, Vermicides, Vesicants; Chemicals and Drugs—Namely, the Following: Acacia, Acetanilid, Acetone, Acetphenetidin: Acids—Namely, Acetic, Acetic Anhydrid, Glacial Acetic, Acetylsalicylic, Arsenious, Arsenic Trioxid, Benzoic, Boric, Carbolic, Chromic, Citric, Gallic, Hydriodic, Hydrobromic, Hydrochloric, Hydrofluoric, Hypophosphorous, Lactic, Molybdic, Nitric, Nitrohydrochloric, Oleic, Oxalic, Phosphoric, Glacial Phosphoric, Phosphotungstic, Pyrogallic, Salicylic, Stearic, Sulfuric; Sulfuric, Aromatic; Sulfurous, Tannic, Tartaric, Trichloracetic; Aconite, Aconitin Crystals; Alcohol, De-

hydrated; Alcohol, Methyl; Allspice (Pimenta) for Medicinal Purposes, Aloes, Aloin, Althæa, Aluminum Compounds—Namely, the Following: Alum; Ammonium: Alum, Exsiccated; Alum, Chrome; Alum, Ferric; Aluminum Acetate, Aluminum Nitrate, Aluminum Sulfate; Ammonia and Ammonium Compounds—Namely, Ammonia-Water; Ammonium Benzoate, Bromid, Carbonate, Chlorid, Chromate, Citrate, Hypophosphite, Iodid, Molybdate, Nitrate, Oxalate, Persulfate, Phosphate, Salicylate, Sulfate, Sulfocyanate, Tartrate, Valerate; Amyl Acetate, Amyl Nitrite, Amylopsin, Anise; Antidote, Arsenic; Antimony and Potassium Tartrate, Antiphrin, Aqua Ammoniæ, Arnica-Flowers and Arnica-Root, Aromatized Castor-Oil, Arsenic Iodid, Aspirin, Atropin, Atropin Sulfate, Baking-Powder, Balsam Peru, Balsam Tolu; Barium Compounds—Namely, Barium Acetate, Carbonate, Chlorid, Dioxid, Hydroxid, Nitrate, Sulfate; Belladonna, Benzaldehyde, Benzoin; Benzol, (Benzene; Benzonaphthol, Beta-Naphthol, Beta-Naphthol Benzoate; Bismuth Compounds—Namely, Bismuth Milk; Bismuth Citrate, Nitrate, Oxid, Oxychlorid, Oxyiodid, Subcarbonate, Subgallate, Subnitrate, Subsalicylate: Bismuth and Ammonium Citrate; Bloodroot, Borax, Bromid Compound, Buchu, Burow's Solution, Cacao-Butter for Medicinal Purposes, Cadmium Iodid, Cadmium Nitrate, Cadmium and Potassium Iodid, Cadmium Sulfate, Caffein, Caffein Benzonate; Caffein, Citrated; Caffein Hydrobromid, Caffein and Sodium Benzonate, Caffein and Sodium Salicylate; Calcium Compounds—Namely, Calcium Acetate, Bromid, Carbonate, Chlorid, Glycerophosphate, Hypophosphite, Lactate, Lactophosphate, Oxid, Phenolsulfonate, Phosphate, Sulfid; Calendula, Calisaya-Bark, Calomel, Calumba, Camphor; Camphor, Monobromated; Cantharides, Capsicum, Carbon Disulfid, Carbon Tetrachlorid, Cardamom, Cardamom Compound, Cascara Sagrada, Caustic Potash, Caustic Soda, Cerium Oxalate; Chalk, Precipitated; Chamomile, Charcoal; Chloral, Camphorated; Chloral, Hydrated; Chloramin T, Chlorosane, Chlorinated Eucalyptol, Chloroform, Cinchona, Cinchona Compound; Cinchona, Red; Cinchonidin, Cinchonidin Salicylate, Cinchonidin Sulfate, Cinchonin, Cinchonin Sulfate, Cinnamon, Cassia, Cloves for Medicinal Purposes, Cobalt Chlorid, Cobalt Nitrate, Cocain and Cocain Salts, Cochineal, Codein and Codein Salts, Colchicin, Cold-Cream, Collodion, Confection Senna, Copper Acetate, Copper Sulfate, Corrosive Sublimate; Creosote, (Wood;) Creosote Carbonate, Cresol, Cubeb, Cudbear, Diacetylmorphin, Diastase from Malt, Diastase from Pancreas, Dichloramin T, Digitalin, Digitalis, Digitoxin, Epsom Salts, Ergot, Eriodictyon, Ether; Ether, Acetic; Ethyl Bromid, Ethyl Chlorid, Eucalyptol, Eucalyptus, Eugenol, Fennell, Cascara Compound, Ferruginous Tablets, Food Allergens, Foxglove, Gentian, Gentian Compounds, Ginger for Medicinal Purposes, Glycerin, Glycerites; Glycyrrhiza, (Licorice-Root;) Gold Chlorid, Gold and Sodium Chlorid, Guaiac Resin, Guaiacol Carbonate, Gum-Arabic, Gum-Benjamin, Halazone Tablets; Hellebore, American; Hemoglobin, Henbane, Hexamethyleneamin, Hydrastin, Hydrastin Hydrochlorid, Hydrogen Peroxid, Hyoscyamus, Hypodermic Tablets, Iodin, Iodoform, Ipecac; Iron and Iron Compounds—Namely, Iron, Reduced; Iron Albuminate, Arsenate, Cacodylate, Carbonate; Carbonate, Saccharated; Chlorid, Ferric; Ferrocyanid, Glycerophosphate, Hydroxid with Magnesium Oxid, Hypophosphite, Lactophosphate; Oxid, Red, Saccharated; Peptonate, Peptonate with Manganese, Phenolsulfate, Phosphate, Pyrophosphate, Subcarbonate, Subsulfate, Sulfate, Iron and Ammonium Citrate, Iron and Ammonium Sulfate, Iron and Ammonium Tartrate, Iron and Manganese Peptonate, Iron and Potassium Tartrate, Iron and Quinin Citrate; Iron, Quinin, and Strychnin Citrate; Iron and Strychnin Citrate, Jalap; Kaolin, Medicinal; Kaolin Poultice, Krameria, Lanolin; Lard, Benzoinated; Larkspur, Laudanum, Lavender Compound, Lead Acetate, Lead Carbonate, Lead Nitrate, Lead Oxid, Lead Peroxid, Leucocyte, Licorice, Lime for Medicinal Purposes; Lime, Chlorinated; Lime, Hydrated; Lime, Sulfureted; Liquid Petroleum for Medicinal Purposes, Used Both Internally and Externally; Lithia Tablets, Lithium Benzoate, Lithium Bromid, Lithium Carbonate, Lithium Citrate; Lithium Glycerophosphate, Lithium Salicylate, Lithium Tartrate, Litmus-Paper, Lobelia, Lupulin, Magma Bismuth, Magma Magnesia; Magnesium Compounds—Namely, Magnesia; Magnesium Carbonate, Chlorid, Citrate, Glycerophosphate, Hypophosphite, Phosphate, Salicylate, Sulfate; Magnesium and Ammonium Phosphate; Manganese Compounds—Namely, Manganese Chlorid, Citrate, Dioxid, Glycerophosphate, Hypophosphite, Oxid, Sulfate; Marigold, Matricaria, Menthol; Mercury and Mercury Compounds—Namely, Mercury; Mercury, Ammoniated; Mercury Bromid, Chlorid, Iodid, Oleate, Oxid, Salicylate, Subsulfate, Sulfid, Tannate; Mercury and Ammonium Chlorid, Mercury with Chalk, Methyl Acetate, Methyl Salicylate, Methylthionin, Milk of Bismuth, Milk of Magnesia, Morphin, Morphin Salts, Mustard for Medicinal Purposes, Myrrh, Nickel Nitrate, Nickel Sulfate, Nickel and Ammonium Sulfate, Spirit of Nitroglycerin, Nutmeg for Medicinal Purposes, Nux Vomica, Oil Betula, Oil Bitter Almond; Oil, Camphorated; Oil, Castor; Oil, Castor, Aromatized; Oil, Cod-Liver; Oil, Ethereal; Oil Peppermint for Medicinal Purposes, Oil Theobroma, Oleoresin Capsicum, Oleoresin Cubeb, Oleoresin Ginger, Oleoresin Male Fern, Ophthalmic Tablets, Opium, Opodeldoc, Orange-Peel for Medicinal Purposes, Ox-Gall, Pancreatin, Paprika for Medicinal Purposes, Paraldehyde, Paregoric, Pareira, Pepper for Medicinal Purposes; Pepsin, Saccharated; Peptone, Peptonizing-Powder, Peptonizing-Tubes; Petrolatum, Liquid; Phenazone, Phenolphthalein; Phenyl Salicylate, (Salol;) Phenylacetamid; Physostigmin, (Eserin;) Physostigmin Salicylate, Physostigmin Sulfate, Pilocarpin Hydrochlorid; Pilocarpus, (Jaborandi;) Pimenta, Podophyllin; Potassium Compounds—Namely, Potassa, Sulfureted; Potassium Acetate, Benzoate, Bicarbonate, Binoxalate, Bisulfate, Bitartrate, Bromate, Bromid, Carbonate, Chlorate, Chlorid, Chromate, Citrate, Dichromate, Ferricyanid, Ferrocyanid, Glycerophosphate, Hydroxid, Hypophosphite, Iodid, Nitrate, Oxalate, Permanganate, Persulfate, Phenolsulfonate, Phosphate, Sulfate, Sulfid, Sulfocarbolate, Sulfocyanate, Tartrate; Potassium and Sodium Tartrate; Protargentum, Pyrogallol, Quinin; Quinin Salts—Namely, Quinin Bisulfate, Dihydrochlorid, Glycerophosphate, Hydrobromid, Hydrochlorid, Hypophosphite, Phosphate, Salicylate, Sulfate, Tannate, Valerate; Quinin and Urea Hydrochlorid, Rennin, Resin Jalap, Resin Podophyllum, Resin Scammony, Resorcinol, Rhatany, Rhubarb for Medicinal Purposes and Applies to the Root Tincture for Fruit Extract and other Preparations of the Root, Rubefacine, Saccharin, Salol; Salt Carlsbad, Artificial; Salt, Kissingen, Artificial; Salt, Vichy, Artificial; Sanguinaria, Santonin, Scopolamin, Hydrobromid, Seidlitz-Powder, Senna; Silver, Colloidal; Silver Nitrate, Silver Protein; Sodium Compounds—Namely, Sodium Acetate, Acid Phosphate, Arsenate, Arsenite, Benzoate, Bicarbonate, Biphosphate, Bisulfate, Bisulfite, Bitartrate, Borate, Bromid, Cacodylate, Carbonate, Chlorate, Chlorid, Citrate, Cyanid, Glycerophosphate, Glycerocholate, Hydroxid, Hypophosphite, Iodid, Nitrate, Nitrite, Nitroprussid, Oxalate, Phenolsulfonate, Phosphate, Phosphate Compound, Pyrosphosphate, Salicylate, Sulfate, Sulfite, Tartrate, Thiosulfate; Sodium and Ammonium Phosphate, Solargentum, Spartein Sulfate, Squill; Strontium Compounds—Namely, Strontium Acetate, Arsenite, Bromid, Chlorid, Iodid, Lactate, Nitrate, Salicylate; Strophanthin, Strychnin Salts and Compounds, Sulfonethylmethane, Sulfonmethane, Sulfur, Suppositories, Suprarenals, Tartar Emetic, Terpin Hydrate, Theobromin, Theobromin and Sodium Salicylate, Thiosinamin, Thromboplastin, Thymol, Thymol Iodid; Thyroid Glands, Dried; Tin Chlorid, Stannous; Toluol, (Toluene;) Tragacanth, Trifolium Compound, Uranium Acetate and Nitrate, Urease, Valerian, Vanillin, Veratrum Viride, White-Pine Bark, White-Pine Compound, Wild Cherry, Yerba Santa; Zinc Compounds—Namely, Zinc Acetate, Bromid, Carbonate, Chlorid, Iodid, Oxid, Phenolsulfonate, Stearate, Sulfate, Sulfid, Valerate; Biological Products—Namely, the Following: Antitoxins, Serums, Bacterial Vaccins, Smallpox-Virus, Antirabic Vaccin, Leucocyte Extracts, Veterinary Products, Emetic, Ophthalmic Mallein, Mallein Solution, and Prepared in Any One or Another

of the Following Forms: Ampuls, Crude Drugs, Crystals, Elixirs, Extracts, Gases, Liquids, Lozenges, Mixtures, Ointments, Powders, Serums, Solids, Solutions, Spirits, Syrups, Tablets, Tinctures, Troches, and Vaccins.
Claims use since Jan. 2, 1919.

Ser. No. 138,295. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NOXAL POLISH MANUFACTURING COMPANY, Philadelphia, Pa. Filed Oct. 14, 1920.

NOXAL

NOXAL

Particular description of Goods.—Polish for Automobiles, Pianos, Victrolas, Furniture, and All Enameled and Varnished Surfaces.
Claims use since Feb. 18, 1920.

Ser. No. 138,458. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SANT CHEMICAL CO., Kansas City, Mo. Filed Oct. 18, 1920.

SANT

Particular description of goods.—A Powder Preparation for Cleaning Artificial Teeth.
Claims use since Aug. 1, 1920.

Ser. No. 138,750. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED H. BURT, Buffalo, N. Y. Filed Oct. 25, 1920.

PIPPIN

Particular description of goods.—Candy, Peanuts, and Popcorn.
Claims use since September, 1914.

Ser. No. 138,789. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS BIGG, LIMITED, London, England. Filed Oct. 25, 1920.

Thomas Bigg

The drawing shows a facsimile of the signature of Thomas Bigg.
Particular description of goods.—Chemicals Used in Preparations for the Destruction of Insect Life, Especially for External Application upon Animals, Fruit-Trees and other Trees, and Generally upon all other Forms of Insect Life Wherever They Abound.
Claims use since Oct. 1, 1912.

Ser. No. 138,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS BIGG, LIMITED, London, England. Filed Oct. 25, 1920.

No claim is made herein to the exclusive use of the words "Renowned Preparation" apart from the trade-mark shown.
Particular description of goods.—Chemicals Used in Preparations for the Destruction of Insect Life, Especially for External Application upon Animals, Fruit-Trees and other Trees, and Generally upon All other Forms of Insect Life Wherever They Abound.
Claims use since Oct. 1, 1919.

Ser. No. 138,854. (CLASS 15. OILS AND GREASES.) E. F. HOUGHTON & CO., Philadelphia, Pa. Filed Oct. 27, 1920.

VITSOL

Particular description of goods.—Metal-Cutting Oils.
Claims use since about Sept. 9, 1920.

Ser. No. 139,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GIBSON COMMERCIAL CO., Salt Lake City, Utah. Filed Nov. 1, 1920.

CUVANO

Particular description of goods.—Flavoring-Vanilla, a Fluid Extract Used to Flavor Food.
Claims use since Oct. 1, 1919.

Ser. No. 139,175. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALFRED H. SMITH COMPANY, New York, N. Y. Filed Nov. 4, 1920.

DIJER-KISS

The same being colored gold.
Particular description of goods.—Soaps.
Claims use since Nov. 1, 1903.

Ser. No. 139,321. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Nov. 6, 1920.

HI-PO-DISTAL

Particular description of goods.—Petroleum Products Used as a Fuel for Automobiles, Gas Motors, and Engines.
Claims use since Aug. 8, 1919.

Ser. No. 139,467. (CLASS 39. CLOTHING.) MORVAY & SON MANUFACTURING COMPANY, Bridgeton, N. J. Filed Nov. 10, 1920.



Particular description of goods.—Chemises, Camisoles, Bloomers, Nightgowns, Pantalettes, Ladies' Combination-Garments, and Underwear.
Claims use since June 1, 1920.

Ser. No. 139,527. (CLASS 27. HOROLOGICAL INSTRUMENTS.) B. GUTTER & SONS, New York, N. Y. Filed Nov. 11, 1920.

Entyme

Particular description of goods.—Watches, Watchcases, and Watch-Movements.
Claims use since Apr. 1, 1920.

Ser. No. 139,597. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. W. RYCROFT & Co., New York, N. Y. Filed Nov. 12, 1920.

TUSSAH CARINA

Particular description of goods.—All-Wool Dress Goods in the Piece.
Claims use since 1908.

Ser. No. 139,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTI-URIC COMPANY, San Francisco, Calif. Filed Nov. 16, 1920.



ANTI-URIC

No claim is made to the word "Anti-Uric" apart from the mark shown.
Particular description of goods.—Rheumatism Medicine.
Claims use since 1904.

Ser. No. 139,760. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM SALIKOF, Philadelphia, Pa. Filed Nov. 17, 1920.

SALKO

Particular description of goods.—Toilet Waters, Perfumes, Massage-Creams, and Shampoo Preparations.
Claims use since on or about May, 1919.

Ser. No. 139,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DONATO MADDALONI, Plainfield, N. J. Filed Nov. 18, 1920.



Particular description of goods.—General Tonic.
Claims use since about July 29, 1920.

Ser. No. 139,835½. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Nov. 18, 1920.

SYN-OLIVE

No claim being made to the word "Olive" apart from the mark shown.
Particular description of goods.—Preparation of an Oily Nature for Treating Textile Fabrics.
Claims use since Nov. 10, 1920.

Ser. No. 139,836½. (CLASS 15. OILS AND GREASES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Nov. 18, 1920.

FRAPOL

Particular description of goods.—Metal-Cutting Oils.
Claims use since Nov. 5, 1920.

Ser. No. 139,990. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROUNDY, PECKHAM & DEXTER CO., Milwaukee, Wis. Filed Nov. 22, 1920. Under ten-year proviso.

RED CROSS



The cross is printed in red.
Particular description of goods.—Tea and Coffee.
Claims use since about Jan. 1, 1893, on tea and since about Aug. 1, 1884, on coffee.

Ser. No. 140,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRUIT DISTRIBUTORS SERVICE CO., INC., Chicago, Ill. Filed Nov. 23, 1920.

BRAND 4

No exclusive claim being made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Cantaloups.
Claims use since Mar. 5, 1920.

Ser. No. 140,071. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANITOL CHEMICAL LABORATORY CO., St. Louis, Mo. Filed Nov. 23, 1920.

SANITOL

Particular description of goods.—Face-Powder, Talcum Powder, Rouge, Face-Cream, Face-Lotion, Tooth-Powder, Tooth-Paste, Liquid Antiseptic, Hair-Tonic, Hair-Shampoo, and Eye-Bath.
Claims use since 1905.

Ser. No. 140,083. (CLASS 39. CLOTHING.) HARRY E. ADAMS, Haverhill, Mass. Filed Nov. 24, 1920.

FEDERATION

Particular description of goods.—Leather Shoes.
Claims use since Nov. 15, 1920.

Ser. No. 140,176. (CLASS 39. CLOTHING.) HAMILTON-BROWN SHOE COMPANY, St. Louis, Mo. Filed Nov. 26, 1920.

Commodore

Particular description of goods.—Men's and Boys' Leather Shoes.
Claims use since Apr. 22, 1919.

Ser. No. 140,220. (CLASS 39. CLOTHING.) THE UNITED TURKEY RED COMPANY LIMITED, Glasgow, Scotland. Filed Nov. 26, 1920.

WOLSCOT

Particular description of goods.—Knitted, Wool, Silk, or Cotton, or Wool and Silk, or Cotton, or Silk and Cotton Outer Garments—viz., Coats, Dresses, Headwear, Skirts, Gloves, Hosiery, Children's Overalls, and Bedroom-Slippers; Also Garments Made of the Same Material—viz., Underwear for Men, Women, and Children; Work, Negligée, and Dress Shirts, and Blouses.
Claims use since Mar. 16, 1920.

Ser. No. 140,280. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

COTTON FIELD

Particular description of goods.—Piece Goods—Namely, Cotton Duck.
Claims use since Jan. 4, 1918.

Ser. No. 140,328. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEYERS & VANRIPER, Bloomfield, N. J. Filed Nov. 27, 1920.

O. K. KILLEM ON THE SPOT

Consisting of the letters and words "O. K. Killem on the Spot," no claim being made to the exclusive use of the words "Killem on the Spot."
Particular description of goods.—Insecticide.
Claims use since Oct. 16, 1920.

Ser. No. 140,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM F. KUHLBACH, Fort Wayne, Ind. Filed Nov. 27, 1920.

VICTORIA

The facsimile signature being that of the applicant.
Particular description of goods.—A General Tonic Made from Root, Herb, and Berry Extract.
Claims use since Mar. 13, 1919.

Ser. No. 140,432. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DUNLOP TIRE AND RUBBER CORPORATION OF AMERICA, Tonawanda, N. Y. Filed Nov. 30, 1920. Under ten-year proviso.

DUNLOP

Particular description of goods.—Rubber Tires and Parts Thereof—Namely, Tubes, Shoes, and Casings.
Claims use since 1893.

Ser. No. 140,533. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAFFIR CHEMICAL LABORATORIES, Omaha, Nebr. Filed Dec. 2, 1920.



Applicant disclaims all the wording occurring on the drawing, with the exception of the word "Dentlo."
Particular description of goods.—Tooth-Paste.
Claims use since May 15, 1920.

Ser. No. 140,583. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. B. BOND & Co., Newark, N. J. Filed Dec. 4, 1920

WILSON'S
Porto - Pepto - Beef

Particular description of goods.—General Tonic.
Claims use since September, 1920.

Ser. No. 140,732. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM J. KELLEHER, Toronto, Ontario, Canada. Filed Dec. 7, 1920.



The portrait forming part of the mark being that of Joseph MacKay. The right to the exclusive use of the carton-blank apart from other features of the mark is disclaimed.
Particular description of goods.—Butter-Scotch Candy.
Claims use since Apr. 19, 1920.

Ser. No. 140,767. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMBOY PRODUCTS CO., Chicago, Ill. Filed Dec. 8, 1920.

CEL-O-MINT

Particular description of goods.—Chewing-Gum.
Claims use since Jan. 2, 1919.

Ser. No. 140,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER HASSLINGER, Baltimore, Md. Filed Dec. 8, 1920.



The horizontal lines upon the representation of the ribbon are intended to represent the color blue. The diagonal lines upon the words "Hasslinger's Blue Ribbon Sea Food" are intended to represent the color green. The words "Sea Food" upon the drawing are disclaimed.
Particular description of goods.—Fresh Live and Steamed Hard Crabs, Fresh Live Soft Crabs, Fresh Crab-Meat, Fresh Crab Cakes, Fresh Deviled Crabs, Fresh Raw Clams, Fresh Raw and Steamed Shrimp, and Fresh Oysters, None of the Above Being Subjected to a Preserving Process.
Claims use since July 13, 1920.

Ser. No. 140,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISAAC J. EPSTEIN, San Francisco, Calif. Filed Dec. 9, 1920.

Epco

Particular description of goods.—Cold-Caps for the Treatment of Colds in the Head, La Grippe, Hay-Fever, Coryza, Influenza and Neuralgia Pains, and for the Treatment of All Forms of Coughs, Colds, Hoarseness, Bronchitis, and Loss of Voice; Cold-Cream; Cough-Balsam for Treatment of Coughs, Colds, and All Bronchial and Laryngeal Affections; Lax for the Treatment of Constipation and Biliousness; Liquid Antiheadache Remedy for Treatment of Headaches, Neuralgia, and Vertigo; Bandoline, and Prophylactic Tubes.
Claims use since Nov. 1, 1919.

Ser. No. 140,832. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Dec. 9, 1920. Under ten-year proviso.

SUPERIOR

Particular description of goods.—Soap.
Claims use since January, 1895.

Ser. No. 140,901. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARISSA LIZZIE RILEY, Canton, Miss. Filed Dec. 10, 1920.

Magna

Particular description of goods.—Hair-Tonic.
Claims use since July 1, 1920.

Ser. No. 140,905. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE WANDER COMPANY, Chicago, Ill. Filed Dec. 10, 1920.

PANOMALT

Particular description of goods.—Malt Extract.
Claims use since Mar. 1, 1920.

Ser. No. 141,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUCRETIA BENTLEY KERLIN, Chester, Pa. Filed Dec. 13, 1920.



The portrait shown in the drawing being that of the applicant.
Particular description of goods.—Bentley's Greaseless Cream, Strawberry Crême, Scalp-Pomade, Beauty-Powder, Almond-Meal, Face-Powder, Depilatory, Vegetable Cream, Hair-Tonic, Dry Shampoo, Bust-Developer, Toilet Water, Eyebrow-Grower, Sweet-Violet Extract, Pimple-Ointment.
Claims use since 1897.

Ser. No. 141,030. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Dec. 13, 1920.

DIAMOND C.

Particular description of goods.—Lubricating-Oils.
Claims use since Jan. 25, 1917.

Ser. No. 141,032. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Dec. 13, 1920.

ONYX

Particular description of goods.—Lubricating Oils and Greases.
Claims use since May 1, 1919.

Ser. No. 141,033. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Dec. 13, 1920.

SPIN-KNIT

Particular description of goods.—Lubricating-Oil.
Claims use since May 1, 1919.

Ser. No. 141,034. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Dec. 13, 1920.

SUPERFLAME

Particular description of goods.—Kerosene.
Claims use since Nov. 1, 1919.

Ser. No. 141,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JUSTO J. RODRIGUEZ, Scranton, Pa. Filed Dec. 16, 1920.

Société

Particular description of goods.—Face-Powders, Face-Creams, Face-Powder Compacts, and Perfumes.
Claims use since Aug. 18, 1920.

Ser. No. 141,190. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RESTICIDE COMPANY, Cleveland, Ohio. Filed Dec. 16, 1920.

RUST-I-CIDE

Particular description of goods.—A Chemical Preparation for Removing Rust.
Claims use since Oct. 8, 1920.

Ser. No. 141,203. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass. Filed Dec. 17, 1920.



Applicant disclaims the word "Brand" and the expression "Portland, Me., & Boston, Mass."

Particular description of goods.—Cream Tartar, Baking-Soda, Sulfur, and Epsom Salts.

Claims use since 1883.

Ser. No. 141,219. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. K. G. ELLIS, Beaumont, Tex. Filed Dec. 17, 1920.

S. K. Gardner.

The name appearing therein being a facsimile of the signature of the applicant.

Particular description of goods.—A Medicine for the Treatment of the Kidneys and Bladder.

Claims use since Aug. 1, 1920.

Ser. No. 141,223. (CLASS 15. OILS AND GREASES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Dec. 17, 1920.

COSMOLUBRIC

Particular description of goods.—Lubricating-Oils.

Claims use since 1870.

Ser. No. 141,224. (CLASS 15. OILS AND GREASES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Dec. 17, 1920.

HYDROLUBRIC

Particular description of goods.—Lubricating-Oils for Hydraulic Systems.

Claims use since about 1905.

Ser. No. 141,225. (CLASS 15. OILS AND GREASES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Dec. 17, 1920.

HOUGHTOLARD

Particular description of goods.—Metal-Cutting Oils.

Claims use since about 1906.

Ser. No. 141,244. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DAVID C. SMITH, Schenectady, N. Y. Filed Dec. 17, 1920.

RADOLENE

Particular description of goods.—A Paint Withstanding High Temperature.

Claims use since September, 1920.

Ser. No. 141,269. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDUSTRIAL COTTON OIL PROPERTIES, Boston, Mass. Filed Dec. 18, 1920.

LONGHORN

Particular description of goods.—Cotton-Seed Meal.

Claims use since Mar. 17, 1920.

Ser. No. 141,270. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARL KENT, Tacoma, Wash. Filed Dec. 18, 1920.

SWEET BRIAR

Consisting of the words "Sweet Briar."

Particular description of goods.—Butter.

Claims use since Oct. 23, 1920.

Ser. No. 141,312. (CLASS 12. CONSTRUCTION MATERIALS.) HASSAM PAVING COMPANY, Worcester, Mass. Filed Dec. 20, 1920.



Particular description of goods.—Street-Pavements and Bituminous Paving Materials.

Claims use since about Oct. 1, 1920.

Ser. No. 141,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHEPHERD DRAIN, M. D., Baltimore, Md. Filed Dec. 20, 1920.

Sen Pru
CUT PLUG

Particular description of goods.—A Remedy for Constipation.

Claims use since June 1, 1920.

Ser. No. 141,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITEN BISCUIT CO., Clinton, Iowa. Filed Dec. 21, 1920.

AVALON

Particular description of goods.—Cakes.

Claims use since Dec. 6, 1920.

Ser. No. 141,401. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SILVEY AND GOLLIDAY, Eldon, Mo. Filed Dec. 21, 1920.

RESTORO

Particular description of goods.—A Rug-Cleaner.

Claims use since September, 1920.

Ser. No. 141,539. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES EZERSKIS, Chicago, Ill. Filed Dec. 27, 1920.



The portrait shown is that of the applicant.

Particular description of goods.—A Medicine Used in the Treatment of Rheumatism.

Claims use since Nov. 22, 1920.

Ser. No. 141,552. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHEMICAL WORKS FLORA, Dubendorf, Switzerland. Filed Dec. 28, 1920.



The word "Produits" is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Essences, Fruit-Oils, and Syrup for Beverages of Less Than One-Half of One Per Cent. Alcohol, by Volume, and Aerated Water and Wines, Non-Alcoholic.

Claims use since July 19, 1919.

Ser. No. 141,575. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Dec. 28, 1920.

CRACKERLAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.

Claims use since Oct. 28, 1920.

Ser. No. 141,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Dec. 28, 1920.

HONEYLAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.

Claims use since Oct. 28, 1920.

Ser. No. 141,578. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Dec. 28, 1920.

COOKIELAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.

Claims use since Oct. 28, 1920.

Ser. No. 141,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Dec. 28, 1920.

PEANUTLAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.

Claims use since Oct. 28, 1920.

Ser. No. 141,582. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Dec. 28, 1920.

LEMONLAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.

Claims use since Oct. 28, 1920.

Ser. No. 141,584. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Dec. 28, 1920.

WAFERLAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.

Claims use since Oct. 28, 1920.

Ser. No. 141,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY. Cambridge, Mass. Filed Dec. 28, 1920.

BISCUITLAND

Particular description of goods.—Cookies, Crackers, Cakes, and Biscuits.
Claims use since Oct. 28, 1920.

Ser. No. 141,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. OIL & SUPPLY CO., Providence, R. I. Filed Dec. 28, 1920.

PERFECTOL

Particular description of goods.—Fulling and Scouring Oil.
Claims use since January, 1920.

Ser. No. 141,618. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WADSWORTH-HOWLAND COMPANY, Chicago, Ill. Filed Dec. 28, 1920.

JEWEL

Particular description of goods.—Nickel-Polish.
Claims use since Mar. 1, 1910.

Ser. No. 141,619. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH-HOWLAND COMPANY, Chicago, Ill. Filed Dec. 28, 1920.

STANDBY

Particular description of goods.—Barn-Paint.
Claims use since July 1, 1908.

Ser. No. 141,620. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH-HOWLAND COMPANY, Chicago, Ill. Filed Dec. 28, 1920.

CONQUEROR

Particular description of goods.—Mixed Paint, Varnish, Enamel for Decorative Purposes, and Liquid Wood-Filler.
Claims use since Nov. 15, 1897.

Ser. No. 141,641. (CLASS 39. CLOTHING.) MAY KNITTING CO., INC., New York, N. Y. Filed Dec. 29, 1920.

Mayknit

Particular description of goods.—Outer Clothing for Men, Women, and Children—Namely, Sweaters and Bathing-Suits for Men, Women, and Children and Dresses and Skirts for Women and Children.
Claims use since on or about Dec. 4, 1920.

Ser. No. 141,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS-BODY COMPANY, San Francisco, Calif. Filed Dec. 30, 1920.

WILD BROOK



Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 15, 1920.

Ser. No. 141,708. (CLASS 37. PAPER AND STATIONERY.) THE WHITAKER PAPER COMPANY, Baltimore, Md. Filed Dec. 30, 1920.

LION

Particular description of goods.—Wrapping-Paper.
Claims use since August, 1906.

Ser. No. 141,715. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BINNEY & SMITH COMPANY, New York, N. Y. Filed Dec. 31, 1920.

BINNEY & SMITH CO.
BLACKS OF SUPERIORITY

Particular description of goods.—Paint-Pigments—Namely, Carbon-Black, Gas-Black, Bone-Black, Drop-Black, Ivory-Black, and Oxid-Black.
Claims use since July, 1919.

Ser. No. 141,716. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICHOLAS H. BROWN, La Fargeville, N. Y. Filed Dec. 31, 1920.



Particular description of goods.—Insecticide.
Claims use since Dec. 21, 1920.

Ser. No. 141,781. (CLASS 39. CLOTHING.) HARRIS, RICHMAN & GOLDSTEIN, New York, N. Y. Filed Jan. 3, 1921.

TIP HG TOP

Particular description of goods.—Men's Suits and Overcoats.
Claims use since Nov. 1, 1920.

Ser. No. 141,908. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM J. KELLEHER, Toronto, Ontario, Canada. Filed Jan. 6, 1921.



The portrait forming part of the mark being fanciful. The right to the exclusive use of the outline of a carton-blank apart from the other features of the mark and the word "Sugar" is disclaimed.
Particular description of goods.—English Toffee.
Claims use since about Aug. 24, 1920.

Ser. No. 141,931. (CLASS 39. CLOTHING.) WESTERN TEXTILE CO., Chicago, Ill. Filed Jan. 6, 1921.

VENTILATO

Particular description of goods.—Raincoats and Men's Overcoats and Suits.
Claims use since Sept. 15, 1918.

Ser. No. 141,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. CESSNA, Chicago, Ill. Filed Jan. 8, 1921.

Uga-Sol

Particular description of goods.—Laxative Pills.
Claims use since on or about Jan. 1, 1919.

Ser. No. 142,091. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed Jan. 11, 1921.

STERLING

Applicant disclaims the exclusive use of the word "Sterling" except in association with the mark as shown.
Particular description of goods.—Poultry and Dairy Feed.
Claims use since January, 1905.

Ser. No. 142,123. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESTATE OF H. P. BALDWIN, deceased, Lahaina, Hawaii, by Henry Alexander Baldwin, Lahaina, Hawaii, trustee. Filed Jan. 12, 1921.

TERRITORY

Particular description of goods.—Canned Fruits
Claims use since June 10, 1914.

Ser. No. 142,124. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESTATE OF H. P. BALDWIN, deceased, Lahaina, Hawaii, by Henry Alexander Baldwin, Lahaina, Hawaii, trustee. Filed Jan. 12, 1921.

TRADE WIND

Particular description of goods.—Canned Fruits.
Claims use since Dec. 20, 1920.

Ser. No. 142,146. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM E. GREENE, New York, N. Y. Filed Jan. 12, 1921.

WILLS

Particular description of goods.—Paints.
Claims use since about April, 1920.

Ser. No. 142,156. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MAZOMUL COMPANY, Scranton, Pa. Filed Jan. 12, 1921.

MAZOMUL

Particular description of goods.—Medicinal Food Tonic.
Claims use since Sept. 1, 1917.

Ser. No. 142,161. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIVE SON ORCHARDS CO., Lindsay, Calif. Filed Jan. 12, 1921.

Wonderful

Particular description of goods.—Fresh and Preserved Pomegranates.
Claims use since Oct. 22, 1917.

Ser. No. 142,163. (CLASS 39. CLOTHING.) SOLOMON PERLMUTTER, New York, N. Y. Filed Jan. 12, 1921.

PEARL

Particular description of goods.—Collars.
Claims use since Dec. 1, 1920.

Ser. No. 142,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX SCHUCKL, San Francisco, Calif. Filed Jan. 12, 1921.

GILLION BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits and Canned Salmon.
Claims use since Jan. 21, 1917, for canned salmon and since Jan. 23, 1920, on canned fruits and canned vegetables.

Ser. No. 142,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH AND HARRISON, Washington, D. C. Filed Jan. 12, 1921.

CLIFFORDS "CHEX"

Particular description of goods.—Cough-Syrup.
Claims use since February, 1920.

Ser. No. 142,174. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. SEVERA CO., Cedar Rapids, Iowa. Filed Jan. 12, 1921.

BLODAL

Particular description of goods.—Medicine for the Blood.
Claims use since Oct. 1, 1920.

Ser. No. 142,175. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. SEVERA CO., Cedar Rapids, Iowa. Filed Jan. 12, 1921.

ARTON

Particular description of goods.—A Heart Stimulant.
Claims use since Oct. 1, 1920.

Ser. No. 142,176. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. SEVERA CO., Cedar Rapids, Iowa. Filed Jan. 12, 1921.

Balzol

Particular description of goods.—Medicine for Indigestion and Similar Complaints.
Claims use since Oct. 1, 1920.

Ser. No. 142,177. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. SEVERA CO., Cedar Rapids, Iowa. Filed Jan. 12, 1921.

LEDSYL

Particular description of goods.—Medicine for Kidneys and Bladder.
Claims use since Oct. 1, 1920.

Ser. No. 142,179. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. SEVERA CO., Cedar Rapids, Iowa. Filed Jan. 12, 1921.

Esko

Particular description of goods.—Antiseptic Ointment.
Claims use since Oct. 1, 1920.

Ser. No. 142,210. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE FAIRBANKS CO., New York, N. Y. Filed Jan. 13, 1921.

FAIRBANKS O.K.

Consisting of the word "Fairbanks" in white upon an octagonal blue ground, underscored by a white line, and the letters "O. K." upon a white octagonal panel outlined in blue and located in the blue octagonal panel behind the word "Fairbanks."
Particular description of goods.—Unloading-Trucks and Commercial Trucks and Car-Bodies.
Claims use since July 10, 1919.

Ser. No. 142,233. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Jan. 13, 1921.

IOPHEN

Particular description of goods.—A Preparation for the Treatment of Ulceration or Laceration of the Cervix, Leucorrhea, Gonorrhea, and All Chronic Inflammatory Infections of the Mucous Membrane or Adjacent Tissue.
Claims use since Nov. 1, 1920.

Ser. No. 142,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES F. KARNES, Tulsa, Okla. Filed Jan. 14, 1921.

X-CELL-ALL

Particular description of goods.—A Salve for Treatment of Piles, Blood-Poison, Flesh-Cuts, and Old Sores.
Claims use since Dec. 1, 1920.

Ser. No. 142,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. KOHNSTAMM & CO., New York, N. Y. Filed Jan. 14, 1921. Under ten-year proviso.

'CARMINROSA

Particular description of goods.—Coal-Tar Colors.
Claims use since July 20, 1890.

Ser. No. 142,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. KOHNSTAMM & CO., New York, N. Y. Filed Jan. 14, 1921. Under ten-year proviso.

PHLOXALINE

Particular description of goods.—Coal-Tar Dyes.
Claims use since June 23, 1884.

Ser. No. 142,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STATES ALKALI EXPORT ASSOCIATION, INC., New York, N. Y. Filed Jan. 14, 1921.



Particular description of goods.—Caustic Soda and Soda-Ash.
Claims use since Nov. 12, 1920.

Ser. No. 142,322. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) VAL BLATZ BREWING COMPANY, Milwaukee, Wis. Filed Jan. 17, 1921. Under ten-year proviso.

Private Stock

Particular description of goods.—Non-Alcoholic Near Beer, Beer and Near Beer Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Beer and Near Beer Containing One-Half of One Per Cent. or More of Alcohol, by Volume, Malt Tonic, Malt-Syrup, and Malt Extract.
Claims use since Feb. 17, 1888.

Ser. No. 142,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 18, 1921.



Particular description of goods.—Dyestuffs, Certified Food-Colors, and Intermediates.
Claims use since Mar. 10, 1920.

Ser. No. 142,395. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 18, 1921.



Particular description of goods.—Dyestuffs, Certified Food-Colors, and Intermediates.
Claims use since Mar. 10, 1920.

Ser. No. 142,396. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 18, 1921.



Particular description of goods.—Dyestuffs, Certified Food-Colors, and Intermediates.
Claims use since May 10, 1920.

Ser. No. 142,397. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 18, 1921.



Particular description of goods.—Dyestuffs, Certified Food-Colors, and Intermediates.
Claims use since Mar. 10, 1920.

Ser. No. 142,441. (CLASS 39. CLOTHING.) JULIUS KAYSER & Co., New York, N. Y. Filed Jan. 19, 1921.

MARVEL-HEEL

Applicant disclaims the word "Heel" as shown on the drawing.
Particular description of goods.—Stockings.
Claims use since Dec. 11, 1920.

Ser. No. 142,456. (CLASS 15. OILS AND GREASES.) STOLL OIL REFINING CO., Louisville, Ky. Filed Jan. 19, 1921.

VISCOYL

Particular description of goods.—Petroleum Lubricating-Oils.
Claims use since Nov. 15, 1920.

Ser. No. 142,458. (CLASS 39. CLOTHING.) ART KNIT HOSIERY COMPANY, Philadelphia, Pa. Filed Jan. 20, 1921.



Said drawing being lined for the purpose of shading only.
Particular description of goods—Hosiery.
Claims use since Oct. 29, 1920.

Ser. No. 142,468. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENTLEY & TWOHEY SILK COMPANY, Newton, N. J., and New York, N. Y. Filed Jan. 20, 1921.

"Slipnot Krepe"

No claim being made to the word "Krepe."
Particular description of goods.—Silk Goods in the Piece.
Claims use since Oct. 26, 1920.

Ser. No. 142,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEASE & DWYER CO., Memphis, Tenn. Filed Jan. 20, 1921.

NOX-ALL

Particular description of goods.—Grain Feed Composed of Corn, Oats, Alfalfa-Meal, and Molasses.
Claims use since January, 1914.

Ser. No. 142,581. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BUSER AND COMPANY, Niederdorf, Switzerland. Filed Jan. 22, 1921.

NIDOR

Particular description of goods.—Clocks, Parts of Clocks, Clockworks, Watches, Parts of Watches, and Watchworks.
Claims use since October, 1918.

Ser. No. 142,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ERB DRUG CO., INC., Lynchburg, Va. Filed Jan. 22, 1921.

EDECO

Particular description of goods.—A General Tonic.
Claims use since May 10, 1916.

Ser. No. 142,809. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. M. ROBINSON COMPANY, Atlanta, Ga. Filed Jan. 26, 1921.

RED ROBIN



The words "Red Robin," the breast of the robin, and the setting sun shown below the branch on which the robin is perched are colored in red, and the wings, tail-feathers, and back of the robin are black.
Particular description of goods.—Cotton Piece Goods.
Claims use since July 1, 1916.

Ser. No. 142,814. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Jan. 26, 1921.

SINCLAIR

Particular description of goods.—Refined, Semirefined, and Unrefined Oils Made from Petroleum, Both with and without Admixture of Animal, Vegetable, or Mineral Oils, for Illuminating, Burning, Power, Fuel, and Lubricating Purposes.
Claims use since Nov. 7, 1919.

Ser. No. 142,827. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Jan. 27, 1921.

Mirrokrepe

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since about Jan. 20, 1921.

Ser. No. 142,888. (CLASS 39. CLOTHING.) KAYS MILLINERY COMPANY, Newark, N. J. Filed Jan. 28, 1921.

KAYS

Particular description of goods.—Ladies' Hats.
Claims use since Oct. 7, 1914.

Ser. No. 142,925. (CLASS 39. CLOTHING.) THE E-Z WAIST COMPANY, New York, N. Y. Filed Jan. 29, 1921.

E-Z (EASY)

Particular description of goods.—Underwaists, Union-Suits, and Sleeping-Garments.
Claims use since Dec. 1, 1895.

Ser. No. 142,933. (CLASS 39. CLOTHING.) F. P. HOY, INC., New York, N. Y. Filed Jan. 29, 1921.

JOAN

Particular description of goods.—Corsets.
Claims use since July, 1920.

Ser. No. 142,941. (CLASS 39. CLOTHING.) JOSEPH RODGERS, INC., New York, N. Y. Filed Jan. 29, 1921.

"JoRoD"

Particular description of goods.—Misses' and Ladies' Suits, Coats, and Dresses.
Claims use since Jan. 20, 1921.

Ser. No. 143,051. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELLEY BROTHERS, Detroit, Mich. Filed Feb. 1, 1921.



No claim is made to exclusive use of the words "Kelley's Special" in this application apart from the other features of the mark.
Particular description of goods.—Coffee.
Claims use since Dec. 3, 1920.

Ser. No. 143,055. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW YORK STORE MERCANTILE COMPANY, Cairo, Ill. Filed Feb. 1, 1921.

CONSOLATION

Particular description of goods.—Canned Fruits, Canned Vegetables, Pork and Beans, Sausage, Canned Soup, Coffee, Macaroni, Spaghetti, Noodles, Mince-Meat, Peanut-Butter, Vinegar, Olives, Tapioca, Spices, Catsup, Candy, Honey, Horse-Radish, Fruit Preserves, Fruit Jellies, Mackerel in Tubs, Mustard, Salted Peanuts, Rice, Sauces in Bottles, Tea, Sugar, Food-Flavoring Extracts, Syrup for Table Use, Canned Fish, Oysters, Canned Berries, Corn-Syrup, and Sorghum.
Claims use since 1895.

Ser. No. 143,065. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL JEFFERSON SLIGH, Orlando, Fla. Filed Feb. 1, 1921.

ELK

Particular description of goods.—Fresh Citrus Fruits and Fresh Tomatoes.
Claims use since Nov. 12, 1902.

Ser. No. 143,075. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WABASH BAKING POWDER COMPANY, Wabash, Ind. Filed Feb. 1, 1921.

WABASH

KING

Particular description of goods.—Coffee, Tea, and Spices.
Claims use since Oct. 23, 1920.

Ser. No. 143,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAGE & SHAW, INC., Cambridge, Mass. Filed Feb. 3, 1921. Under ten-year proviso.

Excellence

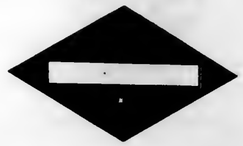
Particular description of goods.—Chocolate, Cocoa Powder, and Cocoa-Butter.
Claims use since May 15, 1892.

Ser. No. 143,149. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y. Filed Feb. 4, 1921.

DREYFUSILK

Particular description of goods.—Knitted and Woven Cloths and Fabrics in the Piece Made of Silk and Artificial Silk and Knitted and Woven Cloths and Fabrics in the Piece Made of a Combination of Real or Artificial Silk with Each other or with other Substances.
Claims use since Jan. 17, 1921.

Ser. No. 143,299. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SHOTWELL JOHNSON CO., Minneapolis, Minn. Filed Feb. 7, 1921.



Particular description of goods.—Radiators, Fenders, Mud-Guards, and Hoods for Automobiles, Motor-Trucks, and Tractors.
Claims use since July, 1917.

Ser. No. 143,318. (CLASS 39. CLOTHING.) JOSEPH A. FIRSCHING, Utica, N. Y. Filed Feb. 8, 1921.

Netherbocker

Particular description of goods.—Underwear—That is, of Knitted, Netted, and Textile Fabrics—That is, of One, Two, and Three Piece Garments and for Men, Women, and Children.
Claims use since Jan. 24, 1921.

Ser. No. 143,337. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BAINES ENGINEERING COMPANY, Canal Dover, Ohio. Filed Feb. 9, 1921.

CULTRACTOR

Particular description of goods.—Tractors.
Claims use since about March, 1920.

Ser. No. 143,446. (CLASS 39. CLOTHING.) McCAWLEY AND CO., INC., Baltimore, Md. Filed Feb. 11, 1921.

SLIPOVA

Particular description of goods.—Rompers for Children; Blouses for Women and Children, Including Middy-Blouses; Women's and Children's Cotton Dresses, Including Middy-Dresses; Women's and Children's Overskirts and Sleeping-Garments.
Claims use since about Dec. 16, 1918.

Ser. No. 143,457. (CLASS 39. CLOTHING.) C. B. SHANE CO., Chicago, Ill. Filed Feb. 11, 1921.

ARTWEVE

Particular description of goods.—Raincoats.
Claims use since on or about Jan. 15, 1919.

Ser. No. 143,478. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE BISHOP COMPANY, North Attleboro, Mass. Filed Feb. 12, 1921.

MASTER

Particular description of goods.—Spectacles, Eyeglasses, and Ophthalmic Mountings and Component Parts of Such Mountings.
Claims use since 1916.

Ser. No. 143,502. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) E. KESSLING THERMOMETER CO., Brooklyn, N. Y. Filed Feb. 12, 1921.

KESEK

Consisting of the word "Kesek."
Particular description of goods.—Clinical thermometers.
Claims use since about 1901.

Ser. No. 143,535. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) G. W. CONARD & COMPANY, Philadelphia, Pa. Filed Feb. 14, 1921.

MIST-OFF

The lining on the drawing is for the purpose of shading only.
Particular description of goods.—Preparation to prevent Deposit of Moisture on Glass.
Claims use since Sept. 15, 1919.

Ser. No. 143,564. (CLASS 39. CLOTHING.) WILMOT Y. MILLER, Schuylkill Haven, Pa. Filed Feb. 14, 1921.



Particular description of goods.—Infants' and Children's Shoes Made Wholly or in Part of Leather.
Claims use since Sept. 1, 1917.

Ser. No. 143,589. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE HARRY CLARK, Newark, N. J. Filed Feb. 15, 1921.

Creamalt

No exclusive right to the words "Trade Mark Reg. U. S. A." is claimed apart from the other features of the mark.
Particular description of goods.—Cream Malted Chocolate.
Claims use since Jan. 2, 1921.

Ser. No. 143,593. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ELKONITE SOAP CO., INC., Oakland, Calif. Filed Feb. 15, 1921.



Particular description of goods.—Soap.
Claims use since Dec. 8, 1920.

Ser. No. 143,598. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD CO., New York, N. Y. Filed Feb. 15, 1921.

CALLOT

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.
Claims use since Dec. 10, 1920.

Ser. No. 143,624. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOWARD A. TAPPEN, Woodbridge, N. J. Filed Feb. 15, 1921.

H. A. T.

Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 4, 1921.

Ser. No. 143,661. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 16, 1921.

"KARA-FUR"

Consists of the word "Kara-Fur." No claim is made to the exclusive use of the word "Fur" except in connection with the mark shown.

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Jan. 18, 1921.

Ser. No. 143,749. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 18, 1921.



The picture forming a part of the mark is fanciful. Exclusive right to the use of the words "India Linon" is hereby disclaimed.

Particular description of goods.—India Linon, Ginghams, Poplin, Long-Cloth, Nainsook, Batistes, Voiles, and Dimities in the Piece.

Claims use since 1914.

Ser. No. 143,750. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Feb. 18, 1921.

Fitzpatrick's

Particular description of goods.—A Cleaning and Scouring Preparation in Finely-Divided Form for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, Bathtubs, Ice-Boxes, and Household Articles.

Claims use since February, 1921.

Ser. No. 143,755. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ROLAND A. GSELL, New York, N. Y. Filed Feb. 18, 1921.

Leviathan

The diagonal lines shown in the drawing indicate shading only.

Particular description of goods.—Watchcases and Parts Thereof, Watches, and Watch-Movements.

Claims use since Jan. 1, 1920.

Ser. No. 143,903. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING CO., Chicago, Ill. Filed Feb. 23, 1921.



Particular description of goods.—Automobiles.

Claims use since Dec. 23, 1920.

Ser. No. 143,952. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES S. PURDY, Los Angeles, Calif. Filed Feb. 23, 1921.

P. P. S.

Particular description of goods.—Soap and Soap Pastes.

Claims use since Jan. 1, 1921.

Ser. No. 143,972. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AUSTIN A. WIGGINS, Cleveland, Ohio. Filed Feb. 23, 1921.

Wig's

Particular description of goods.—Soap.

Claims use since Feb. 1, 1920.

Ser. No. 143,976. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Feb. 24, 1921.

LUXURIA

Particular description of goods.—Toilet Soap for Cleaning Purposes.

Claims use since Nov. 15, 1919.

Ser. No. 143,993. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed Feb. 24, 1921.

Spit Fire

Particular description of goods.—Dry Batteries.

Claims use since about Nov. 1, 1910.

Ser. No. 144,062. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed Feb. 26, 1921.

"More power to you"

Particular description of goods.—Lubricating-Oils and Gasolene.

Claims use since Jan. 27, 1921.

Ser. No. 144,084. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HERRIOTT POLISH CO., St. Louis, Mo. Filed Feb. 26, 1921.

Patria

Particular description of goods.—A Preparation for Cleaning, Shining, and Polishing Shoes and All Leather Articles.

Claims use since July 1, 1920.

Ser. No. 144,219. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Mar. 2, 1921.

Snowkrepe

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.

Claims use since about Feb. 21, 1921.

Ser. No. 144,255. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Mar. 2, 1921.

JUCO

Particular description of goods.—Jute and Cotton Bats.

Claims use since Feb. 11, 1921.

Ser. No. 144,271. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN ROLLING MILL COMPANY, Middletown, Ohio. Filed Mar. 3, 1921.



No claim being made to the word "Miami" and "Metal" except in conjunction with the remainder of the mark.

Particular description of goods.—Bars, Billets, Castings, Forgings, Ingots, Plates; Shapes, Plain and Formed, Coated and Uncoated; Sheets, Rods, and Wire, All of Iron, of Steel, and of Alloys of Iron.

Claims use since Feb. 7, 1921.

Ser. No. 144,272. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRED D. AMMIDOWN, Boston, Mass. Filed Mar. 3, 1921.

Motor Girl

Consisting of the words "Motor Girl."

Particular description of goods.—Hair-Nets.

Claims use since Feb. 18, 1921.

Ser. No. 144,275. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) H. BOKER & CO. INC., New York, N. Y. Filed Mar. 3, 1921.

NICKONOMY

Particular description of goods.—Nickel and Nickel-Alloy Clad Steel Sheets.

Claims use since about Nov. 22, 1920.

Ser. No. 144,312. (CLASS 38. PRINTS AND PUBLICATIONS.) BESSIE DAMSEY, INC., New York, N. Y. Filed Mar. 5, 1921.

BOUDOIR WEAR

Particular description of goods.—A Publication Issued About Semi-Annually.

Claims use since about Feb. 15, 1921.

Ser. No. 144,350. (CLASS 15. OILS AND GREASES.) THE PURE OIL COMPANY, Columbus, Ohio. Filed Mar. 5, 1921.

RODOL

Particular description of goods.—Oil for Treatment of Road-Surfaces.

Claims use since Feb. 1, 1921.

Ser. No. 144,535. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Mar. 9, 1921.

REVOREE

Particular description of goods.—Silk Piece Goods.

Claims use since August, 1920.

Ser. No. 144,537. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Mar. 9, 1921.

EVOWER

Particular description of goods.—Silk Piece Goods.

Claims use since September, 1920.

Ser. No. 144,566. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NORVIL T. FOSTER, Columbus, Ohio. Filed Mar. 10, 1921.

FOSCO

Particular description of goods.—Antichattering Fluid Used in the Treatment of Speed-Band Linings and the Like.
Claims use since about Jan. 1, 1921.

Ser. No. 144,619. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Mar. 11, 1921.

POLLYANNA

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.
Claims use since Dec. 15, 1920.

Ser. No. 144,745. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SCHAUMM-SCHRUMM CO., Chicago, Ill. Filed Mar. 14, 1921.

Krambambuli

Particular description of goods.—Material for Manufacturing Home Brew, Comprising Principally Hops, Malt, Flavoring, and Gelatin.
Claims use since Feb. 24, 1921.

Ser. No. 144,881. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THAKER DEV SHARMAN, Detroit, Mich. Filed Mar. 17, 1921.

SUN-DISKS

The word "Disks" is disclaimed apart from the mark shown.
Particular description of goods.—Laundry-Tablets.
Claims use since Mar. 1, 1921.

Ser. No. 145,028. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARTIN MCDERMOTT, Chicago, Ill. Filed Mar. 21, 1921.

KARPO

Particular description of goods.—A Cleansing Compound Suitable for Cleaning and Restoring Color to Oriental Rugs, Carpets, Clothing, &c., and for other Purposes.
Claims use since on or about Jan. 15, 1921.

Ser. No. 145,050. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN OSCAR WERNER, New York, N. Y. Filed Mar. 21, 1921.

100%

Particular description of goods.—A Soft-Metal Grinding Compound.
Claims use since Jan. 28, 1921.

Ser. No. 145,374. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ADOLPH WERNER, Milwaukee, Wis. Filed Mar. 28, 1921.

Magicloth

Particular description of goods.—A Cloth Used for Polishing Metal.
Claims use since January, 1915.

Ser. No. 145,384. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BURNS MFG. CO., New York, N. Y. Filed Mar. 29, 1921.

KLINGO

Particular description of goods.—Leather-Dressings.
Claims use since Mar. 25, 1921.

Ser. No. 145,391. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Mar. 29, 1921.

CHIANG

Particular description of goods.—Soaps.
Claims use since July 18, 1920.

Ser. No. 145,561. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FAN FLAME SPARK PLUG CO., INC., Yonkers, N. Y. Filed Apr. 1, 1921.

FAN

Particular description of goods.—Spark-Plugs.
Claims use since May, 1917.

Ser. No. 145,716. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROLLING TOOTH BRUSH COMPANY, Boston, Mass., and Montclair, N. J. Filed Apr. 4, 1921.

Cedarbalm

Particular description of goods.—Toilet Soap.
Claims use since Aug. 15, 1920.

Ser. No. 145,770. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE CHESAPEAKE BELTING COMPANY, Baltimore, Md. Filed Apr. 6, 1921.

KING COTTON

Particular description of goods.—Canvas Belting.
Claims use since May 1, 1905.

Ser. No. 145,790. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LUMINOUS SPECIALTY COMPANY, Indianapolis, Ind. Filed Apr. 6, 1921.

DAY-GLOW

Particular description of goods.—Electric-Light-Diffusing Fixtures.
Claims use since Mar. 1, 1921.

Ser. No. 145,806. (CLASS 39. CLOTHING.) THE WARD-STILSON COMPANY, Anderson, Ind. Filed Apr. 6, 1921.

Maisonette

Particular description of goods.—Aprons and House-Dresses.
Claims use since Mar. 21, 1921.

Ser. No. 145,834. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE KEPEC COMPANY, Milwaukee, Wis. Filed Apr. 7, 1921.

KEEPA-SHINE

Particular description of goods.—Leather-Dressings Packaged in Liquid and Solid Form and Also Metal-Polishing Materials.
Claims use since January, 1920.

Ser. No. 145,879. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) G. CRAMER DRY PLATE COMPANY, St. Louis, Mo. Filed Apr. 8, 1921.

LIGHTNING

Particular description of goods.—Photographic Dry Plates, Including X-Ray Dry Plates.
Claims use since Jan. 1, 1887.

Ser. No. 145,880. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) G. CRAMER DRY PLATE COMPANY, St. Louis, Mo. Filed Apr. 8, 1921.

LIGHTNING



Particular description of goods.—X-Ray Dry Plates.
Claims use since Mar. 16, 1921.

Ser. No. 145,910. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE A. E. PERKINS CORPORATION, Dallas, Tex. Filed Apr. 8, 1921.

HY-TONE

Particular description of goods.—A Cleaner and Polish for White-Leather Shoes.
Claims use since August, 1914.

Ser. No. 145,938. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLING-SURFACE COMPANY, Buffalo, N. Y. Filed Apr. 9, 1921.



ZEBRA

Particular description of goods.—Dressings for Power-Transmission Belts.
Claims use since Mar. 7, 1921.

Ser. No. 146,112. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) CHROME STEEL WORKS, Chrome, N. J. Filed Apr. 13, 1921.

ADAMANTINE

Particular description of goods.—Iron and Steel Forgings and Castings.
Claims use since 1886.

Ser. No. 146,131. (CLASS 43. THREAD AND YARN.) MAX POLLACK & CO., INC., New York, N. Y. Filed Apr. 13, 1921.

PARCIVAL

Particular description of goods.—Sewing-Threads.
Claims use since 1896.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

MAY 31, 1921.

143,272. FIBER-BOARDS SOLD IN SHEETS. THE AGASOTE MILLBOARD CO., Trenton, N. J.
Filed December 2, 1920. Serial No. 140,515. PUBLISHED FEBRUARY 15, 1921.

143,273. ARTIFICIAL ALKALIZED HYDRATED FERRIC OXID. ALPHA-LUX COMPANY, INC., New York, N. Y.
Filed September 24, 1920. Serial No. 137,556. PUBLISHED FEBRUARY 15, 1921.

143,274. LAUNDRY AND TOILET SOAP, SOAP CHIPS, SWEEPING COMPOUNDS, AND WASHING-POWDER. AMBOY PRODUCTS CO., Chicago, Ill.
Filed December 8, 1920. Serial No. 140,770. PUBLISHED FEBRUARY 22, 1921.

143,275. NEEDLES FOR HAND-EMBROIDERY AND SIMILAR WORK. AMERICAN ART NEEDLE COMPANY, Dallas, Tex.
Filed December 26, 1919. Serial No. 126,438. PUBLISHED FEBRUARY 15, 1921.

143,276. YARNS. AMERICAN TRADING COMPANY, New York, N. Y.
Filed August 27, 1919. Serial No. 122,033. PUBLISHED NOVEMBER 4, 1919.

143,277. CERTAIN NAMED MOTOR-VEHICLES. THE ASSOCIATED EQUIPMENT COMPANY, LIMITED, Westminster, London, England.
Filed July 27, 1920. Serial No. 135,441. PUBLISHED MARCH 1, 1921.

143,278. LUBRICANTS CONSISTING OF OILS AND GREASES. ASSOCIATED OIL COMPANY, San Francisco, Calif.
Filed August 26, 1920. Serial No. 136,498. PUBLISHED DECEMBER 21, 1920.

143,279. BOYS' KNICKERBOCKER SUITS. ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y.
Filed October 5, 1920. Serial No. 137,903. PUBLISHED FEBRUARY 15, 1921.

143,280. CHOCOLATES. D. AUERBACH & SONS, New York, N. Y.
Filed August 13, 1915. Serial No. 88,587. PUBLISHED FEBRUARY 22, 1921.

143,281. WOMEN'S ONE-PIECE UNDERWEAR OF TEXTILE FABRIC. J. BAACH CO., Chicago, Ill.
Filed August 16, 1919. Serial No. 121,709. PUBLISHED JANUARY 6, 1920.

143,282. OLEOMARGARIN. THE BALTIMORE BUTTERINE CO., Baltimore, Md.
Filed September 20, 1920. Serial No. 137,358. PUBLISHED FEBRUARY 15, 1921.

143,283. BAKING-GLASSWARE. BARTLETT-COLLINS GLASS CO., Sapulpa, Okla.
Filed October 14, 1920. Serial No. 138,278. PUBLISHED FEBRUARY 15, 1921.

143,284. WHEAT-FLOUR AND CORNMEAL. BAY CITY MILLING COMPANY, Bay City, Mich.
Filed December 26, 1919. Serial No. 126,448. PUBLISHED FEBRUARY 15, 1921.

143,285. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS THEREFOR. THE BEE BEE CONFECTION COMPANY, Dayton, Ohio.
Filed April 2, 1920. Serial No. 130,509. PUBLISHED FEBRUARY 15, 1921.

143,286. WOVEN FELTS AND PIECE GOODS OF WOOL OR MIXTURES OF WOOL AND COTTON. EDWARD H. BEST & CO., INCORPORATED, Portland, Me., and Boston, Mass.
Filed November 1, 1919. Serial No. 124,432. PUBLISHED FEBRUARY 22, 1921.

143,287. JELLIED RABBIT. ARTHUR J. BILLIN & CO., INC., New York, N. Y.
Filed July 31, 1920. Serial No. 135,633. PUBLISHED FEBRUARY 22, 1921.

143,288. FELT-BASE FLOOR-COVERINGS AND RUG-BORDERS. BIRD & SON, INC., East Walpole, Mass.
Filed June 19, 1920. Serial No. 133,910. PUBLISHED FEBRUARY 15, 1921.

143,289. CERTAIN NAMED CONSTRUCTION MATERIALS. BIRD & SON, INC., East Walpole, Mass.
Filed June 19, 1920. Serial No. 133,911. PUBLISHED FEBRUARY 15, 1921.

143,290. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SAMUEL BLACKMAN, Philadelphia, Pa.
Filed October 30, 1920. Serial No. 138,978. PUBLISHED FEBRUARY 15, 1921.

143,291. SHEET-MUSIC. THE BOSTON MUSIC CO., Boston, Mass.
Filed November 2, 1920. Serial No. 139,070. PUBLISHED FEBRUARY 15, 1921.

143,292. MOCCASINS. BOWS MOCCASIN COMPANY, Avon, Mass.
Filed January 30, 1920. Serial No. 127,753. PUBLISHED FEBRUARY 22, 1921.

143,293. CHOCOLATE CANDIES. THE BRECHT CANDY COMPANY, Denver, Colo.
Filed December 9, 1919. Serial No. 125,744. PUBLISHED FEBRUARY 22, 1921.

143,294. PIANOS AND PLAYER-PIANOS. THE CABLE COMPANY, Chicago, Ill.
Filed August 29, 1919. Serial No. 122,104. PUBLISHED FEBRUARY 15, 1921.

143,295. TALKING-MACHINES AND MECHANICAL OR PLAYER PIANOS. CABLE-NELSON PIANO COMPANY, Chicago, Ill.
Filed April 14, 1919. Serial No. 117,434. PUBLISHED FEBRUARY 15, 1921.

143,296. THERMOMETERS, PYROMETERS, DRAFT AND PRESSURE GAGES, AND PRECISION ELECTRICAL MEASURING INSTRUMENTS. THE CAMBRIDGE SCIENTIFIC INSTRUMENT COMPANY LIMITED, Cambridge, England.
Filed November 22, 1919. Serial No. 125,173. PUBLISHED FEBRUARY 22, 1921.

143,297. DEVICES FOR MECHANICALLY SHARPENING SCISSORS. BERT CARLISLE, Santa Ana, Calif.
Filed July 22, 1920. Serial No. 135,270. PUBLISHED FEBRUARY 22, 1921.

143,298. A CERTAIN NAMED MEDICINAL PREPARATION. WILLIAM JOACHIM CARON, Uxbridge, Mass.
Filed September 17, 1920. Serial No. 137,282. PUBLISHED FEBRUARY 15, 1921.

143,299. BLEACHED AND UNBLEACHED COTTON FLANNELS. CARSON, PIRIE, SCOTT & CO., Chicago, Ill., assignors to Carson Pirie Scott & Company, Chicago, Ill., a Corporation of Illinois.
Filed June 22, 1914. Serial No. 79,260. PUBLISHED FEBRUARY 22, 1921.

143,300. GRIPPERS FOR USE ON PRINTING-PRESSES. CASPER GRIPPER CO., Cleveland, Ohio.
Filed July 26, 1920. Serial No. 135,409. PUBLISHED FEBRUARY 22, 1921.

143,301. CERTAIN NAMED FURNACES, EVAPORATORS, AND PARTS THEREOF. CHATTANOOGA PLOW COMPANY, Chattanooga, Tenn., and Chicago, Ill.
Filed April 14, 1920. Serial No. 131,105. PUBLISHED FEBRUARY 22, 1921.

143,302. CERTAIN PAINTS AND PAINTING MATERIALS. CHICAGO WHITE LEAD AND OIL CO., Chicago, Ill.
Filed July 19, 1920. Serial No. 135,135. PUBLISHED DECEMBER 21, 1920.

143,303. SHAVING-CREAM IN THE FORM OF SOAP PASTE. THE CITIZENS' WHOLESALE SUPPLY COMPANY, Columbus, Ohio.
Filed November 3, 1920. Serial No. 139,112. PUBLISHED FEBRUARY 15, 1921.

143,304. PHONOGRAPHS. THE GEO. B. CLARK CO. INC., Bridgeport, Conn.
Filed September 4, 1920. Serial No. 136,833. PUBLISHED FEBRUARY 15, 1921.

143,305. AUTOMOBILE-BODIES, CARRIAGES AND WAGONS, AND BODIES FOR HORSE-DRAWN AND MOTOR VEHICLES. THE CLAYTON COMPANY, INC., New York, N. Y.
Filed November 20, 1919. Serial No. 125,107. PUBLISHED DECEMBER 7, 1920.

143,306. PRINTED BOOKS, PUBLISHED IN SERIES. EDWARD J. CLODE, New York, N. Y.
Filed June 10, 1920. Serial No. 133,521. PUBLISHED FEBRUARY 22, 1921.

143,307. SOAP. THE COCO SOAP COMPANY, Denver, Colo.
Filed July 21, 1920. Serial No. 135,232. PUBLISHED FEBRUARY 15, 1921.

143,308. GARTERS. CRESCENT GARTER CO., New York, N. Y.
Filed December 17, 1920. Serial No. 141,212. PUBLISHED FEBRUARY 15, 1921.

143,309. LUBRICATING OILS AND GREASES. CREW LEVICK COMPANY, Philadelphia, Pa.
Filed September 5, 1919. Serial No. 122,338. PUBLISHED FEBRUARY 15, 1921.

143,310. PEARLS, WHETHER PRECIOUS OR ARTIFICIAL, AND PRECIOUS, SEMIPRECIOUS, AND SYNTHETIC STONES USED AS JEWELRY. CZECHOSLOVAK BEAD COMPANY, INC., New York, N. Y.
Filed September 24, 1920. Serial No. 137,566. PUBLISHED FEBRUARY 15, 1921.

143,311. COTTON PIECE GOODS. RAFAEL DEL CASTILLO & Co., New York, N. Y.
Filed April 10, 1920. Serial No. 130,985. PUBLISHED FEBRUARY 15, 1921.

143,312. CERTAIN NAMED ELECTRICAL APPARATUS. THE DANBURY ELECTRIC MANUFACTURING CO., Danbury, Conn.
Filed October 4, 1920. Serial No. 137,874. PUBLISHED FEBRUARY 15, 1921.

143,313. COMPOUND FOR USE IN FILLING TEETH. DENTAL CERAMIC CORPORATION, Greenport, N. Y.
Filed August 21, 1920. Serial No. 136,324. PUBLISHED FEBRUARY 15, 1921.

143,314. INSOLES MADE OF CARDBOARD. MAURICE DE FRANCE, Brussels, Belgium.
Filed July 7, 1920. Serial No. 134,652. PUBLISHED FEBRUARY 15, 1921.

143,315. COMPOUND FOR USE IN FILLING TEETH. DENTAL CERAMIC CORPORATION, Greenport, N. Y.
Filed August 21, 1920. Serial No. 136,325. PUBLISHED FEBRUARY 15, 1921.

143,316. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 15, 1919. Serial No. 123,797. PUBLISHED FEBRUARY 22, 1921.

143,317. COAL AND COKE. DOUGLASS BARNES CORPORATION, New York, N. Y.
Filed August 25, 1920. Serial No. 136,461. PUBLISHED FEBRUARY 15, 1921.

143,318. VALVES FOR INTERNAL-COMBUSTION ENGINES. J. A. DRAKE AND SONS, Reedley, Calif.
Filed August 4, 1920. Serial No. 135,783. PUBLISHED FEBRUARY 22, 1921.

143,319. WATERPROOF MACHINE-BELTING MADE OF LEATHER. THE DRUID OAK BELTING COMPANY, INC., Baltimore, Md.
Filed December 10, 1920. Serial No. 140,881. PUBLISHED FEBRUARY 15, 1921.

143,320. TOY COASTER-WAGONS. NEVIN AUGUSTUS ARCHIBALD, Concord, N. C.
Filed July 27, 1920. Serial No. 135,450. PUBLISHED FEBRUARY 15, 1921.

143,321. TEXTILE FIBERS IN THE NATURE OF SILK OR VEGETABLE FIBERS. SIDNEY SMITH BOYCE, Saginaw, Mich.
Filed July 24, 1920. Serial No. 135,354. PUBLISHED FEBRUARY 15, 1921.

143,322. WINDOW AND DOOR FRAMES. THE CROWLEY CO., Spokane, Wash.
Filed November 29, 1920. Serial No. 140,373. PUBLISHED FEBRUARY 15, 1921.

143,323. COMPOUND FOR COOLING THE TOOLS OF METAL-CUTTING MACHINERY. EASTRAY CHEMICAL COMPANY, Emeryville, Calif.
Filed March 15, 1920. Serial No. 129,705. PUBLISHED FEBRUARY 22, 1921.

143,324. WHEAT-FLOUR AND CORNMEAL. EARLE-McGAVOCK MILLING COMPANY, Asheville, N. C.
Filed November 10, 1920. Serial No. 139,469. PUBLISHED FEBRUARY 15, 1921.

143,325. CERTAIN NAMED INSULATING MATERIAL. EHRET MAGNESIA MANUFACTURING COMPANY, Valley Forge, Pa.
Filed December 4, 1920. Serial No. 140,586. PUBLISHED FEBRUARY 15, 1921.

143,326. FACE-POWDERS, TALCUM POWDERS, PERFUME, AND TOILET WATERS. ELMO INC., Philadelphia, Pa.
Filed November 3, 1919. Serial No. 124,475. PUBLISHED FEBRUARY 22, 1921.

143,327. FACE-POWDERS, TALCUM POWDERS, PERFUME, AND TOILET WATERS. ELMO INC., Philadelphia, Pa.
Filed November 3, 1919. Serial No. 124,476. PUBLISHED FEBRUARY 22, 1921.

143,328. FACE-POWDERS, TALCUM POWDERS, PERFUME, AND TOILET WATERS. ELMO INC., Philadelphia, Pa.
Filed November 3, 1919. Serial No. 124,477. PUBLISHED FEBRUARY 22, 1921.

143,329. CERTAIN ARTICLES OF CLOTHING. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed October 8, 1920. Serial No. 138,087. PUBLISHED FEBRUARY 15, 1921.

143,330. COTTON GOODS IN THE PIECE. THE ERWIN COTTON MILLS CO., West Durham, N. C.
Filed September 22, 1920. Serial No. 137,453. PUBLISHED FEBRUARY 15, 1921.

143,331. SHEETS AND PILLOW-CASES AND COTTON GOODS IN THE PIECE. THE ERWIN COTTON MILLS CO., West Durham, N. C.
Filed September 22, 1920. Serial No. 137,459. PUBLISHED FEBRUARY 15, 1921.

143,332. OINTMENT. ESKO PRODUCTS COMPANY, Phillipsburg, N. J.
Filed June 26, 1920. Serial No. 134,243. PUBLISHED FEBRUARY 22, 1921.

143,333. SHEET COMPOSITE MACHINERY PACKING FOR STEAM, WATER, AND OTHER PIPE JOINTS. FERGUSON & TIMPSON LIMITED, Glasgow, Scotland, and London, England.
Filed August 9, 1919. Serial No. 121,465. PUBLISHED MARCH 8, 1921.

143,334. NAIL-FILES, NAIL-CLIPPERS, NAIL-POLISHERS, CUTICLE-KNIVES, MANICURE-TWEEZERS, AND MANICURE-SCISSORS. THE FIBERLOID CORPORATION, Indian Orchard, Mass.
Filed July 31, 1920. Serial No. 135,642. PUBLISHED FEBRUARY 22, 1921.

143,335. CHILDREN'S UNDERWAISTS. SAMUEL J. FISHEL, Brooklyn, N. Y.
Filed October 5, 1920. Serial No. 137,925. PUBLISHED FEBRUARY 15, 1921.

143,336. REDUCING COMPOUND FOR LITHOGRAPHIC AND PRINTING INKS. FLORASYNTH LABORATORIES, INCORPORATED, Unionport, N. Y.
Filed September 11, 1920. Serial No. 137,081. PUBLISHED FEBRUARY 15, 1921.

143,337. DENTIFRICE. FLORENCE MANUFACTURING COMPANY, Northampton, Mass.
Filed October 28, 1919. Serial No. 124,266. PUBLISHED FEBRUARY 15, 1921.

143,338. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed March 12, 1919. Serial No. 116,490. PUBLISHED APRIL 22, 1919.

143,339. CHILDREN'S OVERCOATS, MACKINAWS, AND REEFERS. ISADOR FRANK, New York, N. Y.
Filed November 13, 1919. Serial No. 124,854. PUBLISHED FEBRUARY 15, 1921.

143,340. CERTAIN NAMED RACKS AND TRAYS. THE FULLER BRUSH COMPANY, Hartford, Conn.
Filed September 11, 1920. Serial No. 137,080. PUBLISHED FEBRUARY 15, 1921.

143,341. CERTAIN METAL-WORKING TOOLS. THE GAIRING TOOL COMPANY, Detroit, Mich.
Filed June 3, 1920. Serial No. 133,208. PUBLISHED FEBRUARY 22, 1921.

143,342. DOLLS, DOLLS' DRESSES, AND DRESS-PATTERNS THEREFOR. MARIAN F. GARDINER, Seattle, Wash.
Filed September 20, 1920. Serial No. 137,370. PUBLISHED FEBRUARY 15, 1921.

143,343. FIELD, VEGETABLE, AND FLOWER SEEDS. GARDNER SEED COMPANY, Rochester, N. Y.
Filed October 14, 1920. Serial No. 138,284. PUBLISHED FEBRUARY 15, 1921.

143,344. PLATE-DENTIFRICE. HOWARD L. GARRETT, Allentown, Pa.
Filed September 16, 1920. Serial No. 137,259. PUBLISHED FEBRUARY 15, 1921.

143,345. INDIGO DYES, INDIGO PASTE, AND MIDLAND QUICK INDIGO. GASTON, WILLIAMS & WIGMORE, FAR EASTERN DIVISION, INC., New York, N. Y.
Filed September 18, 1920. Serial No. 137,318. PUBLISHED FEBRUARY 15, 1921.

143,346. INDIGO DYES, INDIGO PASTE, AND MIDLAND QUICK INDIGO. GASTON, WILLIAMS & WIGMORE, FAR EASTERN DIVISION, INC., New York, N. Y.
Filed September 18, 1920. Serial No. 137,319. PUBLISHED FEBRUARY 15, 1921.

143,347. WRITING-INK AND WRITING-INK IN TABLET FORM. THE GENERAL ECLIPSE CO., Danielson, Conn.
Filed April 10, 1918. Serial No. 110,094. PUBLISHED FEBRUARY 15, 1921.

143,348. CERTAIN NAMED GLASSWARE. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed January 2, 1920. Serial No. 126,722. PUBLISHED FEBRUARY 15, 1921.

143,349. EMBROIDERIES FOR BOTH MILITARY AND CIVILIAN PURPOSES. GENERAL EMBROIDERY & MILITARY SUPPLY CO. INC., New York and Brooklyn, N. Y.
Filed November 1, 1920. Serial No. 139,029. PUBLISHED FEBRUARY 15, 1921.

143,350. FURNITURE-POLISH. GLOBE GROCERY STORES, INC., Brooklyn, N. Y.
Filed December 11, 1919. Serial No. 125,843. PUBLISHED FEBRUARY 22, 1921.

143,351. OUTER CLOTHING FOR MEN AND BOYS—NAMELY, COATS, TROUSERS, OVERCOATS, RAINCOATS, VESTS, AND SWEATERS. BENJAMIN B. GOODMAN, Philadelphia, Pa.
Filed September 21, 1920. Serial No. 137,410. PUBLISHED FEBRUARY 15, 1921.

143,352. BELTING AND HOSE MADE OF FABRIC COMBINED WITH RUBBER AND MACHINERY PACKING MADE WHOLLY OR PARTLY OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,465. PUBLISHED MARCH 1, 1921.

143,353. AUTOMOBILES AND MOTOR-TRUCKS. THE GOODYEAR TIRE & RUBBER CO., Akron, Ohio.
Filed November 26, 1920. Serial No. 140,175. PUBLISHED FEBRUARY 15, 1921.

143,354. ORANGE MARMALADE. GORDON & DILWORTH, INC., New York, N. Y.
Filed June 21, 1920. Serial No. 133,967. PUBLISHED FEBRUARY 22, 1921.

143,355. COLLAPSIBLE DOORS. BENJAMIN F. GRAHAM, Chicago, Ill.
Filed September 27, 1920. Serial No. 137,659. PUBLISHED FEBRUARY 15, 1921.

143,356. LEATHER BELTING. GRANT LEATHER CORPORATION, Kingsport, Tenn.
Filed December 6, 1920. Serial No. 140,644. PUBLISHED FEBRUARY 15, 1921.

143,357. BOYS' BLOUSES MADE OF COTTON, SILK, FLANNEL, AND THE LIKE. GREENEBAUM, BROS. & Co., Philadelphia, Pa.
Filed September 9, 1920. Serial No. 136,978. PUBLISHED FEBRUARY 15, 1921.

143,358. GLOSSING COMPOUND FOR EYEBROWS, EYELASHES, MUSTACHE, AND BEARD. GEORGE BORGFELDT & Co., New York, N. Y.
Filed May 6, 1920. Serial No. 132,073. PUBLISHED FEBRUARY 15, 1921.

143,359. PORTABLE, STAND, AND STATIONARY ELECTRIC LAMPS AND STANDARDS, SHADE-HOLDERS, AND FIXTURE PARTS, ALL FOR ELECTRIC LIGHTING. THE HANDEL CO., Meriden, Conn.
Filed September 17, 1918. Serial No. 113,211. PUBLISHED FEBRUARY 22, 1921.

143,360. GARTERS. CHARLES J. HAUSEN, New York, N. Y.
Filed November 18, 1920. Serial No. 139,797. PUBLISHED FEBRUARY 15, 1921.

143,361. WORM MEDICINE AND STOCK-TONIC FOR STOCK. HENRY A. HAYNES, Winterville, Ga.
Filed October 30, 1920. Serial No. 138,989. PUBLISHED FEBRUARY 15, 1921.

143,362. STOVEPIPES AND STOVEPIPE-ELBOWS. HEMP & Co. (CORP.), St. Louis, Mo.
Filed December 18, 1919. Serial No. 126,217. PUBLISHED FEBRUARY 22, 1921.

143,363. DEODORANT AND ASTRINGENT. OTTO F. HEMPEL, Buffalo, N. Y.
Filed September 30, 1920. Serial No. 137,777. PUBLISHED FEBRUARY 15, 1921.

143,364. SILK AND SILK AND WOOL MIXTURE PIECE GOODS IN PLAIN AND FANCY WEAVES. HESS, GOLDSMITH & Co., New York, N. Y.
Filed October 20, 1920. Serial No. 128,682. PUBLISHED FEBRUARY 22, 1921.

143,365. ROUND AND SQUARE CORNER CUT NAME, DATA, AND INDEX CARDS. HIGHLAND MANUFACTURING COMPANY, Holyoke, Mass.
Filed November 14, 1919. Serial No. 124,904. PUBLISHED FEBRUARY 22, 1921.

143,366. COTTON-WASTE. HILL & CUTLER CO., Boston and New Bedford, Mass.
Filed January 28, 1921. Serial No. 142,883. PUBLISHED MARCH 1, 1921.

143,367. RUBBER HEELS. THE HILL RUBBER HEEL COMPANY, Elyria, Ohio.
Filed September 9, 1920. Serial No. 136,979. PUBLISHED FEBRUARY 15, 1921.

143,368. PATCHES FOR REPAIRING INNER TUBES OF TIRES, RUBBER HOT-WATER BAGS, AND RUBBER FOOTWEAR. HENRY R. HOFFELD, Buffalo, N. Y.
Filed January 7, 1919. Serial No. 115,026. PUBLISHED JULY 20, 1920.

143,369. REFINED COCOANUT-OIL. CHAS. HOLLINSHED CO., INC., New York, N. Y.
Filed July 7, 1920. Serial No. 134,645. PUBLISHED FEBRUARY 22, 1921.

143,370. NON-ALCOHOLIC WINES. WILLIAM H. HOMMEL, Sandusky, Ohio.
Filed September 20, 1920. Serial No. 137,373. PUBLISHED FEBRUARY 15, 1921.

143,371. OIL-DRESSING FOR BELTING. HOOFOL MANUFACTURING COMPANY INC., Philadelphia, Pa.
Filed November 18, 1920. Serial No. 139,800. PUBLISHED FEBRUARY 15, 1921.

143,372. PRINTING-PLATES READY FOR PRINTING. INTERNATIONAL PRINTING PLATE CO. INC., Arlington, N. J.
Filed November 8, 1920. Serial No. 139,356. PUBLISHED FEBRUARY 15, 1921.

143,373. AUTOMOBILES. ALFRED J. JACKSON, Grand Rapids, Mich.
Filed December 21, 1920. Serial No. 141,376. PUBLISHED FEBRUARY 15, 1921.

143,374. WALL-PAPER. KANSAS CITY WALL PAPER COMPANY, Kansas City, Mo.
Filed March 26, 1920. Serial No. 130,222. PUBLISHED FEBRUARY 22, 1921.

143,375. TOILET AND BATH SOAPS. KAUFMAN-STRAUS CO., Louisville, Ky.
Filed December 6, 1920. Serial No. 140,655. PUBLISHED FEBRUARY 15, 1921.

143,376. DRIED CRANBERRIES, CORN, CARROTS, MIXED VEGETABLES, SWEET POTATOES, AND OTHER VEGETABLES AND FRUITS OF THE TYPE KNOWN AS EVAPORATED. JOHN F. KELLY, Pittsfield, Mass.
Filed December 6, 1919. Serial No. 125,670. PUBLISHED JANUARY 11, 1921.

143,377. MECHANICAL FUEL-ECONOMIZERS. JOHN F. KENDALL, New York, N. Y.
Filed March 16, 1920. Serial No. 129,786. PUBLISHED FEBRUARY 22, 1921.

143,378. CERTAIN NAMED MEDICAL AND SURGICAL APPLIANCES. KEYSTONE SURGICAL SUPPLY CO., Conshohocken, Pa.
Filed January 28, 1920. Serial No. 127,693. PUBLISHED FEBRUARY 15, 1921.

143,379. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS THEREFOR. A. F. KLOSS CO., Scranton, Pa.
Filed December 15, 1920. Serial No. 141,115. PUBLISHED FEBRUARY 15, 1921.

143,380. STEPLADDERS. KRATHWOHL MFG. CO., Chicago, Ill.
Filed October 23, 1920. Serial No. 138,718. PUBLISHED FEBRUARY 15, 1921.

143,381. WOODEN SHINGLES. KRAUSS BROS. LUMBER CO., New Orleans, La.
Filed December 28, 1920. Serial No. 141,591. PUBLISHED JANUARY 15, 1921.

143,382. WATCHES, WATCHCASES, WATCH-DIALS, AND WATCH-MOVEMENTS. ED. KUMMER LIMITED, Bettlach, Switzerland, and New York, N. Y.
Filed April 5, 1920. Serial No. 130,677. PUBLISHED FEBRUARY 15, 1921.

143,383. COD-LIVER OIL. LANMAN & KEMP INC., New York, N. Y.
Filed September 25, 1920. Serial No. 137,620. PUBLISHED FEBRUARY 15, 1921.

143,384. SHOE PARTS—NAMELY, COUNTERS, WELTING, AND INSOLES. A. C. LAWRENCE LEATHER CO., Boston, Mass.
Filed September 21, 1920. Serial No. 137,424. PUBLISHED FEBRUARY 15, 1921.

143,385. LEATHER IN THE PIECE. LEATHASILK CO., New York, N. Y.
Filed December 30, 1920. Serial No. 141,681. PUBLISHED FEBRUARY 15, 1921.

143,386. CERTAIN NAMED MEDICINAL PREPARATION. LES ETABLISSEMENTS POULENC FRÈRES SOCIÉTÉ ANONYME, Paris, France.
Filed October 16, 1919. Serial No. 123,859. PUBLISHED FEBRUARY 22, 1921.

143,387. MORTAR, DRY MORTAR, LIME, CALCAREOUS CEMENT, HYDRAULIC CEMENT, ARTIFICIAL STONES, AND BETON. LEUKOLITH G. M. B. H., Saarbrücken, Germany.
Filed July 2, 1920. Serial No. 134,513. PUBLISHED AUGUST 24, 1920.

143,388. CAKE-FLOUR. THE LEVERING COFFEE COMPANY, Baltimore, Md.
Filed December 13, 1920. Serial No. 141,002. PUBLISHED FEBRUARY 22, 1921.

143,389. CLAMPS FOR SECURING TIRE-RIMS TO THE WHEELS OF AUTOMOBILES. ROBERT C. LOOCK, Baltimore, Md.
Filed December 22, 1920. Serial No. 141,426. PUBLISHED FEBRUARY 15, 1921.

143,390. WALL-PAPER. LOUISVILLE WALL PAPER COMPANY, INC., Louisville, Ky.
Filed March 26, 1920. Serial No. 130,230. PUBLISHED FEBRUARY 22, 1921.

143,391. CERTAIN NAMED GASKETS. MCCORD MANUFACTURING COMPANY, INC., Detroit, Mich.
Filed November 9, 1920. Serial No. 139,406. PUBLISHED FEBRUARY 15, 1921.

143,392. WRITING AND WRAPPING PAPER, MAILING AND CORRESPONDENCE ENVELOPS, AND CARDBOARD. MAIN PAPER STOCK CO. INC., New York, N. Y.
Filed November 12, 1919. Serial No. 124,803. PUBLISHED FEBRUARY 22, 1921.

143,393. LEAK-CURING COMPOUND FOR WATER-CIRCULATING SYSTEMS. MALCOMB & MALCOMB, Ashland, Ohio.
Filed April 26, 1920. Serial No. 131,644. PUBLISHED FEBRUARY 15, 1921.

143,394. EGG SUBSTITUTE FOR COOKING AND BAKING. JOHN VICTOR MALNIGHT, Jackson, Mich.
Filed April 2, 1918. Serial No. 109,922. PUBLISHED FEBRUARY 22, 1921.

143,395. WHEAT-FLOUR. WM. HANDLEY MANN, Memphis, Tenn.
Filed December 16, 1919. Serial No. 126,134. PUBLISHED MARCH 16, 1920.

143,396. BEEF, IRON, AND WINE TONIC. JOHN C. MAHONEY, Cincinnati, Ohio.
Filed September 24, 1920. Serial No. 137,586. PUBLISHED FEBRUARY 15, 1921.

143,397. COTTON-BATS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,274. PUBLISHED FEBRUARY 15, 1921.

143,398. SPARK-PLUGS. THE MICHIGAN SPARK PLUG CO., Detroit, Mich.
Filed December 13, 1919. Serial No. 125,962. PUBLISHED FEBRUARY 15, 1921.

143,399. WHEAT-FLOUR. MIDDLE STATES MILLING COMPANY, Tulsa, Okla.
Filed September 3, 1920. Serial No. 136,802. PUBLISHED FEBRUARY 15, 1921.

143,400. STOCK FEED. MILLER-MCCONNEL GRAIN CO., Kansas City, Kans.
Filed November 29, 1920. Serial No. 140,396. PUBLISHED FEBRUARY 8, 1921.

143,401. COTTON, SILK, LINEN, AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK PIECE GOODS. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed September 16, 1920. Serial No. 137,264. PUBLISHED FEBRUARY 15, 1921.

143,402. DETERGENT CAR-CLEANER, SOAP POWDER, POWDERED SOAP. THE MODOC COMPANY, Fernwood, Pa.
Filed April 9, 1919. Serial No. 117,301. PUBLISHED FEBRUARY 22, 1921.

143,403. CORN-FLOUR. WARNER MOORE & CO., Richmond, Va.
Filed November 5, 1920. Serial No. 139,218. PUBLISHED FEBRUARY 15, 1921.

143,404. FROZEN EGGS. MORRIS OYSON COMPANY, Chicago, Ill.
Filed August 30, 1920. Serial No. 136,637. PUBLISHED FEBRUARY 15, 1921.

143,405. SHOES OF LEATHER, FABRIC, AND COMBINATION. MORSE & BURT CO. INC., Brooklyn, N. Y.
Filed June 10, 1920. Serial No. 133,549. PUBLISHED FEBRUARY 15, 1921.

143,406. HAIR TONIC AND RESTORER. MARIE MOSCHENROSS, Oakland, Calif.
Filed July 30, 1920. Serial No. 135,610. PUBLISHED FEBRUARY 15, 1921.

143,407. SOAP. THE MU-COL COMPANY, Buffalo, N. Y.
Filed December 6, 1920. Serial No. 140,666. PUBLISHED FEBRUARY 15, 1921.

143,408. MEDICATED SOAPS AND SHAVING-SOAPS. MULHENS & KROPFF, INCORPORATED, New York, N. Y.
Filed July 29, 1920. Serial No. 135,564. PUBLISHED FEBRUARY 22, 1921.

143,409. CLEANING FLUID FOR PAINTED AND VARNISHED AUTOMOBILES, PIANOS, AND FURNITURE-SURFACES. CHARLES E. MURPHY, Chillicothe, Mo.
Filed September 20, 1920. Serial No. 137,383. PUBLISHED FEBRUARY 15, 1921.

143,410. WALL-BOARD AND ROOFING IN ROLLS AND ROOFING READY CUT FOR DIRECT APPLICATION. C. A. NASH & SON, INC., Norfolk, Va.
Filed August 25, 1920. Serial No. 136,484. PUBLISHED FEBRUARY 15, 1921.

143,411. A CERTAIN NAMED MEDICINAL PREPARATION. NATIONAL PHARMACY CO., Oakland, Calif.
Filed June 15, 1920. Serial No. 133,746. PUBLISHED FEBRUARY 22, 1921.

143,412. SOAPS. NEBLE & COMPANY, INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,801. PUBLISHED FEBRUARY 22, 1921.

143,413. WALL-PAPER. NEBRASKA WALL PAPER COMPANY, Omaha, Nebr.
Filed March 26, 1920. Serial No. 130,232. PUBLISHED FEBRUARY 22, 1921.

143,414. SIGNS MADE OF WOOD AND METAL. HENRY L. NIELSEN, New York, N. Y.
Filed June 11, 1920. Serial No. 133,587. PUBLISHED MARCH 1, 1921.

143,415. SILK THREAD, EMBROIDERY-THREAD, AND COTTONS. NONOTUCK SILK COMPANY, Florence, Mass.
Filed October 23, 1919. Serial No. 124,121. PUBLISHED FEBRUARY 15, 1921.

143,416. REFRIGERATORS AND COOLING-ROOMS. NORTHEY MANUFACTURING COMPANY, Waterloo, Iowa.
Filed June 19, 1920. Serial No. 133,930. PUBLISHED FEBRUARY 22, 1921.

143,417. HAIR-NETS. WALTER F. NORTON, New York, N. Y., assignor to The Crest Net Company, New York, N. Y., a Corporation of New York.
Filed September 18, 1920. Serial No. 137,330. PUBLISHED FEBRUARY 15, 1921.

143,418. GLASS JARS AND GLASS BOTTLES. PACIFIC COAST GLASS WORKS, San Francisco, Calif.
Filed July 14, 1919. Serial No. 120,553. PUBLISHED FEBRUARY 22, 1921.

143,419. PERFUMES, TOILET WATERS, TALCUM POWDERS, FACE-POWDERS, SACHET-POWDERS, AND FACE-CREAMS. PALMERS, LIMITED, Montreal, Quebec, Canada.
Filed July 27, 1920. Serial No. 135,451. PUBLISHED FEBRUARY 15, 1921.

143,420. AUTOMOBILES. SAMUEL C. PANDOLFO, St. Cloud, Minn.
Filed September 29, 1919. Serial No. 123,255. PUBLISHED FEBRUARY 15, 1921.

143,421. CERTAIN MACHINERY AND TOOLS. PANGBORN CORPORATION, Hagerstown, Md.
Filed May 15, 1920. Serial No. 132,482. PUBLISHED FEBRUARY 22, 1921.

143,422. SAFETY-PINS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed November 13, 1920. Serial No. 139,626. PUBLISHED FEBRUARY 15, 1921.

143,423. TOILET-PINS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed November 13, 1920. Serial No. 139,627. PUBLISHED FEBRUARY 15, 1921.

143,424. HAIRPINS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed November 19, 1920. Serial No. 139,869. PUBLISHED FEBRUARY 15, 1921.

143,425. SKIRT-BELTING. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed November 19, 1920. Serial No. 139,870. PUBLISHED FEBRUARY 15, 1921.

143,426. BARRETTES. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed December 9, 1920. Serial No. 140,846. PUBLISHED FEBRUARY 15, 1921.

143,427. MONTHLY TECHNICAL PUBLICATION. THE PENTON PUBLISHING COMPANY, Cleveland, Ohio.
Filed November 5, 1920. Serial No. 139,221. PUBLISHED FEBRUARY 15, 1921.

143,428. WATCHES, CLOCKS, CHRONOMETERS, WATCH CASES AND MOVEMENTS. PERLA WATCH CO. STRAUB & CO., Bienne, Switzerland.
Filed July 17, 1920. Serial No. 135,110. PUBLISHED FEBRUARY 15, 1921.

143,429. CERTAIN NAMED WATERPROOF AND FIREPROOF FABRICS, TABLE-MATS, ASBESTOS CLOTH, AND CARPET-LININGS. THE PHILIP CAREY MANUFACTURING COMPANY, Lockland, Ohio.
Filed June 5, 1920. Serial No. 133,328. PUBLISHED FEBRUARY 22, 1921.

143,430. FLOUR MADE FROM WHEAT. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed December 8, 1920. Serial No. 140,802. PUBLISHED FEBRUARY 22, 1921.

143,431. SOAP IN THE FORM OF A PASTE. POSEY & MEYER CO., Los Angeles, Calif.
Filed November 11, 1919. Serial No. 124,760. PUBLISHED FEBRUARY 22, 1921.

143,432. BUILDING BLOCKS AND SLABS MADE FROM STONE, ARTIFICIAL STONE, CONCRETE, AND SIMILAR MATERIAL. PRE-CAST PRODUCTS CO., Philadelphia, Pa.
Filed March 27, 1920. Serial No. 130,288. PUBLISHED FEBRUARY 22, 1921.

143,433. MEN'S AND BOYS' KNITTED UNDERWEAR IN ONE-PIECE GARMENTS. ROGERS PEET COMPANY, New York, N. Y.
Filed October 27, 1920. Serial No. 138,879. PUBLISHED FEBRUARY 15, 1921.

143,434. POULTRY AND STOCK MEDICINES. PURITAN PRODUCTS CO., Clinton, Ill.
Filed September 22, 1920. Serial No. 137,492. PUBLISHED FEBRUARY 15, 1921.

143,435. CERTAIN NAMED GLAZING, ROOFING, AND CALKING AND WATERPROOFING COMPOUNDS. THE QUALITY BRANDS COMPANY, Cleveland, Ohio.
Filed June 3, 1920. Serial No. 133,227. PUBLISHED AUGUST 24, 1920.

143,436. POCKET-KNIVES. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn.; Swanton, Vt., and Ilion and New York, N. Y.
Filed July 31, 1920. Serial No. 135,662. PUBLISHED FEBRUARY 22, 1921.

143,437. POCKET-KNIVES. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn.; Swanton, Vt., and Ilion and New York, N. Y.
Filed July 31, 1920. Serial No. 135,663. PUBLISHED FEBRUARY 22, 1921.

143,438. POCKET-KNIVES. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn.; Swanton, Vt., and Ilion and New York, N. Y.
Filed July 31, 1920. Serial No. 135,665. PUBLISHED FEBRUARY 22, 1921.

143,439. CERTAIN ARTICLES OF CLOTHING. THE RIALTO CLOTHING CO., INC., New York, N. Y.
Filed September 22, 1920. Serial No. 137,494. PUBLISHED FEBRUARY 15, 1921.

143,440. BRAIDS AND TRIMMINGS. A. H. RICE COMPANY, Pittsfield, Mass.
Filed December 22, 1920. Serial No. 141,436. PUBLISHED FEBRUARY 15, 1921.

143,441. EVAPORATED CREAM. RICO MILK PRODUCTS COMPANY, East Troy, Wis.
Filed June 1, 1920. Serial No. 133,165. PUBLISHED FEBRUARY 15, 1921.

143,442. NON-ALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SYRUP THEREFOR. WILLIAM H. RIDGAWAY, Baltimore, Md.
Filed December 9, 1920. Serial No. 140,848. PUBLISHED FEBRUARY 15, 1921.

143,443. MARMALADE. JAMES ROBERTSON & SONS, PRESERVE MANUFACTURERS, LIMITED, Paisley, Scotland.
Filed December 11, 1919. Serial No. 125,857. PUBLISHED FEBRUARY 22, 1921.

143,444. FINGER-NAIL POLISH IN LIQUID AND STICK FORM, TALCUM POWDER, TOILET WATER, AND PERFUMERY. ROELLY CHEMICAL CO., INC., New York, N. Y.
Filed July 14, 1919. Serial No. 120,554. PUBLISHED FEBRUARY 22, 1921.

143,445. SILK PIECE GOODS. A. S. ROSENTHAL CO., New York, N. Y.
Filed September 22, 1920. Serial No. 137,496. PUBLISHED FEBRUARY 15, 1921.

143,446. ELASTIC WEBBINGS, LADIES' DRESS BELTING, GARTERS, HOSE-SUPPORTERS, AND SUSPENDERS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,659. PUBLISHED DECEMBER 28, 1920.

143,447. ELASTIC WEBBINGS, GARTERS, HOSE-SUPPORTERS, AND SUSPENDERS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,661. PUBLISHED DECEMBER 28, 1920.

143,448. ELASTIC WEBBINGS, LADIES' DRESS-BELTING, GARTERS, SUSPENDERS, AND HOSE-SUPPORTERS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,664. PUBLISHED DECEMBER 28, 1920.

143,449. LADIES' DRESS-BELTING, ELASTIC WEBBINGS, AND SUSPENDERS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,655. PUBLISHED DECEMBER 28, 1920.

143,450. [WITHDRAWN.]

143,451. ELASTIC WEBBINGS AND LADIES' DRESS-BELTINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 28, 1920. Serial No. 131,749. PUBLISHED DECEMBER 28, 1920.

143,452. ELASTIC WEBBINGS AND LADIES' DRESS-BELTINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 28, 1920. Serial No. 131,750. PUBLISHED DECEMBER 28, 1920.

143,453. ELASTIC WEBBINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed May 17, 1920. Serial No. 132,561. PUBLISHED FEBRUARY 15, 1921.

143,454. CERTAIN NAMED BELTINGS, BRAKE-LININGS, ANTISQUEAK-WEBS, CLUTCH-FACINGS, AND CONE-FACINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed July 16, 1920. Serial No. 135,068. PUBLISHED FEBRUARY 15, 1921.

143,455. CIGARS. RUYERA LOPEZ CIGAR MFG. CO. INC., Philadelphia, Pa.
Filed July 17, 1920. Serial No. 135,111. PUBLISHED FEBRUARY 22, 1921.

143,456. CIGARETTES. JAMES MADISON PHILLIPS, Louisville, Ky.
Filed July 1, 1920. Serial No. 134,484. PUBLISHED FEBRUARY 15, 1921.

143,457. CERTAIN NAMED MEDICINAL PREPARATION. JOSEPH DI SALVO, Brooklyn, N. Y.
Filed July 16, 1920. Serial No. 135,077. PUBLISHED FEBRUARY 15, 1921.

143,458. AUTOMOBILES, MOTOR-TRUCKS, MOTOR-LORRIES, AND MOTOR-CARS. SAMSON TRACTOR COMPANY, Janesville, Wis.
Filed November 3, 1920. Serial No. 139,131. PUBLISHED FEBRUARY 15, 1921.

143,459. CIGARS, CHEWING-TOBACCO, STOGIES, SMALL CIGARS, AND SMOKING-TOBACCO. DAVE S. SAQUI, New York, N. Y.
Filed July 7, 1920. Serial No. 134,667. PUBLISHED FEBRUARY 22, 1921.

143,460. MEN'S SUITS. SCHLANG & CO., Brooklyn, N. Y.
Filed September 27, 1920. Serial No. 137,683. PUBLISHED FEBRUARY 15, 1921.

143,461. GINGER-ALE, SARSAPARILLA, BIRCH-BEER, AND SODA-WATER OF DIFFERENT FLAVORS. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed December 18, 1920. Serial No. 141,282. PUBLISHED FEBRUARY 15, 1921.

143,462. TICKING. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 25, 1920. Serial No. 137,642. PUBLISHED FEBRUARY 15, 1921.

143,463. WOOL-BATTING. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1921. Serial No. 142,729. PUBLISHED MARCH 1, 1921.

143,464. COMPOUND FOR TREATING DISEASES OF THE BLOOD, LIVER, AND LUNGS. CHARLIE C. SEAWRIGHT, South Pratt City, Ala.
Filed September 24, 1920. Serial No. 137,595. PUBLISHED FEBRUARY 15, 1921.

143,465. HAIR-TONIC, POMADE, AND COLD-CREAM. THE SEN-RAYTO CO., Cleveland, Ohio.
Filed September 20, 1920. Serial No. 137,390. PUBLISHED FEBRUARY 15, 1921.

143,466. CATARRHAL OIL. ALONZO L. SHARE, Kingfisher, Okla.
Filed September 16, 1920. Serial No. 137,274. PUBLISHED FEBRUARY 15, 1921.

143,467. CLEANING POWDER FOR GENERAL BUILDING AND HOUSE-CLEANING PURPOSES. LOUIS EDWARD SHORT, Indianapolis, Ind.
Filed August 30, 1919. Serial No. 122,192. PUBLISHED FEBRUARY 22, 1921.

143,468. CHILDREN'S OUTER CLOTHING—VIZ., GIRLS' ONE-PIECE DRESSES, GIRLS' OUTER COATS, AND GIRLS' HATS. HAZEL DRUKKER SILBERMAN, New York, N. Y.
Filed October 21, 1919. Serial No. 124,055. PUBLISHED FEBRUARY 15, 1921.

143,469. HAIR RESTORER AND SHAMPOO. THEODORE E. SILVERA, Philadelphia, Pa.
Filed September 21, 1920. Serial No. 137,431. PUBLISHED FEBRUARY 15, 1921.

143,470. BRIDLES, SADDLE-POCKETS, CHAPS, AND RIDING-SADDLES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed July 23, 1920. Serial No. 135,348. PUBLISHED FEBRUARY 22, 1921.

143,471. CANDIES OF VARIOUS KINDS AND ICE-CREAM. SIMMONS & HAMMOND MANUFACTURING COMPANY, Portland, Me.
Filed September 27, 1919. Serial No. 123,225. PUBLISHED FEBRUARY 22, 1921.

143,472. TRUCK-BODIES. THE SIMPLEX MANUFACTURING COMPANY, INC., Conneautville, Pa.
Filed November 5, 1920. Serial No. 139,227. PUBLISHED FEBRUARY 15, 1921.

143,473. CERTAIN NAMED WIRE FOR ELECTRICAL USE, INSULATION MATERIALS, AND PROTECTING INSULATING-COVERINGS FOR CONDUCTING-WIRE. SIMPLEX WIRE & CABLE COMPANY, Boston, Mass.
Filed October 20, 1920. Serial No. 138,603. PUBLISHED FEBRUARY 15, 1921.

143,474. POLISHES FOR ALL KINDS OF LEATHER ARTICLES, SUCH AS BOOTS, SHOES, HARNESSES. SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Montrouge, near Paris, France.
Filed October 1, 1919. Serial No. 123,322. PUBLISHED FEBRUARY 22, 1921.

143,475. CERTAIN MACHINERY AND TOOLS. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,504. PUBLISHED FEBRUARY 22, 1921.

143,476. MEDICINE FOR RHEUMATISM. JOSEPH SOROKOWSKI, Chicago, Ill.
Filed September 25, 1920. Serial No. 137,632. PUBLISHED FEBRUARY 15, 1921.

143,477. SELF-RISING WHEAT-FLOUR. SOUTHERN ILLINOIS MILLING & ELEVATOR CO., Murphysboro, Ill.
Filed September 2, 1920. Serial No. 136,772. PUBLISHED FEBRUARY 15, 1921.

143,478. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. GEORGE F. SPAETH, New York, N. Y.
Filed July 28, 1919. Serial No. 120,980. PUBLISHED FEBRUARY 22, 1921.

143,479. COTTON THREAD. CHARLES SPICEHANDLER, New York, N. Y.
Filed January 24, 1920. Serial No. 127,535. PUBLISHED FEBRUARY 22, 1921.

143,480. CERTAIN BATHROOM FIXTURES AND ACCESSORIES. GEORGE C. SQUIER, Springfield, Mass., assignor to Joseph A. Hoegger, Jersey City, N. J.
Filed November 1, 1919. Serial No. 124,449. PUBLISHED FEBRUARY 22, 1921.

143,481. COMPOUNDS FOR COOLING THE TOOLS OF METAL-CUTTING MACHINERY. STANDARD CHEMICAL CO., (now by change of name Eastbay Chemical Company,) Emeryville, Calif.
Filed November 26, 1919. Serial No. 125,344. PUBLISHED FEBRUARY 22, 1921.

143,482. CERTAIN NAMED STOVES AND HEATERS, LAMPS, LANTERNS, LAMP-BURNERS, CANDLE-HOLDERS, AND WICKS. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed August 17, 1920. Serial No. 136,210. PUBLISHED FEBRUARY 15, 1921.

143,483. COTTON PIECE GOODS. THE STANDARD TEXTILE PRODUCTS COMPANY, Youngstown, Ohio, and New York, N. Y.
Filed May 27, 1920. Serial No. 133,025. PUBLISHED FEBRUARY 22, 1921.

143,484. BRICKS AND BUILDING-BLOCKS. SUMMITVILLE CLAY PRODUCTS CO., Summitville, Ohio.
Filed October 15, 1920. Serial No. 138,358. PUBLISHED FEBRUARY 15, 1921.

143,485. STUCCO, COMPOSITION FLOORING, AND PLASTER. SUNDERLAND BROTHERS COMPANY, Omaha, Nebr.
Filed October 2, 1920. Serial No. 137,857. PUBLISHED FEBRUARY 15, 1921.

143,486. EGG-PRESERVING COMPOUND. S. & V. PRODUCTS CO., Chicago, Ill.
Filed June 21, 1920. Serial No. 133,986. PUBLISHED FEBRUARY 22, 1921.

143,487. FRESH EGGS. WILLIAM B. TAYLOR, Plympton, Mass.
Filed February 24, 1920. Serial No. 128,805. PUBLISHED MARCH 1, 1921.

143,488. WATERPROOF COTTON PIECE GOODS. TEXTILE SERVICE CO. INC., New York, N. Y.
Filed October 7, 1920. Serial No. 138,070. PUBLISHED FEBRUARY 15, 1921.

143,489. DYES. A. F. THANE & CO., San Francisco, Calif.
Filed October 5, 1920. Serial No. 137,975. PUBLISHED FEBRUARY 15, 1921.

143,490. SHOE-DRESSING. PETER THORESON, Baldi, Wash.
Filed August 6, 1920. Serial No. 135,877. PUBLISHED FEBRUARY 22, 1921.

143,491. WRITING-TABLETS. E. L. TICHENOR CO. INC., Middletown, N. Y.
Filed December 3, 1920. Serial No. 140,578. PUBLISHED FEBRUARY 22, 1921.

143,492. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF ST. VITUS'S DANCE. JULIA TOCKSTEIN, Chicago, Ill.
Filed June 24, 1920. Serial No. 134,156. PUBLISHED FEBRUARY 15, 1921.

143,493. CONSTRUCTION MATERIALS FOR FLOORS, WALLS, AND CEILINGS. THE TRAITEL MARBLE CO., New York, N. Y.
Filed September 25, 1920. Serial No. 137,646. PUBLISHED MARCH 8, 1921.

143,494. COMBS, PINCUSHIONS, AND SHOE-HORNS. TUSKELOID COMPANY, INC., New York, N. Y.
Filed December 6, 1920. Serial No. 140,691. PUBLISHED FEBRUARY 15, 1921.

143,495. CERTAIN NAMED YARNS AND THREADS. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,819. PUBLISHED MARCH 1, 1921.

143,496. POWDERED GRAPHITE. THE UNITED STATES GRAPHITE COMPANY, Saginaw, Mich.
Filed January 24, 1921. Serial No. 142,734. PUBLISHED MARCH 1, 1921.

143,497. TOILET WATER, POMADE, HAIR-TONIC, SHAMPOO, AND TALCUM POWDER. UNITED BARBER SERVICE CO., Baltimore, Md.
Filed June 9, 1920. Serial No. 133,505. PUBLISHED FEBRUARY 15, 1921.

143,498. CERTAIN NAMED CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. UNITED DRUG COMPANY, Boston, Mass.
Filed June 30, 1920. Serial No. 134,440. PUBLISHED FEBRUARY 22, 1921.

143,499. PLAYING-CARDS. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio.
Filed May 25, 1920. Serial No. 132,956. PUBLISHED FEBRUARY 22, 1921.

143,500. BURNER-TIPS FOR GAS-LAMPS. UNIVERSAL LAMP CO., Chicago, Ill., assignors to Universal Lamp Co., Chicago, Ill., a Corporation of Illinois.
Filed November 15, 1920. Serial No. 139,688. PUBLISHED FEBRUARY 15, 1921.

143,501. WHEAT-FLOUR. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y.
Filed September 21, 1920. Serial No. 137,435. PUBLISHED FEBRUARY 15, 1921.

143,502. HAIR-TONIC. LAURA M. VAETH, Cleveland, Ohio.
Filed April 22, 1920. Serial No. 131,513. PUBLISHED FEBRUARY 15, 1921.

143,503. ELECTRIC-LIGHTING FIXTURES. MITCHELL VANCE CO., INC., New York, N. Y.
Filed September 2, 1920. Serial No. 136,758. PUBLISHED FEBRUARY 15, 1921.

143,504. CARPET RENOVATOR AND CLEANER. SARAH E. VISONNEAU, San Francisco, Calif.
Filed December 8, 1920. Serial No. 140,820. PUBLISHED FEBRUARY 22, 1921.

143,505. CHILDREN'S DRESSES. WAGMAN & KATES, Philadelphia, Pa.
Filed September 20, 1920. Serial No. 137,399. PUBLISHED FEBRUARY 15, 1921.

143,506. CERTAIN NAMED PAPER. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,052. PUBLISHED FEBRUARY 22, 1921.

143,507. PIPE-FITTING TOOLS—VIZ., WRENCHES, PIPE-STOCKS, PIPE-DIES, PIPE-TAPS, AND PIPE-CUTTERS. WALWORTH MANUFACTURING COMPANY, Boston, Mass.
Filed February 10, 1920. Serial No. 128,259. PUBLISHED FEBRUARY 22, 1921.

143,508. SHOCK-ABSORBERS FOR VEHICLES. JOHN WARREN WATSON COMPANY, Philadelphia, Pa.
Filed August 21, 1920. Serial No. 136,344. PUBLISHED FEBRUARY 15, 1921.

143,509. CERTAIN NAMED PIECE GOODS. WEISSENBACH & KAY INC., New York, N. Y.
Filed August 9, 1919. Serial No. 121,506. PUBLISHED FEBRUARY 22, 1921.

143,510. TOOTH, HAIR, CLOTH, HAT, NAIL, HAND, AND FACE BRUSHES. WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill.
Filed July 28, 1920. Serial No. 135,534. PUBLISHED FEBRUARY 22, 1921.

143,511. NOTIONS—NAMELY, SNAP-FASTENERS. WESTERN DRY GOODS CO., Seattle, Wash.
Filed November 6, 1920. Serial No. 139,337. PUBLISHED FEBRUARY 15, 1921.

143,512. CERTAIN NAMED PACKING. THE WESTINGHOUSE AIR BRAKE CO., Wilmerding, Pa.
Filed November 24, 1920. Serial No. 140,156. PUBLISHED FEBRUARY 15, 1921.

143,513. TOYS—VIZ., SOAP-BUBBLE PIPES. WHIT MANUFACTURING COMPANY INC., Buffalo, N. Y.
Filed July 12, 1920. Serial No. 134,870. PUBLISHED FEBRUARY 15, 1921.

143,514. BUTTER. LOUIS WISANSKY, New York, N. Y.
Filed October 30, 1920. Serial No. 139,014. PUBLISHED FEBRUARY 15, 1921.

143,515. COFFEE. CHARLES F. WITT, Minneapolis, Minn.
Filed June 30, 1920. Serial No. 134,448. PUBLISHED FEBRUARY 22, 1921.

143,516. SHOE-POLISHES AND SHOE-DRESSING. GEO. W. WRENNICK, St. Petersburg, Fla.
Filed May 29, 1920. Serial No. 133,118. PUBLISHED FEBRUARY 22, 1921.

143,517. CERTAIN NAMED MEDICINAL PREPARATION. ZERBST PHARMACEUTICAL CO., St. Joseph, Mo.
Filed September 30, 1920. Serial No. 137,798. PUBLISHED FEBRUARY 15, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

MAY 31, 1921.

143,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTELLE IDLER, Atlantic City, N. J. Filed Dec. 21, 1920. Serial No. 141,373.

"Hairgro"

Particular description of goods.—Cream for the Scalp.
Claims use since on or about Feb. 20, 1919.

143,519. (CLASS 39. CLOTHING.) LOUIS GOLD, New York, N. Y. Filed Nov. 5, 1920. Serial No. 139,207.

Gold's

Particular description of goods.—Wraps, Suits, Dresses, Coats, Skirts, Waists, Petticoats, Sweaters, Bathing-Suits, and Bath-Robes.
Claims use since Oct. 10, 1907.

143,520. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MILLER MANUFACTURING COMPANY, Lincoln, Nebr. Filed Oct. 29, 1920. Serial No. 138,954.

ANTI-MOLE

Particular description of goods.—A Preparation for the Treatment and Removal of Warts and Moles.
Claims use since about Nov. 15, 1905.

143,521. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIRGINIA MOSLEY, Des Moines, Iowa. Filed Dec. 13, 1920. Serial No. 141,007.

THE
VIRGINIA MOSLEY
HAIR
PREPARATION

Particular description of goods.—Hair Preparations, Salve or Liquid; Hair-Tonic, Hair-Dyes.
Claims use since January, 1919.

143,522. (CLASS 39. CLOTHING.) F. A. PATRICK & Co., Duluth, Minn. Filed Jan. 5, 1921. Serial No. 141,878.

Patrick
DULUTH

Particular description of goods.—The Following Articles of Wearing-Apparel, Namely: Aprons, Bath-Robes, Bibs, Blouses, Booties, Rubber Boots, Leather Boots, Canvas Boots, Bustles, Fabric Capes, Fur Capes, Fabric Capes Lined with Fur, Rubber Caps, Leather Caps, Canvas Caps, Fur Caps, Woolen Caps, Cotton Caps, Silk Caps, Caps of Oiled Material, Caps of Waterproof Material, Rubber Coats, Leather Coats, Canvas Coats, Woolen Coats, Cotton Coats, Alpaca Coats, Silk Coats, Fur Coats, Fur-Lined Coats, Coats of Oiled Material, Coats of Waterproof Material, Chemises, Fabric Cloaks, Fur Cloaks, Fabric Cloaks Lined with Fur, Collars, Cuffs, Corset-Covers, Diapers, Dickeys; Men's, Women's, and Children's Drawers of Either Knitted or Textile Fabric; Dresses; Gloves of Either Rubber, Leather, or Fabric; Gowns; Men's, Women's, and Children's Hats of Either Straw, Felt, Cloth, Beaver, Canvas, Feathers, Rubber, or Leather; Hoods of Either Fabric, Rubber, or Straw; Men's, Women's, and Children's Hosiery of Either Rubber, Silk, Wool, Cotton, or Mercerized Fabric; Insoles, Jumpers; Jackets of Either Fur, Fabric, or Leather; Kimonos, Leggings of Either Leather or Fabric, Moccasins of Either Leather or Fabric, Hand-Muffs of Either Fabric or Fur, Ear-Muffs of Either Fabric or Fur, Mufflers, Boas of Either Feathers or Fur, Nightgowns, Overalls; Overcoats of Either Rubber, Leather, or Fabric; Overshoes of Either Rubber or Rubber and Cloth, Oxfords of Either Leather or Canvas, Pajamas, Pantaloons, Petticoats; Raincoats of Either Rubber, Cravenette, Rubber and Cloth, or Oiled Fabric;

Slickers, Robes of Either Fabric or Fur, Rubbers, Sacks, Dress Outer Shirts, Negligée Outer Shirts, Work Outer Shirts, Outer Skirts, Underskirts; Shoes of Either Leather, Canvas, Rubber, or Cloth; Sandals of Either Leather, Canvas, or Rubber; Slippers of Either Leather, Canvas, or Cloth; Toques of Either Feathers or Fabric, Sweaters, Ulsters of Either Fabric or Fur, Fur-Lined Ulsters; Men's, Women's, and Children's Undershirts of Either Knitted or Textile Fabric; Outer Vests, Undervests, Dress-Waists, Shirtwaists, Underwaists, Waistcoats, Leather Trousers, Rubber Trousers, Fabric Trousers, Trousers of Oiled Material, Trousers of Waterproof Material; Men's, Women's, and Children's Underwear of Either Knitted or Textile Fabric and Comprising Either One-Piece, Two-Piece, or Three-Piece Garments; Men's, Women's, and Children's Undersuits of Either Knitted or Textile Fabric and Comprising Either One-Piece, Two-Piece, or Three-Piece Garments; Men's, Women's, and Children's Outer Suits; Children's Romper-Suits, Neckties, Scarfs for Personal Wear, Bust-Forms; Half-Sleeves, Hose-Supporters, Suspenders, and Belts for Personal Wear.

Claims use since Apr. 2, 1910.

143,523. (CLASS 15. OILS AND GREASES.) PUENTE OIL COMPANY, Los Angeles, Calif. Filed May 11, 1920. Serial No. 132,316.

GASOLINE WITH THE PUNCH

Particular description of goods.—Gasolene.
Claims use since July, 1916.

143,524. (CLASS 39. CLOTHING.) SAMUEL S. SIMON COMPANY, INC., Chicago, Ill. Filed Nov. 17, 1920. Serial No. 139,759.

EXTRA WEAR

Particular description of goods.—Trousers, Suits, and Overcoats for Men and Boys.
Claims use since Jan. 1, 1920.

143,525. (CLASS 39. CLOTHING.) JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Oct. 9, 1920. Serial No. 138,147.

TRADE MARK
JOHN B STETSON CO
PHILADELPHIA
XXXX BEAVER

Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since 1913.

143,526. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed Feb. 15, 1921. Serial No. 143,627.

ROAD RACER

The words "Road Racer."
Particular description of goods.—Vehicle-Tires Made of Rubber.
Claims use since May, 1916.

143,527. (CLASS 39. CLOTHING.) WARREN & CAMPBELL, New York, N. Y. Filed June 9, 1920. Serial No. 133,509.

WARREN

Particular description of goods.—Men's and Boys' Hats and Caps.
Claims use since about Mar. 25, 1920.

LABELS

REGISTERED MAY 31, 1921.

22,943.—*Title:* "DELTANUT." (For Candy—Namely, Nut-Candy.) A. G. ABRAHAM COMPANY, Moline, Ill. Filed October 13, 1920.

22,944.—*Title:* "A·G·S·" (For Coffee.) AMERICAN GROCERS SOCIETY, INC., Newark, N. J. Filed February 8, 1921.

22,945.—*Title:* "ANDEE'S BED BUG AND ROACH KILLER." (For Insecticides.) HARRY ANDEE, Cleveland, Ohio. Filed December 14, 1920.

22,946.—*Title:* "AUERBACH." (For Chocolate Candy.) D. AUERBACH & SONS, New York, N. Y. Filed October 27, 1921.

22,947.—*Title:* "NORTHERN OHIO WOOLWARE." (For Wool Robes and Wool Shawls.) THE BECKMAN COMPANY, Cleveland, Ohio. Filed July 24, 1920.

22,948.—*Title:* "WESTERNAIRE." (For Canned Fruits, Vegetables, and Fish, Cane and Maple Syrups for Foods, Molasses, Strained Honey, Apple-Butter, Fruit Jams, Pork and Beans, Coffee, and Ready-Mixed Paints.) THE BON I. LOOK STORES COMPANY, Denver, Colo. Filed November 15, 1919.

22,949.—*Title:* "YOU MUST BE SATISFIED." (For Dried Fruits, Hominy-Grits, Chilli-Pods, Cocoa, Sugar, Tea, Spices, Cocoanut, Beans, Rice, Rolled Oats, Chocolate, Sago, Coffee, Tapioca, Barley, Sal-Soda, Sulfur, Gloss-Starch, and Blue Vitriol.) THE BON I. LOOK STORES COMPANY, Denver, Colo. Filed July 21, 1920.

22,950.—*Title:* "KOFF-NO-MOR." (For a Remedy for Coughs, Colds, &c.) HAROLD C. BUCHERT, Springfield, Ohio. Filed May 12, 1920.

22,951.—*Title:* "TOOTH PICK." (For Tobacco.) CHRISTIAN PEPER TOBACCO CO., St. Louis, Mo. Filed January 3, 1921.

22,952.—*Title:* "CONCENTRATED SUNRIPE LEMON JUICE." (For Containers of Lemon-Juice or Wrappers Thereof.) WALTER G. CLARK, New York, N. Y. Filed December 20, 1920.

22,953.—*Title:* "CONCENTRATED SUNRIPE ORANGE JUICE." (For Containers of Orange-Juice or Wrappers Thereof.) WALTER G. CLARK, New York, N. Y. Filed December 20, 1920.

22,954.—*Title:* "SMITH'S PRESCRIPTION #711." (For a Medicinal Preparation for the Treatment of Bladder, Kidney, and Allied Troubles and Genital Affections.) COLUMBUS CHEMICAL COMPANY, Columbus, Ga. Filed November 11, 1920.

22,955.—*Title:* "DENEBRINK'S CUBAN ROSE." (For Cigars.) B. T. DENEBRINK, Sheridan, Wyo. Filed June 24, 1914.

22,956.—*Title:* "COLONIAL." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed April 26, 1920.

22,957.—*Title:* "JAPANESE CREPE." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed April 26, 1920.

22,958.—*Title:* "QUALITY." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed July 13, 1920.

22,959.—*Title:* "SNOWFLAKE CREPE." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed July 13, 1920.

22,960.—*Title:* "BAKER'S COCONUT." (For Packaged Cocoanut.) THE FRANKLIN BAKER COMPANY, Philadelphia, Pa. Filed December 27, 1920.

22,961.—*Title:* "RED SEAL BRAND." (For Malt-Extract Syrup.) EDW. GOLDSCHMIDT & LOUIS LEHMAN, Brooklyn, N. Y. Filed September 3, 1920.

22,962.—*Title:* "ZEM-ZEM." (For Non-Alcoholic Beverages.) GRAY-JURGENS CO., Cincinnati, Ohio. Filed November 6, 1920.

22,963.—*Title:* "B. HELLER & CO'S HOG-SCALD." (For Cans Containing a Preparation Used for Scalding and Cleaning Hogs.) B. HELLER & CO., Chicago, Ill. Filed February 4, 1921.

22,964.—*Title:* "ZANZIBAR-CARBON BRAND CASING YELLOW MIXTURE." (For Cans Containing a Preparation for Coloring the Outside of Liver-Sausage Casings.) B. HELLER & CO., Chicago, Ill. Filed February 4, 1921.

22,965.—*Title:* "ZANZIBAR-CARBON BRAND CASING BROWN MIXTURE." (For a Preparation for Coloring the Outside of Smoked-Sausage Casings.) B. HELLER & CO., Chicago, Ill. Filed February 4, 1921.

22,966.—*Title:* "B. HELLER & CO'S LARD PURIFIER." (For Cartons Containing B. Heller & Co.'s Lard and Tallow Purifier.) B. HELLER & CO., Chicago, Ill. Filed February 4, 1921.

22,967.—*Title:* "Y·D·C·" (For Yarn.) ABRAHAM HYMES, New York, N. Y. Filed November 17, 1920.

22,968.—*Title:* "ATROPADINE." (For a Preparation for the Treatment of Chronic Rheumatism, Lymphatic Enlargements, Burns, Lumbago, Frost-Bites, Sprains, Eczema, and Sciatica.) ILARIA BROS., Newark, N. J. Filed August 30, 1920.

22,969.—*Title:* "MAD." (For Nail-Polish.) FRANK C. IRISH, New York, N. Y. Filed October 16, 1920.

22,970.—*Title:* "KRAFT'S KOLD KAPSULES." (For Packages Containing a Remedy for Colds and La Grippe.) H. E. KRAFT, Milwaukee, Wis. Filed November 10, 1920.

22,971.—*Title:* "ROOSTER BRAND." (For Coffee.) ROSCOE S. LINTON, Joplin, Mo. Filed August 19, 1919.

22,972.—*Title:* "LITTLE CROW PANCAKE FLOUR." (For Prepared Flour.) LITTLE CROW MILLING CO., Warsaw, Ind. Filed October 25, 1920.

22,973.—*Title:* "LIVER-SULES." (For Bottles or Boxes Containing a Medicine for the Liver.) THE LIVER-SULE CO., Columbus, Ga. Filed November 22, 1920.

22,974.—*Title:* "GARDINER'S ICE CREAM 'DE LUXE.'" (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to City Dairy Company, Baltimore, Md. Filed June 17, 1920.

22,975.—*Title:* "GARDINER'S 'PURITY' ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to City Dairy Company, Baltimore, Md. Filed June 17, 1920.

22,976.—*Title:* "UNKIST HONEY." (For Honey.) JOHN C. MCCURBIN, Fresno, Calif. Filed September 7, 1920.

22,977.—*Title:* "VENUS CHOCOLATES." (For Boxes Containing Chocolate Brazil Nuts.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 29, 1920.

22,978.—*Title:* "U-NO-ME." (For Cigars and Boxes Containing Same.) VICTOR MOREAU, New Orleans, La. Filed September 7, 1920.

22,979.—*Title:* "RENUZIT." (For Containers Containing Furniture Cleaner and Dressing.) PENINSULAR CHEMICAL CO., Seattle, Wash. Filed September 20, 1920.

22,980.—*Title:* "A B C." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed February 9, 1921.

22,981.—*Title:* "IDEAL." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed February 9, 1921.

22,982.—*Title:* "A WAX FOR DANCING FLOORS ONLY." (For Packages Containing a Composition Specially Adapted for Floors.) JOSEPH P. STEIDLE, Wilkes-Barre, Pa. Filed October 30, 1920.

22,983.—*Title:* "2 IN 1 MALT EXTRACT." (For Cans Containing Malt Extract.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed October 30, 1920.

22,984.—*Title:* "ALL IN ONE MALT EXTRACT." (For Cans Containing Malt Extract.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed October 30, 1920.

22,985.—*Title:* "4 IN 1 MALT EXTRACT." (For Cans Containing Malt Extract.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed October 30, 1920.

22,986.—*Title:* "GOLD MEDAL MALT EXTRACT." (For Cans Containing Malt Extract, Hops Extract, and Sugar.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed October 30, 1920.

22,987.—*Title:* "BLUE RAVEN MALT EXTRACT." (For Cans Containing Malt Extract.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed May 20, 1920.

22,988.—*Title:* "OUR OLD MONASTERY MALT EXTRACT." (For Cans Containing Malt Extract.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed May 20, 1920.

22,989.—*Title:* "VIALUX." (For a Line of Street-Lighting Units.) ARTHUR J. SWEET, Milwaukee, Wis. Filed December 31, 1920.

22,990.—*Title:* "VI-TONE." (For a Liquid Medicinal Compound for Nervous and Kindred Diseases.) VI-TONE PRODUCTS CO., Albany, N. Y. Filed July 21, 1920.

22,991.—*Title:* "OREGON CHERRIES." (For Chocolate-Covered Cherries.) VOGAN CANDY COMPANY, Portland, Oreg. Filed December 30, 1920.

PRINTS

REGISTERED MAY 31, 1921.

5,604.—*Title:* "HERE IS SOMETHING NEW VIRGINIES." (For Advertising Canned Meat-Patties.) ACME PACKING CO., Chicago, Ill. Filed August 20, 1920.

5,605.—*Title:* "HERE'S THE PERFECTION OF CORNED BEEF." (For Advertising Canned Corned Beef.) ACME PACKING CO., Chicago, Ill. Filed August 20, 1920.

5,606.—*Title:* "SENTRY-UNIFORM SLIDE EASY HAIR CURLERS." (For Advertising Purposes for Hair-Curlers.) J. GOLDSMITH, Jr., Providence, R. I. Filed December 9, 1920.

5,607.—*Title:* "THE SENTRY-UNIFORM HAIR BOW FASTENER." (For Advertising Purposes for Hair-Bow Fasteners.) J. GOLDSMITH, Jr., Providence, R. I. Filed December 9, 1920.

5,608.—*Title:* "THE HAYNES SPECIAL SPEEDSTER." For Advertising Purposes for Automobiles.) HAYNES AUTOMOBILE CO., Kokomo, Ind. Filed June 28, 1920.

5,609.—*Title:* "THE NEW SERIES HAYNES TOURISTER". (For Advertising Purposes for Automobiles.) HAYNES AUTOMOBILE CO., Kokomo, Ind. Filed June 28, 1920.

5,610.—*Title:* "TRUTH IN ADVERTISING." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed July 30, 1920.

5,611.—*Title:* "HAYNES 1921 CLOSED CARS." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed December 6, 1920.

5,612.—*Title:* "HEINZ VINEGARS PINTS, QUARTS, HALF GALLONS, PERFECT SALAD DRESSING AND HEINZ VINEGARS GO TOGETHER." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. HEINZ Co., Pittsburgh, Pa. Filed December 4, 1920.

5,613.—*Title:* "HEINZ OVEN BAKED BEANS, FOODS THAT TASTE GOOD—FOODS THAT DO YOU GOOD." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. HEINZ Co., Pittsburgh, Pa. Filed December 4, 1920.

5,614.—*Title:* "HEINZ OVEN BAKED BEANS THAT HEINZ BAKED BEANS ARE AS GOOD AS THEY ARE." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. HEINZ Co., Pittsburgh, Pa. Filed December 4, 1920.

5,615.—*Title:* "HOOD TIRES." (For Advertising Purposes for Motor-Vehicle Tires.) HOOD RUBBER COMPANY, Watertown, Mass. Filed November 19, 1920.

5,616.—*Title:* "EVERYONE A WINNER." (For Advertising Purposes for Hosiery.) KAISER & Co., New York, N. Y. Filed November 11, 1920.

5,617.—*Title:* "HIS MASTER'S CHOICE." (For Advertising Purposes for Cigars.) GEORGE KELLY, Columbus, Ohio. Filed February 5, 1920.

5,618.—*Title:* "CHOCOLATE CREAM." (For Coffee.) WESTERN GROCER Co., Marshalltown, Iowa. Filed June 29, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BALL *v.* BARNHURST *et al.*

Decided February 7, 1921.

1. PATENTS—EVIDENCE—ADMISSION BY FORMER ATTORNEY PERSUASIVE AGAINST CLIENT.
An admission in an interference proceeding that the adversary's exhibit illustrated the subject-matter of the issue, made by a former attorney, if not conclusively binding upon the client, is very persuasive in determining whether the Commissioner's decision that the adversary had disclosed the invention in issue should be affirmed.

2. SAME—CONCURRENT FINDING OF OFFICE TRIBUNALS NOT REVERSED UNLESS MANIFESTLY WRONG.
Where the three tribunals of the Patent Office are in accord upon a question of fact, the Commissioner's decision will not be disturbed on appeal unless it is clearly wrong.

3. SAME—INTERFERENCE—FAILURE TO FILE MOTION TO DISSOLVE—RIGHT TO ARGUE AT FINAL HEARING RIGHT TO MAKE CLAIMS.
Where a party to interference proceedings did not file a motion to dissolve in accordance with Rule 122, he is not entitled, under Rule 130, to contend that his adversary cannot make the claims, unless he shows good reasons why he failed to file a motion.

4. SAME—RELIANCE ON OTHER GROUND HELD NOT EXCUSE FOR FAILURE TO MOVE TO DISSOLVE.
Reliance by a party in interference proceedings on estoppel of his adversary, under a prior decision of the appellate court, which was subsequently reversed by the Supreme Court, does not excuse failure to move to dissolve the interference proceedings because the adversary is not entitled to make the claims.

Mr. Paul Synnestvedt and *Mr. H. L. Lechner* for Ball.

Mr. Dean S. Edmonds for Barnhurst *et al.*

SMYTH, *C. J.:*

This interference relates to an apparatus for burning pulverized fuel in boiler-furnaces. Ball is the senior party, having filed in August, 1913, while the appellees, whom we shall refer to herein as Barnhurst, did not file until March, 1914. A patent issued to Ball while the applications were copending. Ball took no testimony and is therefore restricted to his filing date. The three tribunals of the Patent Office concurred in holding that Barnhurst conceived the invention as early as July, 1913. It was stipulated by the parties that there was no lack of diligence on his part between that date and the date on which he filed his application. Consequently he was awarded priority.

Ball planted his case before the Examiner of Interferences and the Examiners-in-Chief on the assumption that Barnhurst, not having made his claims in time, was estopped under the ruling in *Wintroath* v. *Chapman*, (47 App. D. C., 428; 252 U. S., 126.) The first tribunal held against him but was reversed by the second one. When the matter came before the Commissioner on appeal he withheld action until the Supreme Court of the United States disposed of the Wintroath case. That case was reversed and thereby the basis for Ball's argument that Barnhurst was estopped was removed.

Ball then took the position that Barnhurst had not disclosed the invention in issue. The Commissioner pointed out that Ball in his brief before the Examiner of Interferences admitted that Barnhurst's Exhibit 4 which was made prior to Ball's filing date, illustrated "the subject-matter of the issue." Ball does not deny the admission, but says it was made by a former attorney, and that he should not be bound by it. Even if we should hold that it was not conclusively binding upon him, we think it must be treated as very persuasive in determining whether or not we should reverse the Office. It indicates at least that one of Barnhurst's attorneys is in harmony with the decision of the three tribunals of the Patent Office. The Commissioner held that Barnhurst's Exhibit 4 did disclose the invention, and, Ball's other contentions being out of the way, awarded Barnhurst priority.

We have repeatedly ruled that where, as here, the three tribunals of the Patent Office are in accord upon a question of fact, we will not disturb the Commissioner's decision unless it is clearly wrong, (*Hopkins* v. *Riegger*, 49 App. D. C., 188; *Greenawalt* v. *Dwight*, 49 App. D. C., 82,) which it is not in this case.

Furthermore, the argument now made on behalf of Ball is to the effect that Barnhurst cannot make the claims. Ball did not file a motion to dissolve in accordance with Rule 122, and where this is not done, Rule 130 says that a party shall not be entitled to raise the question unless he shows good reasons why he failed to file a motion. He says he relied on the ruling in *Wintroath* v. *Chapman* to defeat his opponent; but the fact that he might have great confidence in the strength of one point is no excuse for failing to raise all points available to him. This is the only excuse he offers for his default, but it is not sufficient. His contention could

have been rejected on that ground, but the Commissioner saw fit to rule upon it, and we are satisfied with his decision.

Affirmed.

Court of Appeals of the District of Columbia.

LAUGHLIN v. BURRY.

Decided February 7, 1921.

1. PATENTS—DISCLOSURE BY JUNIOR PARTY TO SENIOR PARTY.

In an interference proceeding in the Patent Office involving an invention relating to side bearings for railroad-cars evidence *Held* to show that the junior party disclosed the invention to the senior party in connection with negotiations with the senior party's employer and subsequent assignee.

2. SAME—PARTY DISCLOSING GENERIC IDEA ENTITLED TO GENERIC CLAIMS.

Where the junior party to an interference proceeding involving side bearings for railroad-cars had disclosed to the senior party an embodiment of the generic claims of the issue, he was entitled to the broad generic claims and not limited to any specific form or arrangement.

3. SAME—CONCEPTION BY EMPLOYER AND DISCLOSURE TO EMPLOYEE—EMPLOYER ENTITLED TO RESULT.

Where one conceives an invention and employs another to work out the details of the general conception, the result belongs to the employer.

4. SAME—INVENTOR BY OBTAINING LICENSE FROM PATENTEE NOT ESTOPPED TO ASSERT RIGHTS.

Where a party to an interference proceeding, before the corporation of which he was president obtained a license to manufacture the device covered by the other party's patent, had taken steps to apply for a patent, the license did not estop him from claiming the invention, but was justifiable for the protection of his interests.

5. SAME—CONCURRENT DECISIONS IN FAVOR OF SAME PARTY NOT CONCLUSIVE WHEN NOT CONCURRING ON FACTS OR CONCLUSIONS.

The rule that the court will hesitate to disturb concurrent decisions of the Patent Office does not apply where they did not agree on the facts or the conclusions to be drawn therefrom, though all awarded priority to the same party.

6. SAME—DELAY IN APPLYING FOR PATENT UNTIL AFTER GRANT TO ANOTHER HELD TO CREATE NO UNFAVORABLE PRESUMPTION.

The delay of an inventor in applying for a patent until four months after the issue of the patent to another claimant of the invention created no presumption in favor of the patentee where the delay was due to an informal arrangement with the patentee's employer for joint ownership and as soon as it became apparent that the employer would not carry out the agreement he took steps to protect his rights and applied for a patent.

Mr. J. R. H. Potts and *Mr. B. G. Richards* for Laughlin.

Mr. R. D. Totten for Burry.

VAN ORSDELL, *J.*:

This appeal is from the decision of the Commissioner of Patents awarding priority of invention to appellee Burry for an invention relating to side bearings for railway-cars. The issue is in seven counts, of which the following are illustrative:

1. A bearing device comprising upper and lower housings or bearing plates vertically movable the one with relation to the other and having plain bearing faces, a plurality of rollers interposed between said plates and means on said plates and said rollers to maintain the rollers constantly spaced at the same distance apart and constantly centered with respect to the application of the load.

7. In a bearing device, the combination with upper and lower bearing plates vertically movable the one with relation to the other and having plain bearing faces forming runways and each having a slot arranged in a vertical plane, a pair of bearing rollers interposed between said bearing plates, said rollers being provided at the end with one or more lugs adapted to engage said slots, said slots being so formed as not to interfere with the rotation of said rollers, but to guide the same to centered position beneath the point of application of the load at all times, and also to maintain the rollers in substantially centered position when the car is tilted and the rollers are out of engagement with one or the other of said upper and lower bearing members.

The invention is described in the opinion of the Examiners-in-Chief as follows:

The invention relates to side bearings for railway cars and consists essentially in the provision of rollers having plain bearing faces, located between housing parts on the under side of the car body and upper side of the track, respectively, the rollers being provided with laterally extending trunnions which engage race-ways in side extensions of the housing. The race-ways are designed to cooperate with the trunnions to permit the lifting of the car body, as in rounding a curve, while at the same time maintaining the rollers properly spaced apart and centered with respect to the load.

The case turns largely upon the question of originality. Appellant Laughlin in November, 1914, was president of the Joliet Railway Supply Company of Chicago. He was thirty-five years old, and had been engaged for sixteen years in the manufacture and sale of railway supplies. He has obtained six patents on side bearings which have been in general use. Laughlin conceived the idea of inventing a car-mounting in which the load would be carried on side bearings. This he termed the side-bearing truck, as distinguished from a side bearing which only bears the load in emergencies. Laughlin took up the matter of the invention with Turner, superintendent of motive power for the Pittsburgh & Lake Erie Railroad Company, with headquarters at Pittsburgh. Turner appears here as the assignee of the Burry patent. Laughlin and Turner were on intimate business terms, growing out of the use of Laughlin's bearings by the Pittsburgh & Lake Erie Railroad.

Upon the invitation of Laughlin, Turner made a trip to Laughlin's home at Oregon, Ill., where the details of the present invention were discussed and an oral agreement entered into between Laughlin and Turner that they would share equally in the invention. It was then that Turner suggested to Laughlin that he had a young man by the name of Burry working under him as chief draftsman in the mechanical department of the Pittsburgh & Lake Erie Railroad, who could render valuable assistance in working out the details of the invention. As a result of this suggestion, Burry went to Chicago, and Laughlin laid before him his plans for developing the invention. Burry returned to Pittsburgh with Laughlin's drawings and certain models which Laughlin had prepared. Later, when Burry reached a point where he needed further assistance, he made a trip to Laughlin's home, where he spent several days with Laughlin in working upon the details of the invention. Burry returned to Pittsburgh, where bearings were constructed and placed upon the cars of the Pittsburgh & Lake Erie Railroad Company and tested out, which test demonstrated the complete success of the invention. Burry made application for a patent February 17, 1916, and a patent was issued thereon July 18, 1916.

When Laughlin began pressing Turner for a written contract setting forth their agreement as joint owners of the invention, his suspicions were first aroused that Turner was planning to appropriate the invention to his own benefit. It was then that he made application for the patent, which resulted in the present interference. The evidence in the case is somewhat complicated, but depends largely upon a long series of correspondence between Laughlin, Turner and Burry, which overwhelmingly establishes the contract between Turner and Laughlin and the fact that Burry was called in merely as an employee to help work out the details of the invention.

That Laughlin disclosed the invention to Burry at the meeting in Chicago, we think is clear. Blue-Print Exhibit 6, which Laughlin gave to Burry, disclosed all the elements of the issue, except that the lower surfaces of the rockers are shown to have teeth, whereas the issue calls for plain surfaces, both above and below. However, model rockers (Laughlin's Exhibits 1, 2 and 3), which Burry admits were explained to him in connection with Exhibit 6, show a plain surface at the top, the teeth at the bottom being removable, which would suggest the use of a smooth surface. This strongly corroborates Laughlin's testimony that they were so constructed in order that they could be tested both ways, and his testimony is to the effect that they were so tested. It is also significant that these rockers were provided with lugs or trunnions to cooperate with the side guides to prevent displacement.

Laughlin also testified that the use of the smooth surface was discussed at his meeting with Burry. While Burry denies this, it is inconceivable that Laughlin should have explained to Burry the rockers with removable teeth in connection with Exhibit 6, and made no reference to their use without the teeth. That this feature was discussed by them, as Laughlin testifies, is emphasized by the fact that Burry returned to Pittsburgh and immediately set about to work out the details of the invention with plain-surface bearings. It is also significant that Burry, in his preliminary statement, alleges that he conceived the invention in issue the first week in January, 1916, or a little over a week after the Chicago meeting, although admitting under oath that he had never invented anything before or since. All the circumstances corroborate Laughlin and refute Burry. It must also be remembered that the relation of employer and employee having been established, the burden shifts heavily upon Burry. (*Gedge* v. *Cromwell*, 19 App. D. C., 192; *Miller* v. *Kelly*, 18 App. D. C., 163.)

It is true that Laughlin's original conception, as disclosed by Burry, showed a slightly different arrangement of the side trunnions from that disclosed by Burry in his application for patent. But the issues broadly cover—

means on said plates and said rollers to maintain the rollers constantly spaced at the same distance apart and constantly centered with respect to the application of the load.

It is clear that Laughlin disclosed to Burry an embodiment of the generic claims of the issue. He is not, therefore, limited to any specific form or arrangement, but is entitled to the broad generic claims.

It is well settled that where one conceives an invention and employs another to work out the details of the general conception, the result belongs to the employer. (*Milton* v. *Kingsley*, 7 App. D. C., 531, 537; *Miller* v. *Kelly*, 18 App. D. C., 163, 170; *Gedge* v. *Cromwell*, 19 App. D. C., 192, 198; *Gallagher* v. *Hastings*, 21 App. D. C., 88, 99; *Flather* v. *Weber*, 21 App. D. C., 179; *Kreag* v. *Geen*, 28 App. D. C., 437.) In the Kreag case the court announced the rule as follows:

The relation of employer and employee once established, the law is well settled that when one conceives the principle or plan of an invention, and employs another to perfect the details and realize his conception, though the latter may make valuable improvements therein, such improved result belongs to the employer.

Much is attempted to be made of a license to manufacture the Burry bearing granted to Laughlin-Clark & Company on November 23, 1916. Laughlin was president of this corporation, and it is claimed that, in the light of this transaction, he is estopped from claiming the invention. It is not clear how the contract between Turner and Burry and this corporation can estop Laughlin from contesting Burry's right to the patent, especially in the light of the facts disclosed by the record. Laughlin filed his application four days after this contract was made. We may assume that the application had been in the hands of his attorneys at least since his discovery of Turner's duplicity, which date is fixed by a letter sent by Laughlin to Turner October 5, 1916, in which he states:

Your favor of the 3rd forwarded to me here, and I thank you for your frankness. I evidently have misunderstood the situation. It was always my understanding that whatever was developed in the way of a truck, from my suggestions to you and Mr. Burry, and whatever I developed from your suggestions, was to be "joint property," as between you and me. You have my written word to this effect.

Laughlin had already taken steps to protect his rights, and the contract thereafter entered into by the corporation in which he was interested could not be taken as an admission that he had no claim to the invention. This court, in *Winslow* v. *Austin*, (14 App. D. C., 137, 143,) considering the effect of an assignment of an interest in the Winslow patent to Austin, said:

On this state of the case, the Board of Examiners-in-Chief, on appeal to them, and the Commissioner of Patents, on appeal to him, appear to have had no difficulty in reaching the conclusion that Austin had fully made out his claim to priority of invention, and he was accordingly awarded such priority. The conclusion of the Examiner of Interferences was in favor of Winslow, but his conclusion was largely based upon the *prima facie* effect secured to Winslow by his position of senior party upon the record, and upon the fact of the assignment taken by Austin from Licht & Keeney of interest in the Winslow patent. And there is unquestionably considerable force in this latter fact. But this fact, we think, ought not to be taken as an admission on the part of Austin that he in reality and truth had no claim to the invention involved in the present issue, and that the sole and exclusive right as in-

ventor was in Winslow. As very properly said by the Examiner-in-Chief, he may have obtained the assignment as an easy way to quiet a contest, or in order to combine in himself all adverse claims to the contested invention.

It will be observed that, even if Laughlin had personally accepted a license under the Burry patent, it would only bring him squarely within the Winslow case. But the license was granted to a corporation in which Laughlin was interested, and the negotiations, as shown by the record, were carried on entirely by Clark, its vice-president. However, as in the Austin case, any interest that Laughlin may have acquired through this transaction was justifiable, inasmuch as he had the right to protect his interests by acquiring use of the patent to any extent that he might desire.

This is not a case where the court will hesitate to disturb the concurrent decisions of the Patent Office, since no two of them agree either upon the facts or the conclusions to be drawn therefrom. The Examiner of Interferences found that the distinguishing feature of the issue consists of—

bearing-plates vertically movable, the one with relation to the other, and having plain bearing surfaces;

that Burry was not in the employ of Laughlin; that, when Burry visited Laughlin, the disclosures made by Laughlin all showed bearing-surfaces with teeth, and that Laughlin's knowledge of Burry's license arrangement with Laughlin-Clark & Company estopped him from claiming the invention.

The Board of Examiners-in-Chief held that Burry was in the employ of Laughlin; that Laughlin disclosed to Burry vertically-movable bearing plates, both with and without plain bearing-surfaces; that Laughlin was not estopped by the license to Laughlin-Clark & Company, but that the distinguishing feature of the invention resided in the specific arrangement of the side trunnions and raceways as shown by Burry, and that, on this point alone, Burry was entitled to prevail.

The Commissioner held that Laughlin disclosed nothing to Burry that did not belong to the prior art; hence it was immaterial whether Burry was in Laughlin's employ or not; and that Laughlin's actions, after he discovered Burry had applied for a patent, were inconsistent with the claim of the existence of a fiduciary relation between them.

The delay of Laughlin in applying for a patent after Burry's patent was issued creates no presumption in Burry's favor or against Laughlin, since the correspondence discloses clearly that Laughlin was relying upon Turner to enter into a formal contract in pursuance of the oral agreement originally made between them, and, as soon as it became apparent to Laughlin that Turner would not carry out his agreement, he took steps to protect his rights through an application for patent. In any event, his application was made four months after the issue of the Burry patent, and this, considering the negotiations he was carrying on with Turner, cannot be held to be an unreasonable delay. It was Laughlin's reliance upon his agreement with Turner and his fiduciary relation with Burry that lulled him into inactivity during the period when Burry was securing his patent. As soon as Laughlin discovered the scope of Burry's patent, he at once insisted upon his rights, both under his agreement with Turner, and by taking steps to assert his claims in the Patent Office. The conspiracy of Turner and Burry to repudiate their contract and to appropriate to themselves the whole benefit to be derived from this valuable invention, cannot be employed by them to the disadvantage of their victim.

The improvement involved, in view of the prior art, is a narrow one, and consists, in our opinion, of a combination of the features specified, only in conjunction with plain bearing-surfaces. This is emphasized from the rejection of the Burry application until he limited his claim to plain bearing-surfaces. The conclusion, therefore, is irresistible that the distinguishing feature of the issue consists in the vertically-movable bearing-plates with plain bearing-surfaces; that this was broadly disclosed to Burry at his first meeting with Laughlin, and that whatever Burry did was merely ancillary in specifically carrying into effect the generic disclosure of his employer.

The decision of the Commissioner of Patents is reversed.

Reversed.

Adverse Decisions in Interference.

PATENT No. 1,154,929.

On May 9, 1921, a decision was rendered that Oscar M. Leich and Charles E. Hague were not the first inventors of the subject-matter covered by claims 2, 7, 8, 10, 11, 22, 23, and 27 of their Patent No. 1,154,929, subject, "Signaling system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,306,380.

On May 24, 1921, a decision was rendered that Winthrop K. Howe was not the first inventor of the subject-matter covered by claims 1, 2, 6, 9, 10, 12, 13, and 15 of his Patent No. 1,306,380, subject, "Automatic train-control system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,316,563.

On May 10, 1921, a decision was rendered that Henry John Edwards was not the first inventor of the subject-matter covered by claims 1, 2, 3, 7, and 8 of his Patent No. 1,316,563, subject, "Universal joint," and no appeal having been taken within the time allowed such decision has become final.

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ALPHABETICAL LIST OF PATENTEES

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PATENTS WERE ISSUED DURING THE MONTH OF MAY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A/S Myrens Verksted. (See Elling, Jens W. A., assignor.)
Abbot, Charles G., Washington, D. C. Ordnance. No. 1,380,171; May 31; v. 286; p. 978.
Abbot, Charles G., Washington, D. C. Self-propelled projectile. No. 1,380,172; May 31; v. 286; p. 978.
Abbott, Adrian O., Jr. (See Holmes, R., and Abbott.)
Abbott, Scott M., Philadelphia, Pa. Adjustable bookmark. No. 1,380,031; May 31; v. 286; p. 951.
Abegg, Julius, West Hoboken, assignor to Gordon Pen Company, West New York, N. J. Stylographic pen. No. 1,379,602; May 31; v. 286; p. 871.
Abegg, Julius, assignor to Gordon Pen Company, West Hoboken, N. J. Stylographic pen. No. 1,379,603; May 31; v. 286; p. 871.
Abel, Arthur J., Brooklyn, N. Y. Attachment for internal-combustion engines. No. 1,380,173; May 31; v. 286; p. 978.
Åberg, Carl J., Stenstorp, Sweden. Machine for making macadamized roads. No. 1,377,302; May 10; v. 286; p. 232.
Abern, Halsey C., and F. J. Baivier, Racine, Wis. Side-draft eliminator. No. 1,379,074; May 24; v. 286; p. 696.
Abrahmsén, Carl H. V., Stockholm, Sweden. Apparatus for holding plates and the like during washing up and rinsing. No. 1,379,379; May 24; v. 286; p. 755.
Abram, Ira, Dugger, Ind. Means for building concrete structures. No. 1,376,911; May 3; v. 286; p. 101.
Abtmeyer, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Percolator. No. 1,379,671; May 31; v. 286; p. 883.
Acheson, Edward G., Jr., Niagara Falls, N. Y. Preparing graphitized vulcanized fiber. No. 1,379,155; May 24; v. 286; p. 712.
Acheson, Edward G., Jr., Niagara Falls, N. Y. Preparing graphitized vulcanized fiber. No. 1,379,156; May 24; v. 286; p. 712.
Ackerland, Joseph, assignor to G. M. Seemann, Minneapolis, Minn. Windshield-shade. No. 1,378,509; May 17; v. 286; p. 516.
Ackerland, Joseph, assignor to G. M. Seemann, Minneapolis, Minn. Windshield-shade. No. 1,378,510; May 17; v. 286; p. 516.
Adam Hilger Limited. (See Twyman, F., and Wilson, assignors.)
Adam, Matthew A., J. Stevenson, and A. T. Mabbitt, London, England; said Stevenson and said Mabbitt assignors to said Adam. Detinning of tinned iron-scrap. No. 1,379,237; May 24; v. 286; v. 727.
Adams, Arthur J., assignor to The Fulton Company, Bay City, Mich. Perambulator. No. 1,379,295; May 24; v. 286; p. 738.
Adams, Ellis E. and E. C. Bennett, Roanoke, Va. Automatic train-stop. No. 1,377,955; May 10; v. 286; p. 359.
Adams, James R., Roanoke, Va. Lock for motor-vehicles. No. 1,378,308; May 17; v. 286; p. 477.
Adams-Williams Mfg. Corporation. (See Cunningham, William C., assignor.)
Adams-Williams Manufacturing Corporation. (See Williams, Charles D., assignor.)
Adamson, Allan A. (See Grupe, W. F., and Adamson.)
Adler, Frank H., Minneapolis, Minn. Windshield-cleaning composition. No. 1,378,931; May 24; v. 286; p. 670.
Adriance Machine Works. (See Calleson, Amos, assignor.)
Advance Manufacturing Company, The. (See Saborsky, Arthur D., assignor.)
Agnew, Paul G. (See Loomis, A. L., Klopsteg, Agnew, and Stannard.)
Agre, Carl S., Volga, S. D. Automatic grain-shocker. No. 1,380,285; May 31; v. 286; p. 999.
Ahl, Frank H. (See Parr, Albert, assignor.)
Ahlert, Ernest. (See Scholl, Paul, assignor.)
Ahlstrom, Charles A., Jamestown, N. Y. Lid-support. No. 1,379,794; May 31; v. 286; p. 906.
Aichele, Albert, Baden, Switzerland. Apparatus for operating the sliding wheels of change-speed gears. No. 1,379,891; May 31; v. 286; p. 924.
Aichele, William F., Good Ground, N. Y. Emergency-tire. No. 1,377,170; May 10; v. 286; p. 207.
Aicher, Gustav A., assignor to Arden Salt Company, San Francisco, Calif. Salt-harvesting machine. No. 1,377,999; May 17; v. 286; p. 419.
Aiken, George A., Clifton, N. J. Cutting shirts. No. 1,378,164; May 17; v. 286; p. 451.
Aikin, Arthur C., Mason City, Iowa. Lug-shield for tractor-wheels. No. 1,377,794; May 10; v. 286; p. 327.
Air Reduction Company. (See Wilkinson, Walter, assignor.)
Air Reduction Company. (See Zouck, G. H., and Walker, assignors.)
Air Reduction Company Incorporated. (See Kaufman, Alfonse, assignor.)
Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)
Ajello, Gaetan, New York, N. Y. Landing-gear and shock-absorber for aircraft. No. 1,376,912; May 3; v. 286; p. 102.
Ajouz, George, Detroit, Mich. Velocipede. No. 1,379,604; May 31; v. 286; p. 871.
Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus for naval guns. No. 1,379,506; May 24; v. 286; p. 778.
Aktiebolaget Gerh, Arehns Mekaniska Verkstad. (See Ekström, G. C., Johnson, and Orström, assignors.)
Aktiebolaget Gustafsbergs Fabriks Inkessenter. (See Odelberg, Axel S. W., assignor.)
Aktiebolaget Gyro. (See Cassel, Gunnar E., assignor.)
Aktiebolaget Ljungstroms Angturbin. (See Wiberg, Oskar A., assignor.)
Alary, Alphonse, St. Casimir, Quebec, Canada. Hinge. No. 1,379,951; May 31; v. 286; p. 936.
Albrecht, Edward, and W. H. Schuessler, Philadelphia, Pa. Hoisting and dumping vehicle. No. 1,377,611; May 10; v. 286; p. 291.
Albury, Robert C., and L. T. Hayman, Tampa, Fla. Automatic stop mechanism for railways. No. 1,380,174; May 31; v. 286; p. 978.
Alderdice, Walter, New York, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 1,379,892; May 31; v. 286; p. 924.
Alexander, George E., New York, N. Y. Wheel. No. 1,379,507; May 24; v. 286; p. 778.
Alexander, Laurence G. (See Logan, Marcellus J., assignor.)
Alldredge, Francis B., Des Moines, Iowa. Device and process for automatically removing water from gas wells. No. 1,377,171; May 10; v. 286; p. 207.
Allen, Arthur E., Kirkland, Wash. Dehydrating potatoes. No. 1,377,172; May 10; v. 286; p. 207.
Allen, Charles J., San Francisco, Calif. Portable loading device. No. 1,378,576; May 17; v. 286; p. 528.
Allen, Charles O., Shawnee, Okla. Swivel connection for electrical conductors. No. 1,379,795; May 31; v. 286; p. 906.
Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Vehicle-top. No. 1,379,893; May 31; v. 286; p. 925.
Allen, Ebenezer W. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Work-clamping mechanism for sewing-machines. No. 1,379,894; May 31; v. 286; p. 925.
Allen, Eryan V., Bogalusa, La. Cultivator. No. 1,378,165; May 17; v. 286; p. 451.
Allen, Herman. (See Daraban, Charles J., assignor.)
Allen, Judge S., New York, N. Y. Hat-holder. No. 1,379,605; May 31; v. 286; p. 871.
Allen, Lucan D., assignor of two-fifths to W. E. Allen, San Francisco, Calif. Demountable-tire rim. No. 1,377,173; May 10; v. 286; p. 207.
Allen, William E. (See Allen, Lucan D., assignor.)
Allen, William H., assignor to Parker Rust-Roof Company, Detroit, Mich. Controlling case-hardening. No. 1,377,174; May 10; v. 286; p. 207.
Allis-Chalmers Manufacturing Company. (See Baudisch, Hans, assignor.)
Allman, Sydney K., Jenkintown, Pa. Bumper for automobiles. No. 1,378,000; May 17; v. 286; p. 419.
Alm, Oscar A., Binford, N. D. Ladder-foot extension. No. 1,377,343; May 10; v. 286; p. 278.
Alpha Timer and Accessories Company, The. (See Bokemeyer, Charles H., assignor.)

Alquist, Sven P., Sedalia, Mo., and A. S. Barrows, Chicago, Ill., assignors of one-third to W. L. Kellogg, Detroit, Mich. Freight-car construction. No. 1,379,952; May 31; v. 286; p. 936.

Alston Saw & Steel Company. (See Pittman, Reinhart W., assignor.)

Altgelt, Herman E., New Braunfels, Tex., assignor to Oliver Chilled Plows Works, South Bend, Ind. Wheel-operated lift mechanism. No. 1,378,754; May 17; v. 286; p. 563.

Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,377,047; May 3; v. 286; p. 127.

Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,377,048; May 3; v. 286; p. 128.

Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Wheeled plow. No. 1,377,049; May 3; v. 286; p. 128.

Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,377,050; May 3; v. 286; p. 128.

Altmayer, Marvin C. (See Netter, Raphaël, assignor.)

Alton, William H., New York, N. Y. Treating calcium carbonate. No. 1,379,157; May 24; v. 286; p. 712.

Aluminum Company of America. (See Frary, Francis C., assignor.)

Amalgamated Machinery Corporation. (See Yeomans, Lucien I., assignor.)

American Abrasive Metals Company. (See Burger, Ellsworth, assignor.)

American Balsa Corporation. (See Mattullath, Alice K., assignor.)

American Brake Shoe and Foundry Company, The. (See Jones, Harry, assignor.)

American Building Products Company. (See Stevens, Fremont C., assignor.)

American Chain Company. (See Cole, John W., assignor.)

American Chain Company. (See Smith, Friend W., assignor.)

American Chain Company. (See Stodden, George, assignor.)

American Chemical Laboratories. (See Gelbert, Alfred, assignor.)

American Coke & Chemical Company. (See Roberts, Arthur, assignor.)

American Dressler Tunnel Kilns. (See Kelley, Cott C., assignor.)

American Dressler Tunnel Kilns. (See Zimmerman, Edward G., assignor.)

American Equipment Company, The. (See Cary, William N., assignor.)

American Flexible Bolt Company. (See Frauenheim, J. A., and Etheridge, assignors.)

American Foundry Equipment Company, The. (See Rich, Elmer A., Jr., assignor.)

American Gas Accumulator Company. (See Medén, Elof H., assignor.)

American Hardware Corporation, The. (See Stone, Elmer B., assignor.)

American Lacing Hook Co. (See Blessington, S. G., and Cosgrove, assignors.)

American Lacing Hook Co. (See Havener, Arthur R., assignor.)

American Laundry Machinery Company, The. (See Andrée, William E., assignor.)

American Laundry Machinery Company, The. (See Braley, Charles L., assignor.)

American Manganese Steel Company. (See Watts, James R., assignor.)

American Metal Cap Company. (See Hammer, Charles, assignor.)

American Molding Machine Company. (See Norcross, William C., assignor.)

American Nottingham Process Company. (See Nottingham, C. A., and Tuhey, assignors.)

American Novelty Company, The. (See Ferland, Napoleon H., assignor.)

American Ocarina and Toy Company. (See Gidlof, Conrad E., assignor.)

American Optical Company. (See Demers, Arthur E., assignor.)

American Photo Player Company. (See Van Valkenburg, Burt R., assignor.)

American Road Plane. (See Lee Joseph W., assignor.)

American Steel Foundries. (See Floyd, George G., assignor.)

American Rotary Engine Co. (See Boyer, Alexander B., assignor.)

American Safety Razor Corporation. (See Behrman, Marcus B., assignor.)

American Seeding Machine Company. (See Towle, Elmer E., assignor.)

American Smelting and Refining Company. (See Garr, Samuel R., assignor.)

American Smelting and Refining Company. (See Howard, William H., assignor.)

American Smelting and Refining Company. (See Strobel, Roger L., assignor.)

American Steel Foundries. (See Floyd, George G., assignor.)

American Steel Foundries. (See Lamont, John A., assignor.)

American Stove Company. (See Farnham, Charles F., assignor.)

American Telephone & Telegraph Company. (See Arnold, O. M., and Toomey, assignors.)

American Telephone and Telegraph Company. (See Clark, A. B., and Demarest, assignors.)

American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)

American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)

American Telephone and Telegraph Company. (See Toomey, J. F., and Spencer, assignors.)

American Thermophone Company. (See Breckenridge, Francis C., assignor.)

American Well Works, The. (See Sperry, John B., assignor.)

American Whaley Engine Company. (See Whaley, William B. S., assignor.)

American Woodworking Machinery Company. (See Clement, Frank H., assignor.)

Ames, Adelbert, Jr., Tewksbury, Mass. Projection apparatus. No. 1,376,913; May 3; v. 286; p. 102.

Amigues, Albert, Paris, France. Sighting apparatus for firearms, and particularly for machine-guns. No. 1,376,992; May 3; v. 286; p. 117.

Amiot, Felix, Colombes, France. Arrangement or grouping of the parts of the transmission-gear in motorcycles and gear-case therefor. No. 1,378,309; May 17; v. 286; p. 478.

Amoedo, Tomás F., Buenos Aires, Argentina. Device for marking animals and the like. No. 1,378,166; May 17; v. 286; p. 451.

Anchor Cap & Closure Corporation. (See Luhrmann, George W., assignor.)

Anchors, George R., St. Louis, Mo. Making nitrostarch and the like. No. 1,376,598; May 3; v. 286; p. 42.

Andersen, Lauritz W., Waterbury, Conn. Ceiling-light. No. 1,380,131; May 31; v. 286; p. 970.

Andersen, Wilhelm G., and J. H. Brevig, Christiania, Norway. Coupling-sleeve for tubular bodies. No. 1,380,175; May 31; v. 286; p. 978.

Anderson, Albin E., Oakmont, assignor to Pittsburgh Wire Rope Company, Verona, Pa. Machine for making wire rope. No. 1,378,932; May 24; v. 286; p. 670.

Anderson, Carl L., and C. E. Swenson, Rockford, Ill. Method of and apparatus for hobbing teeth on revolving blanks. No. 1,380,286; May 31; v. 286; p. 999.

Anderson, Carl L., *et al.* (See Swenson, Carl E., assignor.)

Anderson, Duncan M., Toronto, Ontario, Canada. Artificial hand. No. 1,377,956; May 10; v. 286; p. 359.

Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)

Anderson, Elmer W. (See Hutchinson, E. C., and Anderson.)

Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Cartoning-machine. No. 1,376,499; May 3; v. 286; p. 23.

Anderson, George G. (See Koken, W. F., and Anderson.)

Anderson, George H., Battle Creek, Mich. Centrifugal pump. No. 1,379,380; May 24; v. 286; p. 755.

Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment-press. No. 1,379,601; May 24; v. 286; p. 796.

Anderson, Hans C., Minneapolis, Minn. Cot for automobiles. No. 1,377,801; May 17; v. 286; p. 419.

Anderson, Harold N., assignor to The Anderson Patents Company, Cleveland, Ohio. Apparatus for making gears. No. 1,377,175; May 10; v. 286; p. 207.

Anderson, Harold N., assignor to The Anderson Patents Company, Cleveland, Ohio. Forged shrouded gear. No. 1,377,176; May 10; v. 286; p. 208.

Anderson, Harold N., assignor to The Anderson Patents Company, Cleveland, Ohio. Making gears. No. 1,377,177; May 10; v. 286; p. 208.

Anderson, Harry G., Chicago, Ill. Traction device. No. 1,378,083; May 17; v. 286; p. 435.

Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Cane-car. No. 1,380,176; May 31; v. 286; p. 979.

Anderson, Lou B., Celina, Tex. Fuse-block. No. 1,376,392; May 3; v. 286; p. 3.

Anderson, Neal H. (See Newton, D. L., and Anderson.)

Anderson Patents Company, The. (See Anderson, Harold N., assignor.)

Anderson, Raymond M., assignor to G. M. Holley, Detroit, Mich. Carbureter float mechanism. No. 1,380,032; May 31; v. 286; p. 951.

Andreani, Antoine, Geneva, Switzerland. Lock. No. 1,379,844; May 31; v. 286; p. 916.

Andrée, Arthur G. H., assignor to M. J. Andrée, Oak Park, Ill. Wrench. No. 1,377,178; May 10; v. 286; p. 208.

Andrée, Max J. (See Andrée, Arthur G. H., assignor.)

Andreino, Hector, assignor to The Society Fabriques des Moutres Zenith successeur de Fabriques des Moutres Zenith Georges Favre-Tacot & Cie., Le Locle, Switzerland. Ignition-magneto for internal-combustion engines. No. 1,379,953; May 31; v. 286; p. 936.

Andresen, Herman P., Chicago, Ill. Combination heater and maintenance-wagon. No. 1,376,852; May 3; v. 286; p. 90.

Andrews, Carlos S., Chicago, Ill. Screwdriver, or the like. No. 1,377,958; May 10; v. 286; p. 359.

Angeli, Otis R., Boston, Mass. Centrifugal top. No. 1,377,544; May 10; v. 286; p. 278.

Angus, Donald J. (See Esterline, J. W., and Angus.)

Anheuser, Ernst, Racine, Wis. Tool. No. 1,379,737; May 31; v. 286; p. 896.

Annable, Warren W., Grand Rapids, Mich. Keyway-forming in wheels or the like and product thereof. No. 1,376,664; May 3; v. 286; p. 53.

Anti-Corrosion Engineering Company. (See West, Perry, assignor.)

Apco Manufacturing Company. (See Storrie, William, assignor.)

Apollo Magneto Corporation. (See Fuegel, G., and Schmid, assignor.)

Appleby, William E., Newcastle-on-Tyne, England. Toy aeroplane. No. 1,377,867; May 10; v. 286; p. 341.

Arato, Achille, assignor to F. Botta, Turin, Italy. Steering-gear for vehicles used as trailers. No. 1,378,436; May 17; v. 286; p. 502.

Arbuckle, Samuel F., Indianapolis, assignor to United States Automotive Corporation, Connersville, Ind. Lamp construction. No. 1,376,599; May 3; v. 286; p. 42.

Arbuckle, Samuel F., Indianapolis, assignor to United States Automotive Corporation, Connersville, Ind. Adjustably-hinged tilting reflector for lamps. No. 1,376,993; May 3; v. 286; p. 117.

Arden Salt Company. (See Aicher, Gustav A., assignor.)

Arentz, Fred B. (See Backhaus, A. A., and Arentz.)

Arkin, Louis, Boston, Mass. Fastener. No. 1,380,177; May 31; v. 286; p. 979.

Armstrong Cork Company. (See Fix, Frank C., assignor.)

Armstrong, Edward R., Wilmington, Del. Anchoring aeroplane, navigating, and supply stations at any depth of the ocean. No. 1,378,394; May 17; v. 286; p. 494.

Armstrong, Frank W., Salina, Kans. End shield for automobile-dustpans. No. 1,377,705; May 10; v. 286; p. 327.

Arnold, Douglass L., Chicago, Ill., assignor to International Harvester Company. Spark-plug. No. 1,376,500; May 3; v. 286; p. 23.

Arnold, Oscar M., and John F. Toomey, New York, N. Y., assignors to American Telephone & Telegraph Company. Telephone toll-circuits. No. 1,376,391; May 3; v. 286; p. 3.

Arnold, Satterlee T., Paducah, Ky. Bottle-opener. No. 1,376,994; May 3; v. 286; p. 117.

Arnold, John T., Attica, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Stoker. No. 1,379,672; May 31; v. 286; p. 884.

Asbestos Shingle Company. (See Norton, Charles L., assignor.)

Ashley, Chauncey E., Syracuse, N. Y. Locking-socket. No. 1,379,606; May 31; v. 286; p. 871.

Ashley, Chauncey E., Syracuse, N. Y. Locking-socket. No. 1,379,607; May 31; v. 286; p. 872.

"Asfag" Aktiengesellschaft. (See Gebhard, Conrad, assignor.)

Ashbaugh, Robert P., River Forest, and S. C. Cawthon, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Winding mechanism. No. 1,376,914; May 3; v. 286; p. 102.

Ashtabula Bow Socket Company, The. (See Allen, Charles R., assignor.)

Ashton, John F., Worcester, and T. N. Ashton, Fall River, Mass. Lens-edge-grinding machine. No. 1,378,831; May 24; v. 286; p. 651.

Ashton, Thomas N. (See Ashton, John F. and T. N.)

Ashworth, William D., Philadelphia, Pa. Cartridge-clip. No. 1,379,075; May 24; v. 286; p. 696.

Askin, Morris W. (See Herbert, T. L., and Askin.)

Askren, Herman G., Tipton, Ind. Broom-corn stemmer and separator. No. 1,377,796; May 10; v. 286; p. 328.

Associated Engineering and Supply Company. (See Stewart, Carlton D., assignor.)

Associated Tanners Machinery Co. (See Soper, Walter R., assignor.)

Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought-iron. No. 1,380,178; May 31; v. 286; p. 979.

Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined rivet-heater and riveter. No. 1,376,501; May 3; v. 286; p. 23.

Atkins, E. C., & Company. (See Berry, Robert C., assignor.)

Atlantic Refining Company, The. (See Buerger, Charles B., assignor.)

Atlas Manufacturing Company. (See Billingsley, Percy L., assignor.)

Atwood, A. L. (See Parmenter, Brady, assignor.)

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Strike or keeper for rim-locks. No. 1,377,051; May 3; v. 286; p. 128.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock for automobile-doors. No. 1,379,508; May 24; v. 286; p. 779.

Auger, Victor, assignor of one-half to A. Ferron, Montreal, Quebec, Canada. Supporting device for switch-actuating bars. No. 1,378,755; May 17; v. 286; p. 564.

Aulenback, James R., Bridgewater, Nova Scotia, Canada. Inside-cutting tool. No. 1,377,109; May 3; v. 286; p. 139.

Austin, Frederick C. (See French, James C., assignor.)

Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Bearing. No. 1,379,296; May 24; v. 286; p. 738.

Austin Organ Company, The. (See Austin, John T., assignor.)

Austin, Paul V., Buffalo, N. Y. Apparatus for treating grain or the like. No. 1,377,743; May 10; v. 286; p. 316.

Ausubel, Herman, New York, N. Y. Hypodermic-syringe transmission therefor. No. 1,378,756; May 17; v. 286; p. 564.

Auto Safety Device Company. (See Olson, John A., assignor.)

Automatic Electric Company. (See Chapin, William A., assignor.)

Automatic Electric Company. (See Homrighous, John H., assignor.)

Automatic Electric Company. (See Jacobsen, Emil, assignor.)

Automatic Electric Company. (See Seymour, Arthur J., assignor.)

Automatic Electric Company. (See Wicks, John, assignor.)

Automatic Electric Company. (See Willis, Bernard D., assignor.)

Automatic Electric Company. (See Yanochowski, G. A., and Hershey, assignors.)

Automatic Flatwork Folder Company. (See Kelley, Margaret, assignor.)

Automatic Recording Safe Company, The. See Fisher, Charles, assignor.)

Auzenat, Louis G. R., assignor to la Loie Artificielle de La Voulte, Paris, France. Waterproofing and strengthening threads and fabrics. No. 1,377,110; May 3; v. 286; p. 139.

Aveline, Georges, Soho, London, assignor to R. Roze-Perkins, deceased, Kensington, London, England; H. Paget-Cooke and E. A. H. Douglass-Hamilton, executors. Automatic stabilizing or controlling means for aircraft. No. 1,378,895; May 31; v. 286; p. 925.

Aveline, John, Scranton, Pa. Draft appliance. No. 1,378,437; May 17; v. 286; p. 502.

Avery Company. (See Bartholomew, John B., assignor.)

Avery Company. (See Solomon, Edgar J., assignor.)

Avery, Thomas J., Albia, Iowa. Combination scraper, charger, and tamper. No. 1,379,435; May 24; v. 286; p. 764.

Avorio, Luigi. (See Prassone, E., and Avorio.)

Awe, William F., assignor of one-half to M. P. H. Schroeder, Chicago, Ill. Manifold-lock for internal-combustion engines. No. 1,377,168; May 3; v. 286; p. 150.

Awner, Myron, Chicago, Ill. Trousers-belt. No. 1,378,207; May 17; v. 286; p. 458.

Axelman, Harry W. (See Axelman, Mayer and H. W.) (Reissue.)

Axelman, Mayer, and H. W., Chicago, Ill. Brief and other carrying case. (Reissue.) No. 15,104; May 17; v. 286; p. 578.

Axilrod, Meyer, Reading, Pa. Combination table and shaft support. No. 1,379,158; May 24; v. 286; p. 712.

Axtell, Clinton J., assignor to General Electric Company, Schenectady, N. Y. Electrical system of power transmission and regenerative braking. No. 1,378,511; May 17; v. 286; p. 516.

Ayres, W. E. (See Carpenter, Ira L., assignor.)

Babcock & Wilcox Company, The. (See Kemnal, J., and Henry, assignors.)

Babel, Henry C., Buffalo, N. Y. Cushioned tire. No. 1,378,832; May 24; v. 286; p. 651.

Bachle, Andrew, Detroit, Mich. Intake-manifold for internal-combustion engines. No. 1,379,327; May 24; v. 286; p. 745.

Backhaus, Arthur A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Making catalyzers. No. 1,376,665; May 3; v. 286; p. 54.

Bacon, Charles R., Los Angeles, Calif. Automatic-call clock. No. 1,380,311; May 31; v. 286; p. 1004.

Bacon, Raymond F., and C. N. Wenrich, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Refining sulfur. No. 1,378,084; May 17; v. 286; p. 435.

Baer, Thomas, and W. H. Bitler, Terre Hill, Pa. Apparatus for use in assorting cigar-wrappers. No. 1,380,179; May 31; v. 286; p. 979.

Bagnall, Chandler, Battle Creek, Mich. Fruit receiving and conveying device. No. 1,380,033; May 31; v. 286; p. 952.

Bahrenburg, Henry W., Newark, N. J. Ice and snow cutting implement. No. 1,378,577; May 17; v. 286; p. 528.

Bail, Elmer E., Pittsburgh, Pa. Milk-bottle receptacle. No. 1,379,509; May 24; v. 286; p. 779.

Bailey, Anna D., New York, N. Y. Adjustable and collapsible dress-form. No. 1,376,502; May 3; v. 286; p. 23.

Bailey, David, Salem, Ohio. Eraser and pencil holder. No. 1,379,608; May 31; v. 286; p. 872.

Bailey, Jessie, and S. Kelley, Clarinda, Iowa. Skirt-marker. No. 1,377,179; May 10; v. 286; p. 208.

Bailey, Percy S., Lynn, Mass., assignor to General Electric Company. Universal joint and shock-absorbing spring for headlights. No. 1,379,510; May 24; v. 286; p. 779.

Bailey, William E., Rock Island, Ill. Camera. No. 1,378,208; May 17; v. 286; p. 458.
Bain, Foreé, La Grange, Ill., assignor to The Miami Trailer Company. Camping-vehicle. No. 1,378,512; May 17; v. 286; p. 516.
Bair, Joseph H., Haddonfield, N. J. Rotary internal-combustion engine. No. 1,377,383; May 10; v. 286; p. 249.
Baird-Daniels Co., *et al.* (See Popper, Joseph, assignor.)
Baird, Melville B., and G. A. Walls, Kansas City, Mo.; said Walls assignor, by mesne assignments, of his right to J. C. W. Bland, Tulsa, Okla. Sanitary drinking-cup. No. 1,378,310; May 17; v. 286; p. 478.
Baird, Walter. (See Cardwell, Charles E., assignor.)
Baird, William J., Detroit, Mich. Molding-machine. No. 1,379,328; May 24; v. 286; p. 745.
Baits, Stuart G. (See Fekete, S. I., and Baits.)
Baivier, Felix J. (See Abern, H. C., and Baivier.)
Baker, A. T., & Company. (See Ott, Frederick, assignor.)
Baker, Charles I., St. Paul, Minn. Automatic hot-water heater. No. 1,376,853; May 3; v. 286; p. 90.
Baker, Clinton C., assignor of one-half to T. L. Bonsall, Ottawa, Ontario, Canada. Detergent. No. 1,378,311; May 17; v. 286; p. 478.
Baker & Company. (See Carter, Frederic E., assignor.)
Baker & Company. (See Van Allen, George L., assignor.)
Baker, Eugene L., Taunton, Mass. Range. No. 1,379,954; May 31; v. 286; p. 937.
Baker, Ira F. (See Meaker, A. P., and Baker.)
Baker, John C., Ridgefield Park, N. J. Sterilizing. No. 1,378,644; May 17; v. 286; p. 542.
Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Setting mechanism for indicating-registers. No. 1,379,738; May 31; v. 286; p. 896.
Baker, Morvan N., Dorchester, Nebr. Hoisting apparatus. No. 1,377,744; May 10; v. 286; p. 316.
Baker, Newton D., Secretary of War, trustee. (See Cook, Clarence A., assignor.)
Baker-Perkins Manufacturing Corporation. (See Gase, Eugene, assignor.)
Baker, Robert W., assignor of one-half to M. W. Cochrane, Omaha, Nebr. Piston-ring. No. 1,377,151; May 3; v. 286; p. 147.
Baker-Vawter Company. (See Manny, Fred L., assignor.)
Baker, Walter W., and F. W. Franklin, Syracuse, N. Y. Self-centering tool-holder. No. 1,376,791; May 3; v. 286; p. 77.
Balch, Samuel W., Montclair, N. J. Geographical clock. No. 1,378,085; May 17; v. 286; p. 435.
Balch, Samuel W., Montclair, N. J. Ship's-bells clock. No. 1,378,438; May 17; v. 286; p. 502.
Balderston, William, assignor to French Battery & Carbon Co., Madison, Wis. Dry cell. No. 1,380,034; May 31; v. 286; p. 952.
Baldwin, Charles E., Jamestown, assignor to Registrometer Company, Buffalo, N. Y. Measuring-machine. No. 1,379,159; May 24; v. 286; p. 712.
Ballard, Harrie A., Boston, assignor to The Phonoharp Company, East Boston, Mass. Inverted keyed zither. No. 1,376,738; May 3; v. 286; p. 67.
Ballard, Harry E., Holyoke, assignor to The Coburn Trolley Track Manufacturing Company, Chicopee, Mass. Mounting for trolley-switches. No. 1,377,653; May 10; v. 286; p. 299.
Ballard, Marvin K., Belmont, N. C. Slubbing-machine. No. 1,379,511; May 24; v. 286; p. 779.
Ballard, Robley D., St. Petersburg, Fla. Adjustable tractive attachment for traction-wheels. No. 1,376,792; May 3; v. 286; p. 78.
Balon, Joseph, Staunton, Ill. Bird-aeroplane. No. 1,377,384; May 10; v. 286; p. 249.
Balsley, Frederick M., Madison, Wis. Culvert-cleaning hoe. No. 1,376,995; May 3; v. 286; p. 117.
Balzer, Fritz, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Reversing mechanism for cylinder washing-machines. No. 1,376,393; May 3; v. 286; p. 3.
Bancel, Paul A., Nutley, assignor to Ingersoll-Rand Company, Jersey City, N. J. Jet-condenser. No. 1,379,955; May 31; v. 286; p. 937.
Bandle, Chester R., Los Angeles, Calif. Piston. No. 1,377,453; May 10; v. 286; p. 262.
Barber, Claire S. (See Richardson, B. J., and Barber.)
Barber-Colman Company. (See Hathaway, E. F., and Mars, assignors.)
Barbour, Rachel, Seymour, Ind. Combination porch-swing and crib. No. 1,379,956; May 31; v. 286; p. 937.
Bardwell, Francis N., Passaic, N. J. Resilient wheel and container. No. 1,378,806; May 17; v. 286; p. 573.
Bark, Otto, assignor to Leakproof Radiator Co., Chicago, Ill. Radiator-tubing. No. 1,377,385; May 10; v. 286; p. 249.
Barks, Frank S., St. Louis, Mo. Journal-bearing support. No. 1,377,545; May 10; v. 286; p. 279.
Barnard, Alfred W. A., Wellington, assignor of one-fourth to S. J. Hartley, Main Road, Himatangi, Wellington, New Zealand. Safety device for fowling-pieces, rifles, and the like. No. 1,379,238; May 24; v. 286; p. 727.
Barnard, Thomas H. (See Taylor, Herbert, assignor.)
Barnes, Ervin R., Spokane, Wash. Excavating and grading machine. No. 1,379,845; May 31; v. 286; p. 916.
Barnes, Gaylord V., Alameda, Calif. Seat for vehicles or the like. No. 1,379,076; May 24; v. 286; p. 696.
Barnes, Van Roy, Urbana, Ill. Vehicle-signal. No. 1,378,312; May 17; v. 286; p. 478.
Barnett, James S., Dallas, Tex. Cotton-cultivator. No. 1,378,513; May 17; v. 286; p. 517.
Barnett, John S., North Bend, Oreg. Planetary gearing. No. 1,376,915; May 3; v. 286; p. 102.
Barr, Robert H., *et al.* (See Newth, Basil, assignor.)
Barrett Company, The. (See Holder, John I., assignor.)
Barrett Company, The. (See Weiss, J. M., and Downs, assignors.)
Barrows Allan S. (See Alquist, S. P., and Barrows.)
Barrows, Donald S., Rochester, N. Y. Car-underframe. No. 1,378,645; May 17; v. 286; p. 542.
Barry, William B., Jr., East Orange, N. J. Protector for lubricating-cups. No. 1,379,609; May 31; v. 286; p. 872.
Bart, Thomas E., assignor to The Murdock Manufacturing and Supply Co., Cincinnati, Ohio. Bubbler for drinking-fountains. No. 1,376,916; May 3; v. 286; p. 102.
Barthelemy, Walter L., Dayton, Ohio. Tractor. No. 1,378,002; May 17; v. 286; p. 419.
Bartholomew, Byron, Joliet, Ill. Locking system. No. 1,379,610; May 31; v. 286; p. 872.
Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,379,673; May 31; v. 286; p. 884.
Bartlett Hayward Company, The. (See Wagner, Frederick H., assignor.)
Bartus, Andrew. (See Kabacij, G., and Bartus.)
Barwick, James W., Pinepark, Ga. Automobile-lock. No. 1,378,757; May 17; v. 286; p. 564.
Barwicki, John, New York, N. Y. Turntable for vehicle. No. 1,379,239; May 24; v. 286; p. 727.
Bash, Francis E., assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical pyrometry. No. 1,376,666; May 3; v. 286; p. 54.
Bashwiner, Charles, Brooklyn, N. Y. Display-box. No. 1,379,240; May 24; v. 286; p. 728.
Baskerville, Charles, New York, N. Y. Coating ferrous metals. No. 1,378,439; May 17; v. 286; p. 502.
Baskin, Edwin T., Kansas City, Mo. Three-finger mitten. No. 1,378,758; May 17; v. 286; p. 564.
Bassett, Harry P., Cynthiana, Ky. Separating the potassium content of potassium-containing liquors. No. 1,380,035; May 31; v. 286; p. 952.
Bassette, John G., assignor to Groton Electrical Devices Inc., Groton, N. Y. Coin-controlled electric switch. No. 1,378,933; May 24; v. 286; p. 670.
Bassick Company, The. (See Moore, Raymond G., assignor.)
Bastian Bros. Company. (See Bott, Joseph, assignor.)
Bates, Arthur, Leicester, England, assignor to United Shot Machinery Corporation, Paterson, N. J. Machine for making nails. No. 1,379,611; May 31; v. 286; p. 872.
Bates, Lindon W., Mount Lebanon, N. Y. Protecting ships. No. 1,379,241; May 24; v. 286; p. 728.
Battle Creek Appliance Co. (See Bobo, Walter T., assignor.)
Baudisch, Hans, Vienna, Austria, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine. No. 1,379,796; May 31; v. 286; p. 906.
Bauer, Frederick E., Java, S. D. Oil-can. No. 1,377,797; May 10; v. 286; p. 328.
Bauer, John G. (See Roeling, H. W., Williams, and Bauer.)
Baum, David, Livermore Falls, Me. Glove-finger-supporting tube. No. 1,378,646; May 17; v. 286; p. 542.
Bauman, Martin, Akron, Ohio. Artificial laboring-hand. No. 1,378,578; May 17; v. 286; p. 529.
Baumgardner, Henry C., Ann Arbor, Mich. Spraying-machine. No. 1,377,654; May 10; v. 286; p. 300.
Baumann, William J. (See Hawksley, C., and Baumann.)
Bayer, Martin E., Allentown, Pa. Display-easel. No. 1,379,612; May 31; v. 286; p. 873.
Baxter, Aldrich. (See West, F. J., Jackson, and Leader, assignors.)
Baxter, Ernest H., Chicago, Ill. Fuse-Plug. No. 1,379,436; May 24; v. 286; p. 765.
Baxter, Ernest W., Van Wert, Ohio. Governor for gas-engines. No. 1,376,503; May 3; v. 286; p. 24.
Bayne, Emmor M., Philadelphia, Pa. Clothes-drier. No. 1,377,612; May 10; v. 286; p. 291.
Beard, James T., Jr., Brooklyn, N. Y. Automatic sound-reproducing machine. No. 1,378,647; May 17; v. 286; p. 542.
Bearens, Claude, New York, N. Y. Transmission-gear. No. 1,379,512; May 24; v. 286; p. 779.
Bearse, Aaron, Syracuse, N. Y. Guy-anchor. No. 1,376,854; May 3; v. 286; p. 90.
Beasley, William F., Plymouth, N. C. Tire construction. No. 1,378,313; May 17; v. 286; p. 478.
Beatty, Richard C., Chicago, Ill. Display device. No. 1,378,934; May 24; v. 286; p. 670.
Beaudoin, Theodore, St. Johns, Quebec, Canada. Packing-ring for pistons and the like. No. 1,379,513; May 24; v. 286; p. 780.
Beaudot, Georges M., assignor to G. M. Beaudot and A. A. Lion, Paris, France. Magneto pocket-lamp. No. 1,380,180; May 31; v. 286; p. 979.
Beaumont, R. H., Company. (See Hale, William E., assignor.)
Beaver Company, The. (See Thickens, John H., assignor.)
Bechoff, Ferdinand, and M. M. Samuels, New York, N. Y., assignors to Lewis & Roth Company, Philadelphia, Pa. Air-break switch. No. 1,378,395; May 17; v. 286; p. 494.

Beck, Christoph. (See Bosch, C., Mittasch, and Beck.)
Beck Duplicator Company. (See Isaacs, Albert, assignor.)
Beck, Erasmus W., Griffin, Ga. Pump. No. 1,380,181; May 31; v. 286; p. 979.
Beck, William O., Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,379,242; May 24; v. 286; p. 728.
Becker, Julius, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pivot-gun. No. 1,376,793; May 3; v. 286; p. 78.
Becker, Samuel, Brooklyn, N. Y. Paper-gripping device. No. 1,378,648; May 17; v. 286; p. 543.
Beckham, E. F., *et al.* (See White, Tilman, assignor.)
Beckman, Knut A., Stockholm, Sweden. Automatic slack-adjuster for railway-brakes. No. 1,377,386; May 10; v. 286; p. 249.
Bedford, Clayton W., and W. J. Kelly, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Halogenated rubber compound and preparing the same. No. 1,377,152; May 3; v. 286; p. 147.
Beecher, Milton F., Worcester, Mass., assignor to Norton Company. Antislipping vitrified tile. No. 1,377,957; May 10; v. 286; p. 359.
Beem, John C., Sawtelle, Calif. Milking-machine. No. 1,377,546; May 10; v. 286; p. 279.
Beem, John C., Sawtelle, Calif. Milking-machine. No. 1,377,547; May 10; v. 286; p. 279.
Begas, Gottfried, Berlin, Germany. Hairdresser's undulating device. No. 1,377,655; May 10; v. 286; p. 300.
Begley, Kennus P., White Star, Ky. Mine-car tag-holder. No. 1,379,514; May 24; v. 286; p. 780.
Behn, Walter J., Detroit, Mich. Universal joint. No. 1,376,504; May 3; v. 286; p. 24.
Behrens, Richard L. (See Schou, T., and Behrens.)
Behrman, Marcus B., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Shaving-stick package. No. 1,379,674; May 31; v. 286; p. 884.
Beidler, George C., Rochester, N. Y. Photographing and developing apparatus. No. 1,377,454; May 10; v. 286; p. 262.
Beidler, George C., Rochester, N. Y. Autographic camera. No. 1,377,455; May 10; v. 286; p. 262.
Beisel, William J., Brooklyn, N. Y. Spring-wheel. No. 1,378,516; May 17; v. 286; p. 517.
Beisel, William J., Port Richmond, N. Y. Wheel-hub. No. 1,378,517; May 17; v. 286; p. 517.
Beland, Joseph P., Quebec, Quebec, Canada. Bottom and top page-marginer. No. 1,376,996; May 3; v. 286; p. 117.
Belknap, William H., New York, assignor of one-fourth to T. J. Law, Brooklyn, N. Y. Steam-turbine engine. No. 1,378,390; May 17; v. 286; p. 494.
Bell, George T., assignor, by mesne assignments, to J. F. C. McCarthy, Boston, Mass. Trolley-pole head. No. 1,378,991; May 24; v. 286; p. 681.
Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,379,243; May 24; v. 286; p. 728.
Bell, Richard T., assignor of one-fourth to R. J. Copeland, Toronto, Ontario, Canada. Advertising device. No. 1,379,329; May 24; v. 286; p. 745.
Bell, William F., Canton, N. C. Double-action pump. No. 1,379,515; May 24; v. 286; p. 780.
Bellican, Robert P., Natchez, Miss. Gate-hinge. No. 1,380,312; May 31; v. 286; p. 1004.
Benedict, Louis K., Hastings, Fla. Wheel-colter. No. 1,379,613; May 31; v. 286; p. 873.
Benjamin Electric Manufacturing Company. (See Benjamin, R. B., and Boetter, assignors.)
Benjamin Electric Manufacturing Company. (See Benjamin, R. B., and Curless, assignors.)
Benjamin, Erlon H., Port Jefferson, N. Y. Nut-lock. No. 1,376,667; May 3; v. 286; p. 54.
Benjamin P. Obdyke, Inc. (See Brown, J. W., and Hess, assignors.)
Benjamin, Reuben B., and J. M. Curless, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Machine for making tinsel. No. 1,377,548; May 10; v. 286; p. 279.
Benjamin, Reuben B., and A. V. Boetter, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,379,244; May 24; v. 286; p. 728.
Benjamin, Walter R., assignor of one-half to Thomas O'Hanlon Co., Inc., Chinook, Mont. Weatherproof construction for buildings. No. 1,379,516; May 24; v. 286; p. 780.
Benner, Russell E., Flint, Mich. Radiator-core. No. 1,380,132; May 31; v. 286; p. 970.
Bennert, Carl, Coepenick, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treatment of textile fibers and fabrics. No. 1,379,381; May 24; v. 286; p. 755.
Bennett, Beatrice M., assignor to International Art Publishing Company, Philadelphia, Pa. Pictorial device. No. 1,379,739; May 31; v. 286; p. 896.
Bennett, Clarence H., Jamesburg, N. J. Gax-mixer. No. 1,379,437; May 24; v. 286; p. 765.
Bennett, Edward C. (See Adams, E. E., and Bennett.)
Bennett, G. R., *et al.* (See Taft, John A., assignor.)
Bennett, Harry J., assignor of one-third to S. J. Michelson and one-third to I. J. Lipsohn, Phoenix, Ariz. Rotary plow. No. 1,377,549; May 10; v. 286; p. 279.
Bennett, Harry M. (See Cantrall, Forrest L., assignor.)
Bennett, J. M., *et al.* (See Taft, John A., assignor.)
Bennington, Earl T., Colonial Heights, Ohio. Overhead-carrier system. No. 1,379,614; May 31; v. 286; p. 873.
Benson, Bradley L., San Francisco, Calif. Method and apparatus for spacing tiles and pasting same to paper. No. 1,379,160; May 24; v. 286; p. 712.
Benson, Madison H., Austin, Tex. Power-transmitting means. No. 1,379,846; May 31; v. 286; p. 916.
Bentley, Fred, Detroit, Mich. Spring-wheel. No. 1,379,517; May 24; v. 286; p. 780.
Benton, Edward L., Los Angeles, Calif. Wall structure and structural blocks for making same. No. 1,377,550; May 10; v. 286; p. 280.
Berckenhoff, Hemke, Hilversum, Netherlands. Cylindrical or sleeve valve. No. 1,377,798; May 10; v. 286; p. 328.
Berg, Richard O., assignor to Michigan Steel Tube Products Company, Detroit, Mich. Guide for tube-making machines. No. 1,378,992; May 24; v. 286; p. 681.
Berge, Erik J., Bayati, Cuba. Grate. No. 1,378,086; May 17; v. 286; p. 436.
Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,378,087; May 17; v. 286; p. 436.
Berger, Joseph, Spalding, Nebr. Draft appliance for harrows. No. 1,379,518; May 24; v. 286; p. 781.
Berger Manufacturing Company, The. (See Mainerl, Daniel L., assignor.)
Bergésoler, Edward, *et al.* (See Hayda, Oscar, assignor.)
Bergman, Jerome E., Buffalo, N. Y. Wrench. No. 1,378,209; May 17; v. 286; p. 459.
Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Driving system for automobiles. No. 1,387,514; May 17; v. 286; p. 517.
Bergstedt, Frans E., Racine, Wis. Vise. No. 1,379,382; May 24; v. 286; p. 755.
Berkeley, Laurence J., Milwaukee, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,379,383; May 24; v. 286; p. 755.
Berkeley, Laurence J., Milwaukee, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,379,384; May 24; v. 286; p. 756.
Bernero, Floyd W., Memphis, Tenn. Belt-lacing applier. No. 1,378,759; May 17; v. 286; p. 564.
Bernotow, Dominik M., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill. Box-forming machine. No. 1,378,579; May 17; v. 286; p. 529.
Bernotow, Dominik M., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill. Machine for setting up and folding cartons. No. 1,378,580; May 17; v. 286; p. 529.
Bernotow, Dominik M., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill. Machine for lining cartons. No. 1,378,581; May 17; v. 286; p. 529.
Beron, Frank G., assignor to F. P. Guilfoile, Waterbury, Conn. Demountable rim. No. 1,378,397; May 17; v. 286; p. 494.
Berres, Mathias, Hamtramck, Mich. Combined shoulder-brace and trousers-supporter. No. 1,377,387; May 10; v. 286; p. 249.
Berry, Alfred L., Lincoln, Nebr. Collapsible luggage-holder. No. 1,378,210; May 17; v. 286; p. 459.
Berry, Arthur F., London, England, assignor to General Electric Company. Electric heating device. No. 1,378,515; May 17; v. 286; p. 517.
Berry, Charles H., Detroit, Mich. Compensating gage. No. 1,376,505; May 3; v. 286; p. 24.
Berry, Golden, Checotah, Okla. Air-draft motor. No. 1,380,036; May 31; v. 286; p. 952.
Berry, Robert C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Band-saw lubricator. No. 1,379,385; May 24; v. 286; p. 750.
Berthon, Paul. (See Radisson, A., and Berthon.)
Beskin, Samuel, Norfolk, Va. Combination display-case. No. 1,376,506; May 3; v. 286; p. 24.
Best, Thomas, Detroit, Mich. Burial-case. No. 1,377,656; May 10; v. 286; p. 300.
Best, William J., Cleveland, Ohio. Gas-stove. No. 1,379,957; May 31; v. 286; p. 937.
Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Cast link provided with antifriction-rollers and making same. No. 1,379,896; May 31; v. 286; p. 925.
Bethlehem Steel Company. (See Fulda, Edward, assignor.)
Bethlehem Steel Company. (See Lachman, Laurence S., assignor.)
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Beutel, Frederick C., *et al.* (See Ziegler, George J., assignor.)
Beyer, Frederick N., and J. H. Lounge, Chicago, Ill. Apparatus for treating liquids. No. 1,378,314; May 17; v. 286; p. 479.
Bezold, John, Jersey City, N. J. Convertible chair. No. 1,377,868; May 10; v. 286; p. 341.
Biddlecom, Roy W., and L. B. Girard, Los Angeles, Calif. Automobile-top converter. No. 1,377,388; May 10; v. 286; p. 249.
Biflex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
Bigelow, Robert J., Santa Anna, Tex. Well-liner clamp. No. 1,380,182; May 31; v. 286; p. 980.
Biggs, Robert H., St. Catharines, Ontario, Canada. Advertising device for paper-tape-magazine holders. No. 1,377,180; May 10; v. 286; p. 208.

Biggs, Robert H., St. Catharines, Ontario, Canada. Advertising device for paper-tape-magazine holders. No. 1,377,181; May 10; v. 286; p. 208.

Billings, Frank, and R. P. Greenleaf; said Greenleaf assignor to said Billings, Cleveland, Ohio. Loading-machine. No. 1,377,303; May 10; v. 286; p. 233.

Billings, Joseph, Brooklyn, N. Y. Automobile-plate and holder. No. 1,379,438; May 24; v. 286; p. 765.

Billingsley, Percy L., assignor to Atlas Manufacturing Company, Orlando, Fla. Jack-gear. No. 1,376,507; May 3; v. 286; p. 24.

Biondo, Philip M., assignor of one-third to J. Messina and one-third to C. Ciravola, Brooklyn, N. Y. Crayon-holder. No. 1,377,182; May 10; v. 286; p. 209.

Birkett, Thomas. (See Corry, James A., assignor.)

Bisaillon, Hector E. (See Mills, W. S., and Bisaillon.)

Bishop, Howard B. (See Mullen, George W., assignor.)

Bissell Carpet Sweeper Company. (See Owen, I. J., and Bouwneester, assignors.)

Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Cutting-machine. No. 1,378,935; May 24; v. 286; p. 671.

Bitler, William H. (See Baer, T., and Bitler.)

Bjorkman, Axel E., Saugus, Mass. Thread-measuring apparatus. No. 1,377,959; May 10; v. 286; p. 359.

Bjornsen, John, Philadelphia, Pa. Cereal-dish. No. 1,379,519; May 24; v. 286; p. 781.

Black, Alonzo C., and J. D. Clark, Des Moines, Iowa. Locking-valve for fuel-tanks. No. 1,377,389; May 10; v. 286; p. 250.

Black Products Co. (See Fairchild, Clifford J., assignor.)

Black, Ralph, New York, N. Y. Spool-rack. No. 1,377,052; May 3; v. 286; p. 128.

Black, Walter A., Rocky Ford, Colo. Tire-core. No. 1,378,315; May 17; v. 286; p. 479.

Blackburn, Wilmuth E., Summit, N. J. Indicating mechanism for game apparatus. No. 1,377,869; May 10; v. 286; p. 342.

Blackledge, John W., Chicago, Ill. Shock-absorber for vehicles. No. 1,377,613; May 10; v. 286; p. 291.

Blackmore, John E. L., Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,376,600; May 3; v. 286; p. 42.

Blades, Charles A. (See List, Franz, assignor.)

Blaine, Walter E., U. S. Army. Automatic governor. No. 1,377,551; May 10; v. 286; p. 280.

Blair, Frank W. (See Clark, C. A., and Blair.)

Blair, Henry, San Ardo, Calif. Milk-pail attachment. No. 1,377,111; May 3; v. 286; p. 139.

Bland, J. C. W. (See Baird, M. B., and Walls, assignors.)

Blaw-Knox Company. (See Loxterman, Howard B., assignor.)

Bleesing, William, C. F. Howard, and S. A. Pexton, assignors to Chicago Novelty Co., Chicago, Ill. Toy. No. 1,379,740; May 31; v. 286; p. 896.

Blessington, Stephen G., Haverhill, and A. H. Cosgrove, Boston, assignors to American Lacing Hook Co., Waltham, Mass. Lacing-stud-setting machine with reinforcing-tape therefor. No. 1,377,657; May 10; v. 286; p. 300.

Bliss, George H., assignor to A. G. Bradish & Son, Inc., Boston, Mass. Cover-securing hoop. No. 1,378,649; May 17; v. 286; p. 543.

Bliss, Herbert R., Monroe, Mich. Constructing and sealing shipping-cases. No. 1,379,797; May 31; v. 286; p. 907.

Bloch, Harry E. (See Edison, Karl, assignor.)

Block, Alexander, New York, N. Y. Lock. No. 1,377,456; May 10; v. 286; p. 263.

Block, Alexander, New York, N. Y. Lock. No. 1,377,457; May 10; v. 286; p. 263.

Block, Alexander, New York, N. Y. Keeper. No. 1,377,458; May 10; v. 286; p. 263.

Block, Alexander E., St. Louis, Mo. Arch-support. No. 1,378,398; May 17; v. 286; p. 494.

Block, Joseph. (See Dam, Henry R., assignor.)

Blocker Toy Manufacturing Company. (See Greenstreet, Milfred L., assignor.)

Blomberg, Klas G., Söderteije, and B. A. Pettersson, Lidköping, Sweden. Device for feeding the wire in machines for production of dress-fasteners. No. 1,376,668; May 3; v. 286; p. 54.

Blood, Burr B., assignor to G. Heidman and N. A. Street, Chicago, Ill. Motor. No. 1,378,211; May 17; v. 286; p. 459.

Blood, Clinton R., Sturgeon Bay, Wis. Removable steering-wheel for automobiles. No. 1,378,316; May 17; v. 286; p. 479.

Bloom, Bertha, assignor to M. Schultz, Woodcliff, N. J. Jewelry-clasp. No. 1,377,552; May 10; v. 286; p. 280.

Bloom, Jacob E., Brooklyn, N. Y. Electrical treatment in the compounding of solids with gases or solids with solids and gases, including fertilizers, and apparatus therefor, and the products resulting therefrom. No. 1,377,553; May 10; v. 286; p. 280.

Bloom, Jacob E., Brooklyn, N. Y. Process and apparatus for the electrical utilization of molten slags. No. 1,377,554; May 10; v. 286; p. 280.

Blough, I. W., administratrix. (See Traphagan, Frank M., assignor.)

Blumenberg, Henry, Jr., Daggett, Calif. Process and apparatus for generating explosive gases. No. 1,379,077; May 24; v. 286; p. 696.

Blumenfeld, Harris D., Haverstraw, N. Y. Switch-lever-operating mechanism. No. 1,377,053; May 3; v. 286; p. 129.

Blumenthal, Maurice, Brooklyn, N. Y. Chair-mat. No. 1,379,958; May 31; v. 286; p. 937.

Boardman, Charles H., Columbus, Ohio. Combined crib and bed construction. No. 1,378,518; May 17; v. 286; p. 517.

Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Pile-puller. No. 1,376,856; May 3; v. 286; p. 91.

Bobo, Walter T., assignor to Battle Creek Appliance Co., Ltd., Battle Creek, Mich. Truss. No. 1,378,317; May 17; v. 286; p. 479.

Bock, Alfred C. O., Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,377,658; May 10; v. 286; p. 300.

Bodmer, Christian, assignor to The Stanley Works, New Britain, Conn. Saw-set. No. 1,378,650; May 17; v. 286; p. 543.

Boe, Hans M., Minneapolis, Minn. Grease-dispensing apparatus. No. 1,377,659; May 10; v. 286; p. 300.

Boe, Hans M., Minneapolis, Minn. Piston for grease-guns. No. 1,377,660; May 10; v. 286; p. 301.

Boe, John, Gravelbourg, Saskatchewan, Canada. Mechanical toy. No. 1,377,054; May 3; v. 286; p. 129.

Boehm, Edward, Tampa, Fla. Refrigerator and manufacturing the same. No. 1,378,003; May 17; v. 286; p. 419.

Boetter, Albert V. (See Benjamin, R. B., and Boetter.)

Bogert, Frank V., *et al.* (See Whitney, William A., assignor.)

Bognes, Harold M., Dayton, Ohio. Automobile-tire holder. No. 1,376,739; May 3; v. 286; p. 68.

Bohan, William J., St. Paul, Minn. Refrigerator-car. No. 1,376,794; May 3; v. 286; p. 78.

Bohner, H. E. (See Maize, Adam P., assignor.)

Böhnke, Erich, Brooklyn, N. Y. Slide-rule. No. 1,378,993; May 24; v. 286; p. 681.

Bohrnrich, Louis G. (See Knox, George F., assignor.)

Bohrsmann, Otto, *et al.* (See Newth, Basil, assignor.)

Boisen, Martin, Sandusky, Ohio. Gas-generator. No. 1,380,183; May 31; v. 286; p. 980.

Boisseau, Sterling, Richmond, Va. Punch. No. 1,377,055; May 3; v. 286; p. 129.

Boivin, André, Paris, France. Machine for manufacturing sugar loaves molded by compression. No. 1,379,847; May 31; v. 286; p. 916.

Bokemeyer, Charles H., assignor to The Alpha Timer and Accessories Company, Baltimore, Md. Timer for internal-combustion engines. No. 1,378,833; May 24; v. 286; p. 651.

Boker, Vitus A., Minneapolis, Minn. Traction-wheels. No. 1,376,394; May 3; v. 286; p. 3.

Boker, Vitus A., Minneapolis, Minn. Jar-cover remover. No. 1,376,395; May 3; v. 286; p. 4.

Bolander, John A., Berkeley, Calif. Banjo. No. 1,378,212; May 17; v. 286; p. 459.

Bolas, Harold, Clifton, Bristol, assignor to G. G. Parnall, Park Row, Bristol, England. Control of the ailerons and elevators of aircraft. No. 1,376,740; May 3; v. 286; p. 68.

Bologa, Nekifor, Cleveland, Ohio. Still. No. 1,379,520; May 24; v. 286; p. 781.

Bond, William G. (See Scott, H. P., and Bond.)

Bone, Matthew. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)

Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Railway-car wall construction. No. 1,379,386; May 24; v. 286; p. 756.

Bonsall, Thomas L. (See Baker, Clinton C., assignor.)

Boomsliter, Charles C., assignor of one-third to N. Kik, Grand Rapids, Mich. Changeable gear for automobiles. No. 1,379,675; May 31; v. 286; p. 884.

Booth, John W., Trenton, Ontario, Canada. Amplifier for sound-reproducing machines. No. 1,376,508; May 3; v. 286; p. 24.

Borchard, Robert W., assignor of one-half to J. J. Kane, Milwaukee, Wis. Method of and apparatus for forming molded hollow articles. No. 1,377,304; May 10; v. 286; p. 233.

Borglum, Torvald M., Reedsport, Oreg. Test-scale table. No. 1,376,997; May 3; v. 286; p. 117.

Borroughs, Joseph N., Oakland, Calif. Towel-holder. No. 1,379,848; May 31; v. 286; p. 843.

Borst, Andrew J., Jr., Buffalo, N. Y. Steam generator and superheater. No. 1,376,509; May 3; v. 286; p. 25.

Bosch, Carl, A. Mittasch, and C. Beck, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of oxids of nitrogen. No. 1,379,387; May 24; v. 286; p. 756.

Boss, William, St. Paul, Minn. Device for sprouting seeds. No. 1,376,998; May 3; v. 286; p. 118.

Boswell, George G. F., Indianapolis, Ind. Shock-absorber. (Reissue.) No. 15,113; May 31; v. 286; p. 1009.

Bosworth, George P., assignor, by mesne assignments, to Hemphill Manufacturing Company, Central Falls, R. I. Stocking-knitting machine. No. 1,377,459; May 10; v. 286; p. 263.

Bosworth, George P., assignor, by mesne assignments, to Hemphill Manufacturing Company, Central Falls, R. I. Stocking-knitting machine for making antiraveling courses. No. 1,377,460; May 10; v. 286; p. 263.

Bothne, Esther M. (See McLain, C. A., and Bothne.)

Bott, Joseph, assignor to Bastian Bros. Company, Rochester, N. Y. Wind-wheel. No. 1,379,439; May 24; v. 286; p. 765.

Botta, Ferruccio. (See Arato, Achille, assignor.)

Bottom, William G., Kansas City, Mo. Automatic fire-extinguishing apparatus. No. 1,379,615; May 31; v. 286; p. 873.

Bouchard, Louis O., Philadelphia, Pa. Hat-trimming machine. No. 1,379,078; May 24; v. 286; p. 696.

Bourdeaux, Bruno C. V., Evreux, France. Artificial eye. No. 1,379,741; May 31; v. 286; p. 896.

Boureau, Desiré V., Brooklyn, N. Y. Internal-combustion engine. No. 1,377,661; May 10; v. 286; p. 301.

Bouwmeester, Bernard J. (See Owen, I. J., and Bouwmeester.)

Bowen, Clarence S., Pickens, S. C. Hydraulic pump. No. 1,377,871; May 10; v. 286; p. 342.

Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,379,616; May 31; v. 286; p. 873.

Bower, George W., Schenectady, N. Y., assignor to General Electrical Company. Suspension for trolley-wires and the like. No. 1,378,519; May 17; v. 286; p. 518.

Bowman, Horace D., Salt Lake City, Utah. Spring-wheel. No. 1,376,795; May 3; v. 286; p. 78.

Bowser, Leslie E., Hobart, Okla. Toy woodpecker. No. 1,379,521; May 24; v. 286; p. 781.

Boyd, Andrew C. (See Sawyer, Walter H., assignor.)

Boyer, Alexander B., Riverside, Ill., assignor to American Rotary Engine Co., Grand Rapids, Wis. Driving mechanism for rotary machines. No. 1,378,088; May 17; v. 286; p. 436.

Boylan, Gove S., Washington, D. C. Take-up mechanism for kinetoscopes. No. 1,377,112; May 3; v. 286; p. 140.

Boyle, James L., Goodland, Kans. Steam-heated snowplow. No. 1,376,741; May 3; v. 286; p. 68.

Boyle, John D., New Rochelle, N. Y. Powder-container. No. 1,377,113; May 3; v. 286; p. 140.

Boyum, Hans O. N., Wing, N. D. Closure for boxes and other receptacles. No. 1,376,670; May 3; v. 286; p. 54.

Bozek, Albert, Gebo, Wyo. Beet-harvester. No. 1,377,393; May 10; v. 286; p. 250.

Brackett, Francis W., Colchester, England. Valve of pumps. No. 1,378,760; May 17; v. 286; p. 565.

Bradbury, Clifford C., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone system. No. 1,377,555; May 10; v. 286; p. 280.

Bradford Dyers' Association Limited. (See Thornber, John, assignor.)

Bradish, A. G., & Son. (See Bliss, George H., assignor.)

Bradley, Andrew J., New York, N. Y. Stencil-character punch and making same. No. 1,378,520; May 17; v. 286; p. 518.

Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Precipitator for hot gases. No. 1,379,897; May 31; v. 286; p. 925.

Bradnack, John H., New Haven, Conn. Self-lubricating piston for air-pumps. No. 1,376,857; May 3; v. 286; p. 91.

Bradshaw, John H. (See Stroup, George C., assignor.)

Brandt Cashier Company. (See Madelbaum, M. H., and Webster, assignors.)

Brainerd, Frank E., Stony Creek, Conn. Paving-block. No. 1,379,440; May 24; v. 286; p. 765.

Brainerd, Leigh D., Chicago, Ill. Electric lantern. No. 1,380,091; May 31; v. 286; p. 963.

Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Collar-shaping machine. No. 1,380,331; May 31; v. 286; p. 1008.

Brandenburg, George A., St. Francis, Kans. Attachment for tape-measures. No. 1,380,184; May 31; v. 286; p. 980.

Brandenstein, M. J., & Co. (See Burns, Wilford E., assignor.)

Brant, Paul, Bristol, Ind., and H. T. Wilson, Petoskey, Mich.; said Wilson assignor of his entire right to V. N. Brant, Bristol, Ind. Leather-making. No. 1,378,213; May 17; v. 286; p. 459.

Brant, Victor N. (See Brant, P., and Wilson, assignor.)

Brassington, William B., Port Richmond, N. Y. Valve. No. 1,379,388; May 24; v. 286; p. 756.

Brassington, William B., Port Richmond, N. Y. Valve. No. 1,379,389; May 24; v. 286; p. 756.

Braunschweig, Fred W., Milwaukee, Wis. Aeroplane. No. 1,379,390; May 24; v. 286; p. 757.

Breckenridge, Francis C., Providence, R. I., assignor to American Thermophone Company, Boston, Mass. Transmitter. No. 1,377,144; May 3; v. 286; p. 146.

Breed, Charles W., Western Springs, Ill. Switch-stand. No. 1,380,037; May 31; v. 286; p. 952.

Breer, Carl. (See Jacobsen, C. H., and Breer.)

Brennan, John S., Milwaukee, Wis. Valve for oil-stove reservoirs. No. 1,376,858; May 3; v. 286; p. 91.

Brennan, John S., Milwaukee, Wis. Fuel-reservoir. No. 1,376,859; May 3; v. 286; p. 91.

Brenner, Henry, New York, N. Y. Cap for valve-stems. No. 1,379,676; May 31; v. 286; p. 884.

Bressler, Robert E., Hammond, assignor to O. F. Jordan Company, East Chicago, Ind. Railway-spreader. No. 1,376,510; May 3; v. 286; p. 25.

Brevig, Johannes H. (See Andersen, W. G., and Brevig.)

Brewer, Oscar Z., Spokane, Wash. Timing mechanism. No. 1,378,318; May 17; v. 286; p. 479.

Brewster, Theodore J., Perth Amboy, N. J. Process of nitrating benzol. No. 1,380,185; May 31; v. 286; p. 980.

Brewster, Theodore J., Perth Amboy, N. J. Making nitrophenolic compounds. No. 1,380,186; May 31; v. 286; p. 980.

Bridgman, Percy W. (See Emerson, C. P., and Bridgman.)

Bridgman, Percy W., Cambridge, Mass. Vibration-absorbing mounting. No. 1,377,556; May 10; v. 286; p. 281.

Briggs, Charles A. (See Cooper, Hamilton A., assignor.)

Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)

Briggs, Stephen F., and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Lock-switch. No. 1,377,145; May 3; v. 286; p. 146.

Brigham, Edwin T., Kansas City, Mo., assignor to J. Rousso, Los Angeles, Calif. Towel-rack. No. 1,378,214; May 17; v. 286; p. 459.

Brinley, William, and W. Collins, Benton, Ill. Coal-washer. No. 1,378,521; May 17; v. 286; p. 518.

British Metal and Toy Manufacturers Limited, The. (See Hazelton, George, assignor.)

British Westinghouse Electric and Manufacturing Company. (See Guy, Henry L., assignor.)

Brixey, Austin D., New York, N. Y., assignor to Ordinator Company, Inc. Multiple shade-roller. No. 1,377,461; May 10; v. 286; p. 264.

Brock, Addison W., assignor to H. Gamse & Bro., Baltimore, Md. Bronzing-machine. No. 1,377,056; May 3; v. 286; p. 129.

Brock, Joseph, assignor of one-eighth to E. Demuling and five per cent. to J. J. Grant, Erie, Pa. Horseshoe-punching machine. No. 1,377,799; May 10; v. 286; p. 328.

Brockett, Frederick G., Chicago, Ill. Shutter mechanism for cameras. No. 1,378,936; May 24; v. 286; p. 671.

Broderick, Arthur F., Jersey City, N. J. Locking device for automobiles. No. 1,376,999; May 3; v. 286; p. 118.

Brodowski, John F., Milwaukee, Wis. Sash-fastener. No. 1,379,959; May 31; v. 286; p. 938.

Brodu, François-Louis, Nantes, France. Adjustable work-holder for machine-tools and the like. No. 1,380,287; May 31; v. 286; p. 999.

Broider, Louis, *et al.* (See Wagner, Michael, assignor.)

Brolt Limited. (See Holt, William, assignor.)

Bronnert, Emile, Mülhausen, Alsace-Lorraine, France. Recovering salts formed in the manufacture of artificial silk. No. 1,376,671; May 3; v. 286; p. 54.

Bronnert, Emile, Mülhausen, Alsace-Lorraine, France. Manufacture of viscose silk. No. 1,376,672; May 3; v. 286; p. 55.

Bronson, George. (See Houseman, W. H., and Bronson.)

Brooks, Hugh A., Bainbridge, Ga. Lathe-chuck. No. 1,378,319; May 17; v. 286; p. 479.

Brooks, John C., Paterson, N. J. Loom. No. 1,377,390; May 10; v. 286; p. 250.

Brooks, S. J., *et al.* (See Taft, John A., assignor.)

Brooks, Winfred M., West Orange, N. J. Sealing mechanism. No. 1,380,038; May 31; v. 286; p. 952.

Brose, Carrie H., San Diego, Calif. Measurer and gage. No. 1,380,187; May 31; v. 286; p. 980.

Brouillard, Donat, Haverhill, Mass. Lifting-tackle. No. 1,377,870; May 10; v. 286; p. 342.

Brown & Bigelow. (See Kristofek, Frank J., assignor.)

Brown, Christopher, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Edge grinding and polishing machine. No. 1,380,133; May 31; v. 286; p. 970.

Brown Company. (See Richter, George A., assignor.)

Brown, Egbert S., East Savannah, Ga. Conveyer. No. 1,377,800; May 10; v. 286; p. 328.

Brown, Frank A., Indianapolis, Ind., assignor to G. & J. Tire Company. Vulcanizing-pad. No. 1,379,391; May 24; v. 286; p. 757.

Brown, George F., Moorhead, Minn., assignor to The International Patent Investment Company, Fargo, N. D. Grain-drying process. No. 1,377,662; May 10; v. 286; p. 301.

Brown, Henry L., Atlantic City, N. J. Holder. No. 1,378,807; May 17; v. 286; p. 573.

Brown, Herbert L., Petersburg, Va. Bottle-capping machine. No. 1,379,161; May 24; v. 286; p. 713.

Brown Hoisting Machinery Company, The. (See Larkworthy, Frederick W., assignor.)

Brown, Hugh, Battle Creek, Mich., assignor, by mesne assignments, to Wirebounds Patents Company. Box or crate. (Reissue.) No. 15,100; May 10; v. 286; p. 367.

Brown, John B., Belleville, assignor of one-half to L. Cannold, East Orange, N. J. Self-closing container. No. 1,377,801; May 10; v. 286; p. 329.

Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,376,396; May 3; v. 286; p. 4.

Brown, John W., and W. Hess, assignors to Benjamin P. Obdyke, Inc., Philadelphia, Pa. Seaming apparatus. No. 1,377,305; May 10; v. 286; p. 233.

Brown, John W., and W. Hess, assignors to Benjamin P. Obdyke, Inc., Philadelphia, Pa. Sheet-metal-seaming machine. No. 1,378,651; May 17; v. 286; p. 543.

Brown, Lyman D., Flint, Mich. Vehicle-wheel. No. 1,378,399; May 17; v. 286; p. 495.

Brown, Oran K., Evanston, Ill. Cultivator attachment for tractor. No. 1,378,994; May 24; v. 286; p. 681.

Brown, Ray M., Yonkers, N. Y. Locomotive driving-axle journal-box. No. 1,377,557; May 10; v. 286; p. 281.

Brown, Theophilus M., assignor of one-third to H. P. Parker and one-third to R. J. Howland, Seattle, Wash. Ship's ventilator-cover. No. 1,379,162; May 24; v. 286; p. 713.

Brown, Theophilus M., Seattle, Wash. Ship's ventilating-cowl. No. 1,379,163; May 24; v. 286; p. 713.
Brown, William E., and P. C. Seegmueller, Detroit, Mich. Chuck. No. 1,377,663; May 10; v. 286; p. 301.
Brownell, William M., Brooklyn, N. Y. Drier. No. 1,378,808; May 17; v. 286; p. 574.
Brownyard, George W., Los Angeles, Calif. Automobile-wheel construction. No. 1,379,079; May 24; v. 286; p. 697.
Bruckman, Frederick A., Portland, Oreg. Stop mechanism for pastry-making machines. No. 1,379,080; May 24; v. 286; p. 697.
Bruckner, Rudolph E., New York, N. Y. Liquid service-gage. No. 1,378,440; May 17; v. 286; p. 502.
Bruner, Garland D., Urbana, Mo. Aircraft. No. 1,379,522; May 24; v. 286; p. 781.
Brunhoff, Edward, Cincinnati, Ohio. Display-lid. No. 1,379,677; May 31; v. 286; p. 885.
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Brunswick, Leonard R., Superior, Wis. Electrical boiler. No. 1,378,761; May 17; v. 286; p. 565.
Brush, Alanson P., Detroit, Mich. Dual control of mechanism. No. 1,377,306; May 10; v. 286; p. 233.
Bryant, Stanley C., Chicago, Ill. Highway-crossing signal. No. 1,379,678; May 31; v. 286; p. 885.
Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Recording lock system. No. 1,376,796; May 3; v. 286. p. 79.
Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Synchronizing clock systems. No. 1,377,000; May 3; v. 286; p. 118.
Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Recording-lock. No. 1,378,652; May 17; v. 286; p. 544.
Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Secondary clock. No. 1,378,653; May 17; v. 286; p. 544.
Buchanan, Edgar, Saline, Kans. Street-traffic signal. No. 1,378,320; May 17; v. 286; p. 480.
Buchanan, James R., Huntsville, Ala. Industrial car-record book. No. 1,378,654; May 17; v. 286; p. 544.
Buchanan, Robert S. (See Murray, J. A., and Buchanan.)
Buchanan, Vita, New York, N. Y. Corset. No. 1,377,614; May 10; v. 286; p. 292.
Buckeye Steel Castings Company, The. (See Johnson, G. T., and Stertzbach, assignors.)
Buckley, Arthur H., Sydney, New South Wales, Australia. Combination-lock for automobiles. No. 1,377,307; May 10; v. 286; p. 234.
Buckley, John P., Capitol View Park, Md. Advertising-card. No. 1,379,392; May 24; v. 286; p. 757.
Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Cutting-torch. No. 1,377,001; May 3; v. 286; p. 118.
Budd, Thomas D., Chicago, assignor of one-half to Link-Belt Company, Chicago, Ill., and one-half to James Stewart & Company, Inc., New York, N. Y. Grain-car-handling apparatus. No. 1,378,089; May 17; v. 286; p. 436.
Budinich, John, West New York, N. J. Outside finish for frame houses. No. 1,379,330; May 24; v. 286; p. 745.
Buerger, Charles B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Control system for oil-burners. No. 1,377,308; May 10; v. 286; p. 234.
Buettner, Charles H., Cincinnati, Ohio. Lubricating apparatus. No. 1,379,331; May 24; v. 286; p. 746.
Buffalo Equipment & Construction Company. (See Weigen, Henry, assignor.)
Buffalo Pressed Steel Co. (See MacKenzie, R. J., and Haas, assignors.)
Bugbee, Lucian W., assignor to Twinsight Optical Co., Indianapolis, Ind. Bifocal lens and making the same. No. 1,376,673; May 3; v. 286; p. 55.
Bugenhagen, George H., Minot, N. D. Lawn-swing. No. 1,378,004; May 17; v. 286; p. 420.
Buhr, Joseph F., Detroit, assignor to Detroit Pneumatic Chuck Company, Flat Rock, Mich. Pneumatic motor. No. 1,377,745; May 10; v. 286; p. 316.
Buimistroff, Wladimir W., Washington, D. C. Direction-indicator for closed automobiles. No. 1,379,245; May 24; v. 286; p. 728.
Bukolt, John J., Stevens Point, Wis. Drawbar for tractors. No. 1,378,005; May 17; v. 286; p. 420.
Bull, Arthur W., Haverford, Pa. Cream-chip composition. No. 1,378,762; May 17; v. 286; p. 565.
Bull Dog Lock Washer Co., The. (See Holmes, G. R., and Wisch, assignors.)
Bullis, Elbern E., Rouse Point, N. Y. Display-rack and holding means. No. 1,379,164; May 24; v. 286; p. 713.
Bullock, Arthur R., Lakewood, Ohio. Electrolytic process for the treatment of carbon. No. 1,378,834; May 24; v. 286; p. 651.
Bullock, Edward W. (See Stewart, A. L., Bullock, and Earl.)
Bump, Nelson P., Bridgeport, Conn., assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Gun-stock for rifles, guns, and small-arms. No. 1,376,917; May 3; v. 286; p. 103.
Bunell, Homer A. (See Burtnett, Everett R., assignor.)
Bunker, Charles A., Kansas City, Mo. Stopper for containers. No. 1,378,995; May 24; v. 286; p. 682.
Bunte Brothers. (See Bernotow, Dominick M., assignor.)
Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air-bag and wrapping the same. No. 1,379,598; May 24; v. 286; p. 795.
Burger, Ellsworth, Ridgewood, N. J., assignor to American Abrasive Metals Company, New York, N. Y. Vault-cover. No. 1,377,802; May 10; v. 286; p. 329.
Burgess, Earl F., Racine, Wis. Vehicle-spring-retaining means. No. 1,379,798; May 31; v. 286; p. 907.
Burgess, Louis, New York, N. Y., assignor to Standard Oil Company. Reducing aluminum oxid. No. 1,379,523; May 24; v. 286; p. 782.
Burgess, Walter S. (See Voight, George F., assignor.)
Burk, Joe E., San Bernardino, Calif. Rim-contractor. No. 1,379,679; May 31; v. 286; p. 885.
Burkam, John. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Burke & James. (See Davis, Ernest W., assignor.)
Burke, John H., and O. A. Wilming, San Jose, Calif. Vacuum-chuck. No. 1,377,558; May 10; v. 286; p. 281.
Burke, William J., San Francisco, Calif. Camp table and box. No. 1,378,441; May 17; v. 286; p. 503.
Burnett, Ira A., Chicago, Ill. Attachment for pulleys. No. 1,376,742; May 3; v. 286; p. 68.
Burnham, Francis H., Brockton, Mass. Trolley-controlling device. No. 1,376,918; May 3; v. 286; p. 103.
Burns, Robert L., and F. F. Winger, Taft, Calif. Sucker-rod attachment to prevent sanding up of well-pumps. No. 1,379,165; May 24; v. 286; p. 713.
Burns, Wilford E., assignor to M. J. Brandenstein & Co., San Francisco, Calif. Can-testing machine. No. 1,378,215; May 17; v. 286; p. 460.
Burns, William J., Detroit, Mich. Camp kit. No. 1,377,301; May 10; v. 286; p. 250.
Burpee, Edward A., Renton, Wash. Tool for restoring swage-bits. No. 1,378,000; May 17; v. 286; p. 420.
Burrmann, Henry, Davenport, Iowa. Rolling-hoop advertiser. No. 1,376,601; May 3; v. 286; p. 42.
Burritt, Raymond K., Seligman, Ariz. Refrigerator. No. 1,380,188; May 31; v. 286; p. 981.
Burroughs, Charles E., Cincinnati, Ohio. Propeller. No. 1,378,655; May 17; v. 286; p. 544.
Burruss, Albert E. (See Fulwider, O. M., and Burruss.)
Burt, Clement P., Wallis, Tex. Stock-chute for dipping-vats. No. 1,380,189; May 31; v. 286; p. 981.
Burt, James H., Springfield, Mass., assignor to Thrift-Garter Co. Inc., New York, N. Y. Garment-supporter. No. 1,378,656; May 17; v. 286; p. 544.
Burt Machine Company. (See Wild, Charles H., assignor.)
Burtnett, Everett R., assignor of one-half to H. A. Bunell, Los Angeles, Calif. Engine. No. 1,377,462; May 10; v. 286; p. 264.
Bush, Elmo J., East St. Louis, Ill. Portable bathing apparatus. No. 1,377,803; May 10; v. 286; p. 329.
Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Electrically-operated semaphore-signal. No. 1,377,392; May 10; v. 286; p. 250.
Butler, George P., assignor to Winchester Repeating Arms Co., New Haven, Conn. Expansion-bit. No. 1,379,332; May 24; v. 286; p. 746.
Butler, Jay E., Baltimore, Md. Piston-ring. No. 1,379,246; May 24; v. 286; p. 729.
Button, Leon A., New Berlin, N. Y. Fertilizer or manure distributer. No. 1,377,664; May 10; v. 286; p. 302.
Buttram, Henry, Moran, Iowa. Tool for removing drillings from bores. No. 1,377,665; May 10; v. 286; p. 302.
Byck, Lawrence C., Perth Amboy, N. J. Enlarging-easel. No. 1,377,304; May 10; v. 286; p. 251.
Byers, A. M., Company. (See Aston, James, assignor.)
Bylger, Frans I. L., Jersey City, N. J. Rotary engine. No. 1,376,397; May 3; v. 286; p. 4.
Byllesby, H. M., & Company. (See Welch, W. J., and Tracy, assignors.)
Byron, Thomas F., Chicago, Ill. Curtain-rod holder. No. 1,377,666; May 10; v. 286; p. 302.
C. L. I. Manufacturing Company. (See Watson, Ernest A., assignor.)
Cadenhead, John T., Ensley, Ala. Demountable-rim construction. No. 1,378,763; May 17; v. 286; p. 565.
Cadenhead, John T., Ensley, Ala. Demountable rim. No. 1,378,764; May 17; v. 286; p. 565.
Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
Cain, John W., Chicago, Ill. Windshield-wiper for vehicles. No. 1,378,090; May 17; v. 286; p. 436.
Calico Printers' Association Limited, The. (See Roberts, Charles, assignor.)
California Cap Company. (See Oliver, Albert L., assignor.)
Calk, Alonzo E., Brady, Tex. Cultivator-fender. No. 1,377,183; May 10; v. 286; p. 209.
Calkins, Howard F. (See Edgerton, J. A., and Calkins.)
Callahan, Charles J., Providence, R. I. Collar-holder. No. 1,377,804; May 10; v. 286; p. 329.
Callery, William S., Wheatland, Calif. Apparatus for skinning cattle. No. 1,377,872; May 10; v. 286; p. 342.
Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle-sealing machine. No. 1,377,395; May 10; v. 286; p. 251.
Camba, Carlos M., Habana, Cuba. Traffic-signal. No. 1,376,398; May 3; v. 286; p. 4.

Camell, Ramon, Rhône, L. Cochet and J. Gritte, Lyon, assignors to Societe Lyonnaise Des Richauds Catalytiques, Camell, Cochet, Gritte & Cie., (Societe en Commandate,) Rhone, France. Apparatus for heating by catalysis. No. 1,379,742; May 31; v. 286; p. 897.
Cameron, John S., Elliott, Ill. Ash-pan. No. 1,377,463; May 10; v. 286; p. 264.
Cameron, William W., La Crosse, Wis., assignor, by mesne assignments, to F. Gerlach and A. R. Keller, trustees, Chicago, Ill. Tractor-plow. No. 1,377,057; May 3; v. 286; p. 129.
Campbell, Chester I. (See Johnson, Walter H., assignor.)
Campbell, Clinton A., assignor to The Imperial Underwear Company, Piqua, Ohio. Undergarment. No. 1,376,674; May 3; v. 286; p. 55.
Campbell, Frank A., *et al.* (See Carpenter, Samuel D., assignor.)
Campbell, George J., assignor to Lane Brothers Company, Poughkeepsie, N. Y. Lifting-jack. No. 1,376,511; May 3; v. 286; p. 25.
Campbell, Henry W. (See Williams, Glen L., assignor.)
Campbell, Jesse T., Elbridge, Tenn. Try-square. No. 1,379,849; May 31; v. 286; p. 917.
Campbell, Melvin H. (See Griffin, J. T., Nelson, and Campbell.)
Campbell, Ronald E., assignor to C. C. Wilson, Columbia, S. C. Attachment for smoothing-irons. No. 1,376,512; May 3; v. 286; p. 25.
Campbell, Ronald E., assignor to C. C. Wilson, Columbia, S. C. Safety attachment for electric irons. No. 1,376,513; May 3; v. 286; p. 25.
Campbell, Torquil, Vancouver, British Columbia, Canada. Grain-door. No. 1,379,081; May 24; v. 286; p. 697.
Campion, George G., Manchester, England. Röntgen-ray and like apparatus. No. 1,378,007; May 17; v. 286; p. 420.
Canward Engineering Co., The. (See Howard, John A., Sr., assignor.)
Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Centrifugal fan. No. 1,378,008; May 17; v. 286; p. 420.
Canella, Frank O., Mason City, Iowa. Rail-joint. No. 1,378,009; May 17; v. 286; p. 421.
Cannold, Lester. (See Brown, John B., assignor.)
Cannon, George W., Muskegon, Mich. Molding-flask. No. 1,376,602; May 3; v. 286; p. 42.
Canova, Philip J., Jr., and C. E. Egan, Charleston, W. Va. Fire-extinguisher. No. 1,379,850; May 31; v. 286; p. 917.
Cantrall, Forrest L., assignor to H. M. Bennett, Oakland, Calif. Automobile-engine stop. No. 1,377,002; May 3; v. 286; p. 119.
Capewell, William R. H., Jamesburg, assignor of one-fourth to W. Heinrich, Merchantville, N. J. Valve. No. 1,380,307; May 31; v. 286; p. 1003.
Car Dumper & Equipment Company. (See Simpson, G. N., and Williams, assignors.)
Carbon Products Company. (See Rendall, George F., assignor.)
Cardone, Paul. (See Fumagalli, G., Surico, and Cardone.)
Carswell, Charles E., assignor of one-third to W. Baird, Houston, Tex. Self-closing bundle-receptacle. No. 1,377,114; May 3; v. 286; p. 140.
Carlisle, Bert, Santa Ana, Calif. Searchlight for motor-vehicles. No. 1,380,313; May 31; v. 286; p. 1004.
Carlson, Elnar F., Chicago, Ill. Shaft-coupling. No. 1,378,091; May 17; v. 286; p. 437.
Carlson, Emanuel, Yonkers, and M. W. Richard, New York, N. Y.; said Richard assignor to said Carlson. Shade-roller. No. 1,379,898; May 31; v. 286; p. 926.
Carlson, Frituff, Detroit, Mich. Pushing device for motor vehicles. No. 1,378,321; May 17; v. 286; p. 480.
Carlson, Hjalmar G. (See Rockwood, G. I., and Carlson.)
Carlson, Oscar F., Chicago, Ill. Valve-gear and control mechanism for engines and the like. No. 1,380,092; May 31; v. 286; p. 963.
Carman, Edwin S., and E. F. Oyster, assignors to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Automatic cut-off for air jolt-machines. No. 1,379,799; May 31; v. 286; p. 907.
Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Internal-combustion engine. No. 1,378,092; May 17; v. 286; p. 437.
Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Valve mechanism for internal-combustion engines. No. 1,378,093; May 17; v. 286; p. 437.
Carnegie, Alfred L. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
Carnes Artificial Limb Co. (See Carnes, William T., assignor.)
Carnes, William T., assignor to Carnes Artificial Limb Co., Kansas City, Mo. Lathe. No. 1,379,393; May 24; v. 286; p. 757.
Carney, James P., Detroit, Mich., assignor of one-half to C. E. Long, Chicago, Ill. Emergency-knuckle for car-couplings. No. 1,379,960; May 31; v. 286; p. 938.
Caron Brothers. (See Lavallae, Joseph O. W., assignor.)
Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,378,010; May 17; v. 286; p. 421.
Carpenter, Ira L., assignor of one-half to W. E. Ayres, Los Angeles, Calif. Trolley-retriever. No. 1,380,314; May 31; v. 286; p. 1004.
Carpenter, Samuel D., assignor of one-third to F. E. Lamb and one-third to F. A. Campbell, St. Louis, Mo. Washing-machine. No. 1,379,247; May 24; v. 286; p. 729.
Carpmill, John F., New Britain, Conn. Buckle. No. 1,376,919; May 3; v. 286; p. 103.
Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Rotary air-compressor. No. 1,379,248; May 24; v. 286; p. 729.
Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
Carrie Gyroscopic Corporation, The. (See Rossiter, George A., assignor.)
Carrier Engineering Corporation. (See Stacey, Alfred E., Jr., assignor.)
Carroll, Houston M., Sr., San Antonio, Tex. Washing-machine. No. 1,379,851; May 31; v. 286; p. 917.
Carter, Charles H., assignor to M. M. Sterling, Brooklyn, N. Y. Culinary implement. No. 1,378,522; May 17; v. 286; p. 518.
Carter, Frederic E., Newark, N. J., assignor to Baker & Company, Inc. Alloy. No. 1,378,996; May 24; v. 286; p. 682.
Carter, James A., St. Louis, Mo. Wheel. No. 1,376,603; May 3; v. 286; p. 43.
Carter, James A., St. Louis, Mo. Vehicle-wheel. No. 1,379,441; May 24; v. 286; p. 765.
Cary, William N., Albany, N. Y., assignor to The American Equipment Company. Brick-carrying frame. No. 1,377,667; May 10; v. 286; p. 302.
Casaroth, Romeo A., Nicasio, Calif. Milking-machine. No. 1,378,800; May 31; v. 286; p. 907.
Case, Egerton R., Toronto, Ontario, Canada. Method of and means for treating air. No. 1,378,094; May 17; v. 286; p. 437.
Case, Egerton R., Toronto, Ontario, Canada. Electric device for treating air. No. 1,378,095; May 17; v. 286; p. 437.
Case, J. I., Plow Works Company. (See Hendricksou, Robert O., assignor.)
Case, Theodore W., Scipio, N. Y. Producing photo-electric cells. No. 1,376,604; May 3; v. 286; p. 43.
Case, Theodore W., Scipio, N. Y. Photo-electric cell. No. 1,376,605; May 3; v. 286; p. 43.
Case, Theodore W., Scipio, N. Y. Photo-electric cell. No. 1,376,606; May 3; v. 286; p. 43.
Case, Theodore W., Scipio, N. Y. Radiant-energy signaling system. No. 1,379,166; May 24; v. 286; p. 714.
Case, Theodore W., Scipio, N. Y. Wireless receiver. No. 1,379,167; May 24; v. 286; p. 714.
Case, William W., Frenchtown, assignor to W. H. Fulper, Flemington, N. J. Rocket. No. 1,376,797; May 3; v. 286; p. 79.
Cash, Albert, Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Block-leveler. (Reissue.) No. 15,098; May 3; v. 286; p. 150.
Caspar, Charles H., Philadelphia, Pa. Aircraft. No. 1,376,675; May 3; v. 286; p. 55.
Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Friction ratchet-gear. No. 1,377,559; May 10; v. 286; p. 281.
Cassell, William E., Fort Scott, Kans. Dispensing-cabinet. No. 1,379,524; May 24; v. 286; p. 782.
Cast Steel Ship Corporation. (See Hill, Myron F., assignor.)
Castleberry, William T., Artesia, N. Mex. Folding gate. No. 1,377,396; May 10; v. 286; p. 251.
Castro, Guillermo P., New York, N. Y. Trouble-finder for internal-combustion engines. No. 1,378,937; May 24; v. 286; p. 671.
Catanzano, Geroiamo, Somerville, Mass. Propeller. No. 1,380,093; May 31; v. 286; p. 963.
Cates, Calvin S., and W. Peters; said Peters assignor of one-half of his right to W. Eiffert, St. James, Mo. Lock for valves. No. 1,377,668; May 10; v. 286; p. 302.
Cathcart, Charles W., Alexandria, Va. Coupling. No. 1,379,899; May 31; v. 286; p. 926.
Catucci Pliny and L. D. Nadel, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Device for bending tubes. No. 1,379,168; May 24; v. 286; p. 714.
Caudron, René, Issy les Moulineaux, France. Detachable fuel-tank. No. 1,379,525; May 24; v. 286; p. 782.
Cavanaugh, Clarence W., Gloucester, Mass. Baby-swing. No. 1,379,082; May 24; v. 286; p. 697.
Cawthon, Samuel C. (See Ashbaugh, R. P., and Cawthon.)
Cecka, Albert, Minneapolis, Minn. Automobile-fender. No. 1,378,322; May 17; v. 286; p. 480.
Cederblad, Harold, San Francisco, Calif. Toy. No. 1,378,765; May 17; v. 286; p. 565.
Chadick, William H., Suffern, N. Y. Safety device for hydrocarbon-burners. No. 1,377,873; May 10; v. 286; p. 343.
Chain Belt Company. (See Bethke, Leo, assignor.)
Chalfant, William E., Glenside, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Corrugating cylindrical bodies. No. 1,378,442; May 17; v. 286; p. 503.
Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Company, Depew, N. Y. Plate for storage batteries and making same. No. 1,376,920; May 3; v. 286; p. 103.
Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Company. Storage-battery plate and making same. No. 1,379,900; May 31; v. 286; p. 926.

Chamberlin Metal Weather Strip. (See Glaser, Joseph P., assignor.)
Champion Blower & Forge Company. (See Keiper, Henry B., assignor.)
Champion Kerosene-Burner Company, The. (See Hill, Clarence A., assignor.)
Champion Shoe Machinery Company. (See Dobyne, George A. and S. A., assignors.)
Chance, Roy L., San Francisco, Calif. Lock-nut. No. 1,377,397; May 10; v. 286; p. 251.
Chandler, Elbert E., Eagle Rock, Calif. Tractor or other automotive vehicle. No. 1,376,921; May 3; v. 286; p. 103.
Chandler, Elbert G., Portland, Oreg. Logging-truck. No. 1,380,315; May 31; v. 286; p. 1004.
Chané, Maurice, Rouen, France. Method of and apparatus for the production of weft or cops on weft ring-spinning machines. No. 1,377,746; May 10; v. 286; p. 317.
Chané, Maurice, Rouen, France. Apparatus for the production of weft spools or cops on weft ring-spinning machines. No. 1,377,747; May 10; v. 286; p. 317.
Chapel, Jesse J., Packwaukee, Wis. Fish-bait. No. 1,377,309; May 10; v. 286; p. 234.
Chapin, William A., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,380,039; May 31; v. 286; p. 953.
Chapman, Albert, assignor to The Eagle Claw Tire Boot Company, Kellogg, Idaho. Automobile-boot. No. 1,378,766; May 17; v. 286; p. 566.
Chapman, John A., *et al.*, trustees. (See Sommer, William H., assignor.)
Chapman, Nathan C., Detroit, Mich. Hydrocarbon-burner. No. 1,378,323; May 17; v. 286; p. 480.
Charlton, Robert W., Pineville, assignor of one-half to H. H. Jordan, Rapides parish, La. Sound-reproducer. No. 1,378,835; May 24; v. 286; p. 651.
Chartier, Noel B., Providence, R. I. Comb-cleaning device. No. 1,377,310; May 10; v. 286; p. 234.
Chase Companies, The. (See Crane, Arthur T., assignor.)
Chase Companies, The. (See Wellington, Arthur W., assignor.)
Chat, Frank J., assignor to H. R. Gibbons, Chicago, Ill. Bed-elevating device. No. 1,378,096; May 17; v. 286; p. 437.
Chateauneuf, Frank, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,377,311; May 10; v. 286; p. 234.
Chateauneuf, Frank, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,377,312; May 10; v. 286; p. 235.
Chateauneuf, Frank, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,377,313; May 10; v. 286; p. 235.
Chayes, Herman E. S., New York, N. Y. Dental attachment. No. 1,380,040; May 31; v. 286; p. 953.
Cheak, Amy L., Waddy, Ky. Soap-dish. No. 1,380,288; May 31; v. 286; p. 999.
Chellus, George B., Bayonne, N. J. Bottle-filling machine. No. 1,379,249; May 24; v. 286; p. 729.
Chellis, Norman D., Erie, Pa. Machine and method for introducing tubes into tire-cases. No. 1,379,169; May 24; v. 286; p. 714.
Chemical Construction Company. (See Forbis, Rufus E., assignor.)
Chemical Equipment Company. (See La Bour, Harry E., assignor.)
Chemical Foundation, The. (See Bennert, Carl, assignor.)
Chemical Foundation, The. (See Bosch, C., Mittasch, and Beck, assignors.)
Chemical Foundation, The. (See Graf, Carl, assignor.)
Chemical Foundation, The. (See Lilienfeld, Leon, assignor.)
Chemical Foundation, The. (See Linz, Arthur, assignor.)
Chemical Foundation, The. (See Riesenfeld, Ernest H., assignor.)
Chemical Foundation, The. (See Tschelke, Fritz, assignor.)
Chertoff, George J., Cleveland, Ohio. Rubber-compounding mixture. No. 1,379,743; May 31; v. 286; p. 897.
Chestnut, Charles E., and W. A. Henderson, Calgary, Alberta, Canada. Tube-cleaner. No. 1,379,852; May 31; v. 286; p. 917.
Chicago-Cleveland Car Roofing Company. (See Munro, Roy C., assignor.)
Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
Chicago Fuse Mfg. Co. (See McDonald, Clarence T., assignor.)
Chicago Hardware Foundry Company. (See Cook, Fred W., assignor.)
Chicago Lino-Tabler Company. (See Hollister, William C., assignor.)
Chicago Novelty Co. (See Bleesing, W., Howard, and Pexton, assignors.)
Chicago Surgical and Electrical Company. (See Lidberg, Thodolf, assignor.)
Childers, Henry H., Louisville, Ky. Screening device. No. 1,380,289; May 31; v. 286; p. 1000.
Childs, Albert T., Pittsfield, Mass., assignor to General Electric Company. Temperature-indicator for transformers and the like. No. 1,379,526; May 24; v. 286; p. 782.
Childs, Elmer N., Yale, Iowa. Adjustable tongue attachment for vehicle-hounds. No. 1,377,314; May 10; v. 286; p. 235.
Chilton, Roland, Freehold, N. J. Method and apparatus for testing universal joints. No. 1,379,961; May 31; v. 286; p. 938.
Chilton, Roland, Keyport, N. J. Method and apparatus for forming spring-couplings. No. 1,379,963; May 31; v. 286; p. 938.
Chilton, Roland, Keyport, N. J. Universal joint. No. No. 1,379,964; May 31; v. 286; p. 939.
Chilton, Roland, Matawan, N. J. Universal joint. No. No. 1,379,965; May 31; v. 286; p. 939.
Chipps, William A., Los Angeles, Calif. Dual-wheel remover. No. 1,378,582; May 17; v. 286; p. 529.
Chizek, George. (See Kapinos, F., and Chizek.)
Choquet, Arthur J., New York, N. Y., assignor, by mesne assignments, to A. M. Deutsch, Queens county, N. Y. Neckband-fastening means for collars. No. 1,379,527; May 24; v. 286; p. 782.
Christensen, Carl C. (See Mable, William, assignor.)
Christenson, Ralph L., Seattle, Wash. Securing means for window-stops. No. 1,377,748; May 10; v. 286; p. 318.
Christian, Walton G., Houston, Tex. Sample-taking device. No. 1,379,170; May 24; v. 286; p. 714.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car-door-operating mechanism. No. 1,378,216; May 17; v. 286; p. 460.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,376,399; May 3; v. 286; p. 4.
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for eliminating distorted harmonics from alternating-current generators. No. 1,376,400; May 3; v. 286; p. 5.
Church, Albert B., and J. P. Warren, San Francisco, Calif. Annotator. No. 1,377,749; May 10; v. 286; p. 318.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,377,874; May 10; v. 286; p. 343.
Church, Thomas L., Gilbert, Minn. Door-latch. No. 1,378,583; May 17; v. 286; p. 530.
Churchill, Harold E., Detroit, Mich. Temperature-controlling device. No. 1,377,750; May 10; v. 286; p. 318.
Cigol, Frank A., Paterson, N. J. Forming hollow rubber articles. No. 1,378,523; May 17; v. 286; p. 518.
Cimaglia, Nicholas F. (See Rose, R., and Cimaglia.)
Ciravola, Charles, *et al.* (See Biondo, Philip M., assignor.)
Citizen's Trust & Savings Bank, administrator. (See Heyiman, Edward M., assignor.)
Claflin, C. A., Company. (See Robbins, Charles H., assignor.)
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Conversion of carbon monoxid into carbon dioxid. No. 1,376,514; May 3; v. 286; p. 25.
Clapp, Albert L., Marblehead, Mass. Glass-treating packet. No. 1,376,743; May 3; v. 286; p. 68.
Clapp, Albert L., Danvers, assignor to The Flintkote Company, Boston, Mass. Flexible plastic composition. No. 1,379,590; May 24; v. 286; p. 794.
Claremont Machine Co. (See Fumagalli, G., Surico, and Cardone, assignors.)
Clarin, Werner E., Chicago, Ill., assignor to R. S. Conant, Yonkers, N. Y. Metallic door. No. 1,376,607; May 3; v. 286; p. 43.
Clark, Alva B., and C. S. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Balancing equipment for four-wire circuits. No. 1,378,836; May 24; v. 286; p. 652.
Clark, Charles A. and F. W. Blair, New York, N. Y. Electric heater. No. 1,378,324; May 17; v. 286; p. 480.
Clark, Charles H., Berkeley, Calif., assignor to Clark Pedmobile Corporation, Brooklyn, N. Y. Skate. No. 1,379,250; May 24; v. 286; p. 729.
Clark, Edward W., Los Angeles, Calif., assignor of one-fourth to S. S. Turner, one-fourth to S. M. Clark, and one-fourth to V. E. Turner, Los Angeles, Calif. Core-box for pistons. No. 1,378,524; May 17; v. 286; p. 519.
Clark, Edwin S., Walla Walla, Wash. Profile-map machine. No. 1,379,528; May 24; v. 286; p. 782.
Clark, Ernest, *et al.* (See Stanley, E. S., and Gay, assignors.)
Clark, Ernest G., De Kalb, Ill. Stencil-cutting apparatus. No. 1,377,979; May 10; v. 286; p. 363.
Clark, Frank H. (See Elvin, Fahnestock, and Clark.)
Clark, George H. (See Hooper, S. C., and Clark.)
Clark, George H., Melrose, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Safety-valve. No. 1,380,094; May 31; v. 286; p. 963.
Clark, George S., Blackey, Ky. Blasting paper sheet. No. 1,376,676; May 3; v. 286; p. 55.
Clark, Henry F., assignor to Window Glass Machine Company, Pittsburgh, Pa. Flattening-oven furnace. No. 1,378,657; May 17; v. 286; p. 545.
Clark, John E., Lillington, N. C. Mop-head. No. 1,377,464; May 10; v. 286; p. 264.
Clark, Joseph D. (See Black, A. C., and Clark.)
Clark, Ohio C. B., Akron, Ohio. Spotlight. No. 1,378,997; May 24; v. 286; p. 682.
Clark Pedmobile Corporation. (See Clark, Charles H., assignor.)

Clark, Susie M., *et al.* (See Clark, Edward W., assignor.)
Clark, Terrence J., Holyoke, Mass. Beater-bar. No. 1,378,167; May 17; v. 286; p. 451.
Clark, Victor E., Grand Rapids, Mich. Broom. No. 1,377,560; May 10; v. 286; p. 281.
Clarke, Thomas B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-feeding device for machines for operating on heels. No. 1,377,315; May 10; v. 286; p. 235.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,378,938; May 24; v. 286; p. 671.
Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. No. 1,378,998; May 24; v. 286; p. 682.
Clavel, René, Basel-Augst, Switzerland. Dyeing cellulose acetate. No. 1,378,443; May 17; v. 286; p. 503.
Clay, Sampel B., St. Louis, assignor of one-half to E. R. Fish, Webster Groves, Mo. Bolt-threading machine. No. 1,377,146; May 3; v. 286; p. 146.
Clayton, William F., Cullman, Ala. Roller-fender. No. 1,377,115; May 3; v. 286; p. 140.
Claytor, Edward M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,376,401; May 3; v. 286; p. 5.
Clear, Andrew R., Nashua, N. H. Envelop opener. No. 1,377,805; May 10; v. 286; p. 329.
Cleland, Charles W. and J. G., Baldwin Park, Calif. Cement-block mold. No. 1,379,965; May 31; v. 286; p. 939.
Cleland, James G. (See Cleland, Charles W. and J. G.)
Clement, Benj. H., *et al.*, executors. (See Clement, Frank H.)
Clement, Frank H., deceased; L. S. Clement, M. G. Clement, and B. H. Clement, executors, assignors to American Woodworking Machinery Company, Rochester, N. Y. Lubricator for ball-bearings. No. 1,378,658; May 17; v. 286; p. 545.
Clement, Louisa S., *et al.*, executors. (See Clement, Frank H.)
Clement, Mary G., *et al.*, executors. (See Clement, Frank H.)
Clermont, John B., New York, N. Y. Apparatus and package for forming solutions by percolation. No. 1,377,316; May 10; v. 286; p. 235.
Cleveland Electric and Machine Mfg. Co., The. (See Kidney, Willis E., assignor.)
Cleveland Electric Machine and Manufacturing Company, The. (See Kidney, Willis E., assignor.)
Cleveland Osborn Manufacturing Company, The. (See Carman, E. S., and Oyster, assignors.)
Clevenger, Galen H., Washington, D. C., assignor to Research Corporation, New York, N. Y. Apparatus for treating ores or the like. No. 1,379,083; May 24; v. 286; p. 698.
Clifford, Ferdinand J., assignor to F. H. Cooper and W. Z., Pateros, Wash. Water-heater. No. 1,377,806; May 10; v. 286; p. 329.
Clifford, John J., assignor to H. D. Lathrop, Chicago, Ill. Valve. No. 1,378,217; May 17; v. 286; p. 460.
Closs, Jacob, St. Ansgar, Iowa. Air-concentrator. No. 1,377,807; May 10; v. 286; p. 330.
Cludius, Charles F. (See Manning, J. T., and Cludius.)
Cluff, George A., Clifton, N. J. Warping-machine. No. 1,377,751; May 10; v. 286; p. 318.
Coaker, Frederick F., Shaftesbury, England. Apparatus for opening air-tight tins. No. 1,376,515; May 3; v. 283; p. 26.
Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,379,333; May 24; v. 286; p. 746.
Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Reinforced ingot-mold. No. 1,376,402; May 3; v. 286; p. 5.
Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Ingot-mold and making same. No. 1,376,403; May 3; v. 286; p. 5.
Cobb, Albert R., assignor to Cobb Electric Appliance Co., Boston, Mass. Pressure-controlled electric switch. No. 1,377,317; May 10; v. 286; p. 236.
Cobb Electric Appliance Co. (See Cobb, Albert B., assignor.)
Coblentz, Chancie E. (See Whitcomb, J., and Gray, assignor.)
Coburn Trolley Track Manufacturing Company, The. (See Ballard, Harry E., assignor.)
Cochet, Laurent. (See Camell, R., Cochet, and Gritte.)
Cochrane, Manning W. (See Baker, Robert W., assignor.)
Cocks, Frank L. (See Grimm, P. H., Cocks, and Duryea.)
Cocks, George H., Adrian, Mich. Nut-lock. No. 1,379,394; May 24; v. 286; p. 757.
Coen, Castleman, San Francisco, Calif. Controllable torch. No. 1,377,875; May 10; v. 286; p. 343.
Coffield, James L., Dayton, Ohio. Clothes-wringer. No. 1,378,325; May 17; v. 286; p. 480.
Coffey, Clifford. (See Dix, H. S., Pryor, and Coffey.)
Coggon, John E., Viola, Wis. Extricating device for motor-vehicles. No. 1,379,585; May 24; v. 286; p. 793.
Cogsdill, Stuart A., Detroit, Mich. Forming cutting-tools. No. 1,379,853; May 31; v. 286; p. 917.
Cohen, Max, assignor of one-half to J. Rosenstock, New York, N. Y. Refrigerator. No. 1,380,190; May 31; v. 286; p. 981.
Coil, William D., Madisonville, Ky. Air-pump. No. 1,377,752; May 10; v. 286; p. 318.
Cole, Albert L., Auburndale, Mass. Demountable rim. No. 1,376,404; May 3; v. 286; p. 5.
Cole, Albert L., Auburndale, Mass. Demountable rim of motor-cars and the like. No. 1,377,058; May 3; v. 286; p. 129.
Cole, Charles L., Milford, Utah. Tie-straightener. No. 1,379,801; May 31; v. 286; p. 908.
Cole, Isidor M., and B. McKinney, Indianapolis, Ind. Signaling device. No. 1,378,584; May 17; v. 286; p. 530.
Cole, John W., Stratford, Conn., assignor to American Chain Company, Inc. Bottle-cap extractor. No. 1,379,171; May 24; v. 286; p. 715.
Cole, Perino B., Cambridge, Nebr. Means for storing vehicles. No. 1,378,168; May 17; v. 286; p. 451.
Cole, Robert M., Sandusky, Ohio. Making thymol from nitrocymene. No. 1,378,939; May 24; v. 286; p. 671.
Colgrove, Nelson W., Providence, R. I. Hat. No. 1,378,444; May 17; v. 286; p. 503.
Collette, Clarence C., Amsterdam, N. Y. Paper-clip. No. 1,378,525; May 17; v. 286; p. 519.
Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Melting-furnace. No. 1,378,526; May 17; v. 286; p. 519.
Collins, Walter. (See Brinley, W., and Collins, assignors.)
Colonial Chemical Corporation. (See Walker, George T. assignor.)
Columbia Graphophone Manufacturing Company. (See De Stubner, Emile, assignor.)
Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)
Combellick, William, Gettysburg, S. D. Float-valve. No. 1,379,529; May 24; v. 286; p. 783.
Combest, Oliver P., Pomona, Calif. Beet-topping attachment for beet-harvesting machines. No. 1,379,530; May 24; v. 286; p. 783.
Combs, Henry. (See Seel, P. C., Combs, and Kemp.)
Comisky, William F., Middletown, Conn. Shuttle. No. 1,378,837; May 24; v. 286; p. 652.
Commonwealth Steel Company. (See Howard, Karl S., assignor.)
Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Compe, Loui, Butte, Mont. Demountable Spring-tire. No. 1,378,246; May 17; v. 286; p. 466.
Composite Metal Lath Company, The. (See Le Blanc, Alexis, assignor.)
Comstock, Daniel F., Brookline, assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Light projection. No. 1,377,184; May 10; v. 286; p. 209.
Conant, Roger S. (See Clarin, Werner E., assignor.)
Conard, Frederick D., Philadelphia, Pa. Washer-securing device. No. 1,376,744; May 3; v. 286; p. 69.
Conclin, David B., Newport, Ky. Windlass. No. 1,379,084; May 24; v. 286; p. 698.
Coney, Joseph, Bath, assignor of one-half to The Lewis Trust Limited, London, England. Motor-tractor. No. 1,379,901; May 31; v. 286; p. 926.
Conger, Hiram O., and C. W. McCue, Warren, Ohio. Rail. No. 1,378,767; May 17; v. 286; p. 566.
Congreve, William, Cheltenham, England. Preparation for the teeth. No. 1,379,744; May 31; v. 286; p. 897.
Conklin Pen Manufacturing Company, The. (See Luck, Charles A., assignor.)
Conley, John M., Stockton, Calif. Scraper. No. 1,377,561; May 10; v. 286; p. 282.
Connolly, Peter F., Chicago, Ill. Combined insulated stem and joint. No. 1,377,318; May 10; v. 286; p. 236.
Conrad, George A., Detroit, Mich. Fuse-cartridge. No. 1,377,398; May 10; v. 286; p. 251.
Container Club, The. (See Malcolmson, James D., assignor.)
Conte, Attilio, Buenos Aires, Argentina. Controlling device for locks. No. 1,376,405; May 3; v. 286; p. 5.
Conte, James, Desplaines, Ill. Grading and sorting apparatus. No. 1,377,399; May 10; v. 286; p. 252.
Continental Tractor Company, The. (See Hartman, Noble W., assignor.)
Continental Tractor Company, The. (See Plettner, O. L., and Lowe, assignors.)
Converse, Atherton D., Winchendon, Mass. Collapsible drum. No. 1,377,003; May 3; v. 286; p. 119.
Cook, Archibald, Mount Vernon, and C. Greenbaum, New York, N. Y. Bracket for display-counters. No. 1,378,400; May 17; v. 286; p. 495.
Cook, Clarence A., United States Army, assignor to N. D. Baker, Secretary of War, trustee. End clip. No. 1,379,966; May 31; v. 286; p. 939.
Cook, Fred W., assignor to Chicago Hardware Foundry Company, North Chicago Ill. Floor-fastening for store-stools. No. 1,380,041; May 31; v. 286; p. 953.
Cook, Fred W., assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Table or stand. No. 1,380,042; May 31; v. 286; p. 953.
Cook, Joel R., assignor to The Domestic Electric Company, Cleveland Ohio. Speed-controlling device for motors. No. 1,380,134; May 31; v. 286; p. 971.
Cook, Roy J., assignor to G. C. Murray, Chicago, Ill. Draft yoke. No. 1,377,004; May 3; v. 286; p. 119.

Cook, Roy J., assignor to G. C. Murray, Chicago, Ill. Friction draft-gear. No. 1,379,967; May 31; v. 286; p. 939.
Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)
Cook, Stanley S. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
Cook, Thomas E., Dallas, Tex. Oil-stove. No. 1,377,753; May 10; v. 286; p. 319.
Cook, William H., Lee, Mass. Lock for cross-chains. No. 1,379,968; May 31; v. 286; p. 939.
Cooke, George W., Jamaica, N. Y. Faucet. No. 1,378,218; May 17; v. 286; p. 460.
Cooper, Edward W., Bowling Green, Ky. Closure for pitchers. No. 1,376,406; May 3; v. 286; p. 6.
Cooper, F. H., *et al.* (See Clifford, F. J., assignor.)
Cooper, Francis W., and H. Steadworthy, Montreal, Quebec, Canada. Rail-anchor. No. 1,379,531; May 24; v. 286; p. 783.
Cooper, George B. (See Jacobson, Leo, assignor.)
Cooper, Hamilton A., assignor of one-half to C. A. Briggs, Toledo Ohio. Saw-guard. No. 1,379,802; May 31; v. 286; p. 908.
Cooper Hewitt Company. (See Keyes, Frederick G., assignor.)
Cooper, W. Z., *et al.* (See Clifford, F. J., assignor.)
Coote, William G., East Katanning, Western Australia, Australia. Cream-separator. No. 1,379,532; May 24; v. 286; p. 783.
Copeland, Thomas M., Edendale, Auckland, New Zealand. Typewriting-machine. No. 1,376,922; May 3; v. 286; p. 103.
Copeland, Robert J. (See Bell, Richard T., assignor.)
Coppus Engineering and Equipment Company. (See Coppus, Frans H. C., assignor.)
Coppus, Frans H. C., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Blower. No. 1,377,400; May 10; v. 286; p. 252.
Corbin, Elbert A., Jr., Glenside, Pa. Heater. No. 1,380,135; May 31; v. 286; p. 971.
Cornish, Oscar B. (See Kinney, Benjamin L., assignor.)
Cornwall, Frederick R., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Side-closing plate for grinding-mills. No. 1,377,615; May 10; v. 286; p. 292.
Coron, J. Edouard. (See Lafleur, Sinai, assignor.)
Corrosion Extraction Company. (See Rankin, Harry D., assignor.)
Corry, James A., assignor to T. Birkett, Ottawa, Ontario, Canada. Railway water-closet. No. 1,377,185; May 10; v. 286; p. 209.
Cosgrove, Augustus H. (See Blessington, S. G., and Cosgrove.)
Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing apparatus. No. 1,377,319; May 10; v. 286; p. 236.
Costello, Thomas J., Warren, Ohio. Pair-heating furnace and operating same. No. 1,378,326; May 17; v. 286; p. 481.
Cotterman, Frederick W., Dayton, Ohio, assignor to Spilldorf Electrical Company, Newark, N. J. Winding-machine. No. 1,377,808; May 10; v. 286; p. 330.
Coufal, Joseph F., New York, N. Y. Lantern-slide. No. 1,376,677; May 3; v. 286; p. 55.
Coughlin, James P., Hastings, Nebr. Vehicle. No. 1,379,745; May 31; v. 286; p. 897.
Coughlin, John J., Chicago, Ill. Railway terminal station. No. 1,376,407; May 3; v. 286; p. 6.
Courtney, Frank J., Seattle, Wash. Can emptying and flattening machine. No. 1,376,798; May 3; v. 286; p. 79.
Covert, Edson C. New Kensington, assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Indicator for storage-hoppers or other receptacles. No. 1,379,803; May 31; v. 286; p. 908.
Coveyou, Elias E., Petoskey, Mich. Honey-uncapping machine. No. 1,378,371; May 17; v. 286; p. 489.
Cowell, John W., Chicago, Ill. Oil-burner. No. 1,377,669; May 10; v. 286; p. 302.
Cowey, Leonard E., Kew Gardens, England. Spring suspension of motor road-vehicles. No. 1,377,980; May 10; v. 286; p. 363.
Cowles, C., & Company. (See Hart, Franklin H., assignor.)
Cowley, Robert H., Salt Lake City, Utah. Display-form. No. 1,377,466; May 10; v. 286; p. 265.
Cowmatic Corporation. (See Lewis, John M. B., assignor.)
Cox, Claude E., Chicago, Ill. Liquid-level gage. No. 1,378,327; May 17; v. 286; p. 481.
Cox, Earl W., Seattle, Wash. Apparatus for salvaging sunken ships. No. 1,379,533; May 24; v. 286; p. 784.
Cox, John E., East San Pedro, Calif. Fish-trimming machine. No. 1,377,465; May 10; v. 286; p. 264.
Cox, Nathan, G., Livengood, Alaska. Flying-cruiser. No. 1,380,191; May 31; v. 286; p. 981.
Cox, Warren R., Cleveland, Ohio. Safeguard for electric circuits. No. 1,378,659; May 17; v. 286; p. 545.
Cramer, Fred C. (See Hughes, Charles H., assignor.)
Crane, Arthur T., assignor to The Chase Companies Inc., Waterbury, Conn. Spark-plug. No. 1,378,838; May 24; v. 286; p. 652.
Crank, Margaret B., Los Angeles, Calif. House-garment. No. 1,379,902; May 31; v. 286; p. 926.
Crewson, Charles C., Kansas City, Mo. Brake mechanism. No. 1,380,043; May 31; v. 286; p. 958.
Crawford, Edgar J., Seattle, Wash. Valve. No. 1,376,745; May 3; v. 286; p. 69.
Crawford-Frost, William A., Baltimore, Md. Torpedo-obstructing projectile. No. 1,377,467; May 10; v. 286; p. 265.
Crawford, McGregor, and Canby Co., The. (See Keys, William J., assignor.)
Crawford, Ralph F., Salina, Kans. Power-transmission device. No. 1,379,534; May 24; v. 286; p. 784.
Cregier, Nathaniel B., Chicago, Ill. Telegraph register receiving apparatus. No. 1,378,011; May 17; v. 286; p. 421.
Cregier, Nathaniel B., Los Angeles, Calif. Signal for dining-tables. No. 1,378,839; May 24; v. 286; p. 652.
Cresco Manufacturing Co. (See Thomas, Adelbert A., assignor.)
Crews, Charles M. (See Heap, William A., assignor.)
Crippen, Walter R., Pelham, N. Y. Phonograph attachment. No. 1,377,186; May 10; v. 286; p. 210.
Crites, Virgil C., Chicago, Ill. Photometric device. No. 1,379,172; May 24; v. 286; p. 715.
Crocker, Ernest B., Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Gage-socket. No. 1,376,860; May 3; v. 286; p. 92.
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crook, Edwin E. (See Little, I. C., and Crook.)
Crosby Steam Gage & Valve Company. (See Clark, George H., assignor.)
Crosier, Fred D., Brockton, Mass. Steamer. No. 1,377,809; May 10; v. 286; p. 330.
Crossno, Charley M., Sallisaw, Okla. Phonograph-reproducer. No. 1,379,535; May 24; v. 286; p. 784.
Crouse, Emory, Wichita, Kans. Gasolene-dispenser. No. 1,379,442; May 24; v. 286; p. 766.
Crow, Waller, and J. C. Schaffer, Tiffin, Ohio. Quicklime production. No. 1,377,401; May 10; v. 286; p. 252.
Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method of and apparatus for cutting sheet-glass. No. 1,377,320; May 10; v. 286; p. 236.
Cruise, Edgar L., Keystone, W. Va. Exhaust-whistle for motor-vehicles. No. 1,378,840; May 24; v. 286; p. 652.
Crump, Frank H., Los Angeles, Calif. Magazine-binder. No. 1,376,799; May 3; v. 286; p. 79.
Cua, Domenick M., Sandusky, Ohio. Cue-straightener. No. 1,376,678; May 3; v. 286; p. 56.
Cullen, William B., Westfield, Mass. Trolley-wheel. No. 1,376,408; May 3; v. 286; p. 6.
Culley, Alfred E., Stapenhill, Burton-on-Trent, England. Loading device. No. 1,379,746; May 31; v. 286; p. 897.
Cullinan, Arthur P. (See Jones, H. S., and Cullinan.)
Cully, Marie J., Chicago, Ill. Electrically-heated hair-waving device. No. 1,378,012; May 17; v. 286; p. 421.
Culp, Arthur J., Clanton, Ala. Engine. No. 1,376,516; May 3; v. 286; p. 26.
Culter & Proctor Stove Co. (See Sass, Fred J., assignor.)
Cumner, Matthew S., New York, N. Y. Vise. No. 1,379,747; May 31; v. 286; p. 897.
Cunningham Piano Company, The. (See Kennedy, Otis M., assignor.)
Cunningham, William C., assignor to Adams-Williams Mfg. Corporation, New York, N. Y. Automobile-body construction. No. 1,377,167; May 3; v. 286; p. 150.
Cunningham, William S., Shreveport, La. Transmission-gearing. No. 1,380,192; May 31; v. 286; p. 981.
Cuno, Charles F., Meriden, Conn. Cigar-lighter. No. 1,378,013; May 17; v. 286; p. 421.
Cuno, Charles F., Meriden, Conn. Switch. No. 1,378,660; May 17; v. 286; p. 545.
Curless, James M. (See Benjamin, R. B., and Curless.)
Curnutt, Elmer, Garnett, Kans. Telephone system. No. 1,378,585; May 17; v. 286; p. 580.
Curtis, Arthur R., and C. E. Oathout, assignor to The Kaynee Company, Cleveland, Ohio. Printing-machine. No. 1,377,754; May 10; v. 286; p. 319.
Curtis, Austen M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Radio-receiving system. No. 1,376,679; May 3; v. 286; p. 56.
Curtis, Frank C., Troy, N. Y. Metallurgical furnace. No. 1,376,680; May 3; v. 286; p. 56.
Curtiss, Arthur F., Portland, Oreg., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Ledger-posting-machine cabinet. No. 1,376,608; May 3; v. 286; p. 43.
Curtiss, Edward T., Los Angeles, Calif. Timer. No. 1,380,316; May 31; v. 286; p. 1005.
Cutler-Hammer Mfg. Co., The. (See Carpenter, Charles E., assignor.)
Cutler-Hammer Mfg. Co., The. (See Evans, C. T., and Hunter, assignors.)
Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)
Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)

Cutler, William C., North Glendale, Calif. Information-displaying device. No. 1,380,290; May 31; v. 286; p. 1000.
Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Production of electrical-current pulses. No. 1,377,059; May 3; v. 286; p. 130.
Cwik, Adam. (See Fraccascia, F., and Ercolani, assignors.)
Czyzowicz, Michal, and J. Szumilas, Chicago, Ill. Red-beet gatherer. No. 1,377,468; May 10; v. 286; p. 265.
D. & L. Slade Company. (See Esselen, Gustavus J., jr., assignor.)
D. & M. Autoparts Co. (See Doan, H. C., and Marson, assignors.)
Dahl, Conrad, Chicago, Ill. Occupant-propelled sliding vehicle. No. 1,377,402; May 10; v. 286; p. 252.
Dahlberg, B. G. (See Shaw, John K., assignor.)
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Steam-turbine. No. 1,377,755; May 10; v. 286; p. 319.
Dalbey, William C., Du Quoin, Ill., assignor by mesne assignments to Dentists' Supply Company. Gage for selecting artificial teeth. No. 1,378,527; May 17; v. 286; p. 519.
Dale, Harry T., New York, N. Y. Amplifier for telephonic transmitters. No. 1,378,940; May 24; v. 286; p. 671.
Dallet, Casper O. (See Wallace, William S., assignor.)
Dallimore, George W., Oakland, Calif. Roller-bearing cage for railway journal-boxes. No. 1,377,670; May 10; v. 286; p. 303.
Dalton, Lena F., Portland, Oreg. Automobile stop-signal. No. 1,376,746; May 3; v. 286; p. 69.
Dam, Henry R., assignor of one-half to J. Block, Brooklyn, N. Y. Rechargeable electric battery. No. 1,377,060; May 3; v. 286; p. 130.
Dana, Earl E., Stockport, Iowa. Chain-clasp. No. 1,377,187; May 10; v. 286; p. 210.
Danckwardt, Paul, assignor to The Danckwardt Process Company, Denver, Colo. Producing zinc chlorid. No. 1,378,219; May 17; v. 286; p. 461.
Danckwardt Process Company, The. (See Danckwardt, Paul, assignor.)
Danylchuk, John J., Saskatoon, Saskatchewan, Canada. Temperature-regulator. No. 1,380,291; May 31; v. 286; p. 1000.
Daquino, Nunzio, Turtle Creek, Pa. Shoe-heel lift. No. 1,378,220; May 17; v. 286; p. 461.
Daraban, Charles J., assignor of one-half to H. Allen, Chicago, Ill. Shaving-mug attachment. No. 1,378,661; May 17; v. 286; p. 546.
Darco Corporation. (See Mumford, Russell W., assignor.)
Dargento, Louis, Rochester, N. Y. Building-wall. No. 1,379,251; May 24; v. 286; p. 730.
Darnall, Lycurgus V., *et al.* (See Dyer, Nelson M., assignor.)
Daughtry, Willie L., Orlando, Fla. Guardrail chair. No. 1,378,328; May 17; v. 286; p. 481.
Daum, Albert F., Pittsburgh, Pa. Fuse. No. 1,378,329; May 17; v. 286; p. 481.
Daum, Albert F., Pittsburgh, Pa. Fuse. No. 1,378,330; May 17; v. 286; p. 481.
Davey, Frederick W., Brooklyn, N. Y. Electric hammer. No. 1,377,562; May 10; v. 286; p. 282.
David, Ernest, Maywood, Ill., assignor of one-third to H. Kraus, Chicago, Ill. Power-operated air-pump for automobiles. No. 1,377,403; May 10; v. 286; p. 252.
Davids, Ernest M. (See Lindsay, L., and Davids, assignors.)
Davidson, Harry O., Cleveland Heights, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete pipe. No. 1,376,609; May 3; v. 286; p. 44.
Davidson, John, Providence, R. I. Sprinkler-head shut-off. No. 1,379,017; May 31; v. 286; p. 874.
Davidson, Joshua E. (See Penney, H. D., and Davidson.)
Davies, Gwyn O. O., Cle Elum, Wash. Circuit-breaker. No. 1,377,876; May 10; v. 286; p. 343.
Davies, John W., Barnesboro, Pa. Wrench. No. 1,379,536; May 24; v. 286; p. 784.
Davies, Nelson E., Redwood City, Calif. Reversing propeller. No. 1,378,401; May 17; v. 286; p. 495.
Davies, Thomas M., Llanelly, Wales. Tire-inflating pump. No. 1,377,563; May 10; v. 286; p. 282.
Davis-Bournonville Company. (See Bucknam, Worthy C., assignor.)
Davis, Claude B., Richmond, Va. Clothes-wringing attachment for washtubs. No. 1,379,618; May 31; v. 286; p. 874.
Davis, Ernest W., assignor to Burke & James, Inc., Chicago, Ill. Turntable-support for cameras. No. 1,378,999; May 24; v. 286; p. 682.
Davis, Frank C., Tucson, Ariz. Retaining-latch for handles. No. 1,379,085; May 24; v. 286; p. 698.
Davis, Frank E., Bremerton, Wash. Latch. No. 1,379,537; May 24; v. 286; p. 784.
Davis, Frank M., Milwaukee, Wis. Universal duplex milling-machine. No. 1,376,861; May 3; v. 286; p. 92.
Davis, Franklin E., Van Norman, Mont. Wrench. No. 1,380,044; May 31; v. 286; p. 954.
Davis, Henry F. (See Poole, R. M., and Davis.)
Davis Sewing Machine, The. (See Lewis, Elmer M., assignor.)
Davis, William J., and J. Hammell, Tipton, Ind. Automobile-tire. No. 1,378,331; May 17; v. 286; p. 482.
Davis, William L., and H. Ensminger, Portland, Oreg. Camera attachment. No. 1,379,086; May 24; v. 286; p. 698.
Dawley, James C. (See Ripsch, C. W., and Dawley.)
Dawson, Robert K., Guelph, Ontario, Canada. Center hub for revolving chairs. No. 1,379,969; May 31; v. 286; p. 939.
Day, James A., Oilfields, Calif. Rod socket or coupling. No. 1,379,903; May 31; v. 286; p. 926.
Daywitt, Albert N., Frankfort, Ind. Road-grading machine. No. 1,379,748; May 31; v. 286; p. 897.
Daywitt, Albert N., Frankfort, Ind. Dumping mechanism for road-graders. No. 1,379,749; May 31; v. 286; p. 897.
Deam, Henry D., Benton Harbor, Mich. Ship-salvaging apparatus. No. 1,377,404; May 10; v. 286; p. 253.
Dean, Herbert, Clifton Junction, near Manchester, England. Non-spillable battery jar or container. No. 1,376,923; May 3; v. 286; p. 104.
Dean, William W., Stamford, Conn., assignor to Spilldorf Electrical Company, Newark, N. J. Ignition-generator. No. 1,379,334; May 24; v. 286; p. 746.
De Cew, Judson A., assignor to Process Engineers, Incorporated, New York, N. Y. Attachment to heating-engines. No. 1,377,616; May 10; v. 286; p. 292.
Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Pump-valve. No. 1,379,173; May 24; v. 286; p. 715.
Deeg, Gustav, Newark, N. J. Electric door-lock. No. 1,377,001; May 3; v. 286; p. 130.
Deeks, Hugh A., Moose Jaw, Saskatchewan, Canada. Gasolene-purifier. No. 1,376,681; May 3; v. 286; p. 56.
Deely, Harold P., Waterbury, Conn. Swivel-block for heading-machines. No. 1,377,005; May 3; v. 286; p. 119.
Deen, James S. (See McGrother, J. F., and Deen.)
Deere & Company. (See Strandlund, Carl G., assignor.)
De Escobales, Hilarion, New York, N. Y. Blank-feeding mechanism. No. 1,377,810; May 10; v. 286; p. 330.
De Forrest, George R., Uhrichsville, Ohio. Wall construction. No. 1,377,062; May 3; v. 286; p. 130.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Audion-circuit. No. 1,377,405; May 10; v. 286; p. 253.
De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
Dehaven, Joseph P. (See Forkner, R. F., and Dehaven.)
Deisch, William E., Portland, Oreg. Gas-engine. No. 1,376,800; May 3; v. 286; p. 79.
De la Chevardiere de la Grandville, Henri J. L. M. (See Filippi, Antoine P., assignor.)
De Lano, Charles F., Spokane, Wash. Manifold-shield. No. 1,377,811; May 10; v. 286; p. 331.
De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,377,406; May 10; v. 286; p. 253.
De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
Delcourt, Joseph F., New Bedford, Mass. Clasp. No. 1,377,116; May 3; v. 286; p. 141.
De Leysat, Adelin G. A. S., Etterbeek-Brussels, and C. D. Discry, Ixelles-Brussels, Belgium. Apparatus for insuring the correct position of the fingers and hand in writing. No. 1,379,804; May 31; v. 286; p. 908.
De Lukacsevics, Charles, New York, N. Y. Internal-combustion engine. No. 1,377,897; May 10; v. 286; p. 348.
De Lukacsevics, Charles, New York, N. Y. Internal-combustion engine. No. 1,377,898; May 10; v. 286; p. 348.
De Lukacsevics, Charles, and E. Lofller, New York, N. Y. Internal-combustion engine. No. 1,377,899; May 10, v. 286; p. 348.
Demarest, Charles S. (See Clark, A. B., and Demarest.)
Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Network-selecting circuits. No. 1,377,242; May 10; v. 286; p. 221.
Demers, Arthur E., assignor to American Optical Company, Southbridge, Mass. Pitch-pot. No. 1,178,528; May 17; v. 286; p. 519.
Deming, Charles M., Dayton, Ohio. Indicator. No. 1,377,006; May 3; v. 286; p. 119.
Demuling, Edward, *et al.* (See Brock, Joseph, assignor.)
Denison, Henry A., Waterville, Me. Detachable tread for traction-wheels. No. 1,377,321; May 10; v. 286; p. 299.
Denning, Ansel C., Johnson City, N. Y. Felted material and making same. No. 1,377,007; May 3; v. 286; p. 120.
De Normanville, Samuel A., London, England. Visual weather-screen. No. 1,379,750; May 31; v. 286; p. 898.
Dentists' Supply Company. (See Dalbey, William C., assignor.)
Dentists' Supply Company, The. (See House, Milus M., assignor.)
Dentists' Supply Company. (See Wavrin, John A., assignor.)
Denton, Dr., Sleeping Garment Mills. (See Herron, W. S., and Thomas, assignors.)
Denver Fire Clay Company, The. (See Lindsay, George W., assignor.)
Depue, Harold T., Kensington, Md. Key-coupler for organs. No. 1,376,682; May 3; v. 286; p. 56.
Depew, Paul C., Chicago, Ill. Spark-plug. No. 1,377,407; May 10; v. 286; p. 253.
Derby, John H., New York, N. Y. Pressure-reducing valve. No. 1,379,904; May 31; v. 286; p. 926.
Derichsweiler, Walram, Zurich, assignor, by mesne assignments, to Fabrique d'Horlogerie Recta, S. A., Biel, Switzerland. Photographic exposure-meter. No. 1,377,564; May 10; v. 286; p. 282.

De Saussure, William P., Jr., Englewood Cliffs, N. J. Card-positioning attachment for typewriters. No. 1,376,683; May 3; v. 286; p. 56.
De Schepper, Victor, New York, N. Y. Window-refrigerator. No. 1,379,879; May 31; v. 286; p. 922.
De Silva, Dwight M., Washington, D. C. Burner for gaseous fuel. No. 1,379,538; May 24; v. 286; p. 785.
Desmond, John E., Detroit, Mich. Atomizing-nozzle. No. 1,377,756; May 10; v. 286; p. 319.
De Stubner, Emile, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Composition for sound-records. No. 1,379,729; May 31; v. 286; p. 894.
De Tartas, Augustus R., Rockville Center, and F. Mladinich, New York, N. Y. Motion-picture camera. No. 1,377,322; May 10; v. 286; p. 237.
Det Norske Aktieselskab For Elektrokemisk Industri. (See Ravner, Oystein, assignor.)
Detroit Accessories Corporation. (See Strickland, Silas A., assignor.)
Detroit Automatic Scale Company. (See Riedel, Charles E., assignor.)
Detroit Cadillac Motor Car Company. (See Mertens, Eugene R., assignor.)
Detroit Pneumatic Chuck Company. (See Buhr, Joseph F., assignor.)
Detroit Twist Drill Company. (See Wineman, Charles P., assignor.)
Deutsch, Adolph M. (See Choquet, Arthur J., assignor.)
Deutsch, Frank, Cudahy, Wis. Scrubbing-brush clamp-handle. No. 1,376,862; May 3; v. 286; p. 92.
Devlin, Francis D., assignor to National Folding Box Company, New Haven, Conn. Counter display folding box. No. 1,379,395; May 24; v. 286; p. 758.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Shaft-hanger. No. 1,378,402; May 17; v. 286; p. 495.
De Vriendt, Leon, and L. De Vriendt, Blankenberghe, Belgium. Liquid-level gage. No. 1,378,768; May 17; v. 286; p. 566.
De Vriendt, Louis. (See De Vriendt, Leon and L.)
Dewey, Josiah A., assignor, by mesne assignments, to Murphy Door Bed Company, San Francisco, Calif. Sofa-bed. No. 1,379,805; May 31; v. 286; p. 908.
De Woern, Bror A., Lysekil, Sweden. Method of and means for distilling water. No. 1,379,502; May 24; v. 286; p. 777.
D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Storage-building. No. 1,379,970; May 31; v. 286; p. 940.
Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
Diamond Toy Corporation, The. (See Newell, Peter S. H., assignor.)
Dickerson, Horace P., assignor of one-half to F. D. Fisk, Memphis, Tenn. Sheet-paper dispenser. No. 1,377,565; May 10; v. 286; p. 282.
Dickie, Brockway, asignor to The Union Steel Products Company, Ltd., Albion, Mich. Canning-rack. No. 1,379,000; May 24; v. 286; p. 682.
Dickson, H. H., *et al.* (See Taft, John A., assignor.)
Dickson, Lawrence E., Strawn, Tex. Adjustable friction-grab for fishing-tools. No. 1,378,841; May 24; v. 286; p. 653.
Di Domenica, Antonio, Philadelphia, Pa. Machine for making macaroni. No. 1,378,662; May 17; v. 286; p. 546.
Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Fastening non-metallic elements to metal. No. 1,377,671; May 10; v. 286; p. 303.
Diegel, William, Manitowoc, Wis. Saw-filing machine. No. 1,379,252; May 24; v. 286; p. 730.
Diehl, Frederick. (See Zabriskie, H. L., and Diehl.)
Diehl Manufacturing Co. (See Zabriskie, H. L., and Diehl, assignors.)
Dies, Charles A., Chicago, Ill. Hairpin. No. 1,377,408; May 10; v. 286; p. 253.
Dieter, Louis F., Buffalo, N. Y. Car-wheel or similar body. No. 1,377,617; May 10; v. 286; p. 292.
Dieter, Louis F., Buffalo, N. Y. Dished car-wheel or similar body. No. 1,377,618; May 10; v. 286; p. 292.
Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)
Dillon, George F., Kansas City, Mo. Jack. No. 1,377,147; May 3; v. 286; p. 146.
Dinin, Alfred, Nanterre, France. Liquid-tight joint for preventing leakage between the terminal rods and covers of electric accumulators. No. 1,379,854; May 31; v. 286; p. 918.
Dion, Amedee and B., Ste. Therese de Blainville, Quebec, Canada. Band-cutter and feeder. No. 1,377,323; May 10; v. 286; p. 237.
Dion, Bruno. (See Dion, Amedee and B.)
Discry, Charles D. (See de Leysat, A. G. A. S., and Discry.)
Diskin, Moses B., New York, N. Y. Slotting-machine. No. 1,376,410; May 3; v. 286; p. 6.
Ditson, Jesse, Littleton, Colo., assignor, by mesne assignments, to Ingersoll-Rand Company. Adjustable stop member for gaging-blocks. No. 1,376,409; May 3; v. 286; p. 6.
Dittbrenner, John C., Indianapolis, Ind., assignor to Holton Tractor Company, Dover, Del. Tractor-plow. No. 1,378,842; May 24; v. 286; p. 653.
Dittman, Svend A. (See Dittmann, Halfdan and S. A., and Simmonsen.)
Dittmann, Halfdan and S. A., and R. C. Simmonsen, Copenhagen, Denmark. Locking device for automobiles and the like. No. 1,377,757; May 10; v. 286; p. 320.
Dittmer, Ernst G. W., Charlottenlund, near Copenhagen, Denmark. Apparatus for perforation of cinematographic films. No. 1,379,396; May 24; v. 286; p. 758.
Diuguid, Harris A., Brooklyn, N. Y. Holder for mirrors and other articles. No. 1,380,193; May 31; v. 286; p. 982.
Diven, Vernon L., Ogden, Utah. Door and window screen. No. 1,379,001; May 24; v. 286; p. 682.
Dix, Harry S., East Melbourne, J. T. Pryor, Malvern, and C. Coffey, East Malvern, Victoria, Australia. Excess-speed alarm. No. 1,377,243; May 10; v. 286; p. 221.
Dixson, Albert P., Bronson, Kans. Scaffold. No. 1,376,924; May 3; v. 286; p. 104.
Dixon, Thomas J., Madison, Wis. Multiple expander. No. 1,379,087; May 24; v. 286; p. 698.
Dlugach, Harry, Memphis, Tenn. Means for retailing goods by samples. No. 1,377,813; May 10; v. 286; p. 331.
Dlugach, Harry, Memphis, Tenn. Shopping-card for use in retailing goods by samples. No. 1,377,812; May 10; v. 286; p. 331.
Doan, Harry C., and C. J. Marson, assignors to D. & M. Autoparts Co., Richmond, Ind. Piston-ring finishing assembly. No. 1,380,136; May 31; v. 286; p. 971.
Dobbins, Timothy C., Los Angeles, Calif., assignor of one-half to D. H. Roby, Denver, Colo. Shock-absorbing mechanism. No. 1,379,443; May 24; v. 286; p. 766.
Dobazenecki, Bronislaw, Roslyn, N. Y. Wrench. No. 1,377,758; May 10; v. 286; p. 320.
Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Calif. Speed-governor. No. 1,377,672; May 10; v. 286; p. 303.
Dobyne, George A. and S. A., assignors to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-forming mechanism for fastener-inserting machines. No. 1,377,759; May 10; v. 286; p. 320.
Dobyne, Stephen A. (See Dobyne, George A. and S. A.)
Dodge, Herbert K., Palisades, N. J., assignor to Norton Company. Antislipping tile. No. 1,377,960; May 10; v. 286; p. 360.
Dodson, Edwin L., Covington, Ky. Automatic coin-controlled device for permutation safe-locks or the like. No. 1,379,335; May 24; v. 286; p. 746.
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Railway side-frame and journal-box connection. No. 1,376,684; May 3; v. 286; p. 57.
Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Side frame. No. 1,378,221; May 17; v. 286; p. 461.
Doersom, John, Columbus, Ohio. Furnace. No. 1,378,529; May 17; v. 286; p. 520.
Doherty Research Company. (See Fisher, James P., assignor.)
Dolan, John J., Sr., Duquesne, Pa. Tool-holder. No. 1,379,539; May 24; v. 286; p. 785.
Dolezal, John, Guernsey, Iowa. Non-leak cap for gasolene-tanks. No. 1,380,045; May 31; v. 286; p. 954.
Dolph, Otto W., Los Angeles, Calif. Vulcanizing air-bag. No. 1,379,397; May 24; v. 286; p. 758.
Domestic Electric Company, The. (See Cook, Joel R., assignor.)
Domestic Electric Company, The. (See Spielman, Milton H., assignor.)
Domine, Hans P., Rochester, N. Y. Tile-forming machine. No. 1,377,188; May 10; v. 286; p. 210.
Domscheit, Frederick E., Bridgeport, Conn. Sash-holder. No. 1,377,619; May 10; v. 286; p. 293.
Donahue, Christopher C., Bridgeport, Conn. Hose-supporter. No. 1,378,663; May 17; v. 286; p. 546.
Donaldson, Charles W., Akron, Ohio. Concrete ship construction. No. 1,377,153; May 3; v. 286; p. 147.
Donegan, Joseph J., Kansas City, Mo. Lawn-sprinkler. No. 1,377,409; May 10; v. 286; p. 254.
Donelan, Dermot, London, England. Remembrancer. No. 1,378,769; May 17; v. 286; p. 566.
Donnelly, Jacob E., Pittsburgh, Pa. Valve-cleaner. No. 1,378,586; May 17; v. 286; p. 530.
Donner, Joseph, Chicago, Ill. Cream-depilatory. No. 1,379,855; May 31; v. 286; p. 918.
Donohoe, Philip J., New York, N. Y. Gripping attachment for tires. No. 1,380,137; May 31; v. 286; p. 971.
Dooley, John J. (See Howley, T. H. A., and Dooley.)
Dormont, Frank C., Cleveland, Ohio. Eye massaging and medicating apparatus. No. 1,377,760; May 10; v. 286; p. 320.
Dorney, John P. Watervliet, N. Y. Combination-gage. No. 1,379,253; May 24; v. 286; p. 730.
Dorr, Harry A., assignor to Hahne & Company, Newark, N. J. Store-service check. No. 1,379,002; May 24; v. 286; p. 683.
Dorr, Willard L., Rockford, Ill. Device for cutting sheet materials. No. 1,376,747; May 3; v. 286; p. 69.
Dosenbach, Benjamin H., deceased; E. M. Dosenbach, executrix, Butte, Mont. Ore concentration. No. 1,377,189; May 10; v. 286; p. 210.
Dosenbach, Edna M., executrix. (See Dosenbach, Benjamin H.)
Doughty, George E. (See Liebman, M., and Doughty.)
Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Circuit-extending plug. No. 1,377,410; May 10; v. 286; p. 354.

Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Circuit-connector. No. 1,377,411; May 10; v. 286; p. 254.
Douglas, Harry A., Bronson, Mich. Lamp. No. 1,377,412; May 10; v. 286; p. 254.
Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)
Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)
Douglass-Hamilton, Edith A. H., *et al.*, executors. (See Aveline, Georges, assignor.)
Dover Stamping & Manufacturing Company. (See Hanson, Thure, assignor.)
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow Chemical Company, The. (See Veasey, William R., assignor.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Extracting bromin and apparatus for use therein. No. 1,376,610; May 3; v. 286; p. 44.
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Fusion process. No. 1,379,619; May 31; v. 286; p. 874.
Dowd, Andrew D. (See Rainey, P. M., and Dowd.)
Dowdell, William A., *et al.* (See Willis, Frank H., assignor.)
Dowell, Albert T. (See Hecht, J. S., and Dowell.)
Down, Thomas M., Kew Gardens, England. Analyzing, transmitting, and reconstructing pictures or the like. No. 1,379,905; May 31; v. 286; p. 927.
Downes, George H., Wolverhampton, England. Fastening device for lids of pots or vessels. No. 1,376,801; May 3; v. 286; p. 80.
Downey, Clement L., Cincinnati, Ohio. Coin-wrapper. No. 1,379,751; May 31; v. 286; p. 898.
Downey, John B., and A. C. Edgecomb, Topsham, Me. Threadless nut. No. 1,378,770; May 17; v. 286; p. 566.
Downs, Charles R. (See Weiss, J. M., and Downs.)
Doyle, Albert E. (See Wallace, Frank W., assignor.)
Drabenstott, Glenn H., Wooster, Ohio. Sawing and boring device. No. 1,377,961; May 10; v. 286; p. 360.
Drake, Charles E., New York, N. Y. Ship-salvaging apparatus. No. 1,378,843; May 24; v. 286; p. 653.
Draper Corporation. (See Nichols, Herbert, assignor.)
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Snow, Isaac, assignor.)
Draper Corporation. (See Stone, Melvin L., assignor.)
Draver, Emil R., Richmond, Ind. Disk wheel. No. 1,378,332; May 17; v. 286; p. 482.
Draver, Emil R., Richmond, Ind. Tire-carrier. No. 1,379,297; May 24; v. 286; p. 738.
Drevet, Emile, Montreal, Quebec, Canada. Internal-combustion engine. No. 1,378,333; May 17; v. 286; p. 482.
Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-valve. No. 1,376,863; May 3; v. 286; p. 92.
Drews, Julius O., London, England. Nut-cracking machine. No. 1,379,540; May 24; v. 286; p. 785.
Driver, William J., Chicago, Ill. Burglar and fire alarm. No. 1,377,324; May 10; v. 286; p. 237.
Droll, Joseph W., Oakland, Calif. Intermittent-movement mechanism for mattress-sewing machines. No. 1,376,517; May 3; v. 283; p. 26.
Drown, Alfred E., Westminster, London, England. Glazing system. No. 1,377,673; May 10; v. 286; p. 303.
Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Bumper for automobiles. No. 1,377,814; May 10; v. 286; p. 331.
Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Bumper for automobiles. No. 1,377,815; May 10; v. 286; p. 331.
Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Automobile-bumper. No. 1,377,816; May 10; v. 286; p. 332.
Dryen, Archille, Londerzeel, Belgium. Spinning nitrocellulose solutions. No. 1,377,761; May 10; v. 286; p. 320.
Dubicki, Kapetan S., and P. J. Miller, Battle Creek, Mich. Brushing and scrubbing machine. No. 1,379,806; May 31; v. 286; p. 908.
Dubreucq, Fénelon. (See Heryngfel, S., and Dubreucq.)
Duckstine, Julius, assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,376,518; May 3; v. 283; p. 26.
Duckwall, Herbert R., Indianapolis, Ind. Molding. No. 1,378,664; May 17; v. 286; p. 546.
Dudek, Franciszek, Johnstown, Pa. Combination-bed. No. 1,377,190; May 10; v. 286; p. 210.
Duff, Frank C. (See Toll, H. H., and Duff.)
Duffy, James U., Cleveland, Ohio. Car-stop. No. 1,379,398; May 24; v. 286; p. 758.
Du Ford, Peter, Ontario, Oreg. Shock-absorber. No. 1,378,665; May 17; v. 286; p. 546.
Duhon, Jules, Goss, assignor of one-half to E. H. White, De Soto parish, La. Deep-well pump. No. 1,377,762; May 10; v. 286; p. 320.
Duhon, Jules, Goss, assignor of one-half to E. H. White, De Soto parish, La. Deep-well pump. No. 1,377,763; May 10; v. 286; p. 321.
Du Laney, James A., assignor of one-half to C. R. Nelson, Seattle, Wash. Electrically-operated float-governed liquid control. No. 1,376,519; May 3; v. 286; p. 26.
Dulaney, Paul L., St. Louis, Mo. Oil-burner. No. 1,376,864; May 3; v. 286; p. 93.
Duncan, J., Company. (See Judd, Charles T., assignor.)
Dunkelberger, Milton S., Dayton, Ohio. Wind-clutch. No. 1,377,008; May 3; v. 286; p. 120.
Dunn, Clement E., Burlingame, Calif. Process of and apparatus for applying liquid to surfaces. No. 1,377,009; May 3; v. 286; p. 120.
Dunn, David, Philadelphia, Pa. Milk-bottle support. No. 1,378,403; May 17; v. 286; p. 495.
Dunn, William J., Montreal, Quebec, Canada. Internal-combustion engine. No. 1,377,877; May 10; v. 286; p. 343.
Dunwody, Thomas E. (See Geiger, C. H., and Dunwody.)
Duodisk Steel Wheel Corporation. (See Lougheed, Victor, assignor.)
Du Pont, E. I., de Nemours, & Company. (See Ritter, Frank O., assignor.)
Du Pont, E. I., de Nemours, & Company. (See Schulte, Louis, assignor.)
Du Pont, E. I., de Nemours, & Company. (See Sparre, F. and Masland, assignors.)
Du Pont, E. I., de Nemours, & Company. (See Woodbridge, Richard G., Jr., assignor.)
Du Pont, Eleuthere P., Montchanin, Del. Engine-support. No. 1,376,520; May 3; v. 286; p. 27.
Duquette, William, assignor to Johnson-Randall Co., Traverse City, Mich. Closure holding and securing means. No. 1,376,802; May 3; v. 286; p. 80.
Durborow, Harry J., assignor of one-half to B. L. Winders, Philadelphia, Pa. Stylus-bar mounting. No. 1,378,097; May 17; v. 286; p. 438.
Durnford, Charles W., West Ealing, assignor to Submersible & J-L Motors, Limited, Southall, England. Electric motor. No. 1,377,325; May 10; v. 286; p. 237.
Durnford, Charles W., West Ealing, assignor to Submersible & J-L Motors, Limited, Southall, England. Combined pump and electric motor. No. 1,377,326; May 10; v. 286; p. 238.
Duryea, Oscar C. (See Grimm, P. H., Cocks, and Duryea.)
Dutcher, Robert O., and G. Hope; said Hope assignor to said Dutcher, Morocco, Ind. Running-board brace. No. 1,380,046; May 31; v. 286; p. 954.
Dvorak, Emil, Ocheyedan, Iowa. Hand-operated lever. No. 1,377,817; May 10; v. 286; p. 332.
Dwelle, Clarence W., Sandusky, Ohio. Lever-locking device. No. 1,377,413; May 10; v. 286; p. 254.
Dwiggins Wire Fence Company. (See Swank, L., and Van Deventer, assignors.)
Dwight & Lloyd Metallurgical Company. (See Lloyd, Richard L., assignor.)
Dwyer, Walter M., Hillsdale, N. J. Check-protector. No. 1,376,611; May 3; v. 286; p. 44.
D'Yarmett, Edward C., Muskogee, Okla. Producing fuel. No. 1,376,925; May 3; v. 286; p. 104.
Dyer, Nelson M., Waterloo, assignor of one-fourth to W. H. Payne, Des Moines, and one-half to L. V. Darnall, Burlington, Iowa. Automobile-signal. No. 1,378,372; May 17; v. 286; p. 489.
Dynamidon G. m. b. H. (See Meyerhofer, Albert F., assignor.)
Eagle Claw Tire Boot Company, The. (See Chapman, Albert, assignor.)
Eakins, James M., Indianapolis, Ind. Sectionalized curtain-stretcher. No. 1,377,764; May 10; v. 286; p. 321.
Earhart, Walter M., Hope, Ind. Lid-operating device. No. 1,377,818; May 10; v. 286; p. 332.
Earl, Schuyler H. (See Stewart, A. L., Bullock, and Earl.)
Earle, William K., Ocean Park, Calif. Casement-adjuster. No. 1,378,373; May 17; v. 286; p. 489.
Earley, John J., Washington, D. C. Producing a predetermined color effect in concrete and stucco. No. 1,376,748; May 3; v. 286; p. 69.
Easter, W. Frank, assignor to J. A. McMillan, Marshalltown, Iowa. Poultry-feeder. No. 1,376,685; May 3; v. 286; p. 57.
Eastern Manufacturing Company. (See Hanson, H. H., and Walker, assignors.)
Eastern Tube and Tool Co. (See Hansen, Hans, assignor.)
Eastman, Harry L., and F. B. Rae, Cleveland, Ohio, assignors of four-tenths to said Rae and six-tenths to said Eastman. Calculating device. No. 1,378,666; May 17; v. 286; p. 546.
Eastman Kodak Company. (See Flynn, Edward P., assignor.)
Eastman Kodak Company. (See Folmer, William F., assignor.)
Eastman Kodak Company. (See Hutchings, Charles E., assignor.)
Eastman Kodak Company. (See Jones, John G., assignor.)
Eastman Kodak Company. (See Kroedel, Robert, assignor.)
Eastman Kodak Company. (See Seel, P. C., Combs, and Kemp, assignors.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic pumping system. No. 1,376,411; May 3; v. 286; p. 6.
Eaton, Malvern A., Littleton, assignor to Pike Manufacturing Company, Pike, N. H. Machine for grinding articles with plane surfaces. No. 1,377,117; May 3; v. 286; p. 141.

Eaton, Malvern A., Littleton, assignor to Pike Manufacturing Company, Pike, N. H. Machine for shaping articles by grinding. No. 1,377,118; May 3; v. 286; p. 141.

Eaton, Malvern A., Littleton, assignor to Pike Manufacturing Company, Pike, N. H. Machine for shaping sharpening-stones. No. 1,377,119; May 3; v. 286; p. 141.

Eberhardt, George O., Kelliher, assignor of one-half to J. Jerome, Battle River, Minn. Oil strainer and sediment trap. No. 1,378,334; May 17; v. 286; p. 482.

Eberle, Herman J., St. Louis, Mo. Removable floor-form section for use in connection with column-forms used in slab construction. No. 1,379,003; May 24; v. 286; p. 683.

Ebert, Frederick J., Mount Vernon, Wash. Card game. No. 1,377,327; May 10; v. 286; p. 238.

Eckart, Charles F., Honolulu, Hawaii. Enhancing the growth of plants. No. 1,377,566; May 10; v. 286; p. 282.

Eckert, Grandon E., assignor to The R. Thomas & Sons Co., East Liverpool, Ohio. Cable-clamp. No. 1,378,667; May 17; v. 286; p. 547.

Eckhart, Marvin L., Attica, Ind., assignor to National Car Coupler Co., Chicago, Ill. Car-coupling. No. 1,378,098; May 17; v. 286; p. 438.

Eclipse Interchangeable Counterbore Company. (See Smith, John H., assignor.)

Eclipse Machine Company. (See Richards, Julius H., assignor.)

Ecob, Robert G., New York, N. Y. Aeroplane. No. 1,377,414; May 10; v. 286; p. 255.

Eddy, Ray L., assignor of one-half to W. H. Washburne, Chicago, Ill. Self-cleaning filter for carbureter-intakes. No. 1,377,191; May 10; v. 286; p. 211.

Edelmann, Erich, Chicago, Ill. Grease and oil gun. No. 1,379,004; May 24; v. 286; p. 683.

Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Bolt-making machine. No. 1,380,047; May 31; v. 286; p. 954.

Edgar, Arthur J., Humboldt, Ill. Tractor-guide. No. 1,376,412; May 3; v. 286; p. 7.

Edgecomb, Arthur C. (See Downey, J. B., and Edgecomb.)

Edgerton, John A., and H. F. Calkins, Newark, N. J. Keyless lock for automobiles. No. 1,378,335; May 17; v. 286; p. 482.

Edison, Karl, assignor to H. E. Bloch, Spring Valley, N. Y. Toy. No. 1,376,749; May 3; v. 286; p. 70.

Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Production of molded articles. No. 1,377,192; May 10; v. 286; p. 211.

Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Production of molded articles. No. 1,377,193; May 10; v. 286; p. 211.

Edison, Thomas A., West Orange, N. J. Storage battery. No. 1,377,194; May 10; v. 286; p. 211.

Edison, Thomas A., Llewellyn Park, West Orange, N. J. Storage battery. No. 1,379,088; May 24; v. 286; p. 699.

Edison, Thomas A., Llewellyn Park, West Orange, N. J. Production of thin metallic sheets or foils. No. 1,379,089; May 24; v. 286; p. 699.

Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)

Edstrom, Earnest E. Whitefish, Mont. Sheave-block. No. 1,378,844; May 24; v. 286; p. 653.

Edwards, Christopher B., deceased; S. B. Edwards, executrix, assignor to Moeschl-Edwards Corrugating Company, Covington, Ky. Cleat for sheet-metal roofing. No. 1,376,751; May 3; v. 286; p. 70.

Edwards, Sadie B., executrix. (See Edwards, Christopher B.)

Egan, Charles E. (See Canova, P. J., Jr., and Egan.)

Eger, Louis, assignor of one-half to J. L. Martin, Brooklyn, N. Y. Loading device. No. 1,378,014; May 17; v. 286; p. 421.

Egerton, Clifford W., and J. W. Hanf, Brooklyn, N. Y. Hose-supporter. No. 1,376,750; May 3; v. 286; p. 70.

Eggerth, Henry E., Minneapolis, Minn. Windmill-fan. No. 1,377,328; May 10; v. 286; p. 238.

Egler, Nickolas F., Chicago, Ill. Heating-furnace. No. 1,380,095; May 31; v. 286; p. 963.

Egry Register Company, The. (See Stern, Milton C., assignor.)

Ehrlich, Leo. (See Peebles, Frank W. L., assignor.)

Eichelberger, Lewis H., Plainfield, N. J., assignor to Ransome Concrete Machinery Company, New York, N. Y. Concrete mixing and distributing apparatus. No. 1,379,174; May 24; v. 286; p. 715.

Eiffert, William. (See Cates, C. S., and Peters, assignor.)

Eilers, Herman D., Ireton, Iowa. Automobile-lock. No. 1,377,819; May 10; v. 286; p. 332.

Eisele, Herman. (See Mueller, C. B., and Eisele.)

Ekern, Alfred, Minneapolis, and R. A. Tanner, St. Paul, Minn. Portable milking-machine. No. 1,377,244; May 10; v. 286; p. 221.

Ekström, Gunnar C., B. A. Johnson, and G. Orstrom, assignors to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Machine for making cartons. No. 1,379,254; May 24; v. 286; p. 730.

Ekstrom, Eric S., *et al.* (See Swenson, Carl E., assignor.)

Elder, William J., Oswego, N. Y. Feed mechanism for wood-reworking machines. No. 1,378,845; May 24; v. 286; p. 653.

Electric Boat Company. (See Gunn, Thomas M., assignor.)

Electric Boiler Corporation. (See Nicholl, John S., assignor.)

Electric Outlet Company. (See White, Ernest C., assignor.)

Electric Service Supplies Company. (See Lewis, H. G., and Mayer, assignors.)

Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)

Electrostrop Manufacturing Company. (See Kalteyer, Frederick J., assignor.)

Eligh, Charles A., assignor to Long Manufacturing Company, Detroit, Mich. Edging machine for automatically perforating and cutting off strips of metal. No. 1,379,005; May 24; v. 286; p. 683.

Eligh, Charles A., assignor to Long Manufacturing Company, Detroit, Mich. Method and machine for making radiator-tubes. No. 1,379,006; May 24; v. 286; p. 684.

Ellerbeck, Ben B., Washington, D. C. Convertible automobile-top. No. 1,379,906; May 31; v. 286; p. 927.

Elling, Jens W. A., assignor to A/S Myrens Verksted, Christiania, Norway. Revolving suction-strainer. No. 1,377,765; May 10; v. 286; p. 321.

Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)

Elliott, Sterling, Newton, Mass. Machine for impressing characters on stencil-blanks. No. 1,378,771; May 17; v. 286; p. 567.

Elliott, William F., De Kalb, Ill. Fork for handling fodder. No. 1,378,772; May 17; v. 286; p. 567.

Elliott, William S., Pittsburgh, Pa. Strainer. No. 1,380,114; May 31; v. 286; p. 967.

Ellis, Carleton, Montclair, N. J. Making catalyzers. No. 1,378,336; May 17; v. 286; p. 482.

Ellis, Carleton, Montclair, N. J. Catalyzer and producing same. No. 1,378,337; May 17; v. 286; p. 483.

Ellis, Carleton, Montclair, N. J. Catalyzer for oil-hardening and making. No. 1,378,338; May 17; v. 286; p. 483.

Ellis, Herbert, Singapore, Straits Settlements, assignor to Linotype and Machinery Limited, London, England. Means for composing tabular matter in typographical composing and casting machines. No. 1,377,820; May 10; v. 286; p. 332.

Ellis, William F., assignor to The Standard Manufacturing Company, Baltimore, Md. Paste-receptacle. No. 1,377,567; May 10; v. 286; p. 283.

Ellis, William F., Baltimore, Md., and A. J. Garland, Washington, D. C., assignors to The Standard Manufacturing Company, Baltimore, Md. Dispensing-bottle closure. No. 1,377,568; May 10; v. 286; p. 283.

Elmes, Charles F., Engineering Works. (See Slater, Harvey, assignor.)

Elsen, Hubert, Antwerp, Belgium. Device for launching lifeboats. No. 1,380,194; May 31; v. 286; p. 982.

Elvin, Albert G., Plandome, A. B. Fahnestock, Great Neck, and F. H. Clark, assignors to Elvin Mechanical Stoker Company, New York, N. Y. Fuel-feeding mechanism. No. 1,376,521; May 3; v. 286; p. 27.

Elvin Mechanical Stoker Company. (See Elvin, A. G., Fahnestock, and Clark, assignors.)

Emerson Apparatus Company. (See Emerson, C. J., and Bridgman, assignors.)

Emerson, Charles J., Providence, R. I., and P. W. Bridgman, Cambridge, assignors to Emerson Apparatus Company, Boston, Mass. Method of and apparatus for rapid weighing in analytical balance. No. 1,377,569; May 10; v. 286; p. 283.

Emory, Robert J., Newark, N. J. Reamer. No. 1,378,339; May 17; v. 286; p. 483.

Emrick, Bert R., and J. K. Porter, Chauk, Upper Burma, India. Deep-well pump. No. 1,380,048; May 31; v. 286; p. 954.

Endler, Joseph, Rochester, Pa. Making potash. No. 1,380,195; May 31; v. 286; p. 982.

Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,377,329; May 10; v. 286; p. 238.

Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Planter. No. 1,377,766; May 10; v. 286; p. 321.

Englund, Louis J., Oakland, Calif. Combination shipbevel, miter-square, callpers, and rule. No. 1,379,090; May 24; v. 286; p. 699.

Ensminger, Howard. (See Davis, W. L., and Ensminger, assignors.)

Enter, Fred F., Cuyahoga Falls, assignor of one-half to W. Martin, Cleveland, Ohio. Wheel-rim-fastening device. No. 1,379,856; May 31; v. 286; p. 918.

Enterprise Manufacturing Company. (See Pflueger, Charles T., assignor.)

Ercolani, John. (See Fraccascia, F., and Ercolani.)

Erickson, Frederic W., East Greenwich, R. I. Conduit-pipe coupling. No. 1,378,015; May 17; v. 286; p. 422.

Erickson, Jonas B., Iron Mountain, Mich. Spike-puller. No. 1,380,196; May 31; v. 286; p. 982.

Erickson, Theodore, Charlevoix, Mich. Press. No. 1,377,469; May 10; v. 286; p. 265.

Erik, Emil, assignor of one-half to J. Fetto, Ossining, N. Y. Traction-tread. No. 1,379,336; May 24; v. 286; p. 747.

Erikainen, John, Pelkie, Mich. No. 1,377,821; May 10; v. 286; p. 333.

Erskine-Murray, James, and J. Robinson, Biggin Hill, England. Electromagnetic-wave navigational arrangement. No. 1,379,541; May 24; v. 286; p. 785.

Erwin, Jeremiah, Chicago, Ill. Bottle-cap fluid dispenser and spreader. No. 1,378,016; May 17; v. 286; p. 422.

Escobales, Lillian S. (See Lev, Frank W., assignor.)

Esnough, Thomas S., and B. L. Schreiner, Philadelphia, Pa. Resilient clamp. No. 1,380,096; May 31; v. 286; p. 964.

Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Repeater-circuits. No. 1,378,170; May 17; v. 286; p. 451.

Esselen, Gustavus J., Jr., Swampscott, assignor, by mesne assignments, to D. & L. Slade Company, Boston, Mass. Flavoring and perfumery extract. No. 1,378,099; May 17; v. 286; p. 438.

Essex Motors. (See Fekete, S. I., and Baits, assignors.)

Essex Motors. (See Fekete, Stephen I., assignor.)

Essex Motors. (See Whisler, Ralph H., assignor.)

Esterline, John W., and D. J. Angus, Indianapolis, Ind., assignors to Tidewater Equipment Corporation, Portland, Me. Engine-starter. No. 1,376,752; May 3; v. 286; p. 70.

Etheridge, Harry. (See Frauenheim, J. A., and Etheridge.)

Ethridge, Thomas J., Longview, Tex. Metal-coating composition. No. 1,379,542; May 24; v. 286; p. 785.

Eureka Tackle Block Company, The. (See Flynn, John H., Jr., assignor.)

Eustis, Frederick A., Milton, Mass., assignor of three-fourths to C. P. Perin, New York, N. Y. Treatment of iron ores. No. 1,377,822; May 10; v. 286; p. 333.

Evans, Charles E., Seattle, Wash. Binder tying and cutting device. No. 1,378,160; May 17; v. 286; p. 451.

Evans, Clarence T., and R. B. Hunter, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,379,071; May 31; v. 286; p. 940.

Evans, Clyde P., St. Louis, Mo. Lapsed-time-calculating machine. No. 1,377,620; May 10; v. 286; p. 293.

Evans, Edwin B. (See Page, Louis A., assignor.)

Eveans, William B. (See Jackson, George E., assignor.)

Everett Machine and Manufacturing Company, The. (See Meltz, Julius B., assignor.)

Exline, Marcus P., Dallas, Tex. Removable pass-book. No. 1,377,120; May 3; v. 286; p. 141.

Evslin, Leo E., New York, N. Y. Toothbrush. No. 1,378,530; May 17; v. 286; p. 520.

Faber, John P., Dunellen, N. J., assignor to Ransome Concrete Machinery Company. Concrete-mixing apparatus. No. 1,379,586; May 24; v. 286; p. 793.

Fabrique d'Horlogerie Recta, S. A. (See Durichsweiler, Walram, assignor.)

Fagan, George W., Cedar Falls, Iowa. Repairing-stand. No. 1,379,907; May 31; v. 286; p. 927.

Fahnestock, Adam B. (See Elvin, A. G., Fahnestock, and Clark.)

Fahrenwald, Frank A., Cleveland Heights, Ohio. Apparatus for high-temperature uses. No. 1,378,941; May 24; v. 286; p. 672.

Fahrni, Otto, Thoune, assignor to W. Gerber, Thoune, Hofstetten, and E. Schneider, Bachimatte, Thoune, Switzerland. Automatic embroidering-machine. No. 1,378,668; May 17; v. 286; p. 547.

Fahrni, Otto, Thoune, assignor to L. Wyler and A. H. Rieser-Beutter, Berne, Switzerland. Machine for perforating jacquard-cards for embroidery-machines. No. 1,379,807; May 31; v. 286; p. 909.

Fairbanks Company, The. (See Sponsel, Charles W., assignor.)

Fairbanks, Morse & Company. (See Jahnke, Charles B., assignor.)

Fairchild, Clifford J., assignor to Black Products Co., Chicago, Ill. Target. No. 1,378,340; May 17; v. 286; p. 483.

Fairholme, Frederick C., W. H. Hatfield, and G. Stanfield, Sheffield, England, assignors to Firth Sterling Steel Company, McKeesport, Pa. Tool for testing the hardness of materials. No. 1,376,413; May 3; v. 286; p. 7.

Fairless, Victor H., Trenton, Tenn. Soft-collar support. No. 1,378,773; May 17; v. 286; p. 567.

Falcone, Joseph, New York, N. Y. Combination-globe. No. 1,377,121; May 3; v. 286; p. 141.

Falle, John E. (See Shader, C. L., and Falle.)

Falls, Alexander S., Glencoe, Ill. Desk. No. 1,377,767; May 10; v. 286; p. 322.

Fankboner, Harland. (See Walser, J. J., and Fankboner.)

Fanning, Grover C., Wichita, Kans. Weed-turning attachment to plows. No. 1,380,197; May 31; v. 286; p. 982.

Farina, Joseph A., *et al.* (See Snelling, S. A., and Saner, assignors.)

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,378,404; May 17; v. 286; p. 496.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe cut-out cock. No. 1,378,405; May 17; v. 286; p. 496.

Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car device. No. 1,378,406; May 17; v. 286; p. 496.

Farmer, Thomas J., Omaha, Nebr. Telephone attachment. No. 1,378,774; May 17; v. 286; p. 567.

Farnham, Charles F., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Display-card. No. 1,380,198; May 31; v. 286; p. 982.

Farnsworth, Frank J., Highland Park, Mich. Device for lifting washing-machine cylinders. No. 1,376,414; May 3; v. 286; p. 7.

Farquhar, James C., Zanesville, Ohio. Bookcase. No. 1,379,091; May 24; v. 286; p. 699.

Farrel Foundry and Machine Company. (See Bowen, D. R., and Schnuck, assignors.)

Farrington, Herbert O., Kittery, Me., assignor of one-half to A. W. Harrison, Boston, Mass. Mailing blank or sheet. No. 1,376,865; May 3; v. 286; p. 93.

Farrow, Franklin, West Brooksville, Me. Peat-spatulating machine. No. 1,378,775; May 17; v. 286; p. 567.

Farry, Michael L., Boston, Mass. Horseshoe. No. 1,378,942; May 24; v. 286; p. 672.

Faurot, Joseph A. (See Carmody, Harold J., assignor.)

Faust, Levin, *et al.* (See Swenson, Carl E., assignor.)

Fearn, Richard L., Jr., assignor to National Electrical Supply Company, Washington, D. C. Thermally-controlled electric switch. No. 1,380,049; May 31; v. 286; p. 955.

Febrey, Harold H., Newark, N. J. Paper-clip. No. 1,376,753; May 3; v. 286; p. 70.

Feeney, John, Lodi, N. J. Treating wicks. No. 1,379,857; May 31; v. 286; p. 918.

Fegraeus, Harold. (See Wangenstein, J. J., and Fegraeus.)

Fehr, Walter E., Baltimore, Md. Combined valve-cutter and valve-seat reamer. No. 1,377,470; May 10; v. 286; p. 265.

Feist, Sidney E., Brooklyn, N. Y. Figure for ballroom dancing practice. No. 1,378,669; May 17; v. 286; p. 547.

Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Spring-shackle for motor-vehicles. No. 1,376,803; May 3; v. 286; p. 80.

Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Motor-vehicle. No. 1,380,097; May 31; v. 286; p. 964.

Feldkamp, William J., Brantford, Ontario, Canada. Camping utensil. No. 1,378,846; May 24; v. 286; p. 654.

Felger, F. & F. (See Felger, Frederick H., assignor.)

Felger, Frederick H., assignor to F. & F. Felger, Inc., Newark, N. J. Link bracelet. No. 1,376,866; May 3; v. 286; p. 93.

Felix, Louis, Warba, Minn. Weighing-fork. No. 1,380,199; May 31; v. 286; p. 983.

Fender, Nicholas, Chicago, Ill. Freight-car. No. 1,377,122; May 3; v. 286; p. 142.

Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Cooking or sterilizing machine. No. 1,377,245; May 10; v. 286; p. 221.

Fenn, William B., New York, N. Y. Sterilizing canned goods. No. 1,378,531; May 17; v. 286; p. 520.

Fennell, James T., Philadelphia, Pa. Boiler. No. 1,378,847; May 24; v. 286; p. 654.

Fenske, Daniel, assignor of one-half to J. C. Kleist, Milwaukee, Wis. Flying-machine. No. 1,378,100; May 17; v. 286; p. 438.

Ferentz, Max L. (See Zeidler, W. A., and Ferentz.)

Ferencz, Szabo. (See Szakács, J., and Ferencz.)

Ferguson, Harry, Belfast, Ireland. Tractor-hitch. No. 1,379,399; May 24; v. 286; p. 758.

Ferguson, William C., St. Louis, Mo. Apparatus for purifying and disposing of sewage. No. 1,380,200; May 31; v. 286; p. 983.

Ferland, Napoleon H., assignor to The American Novelty Company, Incorporated, Norwood, Mass. Combustion-promoting device for stoves. No. 1,377,010; May 3; v. 286; p. 120.

Fernández, Ataulfo, San Francisco, Calif. Refuse-collection vehicle. No. 1,379,007; May 24; v. 286; p. 684.

Ferris, William E., Cleveland, Ohio, assignor to The Ohio Trailer Company. Trailer-truck for industrial purposes. No. 1,378,445; May 17; v. 286; p. 503.

Ferron, Arthur. (See Auger, Victor, assignor.)

Fetto, John. (See Erik, Emil, assignor.)

Fibre Container Company. (See Walter, Harrison B., assignor.)

Field, Frank H., Jamestown, N. Y. Shock-absorber. No. 1,378,532; May 17; v. 286; p. 520.

Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective signaling system. No. 1,378,943; May 24; v. 286; p. 672.

Fies, Herbert W., Cleveland Heights, assignor of one-half to M. L. Jeffrey, Cleveland, Ohio. Safety-shoe for ladders. No. 1,379,808; May 31; v. 286; p. 909.

Filippi, Antoine P., assignor to Henri J. L. M. de la Chevardiere de la Grandville, Paris, France. Propeller. No. 1,378,776; May 17; v. 286; p. 568.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 1,379,543; May 24; v. 286; p. 785.

Firestone Steel Products Company, The. (See Mallison, Frank K., assignor.)

Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)

First Trust & Savings Company, The, *et al.*, trustees. (See Sommer, William H., assignor.)

Firth Sterling Steel Company. (See Fairholme, F. C., Hatfield, and Stanfield, assignors.)

Fiscel, Harry E. (See Janney, W. E., Fiscel, and Miller.)

Fish, Edward R. (See Clay, Samuel B., assignor.)

Fisher, Arthur W., Pultneyville, N. Y. Locking-link. No. 1,379,620; May 31; v. 286; p. 874.
Fisher Body Corporation. (See Gagnon, Alexander, assignor.)
Fisher Body Corporation. (See Rissman, Paul, assignor.)
Fisher Body Corporation. (See Simpson, Emory G., assignor.)
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 1,380,050; May 31; v. 286; p. 955.
Fisher, Charles W., Wellsville, Kans. Sanitary toilet apparatus. No. 1,376,920; May 3; v. 286; p. 104.
Fisher, Henry F., Los Angeles, Calif. Violin-bridge. No. 1,377,570; May 10; v. 286; p. 283.
Fisher, Henry F., Los Angeles, Calif. Shoulder-pad for violins, &c. No. 1,377,571; May 10; v. 286; p. 283.
Fisher, James P., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Pump. No. 1,379,587; May 24; v. 286; p. 793.
Fisk, Ferris D. (See Dickerson, Horace P., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fiske, Bradley A., New York, N. Y. Ignition system for torpedoes. No. 1,379,972; May 31; v. 286; p. 940.
Fiske & Company. (See Fiske, Jonathan P. B., assignor.)
Fiske, Jonathan P. B., Newton, Mass., assignor to Fiske & Company, Inc. Cored channel-brick and wall construction. No. 1,377,572; May 10; v. 286; p. 284.
Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,378,533; May 17; v. 286; p. 522.
Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,378,534; May 17; v. 286; p. 521.
Fitz Gerald, Ray H., Pittsburgh, Pa. Display-box. No. 1,378,535; May 17; v. 286; p. 521.
Fitzgerald, John L., Emporia, Kans. Auxiliary back-rest for automobiles. No. 1,377,823; May 10; v. 286; p. 333.
Fix, Frank C., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole-lip turner. No. 1,380,098; May 31; v. 286; p. 964.
Flaherty, Timothy J., La Salle, Ill. Automatic clutch-release. No. 1,378,777; May 17; v. 286; p. 568.
Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,378,670; May 17; v. 286; p. 547.
Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,378,671; May 17; v. 286; p. 547.
Fleckner, Luther M., San Francisco, Calif. Tree-prop. No. 1,376,686; May 3; v. 286; p. 57.
Fletcher, Joseph, Bellwood, assignor of one-half to James A. Sackley Company, Chicago, Ill. Steam-shovel. No. 1,380,051; May 31; v. 286; p. 955.
Flick, Lorenz, assignor, by mesne assignments, to Sayles Finishing Plants Inc., Saylesville, R. I. Roll support. No. 1,379,588; May 24; v. 286; p. 793.
Flintkote Company, The. (See Clapp, Albert L., assignor.)
Flinn, Frederick B. (See Towne, R. S., and Flinn.)
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Truck side frame. No. 1,378,848; May 24; v. 286; p. 654.
Fly Escape Screen Company. (See Mittelstaedt, George W., assignor.)
Flynn, Edward J., Parkersburg, W. Va., assignor to Standard Oil Company, (Inc. in N. J.) Outage-cage. No. 1,378,536; May 17; v. 286; p. 521.
Flynn, Edward P., assignor to Eastman Kodak Company, Rochester, N. Y. Reel of sheet material. No. 1,377,154; May 3; v. 286; p. 147.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side-frame construction. No. 1,378,849; May 24; v. 286; p. 654.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side frame. No. 1,379,752; May 31; v. 286; p. 898.
Flynn, John H., Jr., assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Pulley-block. No. 1,379,255; May 24; v. 286; p. 730.
Fodge, Mathias, Richmond, Va. Gear-cutting attachment for milling-machines. No. 1,377,330; May 10; v. 286; p. 238.
Fogal, John E. W., and C. L. Fulghum, Quincy, Ill. Device for operating freight-elevator hatch-doors. No. 1,378,017; May 17; v. 286; p. 422.
Fogarty, Orville A., Rigaud, Quebec, Canada. Ingot-mold. No. 1,377,962; May 10; v. 286; p. 360.
Folgman, Emanuel, Brooklyn, N. Y. Clean-out for burners. No. 1,379,544; May 24; v. 286; p. 785.
Folk, Joseph. (See Luschka, A. R., and Folk.)
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing apparatus. No. 1,378,101; May 17; v. 286; p. 428.
Folsom, Herbert A., Providence, R. I. Solvent for dyestuffs. No. 1,379,175; May 24; v. 286; p. 715.
Fonda, Troy J., Oconto, Nebr. Inside pipe-cutter. No. 1,379,545; May 24; v. 286; p. 785.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Ribbon-spool for typewriters. No. 1,378,672; May 17; v. 286; p. 548.
Forbes, John S., Philadelphia, Pa. Refrigerator. No. 1,377,824; May 10; v. 286; p. 333.
Forbis, Rufus E., assignor to Chemical Construction Company, Charlotte, N. C. Acid-phosphate apparatus. No. 1,376,612; May 3; v. 286; p. 44.
Ford, Bruce, Philadelphia, Pa. Retainer or separator for secondary or storage batteries. No. 1,376,927; May 3; v. 286; p. 104.
Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,376,928; May 3; v. 286; p. 105.
Ford, Bruce, Philadelphia, Pa. Storage-battery plate. No. 1,376,929; May 3; v. 286; p. 105.
Ford, Henry, Dearborn, Mich. Gear-shift-locking device. No. 1,377,331; May 10; v. 286; p. 239.
Ford, Henry, Dearborn, Mich. Front-axle assembly. No. 1,377,674; May 10; v. 286; p. 303.
Ford, Henry, Hospital. (See Wood, Albert G., Jr., assignor.)
Ford, John. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
Ford Motor Company. (See Wandersee, John F., assignor.)
Ford, Patrick J., Augusta, Ga. Game. No. 1,378,018; May 17; v. 286; p. 422.
Ford, Ralph L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Check-wire guide for hill drop-planters. No. 1,376,522; May 3; v. 286; p. 27.
Forkner, Robert F., and J. P. Dehaven, Princeton, W. Va. Gear-shift. No. 1,379,753; May 31; v. 286; p. 898.
Formatan Syndicate. (See Mooney, F. M., assignor.)
Formby, George M., assignor to Formby Petrinite Corporation, Jacksonville, Fla. Plastic composition and producing the same. No. 1,376,523; May 3; v. 286; p. 27.
Formby, George M., assignor to Formby Petrinite Corporation, Jacksonville, Fla. Making a cementitious composition. No. 1,379,680; May 31; v. 286; p. 885.
Formby Petrinite Corporation. (See Formby, George M., assignor.)
Forschler, Albert L. (See Forschler, Philip and A. L.)
Forschler, Philip and A. L., New Orleans, La. Tire-carrier for motor-vehicles. No. 1,379,591; May 24; v. 286; p. 794.
Forsell, Frans E., assignor to Parks Bros. & Rogers, Providence, R. I. Lingerie-clasp. No. 1,376,613; May 3; v. 286; p. 44.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric-range heating element. No. 1,376,415; May 3; v. 286; p. 7.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Comb attachment to curling-irons. No. 1,376,416; May 3; v. 286; p. 7.
Forrester, George H., Iver, England. Concrete wall. No. 1,379,754; May 31; v. 286; p. 898.
Förster, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for raising or lowering a load. No. 1,379,546; May 24; v. 286; p. 786.
Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,377,162; May 3; v. 286; p. 149.
Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,378,537; May 17; v. 286; p. 521.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing means for polyphase systems. No. 1,376,417; May 3; v. 286; p. 8.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. No. 1,376,418; May 3; v. 286; p. 8.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Polyphase distributing system. No. 1,376,419; May 3; v. 286; p. 8.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-balancer. No. 1,376,420; May 3; v. 286; p. 8.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase motor. No. 1,376,421; May 3; v. 286; p. 8.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Polyphase distributing system. No. 1,376,422; May 3; v. 286; p. 9.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase distributing system. No. 1,376,423; May 3; v. 286; p. 9.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating system. No. 1,376,424; May 3; v. 286; p. 9.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for eliminating harmonics in polyphase alternators. No. 1,376,425; May 3; v. 286; p. 9.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. No. 1,377,573; May 10; v. 286; p. 284.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-balancing system. No. 1,378,019; May 17; v. 286; p. 422.
Fosler, Ira G., Chicago, Ill. Pulsator. No. 1,376,804; May 3; v. 286; p. 80.
Foss-Hughes Company. (See Noonan, Albert S., assignor.)
Fraser, George H., Brooklyn, N. Y. Drier, cooler, and similar device. No. 1,378,407; May 17; v. 286; p. 496.
Foster, Albion D., Denver, Colo. Street-indicator. No. 1,377,471; May 10; v. 286; p. 266.

Foster, Carroll J. (See Tompkins, J. H., and Foster.)
Foster, Emory M., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Demountable rim and means for fastening same. No. 1,379,809; May 31; v. 286; p. 909.
Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Clamp for concrete-forms. No. 1,376,614; May 3; v. 286; p. 45.
Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal felly. No. 1,379,810; May 31; v. 286; p. 909.
Foster, John, Calgary, Alberta, Canada. Oil-separator. No. 1,379,176; May 24; v. 286; p. 715.
Foster, Walter H. (See Eden, James A., Jr., assignor.)
Fotch, Arthur J., *et al.* (See Hayda, Oscar, assignor.)
Fowble, Oscar R., Huntington, W. Va. Wrench. No. 1,380,052; May 31; v. 286; p. 955.
Fox, Andrew, Fort Wayne, Ind. Clothesline pulley and fastener. No. 1,377,768; May 10; v. 286; p. 322.
Fox, Charles, E., and R. S., assignors to R. S. Fox, York, Pa. Manufacture of bread. No. 1,377,825; May 10; v. 286; p. 333.
Fox, Edward. (See Fox, C., E., and R. S.)
Fox, Roy S. (See Fox, C., E., and R. S.)
Fraccascia, Frank, and J. Ercolani, Philadelphia, Pa., assignor of one-third to A. Cwik, Camden, N. J. Safety-valve. No. 1,379,092; May 24; v. 286; p. 699.
Fraim, E. T., Lock Company. (See Fraim, Samuel R., assignor.)
Fraim, Samuel R., assignor to The E. T. Fraim Lock Company, Lancaster, Pa. Padlock. No. 1,380,053; May 31; v. 286; p. 956.
Fraim-Slaymaker Hardware Company. (See Miller, George M., assignor.)
Francis, Charles W., assignor to Gillespie Motor Company, Paterson, N. J. Apparatus for making windings. No. 1,397,755; May 31; v. 286; p. 899.
Francis, Harold R., Los Angeles, Calif., assignor of one-half to F. W. Francis, Muscatine, Iowa. Cotter-pin. No. 1,379,908; May 31; v. 286; p. 927.
Francis, John T., Okanogan, Wash. Saw-setting apparatus. No. 1,377,826; May 10; v. 286; p. 334.
Francis, Peter W. (See Francis, Harold R., assignor.)
Francke, Ernest A. (See Johanson, P., and Francke.)
Franklin, Frederick W. (See Baker, W. W., and Franklin.)
Franz, John W. (See Franz, Louis G., assignor.)
Franz, Louis G., assignor of one-half to J. W. Franz, St. Louis, Mo. Motorman's stool. No. 1,377,332; May 10; v. 286; p. 239.
Frary, Francis C., Oakmont, Pa., assignor to Aluminum Company of America. Method of and apparatus for annealing sheets of metal. No. 1,377,574; May 10; v. 286; p. 284.
Frauenheim, Joseph A., and H. Etheridge, Zelienople, assignors to American Flexible Bolt Company, Pittsburgh, Pa. Rail-bond. No. 1,377,246; May 10; v. 286; p. 222.
Frazer, Mrs. M. (See Kohlruss, Jacob A., assignor.)
Frazer, Robert A., and L. F. G. Simmons, Teddington, England. Mooring for airships and the like. No. 1,378,341; May 17; v. 286; p. 483.
Fredericks, Harry A., Port Angeles, Wash. Donkey-engine crane. No. 1,380,292; May 31; v. 286; p. 1000.
Fredriksstad Elektrokemiske Fabriker A/S. (See Langhard, Johann K., assignor.)
Freeberg, John, Brooklyn, N. Y. Drop-light adjuster. No. 1,379,093; May 24; v. 286; p. 700.
Freedline, David, Brooklyn, N. Y. Hat stretcher and shaper. No. 1,380,201; May 31; v. 286; p. 983.
Freeman, Roe S., Atlanta, Ga. Tire-rack. No. 1,378,778; May 17; v. 286; p. 568.
Freeman, Thomas H., Lynch Mines, Ky. Horseshoe. No. 1,378,779; May 17; v. 286; p. 568.
French Battery & Carbon Co. (See Balderston, William, assignor.)
French Battery & Carbon Co. (See Weiss, Joseph W., assignor.)
French, Charles L., deceased, Cambridge, Mass.; J. B. French, administratrix, assignor to Standard Oil Company of New York, New York, N. Y. Pipe-fitting. No. 1,377,878; May 10; v. 286; p. 344.
French, James C., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,377,333; May 10; v. 286; p. 239.
French, Jennie B., administratrix. (See French, Charles L.)
French, Lindol, East Pepperell, Mass. Electrically-heated appliance. No. 1,378,850; May 24; v. 286; p. 654.
Frenier, Albert B., Chicago, Ill. Temperature-producing mechanism and controlling means therefor. No. 1,379,008; May 24; v. 286; p. 684.
Freudenberg, William, Enterprise, Oreg. Gate for irrigating-ditches. No. 1,378,342; May 17; v. 286; p. 483.
Freund, Joseph A., Newtonville, Mass., assignor to Keystone Watch Case Company, Philadelphia, Pa. Stem winding and setting device. No. 1,378,408; May 17; v. 286; p. 496.
Freyn and Company. (See Ives, Edward L., assignor.)
Frick, Robert, Chicago, Ill. Oiler. No. 1,377,195; May 10; v. 286; p. 211.
Friden, Carl M. F., Piedmont, assignor to Marchant Calculating Machine Company, Oakland, Calif. Calculating-machine. No. 1,379,009; May 24; v. 286; p. 684.
Fried. Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
Fried. Krupp Aktiengesellschaft. (See Becker, Julius, assignor.)
Fried. Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)
Fried. Krupp Aktiengesellschaft. (See Förster, Rudolf, assignor.)
Friedman, Benjamin. (See Reis, J. M., and Friedman.)
Friend, Jacob J., Everett, Mass. Caster. No. 1,380,054; May 31; v. 286; p. 956.
Friend, Joseph F. and P. R., Kenosha, Wis. Vaporizer. No. 1,378,780; May 17; v. 286; p. 568.
Friend, Peter R. (See Friend, Joseph F. and P. R.)
Friend, William N., Oakland, Calif. Paper-dispenser. No. 1,379,756; May 31; v. 286; p. 899.
Friermood, Charles L. (See Pfeifer, John, assignor.)
Friestedt, Sven H. (See Meade, W. H., and Friestedt.)
Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Shifter-fork plunger. No. 1,378,222; May 17; v. 286; p. 461.
Fritz, Robert C., assignor to Firm of "Invenit," G. M. B. H., Kassel, Germany. Hat-fastener. No. 1,376,930; May 3; v. 286; p. 105.
Fritzsche, George H., assignor to Taplex Corporation, Brooklyn, N. Y. Auto-radiator heater. No. 1,377,621; May 10; v. 286; p. 293.
Froger, Louis V. W., Lorient, France. Cable arrangement for towing. No. 1,378,102; May 17; v. 286; p. 438.
Froussard, Albert F., St. Louis, Mo. Elevator-locking device. No. 1,376,687; May 3; v. 286; p. 57.
Fruchtman, Theodore, New York, N. Y. Necktie and making the same. No. 1,379,256; May 24; v. 286; p. 731.
Fuegel, Gottlob and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Connection for shafts or journals. No. 1,378,446; May 17; v. 286; p. 503.
Fukuda, Kinsuke, Tokyo, Japan. Elastic tire. No. 1,377,011; May 3; v. 286; p. 120.
Fukuda, Kinsuke, Tokyo, Japan. Non-pneumatic rubber ball and manufacturing the same. (Reissue.) No. 15,108; May 24; v. 286; p. 796.
Fuld, William. (See Norwood, Harry G., assignor.)
Fulda, Edward, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,020; May 17; v. 286; p. 422.
Fulghum, Claude L. (See Fogal, J. E. W., and Fulghum.)
Fuller Brush Company, The. (See Hagstrom, Albert G., assignor.)
Fuller, Franz A., Newark, N. J. Match-box. No. 1,376,931; May 3; v. 286; p. 105.
Fuller, Franz A., Newark, N. J. Sharpening device for razor-blades. No. 1,378,851; May 24; v. 286; p. 654.
Fuller, Roy, St. Paul, Minn. Toy gun. No. 1,376,867; May 3; v. 286; p. 93.
Fulper, William H. (See Case, William W., assignor.)
Fulton Company, The. (See Adams, Arthur J., assignor.)
Fulton Iron Works Company. (See Hildebrand, Reinhard, assignor.)
Fulton, Jacob A., Astoria, Oreg. Surgical instrument. No. 1,376,754; May 3; v. 286; p. 70.
Fulwider, Oscar M., and A. E. Burruss, Norfolk, Va. Barrel-head. No. 1,377,334; May 10; v. 286; p. 239.
Fumagalli, Giacomo, C. Surico, and P. Cardone, assignors to Claremont Machine Co., New York, N. Y. Belt-shifter. No. 1,379,401; May 24; v. 286; p. 758.
Funk, Truman B., Moline, Ill. Hub-bearing. No. 1,378,587; May 17; v. 286; p. 530.
Funk, Truman B., Moline, Ill. Hub-bearing. No. 1,378,588; May 17; v. 286; p. 531.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fluid-applying machine. No. 1,376,524; May 3; v. 286; p. 27.
Furman, Horace, Petersburg, Va. Steam-boiler. No. 1,379,547; May 24; v. 286; p. 786.
Fyffe, Thomas L., Dundee, Scotland. Pipe-joint and the like. No. 1,379,811; May 31; v. 286; p. 909.
G. & J. Tire Company. (See Brown, Frank A., assignor.)
G. & J. Weir. (See Lang, Charles R., assignor.)
Gage, Walter F., Smith, Nev. Quilting-frame. No. 1,380,202; May 31; v. 286; p. 983.
Gagnon, Alexander, assignor to Fisher Body Corporation, Detroit, Mich. Latch. No. 1,376,755; May 3; v. 286; p. 71.
Gail, John F., assignor to Simmons Company, Kenosha, Wis. Tube-bending apparatus. No. 1,379,858; May 31; v. 286; p. 918.
Gaillard, Peter J., Chicago, Ill. Fluid-pressure rail-brake. No. 1,379,548; May 24; v. 286; p. 786.
Gaj, John, Detroit, Mich. Hunter's chair. No. 1,377,063; May 3; v. 286; p. 130.
Gal, Mathias, Cleveland, Ohio. Radiator. No. 1,378,103; May 17; v. 286; p. 439.
Galassi, Pasquale, Boston, Mass. Floor and method and apparatus for laying same. No. 1,377,675; May 10; v. 286; p. 304.
Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Tractor-drawn plow. No. 1,376,756; May 3; v. 286; p. 71.
Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Adjusting means for plows. No. 1,377,064; May 3; v. 286; p. 131.
Gallimore, John, Edinburgh, Scotland. Variable-speed change-gear indicator. No. 1,379,757; May 31; v. 286; p. 899.

Galloway, Charles D., Philadelphia, Pa. Storage battery. No. 1,376,932; May 3; v. 286; p. 105.

Gams, Alfons, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Aralkyl ester of 2-phenylquinolin-4-carboxylic acid. No. 1,378,343; May 17; v. 286; p. 484.

Gamse, H., & Bro. (See Brock, Addison W., assignor.)

Ganley, William, assignor to Radium Dial Company, Pittsburgh, Pa. Indicating and identifying means. No. 1,377,065; May 3; v. 286; p. 131.

Garbo, Nils F., Minneapolis, Minn. Ballot-assembling mechanism. No. 1,379,298; May 24; v. 286; p. 739.

Garceau, George H., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,379,681; May 31; v. 286; p. 885.

Garcia, Ignaci, Brooklyn, N. Y. Screw-propeller. No. 1,377,827; May 10; v. 286; p. 334.

Garelli, Adalberto, Milan, Italy. Engine for motorcycles and the like. No. 1,377,879; May 10; v. 286; p. 344.

Garl, Manious, Akron, Ohio. Electric relay. No. 1,379,540; May 24; v. 286; p. 786.

Garland, Arlington J. (See Ellis, W. F., and Garland.)

Garner, Frank. (See Long, Charles, assignor.)

Garr, Samuel R., Chula, Mo., assignor to American Smelting and Refining Company, New York, N. Y. Granulating converter-slag. No. 1,378,223; May 17; v. 286; p. 461.

Garrabrant, Lillian B., Brooklyn, N. Y. Curtain-holder. No. 1,377,066; May 3; v. 286; p. 131.

Garson, Issic H., Detroit, Mich. Advertising device. No. 1,378,538; May 17; v. 286; p. 521.

Gary, Edward S., Jr., Baltimore, Md. Bunch-builder for winding-machines. No. 1,378,171; May 17; v. 286; p. 452.

Gas Research Company, The. (See Smith, Harry F., assignor.)

Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Flour-sifter. No. 1,379,550; May 24; v. 286; p. 786.

Gash, William D., *et al.* (See Law, William E., assignor.)

Gaspard, Charles G., *et al.* (See Warrington, William J., assignor.)

Gaspard, Eugene C., Cleveland, Ohio. Vehicle-wheel. No. 1,380,138; May 31; v. 286; p. 971.

Gates, Laurence, Elyria, Ohio. Burial-vault. No. 1,376,615; May 3; v. 286; p. 45.

Gatewood, William F., Pierce City, Mo., assignor to G. L. Middleton, Venice, Calif. Gate. No. 1,379,094; May 24; v. 286; p. 700.

Gaunt, Charles F., Birmingham, England. Combined medal ribbon-bar and medal-suspender. No. 1,377,676; May 10; v. 286; p. 304.

Gauss, Henry C., Washington, D. C. Cryptography. No. 1,379,551; May 24; v. 286; p. 787.

Gay, Carleton B. (See Stanley, E. S., and Gay.)

Gay, Richard H., Washington, D. C. Holder for checks and vouchers. No. 1,377,415; May 10; v. 286; p. 255.

Gayner Glass Works. (See Gayner, John M., assignor.)

Gayner, John M., assignor to Gayner Glass Works, Salem, N. J. Bottle-crate. No. 1,379,010; May 24; v. 286; p. 685.

Gaynor, Arthur C., Stratford, Conn. Hinge for doorplates and other structures. No. 1,378,944; May 24; v. 286; p. 672.

Gazda, Adolph A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,376,426; May 3; v. 286; p. 10.

Gebhard, Conrad, Munich, Germany, assignor to "Asfag" Aktiengesellschaft, Glarus, Switzerland. Automatic locking device. No. 1,378,447; May 17; v. 286; p. 503.

Geese, Elmer E., Fresno, Calif. Device for splitting figs. No. 1,377,828; May 10; v. 286; p. 334.

Geiger, Clarence H., and T. E. Dunwody, Pressmen's Home, Tenn. Method of and means for dampening plate-cylinders in offset-process printing-presses. No. 1,377,769; May 10; v. 286; p. 322.

Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,378,852; May 24; v. 286; p. 655.

Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,378,853; May 24; v. 286; p. 655.

Gelst, George, New York, N. Y. Boat-hull. No. 1,379,552; May 24; v. 286; p. 787.

Gelbert, Alfred, assignor to American Chemical Laboratories, Chicago, Ill. Resonant diaphragm and making same. No. 1,377,677; May 10; v. 286; p. 304.

General Chemical Company. (See Riegel, Clarence W., assignor.)

General Chemical Company. (See Weekes, William F., assignor.)

General Electric Company. (See Axtell, Clinton J., assignor.)

General Electric Company. (See Bailey, Percy S., assignor.)

General Electric Company. (See Bergman, Sven R., assignor.)

General Electric Company. (See Berry, Arthur F., assignor.)

General Electric Company. (See Bower, George W., assignor.)

General Electric Company. (See Childs, Albert T., assignor.)

General Electric Company. (See Collins, Edgar F., assignor.)

General Electric Company. (See Halvorson, Cromwell A. B., Jr., assignor.)

General Electric Company. (See Hentschel, Charles T.)

General Electric Company. (See Junggren, Oscar, assignor.)

General Electric Company. (See McKay, John A., assignor.)

General Electric Company. (See Pragst, Ernest W., assignor.)

General Electric Company. (See Roberts, James L., assignor.)

General Electric Company. (See Sclater, Ivanhoe, H., assignor.)

General Electric Company. (See Shroyer, Jacob L., assignor.)

General Electric Company. (See Steenstrup, Christian, assignor.)

General Engineering Company. (See Genter, Albert L., assignor.)

General Fire Extinguisher Company. (See Hartwell, Joseph C., assignor.)

General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)

General Fuel Apparatus Corporation. (See Hoffman, William M., assignor.)

General Indurating Corporation. (See Lander, Wintworth V., assignor.)

General Machine & Manufacturing Co., The. (See Hjorth, David, assignor.)

General Motors Company. (See Johnson, Chester F., assignor.)

General Motors Corporation. (See Short, Charles R., assignor.)

General Railway Signal Company. (See Bushnell, Charles S., assignor.)

General Railway Signal Company. (See Leake, Richard C., assignor.)

Genter, Albert L., assignor of one-half to General Engineering Company, Salt Lake City, Utah. Continuous thickening process. No. 1,379,095; May 24; v. 286; p. 700.

Genton, Aime, assignor of one-third to R. L. Schmitt, Louisville, Ky. Wheel construction. No. 1,379,859; May 31; v. 286; p. 918.

Genton, Aime, assignor of one-third to R. L. Schmitt, Louisville, Ky. Loose-wheel mount. No. 1,379,860; May 31; v. 286; p. 919.

George, J. H., and E. A. Hawthorne, Bridgeport, Conn.; said George assignor to said Hawthorne. Lighting apparatus. No. 1,379,337; May 24; v. 286; p. 747.

George, Kimber A., Philadelphia, Pa. Combined brush and holder. No. 1,379,758; May 31; v. 286; p. 899.

Gerber, Walter, *et al.* (See Fahrni, Otto, assignor.)

Gerdeman, Frank H., Findlay, Ohio. Draft appliance for tractors. No. 1,379,759; May 31; v. 286; p. 899.

Gerlach, Fred, *et al.*, trustees. (See Cameron, William W., assignor.)

Gerlach, Rudolph P., Cleveland, Ohio. Barrel-stove-sawing machine. No. 1,379,682; May 31; v. 286; p. 885.

Gest, William E., assignor to Ozone Company of America, Milwaukee, Wis. Ozone-fume-removing apparatus. No. 1,378,104; May 17; v. 286; p. 439.

Gibbard, Henry T., Highland Park, Mich. Jack. No. 1,379,011; May 24; v. 286; p. 685.

Gibbard, Henry T., Highland Park, Mich. Jack. No. 1,379,012; May 24; v. 286; p. 685.

Gibbons, Harry R. (See Chat, Frank J., assignor.)

Gibbons, Sherwin, *et al.* (See Ziegler, George J., assignor.)

Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Adjustable-guard-rail braceplate. No. 1,376,525; May 3; v. 286; p. 28.

Gibson, Angus H. (See Roberts, E., and Gibson.)

Gibson, Hamilton, Seal Harbor, Me. Muffler for internal-combustion engines. No. 1,377,472; May 10; v. 286; p. 266.

Gibson, Leonard O., Rawlins, Wyo. Tire-valve for truck-tires. No. 1,376,808; May 3; v. 286; p. 93.

Gidlof, Conrad E., Elizabeth, assignor to American Ocarina and Toy Company, Inc., Newark, N. J. Game. No. 1,378,854; May 24; v. 286; p. 655.

Gilbert, John C., Grafton, Mass. Pneumatic-tire pump. No. 1,379,096; May 24; v. 286; p. 700.

Gilbert, Oliver C., New York, N. Y. Determining temperatures in metal-working. No. 1,379,909; May 31; v. 286; p. 927.

Gilbert, Royce W., Clinton, Iowa. Sectional building. No. 1,378,448; May 17; v. 286; p. 504.

Gillenwater, Charles T., and J. L. Pedigo, Bluefield, W. Va. Trolley-harp and trolley-head therefor. No. 1,376,688; May 3; v. 286; p. 57.

Gillespie, Gordon F. (See Paoli, Cesare, assignor.)

Gillespie, John B., Hoquiam, Wash. Straight-line knife. No. 1,379,973; May 31; v. 286; p. 940.

Gillespie, Mathias E., Roseburg, Oreg. Lock-nut and bolt. No. 1,377,196; May 10; v. 286; p. 211.

Gillespie Motor Company. (See Francis, Charles W., assignor.)

Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,376,526; May 3; v. 286; p. 28.

Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Reinforced door for railway-cars of the dumping type. No. 1,380,055; May 31; v. 286; p. 956.

Gipson, Andrew J., Perkins, Okla. Cotton-picking machine. No. 1,378,021; May 17; v. 286; p. 423.

Gilson, Albert F. F., Closter, N. J., and O. A. Shann, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Step-by-step circuit-closing device. No. 1,378,945; May 24; v. 286; p. 672.

Gilson, Albert F. F., Closter, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Fastening device. No. 1,378,946; May 24; v. 286; p. 672.

Gimperling, John E., assignor of one-fourth to C. N. Greer, Dayton, Ohio. Locking device. No. 1,377,335; May 10; v. 286; p. 240.

Girard, Antoine L., West Boylston, Mass. Toy. No. 1,378,022; May 17; v. 286; p. 423.

Girard, Louis B. (See Biddlecom, R. W., and Girard.)

Girvin, Charles W., Philadelphia, Pa. Electrical precipitation of particles from fluid streams. No. 1,378,224; May 17; v. 286; p. 461.

Gitzendanner, Charles Brooklyn, assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Signature-gathering machine. No. 1,380,293; May 31; v. 286; p. 1000.

Gitzendanner, Charles, Brooklyn, assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Bookbinding-machine. No. 1,380,294; May 31; v. 286; p. 1001.

Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Treating potash-bearing silicates. No. 1,379,914; May 31; v. 286; p. 929.

Glancy, James C. (See Heffernan, Michael, assignor.)

Glasener, Frank R., Rock Falls, Iowa. Collapsible seat or bed. No. 1,379,683; May 31; v. 286; p. 886.

Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,910; May 31; v. 286; p. 927.

Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,911; May 31; v. 286; p. 928.

Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,912; May 31; v. 286; p. 928.

Glaser, Joseph P., assignor to Chamberlin Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,913; May 31; v. 286; p. 929.

Glass, Ernest, Reading, Pa. Toothbrush. No. 1,378,781; May 17; v. 286; p. 569.

Glass, John E., Marion, Ky. Mail-exchange device. No. 1,379,974; May 31; v. 286; p. 940.

Gleason Works. (See Blackmore, John E. L., assignor.)

Gleason Works. (See Stewart, A. L., Bullock, and Earl, assignors.)

Gleichrichter-Aktiengesellschaft. (See Schäfer, Bela B., assignor.)

Glennon, James, Rochester, Minn. Dirigible headlight. No. 1,377,880; May 10; v. 286; p. 344.

Glick, Harvey C., Paris, Idaho. Caisson-dredge. No. 1,380,203; May 31; v. 286; p. 983.

Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)

Gloekler, Charles A., Pittsburgh, Pa. Counter-guard construction. No. 1,379,553; May 24; v. 286; p. 787.

Gloekler, Karl J. (See Ziefel, C., and Gloekler.)

Gnagy, Samuel, Strasburg, Ohio. Compensating bearing. No. 1,377,123; May 3; v. 286; p. 142.

Gochenour, Benjamin F., Maurertown, Va. Gate. No. 1,379,621; May 31; v. 286; p. 874.

Godbey, Walter H., Jr., assignor of one-third to G. H. Hyatt, Memphis, Tenn., and one-third to A. D. Gwynne, Dallas, Tex. Lock for automobiles. No. 1,377,124; May 3; v. 286; p. 142.

Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,377,197; May 10; v. 286; p. 211.

Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,379,097; May 24; v. 286; p. 700.

Golden, Thomas B., assignor to D. R. Knapp, Pottsville, Pa. Reclaiming broken rolls. No. 1,379,975; May 31; v. 286; p. 941.

Goldman, Max M., Somerville, Mass. Towing device. No. 1,378,225; May 17; v. 286; p. 462.

Goldmann, Paul E., Pittsburgh, Pa. Advertising device. No. 1,379,861; May 31; v. 286; p. 919.

Goldsmith, William M., Cincinnati, Ohio. Metal bead for plastics. No. 1,379,862; May 31; v. 286; p. 919.

Goldston, Charles. (See Love, C. A., and Goldston.)

Goldstone, Max, New Haven, Conn. Burglar-alarm. No. 1,377,198; May 10; v. 286; p. 212.

Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,378,855; May 24; v. 286; p. 655.

Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,378,856; May 24; v. 286; p. 655.

Gonia, George B., Somerville, Mass. Track-switch. No. 1,380,099; May 31; v. 286; p. 964.

Gonsky, Peter R., Chicago, Ill. Container for new and discarded articles. No. 1,379,098; May 24; v. 286; p. 701.

Gonsalez, Feliciano, New York, N. Y. Dental tool. No. 1,379,445; May 24; v. 286; p. 766.

Good Inventions Co. (See Good, John, assignor.)

Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion-engine. No. 1,376,527; May 3; v. 286; p. 28.

Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Operating internal-combustion engines. No. 1,377,989; May 10; v. 286; p. 365.

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion-engine. No. 1,377,990; May 10; v. 286; p. 365.

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion apparatus. No. 1,379,177; May 24; v. 286; p. 716.

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Inclosed combustion apparatus and ignition. No. 1,379,178; May 24; v. 286; p. 716.

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Inclosed combustion apparatus. No. 1,379,179; May 24; v. 286; p. 716.

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Liquid-fuel burner. No. 1,379,180; May 24; v. 286; p. 716.

Goodfellow, Allan, Norton, Mass. Lawn-mower attachment. No. 1,379,555; May 24; v. 286; p. 787.

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,378,947; May 24; v. 286; p. 673.

Goodwin, A. B. (See Urie, James W., assignor.)

Goodwin, George D., McRae, Mont. Invalid-chair. No. 1,380,056; May 31; v. 286; p. 956.

Goodyear Tire & Rubber Company, The. (See Bedford, C. W., and Kelly, assignors.)

Goodyear Tire & Rubber Company, The. (See Burdette, Richard S., assignor.)

Goodyear Tire & Rubber Company, The. (See Post, Clifford W., assignor.)

Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)

Goossen, Franz M., Hillsboro, Kans. Dumping-truck. No. 1,377,881; May 10; v. 286; p. 344.

Gordon, Belrne, Jr. (See Rooney, Elwin H., assignor.)

Gordon Pen Company. (See Abegg, Julius, assignor.)

Gore, Thomas, Brooklyn, N. Y. Wire-drawing machine. No. 1,379,181; May 24; v. 286; p. 716.

Gorham, William R., Alameda, Calif. Piston. No. 1,379,257; May 24; v. 286; p. 731.

Gorlach, Karol, New York, N. Y. Fishing-tackle. No. 1,379,402; May 24; v. 286; p. 758.

Gorman, John, Hot Springs, Ark. Headlight-dimmer. No. 1,379,556; May 24; v. 286; p. 787.

Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. High-speed lifting-jack. No. 1,376,869; May 3; v. 286; p. 93.

Gormley, Frank L., Brookline, assignor to A. O. Norton Inc., Boston, Mass. Lifting-jack. No. 1,378,226; May 17; v. 286; p. 462.

Goss, Gladys, Nevada, Mo. Jointed rag doll. No. 1,379,013; May 24; v. 286; p. 685.

Goss Printing Press Company. (See Walser, J. J., and Fankboner, assignors.)

Gostlin, Frederick J., assignor to The Star Rubber Company, Akron, Ohio. Apparatus for curing tire-casings. No. 1,378,172; May 17; v. 286; p. 452.

Gould Storage Battery Company. (See Chamberlain, Rufus N., assignor.)

Gould, William H. P., Jr., Walla Walla, Wash. Plant-setting machine. No. 1,376,933; May 3; v. 286; p. 105.

Gove, Emery T., Berkeley, Calif. Aeroplane-propeller. No. 1,380,057; May 31; v. 286; p. 956.

Government of the United States. (See Stone, Andrew J., assignor.)

Graf, Carl, Cologne-Rodenkirchen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing a surrogate for tannin. No. 1,376,805; May 3; v. 286; p. 81.

Graff, Frederick W., and J. V. Oppel, San Francisco, Calif. Making beverages. No. 1,376,870; May 3; v. 286; p. 94.

Graff, Louis J., Pittsburgh, Pa. Cross furring-strip. No. 1,376,806; May 3; v. 286; p. 81.

Graham, David M., Borduiac, N. D., assignor to Graham-Roach Harvester & Stacker Company, of North Dakota. Method of and apparatus for forming stacks of grain for curing. No. 1,376,757; May 3; v. 286; p. 71.

Graham, David M., Borduiac, N. D., assignor to Graham-Roach Harvester and Stacker Company. Apparatus for forming and depositing stacks of grain and the like. No. 1,377,336; May 10; v. 286; p. 240.

Graham, James H. (See Weston, F. P., and Graham.)

Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Wire spoke connection. (Reissue.) No. 15,109; May 24; v. 286; p. 796.

Graham, Milford H. (See MacMinn, A. H., and Graham.)

Graham-Roach Harvester & Stacker Company. (See Graham, David M., assignor.)

Granby, Colin, Chicago, Ill. Safety-valve. No. 1,277,199; May 10; v. 286; p. 212.

Grand Rapids Refrigerator Company. (See Whittier, Walter H., assignor.)

Grand Rapids Show Case Company. (See Curtiss, Arthur F., assignor.)

Grant, Colin, Jackson, Mich. Detachable handle. No. 1,376,528; May 3; v. 286; p. 28.

Grant, Colin, Jackson, Mich. Repair-handle. No. 1,376,529; May 3; v. 286; p. 28.

Grant, John J., *et al.* (See Brock, Joseph, assignee.)

Graphoscope Company. (See Jenkins, Charles F., assignor.)
Graton, Claude D., Newark, N. J. Negotiable paper. No. 1,378,673; May 17; v. 286; p. 548.
Grauman, L. Fixture Company. (See Wompey, John J., assignor.)
Gray, Daniel T., Louisville, Ky. Removable valve-seat. No. 1,376,427; May 3; v. 286; p. 10.
Gray & Davis, Inc. (See Moses, William B., assignor.)
Gray, Gardner B., deceased, and A. G. Williamson; H. F. Gray, executrix; assignors, by mesne assignments, to Pittsburgh Train Control Company, Pittsburgh, Pa. Power-actuated system of switch control. No. 1,377,200; May 10; v. 286; p. 212.
Gray, Garold C. J. (See Whitcomb, J., and Gray.)
Gray, Harry H., Kansas City, Mo. Direction-indicator for motor-cars. No. 1,379,863; May 31; v. 286; p. 919.
Gray, Helen F., executrix. (See Gray, G. B., and Williamson.)
Gray, James H., New York, N. Y. Operating mechanism for electric furnaces. No. 1,376,758; May 3; v. 286; p. 71.
Gray, John T., Great Falls, Mont. Receiver-hook switch for portable telephones. No. 1,379,557; May 24; v. 286; p. 788.
Grearson, Frederick A. (See Watt, D. C., and Grearson.)
Greaves William A., Cincinnati, Ohio. Tailstock. No. 1,380,139; May 31; v. 286; p. 972.
Greeley, James A., *et al.* (See Sewell, Arthur L., assignor.)
Green, Charles F., Defiance, and H. W. Lindsey, Jr., assignors to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,379,812; May 31; v. 286; p. 910.
Green, Charles R., Indianapolis, Ind. Pneumatic ball-protector. No. 1,379,403; May 24; v. 286; p. 759.
Green, David D., Milwaukee, Wis. Cover for washing-machine tubs. No. 1,379,014; May 24; v. 286; p. 686.
Greenbaum, Charles. (See Cook, A., and Greenbaum.)
Greenbaum, George B., *et al.* (See Lamb, Homer M., assignor.)
Greenbaum, Israel F. (See Marinsky, Louis, assignor.)
Greene, Frederick B., New Haven, Conn. Fishing device. No. 1,376,934, May 3; v. 286; p. 106.
Greene, Robert, London, Ontario, Canada. Roadway. No. 1,379,813; May 31; v. 286; p. 910.
Greener, Harry, Birmingham, England. Cartridge for small-arms, machine-guns, and the like. No. 1,376,530; May 3; v. 286; p. 28.
Greening, Horace, Dorchester, England. Collapsible box. No. 1,377,678; May 10; v. 286; p. 304.
Greenleaf, Robert P. (See Billings, F., and Greenleaf.)
Greenlee Bros. & Co. (See Mansfield, Judson H., assignor.)
Greenough, Henry B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-transferring mechanism. No. 1,377,337; May 10; v. 286; p. 240.
Greenstreet, Milfred L., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo. Coin-holder. No. 1,378,227; May 17; v. 286; p. 462.
Greenwood, Alexander S., Chicago, Ill. Timed or intermittent operating device. No. 1,376,531; May 3; v. 286; p. 29.
Greenwood, Edward, Phillips, Me. Toothpick-machine. No. 1,376,616; May 3; v. 286; p. 45.
Greer, Clarence N. (See Gimperling, John E., assignor.)
Gregory, Alton N., Seattle, Wash. Twine-cutter. No. 1,379,864; May 31; v. 286; p. 919.
Gregson, Shirley D. (See Thurman, George R., assignor.)
Gretsinger, William, Baltimore, Md. Painters' blowtorch. No. 1,380,140; May 31; v. 286; p. 972.
Greve, Edgar E., Bellevue, Pa. Rotary well-drilling apparatus. No. 1,377,575; May 10; v. 286; p. 284.
Greve, Herman L., New York, N. Y., assignor to International Mailing Tube and Wrapper Company. Mailing-wrapper. No. 1,376,871; May 3; v. 286; p. 94.
Greve, Herman L., New York, N. Y., assignor to International Mailing Tube and Wrapper Company. Mailing-wrapper. No. 1,376,872; May 3; v. 286; p. 94.
Griewank, Arthur C., San Francisco, Calif. Concrete railway-car. No. 1,378,374; May 17; v. 286; p. 490.
Grifferth, William G., Athens, Ga. Safety locking device and antirattler. No. 1,378,783; May 17; v. 286; p. 569.
Griffin, Eddie F., Uniontown, Pa. Coke-shovel. No. 1,378,782; May 17; v. 286; p. 569.
Griffin, James T., Oak Park, C. A. Nelson, Chicago, and M. H. Campbell, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Soldering-machine. No. 1,379,684; May 31; v. 286; p. 886.
Griffith, Chauncey H., New York, N. Y., assignor to Mergenthaler Linotype Company. Printing-form and the art and means for producing same. No. 1,376,532; May 3; v. 286; p. 2.
Griffith, Robert C., Baltimore, Md. Strap-lock for containers. No. 1,380,204; May 31; v. 286; p. 984.
Griggs, John O., Youngstown, Ohio. Portable back wall for open-hearth furnaces. No. 1,376,617; May 3; v. 286; p. 45.
Griggs, John O., Youngstown, Ohio. Apparatus for and method of cutting drains in furnace-bottoms. No. 1,376,935; May 3; v. 286; p. 106.
Grikscheit, William, Detroit, Mich. Priming-cup. No. 1,376,533; May 3; v. 286; p. 29.
Grikscheit, William, Detroit, Mich. Valve-fitting. No. 1,376,534; May 3; v. 286; p. 29.
Grimm, Paul H., F. L. Cocks, and O. C. Duryea, Glen Cove, N. Y. Combined primer and automatic auxiliary air-valve for internal-combustion engines. No. 1,378,449; May 17; v. 286; p. 504.
Grinnell, Brayton C., Seattle, Wash. Glove. No. 1,377,338; May 10; v. 286; p. 240.
Griswold Manufacturing Company. (See Hollands, John C., assignor.)
Griswold, Marius E., Burlington, Iowa. Juvenile wagon. No. 1,376,873; May 3; v. 286; p. 94.
Gritte, Joseph. (See Camell, R., Cochet, and Gritte.)
Grizzel, Frank S., Sharps Chapel, Tenn. Bill-file. No. 1,379,299; May 24; v. 286; p. 739.
Groebl, Adolph F., Oyster Bay, N. Y. Viol. No. 1,377,067; May 3; v. 286; p. 131.
Gronbech, Christian E. A., Woodhaven, N. Y. Safety-razor. No. 1,376,759; May 3; v. 286; p. 71.
Grönman, Frans, Inwood, N. Y. Hinge for windows. No. 1,377,882; May 10; v. 286; p. 344.
Gross, Angus R., Baltimore, Md. Parking-light for automobiles, &c. No. 1,380,058; May 31; v. 286; p. 956.
Gross, William, Sauk Rapids, Minn. Door construction. No. 1,376,535; May 3; v. 286; p. 29.
Grosvenor, William M., New York, N. Y., assignor to Perkins Glue Company. Vegetable glue and making same. No. 1,378,105; May 17; v. 286; p. 439.
Grosvenor, William M., New York, N. Y., assignor to Perkins Glue Company. Vegetable glue and making same. No. 1,378,106; May 17; v. 286; p. 439.
Grosvold, Fred E., Eau Claire, Wis. Ball-valve for closet-tanks. No. 1,377,883; May 10; v. 286; p. 345.
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Groton Electrical Devices. (See Bassette, John G., assignor.)
Grove, Carl T. (See Wagner, P. R., and Grove.)
Gruenfeld, Julius J., Jr., Chicago, Ill. Sofa-bed. No. 1,379,300; May 24; v. 286; p. 739.
Gruenfeldt, Emil, Cleveland, Ohio. Regulating sound-box reproduction. (Reissue). No. 15,114; May 31; v. 286; p. 1009.
Grunwald, Albert C., assignor to Precision Metal Workers, Chicago, Ill. Oil-cup. No. 1,380,059; May 31; v. 286; p. 957.
Grunwald, Albert C., Chicago, Ill., assignor to Precision Metal Workers. Oil-cup. No. 1,380,060; May 31; v. 286; p. 957.
Grupe, William F., North Bergen, N. J., and A. A. Adamson, Brooklyn, N. Y. Rim-board. No. 1,379,622; May 31; v. 286; p. 875.
Gschwind, Leon, Youngstown, Ohio. Washing-machine. No. 1,377,473; May 10; v. 286; p. 266.
Gsell, Henry A., Paris, France. Apparatus for packing matches in boxes for match-making machines. No. 1,378,784; May 17; v. 286; p. 569.
Guagliardo, Joseph, Hammond, La. Pneumatic tire. No. 1,379,915; May 31; v. 286; p. 929.
Guasch, Fidelio, San Nicolas, Cuba. Traction-shoe for vehicle-wheels. No. 1,377,679; May 10; v. 286; p. 304.
Gueugnon, François, Paris, France. Apparatus for recording various phenomena by the movement of the recording-strip. No. 1,379,916; May 31; v. 286; p. 929.
Guilfoile, Francis P. (See Beron, Frank G., assignor.)
Guiline, Henry L., Bordeaux, Quebec, Canada. Calendar. No. 1,378,857; May 24; v. 286; p. 656.
Gunn, Charles H., Oakland, Calif. Extension-table. No. 1,378,375; May 17; v. 286; p. 490.
Gunn, Thomas M., New York, N. Y., assignor to Electric Boat Company. Disappearing gun for submarines. No. 1,376,536; May 3; v. 286; p. 29.
Gunther, Ami H., Chillicothe, Ohio. Making backing-plate for artificial teeth. No. 1,377,474; May 10; v. 286; p. 266.
Gurjar, Anant M., St. Paul, Minn. Whole-rice food and producing the same. No. 1,377,125; May 3; v. 286; p. 142.
Gustafson, August J., Maywood, Ill. Hinge-butt. No. 1,379,814; May 31; v. 286; p. 910.
Gustafson, Oscar, Seattle, Wash. Tool-holder. No. 1,380,317; May 31; v. 286; p. 1005.
Gutmann, Moritz, Seattle, Wash. Brush. No. 1,379,976; May 31; v. 286; p. 941.
Guy, Henry L., Manchester, England., assignor to The British Westinghouse Electric and Manufacturing Company. Steam-turbine. No. 1,379,258; May 24; v. 286; p. 731.
Guy, Samuel R., assignor to Hobbs Storage Battery Co., Los Angeles, Calif. Storage battery. No. 1,377,148; May 3; v. 286; p. 146.
Gwynne, Andrew D., *et al.* (See Godbey, Walter H., Jr., assignor.)
Haas, Lucien L. (See MacKenzie, R. J., and Haas.)
Haas, Vincent M., Philadelphia, Pa. Draft device. No. 1,377,475; May 10; v. 286; p. 266.
Hachmann, Frederick, assignor of one-half to B. G. Vieth and one-fourth to D. M. Hutchinson, St. Louis, Mo. Toy vehicle. No. 1,378,023; May 17; v. 286; p. 423.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,376,537; May 3; v. 286; p. 30.

Hadland, Carl A., Ostrander, Minn. Building-block. No. 1,377,149; May 3; v. 286; p. 146.
Hadley, J. M., *et al.* (See Roach, William H., assignor.)
Haefele, Albert H., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Battery-terminal. No. 1,377,126; May 3; v. 286; p. 142.
Haefele, Albert H., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electrode-terminal. No. 1,377,127; May 3; v. 286; p. 142.
Haefele, Albert H., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electrode-terminal. No. 1,377,128; May 3; v. 286; p. 143.
Haege, Louis, New Memphis, Ill. Rat, mouse, and insect trap. No. 1,379,685; May 31; v. 286; p. 886.
Haeppner, John F. (See O'Neal, J., and Haeppner.)
Haffner, Julius A., Lima Mont. Emergency axle attachment. No. 1,379,558; May 24; v. 286; p. 788.
Hagan, James. (See Horn, W., and Hagan.)
Hage, Robert R., Minneapolis, Minn. Removable fence-post. No. 1,378,948; May 24; v. 286; p. 673.
Hagen, Harold F., assignor to B. F. Sturtevant Company, Boston, Mass. Fan-chart. No. 1,378,107; May 17; v. 286; p. 439.
Hager, Andrew J., Quincy, Mass. Tool. No. 1,377,829; May 10; v. 286; p. 334.
Hagstrom, Albert G., East Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Wire-bending machine. No. 1,377,150; May 3; v. 286; p. 147.
Hahn, John, Los Angeles, Calif. Deep-well pump. No. 1,378,949; May 24; v. 286; p. 673.
Hahn, William J., Philadelphia, Pa. Current-saving device. No. 1,377,476; May 10; v. 286; p. 267.
Hahne & Company. (See Dorr, Harry A., assignor.)
Hahnemann, Walter, Kiel, assignor to Firm Signal Gesellschaft M. B. H. Kiel, Germany. Underwater wave telegraphy. No. 1,377,129; May 3; v. 286; p. 143.
Hails, Edward T., Montgomery, Ala. Cleaning phonograph-records. No. 1,378,344; May 17; v. 286; p. 484.
Haight, Loyd R., Spokane, Wash. Amalgam-mixer for dentists. No. 1,377,680; May 10; v. 286; p. 304.
Haines, Robert E., assignor to Landers, Frary & Clark, New Britain, Conn. Faucet. No. 1,378,539; May 17; v. 286; p. 522.
Hake, Charles F., Jr., Cincinnati, Ohio. Machine for soldering the joints of sheet-metal cans. No. 1,377,339; May 10; v. 286; p. 240.
Haley, Dennis, Mount Pleasant, Iowa. Hen's nest. No. 1,378,785; May 17; v. 286; p. 569.
Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Drag-scraper. No. 1,377,830; May 10; v. 286; p. 334.
Hall, Arthur J., and C. C. Whittaker, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Demonstrating device. No. 1,378,024; May 17; v. 286; p. 423.
Hall, James R., Winnfield, La. Oil-well screen and liner-cleaner. No. 1,379,815; May 31; v. 286; p. 910.
Hall Printing Press Company, *et al.* (See White, Joseph, assignor.)
Hall, Ray E., Chicago, Ill., assignor to Hall Research Corporation. Method and means for translating energy variations. No. 1,378,345; May 17; v. 286; p. 484.
Hall Research Corporation. (See Hall, Ray E., assignor.)
Hall, Sidney W., San Antonio, Tex. Gradometer. No. 1,378,540; May 17; v. 286; p. 522.
Hall, Zachariah A., Hespeler, Ontario, Canada. Stove or range. No. 1,376,689; May 3; v. 286; p. 58.
Halladay, Lewis P., Decatur, Ill. Bumper bar. No. 1,377,340; May 10; v. 286; p. 241.
Haller, Frederick C., Pittsburgh, Pa. Oven-wall construction. No. 1,378,346; May 17; v. 286; p. 484.
Hallilday, Robert T., Cross, Blackwood, Scotland. Lawn-mower. No. 1,379,559; May 24; v. 286; p. 788.
Hallowell, Howard T., Philadelphia, Pa. Metal bench-leg. No. 1,379,623; May 31; v. 286; p. 875.
Halvorson, Charles G., Brandt, S. D. Automobile-pull-out mechanism. No. 1,380,205; May 31; v. 286; p. 984.
Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Protective device for incandescent lamps. No. 1,379,560; May 24; v. 286; p. 788.
Hambeuchen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Battery hand-lamp. No. 1,377,477; May 10; v. 286; p. 267.
Hamel, Charles W., St. Louis, Mo. Game apparatus. No. 1,376,874; May 3; v. 286; p. 94.
Hamiel, I. J. (See Hostler, E. D., Hamiel, and Mather.)
Hamilton-Beach Mfg. Co. (See Nielsen, Emanuel, assignor.)
Hamilton, Fredrick M., Dayton, Ohio. Pipe-wrench. No. 1,379,978; May 31; v. 286; p. 941.
Hamilton, John L., Boston, Mass., assignor to Safandshur Chemical Co., Inc., New York, N. Y. Container. No. 1,378,674; May 17; v. 286; p. 548.
Hamilton, Paul H., Cleveland, Ohio. Burner. No. 1,379,301; May 24; v. 286; p. 739.
Hamilton, Thomas H., New York, N. Y. Lifting-dock. No. 1,380,141; May 31; v. 286; p. 972.
Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Trunk-locking mechanism. No. 1,377,770; May 10; v. 286; p. 322.
Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Drawer-locking device. No. 1,379,977; May 31; v. 286; p. 941.
Hammell, James. (See Davis, W. J., and Hammell.)
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Band jar-closure. No. 1,376,760; May 3; v. 286; p. 72.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Catsup-bottle cap. No. 1,376,761; May 3; v. 286; p. 72.
Hammer, Edwin B., H. H. Knott, and C. J. Jungbluth, Washington, Iowa, assignors to Washington Manufacturing Company. Making pearl-button blanks. No. 1,377,491; May 10; v. 286; p. 270.
Hammerle, Frank H., Wilmerding, Pa. Ticket-holder. No. 1,377,576; May 10; v. 286; p. 284.
Hammett, F. Royal. (See Patterson, Thomas S., assignor.)
Hammond, Harry F., South Shaftsbury, Vt., assignor to N. A. Siraco, Whitehall, N. Y. Headlight. No. 1,379,182; May 24; v. 286; p. 717.
Hammond, Alfred C., Columbia, S. C. Attachment for cake-formers. No. 1,377,831; May 10; v. 286; p. 335.
Hammond, George, *et al.*, executors. (See Keiper, Henry B.)
Hammond, Harry F., South Shaftsbury, Vt., assignor to N. A. Siraco, Whitehall, N. Y. Headlight. No. 1,379,446; May 24; v. 286; p. 766.
Hammond, John H., Jr. (See Trenor, Albert D., assignor.)
Hammond, John H., Jr., Gloucester, Mass. Position-revealing system for torpedoes. No. 1,376,762; May 3; v. 286; p. 72.
Hammond, William P., Passaic, N. J. Combined spare-tire holder and rear bumper for automobiles. No. 1,376,807; May 3; v. 286; p. 81.
Hanau, Carl S., deceased; D. G. Hanau, executrix, New York, N. Y. Paper-feeding machine. No. 1,376,875; May 3; v. 286; p. 95.
Hanau, Dorothy G., executrix. (See Hanau, Carl S.)
Hanan, Joseph. (See Hanan, Louis and J.)
Hanan, Louis and J., Brooklyn, N. Y. Resilient tire. No. 1,379,979; May 31; v. 286; p. 941.
Hancock, Horace G., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,376,763; May 3; v. 286; p. 72.
Hanf, Jefferson W. (See Egerton, C. W., and Hanf.)
Hanff, Edward A., Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,379,686; May 31; v. 286; p. 886.
Hanley, Herbert R., San Francisco, Calif. Apparatus for generating gases and treating solutions therewith. No. 1,377,478; May 10; v. 286; p. 267.
Hanlon, John H., Somerville, Mass. Drifting-valve. No. 1,378,786; May 17; v. 286; p. 569.
Hanner, Edward, Philadelphia, Pa. Tree or plant support. No. 1,377,832; May 10; v. 286; p. 335.
Hans, Edmund E., Kalamazoo, Mich. Wheel. No. 1,378,025; May 17; v. 286; p. 423.
Hans, Edmund E., Kalamazoo, Mich. Filtering means for lubricating systems. No. 1,379,259; May 24; v. 286; p. 731.
Hansen, Charles, San Jose, Calif. Phonograph. No. 1,379,338; May 24; v. 286; p. 747.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Liquid-fuel burner. No. 1,377,479; May 10; v. 286; p. 167.
Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Co., Chicago, Ill. Pressure-reducing valve. No. 1,378,026; May 17; v. 286; p. 424.
Hansen, Einar, Paris, France. Concentration of sulfuric acid. No. 1,379,260; May 24; v. 286; p. 731.
Hansen, Hans, Maspeth, N. Y., assignor to Eastern Tube and Tool Co., Inc. Non-metallic flexible conduit. No. 1,376,618; May 3; v. 286; p. 45.
Hansen, Hans G., Richmond Beach, Wash. Milk-can. No. 1,377,341; May 10; v. 286; p. 241.
Hanson, Hugo H., and A. C. Walker, Bangor, Me., assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Plating-bath. No. 1,380,142; May 31; v. 286; p. 972.
Hanson, Thure, Worcester, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Measuring-can. No. 1,377,577; May 10; v. 286; p. 284.
Harbert, Francis J., assignor of one-half to W. T. Harbert, Twin Falls, Idaho. Automobile-tire tool. No. 1,378,787; May 17; v. 286; p. 570.
Harbert, Willis T. (See Harbert, Francis J., assignor.)
Harbrecht, Henry P., Sandusky, Ohio. Pulp-molding apparatus. No. 1,377,342; May 10; v. 286; p. 241.
Hardy, Harry B., Quincy, Calif. Rim for mounting tires. No. 1,377,343; May 10; v. 286; p. 241.
Hargan, Augustus D., Bayonne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording-key. No. 1,378,950; May 24; v. 286; p. 673.
Harker, Frederick. (See Wall, C. F., and Harker.)
Harkness, William J., Pittsburgh, Pa. Drill-stem coupling. No. 1,379,980; May 31; v. 286; p. 941.
Harley, John S., Waltham Abbey, England. Production of yarn, twine, cord, and the like by spinning or twisting flat strips of material. No. 1,379,981; May 31; v. 286; p. 942.
Harmon, Frank L., Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Duplex eyelet-machine. No. 1,379,687; May 31; v. 286; p. 886.

Harmon, Frank L., Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Means for setting eyelets. No. 1,379,688; May 31; v. 286; p. 887.

Harp, William I., assignor of one-third to J. Linn and one-third to R. B. Todd, Galax, Va. Non-skid-chain tightener and adjuster. No. 1,378,027; May 17; v. 286; p. 424.

Harper, Tom, Columbia, Miss. Well-bucket. No. 1,378,450; May 17; v. 286; p. 504.

Harper, William, Campbell, Nebr. Means for use in installing transmission-bands for automobiles. No. 1,376,690; May 3; v. 286; p. 58.

Harpman, Charles A. (See Velcio, John, assignor.)

Harrell, John D., Belleview, Fla. Hasp. No. 1,377,344; May 10; v. 286; p. 242.

Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Nadel, assignors.)

Harriman National Bank of the City of New York, trustee. (See Vasselli, Anthony, assignor.)

Harris, Carl C., assignor to Rodney Hunt Machine Company, Orange, Mass. Gudgeon. No. 1,379,760; May 31; v. 286; p. 899.

Harris, Hugh H., Alexandria, Va. Combined clip and thermometer-carrier. No. 1,377,578; May 10; v. 286; p. 285.

Harris, Joseph B., Cleveland, Ohio. Demountable rim. No. 1,377,771; May 10; v. 286; p. 322.

Harris, Rex, Ocean Beach, Calif. Wave-motor. No. 1,379,183; May 24; v. 286; p. 717.

Harris, Robert E., El Paso, Tex. Locking device for motor-vehicles. No. 1,376,876; May 3; v. 286; p. 95.

Harrison, Arthur W. (See Farrington, Herbert O., assignor.)

Harrison, Thomas, Weston, Ontario, Canada. Pin-package. No. 1,379,624; May 31; v. 286; p. 875.

Harrison, Thomas Q., Denver, Colo. Permanent calendar. No. 1,378,376; May 17; v. 286; p. 490.

Hart, Franklin H., New Haven, Conn., assignor to C. Cowles & Company. Curtain roller and bracket. No. 1,378,347; May 17; v. 286; p. 484.

Hart, Hubert C., Unionville, Conn. Handled implement. No. 1,376,764; May 3; v. 286; p. 72.

Hart, Joe H., Fillmore, Calif. Antisander for piston-pumps. No. 1,379,302; May 24; v. 286; p. 739.

Hart, Lewis J., and F. R. White, assignors to The Patent Butter Company, Waterbury, Conn. Button. No. 1,378,108; May 17; v. 286; p. 440.

Hart, Thomas J., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor-overload regulator. No. 1,378,028; May 17; v. 286; p. 424.

Hartford-Fairmont Company. (See Peller, Karl E., assignor.)

Hartley, Stephen J. (See Barnard, Alfred W. A., assignor.)

Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa. Dehydrator. No. 1,376,691; May 3; v. 286; p. 58.

Hartman, John, Milwaukee, Wis. Vegetable-cutting machine. No. 1,378,451; May 17; v. 286; p. 504.

Hartman, Noble W., Toledo, assignor to The Continental Tractor Company, Continental, Ohio. Tractor driving-gear. No. 1,378,228; May 17; v. 286; p. 462.

Hartman, Rudolph B., Milwaukee, Wis. Reinforced concrete construction. No. 1,379,625; May 31; v. 286; p. 875.

Hartmeyer, Lewis I., Cleveland, Ohio. Automobile-marking device. No. 1,377,345; May 10; v. 286; p. 242.

Hartness, James, Springfield, Vt. Inspecting and gaging screw-threads. No. 1,377,068; May 3; v. 286; p. 131.

Hartness, James, Springfield, Vt. Mechanism for gaging screw-threads. No. 1,377,069; May 3; v. 286; p. 132.

Hartsock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Draft means for vehicles. No. 1,379,982; May 31; v. 286; p. 942.

Hartwell, Joseph C., assignor to General Fire Extinguisher Company, Providence, R. I. Hot-water heating system. No. 1,378,348; May 17; v. 286; p. 484.

Hartzell, Forest H., Dayton, Ohio. Electroplating-barrel. No. 1,377,155; May 3; v. 286; p. 147.

Hartzell Sales Company, The. (See Mason, Julius H., assignor.) (Reissue.)

Harvey, Leaman S., assignor to Lane Manufacturing Company, Waterbury, Conn. Ball-and-socket fastener. No. 1,376,765; May 3; v. 286; p. 72.

Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Rim construction for disk wheels. No. 1,376,808; May 3; v. 286; p. 81.

Harvey Rim & Wheel Company. (See Harvey, Louis B., assignor.)

Harvey, William A., Scranton, Pa. Portable electric lamp. No. 1,380,143; May 31; v. 286; p. 972.

Harvey, William A., Scranton, Pa. Electric chandelier fixture. No. 1,380,144; May 31; v. 286; p. 973.

Harwell, John S., Murrycross, Ala. Furrow-marker. No. 1,378,788; May 17; v. 286; p. 570.

Hashimoto, Shozaburo, Seattle, Wash. Imitation stone and manufacturing same. No. 1,377,130; May 3; v. 286; p. 143.

Haskel, Fred, Detroit, Mich. Shim. No. 1,379,816; May 31; v. 286; p. 910.

Haskell, George D., Concord, assignor to United States Machine Gun Company, Boston, Mass. Machine-gun. No. 1,379,339; May 24; v. 286; p. 747.

Haslup, Dodson, Grafton, W. Va. Bottle-cap remover. No. 1,376,692; May 3; v. 286; p. 58.

Hastings, Herbert, Brighton, N. Y. Fluid-gage. No. 1,379,404; May 24; v. 286; p. 759.

Hatfield, William H. (See Fairholme, F. C., Hatfield, and Stanfield.)

Hathaway, Edgar F., and C. M. Mars, Dorchester, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Metallic heddle mechanism for textile-machines. No. 1,379,099; May 24; v. 286; p. 701.

Hathaway, Harry D., Buffalo, N. Y. Pedal attachment for automobiles. No. 1,379,561; May 24; v. 286; p. 788.

Hatmaker, William T., assignor to The Protecto Pump Company, Dayton, Ohio. Measuring-pump. No. 1,378,029; May 17; v. 286; p. 424.

Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Automatic asphalt-smoothing iron. No. 1,378,675; May 17; v. 286; p. 548.

Hauer, Elmer E., Springfield, Ohio. Piston. No. 1,377,346; May 10; v. 286; p. 242.

Hausfeld, Joseph B., Cincinnati, Ohio. Burner for furnaces. No. 1,378,951; May 24; v. 286; p. 673.

Havener, Arthur R., Wayland, Mass., assignor to American Lacing Hook Co. Lacing-stud-setting machine with automatic stop. No. 1,379,303; May 24; v. 286; p. 740.

Hawkins, Raymond L., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. No. 1,379,015; May 24; v. 286; p. 686.

Hawksley, Coleman O., & W. J. Baumann, Philadelphia, Pa. Saw-tooth gage. No. 1,378,409; May 17; v. 286; p. 497.

Hawley Pulp and Paper Company. (See Swick, Clyde E., assignor.)

Hawthorne Company, The. (See Nikonow, John P., assignor.) (Reissue.)

Hawthorne, Ellsworth A. (See George, J. H., and Hawthorne.)

Hawthorne, Ellsworth A., Bridgeport, Conn. Electrical connection. No. 1,378,952; May 24; v. 286; p. 674.

Hawthorne Ellsworth A., Bridgeport, Conn. Lamp. No. 1,380,100; May 31; v. 286; p. 964.

Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp-bracket. No. 1,379,761; May 31; v. 286; p. 900.

Hay, John H., Calgary, Alberta, Canada. Valve, tap, and the like. No. 1,379,030; May 17; v. 286; p. 425.

Hayda, Oscar, Boston, assignor of one-third to E. Bergé-soler, Newton Highlands, and one-third to A. J. Fotch, Dorchester, Mass. Preparation of fruits for foods and beverages. No. 1,377,681; May 10; v. 286; p. 305.

Hayden, Amos S., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fluid-applying machine. No. 1,376,538; May 3; v. 286; p. 30.

Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Making motor-fuel. No. 1,378,858; May 24; v. 286; p. 656.

Hayes Pump and Planter Company. (See Hayes, Ralph W. E., assignor.)

Hayes, Ralph W. E., assignor of one-half to Hayes Pump and Planter Company, Galva, Ill. Pump-jack. No. 1,379,917; May 31; v. 286; p. 929.

Hayes-Ruppel Manufacturing Company. (See Ruppel, Frederick C., assignor.)

Hayman, Frederick J., Brooklyn, N. Y. Renovating and ironing frame for necktie. No. 1,380,101; May 31; v. 286; p. 965.

Hayman, Leffy T. (See Albury, R. C., and Hayman.)

Haynes, Edward A., Port Huron, Mich. Box. No. 1,379,100; May 24; v. 286; p. 701.

Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Seal for storage-battery terminals. No. 1,380,061; May 31; v. 286; p. 957.

Hazeltine, Louis A., Hoboken, N. J., assignor, by mesne assignments, to Ware Radio, Inc. Shielding radio apparatus. No. 1,379,184; May 24; v. 286; p. 717.

Hazelton, George, Portadown, Ireland, assignor to The British Metal and Toy Manufacturers Limited, London, England. Mechanical toy. No. 1,376,766; May 3; v. 286; p. 72.

Healy, James A., Brooklyn, N. Y. Amusement apparatus. No. 1,379,185; May 24; v. 286; p. 717.

Heap, William A., assignor to C. M. Crews, Topeka, Kans. Change-receptacle. No. 1,378,173; May 17; v. 286; p. 452.

Heath, Samuel, Philadelphia, Pa. Combination heating and cooking stove. No. 1,378,859; May 24; v. 286; p. 656.

Heathcote, William L., Kansas City, Mo. Hot-cake machine. No. 1,378,377; May 17; v. 286; p. 490.

Hecht, John S., and A. T. Dowell, St. Albans, England. Obturator-ring. No. 1,378,109; May 17; v. 286; p. 440.

Hecker, George, Borosolvay, Calif., assignor to Pacific Coast Borax Company, New York, N. Y. Recovery of potash from potash-bearing brines. No. 1,378,410; May 17; v. 286; p. 497.

Hecker, John H., Covington, Ohio. Dispensing apparatus for automobile service. No. 1,379,562; May 24; v. 286; p. 789.

Hedden, Fred F., Los Angeles, Calif. Stepladder. No. 1,377,579; May 10; v. 286; p. 285.

Heddon's, James, Sons. (See Stolley, William A., assignor.)

Hedge, Sam, assignor to Hedge's Orange Ale Company, Detroit, Mich. Liquid-dispensing apparatus. No. 1,377,347; May 10; v. 286; p. 242.

Hedge's Orange Ale Company. (See Hedge, Sam, assignor.)

Heffernan, Michael, Carrap, Edenhope, Victoria, assignor of one-third to J. C. Glancy, Apsley, Victoria, Australia. Attachment for discharging contents from vessels. No. 1,380,062; May 31; v. 286; p. 957.

Hegamin, Edgar D., St. Louis, Mo. Flower-holder. No. 1,379,340; May 24; v. 286; p. 747.

Hegeler, Julius W., Danville, Ill. Treating ores preparatory to smelting. No. 1,378,411; May 17; v. 286; p. 497.

Hegwer, Herman J., Oakland, Calif. Purse. No. 1,379,817; May 31; v. 286; p. 911.

Helby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Blank for fuse-bodies and the like and forming the same. No. 1,379,983; May 31; v. 286; p. 942.

Heldman, George, *et al.* (See Blood, Burr B., assignor.)

Heldrich, Stephen L., Brooklyn, N. Y. Support for reinforcing-bars. No. 1,380,332; May 31; v. 286; p. 1008.

Helmbach, Alton R., Duluth, Minn. Wrench. No. 1,377,772; May 10; v. 286; p. 323.

Heindrich, Frances, New York, N. Y. Detachable brassière and corset combination. No. 1,378,676; May 17; v. 286; p. 548.

Heineke, Carl. (See Heineke, Gustave A. and C.)

Heineke, Gustave A. and C., Chicago, Ill. Machine for cleaning furs. No. 1,377,247; May 10; v. 286; p. 222.

Heinle, Albert W., Crafton, Pa., assignor of one-half to C. D. Russell and one-half to E. B. Swygart, St. Paul, Minn. Method and apparatus for making specially-shaped bars. No. 1,378,860; May 24; v. 286; p. 656.

Heinlein, Edward A., and R. A. Stolle, Los Angeles, Calif. Safety device for oiling systems of motors. No. 1,378,349; May 17; v. 286; p. 484.

Helmrich, William. (See Capewell, William R. H., assignor.)

Helfrich, Michael D. (See Henn, William A., assignor.)

Helguera, Ignacio, Trenton, N. J. Keyboard finger-guide. No. 1,377,070; May 3; v. 286; p. 132.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Self-compounding phase-converter. No. 1,376,428; May 3; v. 286; p. 10.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phase-converter exciting system. No. 1,376,429; May 3; v. 286; p. 10.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for exciting phase-converters. No. 1,376,430; May 3; v. 286; p. 10.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,376,431; May 3; v. 286; p. 10.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for induction-machines. No. 1,376,432; May 3; v. 286; p. 11.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for dynamo-electric machines. No. 1,376,433; May 3; v. 286; p. 11.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for operating induction-machines. No. 1,376,434; May 3; v. 286; p. 11.

Hellmund, Rudolf E., and L. M. Perkins, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine and system of control therefor. No. 1,379,405; May 24; v. 286; p. 759.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine and system of control therefor. No. 1,379,406; May 24; v. 286; p. 759.

Hellstrom, Oscar B., Neutral Bay, Sydney, New South Wales, Australia. Trousers-stretcher. No. 1,377,580; May 10; v. 286; p. 285.

Hem, Halvorn Q., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,378,110; May 17; v. 286; p. 441.

Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Lock-stitch sewing-machine. No. 1,378,677; May 17; v. 286; p. 549.

Hemphill Manufacturing Company. (See Bosworth, George P., assignor.)

Henderson, Albert H., Towson, Md. Manufacture of steel. No. 1,378,861; May 24; v. 286; p. 656.

Henderson, Daniel O., Denver, Colo. Robe-rail. No. 1,377,682; May 10; v. 286; p. 305.

Henderson, Robert H., East Orange, N. J. Combined hand and stationary conduit-bender. No. 1,379,016; May 24; v. 286; p. 686.

Henderson, William A. (See Chestnut, C., E., and Henderson.)

Hendrickson, Robert O., assignor to Wallis Tractor Company, Racine, Wis. Valve-actuating mechanism. No. 1,378,111; May 17; v. 286; p. 440.

Hendrickson, Robert O., assignor to J. I. Case Plow Works Company, Racine, Wis. Guiding mechanism for tractors. No. 1,379,762; May 31; v. 286; p. 900.

Henes, William M., Amherst, Ohio. Bed-pad. No. 1,377,683; May 10; v. 286; p. 305.

Henn, William A., assignor of one-half to M. D. Helfrich, Evansville, Ind. Attachment for woodworking-shapers. No. 1,378,350; May 17; v. 286; p. 485.

Henne, Isabelle, and J. L. Freo, New York, N. Y. Machine for affixing heels to shoes. No. 1,376,539; May 3; v. 286; p. 30.

Hennessy, Daniel E., Cudahy, Wis., assignor to The Sturdi-Truck Company, Northampton, Mass. Elevating-truck. No. 1,376,809; May 3; v. 286; p. 81.

Hennessy, James J., New York, N. Y. Automatic journal-lubricator. No. 1,378,452; May 17; v. 286; p. 504.

Hennessy, James J., New York, N. Y. Hub-lubricating device. No. 1,378,453; May 17; v. 286; p. 505.

Henry, Ivan, *et al.* (See Newth, Basil, assignor.)

Henry, John. (See Kemnal, J., and Henry.)

Henry, Joseph, Philadelphia, Pa. Transmission-band. No. 1,378,862; May 24; v. 286; p. 656.

Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Pump for hydraulic presses. No. 1,377,248; May 10; v. 286; p. 222.

Henschel, Charles J., Brooklyn, N. Y. Lamp-fixture. No. 1,377,480; May 10; v. 286; p. 268.

Hensley, Charles G., Brooklyn, N. Y. Reproducer for phonographs. No. 1,379,407; May 24; v. 286; p. 759.

Hentschel, Charles T., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,378,454; May 17; v. 286; p. 505.

Hepler, Walter. (See Reed, W. B., and Hepler.)

Hepworth, S S Company, *et al.*, assignees. (See Mackintosh, Edward D.) (Reissue.)

Herbert, Thomas L., and M. W. Askin, Washington, D. C. Liquid-measuring device. No. 1,379,763; May 31; v. 286; p. 900.

Herman, Frank J., Los Angeles, Calif. Adjustable socket-wrench. No. 1,379,918; May 31; v. 286; p. 930.

Herman, Lewis, Jr., Summer Hill, New South Wales, Australia. Manufacture of hats. No. 1,379,341; May 24; v. 286; p. 747.

Hermistone, John C. S., Boston, Mass. Pipe-cutter. No. 1,376,936; May 3; v. 286; p. 106.

Herndon, Thomas H., Washington, D. C. Magnetic-wave therapeutic apparatus. No. 1,379,919; May 31; v. 286; p. 930.

Herron, James W., Oildale, Calif. Method of and apparatus for pumping petroleum-oil from wells. No. 1,376,877; May 3; v. 286; p. 95.

Herron, Warren S., Centerville, Mich., and F. W. Thomas, Toledo, Ohio, assignors, to Dr. Denton Sleeping Garment Mills, Centerville, Mich. Garment. No. 1,378,863; May 24; v. 286; p. 657.

Herschel, Claude J., St. Joseph, Mo. Nail-remover. No. 1,377,071; May 3; v. 286; p. 132.

Hershey, Harry E. (See Yanochowski, G. A., and Hershey.)

Hervieu, Gaston, and P. M. G. Maréchal, London, England. Portable shed, hangar, and other similar structure. No. 1,376,937; May 3; v. 286; p. 106.

Heryngfel, Serge, and F. Dubreucq, Charenton, France; said Dubreucq assignor to said Heryngfel. Machine for grinding tools and for similar purposes. No. 1,377,884; May 10; v. 286; p. 345.

Herzog, Louis, Beacon, N. Y. Embroidery-knife. No. 1,379,920; May 31; v. 286; p. 930.

Herzog, Soma, New York, N. Y. Chair. No. 1,377,773; May 10; v. 286; p. 323.

Hescheles, Isidore M., New York, N. Y. Partition structure for boxes. No. 1,379,563; May 24; v. 286; p. 789.

Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry & Machine Company. Portable elevator. No. 1,376,540; May 3; v. 286; p. 30.

Hess, Eugene F., Pasadena, Calif. Sprinkler-head. No. 1,376,767; May 3; v. 286; p. 73.

Hess, Meyer S., Baltimore, Md. Shoe. No. 1,379,564; May 24; v. 286; p. 789.

Hess, Wendell, Jr., Troy, N. Y. Device for measuring graphic records. No. 1,376,768; May 3; v. 286; p. 73.

Hess, William. (See Brown, J. W., and Hess.)

Hettinger, Julius E., Chicago, Ill. Heel. No. 1,378,864; May 24; v. 286; p. 657.

Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,378,112; May 17; v. 286; p. 440.

Hewitt, Peter C., Ringwood Manor, N. J. Propeller. No. 1,378,113; May 17; v. 286; p. 441.

Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,378,114; May 17; v. 286; p. 441.

Hewett, Robert J., Westfield, N. J. Directionally-controlled signal system. No. 1,380,145; May 31; v. 286; p. 973.

Heyl & Patterson. (See Covert, Edson C., assignor.)

Heyler, Wilber C., Kent, Oreg. Grain-hopper attachment for harvesters. No. 1,376,435; May 3; v. 286; p. 11.

Heylman, Edward M., deceased. Citizen's Trust & Savings Bank, South Bend, Ind., administrator. Motor-clutch throw-out. No. 1,378,953; May 24; v. 286; p. 674.

Heylman, Edward M., deceased. Citizen's Trust & Savings Bank, South Bend, Ind., administrator. Automatic clutch throw-out for tractors. No. 1,378,954; May 24; v. 286; p. 674.

Hibbard, Robert L., Pittsburgh, Pa. Milling-machine. No. 1,378,865; May 24; v. 286; p. 657.
Hickok, Emory, Engle, N. Mex. Door-hanger. No. 1,379,565; May 24; v. 286; p. 789.
Hicks, Enoch O., St. Joseph, Mo. Distilling petroleum. No. 1,378,229; May 17; v. 286; p. 462.
Hicks, Jeremiah, Philadelphia, Pa. Stairway-trap. No. 1,380,295; May 31; v. 286; p. 1001.
Hieatzman, Arthur H., Baltimore, Md. Rind-removing meat-slicing machine. No. 1,376,810; May 3; v. 286; p. 82.
Hilberg, Michael J., Norwood, Ohio. Automobile cabinet attachment. No. 1,376,693; May 3; v. 286; p. 59.
Hildebrand, Reinhard, Webster Groves, Mo. Cylinder-head for internal-combustion engines. No. 1,376,620; May 3; v. 286; p. 46.
Hildebrand, Reinhard, Webster Groves, Mo. Cylinder-head for internal-combustion engines. No. 1,376,621; May 3; v. 286; p. 46.
Hildebrand, Reinhard, Webster Groves, assignor to Fulton Iron Works Company, St. Louis, Mo. Controlling mechanism for internal-combustion engines. No. 1,376,619; May 3; v. 286; p. 45.
Hilgers, John, Binghamton, N. Y. Nose-shaper. No. 1,378,455; May 17; v. 286; p. 505.
Hill, Clarence A., Columbus, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio. Kerosene-burner. No. 1,377,072; May 3; v. 286; p. 132.
Hill, Joseph A., Sheffield, England. Fire-bar for furnaces. No. 1,379,261; May 24; v. 286; p. 731.
Hill, Myron F., New York, N. Y., assignor to Cast Steel Ship Corporation. Ship. No. 1,376,878; May 3; v. 286; p. 95.
Hill, Poindexter, Bethesda, Ark. Boat. No. 1,380,296; May 31; v. 286; p. 1001.
Hilliard, Frank H., assignor of one-half to H. L. Smith, Fitzgerald, Ga. Tool. No. 1,377,348; May 10; v. 286; p. 242.
Hiller, Joseph L., Mattapoisett, Mass. Cutter-tip. No. 1,380,146; May 31; v. 286; p. 973.
Hills, Sidney C. assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Curtain-fixture. No. 1,376,541; May 3; v. 286; p. 30.
Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Bracket for curtain-fixtures. No. 1,376,542; May 3; v. 286; p. 31.
Hilton, Einar, Vancouver, British Columbia, Canada. Engine. No. 1,377,581; May 10; v. 286; p. 285.
Himes, Charles C., Indianapolis, Ind. Radiator-cap. No. 1,379,626; May 31; v. 286; p. 875.
Hines, Charles L., Council Bluffs, Iowa. Washboard. No. 1,377,885; May 10; v. 286; p. 345.
Hines, Harry E., Detroit, Mich. Rifle. No. 1,376,694; May 3; v. 286; p. 59.
Hinman, Charles W., Winchester, Mass. Gas-meter. No. 1,376,543; May 3; v. 286; p. 31.
Hinnekens, Florent, Paterson, N. J. Bearing. No. 1,379,818; May 31; v. 286; p. 911.
Hinton, Vachel O., Kansas City, Kans. Horse-shading attachment for vehicles. No. 1,378,031; May 17; v. 286; p. 425.
Hippie, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,376,436; May 3; v. 286; p. 11.
Hiscock, Edward D., Odell, Oreg. Carbureter-heater. No. 1,378,789; May 17; v. 286; p. 570.
Hitchcock, Edgar M. (See La Febr, F. E., Hitchcock, and Leahy.)
Hitner, Harry F., Wilkinsburg, Pa. Electric-lamp socket. No. 1,380,063; May 31; v. 286; p. 958.
Hjorth, David, assignor to The General Machine & Manufacturing Co., Bridgeport, Conn. Electric snap-switch. No. 1,379,819; May 31; v. 286; p. 911.
Hoar, George W., Waltham, Mass., assignor to Service Electric Manufacturing & Supply Company. Canopy for electric-light fixtures. No. 1,380,147; May 31; v. 286; p. 973.
Hoare, Arthur W., Shoreham, England. Animal-trap. No. 1,376,695; May 3; v. 286; p. 59.
Hobbs Storage Battery Co. (See Guy, Samuel R., assignor.)
Hobson, Amon, Glendale, Ariz. Combined stalk-cutter and soil-pulverizer. No. 1,377,073; May 3; v. 286; p. 132.
Hodgson, Harold W., Worcester, Mass. Punch-grinding machine. No. 1,377,481; May 10; v. 286; p. 268.
Hoffman, Frank K., *et al.* (See Snyder, George C., assignor.)
Hoffman, Israel, Brooklyn, N. Y. Hair-waver. No. 1,380,064; May 31; v. 286; p. 958.
Hoffman, Leonard E. (See Martin, Clyde W., assignor.)
Hoffman, Reuben F., Hamilton, Ohio. Steering mechanism. No. 1,378,456; May 17; v. 286; p. 505.
Hoffman, Roscoe C., Indianapolis, Ind. Making disk wheels and rims. No. 1,376,622; May 3; v. 286; p. 46.
Hoffman, Roscoe C., Hammond, Ind. Disk wheel for vehicles. No. 1,376,938; May 3; v. 286; p. 107.
Hoffman, William A., St. Louis, Mo., assignor to Johns-Manville Incorporated. Form for molding monolithic baffle-walls for water-tube boilers and making the same. No. 1,377,774; May 10; v. 286; p. 323.
Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,378,115; May 17; v. 286; p. 441.
Hoffmann, Irving S., Columbus, Ohio. Mold for tubes and tires. No. 1,378,678; May 17; v. 286; p. 549.
Hogstrom, Peter, New York, N. Y. Roof-door. No. 1,380,207; May 31; v. 286; p. 984.
Hoil, Tobias, Buffalo, N. Y., assignor to R. L. Phillips, Atlanta, Ga. Pump. No. 1,379,764; May 31; v. 286; p. 900.
Hoisington, William R., Walthill, Nebr. Hog catching and holding device. No. 1,377,833; May 10; v. 286; p. 335.
Hoke, William E., Washington, D. C. Wear-resisting surface. No. 1,379,984; May 31; v. 286; p. 942.
Holbrook, J. F. (See Youle, William E., assignor.)
Holdbrook, Albert C. H., Providence, R. I. Cigarette-rolling device. No. 1,379,865; May 31; v. 286; p. 920.
Holden, Joseph B., Syracuse, assignor to Remington Typewriting Company, Ilion, N. Y. Typewriting-machine. No. 1,376,879; May 3; v. 286; p. 95.
Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Ribbon-spool holder for typewriting-machines. No. 1,379,408; May 24; v. 286; p. 760.
Holder, John I., Copiague, N. Y., assignor to The Barrett Company. Combined waterproof sheet and flashing receptacle. No. 1,377,349; May 10; v. 286; p. 242.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,377,981; May 10; v. 286; p. 363.
Holland, James, and W. G. Welch, Gonic, N. H. Broom-protector. No. 1,378,457; May 17; v. 286; p. 505.
Holland, James E., Douglasville, Ga. Swing. No. 1,379,566; May 24; v. 286; p. 789.
Hollands, John C., assignor to Griswold Manufacturing Company, Erie, Pa. Kettle. No. 1,377,684; May 10; v. 286; p. 305.
Holle, Alexander A., Westminster, London, England. Aerofoil for aeroplanes. No. 1,379,921; May 31; v. 286; p. 930.
Holley, George M. (See Anderson, Raymond M., assignor.)
Hollingsworth, Cecil L., St. Louis, Mo. Adjustable offset tool-holder. No. 1,379,866; May 31; v. 286; p. 920.
Hollister, William C., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Printing-form and ruling same. No. 1,378,230; May 17; v. 286; p. 462.
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Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lay-sword. No. 1,377,834; May 10; v. 286; p. 335.
Holmes, Gwyllyn R., and W. J. Wisch, assignor to The Bull Dog Lock Washer Co., Baltimore, Md. Nut-lock. No. 1,378,116; May 17; v. 286; p. 441.
Holmes, Harleigh R., Denver, Colo. Power transmission for wheels. No. 1,377,131; May 3; v. 286; p. 143.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,377,132; May 3; v. 286; p. 143.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,378,809; May 17; v. 286; p. 574.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,810; May 17; v. 286; p. 574.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,811; May 17; v. 286; p. 574.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,812; May 17; v. 286; p. 574.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine. No. 1,378,813; May 17; v. 286; p. 574.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,814; May 17; v. 286; p. 575.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,815; May 17; v. 286; p. 575.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,816; May 17; v. 286; p. 575.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,817; May 17; v. 286; p. 575.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,818; May 17; v. 286; p. 576.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,819; May 17; v. 286; p. 575.
Holmes, Rudolph, and A. O. Abbott, Jr., Detroit, Mich., assignor to Morgan & Wright. Method and apparatus for cutting plastic material. No. 1,379,627; May 31; v. 286; p. 876.
Holmquist, John A., Woodlawn, Pa. Wire-fence machine. No. 1,378,955; May 24; v. 286; p. 674.
Holmquist, John A., Woodlawn, Pa. Take-up reel for wire-fence machines. No. 1,378,956; May 24; v. 286; p. 674.
Holmquist, John A., Woodlawn, Pa. Crimping-drum for wire-fence machines. No. 1,378,957; May 24; v. 286; p. 674.

Holmquist, John A., Woodlawn, Pa. Wire-fence machine. No. 1,378,958; May 24; v. 286; p. 675.
Holt, Isaac E., Seattle, Wash. Display-frame. No. 1,378,458; May 17; v. 286; p. 506.
Holt, J. A. B. (See Matson, Edgar C., assignor.)
Holt, Josephine L., Portland, Oreg. Abdominal supporter. No. 1,379,101; May 24; v. 286; p. 701.
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt, Marx, Chicago, Ill. Tabular subfiling folder. No. 1,378,959; May 24; v. 286; p. 675.
Holt, William, assignor of one-half to Brolt Limited, Birmingham, England. Self-regulating dynamo-electric machine. No. 1,377,074; May 3; v. 286; p. 133.
Holton Tractor Company. (See Dittbrenner, John C., assignor.)
Holtschneider, Leo G., Jefferson City, Mo. Humidifier. No. 1,380,208; May 31; v. 286; p. 984.
Holzapfel, Albert C., New York, N. Y. Surface-coating composition. No. 1,379,018; May 24; v. 286; p. 686.
Holzapfel, Albert C., New York, N. Y. Surface-coating composition. No. 1,379,019; May 24; v. 286; p. 686.
Homer, Joseph, Boston, Mass. Dental articulator. No. 1,377,075; May 3; v. 286; p. 133.
Homers, Harry P., New Haven, Conn. Window-sash. No. 1,379,304; May 24; v. 286; p. 740.
Homrighous, John H., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,378,231; May 17; v. 286; p. 463.
Honold, Gottlob, Stuttgart, Germany, assignor to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Battery ignition for internal-combustion engines. No. 1,377,482; May 10; v. 286; p. 268.
Hons, Henry F., Jr., San Francisco, Calif. Transmission-band. No. 1,378,459; May 17; v. 286; p. 506.
Hood, Eugene J. (See Hood, William J., and E. J.)
Hood, Harrison H., Chicago, Ill. Universal joint. No. 1,376,437; May 3; v. 286; p. 12.
Hood, John H., Philadelphia, Pa. Toy pistol. No. 1,376,544; May 3; v. 286; p. 31.
Hood, Lazarus S., assignor, by mesne assignments, to E. B. Ogders, Philadelphia, Pa. Tool-handle. No. 1,376,811; May 3; v. 286; p. 82.
Hood, William J., and E. J., Toledo, Ohio. Magnetic screwdriver. No. 1,378,032; May 17; v. 286; p. 425.
Hooker, Edwin R., and E. C. Kausrud, Los Angeles, Calif. Automatic tire-gage. No. 1,377,582; May 10; v. 286; p. 285.
Hooper, Stanton C., and G. H. Clark, Washington, D. C. Radio-receiving antenna. No. 1,379,262; May 24; v. 286; p. 732.
Hope, George. (See Dutcher, R. O., and Hope.)
Hopkins, Cecil B., San Francisco, Calif. Concrete-form. No. 1,379,820; May 31; v. 286; p. 911.
Hopkins, John C., Cedar Rapids, Iowa. Street-car signal. No. 1,378,790; May 17; v. 286; p. 570.
Hopkinson, Ernest, New York, N. Y. Device for obtaining quantities of molten glass. No. 1,378,460; May 17; v. 286; p. 506.
Horn, Albert W., Chicago, Ill. Continuous automatic gravity-discharge reheating-furnace. No. 1,380,102; May 31; v. 286; p. 965.
Horn, Charles A., W. Woodhaven, N. Y., assignor of one-fourth to E. Rundle, East Orange, and one-fourth to H. E. Lombard, Bloomfield, N. J. Steam-generator. No. 1,376,812; May 3; v. 286; p. 82.
Horn, Charles A., Woodhaven, N. Y., assignor of one-fourth to W. E. Rundle, East Orange, and one-fourth to H. E. Lombard, Bloomfield, N. J. Steam-superheater. No. 1,379,409; May 24; v. 286; p. 760.
Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Main-wheel unit for timepieces. No. 1,378,866; May 24; v. 286; p. 657.
Horn, William, and J. Hagan, Oneonta, assignors to Quality Silk Mills, Inc., New York, N. Y. Glove-pointing machine. No. 1,378,820; May 17; v. 286; p. 576.
Hornig, Charles E., Jersey City, N. J. Velocipede. No. 1,377,886; May 10; v. 286; p. 345.
Hornung, Charles G., assignor to Larkin Co., Buffalo, N. Y. Box or container. No. 1,376,939; May 3; v. 286; p. 107.
Horsley, Peter, Chicago, Ill. Window. No. 1,378,828; May 17; v. 286; p. 577.
Horspool, Francis L., Salt Lake City, Utah. Rotary engine. No. 1,379,028; May 24; v. 286; p. 688.
Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,376,813; May 3; v. 286; p. 82.
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Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for detecting under-water vibrations. No. 1,378,960; May 24; v. 286; p. 675.
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Horton, Richard W., assignor to Barnett Samuel & Sons Limited, London, England. Talking-machine. No. 1,376,880; May 3; v. 286; p. 96.
Horvath, Geza, Highland Park, Mich. Fuel-economizing device. No. 1,377,963; May 10; v. 286; p. 360.
Horvath, Geza, Highland Park, Mich. Speed-controlling device for vehicles. No. 1,377,964; May 10; v. 286; p. 360.
Horvath, Geza, assignor to National Can Company, Detroit, Mich. Radiator construction. No. 1,377,965; May 10; v. 286; p. 360.
Hoskin, William, assignor of one-third to L. L. Richardson, Denver, Colo. Milk-bottle carrier. No. 1,377,350; May 10; v. 286; p. 243.
Hostler, Edgar D., I. J. Hamiel, and C. H. Mather, Tipton, Iowa, assignors of one-half to said Hostler, one-fourth to said Hamiel, and one-fourth to said Mather. Vulcanizer. No. 1,379,447; May 24; v. 286; p. 767.
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Hotchkiss, Louis A., and P. W. Stocum; said Stocum assignor to A. E. Hotchkiss, Oshkosh, Wis. Axle construction. No. 1,377,685; May 10; v. 286; p. 305.
Hotchkiss, Wallace J., Alpena, S. D. Handle. No. 1,379,020; May 24; v. 286; p. 686.
Houck, William A., Reading, Pa. Cop-mounting. No. 1,377,416; May 10; v. 286; p. 255.
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Houley, Joseph C., and C. E. Shaw, Chicago, Ill. Phonograph-cabinet. No. 1,378,117; May 17; v. 286; p. 441.
House, Milus M., Indianapolis, Ind., assignor to The Dentists' Supply Company. Specimen set-up for artificial teeth. No. 1,379,689; May 31; v. 286; p. 887.
Houseman, Walter H., and G. Bronson, Highland Park, Mich. Automobile-boat. No. 1,380,319; May 31; v. 286; p. 1005.
Houston, W. O. (See Seal, Theodore T., assignor.)
Howard, Benjamin W., Newmarket, Ontario, Canada. Vehicle. No. 1,379,567; May 24; v. 286; p. 789.
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Howard, John A., Sr., West New Brighton, N. Y., assignor to The Camward Engineering Co., Inc. Adjustable rest for washboards. No. 1,377,076; May 3; v. 286; p. 133.
Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Trolley-frame. No. 1,376,881; May 3; v. 286; p. 96.
Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Recovering sulfur dioxid. No. 1,377,012; May 3; v. 286; p. 120.
Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Obtaining a continuous flow of SO_2 from white metal. No. 1,377,013; May 3; v. 286; p. 121.
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Howell, Joseph A., Dover, Ohio. Time-controlled desk-memorandum. No. 1,379,342; May 24; v. 286; p. 747.
Howells, Thomas J. (See Jones, John T., assignor.)
Howland, Robert J., *et al.* (See Brown, Theophilus M., assignor.)
Howley, Thomas H. A., New York, and Dooley, J. J., Brooklyn, N. Y. Plaster-board. No. 1,379,444; May 24; v. 286; p. 766.
Hoyle, Ernest, Brooklyn, N. Y. Chuck. No. 1,377,351; May 10; v. 286; p. 243.
Hoyle, Millard F., Dallas, Tex. Plastic base for poles. No. 1,378,351; May 17; v. 286; p. 485.
Hrib, George, Simpson, W. Va. Gear box and drive for aeroplane-propellers. No. 1,377,483; May 10; v. 286; p. 268.
Hromadko, Joseph A., New Haven, Conn., assignor to The Motor Radiator & Manufacturing Corporation. Radiator. No. 1,376,882; May 3; v. 286; p. 96.
Hubbard, Roscoe C., New York, N. Y. Apparatus for the developing, &c., of films. No. 1,377,887; May 10; v. 286; p. 346.
Hubbell, Harry C., assignor to Willard Storage Battery Company, Cleveland, Ohio. Method and means for making electrical connections. No. 1,378,461; May 17; v. 286; p. 506.
Huebner Bleistein Patents Co. (See Huebner, William C., assignor.)
Huebner, William C., assignor to Huebner Bleistein Patents Co., Buffalo, N. Y. Photographic-printing apparatus. No. 1,377,249; May 10; v. 286; p. 222.
Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-printing apparatus. No. 1,377,250; May 10; v. 286; p. 222.
Huffman, Orla L., Weatherford, Tex. Washing-machine. No. 1,378,541; May 17; v. 286; p. 522.
Huffman, Orla L., Weatherford, Tex. Steering attachment. No. 1,378,542; May 17; v. 286; p. 522.
Hufford, Ernest C., Los Angeles, Calif. Preparing retread-matrix and product thereof. No. 1,380,320; May 31; v. 286; p. 1005.
Hughens, Robert L., Atlanta, Ga. Push-rod connection for automobile-engine valves. No. 1,379,343; May 24; v. 286; p. 748.
Hughes, Arthur J. (See Starling, S. G., and Hughes.)
Hughes, Charles B., New Orleans, La. Tension device for use in orthopedic surgery. No. 1,380,297; May 31; v. 286; p. 1001.
Hughes, Charles H., assignor of one-half to F. C. Cramer, Denver, Colo. Outlet-valve for gasolene-dispensing apparatus of filling stations. No. 1,377,835; May 10; v. 286; p. 335.
Hughes, Harry D. (See Hughes, Stanley R. and H. D.)
Hughes, Henry, and Son Limited. (See Starling, S. G., and Hughes, assignors.)
Hughes, John T., Council Bluffs, Iowa. Steering and braking device for aeroplanes. No. 1,378,233; May 17; v. 286; p. 463.

Hughes, John T., Council Bluffs, Iowa. Aeroplane shock-absorber. No. 1,378,234; May 17; v. 286; p. 463.

Hughes, Robert R., Jr., Naperville, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,376,623; May 3; v. 286; p. 46.

Hughes, Stanley R., Benton, and H. D. Hughes, Lytle, Tex. Oil-pump. No. 1,379,690; May 31; v. 286; p. 887.

Hulbert, Ansel C., San Francisco, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and V. A. Shafer, trustees for the National Auto Signal Company. Automobile signal-switch. No. 1,379,985; May 31; v. 286; p. 942.

Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Machine for forming shells of paper or the like. No. 1,380,103; May 31; v. 286; p. 965.

Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Machine for forming shells of paper or the like. No. 1,380,104; May 31; v. 286; p. 965.

Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Winding-machine. No. 1,380,105; May 31; v. 286; p. 965.

Hulbert, Judd W., Aberdeen, Md. Railway-crosstie. No. 1,376,769; May 3; v. 286; p. 73.

Hulett, George H., Cleveland, Ohio. Trimming mechanism. No. 1,377,686; May 10; v. 286; p. 305.

Hultman, Ivar, Saltsjöbaden, near Stockholm, Sweden. Chuck. No. 1,379,966; May 31; v. 286; p. 943.

Human, Samuel H., Chicago, Ill. Fluid-compressor. No. 1,377,583; May 10; v. 286; p. 286.

Hunarian, Rafael A., San Francisco, Calif. Toy horse-mobile. No. 1,377,888; May 10; v. 286; p. 346.

Huneryager, George J., Chicago, Ill. Scraper. No. 1,377,484; May 10; v. 286; p. 268.

Hunker, Martin L., Wheeling, W. Va., assignor to Whitaker-Glessner Company. Producing eaves-troughs. No. 1,377,251; May 10; v. 286; p. 223.

Hunker, Martin L., Wheeling, W. Va., assignor to Whitaker-Glessner Company. Eaves-trough-forming machine. No. 1,377,252; May 10; v. 286; p. 223.

Hunt-Crawford Co., The. (See Hunt, Robert T., assignor.)

Hunt, Ludovic E., Springfield, Mo. Engine-indicator. No. 1,376,883; May 3; v. 286; p. 96.

Hunt, Robert T., assignor to the Hunt-Crawford Co., Coshocton, Ohio. Ice-cream container. No. 1,376,770; May 3; v. 286; p. 73.

Hunter, Frank W., Kinzua, Pa. Shut-off for gas-wells. No. 1,377,966; May 10; v. 286; p. 361.

Hunter, Richard B. (See Evans, C. T., and Hunter, assignors.)

Hurd, Earl, New York, N. Y. Process of and apparatus for producing moving-picture films. No. 1,380,298; May 31; v. 286; p. 1001.

Hurley, John F., Denver, Colo. Wax-finish remover. No. 1,380,299; May 31; v. 286; p. 1002.

Huston, Dwight W., Springfield, Ohio. Display-sign. No. 1,377,889; May 10; v. 286; p. 346.

Hutchings, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-plate holder. No. 1,380,209; May 31; v. 286; p. 985.

Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)

Hutchinson, Ely C., Oakland, and E. W. Anderson, assignors to Pelton Water Wheel Company, San Francisco, Calif. Spiral casing. No. 1,380,065; May 31; v. 286; p. 958.

Hutchinson, George, Fall River, Mass. Spool for winding warps and other purposes. No. 1,378,412; May 17; v. 286; p. 497.

Hutchinson, Job, Brooklyn, N. Y. Four-cycle internal-combustion engine. No. 1,378,352; May 17; v. 286; p. 485.

Huther Bros. Saw Mfg. Co. (See Huther, Warren B., assignor.)

Huther, Warren B., assignor to Huther Bros. Saw Mfg. Co., Rochester, N. Y. Inserted-tooth cutter-head and making the same. No. 1,376,438; May 3; v. 286; p. 12.

Hutsell Motor Company, The. (See Hutsell, Thomas A., assignor.)

Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Piston construction. No. 1,378,353; May 17; v. 286; p. 485.

Huyett, Daniel D., and A. L. Register, assignors to Vacuum Refrigeration Company, Philadelphia, Pa. System of control for intermittent-absorption refrigerating plants. No. 1,376,884; May 3; v. 286; p. 96.

Hyatt, George H., *et al.* (See Godbey, Walter H., Jr., assignor.)

Hyder, Henry H., Hollywood, Calif. Wireless apparatus. No. 1,379,589; May 24; v. 286; p. 793.

Hydraulic Pressed Steel Company. (See Davidson, Harry O., assignor.)

Hydraulic Pressed Steel Company, The. (See Foster, Emory M., assignor.)

Hydraulic Pressed Steel Company. (See Foster, Henry J., assignor.)

Hydraulic Pressed Steel Company, The. (See Foster, Henry J., assignor.)

Hydronyl Syndicate. (See Linder, S. E., and Lessing, assignors.)

Iacobitti, Giuseppe, Crockett, Calif. Lump-sugar-packing machine. No. 1,377,775; May 10; v. 286; p. 323.

Ideal Electric & Manufacturing Co., The. (See Schou, T., and Behrens, assignors.)

Ideal Electric & Manufacturing Co., The. (See Schou, Theodor, assignor.)

Illinois Tool Works. (See Olson, Carl G., assignor.)

Imhoff, John H., assignor, by mesne assignments, to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift and ignition lock. No. 1,378,033; May 17; v. 286; p. 425.

Imperial Underwear Company, The. (See Campbell, Clinton A., assignor.)

Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Typographic machine. No. 1,378,413; May 17; v. 286; p. 497.

Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Strip-perforator. No. 1,378,414; May 17; v. 286; p. 497.

Independent Stove Company. (See Robinson, William V., assignor.)

Industrial Electric Furnace Company. (See Snyder, Frederick T., assignor.)

Industrial Research Corporation. (See Green, C. F., and Lindsey, assignors.)

Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)

Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)

Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)

Ingersoll-Rand Company. (See Hart, Thomas J., assignor.)

Ingersoll-Rand Company. (See Peters, Arthur E., assignor.)

Ingersoll-Rand Company. (See Smith, William H., assignor.)

Ingersoll-Rand Company. (See Stage, Harold I., assignor.)

Ingersoll-Rand Company. (See Tuttle, Grover G., assignor.)

International Art Publishing Company. (See Bennett, Beatrice M., assignor.)

International Cork Company. (See Marsa, Melchor, assignor.)

International Harvester Company. (See Arnold, Douglass L., assignor.)

International Harvester Company. (See Ford, Ralph L., assignor.)

International Mailing Tube and Wrapper Company. (See Greve, Herman L., assignor.)

International Motor Company. (See Frins, Maximilian C., assignor.)

International Motor Company. (See Lucand, Alexander, assignor.)

International Patent Investment Company, The. (See Brown, George F., assignor.)

International Precipitation Company. (See Moon, Freeman S., assignor.)

International Surgical Instruments Company. (See Soresi, Angelo L., assignor.)

International Time Recording Company of New York, The. (See Bryce, James W., assignor.)

"Invenit," G. m. b. H. (See Fritz, Robert C., assignor.)

Invincible Metal Office Furniture Company. (See Wege, Peter M., assignor.)

Irwin, George H. (See Jensen, C. C., and Irwin.)

Irwin, Herbert G., Floydada, Tex. Insecticide-holder. No. 1,377,077; May 3; v. 286; p. 133.

Isaacs, Albert, New York, N. Y., assignor to Beck Duplicator Company. Spindle for duplicating-machines and the like. No. 1,377,584; May 10; v. 286; p. 286.

Ische, Albert. (See Ische, Arnold and A.)

Ische, Arnold, Norwood, and A. Ische, Hamburg, Minn. Nest-box for hens. No. 1,379,628; May 31; v. 286; p. 876.

Isensee, Otto K., Chino, Calif. Erasing and polishing device. No. 1,379,922; May 31; v. 286; p. 930.

Israel, Isaac, assignor of one-half to Success Cone Co., Inc., New York, N. Y. Pastry-shaping device. No. 1,379,987; May 31; v. 286; p. 943.

Ives, Edward L., Chicago, Ill. Means for protecting blast-furnace parts. No. 1,376,440; May 3; v. 286; p. 12.

Ives, Edward L., assignor to Freyn and Company, Chicago, Ill. Blast-furnace-charging bell. No. 1,376,439; May 3; v. 286; p. 12.

Ives, Frederic E., Philadelphia, Pa. Color photograph or film and producing same. No. 1,376,940; May 3; v. 286; p. 107.

Ives, Harry C., assignor to The Ives Manufacturing Corporation, Bridgeport, Conn. Toy-railway-train stop. No. 1,379,988; May 31; v. 286; p. 943.

Ives Manufacturing Corporation, The. (See Ives, Harry C., assignor.)

Ivory, James W., Philadelphia, Pa. Nut lock or fastener. No. 1,376,624; May 3; v. 286; p. 46.

J & B Manufacturing Company. (See Jacobson, Edward B., assignor.)

Jackson, Charles H., *et al.* (See Willis, Frank H., assignor.)

Jackson, Corwill, Kalamazoo, Mich. Pneumatic drill. No. 1,376,545; May 3; v. 286; p. 31.

Jackson Cushion Spring Company, The. (See Van Hove, Desire H., assignor.)

Jackson, Dean S., Albany, N. Y. Funnel. No. 1,379,569; May 24; v. 286; p. 790.

Jackson, George E., Brooklyn, N. Y., assignor of forty-nine one-hundredths to W. B. Eveans, Montclair, N. J. Cigarette-former. No. 1,379,344; May 24; v. 286; p. 748.

Jackson, Mark. (See West, F. J., Jackson, and Leader.)

Jackson, Maude, *et al.* (See Traphagan, Frank M., assignor.)

Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)

Jacobs, John. (See Kondolf, Mathias R., assignor.)

Jacobsen, Charles H., and C. Breer, Detroit, Mich. Power-transmitting joint. No. 1,378,118; May 17; v. 286; p. 442.

Jacobsen, Emil, New York, N. Y., assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,376,814; May 3; v. 286; p. 82.

Jacobson, Edward B., assignor to J & B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,379,629; May 31; v. 286; p. 876.

Jacobson, Edward B., assignor to J & B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,379,821; May 31; v. 286; p. 911.

Jacobson, Leo, Chicago, Ill., assignor to G. B. Cooper, Cleveland, Ohio. Apparatus for vulcanizing vehicle-tires. No. 1,377,133; May 3; v. 286; p. 143.

Jager, Frank, Chicago, Ill. Car-ladder. No. 1,376,696; May 3; v. 286; p. 59.

Jager, Frank, Chicago, Ill. Car-door. No. 1,376,697; May 3; v. 286; p. 59.

Jahn, August, Omak, Wash. Grasshopper-catcher. No. 1,378,235; May 17; v. 286; p. 463.

Jahnke, Charles B., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Oil-burning torch. No. 1,377,687; May 10; v. 286; p. 305.

James, Amos H., St. Louis, Mo. Trousers-supporting device. No. 1,380,210; May 31; v. 286; p. 985.

James, Charles W., Jr., administrator. (See Phelps, James C.)

James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,379,691; May 31; v. 286; p. 887.

James Manufacturing Company. (See Shodron, John G., assignor.)

Janicki, John, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for covering cores. No. 1,378,961; May 24; v. 286; p. 675.

Jankievich, Michael, Elmhurst, N. Y. Ground-leveling machine. No. 1,380,106; May 31; v. 286; p. 965.

Janney, William E., Toronto, Ontario, Canada, H. E. Fiscel and J. L. Miller, Pittsburgh, assignors of one-fourth to G. M. Lemmon, Pittsburgh, Pa. Plumbing apparatus. No. 1,377,776; May 10; v. 286; p. 324.

Janzen, Henry C., Jansen, Nebr. Automatic antiskid-chain placer and remover. No. 1,376,771; May 3; v. 286; p. 74.

Jay, William N., Cleveland, Ohio. Lawn-swing. No. 1,376,698; May 3; v. 286; p. 60.

Jayne, John H. (See Miller, H. E., and Jayne.)

Jeep, Louis C., Sioux City, Iowa. Tag-hook. No. 1,376,546; May 3; v. 286; p. 31.

Jefferies, Ebenezer A. W., assignor to Jefferies-Norton Corporation, Worcester, Mass. Refrigerating apparatus. No. 1,379,102; May 24; v. 286; p. 702.

Jefferies-Norton Corporation. (See Jefferies, Ebenezer A. W., assignor.)

Jefferson, Benjamin H., assignor to Lyon & Healy, Chicago, Ill. Pedal device. No. 1,379,570; May 24; v. 286; p. 790.

Jeffrey Manufacturing Company, The. (See Holmes, Morris P., assignor.)

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jeffrey, Max L. (See Fies, Herbert W., assignor.)

Jellinek, Charles, and D. Stern, New York, N. Y. Chair. No. 1,379,263; May 24; v. 286; p. 732.

Jelley, Henry. (See Jelley, James and H.)

Jelley, James, Coventry, and H. Jelley, Birmingham, England. Top of cycle and similar saddles. No. 1,376,547; May 3; v. 286; p. 32.

Jenkins, Charles F., Washington, D. C., assignor to The Graphoscope Company, New York, N. Y. Motion-picture apparatus. No. 1,378,462; May 17; v. 286; p. 506.

Jenkins, Henry C., and H. Woolner, London, England. Manufacture of permanganates. No. 1,377,485; May 10; v. 286; p. 268.

Jenkins, William L., Niles, Ohio. Device for rolling sheet metal with grooved bars. No. 1,376,699; May 3; v. 286; p. 60.

Jenkins, Wilton F., Richmond, Va. Automobile-lock. No. 1,376,885; May 3; v. 286; p. 97.

Jenks, Ransaeller J., Lewiston, Idaho. Automatic pressure-governor. No. 1,377,078; May 3; v. 286; p. 133.

Jennings, Jarvis S., Jr., Detroit, Mich. Method of and means for governing explosive-engines. No. 1,379,186; May 24; v. 286; p. 717.

Jensen-Bearlundd, Hans P., Lisbon, Portugal. Variable-pitch propeller. No. 1,380,305; May 31; v. 286; p. 1002.

Jensen-Bearlundd, Hans P., Lisbon, Portugal. Automatic clutch. No. 1,380,306 May 31; v. 286; p. 1002.

Jensen, Carl C., and G. H. Irwin, assignors to Standard Fender Co., Chicago, Ill. Automobile-fender. No. 1,379,822; May 31; v. 286; p. 911.

Jensen, Carl E., Chicago, Ill. Mechanical toy. No. 1,379,103; May 24; v. 286; p. 702.

Jergens, Andrew, Company. (See Liddle, Leonard M., assignor.)

Jerome, Joseph. (See Eberhardt, George O., assignor.)

Jessen, James, Minneapolis, Minn. Ignition mechanism for combustion-engines. No. 1,377,688; May 10; v. 286; p. 306.

Johanson, Per F., Trail, Oreg. Fruit-thinning implement. No. 1,378,791; May 17; v. 286; p. 570.

Johanson, Pehr, and E. A. Francke, assignors to Norton Company, Worcester, Mass. Shaping device for articles made of ceramic bonded material. No. 1,376,773; May 3; v. 286; p. 74.

Johanson, Reiert, Odda, Hardanger, Norway. Hydraulic transformer. No. 1,377,585; May 10; v. 286; p. 286.

Johantgen, Oliver D., assignor to Victor Adding Machine Co., Chicago, Ill. Rack-bar and bearing for calculating-machines and the like. No. 1,378,119; May 17; v. 286; p. 442.

Johns, Luther, Oak Park, Ill. Child's convertible vehicle. No. 1,379,305; May 24; v. 286; p. 740.

Johns-Manville. (See Hoffman, William A., assignor.)

Johns, Robert A., and F. L. Myers, Mobile, Ala. Combined dispensing and refrigerating apparatus. No. 1,378,792; May 17; v. 286; p. 571.

Johnson, Alvin E., St. Francis, Kans. Tractor-hitch. No. 1,378,793; May 17; v. 286; p. 571.

Johnson, Arthur B., Las Animas, Colo. Rotary engine. No. 1,378,415; May 17; v. 286; p. 498.

Johnson, Augusta S., Philadelphia, Pa. Foldable umbrella. No. 1,378,354; May 17; v. 286; p. 485.

Johnson Automobile Lock Co. (See Imhoff, John H., assignor.)

Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)

Johnson, Benjamin F., Cleveland, Ohio. Pipe. No. 1,376,548; May 3; v. 286; p. 32.

Johnson, Bror A. E. (See Ekström, G. C., Johnson, and Orström.)

Johnson, Burton L., Knoxville, Tenn. Display-cabinet. No. 1,379,867; May 31; v. 286; p. 920.

Johnson, Charles A. (See Svendsen, C. L. E., and Johnson.)

Johnson, Charles G., assignor of one-half to N. L. Larsen, Sault Ste. Marie, Mich. Life-saving buoy. No. 1,377,486; May 10; v. 286; p. 269.

Johnson, Charley, Seattle, Wash., assignor of one-half to C. W. Parker, Leavenworth, Kans. Amusement device. No. 1,376,886; May 3; v. 286; p. 97.

Johnson, Chester F., Detroit, Mich. Carbureter. No. 1,378,867; May 24; v. 286; p. 657.

Johnson, Chester F., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,377,352; May 10; v. 286; p. 243.

Johnson, Clarence V., Yates Center, Kans. Automobile-windshield attachment. No. 1,376,887; May 3; v. 286; p. 97.

Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. (Reissue.) No. 15,105; May 17; v. 286; p. 578.

Johnson, Edward E., St. Paul, Minn. Railway water-column. No. 1,378,236; May 17; v. 286; p. 464.

Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company. Talking-machine. No. 1,379,345; May 24; v. 286; p. 748.

Johnson, Frank, Aurora, Ill. Pump. No. 1,378,543; May 17; v. 286; p. 522.

Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,378,868; May 24; v. 286; p. 657.

Johnson, George T., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Truck side frame. No. 1,378,794; May 17; v. 286; p. 571.

Johnson, Henry V., St. Paul, Minn. Safety device for drills. No. 1,377,487; May 10; v. 286; p. 269.

Johnson, James J., Chicago, Ill. Combined lamp-holder and reflector. No. 1,376,941; May 3; v. 286; p. 107.

Johnson, Micajah M. (See Webb, John L., assignor.)

Johnson, Orlando B., French, assignor of one-half to R. M. McCracken, Boise, Idaho. Cow-tail holder. No. 1,380,211; May 31; v. 286; p. 985.

Johnson, Orvey, assignor to The Johnson Specialty Company, Madison, Wis. Piston-ring expander and contractor. No. 1,379,021; May 24; v. 286; p. 687.

Johnson, Peter H., and P. A. Kosecki, Kenosha, Wis. Sash-fastener. No. 1,379,823; May 31; v. 286; p. 912.

Johnson-Randall Co. (See Duquette, William, assignor.)

Johnson, Robert C., Leicester, England. Teapot, coffee-pot, and like vessel. No. 1,380,066; May 31; v. 286; p. 958.

Johnson, Rosamond L., Port Orchard, Wash. Vehicle signaling-crane. No. 1,377,488; May 10; v. 286; p. 269.

Johnson Specialty Company, The. (See Johnson, Orvey, assignor.)

Johnson, Stuart P., Washington, D. C. Recoil mechanism. No. 1,379,989; May 31; v. 286; p. 943.

Johnson, Ulysses E. G., Pittsfield, Mass. Valve-remover. No. 1,378,463; May 17; v. 286; p. 507.

Johnson, Walter H., Boston, assignor to C. I. Campbell, Quincy, Mass. Signaling device. No. 1,378,237; May 17; v. 286; p. 464.

Johnston, Andrew L., jr., Richmond, Va., assignor to P. R. Moses, New York, N. Y. Antiskid tire-chain. No. 1,378,821; May 17; v. 286; p. 576.

Johnston, Frank E. (See Miller, L. P., and Johnston.)
Johnston, Genevieve. (See Johnston, Horace G., assignor.)
Johnston, Gertrude A., Chicago, Ill. Safety appliance for high chairs. No. 1,376,625; May 3; v. 286; p. 47.
Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Guide for drive-chains. No. 1,378,795; May 17; v. 286; p. 571.
Johnston, R. D., Jr. (See Legg, Andrew C., assignor.)
Johnston, William G., assignor to T. O'Leary, Philadelphia, Pa. Explosive-engine. No. 1,376,700; May 3; v. 286; p. 60.
Jolly, Benjamin R., deceased, Raleigh, N. C., The Raleigh Savings Bank and Trust Company, executor. Insect-catcher. No. 1,377,201; May 10; v. 286; p. 212.
Jones, Alaska O., Kokomo, Ind. Rotary harrow. No. 1,377,586; May 10; v. 286; p. 286.
Jones, Benjamin H., assignor to Smith & Davis Manufacturing Company, St. Louis, Mo. Bedstead. No. 1,376,626; May 3; v. 286; p. 4.
Jones, Harry, Suffern, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Railway-tie. No. 1,376,549; May 3; v. 286; p. 32.
Jones, Homer W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Terminal connection. No. 1,376,627; May 3; v. 286; p. 47.
Jones, Hugh S., New York Mills, and A. P. Cullinan, assignors to Utica Knitting Company, Utica, N. Y. Stop-motion device. No. 1,377,587; May 10; v. 286; p. 286.
Jones, Isaiah. (See Jones, Lawrence and I.)
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Wrapped article. No. 1,377,156; May 3; v. 286; p. 148.
Jones, John T., assignor to T. J. Howells, Pittsburgh, Pa. Producing ferrosilicon. No. 1,379,022; May 24; v. 286; p. 687.
Jones, John T., assignor to T. J. Howells, Pittsburgh, Pa. Metallurgical process. No. 1,379,023; May 24; v. 286; p. 687.
Jones, John T., assignor to T. J. Howells, Pittsburgh, Pa. Reducing iron from the ore. No. 1,379,024; May 24; v. 286; p. 687.
Jones, Lawrence and I., Granger, Utah. Valve. No. 1,379,025; May 24; v. 286; p. 687.
Jones, Louis W., Cleveland, Ohio. Pipe-bending device. No. 1,378,796; May 17; v. 286; p. 571.
Jones, Myron G., Mauricetown, N. J. Culling-table for oysters. No. 1,377,689; May 10; v. 286; p. 306.
Jones, Oscar T., Silver City, Miss. Stalk puller and grinder. No. 1,379,571; May 24; v. 286; p. 790.
Jordan, Andrew P., Winters, Tex. Maize-header. No. 1,378,679; May 17; v. 286; p. 549.
Jordan, Harry H. (See Charlton, Robert W., assignor.)
Jordan, O. F., Company. (See Bressler, Robert E., assignor.)
Jorgensen, Bernhardt, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,379,923; May 31; v. 286; p. 930.
Jorgensen, Bernhardt, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,379,924; May 31; v. 286; p. 931.
Jorgensen, Ray. (See Smith, A. A., and Jorgensen.)
Jorgenson, George, Fargo, N. D. Ash-pan heater for locomotives. No. 1,379,572; May 24; v. 286; p. 790.
Jost, Heinrich, assignor to E. Rutishauser, Kreuzlingen, Switzerland. Templet. No. 1,379,630; May 31; v. 286; p. 876.
Joy, Vernon A., New York, N. Y. Device for displaying the covering of boxes and other containers. No. 1,380,148; May 31; v. 286; p. 973.
Judd, Charles T., Somerville, assignor to J. Duncan Company, Everett, Mass. Overhead tramway-switch. No. 1,377,134; May 3; v. 286; p. 143.
Juelfs, Albert, McPherson, Kans. Wrecking-bar. No. 1,377,014; May 3; v. 286; p. 121.
Julian, Hubert, Montreal, Quebec, Canada. Airplane safety appliance. No. 1,379,264; May 24; v. 286; p. 732.
Julien, Charles, Jersey City, N. J. Rigging for sailing vessel. No. 1,379,573; May 24; v. 286; p. 790.
Jungbluth, Carl J. (See Hammer, Knott, and Jungbluth.)
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,378,464; May 17; v. 286; p. 507.
Jurgielewicz, Leopold, Los Angeles, Calif. Safety-watch-pocket protector. No. 1,380,212; May 13; v. 286; p. 985.
Juroka, John, Cleveland, Ohio. Railway-track construction. No. 1,377,489; May 10; v. 286; p. 269.
Kabacij, George, and A. Bartus, Wyatt, W. Va. Antislipping device. No. 1,378,962; May 24; v. 286; p. 675.
Kaelin, Frederick T. (See Matheson, H. W., and Kaelin.)
Kahl, John M., Heaton, N. D. Automatic-release clevis. No. 1,379,574; May 24; v. 286; p. 791.
Kahl, Roger A., Wallingford, Conn. Collar-button. No. 1,378,238; May 17; v. 286; p. 464.
Kaiser, Ferdinand, St. Paul, Minn. Pencil. No. 1,378,174; May 17; v. 286; p. 452.
Kaiser, Otto. (See Gams, A., and Kaiser.)
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Circuit-breaker relay. No. 1,378,869; May 24; v. 286; p. 658.
Kalmanowitz, Jacob, Brooklyn, N. Y. Washing-machine. No. 1,376,815; May 3; v. 286; p. 83.
Kalmus, Comstock & Westcott. (See Comstock, Daniel F., assignor.)
Kalmus, Comstock & Wescott. (See Wescott, William B., assignor.)
Kalteyer, Frederick J., Philadelphia, Pa., assignor to Electrostrop Manufacturing Company. Governor. No. 1,379,265; May 24; v. 286; p. 732.
Kamenetzky, Ralph, Brooklyn, N. Y. Umbrella-handle. No. 1,380,213; May 31; v. 286; p. 985.
Kammritz, Arthur E., Hartford, Conn. Oil-can. No. 1,378,239; May 17; v. 286; p. 464.
Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Tube-bending machine. No. 1,376,441; May 3; v. 286; p. 12.
Kamrowski, Frank, Stevens Point, Wis. Windshield attachment. No. 1,379,104; May 24; v. 286; p. 702.
Kane, John J. (See Borchard, Robert W., assignor.)
Kansas City Elevator Manufacturing Company. (See Turner, Frederick E., assignor.)
Kapinos, Frank, and G. Chizek, Canby, Minn. Grain-shock loader. No. 1,378,240; May 17; v. 286; p. 464.
Kappel, Charles, Chicago, Ill. Ice-can. No. 1,380,149; May 31; v. 286; p. 974.
Karron, Louis. (See Meltzer, H., and Karron.)
Kaschewski, Frederick, Davenport, Iowa. Machine for cutting fabrics to predetermined lengths. No. 1,377,777; May 10; v. 286; p. 324.
Kass, Samuel M., Philadelphia, Pa. Trench-weapon. No. 1,376,888; May 3; v. 286; p. 97.
Kaufer Manufacturing Company. (See Kaufer, Theodore, assignor.)
Kaufer, Theodore, New York, N. Y. Adjustable garment-hanger. No. 1,377,837; May 10; v. 286; p. 336.
Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Adjustable garment-hanger. No. 1,377,836; May 10; v. 286; p. 336.
Kauffman, Edwin N., Mahaffey, Pa. Knee-pad. No. 1,378,870; May 24; v. 286; p. 658.
Kaufman, Alfonse, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company Incorporated. Apparatus for forming nitrogen compounds. No. 1,379,187; May 24; v. 286; p. 717.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle. No. 1,379,824; May 31; v. 286; p. 912.
Kausrud, Eric C. (See Hooker, E. R., and Kausrud.)
Kawasaki, Utakichi, San Francisco, Calif. Back-scrubbing device. No. 1,379,925; May 31; v. 286; p. 931.
Kaynee Company, The. (See Curtis, A. R., and Oathout, assignors.)
Kays, William J., Hutchinson, Kans., assignor to The Crawford, McGregor and Canby Co., Dayton, Ohio. Golf-club. No. 1,378,416; May 17; v. 286; p. 498.
Kayser, Mary L., Tyler, Tex. Ink-bottle. No. 1,377,588; May 10; v. 286; p. 287.
Kean, Elwood A., and B. L. Nicholson, Tacoma, Wash. Street-car enunciator. No. 1,378,465; May 17; v. 286; p. 507.
Kearney, James R. (See McDonald, Vernon M., assignor.)
Keckeis, José, Portland, Oreg. Game-board. No. 1,378,175; May 17; v. 286; p. 452.
Keckeis, José, Portland, Oreg. Educational appliance for arithmetic. No. 1,378,241; May 17; v. 286; p. 465.
Keel, Eangelia A. (See Keel, John C., assignor.)
Keel, John C., assignor of one-half to E. A. Keel, Rochester, N. Y. Dancing doll. No. 1,380,107; May 31; v. 286; p. 966.
Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical pyrometry. No. 1,379,188; May 24; v. 286; p. 718.
Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Compensation method and apparatus. No. 1,379,266; May 24; v. 286; p. 732.
Keeran, Charles R., Chicago, Ill. Front sight for guns. No. 1,380,150; May 31; v. 286; p. 974.
Keevers, Matthew J., Northampton, Mass. Fastening device. No. 1,377,253; May 10; v. 286; p. 223.
Keevers, Matthew J., Northampton, Mass. Buckle-holder. No. 1,377,254; May 10; v. 286; p. 223.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Detachable connecting device. No. 1,376,442; May 3; v. 263; p. 13.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Convertible vehicle-body. No. 1,379,825; May 31; v. 286; p. 912.
Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Securing device for removable pillars. No. 1,379,826; May 31; v. 286; p. 912.
Keiper, Henry B., deceased; L. R. Keiper, N. K. Long, and G. Hammond, executors, assignor to Champion Blower & Forge Company, Lancaster, Pa. Combination-tool. No. 1,377,202; May 10; v. 286; p. 213.
Keiper, Lucy R., *et al.*, executors. (See Keiper, Henry B.)
Keller, Albert A., Milwaukee, Wis. Portable windlass. No. 1,379,990; May 31; v. 286; p. 943.
Keller, Arnold B., *et al.*, trustees. (See Cameron, William W., assignor.)
Keller, Joseph F., New York, N. Y. Reproducing-machine for making aeroplane-propellers and the like. No. 1,379,267; May 24; v. 286; p. 733.
Keller, Otto. (See Williams, Harry S., assignor.)
Keller, Otto A., *et al.* (See Williams, Harry S., assignor.)

Kelley, Cott C., Worcester, Mass., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Furnace-eyesight. No. 1,376,550; May 3; v. 286; p. 32.
Kelley, Harriet E., Denver, Colo. Coat-hanger. No. 1,379,105; May 24; v. 286; p. 702.
Kelley, Margaret, Los Angeles, Calif., assignor, by mesne assignments, to Automatic Flatwork Folder Company. Machine for folding fabric articles. No. 1,376,942; May 3; v. 286; p. 107.
Kelley, Paul V., Everett, Wash. Folding table and lunch-case for automobiles. No. 1,378,355; May 17; v. 286; p. 486.
Kelley, Sabina. (See Bailey, J., and Kelley.)
Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,376,701; May 3; v. 286; p. 60.
Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,377,778; May 10; v. 286; p. 324.
Kellogg, Albert A., Kansas City, Mo. Aeroplane. No. 1,377,490; May 10; v. 286; p. 269.
Kellogg, M. W., Co., The. (See Pratt, William A., assignor.)
Kellogg, Miles M., Encinitas, Calif. Fountain paint-brush. No. 1,376,702; May 3; v. 286; p. 60.
Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
Kellogg, W. L. (See Alquist, S. P., and Barrows, assignors.)
Kells, Charles E., New Orleans, La. Water-distilling apparatus. No. 1,379,631; May 31; v. 286; p. 876.
Kelly, Bernard H. (See Law, John, assignor.)
Kelly, Joseph N., Dayton, Ohio. Steering-gear. No. 1,378,680; May 17; v. 286; p. 549.
Kelly, Joseph P., Bellington, W. Va. Journal-box. No. 1,380,214; May 31; v. 286; p. 985.
Kelly Springfield Tire Co. (See McClenathen, R., and Noall, assignors.)
Kelly-Springfield Tire Company. (See Walton, Charles L., assignor.)
Kelly, William J. (See Bedford, C. W., and Kelly.)
Kelsey, Jack M., Brea, Calif. Cable-guard for tackle-blocks. No. 1,379,868; May 31; v. 286; p. 920.
Kelso, William H., San Francisco, Calif. Gas-heater. No. 1,377,890; May 10; v. 286; p. 346.
Kemnal, James, Chislehurst, and J. Henry, London, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Soot-blowing device. No. 1,377,622; May 10; v. 286; p. 293.
Kemp, Richard. (See Seel, P. C., Combs, and Kemp.)
Kennedy, Charles W. (See Wright, H. A., and Kennedy.)
Kennedy, Otis M., Philadelphia, Pa., assignor to The Cunningham Piano Company. Player-piano. No. 1,379,926; May 31; v. 286; p. 931.
Kent, Burton M., Sayre, Pa., assignor of one-half to E. M. Ragan, Binghamton, N. Y. Locking device. (Reissue.) No. 15,110; May 24; v. 286; p. 796.
Kent-Norris, Henry, Newbury, England. Means for supplying liquid fuel to the cylinders of internal-combustion engines. No. 1,378,176; May 17; v. 286; p. 453.
Kern, Charles J., Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Toy aerial swing. No. 1,379,575; May 24; v. 286; p. 791.
Kern, Jacob S., Fleetwood, Pa. Windshield. No. 1,378,871; May 24; v. 286; p. 658.
Kerrick, Walter B., Los Angeles, Calif. Wheel. No. 1,377,353; May 10; v. 286; p. 243.
Kerrick, Walter B., Los Angeles, Calif. Wheel. No. 1,377,354; May 10; v. 286; p. 243.
Keyes, Frederick G., Cambridge, Mass., assignor to Cooper Hewitt Company. Manufacture of molybdenum-tungsten alloy. No. 1,377,982; May 10; v. 286; p. 364.
Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,377,589; May 10; v. 286; p. 287.
Keystone Watch Case Company. (See Freund, Joseph A., assignor.)
Kidney, Willis E., assignor to The Cleveland Electric Machine and Manufacturing Company, Cleveland, Ohio. Chopping-machine. No. 1,377,203; May 10; v. 286; p. 213.
Kidney, Willis E., assignor to The Cleveland Electric and Machine Mfg. Co., Cleveland, Ohio. Meat-slicing machine. No. 1,378,872; May 24; v. 286; p. 658.
Kik, Nicholas. (See Boomsliter, Charles C., assignor.)
Kilby Frog & Switch Company. (See Yolton, Robert E., assignor.)
Killen, Edward B., London, England. Landing carriage or frame for aircraft. No. 1,379,576; May 24; v. 286; p. 791.
Killen, Edward B., London, England. Wheel and wheel-fitment. No. 1,379,577; May 24; v. 286; p. 791.
Kimball, Wallace D., Chicago, Ill., assignor to Signode System Incorporated. Strap for box-fastenings or the like. No. 1,376,855; May 3; v. 286; p. 91.
Kimber, Walter E., London, England. Lifting-truck. No. 1,378,466; May 17; v. 286; p. 507.
Kimmel, Charles A., St. Louis, Mo. Container for talking-machine records. No. 1,376,703; May 3; v. 286; p. 61.
Kincaid, Robert L., Syracuse, N. Y. Washing-machine. No. 1,378,177; May 17; v. 286; p. 453.
King, Graham, South Orange, N. J. Camera. No. 1,379,189; May 24; v. 286; p. 718.
King, Joshua R. (See King, William O. and J. R.)
King, Michael, Flat River, Mo. Radiator. No. 1,376,943; May 3; v. 286; p. 107.
King, Michael, St. Louis, Mo. Collapsible crate. No. 1,378,797; May 17; v. 286; p. 572.
King, Robert, *et al.* (See Lickiss, Ernest E., assignor.)
King, Robert W., Toronto, Ontario, Canada. Furnace. No. 1,379,448; May 24; v. 286; p. 767.
King, Walter E., Houston, Tex. Hydraulic swivel. No. 1,379,190; May 24; v. 286; p. 718.
King, William O., Sidney, and J. R., New Haven, N. Y. Machine for spreading crushed stone and other material. No. 1,376,944; May 3; v. 286; p. 108.
Kings, Thomas W., Chicago, Ill. Carbureter. No. 1,379,346; May 24; v. 286; p. 748.
Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,378,544; May 17; v. 286; p. 523.
Kingsbury, Albert, Pittsburgh, Pa. Thrust-bearing. No. 1,378,545; May 17; v. 286; p. 523.
Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,378,546; May 17; v. 286; p. 523.
Kingsbury, Edward J., Keene, N. H. Automatic drilling-machine. No. 1,379,765; May 31; v. 286; p. 900.
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kinney, Benjamin L., Janesville, assignor of one-half to O. B. Cornish, Fort Atkinson, Wis. Machine for capping bottles. No. 1,377,779; May 10; v. 286; p. 324.
Kinzer, Alden. (See Kinzer, Douglas and A.)
Kinzer, Douglas and A., Ottawa, Ill. Attachment for stalk-cutters. No. 1,377,417; May 10; v. 286; p. 255.
Kirby, Frank, Flint, Mich. Tapping device for receptacles. No. 1,379,632; May 31; v. 286; p. 876.
Kirby, James B., Cleveland, Ohio. Lake or pond. No. 1,376,889; May 3; v. 286; p. 97.
Kirk, Edward S. (See Summers, J. H., and Kirk.)
Kirk, Frank P., St. Albans, Vt. Lock-nut. No. 1,378,681; May 17; v. 286; p. 549.
Kirkpatrick, Charles W., New York, N. Y. Money-receptacle. No. 1,378,682; May 17; v. 286; p. 550.
Kirsch, Otto. (See Schultz, O. R., and Kirsch.)
Kittoe, Philip F., Galena, Ill. Circuit-breaker. No. 1,380,216; May 31; v. 286; p. 986.
Klath, Ruth J., Adams, N. D. Hem-gage. No. 1,379,347; May 24; v. 286; p. 749.
Klauberg, Charles, New York, N. Y. Brush for cleaning bottles. No. 1,377,690; May 10; v. 286; p. 306.
Klaxon Company. (See McConnell, Duncan A., assignor.)
Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Oscillating ignition-magneto. No. 1,378,873; May 24; v. 286; p. 658.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lamp-socket. No. 1,378,467; May 17; v. 286; p. 507.
Klein, Louis, *et al.* (See Lamb, Homer M.)
Kleineck, Roy J., Oxford Junction, Iowa. Tire-chain. No. 1,380,215; May 31; v. 286; p. 986.
Kleist, John C. (See Fenske, Daniel, assignor.)
Klingbeil, Gottlieb L. E., Omaha, Nebr. Child's educational and amusement device. No. 1,378,874; May 24; v. 286; p. 659.
Kline, Fred J., New York, N. Y. Paper-fastener. No. 1,378,242; May 17; v. 286; p. 465.
Klinkhamer, Hendrik A. W., Hengelo, Netherlands. Resistance measurement. No. 1,378,547; May 17; v. 286; p. 523.
Klohn, Nicholas J., St. Paul, Minn. Signaling device for vehicles. No. 1,377,691; May 10; v. 286; p. 306.
Klopsteg, Paul E. (See Loomis, A. L., Klopsteg, Agnew, and Stannard.)
Klosinski, Stanislaw. (See Fwarogowski, A., and Klosinski.)
Kloss, Theophilus, Mankato, Minn. Cereal coffee. No. 1,377,838; May 10; v. 286; p. 336.
Klug Albert A., A. M. and E. S. Reynolds, Delton, Wis. Luggage-carrier. No. 1,377,997; May 10; v. 286; p. 366.
Knap, Thomas S., Brookline, Mass. Shaving-mirror. No. 1,379,991; May 31; v. 286; p. 943.
Knapp, David R. (See Golden, Thomas B., assignor.)
Knapp, George N., St. Louis, Mo. Automatic pipe-coupling. No. 1,378,468; May 17; v. 286; p. 505.
Knapp, William, Bayonne, N. J. Vehicle-mirror. No. 1,377,355; May 10; v. 286; p. 244.
Knappen Finance Company. (See Shoemaker, Alvin H., assignor.)
Knauss, Frank V., Portsmouth, Ohio. Combined gas and coal range. No. 1,380,151; May 31; v. 286; p. 974.
Kneass, Strickland L., assignor to William Sellers & Company, Inc., Philadelphia, Pa. Valve operating and locking mechanism. No. 1,379,927; May 31; v. 286; p. 931.
Knight, Eugene V., New Albany, Ind., Wooden beam. No. 1,377,891; May 10; v. 286; p. 346.
Knight, George B., Camden, N. J. Guard attachment for caps, hats, or other headgear. No. 1,376,816; May 3; v. 286; p. 83.
Knott, Harry H. (See Hammer, Knott, and Jungbluth.)
Knowles, Bernard A., Azalia, Mich. Teat-cup for milking-machines. No. 1,378,683; May 17; v. 286; p. 550.
Knowles, William H., Detroit, Mich. Internal-combustion engine. No. 1,379,348; May 24; v. 286; p. 749.
Knowlton, Cutler D., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making cutters. No. 1,376,551; May 3; v. 286; p. 32.
Knox, George F., assignor of one-half to L. G. Rohmrich, Milwaukee, Wis. Cooler. No. 1,377,692; May 10; v. 286; p. 306.

Knox, George F., Milwaukee, Wis., assignor to The Unit Ice Machine Co. Refrigerating-compressor. No. 1,377,693; May 10; v. 286; p. 307.

Knox, Samuel L., G. San Francisco, Calif. Engine. No. 1,378,875; May 24; v. 286; p. 659.

Kobert, Frank P., Amityville, N. Y. Electric heating apparatus. No. 1,378,684; May 17; v. 286; p. 550.

Koblos, John, Chicago, Ill. Portable book-holder. No. 1,379,766; May 31; v. 286; p. 900.

Koch, George T., and A. L. Stallkamp, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa. Chlorinating hydrocarbons. No. 1,380,067; May 31; v. 286; p. 958.

Koch, Henry W., San Francisco, Calif. Barrel-seal. No. 1,379,827; May 31; v. 286; p. 912.

Kocourek, Henry, Chicago, Ill. Securing device for detachable buttons. No. 1,376,817; May 3; v. 286; p. 83.

Koehler, Maxemilean E., Washington, D. C. Filtering-flue for gas-ranges. No. 1,377,694; May 10; v. 286; p. 307.

Koepp, Reinhart J., Cleveland, Ohio. Combustion-arrester for moving-picture machines. No. 1,379,449; May 24; v. 286; p. 767.

Kohl, Edmund E., Sheridan, Wyo. Animal-trap. No. 1,376,772; May 3; v. 286; p. 74.

Kohlruss, Jacob A assignor of one-half to Mrs. M. Frazer, Gillette, Wyo. Harvesting-machine. No. 1,377,204; May 10; v. 286; p. 213.

Koinzer, Paul, Mount Clemens, Mich. Vegetable-grater. No. 1,376,704; May 3; v. 286; p. 61.

Koken Barbers' Supply Company. (See Koken, W. F., and Anderson, assignors.)

Koken, Walter F., and G. G. Anderson, assignors to Koken Barbers' Supply Company, St. Louis, Mo. Power-operated hair-clipper. No. 1,379,450; May 24; v. 286; p. 767.

Komlosy, George, Yonkers, N. Y. Direction-indicator. No. 1,380,152; May 31; v. 286; p. 974.

Kondolf, Mathias R., Rochester, N. Y., assignor to J. Jacobs, Merion, Pa. Packing bottles. No. 1,378,356; May 17; v. 286; p. 486.

Konefes, Joseph H., Chicago, Ill. Bottle-crowning machine. No. 1,379,106; May 24; v. 286; p. 702.

Koppelman, Morris, Brooklyn, N. Y. Egg-packing. No. 1,378,685; May 17; v. 285; p. 550.

Koppelman, Morris, Brooklyn, assignor of one-half to L. Mann, New York, N. Y. Egg-packing. No. 1,378,469; May 17; v. 286; p. 508.

Kopperud, Anders H., Oakland, Calif. Grading apparatus. No. 1,379,633; May 31; v. 286; p. 877.

Korn, George J., Kirksville, Mo. Folding table. No. 1,378,178; May 17; v. 286; p. 453.

Kors, Charles H., Philadelphia, Pa. Container. No. 1,377,695; May 10; v. 286; p. 306.

Koseckl, Paul A. (See Johnson, P. H., and Koseckl.)

Kotchmann, Elgin O., *et al.* (See Williams, Harry S., assignor.)

Kotrba, George C., assignor of one-half to T. E. Weaver, Chicago, Ill. Wrench. No. 1,378,035; May 17; v. 286; p. 426.

Kottusch, Emil, Detroit, Mich. Piston. No. 1,376,705; May 3; v. 286; p. 61.

Kotun, Michael, New Geneva, Pa. Portable table and chair. No. 1,380,153; May 31; v. 286; p. 974.

Kracke, Louis S., Chicago, Ill. Window-cleaner. No. 1,378,243; May 17; v. 286; p. 465.

Kraft, Henry P. (See Schweinert, M. C., and Kraft.)

Kraft, Henry P., Brooklyn, N. Y., and M. C. Schweinert, West Hoboken, N. J. Valve. No. 1,377,590; May 10; v. 286; p. 287.

Krahn, Otto F., Loyal, Wis. Combined table and ironing-board. No. 1,379,451; May 24; v. 286; p. 767.

Krainik, Frederick. (See Krainik, John and F.)

Krainik, John and F., Paterson, N. J. Spindle for doubling and spinning. No. 1,379,634; May 31; v. 286; p. 877.

Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,379,767; May 31; v. 286; p. 901.

Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)

Kratochwill, Rudolph A., Bristol, Va. Brick-coal. No. 1,376,706; May 3; v. 286; p. 61.

Kraus, Herman. (See David, Ernest, assignor.)

Krause, Georg, Munich, Germany. Purification of gases. No. 1,377,205; May 10; v. 286; p. 213.

Krause, Norman R., assignor of one-fourth to W. F. Sawyer, Racine, Wis., and one-fourth to J. A. Walsh, Indianapolis, Ind. Spring-controller for vehicles. No. 1,379,992; May 31; v. 286; p. 944.

Krebs, George F., Wichita, Kans. Automobile signal device. No. 1,378,036; May 17; v. 286; p. 426.

Kress, John H., Louisville, Ky. Cutter. No. 1,376,552; May 3; v. 286; p. 32.

Kring, Olof O. (See Stålhane, O., and Kring.)

Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Adjustable pad-holding means. No. 1,376,945; May 3; v. 286; p. 108.

Križevičius, Kazimieras L., New Haven, Conn. Clothes-line-reel. No. 1,378,686; May 17; v. 286; p. 551.

Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,376,946; May 3; v. 286; p. 108.

Krogh, Carl A., *et al.*, executors. (See Krogh, Ferdinand W.)

Krogh, Ferdinand W., deceased, San Francisco, Calif.; C. A. Krogh and O. Poulsen, executors. Rod-coupling. No. 1,377,418; May 10; v. 286; p. 255.

Kroh, Henry A., Detroit, Mich. Shackle. No. 1,378,798; May 17; v. 286; p. 572.

Kronberg, Frank, Seattle, Wash. Nut-lock. No. 1,377,696; May 10; v. 286; p. 307.

Kroyer, John M., Stockton, Calif. Tractor. No. 1,379,107; May 24; v. 286; p. 703.

Krumscheid, Peter, Boston, Mass. Broom or brush. No. 1,378,037; May 17; v. 286; p. 426.

Kruse, Albert F., Chicago, Ill. Refrigerant-holding receptacle. No. 1,379,108; May 24; v. 286; p. 703.

Krycki, Michael, Sacramento, Calif. Washing-machine. No. 1,377,255; May 10; v. 286; p. 223.

Kucinski, Jan, Chicago, Ill. Child's vehicle. No. 1,379,993; May 31; v. 286; p. 944.

Kuhlemeier, Fred J., and R. J. Quelle; said Quelle assignor to said Kuhlemeier, Burlington, Iowa. Roaster. No. 1,377,591; May 10; v. 286; p. 287.

Kuhlemeier, Fred J., and F. Meyer; said Meyer assignor to said Kuhlemeier, Burlington, Iowa. Rotatable oven. No. 1,377,592; May 10; v. 286; p. 287.

Kuhns, George, Temple, Okla. Wrench. No. 1,378,687; May 17; v. 286; p. 551.

Kules, Leo, Mount Washington, Pa. Door-hanger. No. 1,377,135; May 3; v. 286; p. 144.

Kundtz, Theodor, Company, The. (See Kundtz, Theodor, assignor.)

Kundtz, Theodor, Lakewood, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Drophead-sewing-machine cabinet. No. 1,379,828; May 31; v. 286; p. 913.

Kuntz, Matthias F., Dayton, Ohio. Combination lock. No. 1,377,697; May 10; v. 286; p. 307.

Kunzer, John J., assignor to J. T. Ryerson & Son, Chicago, Ill. Making drills or the like. No. 1,379,994; May 31; v. 286; p. 944.

Kunzer, John J., assignor to J. T. Ryerson & Son, Chicago, Ill. Making drills or the like. No. 1,379,995; May 31; v. 286; p. 944.

Kuper, Henry G., Columbus, Nebr. Device for truing crank-shafts of engines. No. 1,378,799; May 17; v. 286; p. 572.

Kurk, Frederick W., assignor to Wilson & Company, Chicago, Ill. Curing meat. No. 1,380,068; May 31; v. 286; p. 957.

Kurk, Frederick W., assignor to Wilson & Company, Chicago, Ill. Curing meat. No. 1,380,069; May 31; v. 286; p. 959.

Kurk, Frederick W., assignor to Wilson & Company, Chicago, Ill. Curing meat. No. 1,380,070; May 31; v. 286; p. 959.

Kurtz, Cyrus B., Lakewood, Ohio. Transmission mechanism. No. 1,378,470; May 17; v. 286; p. 508.

Kutner, Solomon, assignor, by mesne assignments, to Rapid Roller Co., Chicago, Ill. Manufacturing printers' rollers. No. 1,379,109; May 24; v. 286; p. 703.

Kuttroff Pickhardt & Co. (See Lendle, August, assignor.)

Ky. Switch & Signal Co. (See Scoggan, Richard R., assignor.)

L. D. Caulk Co., The. (See Taylor, Daniel E., assignor.)

Labarthe, Jules, San Francisco, Calif. Furnace charging and smelting. No. 1,376,947; May 3; v. 286; p. 108.

La Bour, Harry E., assignor to Chemical Equipment Company, Chicago, Ill. Pumping system. No. 1,377,256; May 10; v. 286; p. 223.

Laburda, Walter, Conlton, Okla. Animal-trap. No. 1,380,108; May 31; v. 286; p. 966.

Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,876; May 24; v. 286; p. 659.

Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,380,217; May 31; v. 286; p. 986.

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Tubular-spoke wheel. No. 1,378,038; May 17; v. 286; p. 426.

Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,039; May 17; v. 286; p. 426.

Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,877; May 24; v. 286; p. 659.

Lachman Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa Metal wheel. No. 1,380,218; May 31; v. 286; p. 986.

Lachman Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,380,219; May 31; v. 286; p. 986.

Lackawanna Steel Company. (See Boardman, Charles S., assignor.)

La Croix, Edgar S., Duluth, Minn. Mixing-machine. No. 1,379,707; May 31; v. 286; p. 890.

Ladd, Alston C., Turlock, Calif. Shoestring-tip. No. 1,378,688; May 17; v. 286; p. 551.

La Fayette Motors Company. (See Menges, L. A., and Simpson, assignors.)

La Fehr, Francis E., E. M. Hitchcock, and H. V. Leahy, Los Angeles, Calif. Carbureter. No. 1,376,707; May 3; v. 286; p. 61.

Lafleur, Sinai, Foleyet, Ontario, assignor of one-third to J. E. Coron, Montreal, Quebec, Canada. Automatic train-stop. No. 1,378,800; May 17; v. 286; p. 572.

La Fontaine, George A., assignor of one-half to O. Steinen, Los Angeles, Calif. Hair-clipper. No. 1,376,628; May 3; v. 286; p. 47.

Lagus, Knut R. J., Åbo, Finland. Portable motor-saw for felling trees, cutting logs, and sawing wood. No. 1,378,963; May 24; v. 286; p. 675.

Laidman, Charles, Cleveland, Ohio. Table-mat. No. 1,378,471; May 17; v. 286; p. 508.

Laing, Clayton, Chicago, Ill. Blowpipe. No. 1,379,708; May 31; v. 286; p. 890.

Laing, William F., Cumberland, Md. Demountable rim. No. 1,377,079; May 3; v. 286; p. 134.

Lake, Clair D., Binghamton, N. Y., assignor to The Tabulating Machine Company. Printing-tabulator. No. 1,379,268; May 24; v. 286; p. 733.

Lake, Simon, Milford, Conn. Submarine salvaging and exploring apparatus. No. 1,379,928; May 31; v. 286; p. 931.

La Loie Artificielle de La Voulte. (See Auzenat, Louis G. R., assignor.)

Lamb, Charles C., Chicago, Ill. Egg-boiler. No. 1,377,983; May 10; v. 286; p. 364.

Lamb, Charles C., Chicago, Ill. Egg-boiler. No. 1,377,984; May 10; v. 286; p. 364.

Lamb, Frederick E., *et al.* (See Carpenter, Samuel D., assignor.)

Lamb, Homer M., West Frankfort, assignor of one-third to L. Klein and one-third to G. B. Greenbaum, Frankfort, Ill. Electric-cable tap. No. 1,378,801; May 17; v. 286; p. 572.

Lamb, Homer M., West Frankfort, assignor of one-third to L. Klein and one-third to G. B. Greenbaum, Frankfort, Ill. Sanitary clothes-locker. No. 1,378,802; May 17; v. 286; p. 573.

Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Thermal circuit-breaker. No. 1,377,257; May 10; v. 286; p. 224.

Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Interlock for swinging power-driven wringers. No. 1,378,472; May 17; v. 286; p. 508.

Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Meter. No. 1,377,985; May 10; v. 286; p. 364.

Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Yielding fastening for joints. No. 1,377,986; May 10; v. 286; p. 364.

Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Water-meter. No. 1,377,987; May 10; v. 286; p. 364.

Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Method of and apparatus for finishing water-meter disks. No. 1,377,988; May 10; v. 286; p. 365.

Lambeth, Edgar V., Hot Springs, Ark. Signal attachment for air-brake feed-valves. No. 1,380,220; May 31; v. 286; p. 987.

Lame, Frank C., New York, N. Y. Cooking utensil. No. 1,377,258; May 10; v. 286; p. 224.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck construction. No. 1,377,698; May 10; v. 286; p. 308.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-bolster arrangement. No. 1,377,699; May 10; v. 286; p. 308.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Side frame and journal-box. No. 1,377,700; May 10; v. 286; p. 308.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-side-frame arrangement. No. 1,377,701; May 10; v. 286; p. 308.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck. No. 1,377,702; May 10; v. 286; p. 308.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-truck arrangement. No. 1,377,703; May 10; v. 286; p. 309.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck. No. 1,377,704; May 10; v. 286; p. 309.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck for railway-cars. No. 1,377,705; May 10; v. 286; p. 309.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-bolster. No. 1,377,706; May 10; v. 286; p. 309.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck equalizing arrangement. No. 1,377,707; May 10; v. 286; p. 309.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Six-wheel equalizer-truck. No. 1,377,708; May 10; v. 286; p. 309.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-equalizing arrangement. No. 1,377,709; May 10; v. 286; p. 310.

Lampkin, Moses, St. Louis, Mo. Detachable heel. No. 1,379,452; May 24; v. 286; p. 767.

Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Impregnated material. No. 1,376,553; May 3; v. 286; p. 33.

Landers, Frary & Clark. (See Haines, Robert E., assignor.)

Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)

Landers, Frary & Clark. (See Twigg, Ernest, assignor.)

Landreth, Clarence P., Philadelphia, Pa. Method of and apparatus for treating liquid. No. 1,378,120; May 17; v. 286; p. 442.

Landwirtschaftliche Handelsgesellschaft M. B. H. (See Schmidt, Paul, assignor.)

Lane, Andrew T., assignor to The Pyorr-Laris Company, St. Louis, Mo. Composition of matter. No. 1,377,780; May 10; v. 286; p. 325.

Lane Brothers Company. (See Campbell, George J., assignor.)

Lane, Jacob, Anchorage, Alaska. Automobile-propelled boat. No. 1,377,892; May 10; v. 286; p. 347.

Lane Manufacturing Company. (See Harvey, Leaman S., assignor.)

Lane, William J., Denver, Colo. Steering-wheel lock. No. 1,378,244; May 17; v. 286; p. 465.

Lang, Charles R., Cathcart, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Steam-condensing and feed-water system for steamships. No. 1,377,080; May 3; v. 286; p. 134.

Lang, Frederick H., Columbus, Ohio. Means for extinguishing fires in vessels. No. 1,378,964; May 24; v. 286; p. 676.

Lang, Gustave J. (See Rosenthal, L. W., and Lang.)

Lang, James S., Boston, Mass. Shock-absorber. No. 1,379,191; May 24; v. 286; p. 718.

Lange, William F., Runge, Tex. Animal-trap. No. 1,376,554; May 3; v. 286; p. 33.

Langguth, Joseph O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vulcanized joint. No. 1,378,040; May 17; v. 286; p. 427.

Langhard, Johann K., assignor to Fredriksstad Elektrokemiske Fabriker A/S. Fredriksstad, Norway. Apparatus for the electrolysis of solutions of metal salts. No. 1,379,453; May 24; v. 286; p. 768.

Lannert, John A., Cleveland, Ohio. Ignition device. No. 1,377,419; May 10; v. 286; p. 255.

Lanston Monotype Machine Company. (See Chalfant, William E., assignor.)

Lanston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)

Lantieri, Frank and G., Newark, N. J. Hair-waving heater. No. 1,379,026; May 24; v. 286; p. 687.

Lantieri, Frank and G., Newark, N. J. Hair-waving tube. No. 1,379,027; May 24; v. 286; p. 688.

Lantieri, Gabriel. (See Lantieri, Frank and G.)

Lanz, Arthur, Youngstown, Ohio. Yielding coupling. No. 1,376,774; May 3; v. 286; p. 74.

Lapeer Tractor Truck Company. (See Winn, Sidney B., assignor.)

Lapointe, Francis J., Ann Arbor, Mich. Broaching-machine. No. 1,376,708; May 3; v. 286; p. 62.

Lapointe, Francis J., Ann Arbor, Mich. Spline-finishing broach. No. 1,376,709; May 3; v. 286; p. 62.

La Porte, Norbert M., Chicago, Ill., assignor to Sharp & Dohme, Baltimore, Md. Double salt of aluminum and potassium. No. 1,377,081; May 3; v. 286; p. 134.

Lareau, Leo N., Pawtucket, R. I., and O. J. Rainville, South Attleboro, Mass. Bowling-alley resurfacing device. No. 1,378,473; May 17; v. 286; p. 509.

Larkin Co. (See Horning, Charles G., assignor.)

Larkworthy, Frederick W., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Mechanism for steering tractors. No. 1,378,121; May 17; v. 286; p. 442.

La Rock, Richard (See Walker, Leonard, assignor.)

Larsen, Nils L. (See Johnson, Charles G., assignor.)

Larson, John A., Glendale, New York, N. Y. Oil-burner. No. 1,378,689; May 17; v. 286; p. 551.

Larson, John M., Chicago, Ill. Pressure-controlled diaphragm device. No. 1,379,709; May 31; v. 286; p. 890.

Larson, John M., assignor to National Regulator Company, Chicago, Ill. High-pressure standard regulator. No. 1,376,948; May 3; v. 286; p. 109.

Larson, John O., Litchfield, Minn. Attachment for extension-tables. No. 1,378,878; May 24; v. 286; p. 659.

Larson, Julius N., Dexter, Mich. Log-peeler. No. 1,379,768; May 31; v. 286; p. 901.

La Sor, Herbert G., Los Angeles, Calif. Inking-roll truck. No. 1,380,221; May 31; v. 286; p. 987.

Larsson, Thure, assignor to Norton Company, Worcester, Mass. Wheel-trimming machine. No. 1,377,991; May 10; v. 286; p. 365.

Larter & Sons. (See Larter, Warren R., assignor.)

Larter, Warren R., assignor to Larter & Sons, Newark, N. J. Separable cuff-button. No. 1,379,192; May 24; v. 286; p. 719.

Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Total-taking means for accounting-machines. No. 1,376,555; May 3; v. 286; p. 33.

Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Electrically-controlled sorting-machines. No. 1,376,556; May 3; v. 286; p. 33.

Latham, Frank W., Alexandria, Va. Pipe-stopper. No. 1,377,840; May 10; v. 286; p. 336.

Lathrop, Harry D. (See Clifford, John J., assignor.)
Lathrop, Harry D., Chicago, Ill. Can-washing machine. No. 1,378,245; May 17; v. 286; p. 460.
Lau, Richard. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Lauffet, Charles, Paris, France. Apparatus for hammering piston-rings. No. 1,377,967; May 10; v. 286; p. 361.
Lauren, John W., Dixon, Ill. Wire-drawing machine. No. 1,377,206; May 10; v. 286; p. 213.
Laval, Louis, Kansas City, Mo. Game. No. 1,380,154; May 31; v. 286; p. 975.
Lavalle, Cyril, Webster, Mass. Shuttle-box for looms. No. 1,376,949; May 3; v. 286; p. 109.
Lavallee, Joseph O. W., assignor to Caron Brothers, Montreal, Quebec, Canada. Internal-combustion engine. No. 1,377,356; May 10; v. 286; p. 244.
Law, John, assignor to B. H. Kelly, Portland, Oreg. Direction-signal for automobiles. No. 1,376,710; May 3; v. 286; p. 62.
Law, Thomas B. (See Belknap, William H., assignor.)
Law, William E., assignor of one-half to W. D. Gash, Philadelphia, and one-half to G. M. Stull, Chester, Pa. Draft appliance for tractors. No. 1,377,839; May 10; v. 286; p. 336.
Lawlor, Simeon C., Chicago, Ill. Mop-wringer. No. 1,378,879; May 24; v. 286; p. 660.
Lawrence, Edward E., Jamaica, and K. D. Loose, New York, assignors to Loose-Wiles Biscuit Company, New York, N. Y. Pneumatic mechanism for conveying and stacking food products. No. 1,377,136; May 3; v. 286; p. 144.
Lawrence, Walter F., assignor to Raymond Bag Company, Middletown, Ohio. Shopping-bag. No. 1,379,829; May 31; v. 286; p. 913.
Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-nail-reclaiming machine. No. 1,376,557; May 3; v. 286; p. 33.
Layman, Hebron B., assignor to the Layman Pressed Rod Company, Inc., New York, N. Y. Making connecting-rods. No. 1,378,690; May 17; v. 286; p. 551.
Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)
Lazear, Leroy C., Chicago, Ill. Steering-wheel. No. 1,377,420; May 10; v. 286; p. 256.
Leader, Harold T. (See West, F. J., Jackson, and Leader.)
Leahy, Herbert V. (See La Febr, F. E., Hitchcock, and Leahy.)
Leake, Richard C., assignor to General Railway Signal Company, Rochester, N. Y. Protective device. No. 1,380,300; May 31; v. 286; p. 1002.
Leakproof Radiator Co. (See Bark, Otto, assignor.)
Leaver, James M., Jr., Oakland, Calif. Automatic bundling and tying machine. (Reissue.) No. 15,111; May 24; v. 286; p. 797.
Le Blanc, Alexis, assignor to The Composite Metal Lath Company, New York, N. Y. Weaving mechanism. No. 1,379,193; May 24; v. 286; p. 719.
Le Blanc, Alexis, assignor to Composite Metal Lath Company, New York, N. Y. Loom. No. 1,379,194; May 24; v. 286; p. 719.
Leblanc, Thomas, West Gardner, Mass. Hub-cap. No. 1,378,691; May 17; v. 286; p. 551.
Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Guard for electric heaters. No. 1,377,492; May 10; v. 286; p. 270.
Leduc, Joseph E., Montreal, Quebec, Canada. Sanitary mask. No. 1,377,710; May 10; v. 286; p. 310.
Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Convertible trailer. No. 1,376,443; May 3; v. 263; p. 13.
Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Monorail railway. No. 1,376,444; May 3; v. 286; p. 13.
Lee, Charles G. (See Wilson, C. H., and Lee.)
Lee, Gerhard M., Aurora, Ill. Wrench. No. 1,377,893; May 10; v. 286; p. 347.
Lee, Henry A., Montevideo, Minn. Sheathing vise. No. 1,377,207; May 10; v. 286; p. 214.
Lee, Hoard, Shreveport, La. Self-serving store. No. 1,378,417; May 17; v. 286; p. 498.
Lee, Joseph W., Chicago, Ill., assignor, by mesne assignments, to American Road Plane, Incorporated, Wilmington, Del. Road-surfacing machine. No. 1,378,880; May 24; v. 286; p. 660.
Lee Loader & Body Company. (See Lee, Albert P., assignor.)
Leeds & Northrup Company. (See Bash, Francis E., assignor.)
Leeds & Northrup Company. (See Keeler, Earl A., assignor.)
Leeds & Northrup Company. (See Smith, Irving B., assignor.)
Leffel, Ancel B., Springfield, Ohio. Display-rack. No. 1,378,692; May 17; v. 286; p. 552.
Legg, Andrew C., assignor to R. D. Johnston, Jr., Birmingham, Ala. Cold-storage structure. No. 1,379,269; May 24; v. 286; p. 733.
Lehmann, Oscar, Salt Lake City, Utah. Road-vehicle signal. No. 1,379,996; May 31; v. 286; p. 944.
Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Master-pulsator for milling-machines. No. 1,378,881; May 24; v. 286; p. 660.
Le Marr, Moad H., Los Angeles, Calif. Safety-catch. No. 1,379,110; May 24; v. 286; p. 703.
Lemmon, George M. (See Janney, W. E., Fiscel, and Miller, assignors.)
Lendle, August, Forest Hills, assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y. Precipitating acid colors. No. 1,378,418; May 17; v. 286; p. 498.
Lenholt, John E., assignor of one-half to C. R. Tainter, Guilford, Conn. Coupling-fastener. No. 1,378,693; May 17; v. 286; p. 552.
Lensvelt, Cornelius J., Zurich, Switzerland. Meat-slicing machine. No. 1,379,410; May 24; v. 286; p. 760.
Lent, Alvah F., Newark, N. J. Cap-exploder. No. 1,377,894; May 10; v. 286; p. 347.
Lentz, George E. (See Newbold, W. C., and Lentz.)
Leonard, Don C., Greenville, S. C. Motor-drive for looms. No. 1,379,349; May 24; v. 286; p. 749.
Le Petit, Charles, Mombasa, British East Africa, assignor to Power Alcohol Limited, London, England. Fuel. No. 1,377,992; May 10; v. 286; p. 365.
Lepley, Daniel F., Connellsville, Pa. Mine-skip. No. 1,379,869; May 31; v. 286; p. 920.
Lepley, Daniel F., Connellsville, Pa. Gravity-car control for mine-hoists. No. 1,379,870; May 31; v. 286; p. 921.
Lessing, Rudolf. (See Linder, S. E., and Lessing.)
Letchford, Percy H., and G. H. Saltmarsh, Winnipeg, Manitoba, Canada. Headlight-dimmer. No. 1,377,711; May 10; v. 286; p. 310.
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Apparatus for wrapping up articles of parallelepiped form. No. 1,378,694; May 17; v. 286; p. 552.
Lev, Frank W., Astoria, N. Y., assignor, by mesne assignments, to L. S. Escobales. Blank or sheet feeding mechanism. No. 1,377,841; May 10; v. 286; p. 337.
Le Vesconte, Alfred T., Anona, Fla. Device for indicating the level of oil in engine crank-cases. No. 1,379,350; May 24; v. 286; p. 749.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,377,842; May 10; v. 286; p. 337.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rope-winding apparatus. No. 1,378,357; May 17; v. 286; p. 486.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,378,358; May 17; v. 286; p. 486.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,378,359; May 17; v. 286; p. 486.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading machine. No. 1,378,360; May 17; v. 286; p. 487.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading mechanism No. 1,378,361; May 17; v. 286; p. 487.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,378,362; May 17; v. 286; p. 487.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Apparatus for mining coal. No. 1,378,830; May 17; v. 286; p. 577.
Levine, Bernard, New York, N. Y., assignor of one-half to The H. Wolff Estate. Automatic marker. No. 1,377,208; May 10; v. 286; p. 214.
Levy, Daniel B., assignor to Uneeda Cone Co., New York, N. Y. Pastry-forming device. No. 1,376,711; May 3; v. 286; p. 62.
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Variable-speed transmission. No. 1,377,593; May 10; v. 286; p. 288.
Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
Lewis, Elmer M., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Manufacturing bicycle-forks. No. 1,378,041; May 17; v. 286; p. 427.
Lewis, Fred K., Ashtabula, Ohio. Top for vehicles and the like. No. 1,379,635; May 31; v. 286; p. 877.
Lewis, H. G., and W. S. Mayer, assignors to said Mayer, Philadelphia, Pa. Gradometer. No. 1,378,042; May 17; v. 286; p. 427.
Lewis, Henry C., Pittsburgh, Pa. Sewing device. No. 1,377,209; May 10; v. 286; p. 214.
Lewis, Henry G., and W. S. Mayer, assignors to Electric Supplies Company, Philadelphia, Pa. Contact-shoe. No. 1,378,695; May 17; v. 286; p. 552.
Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Cow-stall. No. 1,379,769; May 31; v. 286; p. 901.
Lewis, Leroy M., Philadelphia, Pa., assignor to O. B. Lewis, Baltimore, Md. Fusible link and strut. No. 1,379,195; May 24; v. 286; p. 719.
Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,377,137; May 3; v. 286; p. 144.
Lewis, Owen B. (See Lewis, Leroy M., assignor.)
Lewis and Roth Company. (See Bechoff, F., and Samuels, assignors.)
Lewis, Samuel W., Brooklyn, N. Y. Flush-tank apparatus. No. 1,377,712; May 10; v. 286; p. 310.

Lewis Trust Limited, The. (See Coney, Joseph, assignor.)
Lewson, Nicolaus, Portland, Me. Tire-tool. No. 1,378,696; May 17; v. 286; p. 552.
Leymarie, Edmond, Paris, France. Sparking plug. No. 1,378,122; May 17; v. 286; p. 443.
Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
Library Bureau. (See Ohnstrand, Enoch, assignor.)
Lichtenberg, Charles, Brooklyn, N. Y. Combined shaving-mirror and cabinet. No. 1,380,222; May 31; v. 286; p. 987.
Lichtenstein, Edmund, Berlin, Germany. Roller copying-machine. No. 1,378,697; May 17; v. 286; p. 553.
Lickiss, Ernest E., assignor of one-third to R. King and one-third to J. B. Spangler, Oakland, Calif. Operating means for washing apparatus. No. 1,379,830; May 31; v. 286; p. 913.
Lidberg, Tiodolf, assignor to Chicago Surgical and Electrical Company, Chicago, Ill. Sand-bath. No. 1,378,474; May 17; v. 286; p. 509.
Liddle, Leonard M., Pittsburgh, Pa., assignor to Andrew Jergens Company, Cincinnati, Ohio. Soap. No. 1,377,843; May 10; v. 286; p. 337.
Lidholm, Johan H., Wargön, Sweden. Producing cyanamid from calcium cyanamid. No. 1,380,223; May 31; v. 286; p. 987.
Liebman, Meyer, and G. E. Doughty, New York, N. Y. Transfer system for department stores and the like. No. 1,376,950; May 3; v. 286; p. 109.
Liebold, Ernest G., Detroit, Mich. Wall-socket. No. 1,376,712; May 3; v. 286; p. 62.
Liebold, Ernest G., Detroit, Mich. Air-moistening structure for hot-air furnaces. No. 1,380,321; May 31; v. 286; p. 1006.
Lien, Hans, Brockton, Mont. Oil-can. No. 1,376,558; May 3; v. 286; p. 34.
Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,378,247; May 17; v. 286; p. 466.
Lightner, Arthur D., and E. Holmes, assignors to Willys-Overland Company, Toledo, Ohio. Vehicle-lifting means. No. 1,376,445; May 3; v. 286; p. 13.
Lightner, Arthur D., and E. Holmes, assignors to Willys-Overland Company, Toledo, Ohio. Lifting-hook for shells. No. 1,376,446; May 3; v. 286; p. 13.
Lillenfeld, Leon, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making cellulose xanthogenate solutions and product produced. No. 1,379,351; May 24; v. 286; p. 749.
Lillibridge, Curtis C., Hutchinson, Kans. Hot-air stove. No. 1,378,043; May 17; v. 286; p. 427.
Lincoln, Leo B., Chicago, Ill. Electric sadiron. No. 1,378,589; May 17; v. 286; p. 531.
Lindamood, Roy S., Galveston, Tex. Amusement device. No. 1,379,454; May 24; v. 286; p. 768.
Lindauer, William A., El Paso, Tex. Fluid-conditioning apparatus. No. 1,379,831; May 31; v. 286; p. 913.
Lindenmuth, Raymond F., Quakake, Pa. Lock. No. 1,376,951; May 3; v. 286; p. 109.
Linder, Samuel E., Buckhurst Hill, and R. Lessing, assignors to Hydronyl Syndicate, Limited, London, England. Neutralizing and drying commercial ammonium sulfate. No. 1,377,493; May 10; v. 286; p. 270.
Lindholm, Arthur C., Springfield, Mass. Power attachment. No. 1,376,952; May 3; v. 286; p. 109.
Lindholm, Arthur C., Springfield, Mass. Work-holder. No. 1,376,953; May 3; v. 286; p. 109.
Lindquist, David E. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Lindsay, Franklin G., Dunbar, assignor to Mardorff Printing Company, Inc., Brownsville, Pa. Store coupon-check. No. 1,379,455; May 24; v. 286; p. 768.
Lindsay, George W., assignor to The Denver Fire Clay Company, Denver, Colo. Combination-burner. No. 1,378,248; May 17; v. 286; p. 466.
Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Shuttle-throwing device. No. 1,380,224; May 31; v. 286; p. 987.
Lindsay, Harvey B., Oakland, Calif. Pump. No. 1,377,210; May 10; v. 286; p. 214.
Lindsay, Lycurgus, and E. M. Davids, Los Angeles, Calif. Pneumatic dust-separator. No. 1,380,322; May 31; v. 286; p. 1006.
Lindsay Wire Weaving Company, The. (See Lindsay, Hamilton, assignor.)
Lindsey, Harry W., Jr. (See Green, C. F., and Lindsey.)
Lindstrom, Arthur, South Bellingham, Wash. Nail-set or punch. No. 1,378,698; May 17; v. 286; p. 553.
Link-Belt Company, *et al.* (See Budd, Thomas D., assignor.)
Linn, John, *et al.* (See Harp, William I., assignor.)
Linotype and Machinery Limited. (See Ellis, Herbert, assignor.)
Lintz & Eckhardt. (See Unger, Hugo, assignor.)
Linvill, Josiah, Bethany, Mo. Door-opening mechanism. No. 1,379,456; May 24; v. 286; p. 768.
Linz, Arthur, New York, N. Y., assignor to The Chemical Foundation Incorporated. Producing tungsten lakes. No. 1,378,882; May 24; v. 286; p. 660.
Lion, Auguste A., *et al.* (See Beaudot, Georges M., assignor.)
Lipohn, I. J., *et al.* (See Bennett, Harry J., assignor.)
Lippert, Samuel. East Cleveland, Ohio. Thermostatic valve. No. 1,376,818; May 3; v. 286; p. 83.
Lissauer, Adolph W., New York, N. Y. Air-humidifier. No. 1,377,594; May 10; v. 286; p. 288.
Lissman, Marcel, Sacramento, Calif. Speed-reduction gearing. No. 1,376,954; May 3; v. 286; p. 110.
List, Franz, New York, N. Y., assignor to C. A. Blades, Arlington, N. J. Merchandise-display box. No. 1,378,363; May 17; v. 286; p. 487.
List, John, Lake George, Mich. Space-band cleaner. No. 1,377,357; May 10; v. 286; p. 244.
Little, Ivo C., Barrow-in-Furness, and E. E. Crook, Great Yarmouth, England. Aircraft. No. 1,377,421; May 10; v. 286; p. 256.
Littlefield, Arlon, Cranston, assignor to New England Butt Company, Providence, R. I. Truck. No. 1,376,955; May 3; v. 286; p. 110.
Littlejohn, Dana M., Pana, Ill. Surgical needle. No. 1,377,359; May 10; v. 286; p. 244.
Livingston, D. M., New York, N. Y. Making cellular elements for radiators or the like. No. 1,377,494; May 10; v. 286; p. 270.
Lloyd, Converse W., New York, N. Y., assignor to L. Lloyd, Lincoln, Nebr. Collapsible toothbrush. No. 1,378,044; May 17; v. 286; p. 427.
Lloyd, L. Lynn. (See Lloyd, Converse W., assignor.)
Lloyd, Richard L., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating ores. No. 1,378,699; May 17; v. 286; p. 553.
Lloyd, Richard L., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treatment of lixiviation-residue zinc. No. 1,378,822; May 17; v. 286; p. 576.
Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
Locomotive Tender Frame Company. (See Westlake, Charles T., assignor.)
Loepsinger, Albert J., Edgewood, assignor to General Fire Extinguisher Company, Providence, R. I. Automatic sprinkler system. No. 1,378,249; May 17; v. 286; p. 466.
Loewenberg, Victor, New York, N. Y. Combination bed and douche pan. No. 1,376,956; May 3; v. 286; p. 110.
Loffi, George. (See Loffi, Leonard J., assignor.)
Loffi, Leonard J., Fort Wayne, assignor of one-half to G. Loffi, Garrett, Ind. Combination swing and high chair. No. 1,377,422; May 10; v. 286; p. 256.
Loffler, Edmund. (See de Lukacsevics, C., and Loffler.)
Logan, Marsellus J., Springfield, assignor of one-half to L. G. Alexander, Alexandria, Va. Countersink. No. 1,377,495; May 10; v. 286; p. 270.
Lombard, Harold E., *et al.* (See Horn, Charles A., assignor.)
Long, Catherine E. (See Carney, James P., assignor.)
Long, Charles, assignor of one-half to F. Garner, Jeffersonville, Ind. Oil-pump. No. 1,377,895; May 10; v. 286; p. 347.
Long Manufacturing Company. (See Eligh, Charles A., assignor.)
Long Manufacturing Company. (See Hawkins, Raymond L., assignor.)
Long, Nancy K., *et al.*, executors. (See Keiper, Henry B.)
Loomis, Alfred L., U. S. Army; P. Klopsteg, Philadelphia, Pa.; P. G. Agnew, Washington, D. C., and W. H. Stannard, Glen Echo, Md. Chronograph. No. 1,376,890; May 3; v. 286; p. 98.
Loomis-Manning Filter Manufacturing Company. (See Manning, J. T., and Cludius, assignors.)
Loose, Kenneth D. (See Lawrence, E. E., and Loose.)
Loose-Wiles Biscuit Company. (See Lawrence, E. E., and Loose, assignors.)
Loosli, Eugene, Ilion, N. Y. Machine for grinding pallet-stones. No. 1,378,364; May 17; v. 286; p. 488.
Lord, Harry G., Collingswood, N. J. Torsional equalizer. No. 1,380,225; May 31; v. 286; p. 987.
Lorentzen, Hans K., New York, N. Y. Apparatus for duplicating typewritten matter. No. 1,378,883; May 24; v. 286; p. 660.
Lorenz, William A., Hartford, Conn. Headlights. No. 1,376,447; May 3; v. 286; p. 13.
Losh, Charles S., New York, N. Y. Organ-pipe. No. 1,376,891; May 3; v. 286; p. 98.
Loudon Manufacturing Company. (See Wosinski, Bert, assignor.)
Loufek, Frank, Cedar Rapids, Iowa. Wheel-compressing machine. No. 1,378,700; May 17; v. 286; p. 553.
Lougheed, Victor, Santa Barbara, assignor to Duodisk Steel Wheel Corporation, Los Angeles, Calif. Disk-wheel assembly. No. 1,379,352; May 24; v. 286; p. 750.
Lounge, John H. (See Beyer, F. N., and Lounge.)
Louthan, Wallace B., Marshalltown, Iowa. Direction-indicator. No. 1,377,082; May 3; v. 286; p. 134.
Love, Charles A., and C. Goldston, Paris, Tenn. Staple-nail. No. 1,378,803; May 17; v. 286; p. 573.
Lovejoy, Elmer, Laramie, Wyo. Trackage for ceiling type of doors with door-openers. No. 1,378,123; May 17; v. 286; p. 443.
Lovejoy, Ralph M., Meredith, N. H. Elevating hand-truck. No. 1,378,250; May 17; v. 286; p. 466.
Lovell, Roy A., San Francisco, Calif. Piston-ring. No. 1,378,251; May 17; v. 286; p. 467.
Lovett, Stephen H., Miles City, Mont. Car-door. No. 1,378,475; May 17; v. 286; p. 509.
Low, Everett M., Brooklyn, N. Y. Typographic composing-machine. No. 1,378,045; May 17; v. 286; p. 428.

Lowden, Hugh B., Denver, Colo. Drying apparatus. No. 1,377,896; May 10; v. 286; p. 347.

Lowe, William H. (See Plettner, O. L., and Lowe.)

Lowenhaupt, Daniel, and C. D. Rowe, Mount Vernon, Ind. Knockdown shipping box or crate. No. 1,379,196; May 24; v. 286; p. 719.

Lowenstein Radio Company. (See Theimer, Eugene, assignor.)

Lower, Nathan M., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,377,259; May 10; v. 286; p. 224.

Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,379,307; May 24; v. 286; p. 741.

Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,379,306; May 24; v. 286; p. 740.

Lowry, Howard S., Kansas City, Mo. All-porcelain tooth. No. 1,377,358; May 10; v. 286; p. 244.

Loxterman, Howard B., assignor to Blaw-Knox Company, Pittsburgh, Pa. Road rail or form. No. 1,379,457; May 24; v. 286; p. 769.

Lubé, Henry, College Point, N. Y. Tone-arm bearing for talking-machines. No. 1,378,965; May 24; v. 286; p. 676.

Lubin, Lewi, New York, N. Y. Watchcase. No. 1,376,776; May 3; v. 286; p. 75.

Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Four-wheel-brake equalizer. No. 1,379,111; May 24; v. 286; p. 703.

Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Rear-axle drive. No. 1,379,770; May 31; v. 286; p. 901.

Luck, Charles A., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Fountain-pen. No. 1,380,109; May 31; v. 286; p. 966.

Luder, Ernst, Visp, assignor to Usines Electriques de la Lonza, Gampel, Switzerland. Acetylene-generator. No. 1,377,595; May 10; v. 286; p. 288.

Ludwig, Arthur J., Baxter, Iowa. Coin-operated mechanism for gasolene-vending machines and the like. No. 1,378,590; May 17; v. 286; p. 531.

Luedke, Gustav P., Springfield, Ill. Threshing-machine. No. 1,379,112; May 24; v. 286; p. 704.

Lucky, Erving A., and R. N. Houghton, Detroit, Mich. Coincident maximum-demand relay. No. 1,378,884; May 24; v. 286; p. 661.

Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Article and method for hermetically sealing packing vessels. No. 1,379,113; May 24; v. 286; p. 704.

Luick, William F., Milwaukee, Wis. Identification-card holder. No. 1,378,179; May 17; v. 286; p. 453.

Lulham, Thomas R., Johannesburg, South Africa. Boot-protector. No. 1,379,458; May 24; v. 286; p. 769.

Lunepp, Joseph, South River, N. J. Textile-finishing drum. No. 1,377,900; May 10; v. 286; p. 848.

Lunt, Laurence C., New Haven, Conn. Ring used in connection with animal-traps for fastening end of chain to objects. No. 1,376,892; May 3; v. 286; p. 98.

Lupinacci, Antonio. (See Rabuazzo, Salvatore, assignor.)

Luschka, August R., and J. Folk, assignor to U. S. Slicing Machine Company, Laporte, Ind. Stacker for slicing-machines. No. 1,376,775; May 3; v. 286; p. 74.

Lutzhoff, Elmer E., Jamestown, N. Y. Lid-support. No. 1,378,501; May 17; v. 286; p. 532.

Lydon, Timothy, Baltimore, Md. Building slab or tile. No. 1,379,636; May 31; v. 286; p. 877.

Lyle, Gordon H., East Falls Church, Va. Full-stroke-compelling device. No. 1,378,701; May 17; v. 286; p. 553.

Lynch, William H., Berkeley, Calif. Illuminator for license-plates. No. 1,378,548; May 17; v. 286; p. 523.

Lyon & Healy. (See Jefferson, Benjamin H., assignor.)

Lyon Metallic Manufacturing Company. (See Shiek, Daniel W., assignor.)

McBratney, Harry T., Tarentum, Pa., assignor to Valley Holding Corporation, Brackenridge, Pa. Annealing-box. No. 1,376,448; May 3; v. 286; p. 14.

McCabe, John R., Wichita, Kans. Producing motor fuel. No. 1,376,713; May 3; v. 286; p. 63.

McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,377,211; May 10; v. 286; p. 214.

McCarthy, J. F. C. (See Bell, George T., assignor.)

McCauley, Drewey M., Algood, Tenn. Gate. No. 1,377,901; May 10; v. 286; p. 348.

McCay, Jasper N., Watts, Calif. Truss-pad. No. 1,377,260; May 10; v. 286; p. 224.

McClenathen, Robert, Cuyahoga Falls, and J. Noall, Akron, Ohio, assignors to Kelly Springfield Tire Co. Fabric-smoothing machine. No. 1,377,212; May 10; v. 286; p. 214.

McClimon, Jay S., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Door-operating mechanism for tilting furnaces. No. 1,376,819; May 3; v. 286; p. 83.

McCloud, Edward H., assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting shutter. No. 1,376,820; May 3; v. 286; p. 83.

McClymont, Bryce W., assignor to Penberthy Injector Company, Detroit, Mich. Steam-heating apparatus. No. 1,378,252; May 17; v. 286; p. 467.

McCollough, James H., Jr., San Jose, Calif. Automobile-seat. No. 1,379,270; May 24; v. 286; p. 733.

McCollum, Alfred F., Bloomsburg, Pa. Method and machine for printing pile fabrics. No. 1,377,083; May 3; v. 286; p. 134.

McConnell, Duncan A., Montclair, N. J., assignor to Klaxon Company. Mechanical horn. No. 1,378,124; May 17; v. 286; p. 443.

McConnell, William E. (See McConnell, William S. and W. E.)

McConnell, William S. and W. E., Kansas City, Kans. Multiple-jaw-setting attachment for steady-rests for lathes. No. 1,378,253; May 17; v. 286; p. 467.

McCormick, Charles M., Columbus, Ohio. Pocket-flap. No. 1,376,821; May 3; v. 286; p. 84.

McCracken, R. M. (See Johnson, Orlando B., assignor.)

McCray, John M., Pueblo, Colo. Button-knife. No. 1,380,226; May 31; v. 286; p. 987.

McCue, Charles W. (See Conger, H. O., and McCue.)

McCullough, William T., assignor of one-half to H. J. Orth, Pittsburgh, Pa. Signaling torpedo. (Reissue.) No. 15,101; May 10; v. 286; p. 367.

McCutchen, Brunson S., U. S. Army, and H. E. Williams, Carthage, Mo. Synchronous transmitter. No. 1,377,844; May 10; v. 286; p. 337.

McDaniel, Floyd B., Salem, Va. Safety air-brake device. No. 1,379,459; May 24; v. 286; p. 769.

McDill, Everett, Sparta, Ill. Mail-receptacle support. No. 1,377,084; May 3; v. 286; p. 134.

McDonald, Clarence T., assignor to Chicago Fuse Mfg. Co., Chicago, Ill. Inclosed fuse. No. 1,379,114; May 24; v. 286; p. 704.

McDonald, Lewis C., Page, Nebr. Rim-repairing machine. No. 1,377,845; May 10; v. 286; p. 337.

McDonald, Vernon M., Denver, Colo., assignor of fifty-five one-hundredths to J. R. Kearney, Kansas City, Mo. Wire and cable puller. No. 1,378,702; May 17; v. 286; p. 553.

McDonald, William B., Lawrence, Kans. Combination wood and cement post. No. 1,379,029; May 24; v. 286; p. 688.

McDougall, Alexander, Duluth, Minn. Vessel superstructure. No. 1,380,110; May 31; v. 286; p. 966.

McDougall, Taylor, Pasadena, and S. Russo, Los Angeles, Calif.; said McDougall assignor to said Russo. Record-file. No. 1,379,030; May 24; v. 286; p. 688.

McGarvey, Edward, Beaver Falls, assignor to Standard Scale & Supply Company, Pittsburgh, Pa. Safety-latch for recording scale-beams. No. 1,378,966; May 24; v. 286; p. 676.

McGeorge, John, Lakewood, assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Ventilator. No. 1,378,476; May 17; v. 286; p. 509.

McGinley, William H., Pleasant Beach, N. Y. Car-replacer. No. 1,378,180; May 17; v. 286; p. 453.

McGinnis, Edmond J., *et al.* (See Warrington, William J., assignor.)

McGlothlen, Barton F., San Bernardino, Calif. Indicator. No. 1,380,227; May 31; v. 286; p. 988.

McGrath, Harry N., San Francisco, Calif. Gun-firing device. No. 1,377,015; May 3; v. 286; p. 121.

McGregory, Edward L. (See Wilcox, F. A., and McGregory.)

McGrother, Joseph F., and J. S. Deen, Philadelphia, Pa. Automobile-light. No. 1,376,822; May 3; v. 286; p. 84.

McGuckin, Henry J., New York, N. Y. Sanitary tub and sink trap. No. 1,378,181; May 17; v. 286; p. 454.

McGuire, William D., Jr., New York, N. Y. Puzzle of the movies. No. 1,379,871; May 31; v. 286; p. 921.

McKay, John A., New York, N. Y., assignor to General Electric Company. Electrical fitting connection. No. 1,378,477; May 17; v. 286; p. 510.

McKechnie, Alexander, Birmingham, England. Separating and recovering nickel. No. 1,377,713; May 10; v. 286; p. 310.

McKellar, William D., Salt Lake City, Utah. Apparatus for visibly vending liquids. No. 1,377,085; May 3; v. 286; p. 135.

McKenzie, Peter H., Chicago, Ill. Chain-grate construction. No. 1,376,449; May 3; v. 286; p. 14.

McKeown, Samuel C., East Orange, N. J. Ruler T-square. No. 1,376,559; May 3; v. 286; p. 34.

McKinlay, Edward S., Denver, Colo. Cartridge-explosive. No. 1,379,637; May 31; v. 286; p. 877.

McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Seat construction for vehicles. No. 1,379,771; May 31; v. 286; p. 901.

McKinney, Burr. (See Cole, I. M., and McKinney.)

McKinnon Dash Company. (See Drumb, John, assignor.)

McLain, Charles A., and E. M. Bothne, Minneapolis, Minn. Educational block. No. 1,377,261; May 10; v. 286; p. 224.

McLaren, Jessie R., Massena, Iowa. Locket. No. 1,377,902; May 10; v. 286; p. 348.

McLaughlin, Leo V., Chester, Pa. Pulley attachment for automobiles. No. 1,378,703; May 17; v. 286; p. 554.

McLaughlin, Patrick, Dover, N. H. Heating system. No. 1,378,592; May 17; v. 286; p. 532.

McLean, Robert J. (See Telford, W., and McLean.)

McLeod, Norman J., and C. F. Rainsford, Adelaide, South Australia, Australia. Collapsible crate or packing-case. No. 1,378,614; May 17; v. 286; p. 536.

McLeroth, Thomas B., London, England. Air-tube for pneumatic tires and mold therefor. No. 1,379,929; May 31; v. 286; p. 932.

McMahon, William F., Johnstown, Pa. Signal-lamp. No. 1,380,155; May 31; v. 286; p. 975.

McMillan, John A. (See Easter, W. Frank, assignor.)

McMullen, Thomas D., East Cleveland, Ohio. Steering-wheel. No. 1,378,478; May 17; v. 286; p. 510.

McNeil, James E., Los Angeles, Calif. Railway-joint expansion-jack. No. 1,378,479; May 17; v. 286; p. 510.

McNicoll, William W. (See New, Edward A., assignor.)

McPartland, Walter J., Cambridge, Mass. Armrest. No. 1,378,704; May 17; v. 286; p. 554.

McPherson, Arthur D., Chicago, Ill. Power-transmitting device. No. 1,379,031; May 24; v. 286; p. 688.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switching apparatus. No. 1,376,893; May 3; v. 286; p. 98.

McVay, James, River Rouge, Mich. Wire-bending tool. No. 1,380,323; May 31; v. 286; p. 1006.

McVoy, Vincen P., Mobile, Ala. Safety-plug for cylinders. No. 1,377,496; May 10; v. 286; p. 270.

Mabbitt, Alan T. (See Adam, M. A., Stevenson, and Mabbitt.)

Mabey, Charles W., Indianapolis, Ind. Glue-pot. No. 1,376,823; May 3; v. 286; p. 84.

Mable, William, assignor of forty-nine one-hundredths to C. C. Christensen, Fort Collins, Colo. Beet-loader. No. 1,378,705; May 17; v. 286; p. 554.

MacBain, Donald R., Cleveland, Ohio. Air-brake system. No. 1,378,365; May 17; v. 286; p. 488.

Macdonald, Donald, Melbourne, Victoria, Australia. Lighting system of vehicles. No. 1,378,885; May 24; v. 286; p. 661.

MacDonald, Jack B., Oakland, Calif. Internal-combustion engine. No. 1,378,254; May 17; v. 286; p. 467.

MacDonald, John A., Blairmore, Alberta, Canada. Shot-firing device. No. 1,377,086; May 3; v. 286; p. 135.

MacIndoe, John F., Philadelphia, Pa. Flexible lubricant-container. No. 1,379,197; May 24; v. 286; p. 720.

Mack, Edward A., Salt Lake City, Utah. Locking-cap for automobile-radiators. No. 1,376,560; May 3; v. 286; p. 34.

Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-string. No. 1,377,262; May 10; v. 286; p. 224.

MacKenzie, Roy J., and L. L. Haas, assignors to Buffalo Pressed Steel Co., Buffalo, N. Y. Exhaust-muffler. No. 1,376,957; May 3; v. 286; p. 110.

Mackey, John H. (See Walters, Henry W., assignor.)

MacKinnon, Archibald, Tuckahoe, N. Y. Window. No. 1,379,460; May 24; v. 286; p. 769.

Mackintosh, Edith M., *et al.*, assignees. (See Mackintosh, Edward D.) (Reissue.)

Mackintosh, Edward D., deceased, Brooklyn, by S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y., assignees. Driving electric centrifugal machines. (Reissue.) No. 15,115; May 31; v. 286; p. 1009.

MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc., Providence, R. I. Recovery of ammonia. No. 1,378,593; May 17; v. 286; p. 532.

MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc. Production of barium chlorid. No. 1,378,594; May 17; v. 286; p. 532.

MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc. Producing carbonates of the alkaline-earth metals. No. 1,378,595; May 17; v. 286; p. 532.

MacMinn, Alexander H., and W. H. Graham, Portland, Me. Safety-catch for car-doors. No. 1,379,997; May 31; v. 286; p. 944.

Maddy, James H., New York, N. Y. Preparing ferric articles for metallic baths. No. 1,379,998; May 31; v. 286; p. 945.

Madelbaum, Maurice H., Chicago, and B. R. Webster, Elgin, Ill., assignors to Brandt Cashier Company. Key for office devices. No. 1,376,958; May 3; v. 286; p. 111.

Maescher, Louis J. (See Wichmann, John C., assignor.)

Magnat, Charles W., Jr., Paterson, N. J. Child's skid rocking-horse. No. 1,377,423; May 10; v. 286; p. 256.

Maguire, Hugh F., New York, N. Y. Testing device for ignition systems. No. 1,380,228; May 31; v. 286; p. 988.

Maher, James M., Fremont, Nebr. Stream-deflector. No. 1,378,967; May 24; v. 286; p. 676.

Mahler, Ernst, Neenah, Wis. Beating-engine. No. 1,378,046; May 17; v. 286; p. 428.

Maier, Frank X., Sterling, Ill. Adjustable light-support. No. 1,379,638; May 31; v. 286; p. 878.

Maimin, Hyman, New York, N. Y. Motor-bracket. No. 1,377,016; May 3; v. 286; p. 121.

Maimin, Hyman, New York, N. Y. Support for sewing-machine motors. No. 1,377,017; May 3; v. 286; p. 121.

Maimin, Hyman, New York, N. Y. Motor-drive for sewing-machines. No. 1,377,018; May 3; v. 286; p. 121.

Maimin, Hyman, New York, N. Y. Belt-drive for sewing-machine motors. No. 1,377,019; May 3; v. 286; p. 122.

Maineri, Daniel L., assignor to The Berger Manufacturing Company, Canton, Ohio. Metal-sheet-pack-separating device. No. 1,378,886; May 24; v. 286; p. 661.

Maize, Adam P., assignor of one-half to H. E. Bohner, Allentown, Pa. Rug-extractor. No. 1,377,169; May 3; v. 286; p. 150.

Malcolmson, James D., Wilkinsburg, Pa., assignor, by mesne assignments, to The Container Club, Chicago, Ill. Manufacture of adhesives. No. 1,379,639; May 31; v. 286; p. 878.

Malcom, Robert, Chicago, Ill. Helmet. No. 1,378,255; May 17; v. 286; p. 468.

Malhomme, Maurice R., assignor to J. Poberejsky, Paris, France. Electrical heating apparatus. No. 1,378,256; May 17; v. 286; p. 468.

Malinowsky, Augustin W., Detroit, Mich. Contents-indicator for containers. No. 1,379,271; May 24; v. 286; p. 734.

Mallison, Frank K., assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio. Demountable rim. No. 1,378,968; May 24; v. 286; p. 676.

Mallory, George P., Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Dwelling pitman. No. 1,378,706; May 17; v. 286; p. 554.

Mallory, George P., Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Machine for forming spoons and other flatware articles out of sheet material. No. 1,378,707; May 17; v. 286; p. 555.

Mallory, Marion, Wichita, Kans. Internal-combustion engine. No. 1,379,115; May 24; v. 286; p. 704.

Malloy, John D., Hartford, Conn. Pin-caliper. No. 1,379,116; May 24; v. 286; p. 704.

Maloney, William J., Ansonia, Conn. Attachment for warping-machines. No. 1,378,257; May 17; v. 286; p. 468.

Maltby, Frank D., Battle Creek, Mich. Carbureter. No. 1,379,772; May 31; v. 286; p. 902.

Manas, John E., Princeton, N. J. Propeller-rotating device. No. 1,379,461; May 24; v. 286; p. 769.

Manchester, Arthur P., Providence, and H. M. Spooner, Cranston, R. I. Battery. No. 1,378,549; May 17; v. 286; p. 523.

Mandelbaum, Maurice H., Chicago, Ill., and B. R. Webster, Elgin, Ill., assignors to Brandt Cashier Company. Coin-locking mechanism. No. 1,376,959; May 3; v. 286; p. 111.

Mandelbaum, Maurice H., Chicago, and B. R. Webster, Elgin, Ill., assignors to Brandt Cashier Company. Change-making machine. No. 1,376,960; May 3; v. 286; p. 111.

Manderfield, Robert J., Hancock, Mich. Device for cutting eyes out of large potatoes for seed. No. 1,378,258; May 17; v. 286; p. 468.

Manheim, Lyndon W., Camden, S. C. Freight-car door. No. 1,380,229; May 31; v. 286; p. 988.

Manley, John M., Montgomery, Ala. Apparatus for the treatment of milk. No. 1,380,230; May 31; v. 286; p. 988.

Mann, Leon. (See Koppelman, Morris, assignor.)

Manning, J. E., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)

Manning, J. T., and C. F. Cludius, Philadelphia, Pa., assignors to Loomis-Manning Filter Manufacturing Company, Camden, N. J. Apparatus for supplying hot water in houses. No. 1,377,714; May 10; v. 286; p. 310.

Manning, Maxwell & Moore. (See Crocker, Ernest B., assignor.)

Manns, Jack A., Toronto, Ontario, Canada. Electric engine. No. 1,377,087; May 3; v. 286; p. 135.

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Device for forming posting-slips. No. 1,379,411; May 24; v. 286; p. 760.

Manny, Raymond A., and J. A. Rielly, Brooklyn, N. Y. Garter. No. 1,377,903; May 10; v. 286; p. 340.

Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Carriage feed and stop mechanism. No. 1,376,714; May 3; v. 286; p. 63.

Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Tool-carrier feed. No. 1,376,715; May 3; v. 286; p. 63.

Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Microphone. No. 1,378,708; May 17; v. 286; p. 555.

Manternach, John C., Lakewood, assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,379,032; May 24; v. 286; p. 689.

Many, Julius, New York, N. Y. Combined tire-valve and pressure-indicator. No. 1,377,596; May 10; v. 286; p. 288.

Maple, Cyril J. (See Maple, Edward J. and C. J.)

Maple, Edward J. and C. J., Grafton, assignors of one-third to F. M. Stevens, Elyria, Ohio. Electric-switch lock. No. 1,379,640; May 31; v. 286; p. 878.

Marceau, Ector F., East Hartford, Conn. Ink-distributer for printing-presses. No. 1,379,353; May 24; v. 286; p. 750.

Marchant Calculating Machine Company. (See Friden, Carl M. F., assignor.)

Marcinek, Ferdinand A., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Drawer-locking device. No. 1,379,999; May 31; v. 286; p. 945.

Marconi, Guglielmo, London, England. Electric accumulator. No. 1,377,722; May 10; v. 286; p. 312.

Marcus, Benjamin H., Brooklyn, N. Y. Hook or eye. No. 1,379,872; May 31; v. 286; p. 921.

Mardorff Printing Company. (See Lindsay, Franklin G., assignor.)

Maréchal, Pierre M. G. (See Hervieu, G., and Maréchal.)
Marendowski, Victor, Paris, France. Stud for spring-pressure fasteners or buttons. No. 1,380,000; May 31; v. 286; p. 945.
Marinsky, Louis, New York, assignor to I. F. Greenbaum, Brooklyn, N. Y. Machine for automatically attaching closing-clips for flexible tubes. No. 1,378,596; May 17; v. 286; p. 533.
Markell, Alexander. (See Newth, Basil, assignor.)
Markem Machine Company. (See Putnam, F. A., and Robbins, assignors.)
Markgraf, Marc G., Brooklyn, N. Y. Phonograph-record-receiving envelop and making the same. No. 1,379,198; May 24; v. 286; p. 720.
Markos, Gus W., Columbus, Ohio. Vehicle direction-signal. No. 1,379,117; May 24; v. 286; p. 705.
Marks, Abraham, Elizabeth, N. J. Tire-spreader. No. 1,379,354; May 24; v. 286; p. 750.
Marriott, Harry H., Kansas City, Mo. Sign. No. 1,377,904; May 10; v. 286; p. 340.
Marris, Hubert C., assignor to William Walker and Sons Limited, Bolton, England. Gas-purifying composition and making same. No. 1,379,462; May 24; v. 286; p. 769.
Mars, Charles M. (See Hathaway, E. F., and Mars.)
Marsa, Meichor, New York, assignor to International Cork Company, Brooklyn, N. Y. Bottle-Crowning Machine. No. 1,379,118; May 24; v. 286; p. 705.
Marsh, Albert, Chertsey, England. Ticket delivering, checking, and registering machine. No. 1,378,419; May 17; v. 286; p. 498.
Marsh, Edward S., Rochester, N. Y. Spring-motor and winding means therefor. No. 1,380,111; May 31; v. 286; p. 966.
Marshall, Frederick D. (See Nielsen, H., and Marshall.)
Marshall, George G., Cleveland Heights, Ohio. Air-controlling device for automobile-radiators. No. 1,379,308; May 24; v. 286; p. 741.
Marshel, Addison B., Kansas City, Kans. Card-holder. No. 1,376,716; May 3; v. 286; p. 63.
Marson, Clifford J. (See Doan, H. C., and Marson.)
Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable reamer-head. No. 1,376,450; May 3; v. 286; p. 14.
Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable bushing for reamer-shafts. No. 1,376,451; May 3; v. 286; p. 14.
Martin, Alvin. (See Smith, Richard I., assignor.)
Martin, Clyde W., Little Rock, Ark., assignor of one-half to L. E. Hoffman, St. Louis, Mo. Portable grocery-store. No. 1,379,463; May 24; v. 286; p. 770.
Martin, Isaac, Pittsburgh, Pa. Mine-car coupling. No. 1,380,301; May 31; v. 286; p. 1002.
Martin, James M., Dallas, Tex. Holder for dental X-ray films. No. 1,378,709; May 17; v. 286; p. 555.
Martin, John J., Dallas, Tex. Tractor. No. 1,379,464; May 24; v. 286; p. 770.
Martin, John L. (See Eger, Louis, assignor.)
Martin, Monroe G., Edinburg, Ind. High-temperature cooking system. No. 1,377,088; May 3; v. 286; p. 135.
Martin, Olaf O., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Typewriting and calculating machine. No. 1,378,047; May 17; v. 286; p. 428.
Martin, Thomas P., Jr., Oklahoma, Okla. Paper-feed alarm for adding-machines. No. 1,378,887; May 24; v. 286; p. 661.
Martin, William. (See Enter, Fred F., assignor.)
Martz, Randolph N., Frederick, Md. Combined steering and drive wheel for automobiles. No. 1,377,905; May 10; v. 286; p. 349.
Marx, Roland G., Palo Alto, Calif. Liquid-fuel burner. No. 1,378,480; May 17; v. 286; p. 510.
Marzyck, Herman G., Jacksonville, Fla. Method of and apparatus for removing threaded members. No. 1,380,071; May 31; v. 286; p. 959.
Masci, Armando, Genoa, Italy. Boiler-grate. No. 1,379,272; May 24; v. 286; p. 734.
Masland, Walter E. (See Sparre, F., and Masland.)
Mason, Frederick W., Toronto, Ontario, Canada. Grease and oil separator. No. 1,377,906; May 10; v. 286; p. 349.
Mason, Julius H., Duncan Falls, Ohio, assignor to C. C. Hartsell, Huntington, W. Va. Sectional coal-auger nut. (Reissue.) No. 15,112; May 24; v. 286; p. 797.
Matheny, Charles A., Kingston, Tenn. Land-drag. No. 1,379,033; May 24; v. 286; p. 689.
Mather, Carl H. (See Hostler, E. D., Hamiel, and Mather.)
Matheson, Howard W., Shawenegan Falls, Quebec, Canada. Oxidizing mercury. No. 1,379,465; May 24; v. 286; p. 770.
Matheson, Howard W., Shawenegan Falls, Quebec, Canada. Electrolytic cell. No. 1,379,466; May 24; v. 286; p. 770.
Matheson, Howard W., and F. T. Kaelin, Shawenegan Falls, Quebec, Canada. Electrolytic cell. No. 1,379,467; May 24; v. 286; p. 770.
Mathieson Alkali Works, The. (See MacMahon, James H., assignor.)
Matson, Edgar C., Handley, assignor to J. A. B. Holt, Pratt, W. Va. Sewing-machine. No. 1,379,468; May 24; v. 286; p. 770.
Matsumoto, Ken, and K. Takagi, Tokyo, Japan. Fountain-pen. No. 1,380,231; May 31; v. 286; p. 988.
Matteson, Walter C., Stockton, Calif. Body construction for tractors. No. 1,379,710; May 31; v. 286; p. 891.
Matthews, Herbert. (See Seator, Robert J., assignor.)
Mattson, Franklin A., Rochester, Minn. Four-wheel-drive tractor. No. 1,377,497; May 10; v. 286; p. 271.
Mattuliath, Alice K., Inwood, assignor to American Baisa Corporation, New York, N. Y. Dirigible airship. No. 1,376,629; May 3; v. 286; p. 347.
Mauger, Nestor, assignor to Société Auxiliaire d'Exploitations Industrielles, Paris, France. Motor-tractor with propulsive levers. No. 1,376,717; May 3; v. 286; p. 63.
Maughlin, Harry P., Columbus, Ohio. Pattern letter and numeral. No. 1,379,641; May 31; v. 286; p. 878.
Mauzey, George W., near Edgerton, Mo. Well-plug. No. 1,379,119; May 24; v. 286; p. 705.
May, Walter J., Mount Vernon, N. Y. Agitating device. No. 1,376,561; May 3; v. 286; p. 34.
Mayberry, Harry A., McLeansboro, Ill. Car-sign exhibitor. No. 1,380,001; May 31; v. 286; p. 945.
Mayer, George W., New York, N. Y. Sharpener for phonograph-needles. No. 1,378,597; May 17; v. 286; p. 533.
Mayer, Walter S. (See Lewis, H. G., and Mayer.)
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,377,263; May 10; v. 286; p. 225.
Maziarz, Joseph E., Buffalo, N. Y. Insect-trap. No. 1,378,048; May 17; v. 286; p. 428.
Meade, Wyman H., and S. H. Friestedt, Camden, N. J. Coloring and finishing the surface of grain-leather. No. 1,376,961; May 3; v. 286; p. 111.
Meaker, Allen P., and I. F. Baker, San Diego, Calif. Surfacing-machine. No. 1,378,259; May 17; v. 286; p. 468.
Meaker Galvanizing Company. (See Miller, Constantine G., assignor.)
Meckel, Frank, Lakewood, Ohio. Lubricator. No. 1,379,199; May 24; v. 286; p. 720.
Mecky, A., Company. (See Ledig, Richard G., assignor.)
Medén, Elof H., assignor to American Gas Accumulator Company, Elizabeth, N. J. Device for causing submersible bodies to rise or sink. No. 1,379,273; May 24; v. 286; p. 734.
Medlin, Roy A. (See Pratt, Lewis M., assignor.)
Meeks, Fred, Los Angeles, Calif. Duplex picture. No. 1,379,642; May 31; v. 286; p. 878.
Megley, Harley J., assignor of fifty per cent. to himself and fifty per cent. to L. G. Nelson, Chicago, Ill. Binding-strip. No. 1,377,846; May 10; v. 286; p. 337.
Melendy, Earl H., Shellrock, Iowa. Spark-plug. No. 1,377,715; May 10; v. 286; p. 311.
Mellgren, Olof J., Gottenborg, Sweden. Manufacture of igniting compositions for matches. No. 1,379,355; May 24; v. 286; p. 750.
Mellor, George, Philadelphia, Pa. Spark-plug cleaner. No. 1,378,182; May 17; v. 286; p. 454.
Melton, Lloyd L., Chicago, Ill. Internal-combustion engine. No. 1,378,260; May 17; v. 286; p. 468.
Meltz, Julius B., assignor to The Everett Machine and Manufacturing Company, Everett, Mass. Pastry-making machine. No. 1,379,643; May 31; v. 286; p. 878.
Meltzer, Hyman, and L. Karron, Brooklyn, N. Y. Frame for handbags and pocketbooks. No. 1,376,824; May 3; v. 286; p. 84.
Melvin, Morgan, Niagara Falls, N. Y. Gage-cock. No. 1,377,360; May 10; v. 286; p. 244.
Mencarelli, Herman R., assignor of one-half to L. J. O'Riley, Grand Rapids, Mich. Heel for shoes. No. 1,378,261; May 17; v. 286; p. 469.
Menchen, Joseph, New York, N. Y. Protective and alarm system. No. 1,377,264; May 10; v. 286; p. 225.
Mengel Company, The. (See Moore, John A., assignor.)
Menges, Luther A., and W. W. Simpson, assignors to La Fayette Motors Company, Indianapolis, Ind. Shutter construction for motor-vehicle radiators. No. 1,379,644; May 31; v. 286; p. 879.
Menser, Albert N., assignor of one-half to J. Moore, Johnstown, Pa. Rail-fastener. No. 1,378,366; May 17; v. 286; p. 488.
Mergenthaler Linotype Company. (See Alderdice, Walter, assignor.)
Mergenthaler Linotype Company. (See Griffith, Chauncey H., assignor.)
Merlien, Hiram A., *et al.* (See Whitney, William A., assignor.)
Merrill, Stephen E., Port Richmond, N. Y. Automatic choke-valve-actuating device. No. 1,379,274; May 24; v. 286; p. 734.
Merriman, Willeve T., Jackson, Mich. Tie-fastener. No. 1,379,034; May 24; v. 286; p. 689.
Merritt, Ernest, Ithaca, N. Y. Submarine sound detection. No. 1,378,420; May 17; v. 286; p. 499.
Mertens, Eugene R., assignor to Detroit Cadillac Motor Car Company, New York, N. Y. Radiator-cover. No. 1,379,412; May 24; v. 286; p. 760.
Merz, Gottlieb, McKeesport, Pa. Automatic mechanism for operating gates, doors, &c. No. 1,378,183; May 17; v. 286; p. 454.
Mesnooh, Joseph S., Brooklyn, N. Y. Window-regulator. No. 1,380,002; May 31; v. 286; p. 945.
Messina, Jose, *et al.* (See Biondo, Philip M., assignor.)
Metals Recovery Company. (See Sayre, Ralph E., assignor.)
Metcalf, Ernest H., Marlboro, N. H. Tweezers. No. 1,380,232; May 31; v. 286; p. 989.

Metzler, Fredrick, Philadelphia, Pa. Cap-remover. No. 1,376,562; May 3; v. 286; p. 35.
Meyer, Fred. (See Kuhlemeier, F. J., and Meyer.)
Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus for dynamo-electric machines. No. 1,376,452; May 3; v. 286; p. 14.
Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus for alternating-current dynamo-electric machines. No. 1,376,453; May 3; v. 286; p. 14.
Meyer, George J., Milwaukee, Wis. Safety-door and door attachment for elevators. No. 1,377,213; May 10; v. 286; p. 215.
Meyer, William H., Brooklyn, N. Y. Card-mount for articles of merchandise. No. 1,378,262; May 17; v. 286; p. 469.
Meyerhofer, Albert F., Mannheim, assignor to Dynamidon G. m. b. H., Mannheim-Waldhof, Germany. Lining for kilns. No. 1,378,710; May 17; v. 286; p. 555.
Meyering, J. V., Trunk Company. (See Hamlin, Ben M., assignor.)
Meyering, J. V., Trunk Company. (See Marcinek, Ferdinand A., assignor.)
Meyerpeter, Leo H., St. Thomas, Mo. Scoop-board for wagon-bodies. No. 1,380,233; May 31; v. 286; p. 989.
Meyers, Otto H., New York, N. Y. Folding convertible go-cart, high chair, and baby-jumper. No. 1,378,598; May 17; v. 286; p. 533.
Miami Trailer Company, The. (See Bain, Foreé, assignor.)
Michael, Joseph W., Des Moines, Iowa. Signal Device. No. 1,378,367; May 17; v. 286; p. 488.
Michel, Albert C., Granite City, Ill. Display-cabinet. No. 1,379,035; May 24; v. 286; p. 689.
Michel, Benjamin F., Denver, Colo. Match-box. No. 1,378,711; May 17; v. 286; p. 555.
Michel, William G., Niagara Falls, N. Y. Process and apparatus for making electrodes. No. 1,378,599; May 17; v. 286; p. 533.
Michelson, S. J., *et al.* (See Bennett, Harry J., assignor.)
Michigan Steel Tube Products Company. (See Berg, Richard O., assignor.)
Middelboe, Kristian, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Grinding-machine. No. 1,380,112; May 31; v. 286; p. 967.
Middleton, George L. (See Gatewood, William F., assignor.)
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Steam connection for hollow cores. No. 1,377,214; May 10; v. 286; p. 215.
Midwest Engine Company. (See Walt, Henry H., assignor.)
Miehle Printing Press and Manufacturing Company *et al.* (See White, Joseph, assignor.)
Miguet, Paul, assignor to Societe dite: Rochette Freres, St. Julien-Montricher, France. Preparation of pure alkaline aluminates. No. 1,376,563; May 3; v. 286; p. 35.
Militello, Dominick, Buffalo, N. Y. Plow-lifting mechanism for tractors. No. 1,376,894; May 3; v. 286; p. 98.
Miller, Clark W., Janesville, Wis. Pile-driver. No. 1,380,072; May 31; v. 286; p. 959.
Miller, Constantine G., assignor to Meaker Galvanizing Company, Chicago, Ill. Galvanizing-machine. No. 1,378,888; May 24; v. 286; p. 661.
Miller, Earl L., Overbrook, Kans. Timer-brush. No. 1,377,361; May 10; v. 286; p. 245.
Miller, Eli J., York, Pa. Nail holding and spacing device. No. 1,378,550; May 17; v. 286; p. 521.
Miller, Eli J., York, Pa. Knife director and guide-gage. No. 1,378,551; May 17; v. 286; p. 524.
Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,376,454; May 3; v. 286; p. 15.
Miller, George M., assignor, by mesne assignments, to Slaymaker Hardware Company, Lancaster, Pa. Shackle for padlocks. No. 1,379,120; May 24; v. 286; p. 705.
Miller, George W., Sacramento, Calif. Vending-machine. No. 1,377,781; May 10; v. 286; p. 325.
Miller, Harry E. and J. H. Jayne, Monmouth, Ill. Hog-trough. No. 1,378,263; May 17; v. 286; p. 469.
Miller, Josse L. (See Janney, W. E., Fiscel, and Miller.)
Miller, John A., Waukegan, assignor to Laurence R. Wilder, Chicago, Ill. Control-circuits for operating block-signaling devices and the like upon railways. No. 1,379,592; May 24; v. 286; p. 794.
Miller, John C., assignor to The Willys-Overland Company, Toledo, Ohio. Means for supporting automobiles in freight-cars. No. 1,379,773; May 31; v. 286, p. 902.
Miller, John J. A., Denver, Colo. Fuel-saving attachment for furnaces. No. 1,379,873; May 31; v. 286; p. 921.
Miller, John K., Marshall, Minn. Tractor-hitch. No. 1,379,874; May 31; v. 286; p. 921.
Miller, John Z., Indianapolis, Ind. Tilting-headlight construction. No. 1,376,962; May 3; v. 286; p. 111.
Miller, Louis G., Westmont borough, Pa. Car-reinforcement and door-hinge. No. 1,377,716; May 10; v. 286; p. 311.
Miller, Louis G., Westmont borough, Pa. Combined stiffener and car-door hinge. No. 1,377,717; May 10; v. 286; p. 311.
Miller, Louis P., and F. E. Johnston, Phoenixville, Pa. Box-taping machine. No. 1,379,469; May 24; v. 286; p. 771.
Miller, Paul J. (See Dubicki, K. S., and Miller.)
Miller, Robert N., Altoona, Pa. Signal device for miniature electric railways. No. 1,378,421; May 17; v. 286; p. 499.
Miller, Samuel J., Winter Haven, Fla. Tractor-propelled spraying apparatus. No. 1,377,847; May 10; v. 286; p. 338.
Miller, Valentine H., St. Louis, Mo. Adjustable brush-holder. No. 1,377,215; May 10; v. 286; p. 215.
Milliken, Foster, *et al.*, trustees. (See Milliken, Foster, assignor.)
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Reppiier, as trustees. Alloy. No. 1,377,089; May 3; v. 285; p. 135.
Milliken, Frank G., Enumclaw, Wash. Rail-securing device. No. 1,377,424; May 10; v. 286; p. 256.
Millis, Linn W., Kansas City, Mo. Damper-regulator. No. 1,379,832; May 31; v. 286; p. 914.
Millner, Isaac B., Washington, D. C. Hand-operated air-dash washer. No. 1,378,600; May 17; v. 286; p. 533.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-collecting device. No. 1,378,049; May 17; v. 286; p. 429.
Mills, Oscar L., Easton, Pa. Uniting alloy steel to carbon steel. No. 1,376,963; May 3; v. 286; p. 111.
Mills, William S., Trumbull, and H. E. Bisaillon, Bridgeport, Conn. Stop-motion device. No. 1,380,003; May 31; v. 286; p. 946.
Milnes, John, Jr., Port Richmond, N. Y. Builder's horse or trestle. No. 1,377,425; May 10; v. 286; p. 257.
Milnes, William. (See Tait, W. E., and Milnes.)
Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Amplifier. No. 1,378,712; May 17; v. 286; p. 555.
Milton, Ivan L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacturing inductance-coils. No. 1,378,969; May 24; v. 286; p. 677.
Milutin, Theodore A., Dearborn, Mich. Safety device for tractors. No. 1,377,362; May 10; v. 286; p. 245.
Milwaukee Gas Specialty Company. (See Rutz, Arnold O., assignor.)
Miner, William H. (See Geiger, William A., assignor.)
Miner, William H. (See Johnson, George A., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Mintz, Abraham, New York, N. Y. Ironing-board. No. 1,380,234; May 31; v. 286; p. 989.
Mitchell, Eugene G., Red Level, Ala. Car-wheel. No. 1,379,121; May 24; v. 286; p. 706.
Mitchell, Samuel. (See Syes, C. L., and Mitchell.)
Mittasch, Alwin. (See Bosch, C., Mittasch, and Beck.)
Mittelstaedt, George W., Morton Grove, assignor to Fly Escape Screen Company, Chicago, Ill. Fly-escape screen. No. 1,378,601; May 17; v. 286; p. 534.
Miyakawa, Kintaro, San Francisco, Calif. Shoe-fastener. No. 1,378,602; May 17; v. 286; p. 534.
Mladinich, Frank. (See De Tartas, A. R., and Mladinich.)
Mladinich, Frank, New York, N. Y. Motion-picture camera. No. 1,377,265; May 10; v. 286; p. 225.
Mobley, Henry G., Valley Mills, Tex. Automatic air and gas relief valve for oil-distributing systems. No. 1,379,309; May 24; v. 286; p. 741.
Mobley, Lewis K., New York, N. Y. Applying liquid antiseptics. No. 1,378,481; May 17; v. 286; p. 510.
Mock, James C., Detroit, Mich. Double-slip railway-switch. No. 1,377,216; May 10; v. 286; p. 215.
Mockridge, Whitney, London, England. Book and like support. No. 1,377,907; May 10; v. 286; p. 249.
Moe, Peter, Seattle, Wash. Cooking utensil. No. 1,380,302; May 31; v. 286; p. 1002.
Moell, John C., Wapakoneta, Ohio. Tie. No. 1,380,235; May 31; v. 286; p. 989.
Moeschl-Edwards Corrugating Company. (See Edwards, Christopher B., assignor.)
Mohney, Charles C., Clintonville, Pa. Power attachment for automobile hand-pumps. No. 1,376,718; May 3; v. 286; p. 64.
Mollan, Malcolm, Brooklyn, N. Y. Automatic stop for graphophones. No. 1,378,603; May 17; v. 286; p. 534.
Molloy, William, Chicago, Ill. Whisper-phone. No. 1,376,719; May 3; v. 286; p. 64.
Monitor Controller Company of Baltimore. (See Whittingham, George H., assignor.)
Monitor Stove Company, The. (See Wollenhaupt, Justus J., assignor.)
Montague, Harold E., Philadelphia, Pa. Flying-machine. No. 1,378,368; May 17; v. 286; p. 488.
Monte, Giovanni, Turin, Italy. Electric-heated thermo-siphon-radiator. No. 1,378,552; May 17; v. 286; p. 524.
Montgomery, Christopher J., Liverpool, England. Machine for making barrel-heads. No. 1,377,968; May 10; v. 286; p. 61.
Monti, Eudo, Turin, Italy. Concentrating grape-juice. No. 1,379,470; May 24; v. 286; p. 771.
Mood, George M., Charleston, S. C. Hand-oiler. No. 1,379,471; May 24; v. 286; p. 771.
Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)

Moon, Carl C., Westboro, Ohio. Motor. No. 1,378,264; May 17; v. 286; p. 469.

Moon, Freeman S., assignor to International Precipitation Company, Los Angeles, Calif. Recovering water-soluble material from furnace-gases. No. 1,377,363; May 10; v. 286; p. 245.

Mooney, Frank M., assignor to Formatan Syndicate, Montreal, Quebec, Canada. Conversion of chromate and bichromate of sodium or potassium to chromic sulfate. No. 1,379,578; May 24; v. 286; p. 791.

Moore, Edward T., Syracuse, N. Y., assignor to Westinghouse Electric and Manufacturing Company. System of pressure regulation. No. 1,376,455; May 3; v. 286; p. 15.

Moore, Herman E., Tallahassee, Fla. Pulling implement. No. 1,380,156; May 31; v. 286; p. 975.

Moore, James W., Norfolk, Va. Detachable sole. No. 1,377,908; May 10; v. 286; p. 350.

Moore, John A., assignor to The Mengel Company, Louisville, Ky. Machine for notching box-blanks and the like. No. 1,379,275; May 24; v. 286; p. 734.

Moore, John A., assignor to The Mengel Company, Louisville, Ky. Machine for sealing boxes or cartons. No. 1,379,276; May 24; v. 286; p. 735.

Moore, Joseph. (See Menser, Albert N., assignor.)

Moore, Julius C., Raleigh, N. C. Fluid-measuring device. No. 1,379,122; May 24; v. 286; p. 706.

Moore, Raymond G., Utica, N. Y., assignor to The Bassick Company, Bridgeport, Conn. Staff-lathe. No. 1,379,645; May 31; v. 286; p. 879.

Moore, Robert A., New York, N. Y. Automatic firearm. No. 1,376,456; May 3; v. 286; p. 15.

Moore, Thomas F., Dover, N. J. Trenching apparatus. No. 1,378,970; May 24; v. 286; p. 677.

Moore, William E., Pittsburgh, Pa. Electric regulator. No. 1,378,971; May 24; v. 286; p. 677.

Moore, William E., Milwaukee, Wis. Electric furnace. No. 1,378,972; May 24; v. 286; p. 677.

Moorhead, Otis B., San Francisco, Calif. Securing metallic members together. No. 1,379,036; May 24; v. 286; p. 689.

Moork, Alfred C., Chicago, Ill. Gas-burner. No. 1,380,004; May 31; v. 286; p. 946.

Moran, Edward J., *et al.* (See Sewell, Arthur L., assignor.)

Morden Frog & Crossing Works. (See Gibbs, Benedict T., Jr., assignor.)

More, George, Brooklyn, N. Y. Portage device. No. 1,380,073; May 31; v. 286; p. 959.

Morgan, James C., and C. S. Schroeder, New Brighton, N. Y., assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Freight-handling truck. No. 1,379,472; May 24; v. 286; p. 771.

Morgan, John, assignor to D. Murray, Melbourne, Victoria, Australia. Concrete or like building-block or slab. No. 1,377,718; May 10; v. 286; p. 311.

Morgan, John H., Detroit, Mich. Method of and means for forming articles of plastic material. No. 1,376,564; May 3; v. 286; p. 35.

Morgan, Millard F., Bailey, N. C. Horse-hitch. No. 1,378,482; May 17; v. 286; p. 510.

Morgan & Wright. (See Holmes, R., and Abbott, assignors.)

Mori, Teiji, New York, N. Y. Tire. No. 1,377,782; May 10; v. 286; p. 325.

Morison, Donald B., Hartlepool, England. Apparatus for condensing steam. No. 1,378,553; May 17; v. 286; p. 524.

Morral, William W., Morral, Ohio. Machine for butting ears of corn. No. 1,376,720; May 3; v. 286; p. 64.

Morris, Charles, Vancouver, British Columbia, Canada. Nut-blanching machine. No. 1,377,090; May 3; v. 286; p. 135.

Morris, Charles W., Youngstown, Ohio. Turn-up tool. No. 1,379,277; May 24; v. 286; p. 735.

Morris, Fields J., Durango, Colo. Bag-holder. No. 1,378,050; May 17; v. 286; p. 429.

Morris, Robert T., New York, N. Y. Melting apparatus. No. 1,379,200; May 24; v. 286; p. 720.

Morris, William R., assignor to The Universal Engineering Construction and Power Company, Boise, Idaho. Watermotor. No. 1,377,719; May 10; v. 286; p. 311.

Morrison, James, assignor to The Trailmobile Company, Cincinnati, Ohio. Fifth-wheel device. No. 1,377,138; May 3; v. 286; p. 144.

Morse, Mark A., Jr., assignor to W. H. Ward, New Orleans, La. Fifth-wheel. No. 1,377,020; May 3; v. 286; p. 122.

Mortimer, Charles G., East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y. Automatic sealing-machine. No. 1,378,889; May 24; v. 286; p. 662.

Moses, Frank D., Trenton, N. J. Gas-generating apparatus. No. 1,378,125; May 17; v. 286; p. 443.

Moses, Percival R. (See Johnston, Andrew L., Jr., assignor.)

Moses, William B., Brookline, assignor to Gray & Davis, Inc., Cambridge, Mass. Electric starting and lighting apparatus for automobiles. No. 1,380,113; May 31; v. 286; p. 967.

Mosheim, Albert S. (See Mosheim, Gustave and A. S.)

Mosheim, Gustave and A. S., East Orange, N. J. Powder-puff. No. 1,379,201; May 24; v. 286; p. 721.

Moss, Isidor, Brookline, Mass. Mount for snap-fasteners. No. 1,379,202; May 24; v. 286; p. 721.

Mossberg, Frank, Attleboro, Mass. Manufacturing metal rings. No. 1,377,266; May 10; v. 286; p. 225.

Mossman, James, Cincinnati, Ohio. Removable protecting-cap for knitting-needles and the like. No. 1,376,964; May 3; v. 286; p. 112.

Motor-Compressor Company, The. (See Spohrer, Gregory J., assignor.)

Motor Radiator & Manufacturing Corporation, The. (See Hromadko, Joseph A., assignor.)

Mott, Arthur H., Winston-Salem, N. C. Door-bolt. No. 1,377,091; May 3; v. 286; p. 135.

Mottier, Walter F., El Campo, Tex. Clutch and transmission mechanism. No. 1,377,498; May 10; v. 286; p. 271.

Moulin, René, Paris, France. Portable diffusion apparatus. No. 1,377,909; May 10; v. 286; p. 350.

Mouser, Minnie C., San Diego, Calif. Tatting-Hook. No. 1,379,930; May 31; v. 286; p. 932.

Mozur, Kasimer W. (See Mozur, Stanislaus J., assignor.)

Mozur, Stanislaus J., assignor to K. N. Mozur, Erie, Pa. Safety-valve. No. 1,376,565; May 3; v. 286; p. 35.

Muck, John, Milwaukee, Wis. Clothespin. No. 1,378,890; May 24; v. 286; p. 662.

Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)

Mueller, Charles F., Elizabeth, N. J. Screw-wrench. No. 1,376,721; May 3; v. 286; p. 64.

Mueller, Curt B., West Park, and H. Eisele, Cleveland, Ohio; said Eisele assignor to said Mueller. Shoe-spike guard. No. 1,379,646; May 31, v. 286; p. 879.

Mueller Metals Company. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau, assignors.)

Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Adjustable escutcheon. No. 1,377,597; May 10; v. 286; p. 289.

Muffly, Glenn, Chicago, Ill. Motor. No. 1,377,723; May 10; v. 286; p. 312.

Müllertz, André, Copenhagen, Denmark. Sterilization or pasteurization of liquids. No. 1,379,875; May 31; v. 286; p. 921.

Mullaly, Joseph H., Winnipeg, Manitoba, Canada. Collar attachment. No. 1,377,499; May 10; v. 286; p. 271.

Mullen, George W., Elmhurst, N. Y., assignor to H. B. Bishop, Summit, N. J. Recovering metallic constituents from a mixture thereof. No. 1,377,217; May 10; v. 286; p. 215.

Mullins, Cyrus B., jr., Rocky City, Okla. Game. No. 1,379,711; May 31; v. 286; p. 891.

Mullvain, E. E., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)

Multiple Storage Battery Co. (See Sturges, Norman D., assignor.)

Multipost Company. (See Schweiger, William F., assignor.)

Mumford, Russell W., New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del. Clarifying and decolorizing oils. No. 1,377,021; May 3; v. 286; p. 122.

Mundale, Clarence P., Seattle, Wash. Tire-mold. No. 1,379,203; May 24; v. 286; p. 721.

Munkel, Walter G., Anamosa, Iowa. Flush-tank and flush-valve therefor. No. 1,379,712; May 31; v. 286; p. 891.

Munro, Roy C., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline. No. 1,378,051; May 17; v. 286; p. 429.

Munson, William R., Sharon, Pa. Detachable rainproof top for baby-carriages. No. 1,377,910; May 10; v. 286; p. 350.

Muntean, Lazarus, Highland Park, Mich. Restaurant system. No. 1,377,969; May 10; v. 286; p. 361.

Munzer, William R., Emetta, Minn. Ax. No. 1,378,973; May 24; v. 286; p. 677.

Murdock, James A., Kentish Town, London, England. Pianoforte-soundboard. No. 1,377,218; May 10; v. 286; p. 216.

Murdock Manufacturing and Supply Co., The. (See Bart, Thomas E., assignor.)

Murnane, Daniel J., Chicago Heights, Ill. Frame structure. No. 1,376,895; May 3; v. 286; p. 98.

Murnin, John A., Columbus, Ohio. Lifting-jack. No. 1,378,265; May 17; v. 286; p. 469.

Murphy, Denis L., Hyannis, Mass. Adjustable jar or can opener. No. 1,380,236; May 31; v. 286; p. 989.

Murphy Door Bed Company. (See Dewey, Josiah A., assignor.)

Murphy Engineering Co. (See Murphy, Peter W., assignor.)

Murphy, John F., Louisville, Ky. Internal-combustion engine. No. 1,377,139; May 3; v. 286; p. 144.

Murphy, John H., New York, N. Y. Storage battery. No. 1,376,566; May 3; v. 286; p. 35.

Murphy, John W., Cambridge, Mass. Condensation-preventing device. No. 1,378,604; May 17; v. 286; p. 534.

Murphy, Peter W., Chicago, Ill. Assignor to Murphy Engineering Co., Detroit, Mich. Reversing mechanism. No. 1,379,774; May 31; v. 286; p. 902.

Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Internal-combustion engine. No. 1,379,775; May 31; v. 286; p. 902.

Murphy, Samuel P., Canastota, N. Y. Adjustable bed-table. No. 1,377,911; May 10; v. 286; p. 350.

Murphy, Walter P. (See Donsall, Charles D., assignor.)

Murphy, Walter P. (See Gilpin, Garth G., assignor.)

Murphy, Walter P., New York, N. Y. Hopper-car. No. 1,377,783; May 10; v. 286; p. 325.

Murray, Arthur T. (See Rosenthal, L. W., and Lang, assignors.)

Murray Company, The. (See Henry, Nelson B., assignor.)

Murray, Daniel. (See Morgan, John, assignor.)

Murray, George C. (See Cook, Roy J., assignor.)

Murray, John A. and R. S. Buchanan, Patton, Pa. Trolley-wheel guard. No. 1,376,722; May 3; v. 286; p. 64.

Musswitz, Paul H., Vallejo, Calif. Rotary pump. No. 1,378,891; May 24; v. 286; p. 662.

Myers, Charles W., Franklin, Pa. Tractor. No. 1,378,892; May 24; v. 286; p. 662.

Myers, Frank L. (See Johns, R. A., and Myers.)

Myers, John, Sterling, Ill. Silo-scaffold. No. 1,380,074; May 31; v. 286; p. 959.

Naamlooze Vennootschap Industrieele Maatschappij voorheen Noury & van der Lande. (See Sutherland, Egbert C., assignor.)

Nadel, Louis D. (See Catucci, P., and Nadel.)

Naemura, Tokuji, Sanchome, Kobe, Japan. Matting. No. 1,379,278; May 24; v. 286; p. 735.

Nagel, Harry C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resistance device. No. 1,378,126; May 17; v. 286; p. 443.

Nagel, Henry, Davenport, Iowa. Portable electric vaporizer. No. 1,378,266; May 17; v. 286; p. 470.

Nami, Joseph P., Cristobal, Canal Zone, Panama. Stirrup. No. 1,378,713; May 17; v. 286; p. 555.

Napier, Charles H., Macon, Ga. Motor-drive for target-throwing machines. No. 1,376,825; May 3; v. 286; p. 84.

Napier, Melvin J., Akron, Ohio. Ozonizer. No. 1,379,776; May 31; v. 286; p. 902.

National Aniline & Chemical Company. (See Susemihl, Theresa M., assignor.)

National Binding Machine Company. (See Mortimer, Charles G., assignor.)

National Can Company. (See Horvath, Geza, assignor.)

National Car Coupler Co. (See Eckhart, Marvin L., assignor.)

National Carbon Company. (See Haefele, Albert H., assignor.)

National Carbon Company. (See Hambuechen, Carl, assignor.)

National Carbon Company. (See Hazelett, Clarence W., assignor.)

National Carbon Company. (See Jones, Homer W., assignor.)

National Carbon Company. (See Spencer, Thomas, assignor.)

National Dairy Machine Company. (See Stettler, Gottfried, assignor.)

National Electrical Supply Company. (See Fearn, Richard L., Jr., assignor.)

National Folding Box Company. (See Devlin, Francis D assignor.)

National Paper Can Company. (See Hulbert, Edwin F., assignor.)

National Refining Corporation. (See Von Groeling, Albrecht F. G. C. P. J., assignor.)

National Refrigerators Company. (See Wirfs, Edward J., assignor.)

National Regulator Company. (See Larson, John M., assignor.)

National Sanitary Street System. (See Richardson, George J., assignor.)

Naugle, John J., Brooklyn, N. Y. Combination filter-press and drier. No. 1,377,022; May 3; v. 286; p. 122.

Neahr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Automatic shunt. No. 1,377,267; May 10; v. 286; p. 225.

Nebel, Albert, Brooklyn, N. Y. Radiator. No. 1,377,912; May 10; v. 286; p. 350.

Neff, Abner R., Los Angeles, Calif. Index-head. No. 1,377,720; May 10; v. 286; p. 312.

Neff, Oswald J., Easton, Pa. Window attachment. No. 1,380,237; May 31; v. 286; p. 990.

Neff, Paul R., Bucyrus, Ohio. Auxiliary spring. No. 1,377,913; May 10; v. 286; p. 350.

Negromanti, Antonangelo, Milan, Italy. Electrically heated coat. No. 1,379,356; May 24; v. 286; p. 750.

Neldner, Stephen W., Milwaukee, Wis. Tire-rim tool. No. 1,376,723; May 3; v. 286; p. 65.

Neldner, Theresa M., Milwaukee, Wis. Caster. No. 1,376,724; May 3; v. 286; p. 65.

Nelson, Bernard S., New Orleans, La. Lubricating device. No. 1,377,023; May 3; v. 286; p. 123.

Nelson, Carl A. (See Griffin, J. T., Nelson, and Campbell.)

Nelson, Charles R. (See Du Laney, James A., assignor.)

Nelson, De Witt, assignor to The Horton Manufacturing Company, Minneapolis, Minn. Link belt. No. 1,377,268; May 10; v. 286; p. 226.

Nelson, Leigh G. (See Megley, Harley J., assignor.)

Nelson, Walter L., Galva, Ill. Clutch-release catch. No. 1,378,714; May 17; v. 286; p. 556.

Nerger, Frederick, Chicago, Ill. Resilient heel. No. 1,376,965; May 3; v. 286; p. 112.

Nesmeyer, John R., Omaha, Nebr. Pulley-block. No. 1,376,457; May 3; v. 286; p. 15.

Ness, Syver H., Portland, Oreg. Cover-lifting device. No. 1,376,630; May 3; v. 286; p. 47.

Netter, Raphaël, assignor to M. C. Altmayer, New York, N. Y. Tire-protector. No. 1,378,605; May 17; v. 286; p. 534.

Nevin, Bernard, Toledo, Ohio. Rattler. No. 1,380,303; May 31; v. 286; p. 1002.

New, Edward A., Great Barrington, Mass., assignor to W. W. Nicoll, New York, N. Y. Magneto. No. 1,379,413; May 24; v. 286; p. 761.

New England Butt Company. (See Littlefield, Arlon, assignor.)

New Era Toy Manufacturing Company. (See Kern, Charles J., assignor.)

New Jersey Foundry & Machine Company. (See Hescock, E. N., and Smith, assignor.)

New Jersey Patent Company. (See Edison, Thomas A., assignor.)

Newbigin, Henry T., Newcastle-upon-Tyne, England. Pumping of viscous substances. No. 1,377,914; May 10; v. 286; p. 251.

Newbold, Harry, Herts, England. Placquet for eyeglasses. No. 1,390,005; May 31; v. 286; p. 946.

Newbold, William C., and G. E. Lentz, Cincinnati, Ohio. Transmission-band. No. 1,379,647; May 31; v. 286; p. 879.

Newell, Peter S. H., Leonia, N. J., assignor to The Diamond Toy Corporation, Wilmington, Del. Educational toy. No. 1,378,893; May 24; v. 286; p. 662.

Newman, Mary J., Fort Smith, Ark. Washing-machine. No. 1,380,238; May 31; v. 286; p. 990.

Newth, Basil, assignor to R. H. Barr, O. Bohrsmann, I. Henry, and A. Markell, Sydney, New South Wales, Australia. Mechanism for feeding blast-furnaces. No. 1,376,458; May 3; v. 286; p. 15.

Newsome, John, Sandersville, Ga. Washing-machine. No. 1,380,076; May 31; v. 286; p. 960.

Newton, Byron G., Syracuse, N. Y. Hydraulic transmission mechanism. No. 1,378,184; May 17; v. 286; p. 454.

Newton, Daniel L., and N. H. Anderson, Fullerton, Calif. Still. No. 1,376,631; May 3; v. 286; p. 48.

Newton, Frederick, Derby, England. Driving and control mechanism, particularly for planing-machines. No. 1,379,833; May 31; v. 286; p. 914.

Newton, George F., Kansas City, Mo. Adjustable rod-clamp. No. 1,378,267; May 17; v. 286; p. 470.

Newton, Richard T., New York, N. Y. Automobile-bumper. No. 1,379,414; May 24; v. 286; p. 761.

Newton, Richard T., New York, N. Y. Automobile-bumper. No. 1,380,239; May 31; v. 286; p. 990.

Nicholas, Lewis, Indianapolis, Ind. Low-water-signal apparatus for steam-boilers. No. 1,376,966; May 3; v. 286; p. 112.

Nicholas Power Company. (See Power, Nicholas, assignor.)

Nicholl, John S., assignor to Electric Boiler Corporation, Cambridge, Mass. Combined lavatory and water-heater. No. 1,378,185; May 17; v. 286; p. 454.

Nichols, Ernest F., New Haven, Conn. Circuit-closer. No. 1,376,967; May 3; v. 286; p. 112.

Nichols, Herbert, Holyoke, assignor to Draper Corporation, Hopedale, Mass. Needle-feeler. No. 1,380,157; May 31; v. 286; p. 975.

Nicholson, Benjamin L. (See Kean, E. A., and Nicholson.)

Nicoll, William W. (See New, Edward A., assignor.)

Niebel, Gottfried, New York, N. Y. Toy furniture set. No. 1,379,648; May 31; v. 286; p. 879.

Nielsen, Emanuel, assignor to Hamilton-Beach Mfg. Co., Racine, Wis. Variable-speed transmission. No. 1,380,006; May 31; v. 286; p. 946.

Nielsen, Hans J., San Francisco, Calif. Automatic propeller-governor for boats. No. 1,376,632; May 3; v. 286; p. 48.

Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Fuel feeding and distributing device for gas-producers. No. 1,376,567; May 3; v. 286; p. 35.

Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Rotary grate for gas-producers. No. 1,378,369; May 17; v. 286; p. 489.

Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Heat-exchange apparatus. No. 1,378,715; May 17; v. 286; p. 556.

Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Gas-washing apparatus. No. 1,378,716; May 17; v. 286; p. 556.

Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Air-saturating tower. No. 1,378,717; May 17; v. 286; p. 556.

Nies, Gershom J., Beaumont, Tex. Templet. No. 1,380,240; May 31; v. 286; p. 990.

Nikonow, John P., New York, N. Y., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn. Electric spotlight. (Reissue.) No. 15,102; May 10; v. 286; p. 367.

Nishi, Nagasumi. (See Nishi, Nagakata and N.)

Nishi, Nagakata and N., Berkeley, Calif. Thermal circuit-controller. No. 1,377,848; May 10; v. 286; p. 338.

Nissen, Peter N., London, England. Portable building. No. 1,377,500; May 10; v. 286; p. 271.

Nitrogen Corporation, The. (See Clancy, John C., assignor.)

Nitschman, Joseph. (See Ruoff, C., and Nitschman.)

Noah, Leroy H., assignor of one-fourth to J. E. Robeson and one-fourth to R. E. Teall, Palco, Kans. Traction-wheel. No. 1,376,896; May 3; v. 286; p. 99.

Noall, John. (See McClenathen, R., and Noall.)

Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Perforating-machine. No. 1,376,897; May 3; v. 286; p. 99.
Nodland, Jacob O., Chicago, Ill. Awning-support. No. 1,377,784; May 10; v. 286; p. 325.
Nolen, Owen, D., Lebanon, Tenn. Hay-perforating device. No. 1,376,568; May 3; v. 286; p. 36.
Noll, Henry, Queens, assignor to himself and J. W. Streeton, New York, N. Y. Two-tone double-piece dye goods and making same. No. 1,376,569; May 3; v. 286; p. 36.
Noonan, Albert S., assignor to Foss-Hughes Company, Philadelphia, Pa. Tire-chain-applying device. No. 1,378,606; May 17; v. 286; p. 535.
Norcross, William C., assignor to American Molding Machine Company, Terre Haute, Ind. Pattern-drawing machine. No. 1,378,186; May 17; v. 286; p. 454.
Nordfors, Conrad. (See Wood, H. A. W., and Nordfors.)
Norman, Edward R., Chicago, Ill. Packing-ring. No. 1,378,894; May 24; v. 286; p. 662.
Norman, Howard F., Newtonville, Mass. Trolley-pole head. No. 1,379,037; May 24; v. 286; p. 689.
Norman, Sterling E., Franklin, Mass. Liquid-dispenser. No. 1,379,357; May 24; v. 286; p. 751.
North, Frederick K., Chicago, Ill. Massaging device. No. 1,377,140; May 3; v. 286; p. 145.
North & Judd Manufacturing Company, The. (See Hancock, Horace G., assignor.)
Northrup, Edwin F., Princeton, assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J. Focus inductor-furnace. No. 1,378,187; May 17; v. 286; p. 455.
Northrup, Edwin F., Princeton, assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J. Ladle-heating by high-frequency currents. No. 1,378,188; May 17; v. 286; p. 455.
Northrup, Edwin F., Princeton, assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J. Method and apparatus for melting oxids, &c., without contamination. No. 1,378,189; May 17; v. 286; p. 455.
Northrup, Thomas A., Washington, Pa. Inserted pump for oil-wells. No. 1,378,268; May 17; v. 286; p. 470.
Norton, A. O. (See Gormley, Frank L., assignor.)
Norton, Charles L., Boston, Mass., assignor to Asbestos Shingle Company. Controlling the setting of cement products. No. 1,379,204; May 24; v. 286; p. 721.
Norton Company. (See Beecher, Milton F., assignor.)
Norton Company. (See Dodge, Herbert K., assignor.)
Norton Company. (See Johanson, P. and Francke, assignors.)
Norton Company. (See Larsson, Thure, assignor.)
Norton, Fred E., Worcester, Mass. Propulsion for submarine vessels. No. 1,380,304; May 31; v. 286; p. 1002.
Norton, John M., assignor to The Plymouth Gypsum Co., Fort Dodge, Iowa. Cutting-machine. No. 1,377,219; May 10; v. 286; p. 214.
Norton, Roxanna A., New York, N. Y. Dust-bag. No. 1,378,607; May 17; v. 286; p. 535.
Norsk Alkali A/S. (See Riiber, Claus N., assignor.)
Norwood, Harry G., assignor to W. Fuld, Baltimore, Md. Wheeled toy. No. 1,376,570; May 3; v. 286; p. 36.
Nottingham, Carl A., and C. Tuhey, Muncie, Ind., assignors, by mesne assignments, to American Nottingham Process Company. Apparatus for distillation. No. 1,379,876; May 31; v. 286; p. 922.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Making printing-plate matrices or molds, &c. No. 1,377,501; May 10; v. 286; p. 271.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Composite sheet. No. 1,377,502; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate. No. 1,377,503; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Electrotype printing-plate. No. 1,377,504; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Rubber-faced printing-plate. No. 1,377,505; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Metallic-backed printing-plate. No. 1,377,506; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Embossing-die. No. 1,377,507; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Composite plate. No. 1,377,508; May 10; v. 286; p. 272.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate. No. 1,377,509; May 10; v. 286; p. 72.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Matrix. No. 1,377,510; May 10; v. 286; p. 273.
Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate registration. No. 1,377,511; May 10; v. 286; p. 273.
Novotny, Emil E., Philadelphia, Pa. Composite sheet for making matrices. No. 1,377,512; May 10; v. 286; p. 273.
Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate matrix. No. 1,377,513; May 10; v. 286; p. 273.
Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate. No. 1,377,514; May 10; v. 286; p. 273.
Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Rectification of printing-plates. No. 1,377,515; May 10; v. 286; p. 273.
Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Manufacture of printing-plates. No. 1,377,516; May 10; v. 286; p. 273.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Method of and apparatus for molding plastic articles. No. 1,377,517; May 10; v. 286; p. 274.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate. No. 1,377,518; May 10; v. 286; p. 274.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate. No. 1,377,519; May 10; v. 286; p. 274.
Nunns, John R., Waterbury, Conn. Holder. No. 1,376,571; May 3; v. 286; p. 36.
Nurmi, Henry V. (See Tükkainen, Andrew, assignor.)
Nussbaum, George B., New Philadelphia, Ohio. Trolley. No. 1,378,554; May 17; v. 286; p. 524.
Nye, Alfred L., Gibson, N. Mex. Continuous-pressure gage. No. 1,377,220; May 10; v. 286; p. 216.
O. & W. Thum Company, The. (See Wagner, William J., assignor.)
Oaks, Charles F., Lovettville, Alberta, Canada. Safety shot-firer. No. 1,377,915; May 10; v. 286; p. 351.
Oathout, Charles E. (See Curtis, A. R., and Oathout.)
Obdyke, Benjamin P., Inc. (See Brown, J. W., and Hess, assignors.)
Obermaier, John A., Chicago, Ill. Relay. No. 1,376,633; May 3; v. 286; p. 48.
Ochoa, Maria, New York, N. Y. Camera. No. 1,377,916; May 10; v. 286; p. 357.
O'Connell, Daniel C., *et al.* (See Spirewka, John S., Jr., assignor.)
O'Connell, James E., *et al.* (See Spirewka, John S., Jr., assignor.)
O'Connor, Albert, Detroit, Mich. Nut-lock. No. 1,379,415; May 24; v. 286; p. 761.
O'Connor, Arthur P., Denver, Colo. Ladder attachment. No. 1,376,777; May 3; v. 286; p. 75.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber. No. 1,378,974; May 24; v. 286; p. 677.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway box-cars. No. 1,378,975; May 24; v. 286; p. 678.
O'Connor, Michael J., Bloomingdale, N. J. Vehicle-wheel. No. 1,378,823; May 17; v. 286; p. 576.
Odelberg, Axel S. W., assignor to Aktiebolaget Gustafsbergs Fabriks Inkessenter, Gustafsberg, Sweden. Machinery for the molding of pottery. No. 1,377,785; May 10; v. 286; p. 326.
Odell, William W., Urbana, Ill. Manufacturing water-gas. No. 1,379,038; May 24; v. 286; p. 690.
Odhner, Valentin J., Stockholm, Sweden. Transfer mechanism of calculating-machines. No. 1,377,269; May 10; v. 286; p. 226.
Odhner, Valentin J., Gottenborg, Sweden. Calculating-machine. No. 1,377,270; May 10; v. 286; p. 226.
Odmark, August E., Muskegon, Mich. Collapsible square. No. 1,377,917. May 10; v. 286; p. 352.
Ofeldt, Frank W., assignor to Packard Motor Car Company, Detroit, Mich. Vibration-damping device. No. 1,377,849; May 10; v. 286; p. 338.
Ogden, Ellsworth P. (See Owens, J. B., and Ogden.)
Ogden, John, Philadelphia, Pa. Sickle. No. 1,379,205; May 24; v. 286; p. 721.
Ogden, John E., Mountainville, N. Y. Adjustable-link door. No. 1,378,127; May 17; v. 286; p. 444.
Ogders, Ernest B. (See Hood, Lazarus S., assignor.)
O'Hanlon, Thomas, Co. Inc. (See Benjamin, Walter R., assignor.)
Ohara, Tomosuke, Tokyo, Japan. Urinal. No. 1,379,206; May 24; v. 286; p. 721.
Ohio Body & Blower Company, The. (See McGeorge, John, assignor.)
Ohio Brass Company. (See Brown, John R., assignor.)
Ohio Fuel Supply Company, The. (See Koch, G. T., and Stallkamp, assignors.)
Ohio Trailer Company, The. (See Ferris, William E., assignor.)
Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Wall-clock. No. 1,379,713; May 31; v. 286; p. 891.
Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Label-holder. No. 1,376,725; May 3; v. 286; p. 65.
Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Sheet-metal curtain. No. 1,378,976; May 24; v. 286; p. 678.
Öijerholm, Ludwig O., Eskilstuna, Sweden. Thimble attachment. No. 1,379,777; May 31; v. 286; p. 903.
Oklitz, Carl B., Elkhart, Ind. Hay-tedder. No. 1,377,271; May 10; v. 286; p. 226.
Olbon, John A., Paterson, assignor to Auto Safety Device Company, Union, N. J. Rocking-chair. No. 1,380,241; May 31; v. 286; p. 990.
Oldbury Electro-Chemical Company. (See Stamps, Frederick A., assignor.)
O'Leary, Marguerite V. (See Ramsey, George, assignor.)

O'Leary, Timothy. (See Johnston, William G., assignor.)
Oliver, Albert L., assignor to California Cap Company, Oakland, Calif. Electric blasting-cap. No. 1,378,269; May 17; v. 286; p. 470.
Oliver Chilled Plow Works. (See Altgelt, Herman E., assignor.)
Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
Oliver Chilled Plow Works. (See Paul, William L., assignor.)
Oliver, Paul R., Akron, Ohio. Fuse-holder. No. 1,380,242; May 31; v. 286; p. 991.
Oliver, Samuel E., Vancouver, British Columbia, Canada. Apparatus for collecting oleoresin. No. 1,379,358; May 24; v. 286; p. 751.
Olmsted, Orrin E. G., Denver, Colo. Nut-lock. No. 1,379,473; May 24; v. 286; p. 771.
Olson, Anton L., Welch, Minn. Garage-floor. No. 1,378,483; May 17; v. 286; p. 511.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Machine-tool. No. 1,378,370; May 17; v. 286; p. 489.
Olson, George S., Swift Current, Saskatchewan, Canada. Hasp. No. 1,377,426; May 10; v. 286; p. 257.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Picot edging for fabrics. No. 1,378,270; May 17; v. 286; p. 470.
One Fire Asphalt Plant Company. (See Wall, Marion P., assignor.)
O'Neal, John, St. Louis, Mo., and J. F. Haeppner, East St. Louis, Ill. Piston-ring. No. 1,376,898; May 3; v. 286; p. 99.
O'Neil, Rodolph S., London, England. Signaling the position of a ship's helm. No. 1,377,427; May 10; v. 286; p. 257.
Ono, Koh, New York, N. Y. Doll. No. 1,377,623; May 10; v. 286; p. 293.
Oppel, John V. (See Graff, F. W., and Oppel.)
Opsahl, Harry L., Minneapolis, Minn. Spark-plug tester. No. 1,378,484; May 17; v. 286; p. 511.
O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,379,207; May 24; v. 286; p. 721.
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Ordway, Dana L. (See Robinson, H. E., and Ordway.)
O'Riley, Leo J. (See Mencarelli, Herman R., assignor.)
Orr, William J., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Tennis-ball and making same. No. 1,376,778; May 3; v. 286; p. 75.
Örström, Gustaf. (See Ekström, G. C., Johnson, and Orstrom.)
Orth, Henry J. (See McCullough, William T., assignor.) (Reissue.)
Osborn, James H., Mount Vernon, Ill. Combination plumb-level. No. 1,380,243; May 31; v. 286; p. 991.
Osborn, Ralph, Randolph, Nebr. Lamp. No. 1,379,279; May 24; v. 286; p. 735.
Osborne, Clarence E., Portland, Oreg. Automatic air-valve for carbureters. No. 1,379,474; May 24; v. 286; p. 772.
Osman, Charles H., San Francisco, Calif. Vehicle-signal. No. 1,379,475; May 24; v. 286; p. 772.
Ostenberg, Pontus, San José, Calif. Pump mechanism. No. 1,379,579; May 24; v. 286; p. 792.
Oster, Matthew C., Roy, Mont. Gate and door operating mechanism. No. 1,380,077; May 31; v. 286; p. 960.
Osterberg, Frank A., Chicago, Ill. Serving-table. No. 1,380,007; May 31; v. 286; p. 946.
Ostrom, Freeland W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Filled-sack-sewing apparatus. No. 1,377,624; May 10; v. 286; p. 294.
O'Sullivan, Joseph E., North Madison, Ind. Valve-spring compressor and valve-grinding tool. No. 1,379,310; May 24; v. 286; p. 741.
O'Sullivan, Paul, Milwaukee, Wis. Muffler. No. 1,378,555; May 17; v. 286; p. 524.
Otis, Charles H., Orange, Conn. Key-ring chain. No. 1,380,244; May 31; v. 286; p. 991.
Ott, Frederick, Norristown, assignor, by mesne assignments, to A. T. Baker & Company, Inc., Manayunk, Pa. Pile fabric. No. 1,379,931; May 31; v. 286; p. 932.
Otte, George, Sand Springs, Mont. Additional pulley-rim. No. 1,379,280; May 24; v. 286; p. 735.
Otto, Henry J., Evansville, Ind. Tire-casing-repair tool. No. 1,380,008; May 31; v. 286; p. 947.
Otto, Michael W., Supply, Okla. Notice-indicator and message-receiver. No. 1,377,918; May 10; v. 286; p. 352.
Oulianine, Serge, Sydenham, London, England. Signaling apparatus. No. 1,377,521; May 10; v. 286; p. 274.
Overlander, Jacob A., New York, N. Y. Multiple tire-valve. No. 1,376,968; May 3; v. 286; p. 112.
Overmyer, Charles G., Hartford City, Ind. Heat-alarm. No. 1,380,009; May 31; v. 286; p. 947.
Owen, Ira J., and B. J. Bouwmeester, assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Dust-bag structure for vacuum-cleaners. No. 1,377,721; May 10; v. 286; p. 312.
Owen, James E., Edgely, N. D. Wrench. No. 1,377,428; May 10; v. 286; p. 257.
Owens, John, Kingston, Iowa. Grease-gun. No. 1,379,281; May 24; v. 286; p. 735.
Owens, John B., Zanesville, Ohio. Means for cooling tunnel-kilns. No. 1,377,522; May 10; v. 286; p. 274.
Owens, John B., Metuchen, N. J. Baffle for combustion-chambers of tunnel-kilns. No. 1,379,123; May 24; v. 286; p. 706.
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Owens, John B., Zanesville, and E. P. Ogden, Columbus, Ohio. Combustion-chamber for tunnel-kilns. No. 1,378,190; May 17; v. 286; p. 455.
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Ozone Company of America. (See Gest, William E., assignor.)
P & M Company, The. (See Berkeley, Laurence J., assignor.)
P & M Company, The. (See Warr, Harold G., assignor.)
Pacific Coast Borax Company. (See Hecker, George, assignor.)
Package Machinery Company. (See Smith, Elmer L., assignor.)
Packard, Joseph S., Brooklyn, N. Y. Time hand-stamp. No. 1,377,786; May 10; v. 286; p. 326.
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Ofeldt, Frank W., assignor.)
Packard Motor Car Company. (See Stout, William B., assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Page, John W., Chicago, Ill. Excavating-shovel. No. 1,379,311; May 24; v. 286; p. 742.
Page, Louis A., assignor of one-half to E. B. Evans, Providence, R. I. Safety-catch. No. 1,376,899; May 3; v. 286; p. 99.
Page, Stephen E., Brooklyn, assignor to United Concrete Pipe Co., New York, N. Y. Pipe-joint. No. 1,377,024; May 3; v. 286; p. 123.
Paget-Cooke, Henry, *et al.*, executors. (See Aveline, Georges, assignor.)
Paige, Arthur E., Philadelphia, Pa. Spring-wheel. No. 1,376,726; May 3; v. 286; p. 65.
Palé, Paul, Los Angeles, Calif. Mechanical movement. No. 1,378,191; May 17; v. 286; p. 455.
Pancoast, William G., and W. J. Grotenhuis, Chicago, assignors to Bifex Products Company, Waukegan, Ill. Attaching-bracket. No. 1,379,778; May 31; v. 286; p. 903.
Pando, Adolfo F., Buenos Aires, Argentina. Stripping and husking machine. No. 1,379,208; May 24; v. 286; p. 722.
Panes, Isidore, New York, N. Y. Brassière. No. 1,379,416; May 24; v. 286; p. 761.
Panoulias, Panayiotis. (See White, George, assignor.)
Paoli, Cesare, assignor of one-half to G. F. Gillespie, Los Angeles, Calif. Finishing-wheel. No. 1,377,598; May 10; v. 286; p. 289.
Paragon Machine Tool & Manufacturing Company, The. (See Thiemer, William H., assignor.)
Parent, James A., assignor of one-half to T. S. Richard, Detroit, Mich. Gas-pressure-reducing device. No. 1,377,970; May 10; v. 286; p. 361.
Park, Young N., Dinuba, Calif. Fishing-rod. No. 1,377,787; May 10; v. 286; p. 326.
Parker, Charles W. (See Johnson, Charley, assignor.)
Parker, Howell P., *et al.* (See Brown, Theophilus M., assignor.)
Parker, Orrel A., Cleveland, Ohio. Automobile-wheel. No. 1,376,826; May 3; v. 286; p. 85.
Parker Rust-Roof Company. (See Allen, William H., assignor.)
Parkes, Bertrand A., Philadelphia, Pa. Drying-machine. No. 1,379,932; May 31; v. 286; p. 932.
Parks, Allison H., Yakima, Wash. Vegetable-grader. No. 1,379,715; May 31; v. 286; p. 892.
Parks, Bros. & Rogers. (See Forsell, Frans E., assignor.)
Parks, Charles F., Fairmount, Ind. Boat-propelling device. No. 1,379,933; May 31; v. 286; p. 932.
Parks, Harry S., Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y. Water-level-indicator instrument. No. 1,379,716; May 31; v. 286; p. 892.
Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Antitheft device for automobiles. No. 1,380,010; May 31; v. 286; p. 947.
Parmley, John, Paterson, N. J. Hat-brim stiffener. No. 1,378,977; May 24; v. 286; p. 678.
Parnall, George G. (See Bolas, Harold, assignor.)
Parnell, Walter H., Jr., Brooklyn, N. Y. Automatically-regulated pendulum. No. 1,378,824; May 17; v. 286; p. 576.
Parr, Albert, assignor of one-half to F. H. Ahl, Baltimore, Md. Nipple-clasp. No. 1,379,476; May 24; v. 286; p. 772.
Parson, Eleanor D., Pinehurst, N. C. Baby-harness. No. 1,377,919; May 10; v. 286; p. 352.
Parsons, C. A., S. S. Cook, A. Q. Carnegie, J. Ford, and M. Bone, Newcastle-upon-Tyne, England; said Cook, Carnegie, Ford, and Bone assignors to said Parsons. Die. No. 1,379,717; May 31; v. 286; p. 892.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-on-Tyne, England; said Cook and Douglas assignors to said Parsons. Geared-turbine system. No. 1,377,850; May 10; v. 286; p. 338.

Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-on-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared-turbine systems. No. 1,377,851; May 10; v. 286; p. 338.

Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Means for making toilet-paper rolls. No. 1,379,718; May 31; v. 286; p. 892.

Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Suspension device for paper-packages and the like. No. 1,379,719; May 31; v. 286; p. 892.

Partington, James R., London, England. Oxidation of ammonia. No. 1,378,271; May 17; v. 286; p. 471.

Partonnar, Ora L., Kansas City, Mo. Turntable-rack for ovens. No. 1,380,078; May 31; v. 286; p. 960.

Partzschefeld, Louis, Jr., New York, N. Y. Puttyless steel skylight. No. 1,379,359; May 24; v. 286; p. 751.

Paschke, Charles H., Buffalo, N. Y. Bracket. No. 1,379,934; May 31; v. 286; p. 933.

Patent Butter Company, The. (See Hart, L. J., and White, assignors.)

Patent Button Company, The. (See White, Franklin R., assignor.)

Paton, Robert J., Bedford Park, London, England. Lubricating means. No. 1,379,282; May 24; v. 286; p. 736.

Patterson, John W., Oklahoma, Okla. Folding bed for automobiles. No. 1,377,852; May 10; v. 286; p. 339.

Patterson, Thomas S., Rosemont, assignor to F. B. Hammett, Philadelphia, Pa. Extractor. No. 1,378,608; May 17; v. 286; p. 532.

Paul, William L., San Francisco, Calif., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,377,025; May 3; v. 286; p. 123.

Paulman, Henry, Glastonbury, Conn. Cutter for knitting-machines. No. 1,379,720; May 31; v. 286; p. 893.

Paulsen, Frederick, Kansas City, Mo. Pneumatic-tire core. No. 1,379,834; May 31; v. 286; p. 914.

Paulus, Charles F., East Orange, N. J. Percussion-cap detonator. No. 1,378,272; May 17; v. 286; p. 471.

Pavlik, John J., Jr., New Haven, Conn. Safety key-ring hook. No. 1,377,724; May 10; v. 286; p. 312.

Paxton, Clifford M., Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation. Gyroscopic device and method. No. 1,380,335; May 31; v. 286; p. 1008.

Paxton, Clifford M., Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation. Gyroscopic device and method. No. 1,380,336; May 31; v. 286; p. 1009.

Paxton Gyroscope Corporation. (See Paxton, Clifford M., assignor.)

Payne, Pearson M. (See Payne, William H. and P. M.)

Payne, William H. and P. M., Washington, Pa. Overhead valve. No. 1,377,523; May 10; v. 286; p. 274.

Peacock, Samuel, assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va. Coating steel sheets with aluminum. No. 1,378,052; May 17; v. 286; p. 429.

Pearson, James W., near Elk Grove, Calif. Combination-tool. No. 1,377,920; May 10; v. 286; p. 352.

Pearson, John E., Mimosa, N. C. Aeroplane. No. 1,378,895; May 24; v. 286; p. 663.

Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,378,609; May 17; v. 286; p. 535.

Peck, Charles B., Batavia, N. Y. Curtain-window. No. 1,380,245; May 31; v. 286; p. 991.

Pedersen, Nils Borregaard, via Sarpsborg, Norway. Separating solid particles from suspension. No. 1,376,459; May 3; v. 286; p. 16.

Pedigo, John L. (See Gillenwater, C. T., and Pedigo.)

Peebles, Frank W. L., assignor to L. Ehrlich, St. Louis, Mo. Lock. No. 1,377,625; May 10; v. 286; p. 294.

Peiler, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-conveying apparatus. No. 1,379,593; May 24; v. 286; p. 794.

Peiler, Karl E., West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-severing. No. 1,379,594; May 24; v. 286; p. 794.

Pelc, Frank and S., McDonald, Pa. Garbage-box. No. 1,380,011; May 31; v. 286; p. 947.

Pelc, Stefania. (See Pelc, Frank and S.)

Peltier, Charles G., Ontonagon, Mich. Watering-fountain. No. 1,378,053; May 17; v. 286; p. 429.

Pelton, Herbert E., Los Angeles, Calif. Machine for folding sheet material. No. 1,376,969; May 3; v. 286; p. 113.

Pelton Water Wheel Company, The. (See Doble, William A., assignor.)

Pelton Water Wheel Company. (See Hutchinson, E. C., and Anderson, assignors.)

Penberthy Injector Company. (See McClymont, Bryce W., assignor.)

Pendergraft, Ewell W., Vicksburg, Miss. Sash attachment. No. 1,378,718; May 17; v. 286; p. 557.

Penfold, William J., Brunswick, Victoria, Australia. Manufacture of serums from animals, excluding man. No. 1,378,896; May 24; v. 286; p. 663.

Pennewell, John D., Kansas City, Mo. Tent. No. 1,377,788; May 10; v. 286; p. 326.

Penney, Harold D., Pelham, and J. E. Davidson, assignors to Powers Accounting Machine Company, New York, N. Y. Electrical non-stop card-tabulator printer. No. 1,376,572; May 3; v. 286; p. 36.

Pennington, Harry R., Kansas City, Mo. Electric welding apparatus and regulating the same. No. 1,378,192; May 17; v. 286; p. 456.

Penny, Lonnie T., Raleigh, N. C. Signal. No. 1,377,520; May 10; v. 286; p. 274.

Penny, Walter B., Columbus, Ohio. Saw-filing machine. No. 1,376,634; May 3; v. 286; p. 48.

Penrod, William A., Dayton, Ohio. Cleaning device. No. 1,376,779; May 3; v. 286; p. 75.

Penrose, Edward R., Logansport, Ind. Lifting-jack. No. 1,377,026; May 3; v. 286; p. 123.

Penter, Eli E., assignor of one-fifth to C. K. Seibert, Detroit, Mich. Internal-combustion engine. No. 1,377,789; May 10; v. 286; p. 326.

Pentland, Robert, Jacksonville, Fla. Perpetual calendar. No. 1,377,429; May 10; v. 286; p. 257.

Pentz, Florence L. and J. B., New York, N. Y. Direction-indicator for air and marine craft. No. 1,376,727; May 3; v. 286; p. 65.

Pentz, James B. (See Pentz, Florence L. and J. B.)

Pentz, James B., New York, N. Y. Sterilizing surgical instruments and other articles. No. 1,377,725; May 10; v. 286; p. 313.

Pentz, James B., New York, N. Y. Sterilizer. No. 1,377,726; May 10; v. 286; p. 313.

Peppers, Jerry C., New Orleans, La. Rail-joint. No. 1,377,272; May 10; v. 286; p. 226.

Perin, Charles P. (See Eustis, Frederic A., assignor.)

Perin, George, Syracuse, N. Y. Movable and adjustable study-chair. No. 1,377,599; May 10; v. 286; p. 289.

Perkins, Earl R., Manitowish, Wis. Luggage-carrier. No. 1,378,610; May 17; v. 286; p. 536.

Perkins Glue Company. (See Grosvenor, William M., assignor.)

Perkins Glue Company. (See Perkins, J. G. B., and Stryker, assignors.)

Perkins Glue Company. (See Williams, F. S., Perkins, and Stryker, assignors.)

Perkins, James G. B. (See Williams, F. S., Perkins, and Stryker.)

Perkins, James G. B., and J. B. B. Stryker, Lansdale, Pa., assignors to Perkins Glue Company. Making vegetable glue. No. 1,378,128; May 17; v. 286; p. 444.

Perkins, Laurence M. (See Hellmund, R. E., and Perkins.)

Perrings, John A., Springfield, Ill. Chinch-bug killer. No. 1,377,273; May 10; v. 286; p. 227.

Perry, John J., Bosworth, Mo. Sand-excluder. No. 1,379,477; May 24; v. 286; p. 772.

Perry, Thomas O., Oak Park, Ill. Heat-regulator. No. 1,378,556; May 17; v. 286; p. 525.

Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centering device. No. 1,379,935; May 31; v. 286; p. 933.

Peters, Charles L. (See Tufts, J. W., and Peters.)

Peters, Edward M. Medford, and P. Vilardo, Somerville, Mass. Toothbrush container. No. 1,380,240; May 31; v. 286; p. 991.

Peters, Jacob H., Evansville, Ind. Kitchenola. (Reissue.) No. 15,106; May 17; v. 286; p. 578.

Peters Machine & Manufacturing Company, The. (See Thiemer, William H., assignor.)

Peters, William. (See Cates, C. S., and Peters.)

Peterson, Ewart E., Seattle, Wash. Rock-drilling machine. No. 1,379,283; May 24; v. 286; p. 736.

Peterson, Henry, Dunkirk, Mont. Sadiron. No. 1,377,971; May 10; v. 286; p. 362.

Peterson, Niels, St. Anthony, Idaho. Antifreeze headgate. No. 1,377,921; May 10; v. 286; p. 352.

Peterson, Olef E., Idaho Falls, Idaho. Rotary engine. No. 1,378,897; May 24; v. 286; p. 663.

Peterson, Per A., New York, N. Y. Toy rowboat. No. 1,376,827; May 3; v. 286; p. 85.

Peth, Herman W., assignor to Peth Pressing Process, Inc., Rochester, N. Y. Pressing. No. 1,379,312; May 24; v. 286; p. 742.

Peth Pressing Process, Inc. (See Peth, Herman W., assignor.)

Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,012; May 31; v. 286; p. 948.

Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,013; May 31; v. 286; p. 948.

Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,014; May 31; v. 286; p. 948.

Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,015; May 31; v. 286; p. 948.

Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,380,016; May 31; v. 286; p. 948.

Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,017; May 31; v. 286; p. 949.

Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,380,018; May 31; v. 286; p. 949.

Pettersson, Bengt A. (See Blomberg, K. G., and Pettersson.)

Petterson, Bertill C., Memphis, Tenn. Window-guard. No. 1,378,378; May 17; v. 286; p. 490.

Pettit, Charles A., St. Louis, Mo. Phonograph. No. 1,377,027; May 3; v. 286; p. 123.

Pettis, John G., Chicago, Ill. Torch. No. 1,376,828; May 3; v. 286; p. 85.

Petty, George B., Evanston, Ill. Flying toy. No. 1,378,193; May 17; v. 286; p. 456.

Petty, Walter M., assignor to Service Motor Truck Company, Wabash, Ind. Motor-vehicle spring. No. 1,377,430; May 10; v. 286; p. 258.

Pewther, Judson C., Denver, Colo. Folding table. No. 1,379,284; May 24; v. 286; p. 736.

Pewther, Judson C., Denver, Colo. Foldable article and joint therefor. No. 1,379,285; May 24; v. 286; p. 736.

Pewther, Judson C., Denver, Colo. Folding cot. No. 1,379,286; May 24; v. 286; p. 736.

Pexton, Sidney A. (See Blessing, W., Howard, and Pexton.)

Pfeifer, John, assignor of one-third to C. L. Friermood, Springfield, Ohio. Direction-signal for motor-vehicles. No. 1,379,835; May 31; v. 286; p. 914.

Pfeil, Rudolph, Jr., Milwaukee, Wis. Fire-extinguisher. No. 1,377,431; May 10; v. 286; p. 258.

Pfanze, Charles F., St. Louis, Mo. Paper-feeding mechanism. No. 1,378,194; May 17; v. 286; p. 456.

Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Thumb-brake for fishing-reels. No. 1,379,692; May 31; v. 286; p. 887.

Phaneuf, Toussaint, Newport News, Va. Cooker or lunch-box. No. 1,377,092; May 3; v. 286; p. 136.

Phelps, James C., Springfield, Mass., deceased; C. W. James, Jr., administrator. Pipe-cap for electric conduits. No. 1,378,195; May 17; v. 286; p. 456.

Phelps, Sebring L., Wilmette, Ill. Electric stove. No. 1,376,829; May 3; v. 286; p. 85.

Philadelphia Textile Machinery Company, The. (See Schwartz, Walter M., assignor.)

Philip, Robert S., Los Angeles, Calif. Inking mechanism for printing-presses. No. 1,379,649; May 31; v. 286; p. 879.

Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Folding door. No. 1,377,626; May 10; v. 286; p. 294.

Phillips, John H., Chicago, Ill. Anchor-drill bolt. No. 1,379,209; May 24; v. 286; p. 722.

Phillips, John H., Chicago, Ill. Anchor-shell drill. No. 1,379,210; May 24; v. 286; p. 722.

Phillips, Robert L. (See Hoil, Tobias, assignor.)

Phonoharp Company, The. (See Ballard, Harrie A., assignor.)

Picco, Giovanni, New York, N. Y. Life-saving apparatus. No. 1,378,273; May 17; v. 286; p. 471.

Pickens, Andrew T., St. Louis, Mo. Pad for attaching valves to tires. No. 1,376,970; May 3; v. 286; p. 113.

Pickering, Raymond B., Alameda, Calif. Blowpipe apparatus. No. 1,379,360; May 24; v. 286; p. 751.

Pieper, Alphonse F. (See Pieper, O. H. and A. F.)

Pieper, Henri, Liege, Belgium. Air-brake. No. 1,376,573; May 3; v. 286; p. 37.

Pieper, Oscar H. and A. F., Rochester, N. Y. Dental-engine bracket. No. 1,377,432; May 10; v. 286; p. 258.

Pieper, Oscar H. and A. F., Rochester, N. Y. Dental cuspidor. No. 1,377,433; May 10; v. 286; p. 258.

Pierce, George L., Brooklyn, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J. Football-shoe. No. 1,376,635; May 3; v. 286; p. 48.

Pierce Wrapping Machine Company. (See Stevens, William C., assignor.) (Reissue.)

Piercy, Jacob F., Spokane, Wash. Pump for pumping and agitating cyanid and ore solutions. No. 1,376,574; May 3; v. 286; p. 37.

Piette, Olivier, Paris, France, assignor to Société Anonyme Des Fours A Coke Semet-Solvay & Peitte. Horizontal coking-oven. No. 1,378,129; May 17; v. 286; p. 444.

Piette, Olivier; Brussells, Belgium, assignor to The Société Franco-Belge De Fours A Coke, Paris, France. Heat-recuperator for air or gas. No. 1,378,130; May 17; v. 286; p. 444.

Piggins, William S., Detroit, Mich. Concrete construction. No. 1,380,324; May 31; v. 286; p. 1006.

Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)

Pike Manufacturing Company. (See Eaton, Malvern A., assignor.)

Pike, William A., Pittsfield, Mass. Clip for strengthening cardboard boxes or cartons. No. 1,376,636; May 3; v. 286; p. 48.

Pitney, Arthur H., Wilmette, Ill., assignor to Pitney-Bowes Export Corporation, Stamford, Conn. Inking mechanism. No. 1,377,853; May 10; v. 286; p. 339.

Pitney-Bowes Export Corporation. (See Pitney, Arthur H., assignor.)

Pittman, Reinhart W., assignor to Alston Saw & Steel Company, New York, N. Y. Apparatus for refinishing or retouching the teeth of saw-blades. No. 1,378,611; May 17; v. 286; p. 536.

Pittsburgh Plate Glass Company. (See Brown, Christopher assignor.)

Pittsburgh Plate Glass Company. (See Slinghuff, Harry G., assignor.)

Pittsburgh Train Control Company. (See Gray, G. B., and Williamson, assignors.)

Pittsburgh Wire Rope Company. (See Anderson, Albin E., assignor.)

Platto, Frederick, Brewerton, N. Y. Motor-loading machine. No. 1,379,039; May 24; v. 286; p. 690.

Plettner, Otto L., and W. H. Lowe, assignors to The Continental Tractor Company, Continental, Ohio. Tractor-plow. No. 1,380,196; May 17; v. 286; p. 456.

Plymouth Gypsum Co., The. (See Norton, John M., assignor.)

Plymouth Phonograph Parts Co. (See Trotter, George C., assignor.)

Pneumatic Process Flotation Company. (See Towne, R. S., and Flinn, assignors.)

Pneumatic Scale Corporation. (See Robinson, George A., assignor.)

Pneumercator Company. (See Parks, Harry S., assignor.)

Poberejsky, Jacques. (See Malhomme, Maurice R., assignor.)

Poehlmann, Andrew T., Catonsville, Md. Address device. No. 1,376,900; May 3; v. 286; p. 99.

Pollock, John W., Sawtelle, Calif. Concentrator. No. 1,379,417; May 24; v. 286; p. 761.

Pomeroy, Percy W., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,376,460; May 3; v. 286; p. 16.

Ponsonby, Amos A., Scranton, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,379,693; May 31; v. 286; p. 888.

Pool, Alice L. (See Pool, James C. P., assignor.)

Pool, James C. P., assignor of one-third to A. L. Pool, Brooklyn, N. Y. Method and apparatus for deriving mechanical power from tides and waves. No. 1,377,163; May 3; v. 286; p. 149.

Poole, Clifford O., Cobden, Ill. Tire-nut-turning device. No. 1,377,028; May 3; v. 286; p. 124.

Poole, Clifford O., Cobden, Ill. Wrench. No. 1,378,719; May 17; v. 286; p. 557.

Poole, Robert M., Mount Gambier, South Australia, and H. F. Davis, Brighton, Victoria, Australia. Washing or scouring wool. No. 1,377,790; May 10; v. 286; p. 326.

Popowich, John, Passaic, N. J. Vehicle-signal. No. 1,379,211; May 24; v. 286; p. 722.

Popper, Joseph, Brooklyn, assignor of one-half to Baird-Daniels Co., Inc., New York, and one-half to Mrs. E. H. Popper, Brooklyn, N. Y. Amusement device. No. 1,377,221; May 10; v. 286; p. 206.

Popper, Mrs. Ruby H., *et al.* (See Popper, Joseph, assignor.)

Porter, Harry F., assignor to Pyrolectric Instrument Co., Trenton, N. J. Control apparatus. No. 1,377,274; May 10; v. 286; p. 227.

Porter, Herman P., Jacksonville, Fla. Attachment for window-sashes. No. 1,376,637; May 3; v. 286; p. 49.

Porter, John K. (See Emrick, B. R., and Porter.)

Posa, Emit M., Burleson, Tex. Air-storage-tank liquid-dispensing device. No. 1,377,922; May 10; v. 286; p. 352.

Posa, Emit M., Burleson, Tex. Compressed-air-feed liquid-container. No. 1,377,923; May 10; v. 286; p. 353.

Post, Clifford W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for the treatment of articles with heat. No. 1,379,595; May 24; v. 286; p. 795.

Post, Truman W., Providence, R. I., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,376,575; May 3; v. 286; p. 37.

Post, Truman W., Providence, R. I., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,376,576; May 3; v. 286; p. 37.

Potash Extraction Corporation. (See Glaeser, Walter, assignor.)

Potschner, Karl, Dover, Ohio. Commode-seat cover. No. 1,377,791; May 10; v. 286; p. 327.

Potter, Washington M., Freedom, Pa. Lunch kit. No. 1,380,019; May 31; v. 286; p. 949.

Potts, George C., Chicago, Ill. Automobile-turntable. No. 1,378,898; May 24; v. 286; p. 663.

Poulsen, Oscar, *et al.*, executors. (See Krogh, Ferdinand W.)

Pouvalismith Corporation. (See Smith, Grant E., assignor.)

Powell, Allie B., Philadelphia, Pa. Hair-curler. No. 1,376,728; May 3; v. 286; p. 65.

Power Alcohol Limited. (See Le Petit, Charles, assignor.)

Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Film-lubricating device. No. 1,377,727; May 10; v. 286; p. 313.

Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Lamp for projecting apparatus. No. 1,377,728; May 10; v. 286; p. 313.

Powers Accounting Machine Company. (See Lasker, William W., assignor.)

Powers Accounting Machine Company. (See Penney, H. D., and Davidson, assignors.)

Powers, John N., assignor to United States Ordnance Company, Washington, D. C. Demountable rim for automobile-wheels. No. 1,379,418; May 24; v. 286; p. 761.

Pownall, Henry D., Canton, Ohio. Ice-machine compressor. No. 1,379,694; May 31; v. 286; p. 888.

Pragst, Ernest W., Schenectady, N. Y., assignor to General Electric Company. Electrical system. No. 1,378,557; May 17; v. 286; p. 525.

Prassone, Eugenio, and L. Avorio, Rome, Italy. Observation kite-balloon. No. 1,377,924; May 10; v. 286; p. 353.

Pratt, Lewis M., assignor of one-half to R. A. Medlin, Eldorado, Kans. Catch for screen-doors and the like. No. 1,379,040; May 24; v. 286; p. 690.

Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Co. Hydraulic-pipe joint. No. 1,378,054; May 17; v. 286; p. 429.

Precision Metal Workers. (See Grunwald, Albert C., assignor.)

Preiel, Nicholas. (See Wyman, George S., assignor.)

Premier Motor Corporation of America. (See Taylor, John S., assignor.)

Premier Warm Air Heater Company. (See Wood, Harry L., assignor.)

Preo, John L. (See Henne, L., and Preo.)

Press, John. (See Reichmann, F. J., and Press.)
Pressed Steel Manufacturing Company, The. (See Sisson, Vinton E., assignor.)
Prest, Austin H., Los Angeles, Calif. Rocking-chair. No. 1,377,600; May 10; v. 286; p. 289.
Prest-O-Lite Company, The. (See Root, Howard C., assignor.)
Preston, Clarence S., San Diego, Calif. Vehicle-tire. No. 1,377,627; May 10; v. 286; p. 294.
Price, Charles S., Denver, Colo. Shell-fish scraper. No. 1,380,247; May 31; v. 286; p. 991.
Price, Joseph H., Cape Girardeau, Mo. Automobile-lock. No. 1,377,157; May 3; v. 286; p. 148.
Price, Sidney L., London, England. Device for starting internal-combustion engines. No. 1,379,361; May 24; v. 286; p. 751.
Price, William G., Yakima, Wash. Box-making bench. No. 1,378,899; May 24; v. 286; p. 663.
Priest, James V., Los Angeles, Calif. Loose-tread traction-wheel. No. 1,378,131; May 17; v. 286; p. 444.
Priestley, Charles H., Elizabeth, N. J. Electric furnace. No. 1,380,248; May 31; v. 286; p. 992.
Pritz, Eric M., Jackson, Ohio. File. No. 1,379,779; May 31; v. 286; p. 903.
Probst, John P., Marion, Ohio. Filtering. No. 1,378,274; May 17; v. 286; p. 471.
Process Company, The. (See Coast, John W., Jr., assignor.)
Process Engineers. (See De Cew, Judson A., assignor.)
Prochazke, Otto, Detroit, Mich. Illuminated house-number. No. 1,379,780; May 31; v. 286; p. 903.
Prose, Harrison D., Macksville, Kans. Beet-topper. No. 1,376,461; May 3; v. 286; p. 16.
Protective Signal Manufacturing Company, The. (See Neahr, Will C., assignor.)
Protecto Pump Company, The. (See Hatmaker, William T., assignor.)
Prouty, Enoch, Arcadia, Fla. Copy-holder. No. 1,376,612; May 17; v. 286; p. 536.
Pryor, John T. (See Dix, H. S., Pryor, and Coffey.
Publow, Henry L. (See Reed, H. S., and Publow.)
Pulliam, Oswald S., New York, N. Y. Cylinder and piston construction. No. 1,379,041; May 24; v. 286; p. 690.
Pumphrey, Walter H., New York, N. Y. Hose-supporter clasp. No. 1,380,115; May 31; v. 286; p. 967.
Pun, Jack M., Stockton, Calif. Portable refrigerator. No. 1,376,577; May 3; v. 286; p. 38.
Purinton, Charles F., Burlington, Vt. Evaporating apparatus. No. 1,376,578; May 3; v. 286; p. 38.
Pusey, Howard C., Swarthmore, Pa. Carbureter. No. 1,378,055; May 17; v. 286; p. 430.
Putman, Frank W., Newport, R. I. Portable and collapsible article of furniture. No. 1,378,613; May 17; v. 286; p. 536.
Putnam, Fred A., and C. F. Robbins, Keene, N. H., assignors to Markem Machine Company, Boston, Mass. Type-wheel. No. 1,376,830; May 3; v. 286; p. 85.
Pyle-National Company, The. (See Dake, Charles W., assignor.)
Pyne, William H., *et al.* (See Dyer, Nelson M., assignor.)
Pyorr-Laris Company, The. (See Lane, Andrew T., assignor.)
Pyrolectric Instrument Co. (See Porter, Harry F., assignor.)
Quaint Manufacturing Company, The. (See Quaintance, Ellsworth E., assignor.)
Quaintance, Ellsworth E., assignor to The Quaint Manufacturing Company, Denver, Colo. Permutation-lock for safes. No. 1,376,638; May 3; v. 286; p. 49.
Quaintance, Ellsworth E., assignor to The Quaint Manufacturing Company, Denver, Colo. Permutation-padlock. No. 1,376,639; May 3; v. 286; p. 49.
Quality Silk Mills. (See Horn, W., and Hagan.)
Qualman, George, Toledo, Ohio. Vacuum-cleaner attachment. No. 1,376,971; May 3; v. 286; p. 113.
Quelle, Ralph J. (See Kuhlemeier, F. J., and Quelle.)
Quiggan, John P., Brooklyn, N. Y. Printing appliance. No. 1,379,936; May 31; v. 286; p. 933.
Quinn, Charles H., Roanoke, Va. Car-axle-driven dynamo. No. 1,376,901; May 3; v. 286; p. 100.
Quinn, Charles H., Roanoke, Va. Tensioning device for axle-driven generators. No. 1,376,902; May 3; v. 286; p. 100.
Quinn, James J., Chester, Pa. Game-board attachment. No. 1,377,364; May 10; v. 286; p. 245.
Quinn, William J., Westgrove, Pa. Lifting device. No. 1,378,900; May 24; v. 286; p. 664.
Quist, Fred, Firebaugh, Calif. Tie-plate. No. 1,377,524; May 10; v. 286; p. 275.
Rabuazzo, Salvatore, assignor to A. Lupinacci, Philadelphia, Pa. Shutter for accordions. No. 1,377,093; May 3; v. 286; p. 126.
Racine, Arthur, Montreal, Quebec, Canada. Car-replacing apparatus. No. 1,378,132; May 17; v. 286; p. 445.
Rackham, George J., Putney, London, England. Means of suspension of vehicles. No. 1,379,836; May 31; v. 286; p. 914.
Redell, Frederick W., Glenside, Pa. Driving or power-transmission belt. No. 1,378,379; May 17; v. 286; p. 490.
Rademacher, Frank, Ontario, Calif. Nut-gatherer. No. 1,378,275; May 17; v. 286; p. 472.
Radiatone Photo Co. (See Snow, Philo V., assignor.) (Reissue.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radisson, Augustin, and Berthon; said Radisson assignor of his right to Societe De Stearinerie et Savonnerie De Lyon, Lyon, France. Producing catalytic agents for reduction or hydrogenation purposes. No. 1,377,158; May 3; v. 286; p. 148.
Radium Diahl Company. (See Ganley, William, assignor.)
Rae, Frank B. (See Eastman, H. L., and Rae.)
Ragan, Edward M. (See Kent, Burton M., assignor.) (Reissue.)
Rail Joint Company, The. (See Schermerhorn, E. F., and Thomson, assignors.)
Rainey, Horace, Fort Branch, Ind. Coal-tipple. No. 1,378,276; May 17; v. 286; p. 276.
Rainey, Paul M., Glen Ridge, and A. D. Dowd, Hoboken, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,378,978; May 24; v. 286; p. 678.
Rainsford, Clarence F. (See McLeod, N. J., and Rainsford.)
Rainville, Omer J. (See Lareau, L. N., and Rainville.)
Raje, Thor, Los Angeles, Calif. Talking-machine. No. 1,378,133; May 17; v. 286; p. 445.
Raleigh Savings Bank and Trust Company, The, executor. (See Jolly, Benjamin R.)
Ramp Buildings Corporation. (See d'Humy, Fernand E., assignor.)
Ramsdell, Earle, Cleveland, Ohio. Tire-casing inspecting apparatus. No. 1,376,579; May 3; v. 286; p. 38.
Ramsdell, Lyndon O., Danvers, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Leather-working machine. No. 1,377,434; May 10; v. 286; p. 258.
Ramsey, George, Brooklyn, N. Y., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Vibration-motor. No. 1,379,212; May 24; v. 286; p. 722.
Rankin, Harry D., San Francisco, Calif., assignor to Corrosion Extraction Company. Decomposing, transposing, dissolving, or rendering soluble difficultly-soluble bodies. No. 1,378,485; May 17; v. 286; p. 511.
Ransome Concrete Machinery Company. (See Eichelberger, Lewis H., assignor.)
Ransome Concrete Machinery Company. (See Faber, John P., assignor.)
Rapelje, Adrian C., Harrisburg, Pa. Concrete tie. No. 1,376,580; May 3; v. 286; p. 38.
Rapelye, Harry A., Edgewood Park, Pa. Ironing implement. No. 1,379,721; May 31; v. 286; p. 893.
Rapid Roller Co. (See Kutner, Solomon, assignor.)
Rasen, Matthys C., Denver, Colo. Electric foot-warmer. No. 1,377,435; May 10; v. 286; p. 259.
Rattigan, John J., Homestead, Pa. Attaching lips to dredge-buckets. No. 1,377,925; May 10; v. 286; p. 353.
Rauch, Frank, Brooklyn, N. Y. Combined pen and cigar-lighter. No. 1,379,213; May 24; v. 286; p. 723.
Rayner, Oystein, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Recovering useful substances from minerals and rocks containing potassium. No. 1,377,601; May 10; v. 286; p. 289.
Ray, Ambrose S., Bellefonte, assignor of one-half to G. T. Ray, Mill Hall, Pa. Broom. No. 1,377,926; May 10; v. 286; p. 353.
Ray, George T. (See Ray, Ambrose S., assignor.)
Ray, Mark G., Richmond, Va. Composition for stopping radiator-leaks. No. 1,377,275; May 10; v. 286; p. 227.
Ray, William F., Chicago, Ill. Applying lubricant to tire-casings. No. 1,377,729; May 10; v. 286; p. 314.
Rayfield, Charles L., Chicago, Ill. Engine-speed-regulating carbureter. No. 1,379,042; May 24; v. 286; p. 691.
Raymond Bag Company. (See Lawrence, Walter F., assignor.)
Read, Anna L., administratrix. (See Read, Horace L.)
Read, Horace L., deceased; A. L. Read, administratrix, Quincy, W. Va. Drawing instrument. No. 1,379,124; May 24; v. 286; p. 706.
Reed and Barton Corporation. (See Rogers, William F., assignor.)
Reed, Harry S., and H. L. Publow, East Lansing, Mich. Process and apparatus for the production of lead oxid. No. 1,376,581; May 3; v. 286; p. 38.
Reed, Herbert H., Covington, Ohio. Spotlight-hanger. No. 1,377,027; May 10; v. 286; p. 354.
Reed, Lewis, Woods Cross, Utah. Sheet-metal flume. No. 1,380,318; May 31; v. 286; p. 1005.
Reed, Theodore J., Kansas City, Mo. Tire. No. 1,379,043; May 24; v. 286; p. 691.
Reed, Warren B., and W. Hepler, Morgan City, La. Drilling apparatus. No. 1,378,056; May 17; v. 286; p. 430.
Rees, Morgan E., Morriston, near Swansea, Wales. Means for securing railway-rails to sleepers. No. 1,377,928; May 10; v. 286; p. 354.
Reeves, Madison W., Sayre, Pa. Stepladder. No. 1,379,419; May 24; v. 286; p. 762.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Machine for grooving agates and similar stones. No. 1,379,044; May 24; v. 286; p. 691.
Refrigerating Specialties Co. (See Hansen, Charles C., assignor.)
Regina Company, The. (See Wills, Marmaduke M., assignor.)
Regis Ometer Company. (See Baldwin, Charles E., assignor.)
Register, Albert L. (See Huyett, D. D., and Register.)

Rehanek, James J., Columbia, S. C. Automobile-sleeper. No. 1,378,615; May 17; v. 286; p. 536.
Rehfuss, Martin O., assignor to John Wanamaker, Philadelphia, Philadelphia, Pa. Shearing-machine. No. 1,380,249; May 31; v. 286; p. 992.
Rehrauer, Randolph A. (See Rheim, L. J., and Rehauer.)
Reichmann, F. J., and J. Press, Chicago, Ill.; said Press assignor to said Reichmann. Telephone instrument. No. 1,379,287; May 24; v. 286; p. 737.
Reid, William C., Elkhart, Ind. Music-lyre holder. No. 1,376,780; May 3; v. 286; p. 75.
Reinhalter, Peter, assignor to P. Reinhalter Co., Wilkes-Barre, Pa. Handle attachment for screwdrivers. No. 1,379,125; May 24; v. 286; p. 706.
Reinhalter, Peter, Co. (See Reinhalter, Peter, assignor.)
Reis, G., & Bro., Inc. (See Reis, J. M., and Friedman, assignors.)
Reis, Julius M., and B. Friedman, assignors to G. Reis & Bro., Inc., New York, N. Y. Label-printing machine. No. 1,379,599; May 24; v. 286; p. 795.
Reisch, William C., Plantsville, Conn. Spring catch and lock. No. 1,380,158; May 31; v. 286; p. 975.
Remington Accounting Machine Corporation. (See Martin, Olaf O., assignor.)
Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Remington Typewriter Company. (See Seib, George A., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Remington Typewriting Company. (See Holden, Joseph B., assignor.)
Remy, Henry M., Constancia, Cuba. Cane-planting machine. No. 1,377,929; May 10; v. 286; p. 354.
Rendall, George F., New York, N. Y., assignor to Carbon Products Company. Distillation. No. 1,376,582; May 3; v. 286; p. 39.
Renfrow, Earl J., Modesto, Calif. Lock for spare rim and tire carriers. No. 1,379,937; May 31; v. 286; p. 933.
Rennick, Henry A., Ottawa, Ontario, Canada. Safety water-gage for steam-boilers. No. 1,377,436; May 10; v. 286; p. 259.
Reppe, Sever C., Los Angeles, Calif. Toy machine-gun. No. 1,379,126; May 24; v. 286; p. 707.
Repplier, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)
Research Corporation. (See Bradley, Linn, assignor.)
Research Corporation. (See Clevenger, Galen H., assignor.)
Reymond, Martin H., Anderson, Ind. Molding or shaping parts in molds or dies. No. 1,380,250; May 31; v. 286; p. 992.
Reynolds, Arthur M. (See Klug, A. A., and Reynolds.)
Reynolds, Ethan L. (See Klug, A. A., and Reynolds.)
Reynolds, William G., Chicago, Ill. Printing-machine. No. 1,376,640; May 3; v. 286; p. 49.
Rheim, Louis J., and R. A. Rehrauer, Two Rivers, Wis. Slidable retaining means for hairpins, combs, and the like. No. 1,378,134; May 17; v. 286; p. 445.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Handwheel for looms and other machines. No. 1,380,159; May 31; v. 286; p. 976.
Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing apparatus for message-registers. No. 1,379,650; May 31; v. 286; p. 880.
Riha, Paul, Philadelphia, Pa. Tensiometer. No. 1,380,251; May 31; v. 286; p. 992.
Ribeiro, Luiz, Fall River, Mass. Latch for cabinet-closures. No. 1,377,437; May 10; v. 286; p. 259.
Ricardo, Harry R., London, England. Piston for internal-combustion engines. No. 1,377,438; May 10; v. 286; p. 259.
Rice, Harold G., Chicago, Ill. Bottle-capper. No. 1,376,583; May 3; v. 286; p. 39.
Rice, John, Salineville, Ohio. Welding-rod holder. No. 1,377,792; May 10; v. 286; p. 327.
Rice, Samuel B., Richmond, Va. Means for short-circuiting block-signaling systems. No. 1,377,439; May 10; v. 286; p. 260.
Rich, Elmer A., Jr., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand-blast machine. No. 1,377,993; May 10; v. 286; p. 365.
Richard, Mordecai W. (See Carlson, E., and Richard.)
Richard, Thomas S. (See Parent, James A., assignor.)
Richards, Frank J., Los Angeles, Calif. Carbureter. No. 1,379,127; May 24; v. 286; p. 707.
Richards, Julius H., Springfield, Mass., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starter. No. 1,379,214; May 24; v. 286; p. 723.
Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Lift-latch for handbags. No. 1,377,276; May 10; v. 286; p. 227.
Richardson, De Soto E., Riverside, Wash. Case-hardening compound and using same. No. 1,379,722; May 31; v. 286; p. 893.
Richardson, George J., New York, N. Y., assignor to National Sanitary Street System, Incorporated. Combined trash-receptacle and advertising medium. No. 1,380,252; May 31; v. 286; p. 992.
Richardson, Led L. (See Hoskin, William, assignor.)
Richmond, Vincent C., Harrow-on-the-Hill, England. Gas-stopping lining for use in aircraft and medium for fixing same. No. 1,378,804; May 17; v. 286; p. 573.
Richter, George A., assignor to Brown Company, Berlin, N. H. Making calcium bisulfite. No. 1,378,616; May 17; v. 286; p. 537.
Richter, George A., assignor to Brown Company, Berlin, N. H. Making calcium-bisulfite cooking liquor. No. 1,378,617; May 17; v. 286; p. 537.
Riedel, Charles E., assignor to Detroit Automatic Scale Company, Detroit, Mich. Combined computing and counting scale. No. 1,379,215; May 24; v. 286; p. 723.
Riegel, Clarence W., Easton, Pa., assignor to General Chemical Company, New York, N. Y. Carboy-package. No. 1,380,020; May 31; v. 286; p. 949.
Rielly, Joseph A. (See Manny, R. A., and Rielly.)
Riesenfeld, Ernst H., Freiburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making wood alcohol from methane. No. 1,379,362; May 24; v. 286; p. 751.
Rieser-Beutter, Anna H., *et al.* (See Fahrni, Otto, assignor.)
Riggin, Fred L. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
Ribn, James M., and W., Louisville, Ky. Continuous-rail crossing. No. 1,378,277; May 17; v. 286; p. 472.
Ribn, William. (See Ribn, James M. and W.)
Riiber, Claus N., assignor to Norsk Alkali A/S, Trondhjem, Norway. Apparatus for the electrolysis of solutions of alkaline chlorids. No. 1,378,829; May 17; v. 286; p. 577.
Riis, Jens. Castlewood, S. D. Receiving-account check. No. 1,378,422; May 17; v. 286; p. 499.
Rilleau, Francis M., San Francisco, Calif. Flying-machine. No. 1,376,584; May 3; v. 286; p. 39.
Ripsch, Charles W., and J. C. Dawley, Dayton, Ohio. Lifting-jack. No. 1,376,831; May 3; v. 286; p. 86.
Risinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum-feed apparatus. No. 1,377,277; May 10; v. 286; p. 227.
Rischard, Joseph J., Pasadena, Calif. Valve-grinding tool. No. 1,377,440; May 10; v. 286; p. 260.
Rissman, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Window-guide. No. 1,378,558; May 17; v. 286; p. 525.
Ritter, Rrank O., Edgemoor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reducing acidity of oils. No. 1,379,045; May 24; v. 286; p. 691.
Roach, Edson A., Borduiac, N. D. Straw-stack former. No. 1,377,365; May 10; v. 286; p. 246.
Roach, William H., assignor of one-half to L. G. Stallings and J. M. Hadley, Lindsay, Calif. Wrench. No. 1,377,930; May 10; v. 286; p. 354.
Robbins, Charles, Lawrenceville, Ill. Gear-housing for meat-crushers. No. 1,376,585; May 3; v. 286; p. 39.
Robbins, Charles F. (See Putnam, F. A., and Robbins.)
Robbins, Charles H., Gleasondale, assignor to C. A. Claflin Company, Boston, Mass. Apparatus for dyeing. No. 1,378,618; May 17; v. 286; p. 537.
Robert Bosch Aktiengesellschaft. (See Honold, Gottlob, assignor.)
Roberts, Arthur K., Quincy, Mass. Spark-plug. No. 1,377,854; May 10; v. 286; p. 339.
Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Ammonia-still and the like. No. 1,379,939; May 31; v. 286; p. 934.
Roberts, Charles, assignor to The Calico Printers' Association Limited, Manchester, England. Textile and like printing machine. No. 1,378,278; May 17; v. 286; p. 472.
Roberts, Eugene, and A. H. Gibson, assignors to Sugar Centrifugal Discharger Co., Salt Lake City, Utah. Discharger for centrifugal baskets. No. 1,377,141; May 3; v. 286; p. 145.
Roberts, James L., Schenectady, N. Y., assignor to General Electric Company. Bearing and lubricating same. No. 1,378,559; May 17; v. 286; p. 525.
Robertshaw, George A., Greensburg, Pa. Eccentric adjustment for thermostats. No. 1,376,462; May 3; v. 286; p. 16.
Robertson, George B., Keene, N. H. Shackle. No. 1,378,619; May 17; v. 286; p. 537.
Robertson, William, Chicago, Ill. Conveyer. No. 1,378,901; May 24; v. 286; p. 664.
Robeson, Joseph E., *et al.* (See Noah, Leroy H., assignor.)
Robichon, Georges H., Three Rivers, Quebec, Canada. Diary. No. 1,378,560; May 17; v. 286; p. 525.
Robinson, Albert E., Cincinnati, and H. W. Schatz, Norwood, Ohio. Raising and lowering means in metal-working machinery. No. 1,380,021; May 31; v. 286; p. 949.
Robinson, Arthur S., Dayton, Ohio. Drag-line excavator. No. 1,377,278; May 10; v. 286; p. 228.
Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Sheet-feeding machines. No. 1,379,928; May 31; v. 286; p. 933.
Robinson, Harry E., and D. L. Ordway, Marlboro, Mass. Article-holder. No. 1,378,979; May 24; v. 286; p. 678.
Robinson, Henry C., Beansville, Ontario, Canada. Shock-absorber for automobiles. No. 1,378,279; May 17; v. 286; p. 472.
Robinson, James. (See Erskine-Murray, J., and Robinson.)

Robinson, Mark A., Toronto, Ontario, Canada. Motor-car fender. No. 1,378,423; May 17; v. 286; p. 499.
Robinson, William V., assignor to Independent Stove Company, Owosso, Mich. Automatic damper-regulator. No. 1,379,781; May 31; v. 286; p. 903.
Roby, David H. (See Dobbins, Timothy C., assignor.)
Rochambeau, Charles E., St. Joseph, Mo. Car-brake-controlling means. No. 1,377,628; May 10; v. 286; p. 294.
Rochlis, Samuel, Philadelphia, Pa. Ash-cart cover. No. 1,379,695; May 31; v. 286; p. 888.
Rockwood, George I., and H. G. Carlson; said Carlson assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Apparatus for making nuts. No. 1,378,980; May 24; v. 286; p. 678.
Rockwood Sprinkler Company of Massachusetts. (See Rockwood, G. I., and Carlson, assignors.)
Rodger, James G., Camden, N. J. Germinator. No. 1,380,253; May 31; v. 286; p. 993.
Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analyzing apparatus. No. 1,380,160; May 31; v. 286; p. 976.
Rodney Hunt Machine Company. (See Harris, Carl C., assignor.)
Roehl, Emil W., Spokane, Wash. Spice-can holder. No. 1,378,902; May 24; v. 286; p. 664.
Roehm, Edward R., Detroit, Mich. Cuff-holder. No. 1,370,288; May 24; v. 286; p. 737.
Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Automatic coin separating and counting machine. No. 1,378,720; May 17; v. 286; p. 557.
Roever, Mary A. (See Roever, Julius, assignor.)
Roever, Julius, New York, assignor to M. A. Roever, Richmond Hill, N. Y. Spring-bed. No. 1,376,641; May 3; v. 286; p. 49.
Roever, Julius, assignor to M. A. Roever, Richmond Hill, N. Y. Couch-bed. No. 1,376,642; May 3; v. 286; p. 50.
Rogers, Albert, San Diego, Calif. Gasolene measuring and testing device. No. 1,378,280; May 17; v. 286; p. 473.
Rogers, Allen, Brooklyn, N. Y. Oil-cracking. No. 1,378,424; May 17; v. 286; p. 499.
Rogers, Edward C., St. Louis, Mo. Urinary apparatus. No. 1,379,289; May 24; v. 286; p. 737.
Rogers, Elmer J., Quincy, assignor to Standard Piston Ring Co., Boston, Mass. Piston-ring-closing device. No. 1,377,730; May 10; v. 286; p. 314.
Rogers, John F., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Reversing-valve mechanism. No. 1,379,696; May 31; v. 286; p. 888.
Rogers, William F., assignor to Reed and Barton Corporation, Taunton, Mass. Cover for dishes. No. 1,380,308; May 31; v. 286; p. 1003.
Rogers, William S., New York, N. Y. Dentifrice. No. 1,379,046; May 24; v. 286; p. 691.
Rohdiek, John, New York, N. Y. Electric envelop-sealer. No. 1,378,721; May 17; v. 286; p. 557.
Rohwer, Henry, Seattle, Wash. Money-value indicator. No. 1,376,832; May 3; v. 286; p. 86.
Rolker, Edwin, Baltimore, Md. Clutch. No. 1,379,877; May 31; v. 286; p. 922.
Rolli, John, West Allis, Wis. Scraping apparatus. No. 1,376,643; May 3; v. 286; p. 50.
Roman, Lewis, Akron, Ohio. Reinforcement for ice-cream tubs or the like. No. 1,378,722; May 17; v. 286; p. 558.
Roofing Patents Company, The. (See Speer, Alexander S., assignor.)
Rooney, Elwin H., Providence, R. I., assignor to B. Gordon, Jr., Utica, N. Y. Carding-machine. No. 1,380,022; May 31; v. 286; p. 950.
Root, Arthur, Wilkes-Barre, Pa. Brick-machine. No. 1,377,525; May 10; v. 286; p. 275.
Root, Fred N., Kalamazoo, Mich. Track scraper or cleaner. No. 1,379,363; May 24; v. 286; p. 752.
Root, Howard O., assignor to The Prest-O-Lite Company, Indianapolis, Ind. Metal-extrusion apparatus. No. 1,377,094; May 3; v. 286; p. 136.
Rosales, Jerman, New York, N. Y. Surveying instrument. No. 1,380,333; May 31; v. 286; p. 1008.
Rose, George F., Hyndsville, N. Y. Between-the-lens photographic shutter. No. 1,377,366; May 10; v. 286; p. 246.
Rose, Ralph, and N. F. Cimaglia, Mount Vernon, N. Y. Splicing-ear for overhead trolley-wires. No. 1,377,972; May 10; v. 286; p. 362.
Rosebrook, Lucius R., Oskaloosa, Iowa. Approach for track-scales. No. 1,378,425; May 17; v. 286; p. 499.
Rosebush, Waldo E., Spokane, Wash. Composite automatic firearm. No. 1,377,629; May 10; v. 286; p. 295.
Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Portable electric lamp. No. 1,379,697; May 31; v. 286; p. 888.
Rosengren, Anders A., Malmo, Sweden. Machine for making caps and for applying the same to bottles. No. 1,377,279; May 10; v. 286; p. 228.
Rosenlof, Vicktor, Timber Lake, S. D. Strap connection for harness. No. 1,376,781; May 3; v. 286; p. 75.
Rosenstock, Jonas. (See Cohen, Max., assignor.)
Rosenthal, Leon W., New York, N. Y., and G. J. Lang, Weehawken, N. J., assignors to A. T. Murray, Allentown, Pa. Renewable fuse. No. 1,378,135; May 17; v. 286; p. 445.
Rosenthal, Leon W., New York, N. Y., and G. J. Lang, Weehawken, N. J., assignors to A. T. Murray, Allentown, Pa. Renewable fuse. No. 1,378,136; May 17; v. 286; p. 445.
Rosenthal, Leon W., New York, N. Y., and G. J. Lang, Weehawken, N. J., assignors to A. T. Murray, Allentown, Pa. Renewable fuse. No. 1,378,380; May 17; v. 286; p. 491.
Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,378,620; May 17; v. 286; p. 537.
Ross, Edward E., Wilkinsburg, Pa. Resilient device. No. 1,378,281; May 17; v. 286; p. 473.
Ross, Matt F., Windfall, Ind. Differential gearing. No. 1,378,723; May 17; v. 286; p. 558.
Ross, Warren A., Haverhill, Mass. Hair-singeing machine. No. 1,378,137; May 17; v. 286; p. 446.
Rottmann, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Standard cell. No. 1,379,698; May 30; v. 286; p. 889.
Rötzel, Christian, Dusseldorf, Germany. Rolling iron. No. 1,380,254; May 31; v. 286; p. 993.
Rouanet, Louis, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France. Apparatus for setting gages. No. 1,379,878; May 31; v. 286; p. 922.
Roussillon, Philippe, Argenteuil, assignor to Societe Anonyme Des Etablissements, A. Olier, Clermont-Ferrand, France. Nut-cracking machine. No. 1,380,023; May 31; v. 286; p. 950.
Rousso, Jacques. (See Brigham, Edwin T., assignor.)
Rowe, Charles D. (See Lowenhaupt, Daniel, and Rowe.)
Rowlett, Caius A., Palmetto, Fla. Water-wheel. No. 1,378,561; May 17; v. 286; p. 525.
Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Dry-pipe accelerator. No. 1,378,805; May 17; v. 286; p. 573.
Roy, Charles J., Los Angeles, Calif. Trap. No. 1,377,441; May 10; v. 286; p. 260.
Royster, David O., St. Louis, Mo. Beverage cooling and dispensing apparatus. No. 1,377,630; May 10; v. 286; p. 295.
Rozee Perkins, Raymond. (See Aveline, Georges, assignor.)
Rudenberg, Reinhold, Charlottenburg, near Berlin, assignor to Siemens Schuckert-Werke G. M. B. H., Berlin, Germany. High-speed revolving field-magnet. No. 1,376,729; May 3; v. 286; p. 66.
Rudman, Louis M., *et al.* (See Sundel, Samuel, assignor.)
Rudolphi, Arthur E., Dowagiac, Mich. Furnace. No. 1,379,723; May 31; v. 286; p. 893.
Runde, Richard W., Detroit, Mich. Surface milling-cutter. No. 1,376,972; May 3; v. 286; p. 113.
Rundle, Everitt, *et al.* (See Horn, Charles A., assignor.)
Rundle, W. Everitt, *et al.* (See Horn, Charles A., assignor.)
Ruoff, Christian, and J. Nitschman, Newark, N. J. Metallic yarn. No. 1,376,730; May 3; v. 286; p. 66.
Rupp, Charles, assignor to J. S. Thorn Company, Philadelphia, Pa. Multiple-sash-operating mechanism. No. 1,380,309; May 31; v. 286; p. 1003.
Rupp, John D., Westbrook, Minn. Folding scaffold. No. 1,377,095; May 3; v. 286; p. 136.
Ruppel, Frederick C., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich. Celluloid-coated cement body. No. 1,379,837; May 31; v. 286; p. 915.
Rush, Estol S., Los Angeles, Calif. Timer. (Reissue.) No. 15,107; May 17; v. 286; p. 578.
Rushmore, Samuel W., Plainfield, N. J. Cooling system. No. 1,378,724; May 17; v. 286; p. 558.
Russell, Anna E., Syracuse, N. Y. Vegetable-slicer. No. 1,379,724; May 31; v. 286; p. 893.
Russell, Charles D., *et al.* (See Heinle, Albert W., assignor.)
Russell, Cornealius W., Burlington, Iowa. Sewage-disposal system. No. 1,379,047; May 24; v. 286; p. 691.
Russell, Frank H., Elko, Nev. Artificial tooth. No. 1,376,644; May 3; v. 286; p. 50.
Russell, Frank H., Elko, Nev. Artificial tooth. No. 1,376,645; May 3; v. 286; p. 50.
Russell, James W., San Diego, Calif. Ship. No. 1,377,222; May 10; v. 286; p. 216.
Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,378,057; May 17; v. 286; p. 430.
Russell, Thomas T. (See Watkins, Sylvester A., assignor.)
Russo, Sully. (See McDougall, T., and Russo.)
Rust, Edwin G., Sioux City, Iowa. Container-closure. No. 1,377,526; May 10; v. 286; p. 275.
Rutherfurd, Robert A., New York, N. Y. Soil-cultivator. No. 1,377,602; May 10; v. 286; p. 289.
Rutishauser, Emil. (See Jost, Heinrich, assignor.)
Rutz, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Flash-igniter. No. 1,376,646; May 3; v. 286; p. 50.
Ryan, Richard, Cleveland, Ohio. Block or brick making machine. No. 1,376,731; May 3; v. 286; p. 66.
Ryan, Thomas, Jenks, Ala. Tank. No. 1,378,725; May 17; v. 286; p. 558.
Ryerson, Joseph T., & Son. (See Kunzer, John G., assignor.)
Ryner, Arthur. (See Woodville, Richard C., assignor.)
Rystedt, Ingemar K., Dayton, Ohio. Vulcanising apparatus. No. 1,376,463; May 3; v. 286; p. 16.

Saal, Henry G. (See Stafford, Frederick S., assignor.)
Sabin, Alfred B., Laramie, Wyo. Stroke-regulator for windmills. No. 1,378,621; May 17; v. 286; p. 537.
Sabin, Ford L., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Dock-crane. No. 1,378,081; May 24; v. 286; p. 679.
Saborsky, Arthur D., Lakewood, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich. Inking mechanism. No. 1,377,142; May 3; v. 286; p. 145.
Sachnoff, George, Brooklyn, N. Y. Wardrobe-trunk. No. 1,378,381; May 17; v. 286; p. 491.
Sachnoff, George, Brooklyn, N. Y. Wardrobe-trunk. No. 1,380,024; May 31; v. 286; p. 950.
Sackett, Orville R., Niagara Falls, N. Y. Air-valve. No. 1,378,426; May 17; v. 286; p. 500.
Sackley, James A., Company. (See Fletcher, Joseph, assignor.)
Sadtler, Helena S., Springfield township, Montgomery county, Pa. Smocking-pattern. No. 1,377,631; May 10; v. 286; p. 295.
Safandshur Chemical Co. (See Hamilton, John L., assignor.)
Safe-Guard Check-Writer Company. (See Whitaker, John, assignor.)
Saffold, Ray P., Warren, Ariz. Drill-column. No. 1,380,255; May 31; v. 286; p. 993.
Salisbury, Raymond, *et al.* (See White, Tilman, assignor.)
Saloman, Arvid, Duluth, Minn. Nail-holder for hammers. No. 1,379,838; May 31; v. 286; p. 915.
Saltiel, Henry C., Rawlins, Wyo. Journal-box. No. 1,380,256; May 31; v. 286; p. 993.
Saltmarsh, George H. (See Letchford, P. H., and Saltmarsh.)
Samstag, Louis A., New York, N. Y. Hair-net-display device. No. 1,376,782; May 3; v. 286; p. 76.
Samuel, Barnet & Sons Limited. (See Horton, Richard W., asignor.)
Samuels, Charles B., Tulsa, Okla. Milk-bottle carrier. No. 1,377,931; May 10; v. 286; p. 354.
Samuels, Maurice M. (See Bechoff, F., and Samuels.)
Sanderson, Ray R., Orrville, Ohio. Drilling-machine. No. 1,377,280; May 10; v. 286; p. 228.
Sanderson, William, Pittsburgh, Pa. Hoisting mechanism for dumping-vehicles. No. 1,376,732; May 3; v. 286; p. 66.
Sanderson, William, Pittsburgh, assignor to Simplex Manufacturing Company, Connesautville, Pa. End-gate for vehicles. No. 1,376,733; May 3; v. 286; p. 66.
Sanderson, Wootson L., Meridian, Miss. Artificial stone or brick. No. 1,376,464; May 3; v. 286; p. 17.
Sandstrom, Theodore, Cleveland, Ohio. Short-turning-gear mechanism. No. 1,377,096; May 3; v. 286; p. 136.
Saner, Bert M. (See Snelling, S. A., and Saner.)
Sanford, Henry H., Mansfield, Ohio. Combined gaseous and solid fuel range. No. 1,377,731; May 10; v. 286; p. 314.
Sanford, Sydney J., Los Angeles, Calif. Aeronautical clinometer. No. 1,377,442; May 10; v. 286; p. 260.
Sanitary Heating Company, The. (See Schofield, William H., assignor.)
Sanitary Products Corporation of America. (See Mallory, George P., assignor.)
Sarbil, Mike, Ludlow, Mass. Door-lock. No. 1,378,622; May 17; v. 286; p. 538.
Sargent Company. (See Sargent, George H., assignor.)
Sargent & Company. (See Voight, Henry G., assignor.)
Sargent, George H., assignor to Sargent Company, Chicago, Ill. Water-gage. No. 1,380,079; May 31; v. 286; p. 960.
Sargent, George H., Chicago, Ill. Water-gage. No. 1,380,080; May 31; v. 286; p. 961.
Sass, Fred J., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove or range. No. 1,379,364; May 24; v. 286; p. 752.
Sattler, Charles, Brooklyn, N. Y. Elastic body. No. 1,379,216; May 24; v. 286; p. 723.
Sattler, Hans, Sheboygan, Wis. Travel-recorder for vehicles. No. 1,377,281; May 10; v. 286; p. 228.
Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Tape for adding-machines. No. 1,380,081; May 31; v. 286; p. 961.
Sauter, Andrew, Detroit, Mich. Vehicle-cab. No. 1,378,726; May 17; v. 286; p. 558.
Sauter, Fritz, Basel, Switzerland. Motor-driven quick-action electric switch. No. 1,378,283; May 17; v. 286; p. 473.
Sawyer, Charles A., Jr., Newton, Mass. Sole-blank-cutting machine with adjustable knives. No. 1,378,138; May 17; v. 286; p. 446.
Sawyer, Charles A., Jr., Newton, Mass. Leather-cutting machine. No. 1,379,420; May 24; v. 286; p. 762.
Sawyer, Frank M., Los Angeles, Calif. Wall construction. No. 1,378,139; May 17; v. 286; p. 446.
Sawyer, Walter H., Philadelphia, assignor to A. C. Boyd, Lansdowne, Pa. Sales-check holder and notcher. No. 1,379,217; May 24; v. 286; p. 724.
Sawyer, William F. *et al.* (See Krause, Norman R., assignor.)
Sayles Finishing Plants. (See Flick, Lorenz, assignor.)
Sayre, Ralph E., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,378,562; May 17; v. 286; p. 526.
Schaefer, Frank M., Chicago, Ill. Peeling-machine. No. 1,378,058; May 17; v. 286; p. 430.
Schäfer, Bela B., Baden, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Apparatus for measuring the vacuum in large rectifiers. No. 1,377,282; May 10; v. 286; p. 228.
Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Ash-sifter. No. 1,378,623; May 17; v. 286; p. 538.
Schaffer, Jacob. (See Schaffer, Henry J., assignor.)
Schaffer, John C., Tiffin, Ohio. Lime-burning. No. 1,377,367; May 10; v. 286; p. 246.
Schaffer, John C. (See Crow, W., and Schaffer.)
Schatz, Herman W. (See Robinson, A. E., and Schatz.)
Schatz, Herman W., Norwood, Ohio. Electric driving means for drilling machinery. No. 1,379,782; May 31; v. 286; p. 904.
Scheele, Walter T., Hackensack, N. J., assignor to H. M. Specht, New York, N. Y. Cellulose composition. No. 1,379,699; May 31; v. 286; p. 889.
Schenuit, Frank G., Baltimore, Md. Tire-tread. No. 1,377,283; May 10; v. 286; p. 229.
Schermerborn, Edwards F., Brooklyn, and W. P. Thomson, assignors to The Rail Joint Company, New York, N. Y. Insulating end post. No. 1,376,647; May 3; v. 286; p. 50.
Scheu, John H., New York, N. Y. Clothes-hanger. No. 1,379,700; May 31; v. 286; p. 889.
Schevitz Carl, Jacksonville, Fla. Expansible shoe-last. No. 1,379,478; May 24; v. 286; p. 772.
Schilling, Bernhard, Paterson, N. J. Automatic farm lighting and power set. No. 1,377,223; May 10; v. 286; p. 217.
Schlacks, William J., Chicago, Ill. Terminal check-valve for force-feed lubricating systems. No. 1,376,833; May 3; v. 286; p. 86.
Schleder, John C. R., McKees Rocks, Pa. Bicycle. No. 1,380,082; May 31; v. 286; p. 961.
Schlirf, Herman, Milwaukee, Oreg. Toy wind-wheel. No. 1,380,325; May 31; v. 286; p. 1006.
Schlote, Guido F., Afton, Wyo. Coat-collar fastener. No. 1,380,257; May 31; v. 286; p. 993.
Schmidtke, John A., Calgary, Alberta, Canada. Tire-filling composition. No. 1,376,973; May 3; v. 286; p. 113.
Schmilowitz, Abraham, Jersey City, N. J. Combined gas heating and cooking stove. No. 1,379,701; May 31; v. 286; p. 889.
Schmitt, Robert L. (See Genton, Aime, assignor.)
Schmutzer, Anton W., Crandon, Wis. Mail-bag catcher. No. 1,377,932; May 10; v. 286; p. 355.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Ernst, *et al.* (See Fahrni, Otto, assignor.)
Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie., Paris, France. Endless-track vehicle. No. 1,376,648; May 3; v. 286; p. 51.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Tractor-vehicle. No. 1,376,649; May 3; v. 286; p. 51.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Motor-vehicle for the transport and operation of small-caliber guns. No. 1,377,603; May 10; v. 286; p. 289.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Combined field-gun and self-propelling vehicle. No. 1,379,128; May 24; v. 286; p. 707.
Schneider, Frank I., Shellrock, Iowa. Barrel-lifter. No. 1,379,313; May 24; v. 286; p. 742.
Schneider, Walter E., Pryor, Okla. Automatic lighting device for gas-stoves. No. 1,379,479; May 24; v. 286; p. 773.
Schneiter, Edward J., Chicago, Ill. Propelling mechanism for water-craft. No. 1,379,290; May 24; v. 286; p. 737.
Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
Schnurr, Peter, Chicago, Ill. Clasp. No. 1,379,480; May 24; v. 286; p. 773.
Schoen, Catherine, Scranton, Pa. Sanitary protector. No. 1,376,783; May 3; v. 286; p. 76.
Schofield, George L., Kansas City, Mo. Clamp for spoke-wheels. No. 1,378,563; May 17; v. 286; p. 526.
Schofield, William H., Brooklyn, N. Y., assignor to The Sanitary Heating Company. Gas-heater. No. 1,378,624; May 17; v. 286; p. 538.
Scholl, Paul, Berlin, Germany, assignor to E. Ahlert, South Pasadena, Calif. Safety device for locks. No. 1,379,048; May 24; v. 286; p. 691.
Schoreck, Albert R., Chicago, Ill. Delivery and return slip for envelops. No. 1,378,903; May 24; v. 286; p. 664.
Schou, Theodor, assignor to The Ideal Electric & Manufacturing Co., Mansfield, Ohio. Brush-holder. No. 1,378,565; May 17; v. 286; p. 526.
Schou, Theodor, and R. L. Behrens, assignors to The Ideal Electric & Manufacturing Co., Mansfield, Ohio. Collector-ring support. No. 1,378,564; May 17; v. 286; p. 526.
Schmid, Herman. (See Fuegel, G., and Schmid.)
Schmidt, Paul, Altrahlstedt, near Hamburg, assignor to firm: Landwirtschaftliche Handelsgesellschaft m. b. H., Sudseehaus, Hamburg, Germany. Preparing a fertilizer. No. 1,378,284; May 17; v. 286; p. 473.
Schreder, Nikolaus. (See Schreder, Stefan and N.)
Schreder, Stefan and N., Cleveland, Ohio. Gas heating-stove. No. 1,377,732; May 10; v. 286; p. 314.

Schreiner, Bernard L. (See Esnough, T. S., and Schreiner.)
Schroeder, Charles S. (See Morgan, J. C., and Schroeder.)
Schroeder, Frank J., Rochester, N. J. Onion-topping machine. No. 1,379,049; May 24; v. 286; p. 692.
Schroeder, Martin P. H. (See Awe, William F., assignor.)
Schuer, Sophia E., Warren, Mich. Impression-paper. No. 1,377,368; May 10; v. 286; p. 246.
Schuermann, Julius J., Clinton, Iowa. Photographer's head-screen. No. 1,378,904; May 24; v. 286; p. 664.
Schuldt, Will, Arlington township, Woodbury county, Iowa. Tire-tube container. No. 1,378,905; May 24; v. 286; p. 665.
Schulte, Louis, Pittsburgh, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nickel-plating solution. No. 1,379,050; May 24; v. 286; p. 692.
Schultheiss, Joseph F., Weehawken, N. J. Game apparatus. No. 1,379,218; May 24; v. 286; p. 724.
Schultz, Emile J. A., Paris, France. Economical lubricant-distributer for mechanical installation. No. 1,379,219; May 24; v. 286; p. 724.
Schultz, Max. (See Bloom, Bertha, assignor.)
Schultz, Oswald R., and O. Kirsch, New York, N. Y. Method of and apparatus for making multicolor prints. No. 1,379,365; May 24; v. 286; p. 752.
Schumacher, John, Los Angeles, Calif. Plaster-board and method of making same. No. 1,376,784; May 3; v. 286; p. 76.
Schumacher, John, Los Angeles, Calif. Process and means for making plaster-board and the like. No. 1,379,940; May 31; v. 286; p. 934.
Schussler, Walter H. (See Albrecht, E., and Schussler.)
Schwab, Frank X., Buffalo, N. Y. Delivery-case for bottled beverages. No. 1,378,197; May 17; v. 286; p. 456.
Schwaller, Alfred H., Milwaukee, Wis. Fountain-washer for clothes-boilers. No. 1,379,783; May 31; v. 286; p. 904.
Schwartz, Francis, Brooklyn, N. Y. Tobacco-tablet. No. 1,376,586; May 3; v. 286; p. 39.
Schwartz, Israel, Danbury, Conn. Handle-bar-post-repair parts for bicycles. No. 1,379,784; May 31; v. 286; p. 904.
Schwartz, Maurice P., Indianapolis, Ind. Cabinet. No. 1,378,285; May 17; v. 286; p. 473.
Schwartz, Walter M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,377,793; May 10; v. 286; p. 327.
Schweiger, William F., assignor to Multipost Company, Rochester, N. Y. Stamp-affixer. No. 1,379,651; May 31, v. 286; p. 880.
Schweinert, M. C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Pressure-gage for pneumatic tires or the like. No. 1,379,220; May 24; v. 286; p. 724.
Schweinert, Maximilian C. (See Kraft, H. P., and Schweinert.)
Sclater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company. Incased electrical apparatus. No. 1,379,481; May 24; v. 286; p. 773.
Scoggan, Richard R., Jeffersonville, Ind., assignor to Ky. Switch & Signal Co., Inc., St. Matthews, Ky. Groundbox. No. 1,377,029; May 3; v. 286; p. 124.
Scolding Locks Hairpin Co. (See Smith, Homer P., assignor.)
Scott, Allen C., Omaha, Nebr. Aviator's parachute and pack. No. 1,378,382; May 17; v. 286; p. 491.
Scott, H. P., and W. G. Bond, Wilmington, Del. Purifying air. No. 1,379,221; May 24; v. 286; p. 724.
Scott, Nell R., Albany, Oreg. Hook-and-eye fastener. No. 1,378,286; May 17; v. 286; p. 473.
Scott Paper Company. (See Parsons, Philip D., assignor.)
Scullin Steel Co. (See Doerr, Harry E., assignor.)
Scully, John J., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Sound-box. No. 1,377,632; May 10; v. 286; p. 295.
Seaborn, Charles C., Portland, Oreg. Dental handpiece. 1,379,880; May 31; v. 286; p. 922.
Seabury, Ralph L., Toledo, Ohio. Producing electrical conductors. No. 1,379,366; May 24; v. 286; p. 752.
Seal, Theodore T., Wheeling, W. Va., assignor of one-half to W. O. Houston, Bellaire, Ohio. Combined thread holder and cutter. No. 1,377,284; May 10; v. 286; p. 229.
Seaman, Stewart E., New York, N. Y. Pigment carbon derived from vegetable pith. No. 1,379,222; May 24; v. 286; p. 724.
Searing, Eugene P., Hawthorne, N. J. Belt-drives for textile-winders. No. 1,376,465; May 3; v. 286; p. 17.
Searle, Harry A., Council Bluffs, Iowa. Grease-drum. No. 1,377,285; May 10; v. 286; p. 229.
Searcy, Peter B., Smithville, Tex. Can-opener. No. 1,377,285; May 10; v. 286; p. 229.
Seaton, William G., Knoxville, Tenn. Pencil-container. No. 1,377,097; May 3; v. 286; p. 137.
Seator, Robert J., assignor of one-half to H. Matthews, Battle Creek, Mich. Motor for regulators. No. 1,378,625; May 17; v. 286; p. 538.
Sechler, D. M., Implement & Carriage Company. (See Englund, Ernest E., assignor.)
Sechler, D. M., Implement & Carriage Company. (See Hartsock, Sherman C., assignor.)
Seegmueller, Paul C. (See Brown, W. E., and Seegmueller.)
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition. No. 1,379,596; May 24; v. 286; p. 795.
Seel, Paul C., H. Combs, and R. Kemp, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition and sheet. No. 1,380,258; May 31; v. 286; p. 993.
Seemann, George M. (See Ackerland, Joseph, assignor.)
Seemann, Jacob J., assignor to Utica Heater Company, Utica, N. Y. Heater-casing construction. No. 1,379,051; May 24; v. 286; p. 692.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,378,486; May 17; v. 286; p. 511.
Seibert, Charles K. (See Penter, Eli E., assignor.)
Seibert, Julius J., V., and W., McKeesport, Pa. Hoisting attachment for auto-trucks. No. 1,379,652; May 31; v. 286; p. 880.
Seibert, Victor. (See Seibert, Julius J., V., and W.)
Seibert, William. (See Seibert, Julius J., V., and W.)
Sejnoha, Richard, Wolsey, S. D. Folding and extension stool or chair. No. 1,379,129; May 24; v. 286; p. 707.
Sellers, William, & Company. (See Kneass, Strickland L., assignor.)
Sellmer, Jacob P., San Anselmo, Calif. Aeroplane. No. 1,376,785; May 3; v. 286; p. 76.
Service Electric Manufacturing & Supply Company. (See Hoar, George W., assignor.)
Service Motor Truck Company. (See Petty, Walter M., assignor.)
Sewell, Arthur L., assignor of one-third to E. J. Moran and one-third to J. A. Greeley, Chicago, Ill. Inner liner for tires. No. 1,379,314; May 24; v. 286; p. 742.
Seymour, Arthur J., St. Paul, Minn., assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,377,225; May 10; v. 286; p. 217.
Seymour, Manly C., Hesperia, Mich. Tire-boot. No. 1,377,098; May 3; v. 286; p. 137.
Shader, Cornelius L., Green Island, and J. E. Falle, Troy, N. Y. Shirt-neckband. No. 1,378,825; May 17; v. 286; p. 577.
Shafer, Van A., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
Shaffer, Charles G., Paterson, and G. Trefs, Montville, N. J. Control means for mold-making machines. No. 1,379,421; May 24; v. 286; p. 762.
Shaner, Kserty, Washburn, Me. Pliers. No. 1,379,315; May 24; v. 286; p. 742.
Shank, Irl A., Florence, Colo. Locking device for temper-screw swivels. No. 1,377,287; May 10; v. 286; p. 229.
Shankland, James L., Toronto, Ontario, Canada. Triplane. No. 1,377,673; May 10; v. 286; p. 362.
Shanks, John S., Canton, Ohio. Heating apparatus. No. 1,377,030; May 3; v. 286; p. 124.
Shann, Oscar A. (See Gilson, A. F. F., and Shann.)
Shapiro, David, New York, N. Y. Cigarette and cigar dispenser and container. No. 1,379,702; May 31; v. 286; p. 889.
Sharp, Barney A., Los Angeles, Calif. Potato-peeling machine. No. 1,380,259; May 31; v. 286; p. 994.
Sharp & Dohme. (See La Porte, Norbert M., assignor.)
Sharpneck, Eliel L., Bakersfield, Calif. Plastic composition. No. 1,379,052; May 24; v. 286; p. 692.
Sharpneck, Eliel L., Bakersfield, Calif. Plastic composition. No. 1,379,053; May 24; v. 286; p. 692.
Shaw, Charles E. (See Houley, J. C., and Shaw.)
Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Corner-joint. No. 1,376,587; May 3; v. 286; p. 39.
Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Corner structure for inclosures. No. 1,376,588; May 3; v. 286; p. 40.
Shaylor, John, Lindenwold, N. J. Center-finder and punch. No. 1,378,287; May 17; v. 286; p. 474.
Sheatsley, Charles W., Pensacola, Fla. Plumber's ferret. No. 1,377,933; May 10; v. 286; p. 355.
Sheffield, Julian N., Chapin, N. Y. Harrow-tooth blade. No. 1,378,487; May 17; v. 286; p. 511.
Sheldon, C. P., *et al.* (See Smith, George T., assignor.)
Sheldon, Daisy D., *et al.* (See Smith, George T., assignor.)
Sheldon, Everett E., Philadelphia, Pa. Photographic-printing machine. No. 1,377,099; May 3; v. 286; p. 137.
Shelly, William C., Norfolk, Va. Garment-hanger. No. 1,377,443; May 10; v. 286; p. 260.
Shepard, Elliott, Fresno, Calif. Container closing and stapling apparatus. No. 1,378,488; May 17; v. 286; p. 512.
Sheppard, Creedy C., assignor to United States Ordnance Company, Washington, D. C. Automatic firearm. No. 1,376,834; May 3; v. 286; p. 86.
Sherbondy, Earl H., Cleveland, Ohio. Method and apparatus for pressure die-casting. No. 1,377,226; May 10; v. 286; p. 217.
Sherer, William T., Chicago, Ill. Display-counter. No. 1,380,161; May 31; v. 286; p. 976.
Sheridan, T. W. & C. B., Company. (See Gitzendanner, Charles, assignor.)
Sheridan, T. W. & C. B., Company. (See Story, Ward B., assignor.)
Shiek, Daniel W., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. No. 1,376,835; May 3; v. 286; p. 86.
Shields, Charles J., Columbus, Ohio. Rail-connecting chair-plate pattern. No. 1,378,728; May 17; v. 286; p. 559.
Shimadzu, Tadamitsu, Tokyo, Japan. Funnel. No. 1,378,729; May 17; v. 286; p. 559.

Shiner, Rose E., Franklin, Mass. Making embossed fabric. No. 1,379,703; May 31; v. 286; p. 889.
Shirpser, Max L., San Francisco, Calif. Motor-meter lock. No. 1,378,288; May 17; v. 286; p. 474.
Shockley, Jiles S., assignor to The Shockley Motor Company, Nashville, Tenn. Pump. No. 1,379,785; May 31; v. 286; p. 904.
Shockley Motor Company, The. (See Shockley, Jiles S., assignor.)
Shodron, John G., assignor to James Manufacturing Company, Fort Atkinson, Wis. Stable. No. 1,379,725; May 31; v. 286; p. 893.
Shoemaker, Alvin H., assignor to Knappen Finance Company, Seattle, Wash. Wheel. No. 1,379,054; May 24; v. 286; p. 692.
Shoemaker, Alvin H., Oakland, Calif. Rotary engine. No. 1,379,653; May 31; v. 286; p. 880.
Shoemaker, Joseph A., New York, N. Y. Garment-hanger. No. 1,377,444; May 10; v. 286; p. 260.
Shoenberg, Milton H., San Francisco, Calif. Overload-switch. No. 1,378,730; May 17; v. 286; p. 559.
Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Hydrocarbon-motor. No. 1,377,369; May 10; v. 286; p. 246.
Short, David, Sioux City, Iowa. Rail system. No. 1,379,580; May 24; v. 286; p. 792.
Short, Ruel I., San Francisco, Calif. Tire-rack. No. 1,377,733; May 10; v. 286; p. 314.
Shreeve, Herbert E., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,378,982; May 24; v. 286; p. 679.
Shroyer, Jacob L., Oak Park, Ill., assignor to General Electric Company. Electric cooker. No. 1,378,566; May 17; v. 286; p. 526.
Shuler, Edwin H. (See Shuler, Max C. and E. H.)
Shuler, Max C., Charlotte, and E. H. Shuler, Lansing, Mich. Gas-burner. No. 1,376,836; May 3; v. 286; p. 87.
Sibole, Percy L., Swissvale, Pa. Die-casting machine. No. 1,377,604; May 10; v. 286; p. 290.
Sidwell, Harold H., Brooklyn, N. Y. Overboard-discharge valve for ships. No. 1,377,633; May 10; v. 286; p. 295.
Sieber, Jacob, Olten, Switzerland. Apparatus for operating internal-combustion engines by means of acetylene. No. 1,376,786; May 3; v. 286; p. 76.
Siemens Schuckert-Werke G. m. b. H. (See Rudenberg, Reinhold, assignor.)
Sierks, Leo G., Wayne, Nebr. Sled-track. No. 1,377,445; May 10; v. 286; p. 261.
Siesholtz, Herbert, Allentown, Pa. Strap connection for jacquard devices. No. 1,378,567; May 17; v. 286; p. 527.
Signal Gesellschaft m. b. H. Firm. (See Hahnemann, Walter, assignor.)
Signode System. (See Kimball, Wallace D., assignor.)
Silas, Elmer W., Maitland, Fla. Shoe-cleaner. No. 1,377,934; May 10; v. 286; p. 355.
Silberman, Samuel G., Philadelphia, Pa. Antiskid attachment for vehicle-wheels. No. 1,378,289; May 17; v. 286; p. 474.
Silva, Richard M., Brooklyn, N. Y. Hose-supporter. No. 1,377,031; May 3; v. 286; p. 124.
Silver, Joseph A., assignor to The Silver Steel Tie Company, New York, N. Y. Railway-tie. No. 1,378,383; May 17; v. 286; p. 491.
Silver Steel Tie Company, The. (See Silver, Joseph A., assignor.)
Silvera, Theodore E., Philadelphia, Pa. Hair-restorer. No. 1,378,731; May 17; v. 286; p. 559.
Silverman, Harry, Brooklyn, N. Y. Jewel-mount. No. 1,376,974; May 3; v. 286; p. 113.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,376,466; May 3; v. 286; p. 17.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Compressor system. No. 1,376,467; May 3; v. 286; p. 17.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,376,468; May 3; v. 286; p. 17.
Simmons, Alba K., Roanoke, Va. Wheel. No. 1,376,589; May 3; v. 286; p. 40.
Simmons Company. (See Gall, John F., assignor.)
Simmons, John E., Portland, Oreg. Vehicle-spring. No. 1,379,223; May 24; v. 286; p. 724.
Simmons, John W., Cleveland, Ohio. Automobile-bumper. No. 1,378,906; May 24; v. 286; p. 665.
Simmons, Leon W., Los Angeles, Calif. Direction-indicating apparatus for automobiles. No. 1,379,130; May 24; v. 286; p. 707.
Simmons, Leonard F. G. (See Frazer, R. A., and Simmons.)
Simmonson, Robert C. (See Dittmann, Halfdan and S. A., and Simmonson.)
Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Wilwaukee, Wis. Circuit-controller. No. 1,378,059; May 17; v. 286; p. 431.
Simoneau, Adelard B., Waterville, Me. Harness action for looms. No. 1,378,732; May 17; v. 286; p. 559.
Simons, Frank, St. Louis, Mo. Seesaw. No. 1,378,733; May 17; v. 286; p. 559.
Simplex Manufacturing Company. (See Sanderson, William, assignor.)
Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Rotary broaching-machine. No. 1,376,734; May 3; v. 286; p. 67.
Simpson, Evelyn L., Waterville, Me. Pie marker and trimmer. No. 1,377,974; May 10; v. 286; p. 362.
Simpson, George N., and R. W. Williams, Chicago, Ill., assignors to Car Dumper & Equipment Company. Car-stops. No. 1,378,568; May 17; v. 286; p. 527.
Simpson, Warren B., Huntingdon, Pa. Insulator-bracket. No. 1,378,140; May 17; v. 286; p. 446.
Simpson, Warren W. (See Menges, L. A., and Simpson.)
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Harmon, Frank L., assignor.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Ostrom, F. W., and Webb, assignors.)
Singleton-Griesbach, Henry, Liverpool, England. Sparking plug. No. 1,378,569; May 17; v. 286; p. 527.
Siraco, Nicholas A. (See Hammond, Harry F., assignor.)
Sisson, Vinton E., assignor to The Pressed Steel Manufacturing Company, Chicago, Ill. Railway-car-roof structure. No. 1,376,469; May 3; v. 286; p. 17.
Sjöström, Victor, Los Angeles, Calif. Gas heating appliance. No. 1,376,650; May 3; v. 286; p. 51.
Skóra, Alojzy, Passaic, N. J. Door-lock. No. 1,379,839; May 31; v. 286; p. 915.
Slack, Walter W. (See Winestock, Otto C., assignor.)
Slater, Harvey, assignor to Charles F. Elmes Engineering Works, Chicago, Ill. Valve. No. 1,378,141; May 17; v. 286; p. 446.
Slathar, Fritz, Eau Claire, Wis. Beet-harvester. No. 1,378,427; May 17; v. 286; p. 500.
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Liquid-rheostat. No. 1,376,470; May 3; v. 286; p. 18.
Slick, Edwin E., Westmont borough, Pa. Wheel. No. 1,377,634; May 10; v. 286; p. 296.
Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Drawing sheet-glass. No. 1,376,975; May 3; v. 286; p. 114.
Slocum, Conrad A., Sedro Woolley, Wash. Variable-speed power transmission. No. 1,378,570; May 17; v. 286; p. 527.
Slocum, Maurice G., St. Joseph, Mo. Apparatus for the production of a chlorin solution. No. 1,376,471; May 3; v. 286; p. 18.
Smalley, Paul C., Newark, N. J. Flashlight device. No. 1,376,976; May 3; v. 286; p. 114.
Smedley, Walter, Crewe, England. Device for driving shafts. No. 1,379,941; May 31; v. 286; p. 934.
Smelley, William L., Demorest, Ga. Injection-pump. No. 1,378,571; May 17; v. 286; p. 527.
Smidth, F. L., & Co. (See Middelboe, Kristian, assignor.)
Smith, Albert D. (See Stahr, Wilbert H., assignor.)
Smith, Alford A., and R. Jorgensen, Milwaukee, Wis. Adjustable seat attachment for automobiles. No. 1,379,316; May 24; v. 286; p. 743.
Smith, Alfred E., London, England. Slip-hook. No. 1,379,786; May 31; v. 286; p. 904.
Smith, Basil L., Philadelphia, Pa. Standardized classified ad-copy blank. No. 1,377,855; May 10; v. 286; p. 339.
Smith, Bettie W., *et al.* (See Smith, Edward M., assignor.)
Smith, Charles S., *et al.* (See Stanley, E. S., and Gay, assignors.)
Smith, Chetwood, Worcester, assignor to Stack Heater Company, Boston, Mass. Indirect water-heating apparatus. No. 1,379,581; May 24; v. 286; p. 792.
Smith, Christian N., Elgin, Ill. Machine for making stereotype-molds. No. 1,379,317; May 24; v. 286; p. 743.
Smith, David J., London, England. Gas-producer. No. 1,377,935; May 10; v. 286; p. 355.
Smith & Davis Manufacturing Company. (See Jones, Benjamin H., assignor.)
Smith, Edward M., assignor of one-third to B. W. Smith, Kansas City, and one-third to R. E. Smith, St. Louis, Mo. Time-calculating machine. No. 1,377,856; May 10; v. 286; p. 339.
Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,377,975; May 10; v. 286; p. 362.
Smith, Emanuel, Wallace, Idaho. Drawknife. No. 1,376,651; May 3; v. 286; p. 51.
Smith, Ernest T. (See Hescock, E. N., and Smith.)
Smith, Eugene G., Chicago, Ill. Axle transmission for railway-cars. No. 1,379,055; May 24; v. 286; p. 692.
Smith, Frederick, Darby, Pa. Prepayment gas-meter. No. 1,377,635; May 10; v. 286; p. 296.
Smith, Floyd, Chicago, Ill., assignor to Floyd Smith Aerial Equipment Company. Landing attachment for parachutes. No. 1,378,198; May 17; v. 286; p. 457.
Smith, Floyd Aerial Equipment Company. (See Smith, Floyd, assignor.)
Smith, Friend W., Bridgeport, Conn., assignor to American Chain Company. Wire chain. No. 1,379,131; May 24; v. 286; p. 708.

Smith, George F., Germantown, Pa. Automobile-lock. No. 1,377,100; May 3; v. 286; p. 137.

Smith, George T., assignor of seventeen and two-thirds per cent. to D. D. Sheldon and one-third to C. P. Sheldon, Wichita Falls, Tex. Flour-milling machinery. No. 1,377,976; May 10; v. 286; p. 362.

Smith, George W., Chicago, Ill. Pad-supporting stand. No. 1,379,132; May 24; v. 286; p. 708.

Smith, Grant E., assignor to Pouvailsmith Corporation, Poughkeepsie, N. Y. Steering-wheel. No. 1,377,734; May 10; v. 286; p. 315.

Smith, Harman L. (See Hilliard, Frank H., assignor.)

Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Purification of gas. No. 1,379,056; May 24; v. 286; p. 693.

Smith, Homer P., assignor to Scolding Locks Hairpin Co., Appleton, Wis. Packing-machine for hairpins. No. 1,378,626; May 17; v. 286; p. 538.

Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Electrical measuring apparatus. No. 1,378,983; May 24; v. 286; p. 679.

Smith, Jay H. (See West, W. P., and Smith.)

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,377,446; May 10; v. 286; p. 261.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,378,627; May 17; v. 286; p. 539.

Smith, John H., assignor to the Eclipse Interchangeable Counterbore Company, Detroit, Mich. Adjustable toolholder. No. 1,378,290; May 17; v. 286; p. 474.

Smith, John R. C., Victoria, British Columbia, Canada. Speed-indicator. No. 1,377,636; May 10; v. 286; p. 296.

Smith, John W., Philadelphia, Pa. Air-pump. No. 1,378,910; May 24; v. 286; p. 665.

Smith, Maurice M., New York, N. Y. Game apparatus. No. 1,377,936; May 10; v. 286; p. 355.

Smith, Oliver W., Los Angeles, Calif. Valve for steam and water systems. No. 1,379,840; May 31; v. 286; p. 915.

Smith, Owen P., Chicago, Ill. Dog-racing amusement. No. 1,379,224; May 24; v. 286; p. 725.

Smith, Primus W., Junction City, Kans. Shade-roller. No. 1,376,977; May 3; v. 286; p. 114.

Smith, Richard I., assignor of two-fifths to A. Martin, Omaha, Nebr. Medicine-administering instrument for hogs. No. 1,378,199; May 17; v. 286; p. 457.

Smith, Robert E., *et al.* (See Smith, Edward M., assignor.)

Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pinning-out machine for drill-steels. No. 1,379,225; May 24; v. 286; p. 726.

Smith, William H., New Haven, Conn. Garter. No. 1,379,787; May 31; v. 286; p. 905.

Snapp, Leonard R., Columbus, Ohio. Vehicle-body. No. 1,380,083; May 31; v. 286; p. 961.

Snelling, Samuel A., and B. M. Saner, assignors of one-half to said B. M. Saner and one-half to J. A. Farina, Chicago, Ill. Doily-stretcher. No. 1,378,826; May 17; v. 286; p. 577.

Snelling, Walter O., Pittsburgh, Pa. Apparatus for mixing fluids. No. 1,378,384; May 17; v. 286; p. 491.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,378,907; May 24; v. 286; p. 665.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,908; May 24; v. 286; p. 665.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,909; May 24; v. 286; p. 665.

Snow, Philo V., assignor to The Radiotone Photo Co., Chicago, Ill. Photographic prints on metal. (Reissue.) No. 15,103; May 10; v. 286; p. 367.

Snyder, Frederick T., Oak Park, assignor to Industrial Electric Furnace Company, Chicago, Ill. Electric furnace and operating same. No. 1,379,942; May 31; v. 286; p. 934.

Snyder, George C., assignor of one-sixth to F. K. Hoffman and one-sixth to E. T. I. Thygeson, New York, N. Y. Package-tie. No. 1,376,472; May 3; v. 286; p. 18.

Societe Anonyme Des Etablissements, A. Oller. (See Roussillon, Philippe, assignor.)

Société Anonyme Des Fours a Coke Semet-Solvay, & Piette. (See Piette, Olivier, assignor.)

Société Auxiliaire d' Exploitations Industrielles. (See Mauger, Nestor, assignor.)

Societe De Stearinerie et Savonnerie De Lyon. (See Radisson, A., and Berthon, assignor.)

Société Franco-Belge De Fours a Coke, The. (See Piette, Olivier, assignor.)

Societe Lyonnaise Des Richauds Catalytiques Camell, Cochet, Gritte & Cie. (Societe en commandate.) (See Camell, R. Cochet, and Gritte, assignors.)

Societe dite: Rochette Frères. (See Miguet, Paul, assignor.)

Society Fabriques des Moutres Zenith successeur de Fabriques des Moutres Zenith, Georges Favre-Tacot & Cie., The. (See Andreino, Hector, assignor.)

Society of Chemical Industry in Basle. (See Gams, A., and Kaiser, assignors.)

Solaini, Peter, Astoria, N. Y. Lock. No. 1,380,116; May 31; v. 286; p. 967.

Solaini, Peter, Astoria, N. Y. Lock. No. 1,380,117; May 31; v. 286; p. 968.

Solomon, Edgar J., assignor to Avery Company, Peoria, Ill. Traction-wheel. No. 1,377,289; May 10; v. 286; p. 230.

Sommer, John, Peoria, Ill. Excavating-machine. No. 1,376,837; May 3; v. 286; p. 87.

Sommer, William H., Peoria, Ill., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustees. Wire fence. No. 1,378,489; May 17; v. 286; p. 512.

Sommermeyer, Frank R., Minneapolis, Minn. Stage-effect-controlling device for use in conjunction with motion-picture machines. No. 1,379,654; May 31; v. 286; p. 881.

Somora, Joseph, Chicago, Ill. Combination keyhole-guard. No. 1,380,260; May 31; v. 286; p. 994.

Sonander, Andrew, assignor to Howe Scale Company, Rutland, Vt. Scale. No. 1,379,726; May 31; v. 286; p. 894.

Soper, Walter R., Lynn, Mass., assignor to Associated Tanners Machinery Co. Glazing-machine. No. 1,376,473; May 3; v. 286; p. 18.

Sörensen, Marius M., Vallerød, near Rungsted, Denmark. Appliance for riding the margin of the sole of footgear. No. 1,376,474; May 3; v. 286; p. 19.

Soresi, Angelo L., New York, N. Y., assignor to International Surgical Instruments Company, Inc. Rotary cutting and drilling instrument. No. 1,377,288; May 10; v. 286; p. 230.

Soresi, Angelo L., New York, N. Y. Collar. No. 1,378,142; May 17; v. 286; p. 447.

Stage, Albert A., Grand Rapids, Mich. Ladder. No. 1,377,977; May 10; v. 286; p. 363.

Soss, Joseph, New York, N. Y. Method of and apparatus for making die-castings. No. 1,378,984; May 24; v. 286; p. 679.

Soulacroix, Gabriel A. V., Paris, France. Buckle for straps, belts, and the like. No. 1,380,261; May 31; v. 286; p. 994.

Southwick, Albert A., New York, N. Y. Designer's tool. No. 1,376,475; May 3; v. 286; p. 19.

Spalding, A. G., & Bros. (See Orr, William J., assignor.)

Spalding, A. G., & Bros. (See Pierce, George L., assignor.)

Spangler, John B., *et al.* (See Lickiss, Ernest E., assignor.)

Sparkes-Withington Company, The. (See Withington, Philip H., assignor.)

Sparling, John E., Boston, Mass. Shaft-coupling. No. 1,377,101; May 3; v. 286; p. 138.

Sparre, Fin, and W. E. Masland, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorination. No. 1,379,367; May 24; v. 286; p. 752.

Sparrow, William T., Newport News, Va. Pneumatic centering-punch. No. 1,380,118; May 31; v. 286; p. 968.

Spearman, Charles, Westmount, Quebec, Canada. Flotation process. No. 1,377,937; May 10; v. 286; p. 355.

Specht, H. Mortimer. (See Scheele, Walter T., assignor.)

Spechtmeier, Heinrich, Bargteheide, Germany. Tow-hook for steam-tugs. No. 1,377,159; May 3; v. 286; p. 148.

Speece, Russell W., Hondo, Tex. Coupling. No. 1,379,133; May 24; v. 286; p. 708.

Speer, Alexander S., Chicago, Ill., assignor, by mesne assignments, to The Roofing Patents Company. Method and apparatus of coating material. No. 1,379,368; May 24; v. 286; p. 753.

Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Making roofing-slabs. No. 1,379,727; May 31; v. 286; p. 894.

Speight, Alfred, Wimbledon Park, England. Speedometer. No. 1,378,428; May 17; v. 286; p. 500.

Spelling, Thomas C., New York, N. Y. Combinations of closures and pullers for bottles and other containers. No. 1,377,527; May 10; v. 286; p. 275.

Spelling, Thomas C., New York, N. Y. Fountain-pen. No. 1,379,057; May 24; v. 286; p. 693.

Spencer, Charles G. (See Toomey, J. F., and Spencer.)

Spencer, Ira H., assignor to The Spencer Turbine Company, West Hartford, Conn. Suction or blowing apparatus. No. 1,377,998; May 10; v. 286; p. 367.

Spencer, Thomas, Lakewood, Ohio, assignor to National Carbon Company, Inc. Secondary battery. No. 1,377,227; May 10; v. 286; p. 217.

Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)

Sperry, Elmer A., Brooklyn, N. Y. Arc striking and extinguishing apparatus. No. 1,379,881; May 31; v. 286; p. 923.

Sperry, Elmer A., Brooklyn, N. Y. Driving and governing means for torpedoes. No. 1,378,291; May 17; v. 286; p. 474.

Sperry Gyroscope Company, The. (See Sperry, Lawrence B., assignor.)

Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)

Sperry, John B., assignor to The American Well Works, Aurora, Ill. Pump. No. 1,379,704; May 31; v. 286; p. 890.

Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Transmission-gearing. No. 1,378,490; May 17; v. 286; p. 512.

Spielman, Milton H., Cleveland, Ohio. Electric power mechanism. No. 1,380,162; May 31; v. 286; p. 976.

Spielman, Milton H., assignor to The Domestic Electric Company, Cleveland, Ohio. Vacuum-cleaner switch-operating mechanism. No. 1,380,163; May 31; v. 286; p. 976.

Spirewka, John S., Jr., assignor of one-third to D. C. O'Connell and one-third to J. E. O'Connell, Milwaukee, Wis. Burglar-alarm. No. 1,379,058; May 24; v. 286; p. 693.

Spiltdorf Electrical Company. (See Cotterman, F. W., assignor.)

Spiltdorf Electrical Company. (See Dean, William W., assignor.)

Spohrer, Gregory J., East Orange, N. J., assignor to The Motor-Compressor Company. Starting mechanism for internal-combustion engines. No. 1,376,838; May 3; v. 286; p. 87.

Spong, George H., Portsmouth, Va. Wrench. No. 1,379,482; May 24; v. 286; p. 773.

Sponsel, Charles W., Hartford, Conn., assignor to The Fairbanks Company, New York, N. Y. Wheeled vehicle. No. 1,380,119; May 31; v. 286; p. 968.

Spooner, Harry M. (See Manchester, A. P., and Spooner.)

Springfield Metallic Casket Company, The. (See Watts-Thomas A., assignor.)

Stacey, Alfred E., Jr., Chicago, Ill., assignor to Carrier Engineering Corporation, New York, N. Y. Thermoresponsive instrument. No. 1,377,735; May 10; v. 286; p. 315.

Stack Heater Company. (See Smith, Chetwood, assignor.)

Stafford, Frederick S., assignor to H. G. Saal, Chicago, Ill. Window. No. 1,378,292; May 17; v. 286; p. 474.

Stafford, Orin F., Eugene, Oreg. Destructive distillation. No. 1,380,262; May 31; v. 286; p. 994.

Stafford, Sidney E., Ashdown, Ark. Automatic mail-box signal. No. 1,380,164; May 31; v. 286; p. 976.

Stage, Harold L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Unitary regulating and controlling means for drill-feed mechanism. No. 1,378,491; May 17; v. 286; p. 512.

Stahr, Wilbert H., assignor of one-half to A. D. Smith, Elgin, Ill. Hair-cutting device. No. 1,378,911; May 24; v. 286; p. 660.

Stalder, Edward J., Chicago, Ill. Bed construction. No. 1,378,293; May 17; v. 286; p. 475.

Stålhane, Otto, and O. O. Kring, Djursholm, Sweden. Contact-pin for connecting-plugs and the manufacture thereof. No. 1,376,735; May 3; v. 286; p. 67.

Stallings, L. G., *et al.* (See Roach, William H., assignor.)

Stallkamp, Albert L. (See Koch, G. T., and Stallkamp.)

Stambaugh, Ray E., Sheridan, Wyo. Table. No. 1,377,102; May 3; v. 286; p. 138.

Stamps, Frederick A., Niagara Falls, assignor to Oldbury Electro-Chemical Company, Harrison, N. Y. Process and apparatus for mixing gases. No. 1,378,429; May 17; v. 286; p. 500.

Standard Fender Co. (See Jensen, C. C., and Irwin, assignors.)

Standard Manufacturing Company, The. (See Ellis, William F., assignor.)

Standard Manufacturing Company, The. (See Ellis, W. F., and Garland, assignors.)

Standard Oil Company. (See Burgess, Louis, assignor.)

Standard Oil Company. (See Flynn, Edward J., assignor.)

Standard Oil Company of New York. (See French, Charles L., assignor.)

Standard Parts Company, The. (See Keys, Walter C., assignor.)

Standard Parts Company, The. (See Manternach, John C., assignor.)

Standard Piston Ring Co. (See E. J. Rogers, assignor.)

Standard Scale & Supply Company. (See McGarvey, Edward, assignor.)

Standard Steel Car Company. (See Anderson, Harry T., assignor.)

Standard Steel Car Company. (See Christianson, Andrew, assignor.)

Stanfield, George. (See Fairholme, F. C., Hatfield, and Stanfield.)

Stangland, Oliver, St. Louis, Mo. Mounting for anti-friction-bearings. No. 1,377,637; May 10; v. 286; p. 296.

Stanley, Albert, Indianapolis, Ind. Tank-filler and contents-indicator. No. 1,379,226; May 24; v. 286; p. 725.

Stanley, Edward S., and C. B. Gay, Whitman, assignors of one-fifth to C. S. Smith, Lincoln, Mass.; one-fifth to F. H. White, Charlotte, N. C., and one-fifth to E. Clark, Abington, Mass. Cock and valve. No. 1,378,492; May 17; v. 286; p. 512.

Stanley Works, The. (See Bodmer, Christian, assignor.)

Stannard, Winfield H. (See Loomis, A. L., Klopsteg, Agnew, and Stannard.)

Staples and Seefeld. (See Staples, George, assignor.)

Staples, George, Oshkosh, assignor to Staples and Seefeld, Milwaukee, Wis. Antiskid device. No. 1,379,059; May 24; v. 286; p. 693.

Star Rubber Company, The. (See Gostlin, Frederick J., assignor.)

Stark, Ottmar G. (See Flammang, John, assignor.)

Starks, George L., Harrietstown, N. Y. Reclining-chair. No. 1,377,605; May 10; v. 286; p. 290.

Starling, Sydney G., Forest Gate, and A. J. Hughes, assignors to Henry Hughes and Son Limited, London, England. Aneroid barometer. No. 1,377,032; May 3; v. 286; p. 125.

Starr, Wyatt C., Hosford, Fla. Tread-wheel. No. 1,377,447; May 10; v. 286; p. 261.

Steadworthy, Henry. (See Cooper, F. W., and Steadworthy, assignors.)

Stearns, George H., Roxbury, Mass. Rotary engine. No 1,378,430; May 17; v. 286; p. 501.

Steddom, Calvin B., Los Angeles, Calif. Desk. No. 1,379,134; May 24; v. 286; p. 708.

Steedman, Henry P. G., London, England, assignor to Verplex Art Company, Inc. Reproduction of oil-paintings. No. 1,376,652; May 3; v. 286; p. 51.

Steedman, Henry P. G., London, England, assignor to Verplex Art Company, Inc. Reproducing oil-paintings. No. 1,376,653; May 3; v. 286; p. 51.

Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)

Steenstra, George, assignor of one-half to L. Van Berg, St. Louis, Mo. Fender for automobiles and trucks. No. 1,377,736; May 10; v. 286; p. 315.

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,378,493; May 17; v. 286; p. 513.

Stein, Adolph H., executor. (See Hauck, Arthur E., assignor.)

Stein, George W., Chicago, Ill. Window-lock. No. 1,380,263; May 31; v. 286; p. 995.

Stein, Meyer, assignor of one-half to P. Stein, Springfield, Ill. Acetylene-lamp. No. 1,376,654; May 3; v. 286; p. 52.

Stein, Philip. (See Stein, Meyer, assignor.)

Steinberg, Henry G., Milwaukee, Wis. Capstan device for motor-trucks. No. 1,378,734; May 17; v. 286; p. 560.

Steinbock, Philip, New York, N. Y. Self-lubricating dust-proof sewing-machine. No. 1,380,120; May 31; v. 286; p. 968.

Steinen, Otto. (See La Fontaine, George A., assignor.)

Steinkamp, George F., Cincinnati, Ohio. Bath-room fixture. No. 1,379,318; May 24; v. 286; p. 743.

Stelk, John. (See Szameit, Mieczyslaw J., assignor.)

Stenger, Leonard U., and R. Summerfield, Alameda, Calif. Demountable rim. No. 1,378,494; May 17; v. 286; p. 513.

Stenning, Walter E., Providence, R. I. Portable electric engraving instrument. No. 1,379,841; May 31; v. 286; p. 915.

Stephenson, Harry, Andover, Mass. Textile-machine. No. 1,378,912; May 24; v. 286; p. 666.

Stepke, Erna M., Detroit, Mich. Child's sanitary bed-swing. No. 1,376,476; May 3; v. 286; p. 19.

Sterling, Montagu M. (See Carter, Charles H., assignor.)

Stern, David. (See Jellinek, C., and Stern.)

Stern, Milton C., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. No. 1,378,628; May 17; v. 286; p. 539.

Sterner, William R., Chicago, Ill. Combination screen and storm-sash. No. 1,379,227; May 24; v. 286; p. 725.

Stertzbach, Harry W. (See Johnson, G. T., and Stertzbach.)

Stettler, Gottfried, assignor to National Dairy Machine Company, Goshen, Ind. Side-car attachment for motorcycles. No. 1,379,655; May 31; v. 286; p. 881.

Steuterman, Frank M., St. Louis, Mo. Foldable receptacle. No. 1,377,638; May 10; v. 286; p. 296.

Steuterman, Otto A., Reading, Mass. Headlight for automobiles. No. 1,380,264; May 31; v. 286; p. 995.

Stevens, Amy, *et al.* (See Traphagan, Frank M., assignor.)

Stevens, Frank M. (See Maple, Edward J. and C. J., assignors.)

Stevens, Fremont C., assignor to American Building Products Company, Chicago, Ill. Measuring device. No. 1,378,572; May 17; v. 286; p. 528.

Stevens, Sidney, Millinocket, Me. Testing device. No. 1,376,655; May 3; v. 286; p. 52.

Stevens, Sidney, Millinocket, Me. Chair for infirm people. No. 1,379,943; May 31; v. 286; p. 934.

Stevens, William C., Akron, Ohio, assignor to Pierce Wrapping Machine Company. Wrapping-machine folder. (Reissue.) No. 15,099; May 3; v. 286; p. 151.

Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-cementing apparatus. No. 1,379,369; May 24; v. 286; p. 753.

Stevenson, David W., Berkeley, Calif. Dispensing card-case. No. 1,378,294; May 17; v. 286; p. 475.

Stevenson, John. (See Adam, M. A., Stevenson, and Mabbitt.)

Stevenson, William G., Chicago, Ill. Rock-crusher roll. No. 1,377,370; May 10; v. 286; p. 246.

Stewart, Arthur L.; E. W. Bullock, and S. H. Earl, assignors to Gleason Works, Rochester, N. Y. Tool mechanism for gear-cutting machines. No. 1,378,629; May 17; v. 286; p. 539.

Stewart, Carlton D., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Automatic fuel-stoking apparatus. No. 1,378,385; May 17; v. 286; p. 492.

Stewart, Claude A. W., Sydney, New South Wales, Australia. Case-hardening preparation. No. 1,379,319; May 24; v. 286; p. 743.

Stewart, Ernest, *et al.* (See Ziegler, George J., assignor.)
Stewart, James, & Company, *et al.* (See Budd, Thomas D., assignor.)
Stewart-Warner Speedometer Corporation. (See Goetz, Oscar H., assignor.)
Stewart-Warner Speedometer Corporation. (See Risinger, Frank V., assignor.)
Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Locking device. No. 1,377,290; May 10; v. 286; p. 230.
Stickle, Cole, Indianapolis, Ind. Steam-pressure regulator. No. 1,378,630; May 17; v. 286; p. 539.
Stickney, Benjamin R., Washington, D. C. Web intaglio-printing press. No. 1,378,386; May 17; v. 286; p. 492.
Stieper, Richard F., West Side, Iowa. Combined planter and fender for cultivators. No. 1,379,842; May 31; v. 286; p. 915.
Stiglitz, John W., San Jose, Calif. Dispensing apparatus. No. 1,379,291; May 24; v. 286; p. 737.
Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,377,639; May 10; v. 286; p. 297.
Stitzer, David. (See Stitzer, Oscar B., assignor.)
Stitzer, Oscar B., assignor of one-half to D. Stitzer, Louisville, Ky. Support. No. 1,380,121; May 31; v. 286; p. 908.
Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,376,477; May 3; v. 286; p. 19.
Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,376,478; May 3; v. 286; p. 19.
Stocum, Philip W. (See Hotchkiss, L. A., and Stocum.)
Stoddard, Ray F., Dayton, Ohio. Electric display. No. 1,378,495; May 17; v. 286; p. 513.
Stodden, George, Stratford, Conn., assignor to American Chain Company, Inc. Lifting-jack. No. 1,377,640; May 10; v. 286; p. 297.
Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulator for alternating currents. No. 1,376,978; May 3; v. 286; p. 114.
Stokes, Harlow T., Brooklyn, N. Y. Hydroaeroplane. No. 1,378,387; May 17; v. 286; p. 492.
Stokes, J. Stogdell. (See Novotny, Emil E., assignor.)
Stokes, John C., Shreveport, La. Drill and underreamer. No. 1,379,483; May 24; v. 286; p. 774.
Stokes, John S. (See Yeoell, William J., assignor.)
Stolberg, Otto H., San Francisco, Calif. Electric safety-lock. No. 1,378,200; May 17; v. 286; p. 457.
Stoler, Warren W., Detroit, Mich. Drop-hammer. No. 1,380,326; May 31; v. 286; p. 1007.
Stolle, Raymond A. (See Heinlein, E. A., and Stolle.)
Stolley, William A., assignor to James Heddon's Sons Inc., Dowagiac, Mich. Artificial bait. No. 1,376,590; May 3; v. 286; p. 40.
Stone, Andrew J., Washington, D. C., assignor to the Government of the United States. Method of and apparatus for delivering torpedo attacks from aircraft. No. 1,379,788; May 31; v. 286; p. 905.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Terminal for electrical purposes. No. 1,378,201; May 17; v. 286; p. 457.
Stone, Herbert C., Brooklyn, N. Y. Vehicle loading and unloading device. No. 1,378,631; May 17; v. 286; p. 539.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,913; May 24; v. 286; p. 666.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,914; May 24; v. 286; p. 666.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,915; May 24; v. 286; p. 665.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,916; May 24; v. 286; p. 665.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,917; May 24; v. 286; p. 667.
Storer, Hugh A., Alton, Kans. Magazine attachment for stoves. No. 1,379,484; May 24; v. 286; p. 774.
Storrie, William, assignor to Apco Manufacturing Company, Providence, R. I. Crank-case support for automobiles. No. 1,377,857; May 10; v. 286; p. 340.
Story, Elliott M., Braintree, Mass. Toy. No. 1,379,944; May 31; v. 286; p. 934.
Story, Ward B., Brooklyn, assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Bookbinding-machine. No. 1,380,265; May 31; v. 286; p. 995.
Stosech, Peter H., Cliffside, N. J. Combination-lock. No. 1,377,737; May 10; v. 286; p. 315.
Stoughton, Bradley, New York, N. Y. Smelting or fusing metallic substances. No. 1,376,479; May 3; v. 286; p. 19.
Stout, William B., assignor to Packard Motor Car Company, Detroit, Mich. Aircraft. No. 1,377,858; May 10; v. 286; p. 340.
Stovall, Columbus D., Lexington, Ky. Alloy. No. 1,376,656; May 3; v. 286; p. 52.
Stowe, Loyd R., Maplewood, Mo. Grate-chain. No. 1,379,135; May 24; v. 286; p. 708.
Stoy, William E., Juneau, Alaska. Clutch. No. 1,379,728; May 31; v. 286; p. 894.
Strachansky, Maurice, *et al.* (See Sundel, Samuel, assignor.)
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Gang-plow. No. 1,376,787; May 3; v. 286; p. 77.
Strange, Bascum L., Hernando, Fla. Stovepipe-clamp. No. 1,378,143; May 17; v. 286; p. 447.
Strauss, Emil A., Chicago, Ill. Vault construction. No. 1,376,839; May 3; v. 286; p. 87.
Straw, Bruce P., Cumberland, Md. Draft-rigging. No. 1,376,480; May 3; v. 286; p. 19.
Street, Norman A., *et. al.* (See Blood, Burr B., assignor.)
Streeton, James W. (See Noll, Henry, assignor.)
Streich, Edward C., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
Streich, M. C., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
Strickland, Fred, Anderson, S. C. Oil-extracting apparatus. (Reissue.) No. 15,116; May 31; v. 286; p. 1009.
Strickland, Orlen S., and G. W. Wood, Portales, N. Mex. Automobile safety-crank. No. 1,379,320; May 24; v. 286; p. 743.
Strickland, Silas A., assignor to Detroit Accessories Corporation, Detroit, Mich. Pump for motor-vehicles. No. 1,376,903; May 3; v. 286; p. 100.
Strobel, Roger L., East Helena, Mont., assignor to American Smelting and Refining Company. Muffler-burner. No. 1,376,979; May 3; v. 286; p. 114.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
Stromberg, Charles A., Port Townsend, Wash. Cabinet. No. 1,377,938; May 10; v. 286; p. 356.
Stromberg, Henry H., Chicago, Ill. Phonographic reproducer. No. 1,378,144; May 17; v. 286; p. 447.
Stromberg Motor Devices Company. (See Taylor, Harry P., assignor.)
Strong, William H. S., Sandusky, Ohio. Mangle. No. 1,380,266; May 31; v. 286; p. 995.
Strosnider, John K., Sugar Grove, Ohio. Automobile-lock. No. 1,377,224; May 10; v. 286; p. 217.
Stroup, George C., Jersey City, assignor of one-half to J. H. Bradshaw, Palisades, N. J. Car-coupling release. No. 1,380,122; May 31; v. 286; p. 969.
Stryker, Julius B. B. (See Perkins, J. G. B., and Stryker.)
Stryker, Julius B. B. (See Williams, F. S., Perkins, and Stryker.)
Stuart, Fredrik, Philadelphia, Pa. Necktie-form. No. 1,380,267; May 31; v. 286; p. 995.
Stuart, George S., Bradford, Pa. Emergency device for use with automobiles. No. 1,379,485; May 24; v. 286; p. 774.
Studt, Franz E., London, England. Electrolytic deposition of copper from acid solutions. No. 1,378,145; May 17; v. 286; p. 447.
Stull, Gideon M., *et al.* (See Law, William E., assignor.)
Stumme, Emil C., Readlyn, Iowa. Coin-sorter. No. 1,376,904; May 3; v. 286; p. 100.
Sturd-Truck Company, The. (See Hennessy, Daniel E., assignor.)
Sturges, Norman D., Bellerose, N. Y., assignor to Multiple Storage Battery Co. Seal for batteries. No. 1,376,905; May 3; v. 286; p. 100.
Sturtevant, B. F., Company. (See Hagen, Harold F., assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,378,060; May 17; v. 286; p. 431.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,379,730; May 31; v. 286; p. 894.
Submersible & J-L Motors. (See Durnford, Charles W., assignor.)
Success Cone Co. (See Israel, Isaac, assignor.)
Sugar Centrifugal Discharger Co. (See Roberts, E., and Gibson, assignors.)
Suhr, Anthon, Gibbon, Nebr. Hand and wrist protector. No. 1,377,103; May 3; v. 286; p. 138.
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan, Michael J., Holyoke, Mass. Cuff-button. No. 1,380,268; May 31; v. 286; p. 996.
Sullivan, William E., Roodhouse, Ill. Portable lighting plant. No. 1,380,123; May 31; v. 286; p. 969.
Sumersille, Alano E., San Juan, Porto Rico. Dividers. No. 1,380,269; May 31; v. 286; p. 996.
Summerfield, Ralph. (See Stenger, L. U., and Summerfield.)
Summers, John H., and E. S. Kirk, Taft, Calif. Valve. No. 1,379,136; May 24; v. 286; p. 709.
Sumner, Henry W., Seattle, Wash. Igniter. No. 1,379,060; May 24; v. 286; p. 693.
Sundel, Samuel, assignor of one-half to L. M. Rudman, New Haven, and one-half to M. Strachansky, East Haven, Conn. Portable burglar alarm. No. 1,377,939; May 10; v. 286; p. 356.
Sundstrand, Oscar J., Rockford, Ill. Check-protector. No. 1,378,496; May 17; v. 286; p. 513.
Surico, Carmine. (See Fumagalli, G. Surico, and Cardone.)
Susemihl, Theresa M., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Disazo dye. No. 1,378,388; May 17; v. 286; p. 492.

Sutherland, Egbert C., assignor to Naamlooze Vennootschap Industrieele Maatschappij voorheen Noury & van der Lande, Deventer, Netherlands. Treating meal or flour and milling products. No. 1,380,334; May 31; v. 286; p. 1008.
Sutherland, Elizabeth M., Kansas City, Mo. Hairpin. No. 1,377,859; May 10; v. 286; p. 340.
Svec, Andro, Ashley, Pa. Toy roundabout. No. 1,379,486; May 24; v. 286; p. 774.
Svendsen, Charles L. E., Kirkland, and C. A. Johnson, Seattle, Wash. Automatic camera-shutter trip. No. 1,377,528; May 10; v. 286; p. 275.
Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
Swain, Charles F. J., Chicago, Ill. Soft collar. No. 1,378,061; May 17; v. 286; p. 431.
Swan, John C., Marietta, Ohio. Preventing caving in wells. No. 1,379,656; May 31; v. 286; p. 881.
Swan, John C., Marietta, Ohio. Excluding extraneous fluids from wells. No. 1,379,657; May 31; v. 286; p. 881.
Swan, John W., Stamford, Conn. System of carburation. No. 1,377,606; May 10; v. 286; p. 290.
Swank, Lafe, and J. E. Van Deventer, assignors to Dwiggins Wire Fence Company, Anderson, Ind. Wire-fence loom. No. 1,380,165; May 31; v. 286; p. 977.
Swanson, Axel R., Chicago, Ill. Means for securing tools in boring-bars. No. 1,378,062; May 17; v. 286; p. 431.
Swanson, Olaf J., Chappaqua, N. Y. Safety device for manholes. No. 1,379,487; May 24; v. 286; p. 774.
Swartz, William A., York, Pa. Panel-clamp. No. 1,379,882; May 31; v. 286; p. 923.
Swenson, Carl E. (See Anderson, C. L., and Swenson.)
Swenson, Carl E., assignor of one-fourth to L. Faust, one-fourth to E. S. Ekstrom, and one-fourth to C. L. Anderson, Rockford, Ill. Universal joint. No. 1,380,270; May 31; v. 286; p. 996.
Swick, Clyde E., San Francisco, Calif., assignor to Hawley Pulp and Paper Company. Interfolded-paper pack. No. 1,378,063; May 17; v. 286; p. 432.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Cabinet for paper drinking-cups. No. 1,379,228; May 24; v. 286 p. 726.
Swope, Ralph S., Redfield, S. D. Auto-jack and power mechanism. No. 1,378,632; May 17; v. 286; p. 540.
Swygart, Edward B., *et al.* (See Heinle, Albert W., assignor.)
Syes, Clarence L., and S. Mitchell, Ault, Colo. Dam or check. No. 1,379,137; May 24; v. 286; p. 709.
Sylvan, Joseph, Chicago, Ill. Window construction. No. 1,379,061; May 24; v. 286; p. 694.
Symington, T. H., Company, The. (See Symington, Thomas H., assignor.)
Symington, Thomas H., Baltimore, Md., assignor, by mesne assignments, to The T. H. Symington Company, New York, N. Y. Draft-rigging. No. 1,378,633; May 17; v. 286; p. 540.
Szakács, Joseph, and S. Ferencz, Cleveland, Ohio. Life-belt. No. 1,377,033; May 3; v. 286; p. 125.
Szamelt, Mieczyslaw J., assignor of one-half to J. Stelk, Chicago, Ill. Theft-preventing means for vehicles. No. 1,379,292; May 24; v. 286; p. 737.
Szatmary, Jacob, New York, N. Y. Attachment for grinding thread-cutting tools. No. 1,379,370; May 24; v. 286; p. 753.
Szczygiel, Michal, Fall River, Mass. Station-indicator. No. 1,377,228; May 10; v. 286; p. 218.
Szumilas, Jan. (See Czyzowicz, M., and Szumilas, assignors.)
Szywka, John, Albany, N. Y. Ice-velocipede. No. 1,379,488; May 24; v. 286; p. 775.
Taber, Elliott R., Acushnet, Mass. Intake-heater for automobile. No. 1,376,980; May 3; v. 286; p. 114.
Tabor, Thomas H., Ellijay, Ga. Quoit. No. 1,379,883; May 31; v. 286; p. 923.
Tabulating Machine Company, The. (See Lake, Clair D., assignor.)
Taft, John A., San Antonio, assignor, by mesne assignments, to H. H. Dickson, Harris county; G. R. Bennett, Travis county; J. M. Bennett and S. J. Brooks, Bexar county, Tex. Condenser for cotton-presses. No. 1,379,229; May 24; v. 286; p. 726.
Taft-Peirce Manufacturing Company, The. (See Martell, Albert A., assignor.)
Taigman, Max, New York, N. Y. Electrically-controlled transmission. No. 1,378,146; May 17; v. 286; p. 447.
Tainter, Charles R. (See Lenhoff, John E., assignor.)
Tait, Wilfred E., and W. Milnes, Winthrop, Mass. Chuck. No. 1,379,658; May 31; v. 286; p. 881.
Takagi, Kisaburo. (See Matsumoto, K., and Takagi.)
Talbot, George H., Newtonville, Mass. Building-block. No. 1,378,735; May 17; v. 286; p. 560.
Talbot, Russell A., Cranston, R. I. Cigarette-case. No. 1,379,659; May 31; v. 286; p. 882.
Taliaferro, Thomas L., Chicago, Ill. Jar-closure. No. 1,378,295; May 17; v. 286; p. 475.
Tanner Engineering Company, The. (See Tanner, Harry L., assignor.)
Tanner, Harry L., assignor to The Tanner Engineering Company, Inc., Brooklyn, N. Y. Dynamo-field regulator. No. 1,377,229; May 10; v. 286; p. 218.
Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electrical distribution system for gyroscopic compasses. No. 1,378,296; May 17; v. 286; p. 475.
Tanner, Rudolf A. (See Ekern, A., and Tanner.)
Taplex Corporation. (See Fritzsche, George H., assignor.)
Tapscott, John C., El Paso, Tex. Toupee and wig retainer. No. 1,378,147; May 17; v. 286; p. 448.
Taylor, Arthur K., assignor to Taylor Registering Projector Company, Baltimore, Md. Printing-block and making the same. No. 1,378,573; May 17; v. 286; p. 528.
Taylor, Daniel E., Willimantic, Conn., assignor to The L. D. Caulk Co., Milford, Del. Filling teeth and dental matrix for use therein. No. 1,379,489; May 24; v. 286; p. 775.
Taylor, Elmer E., Loogootee, Ind. Sound-concentrator for telephone-transmitters. No. 1,377,940; May 10; v. 286; p. 356.
Taylor, George W., Everett, Mass. Tread for tires. No. 1,378,148; May 17; v. 286; p. 448.
Taylor, Harry P., Los Angeles, Calif., assignor to Stromberg Motor Devices Company, Chicago, Ill. Locking means for automobiles. No. 1,377,291; May 10; v. 286; p. 230.
Taylor, Henry S., Dallas, Tex. Book-support and writing-table. No. 1,377,230; May 10; v. 286; p. 218.
Taylor, Herbert, assignor of one-half to T. H. Barnard, Hamilton, Ontario, Canada. Crib attachment for motor-cars and the like. No. 1,377,607; May 10; v. 286; p. 290.
Taylor, John S., Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America. Combined manifold and rotary distributing-valve for internal-combustion engines. No. 1,378,431; May 17; v. 286; p. 501.
Taylor, Oliver P., Rockland, Me. Attachment for engines. No. 1,377,608; May 10; v. 286; p. 290.
Taylor Registering Projector Company. (See Taylor, Arthur K., assignor.)
Taylor, Walter H., Guelph, Ontario, Canada. Surgical wound-dam. No. 1,379,660; May 31; v. 286; p. 882.
Taylor, William O., Montreal, Quebec, Canada. Motor-support for sewing-machines. (Reissue.) No. 15,117; May 31; v. 286; p. 1010.
Tchoubritch, Michel. (See Vasseur, L. E., and Tchoubritch.)
Teall, Raymond E., *et al.* (See Noah, Leroy H., assignor.)
Teetsow, Waldemar H., New York, N. Y. Ball-bearing. No. 1,379,945; May 31; v. 286; p. 935.
Teisseire, Henri, Paris, France. Hinge for vehicle-bodies. No. 1,378,149; May 17; v. 286; p. 448.
Telford, William, and R. J. McLean, Paracale, Philippine Islands. Clay-disintegrating machine for sluice-box dredges. No. 1,377,034; May 3; v. 286; p. 125.
Tench, Samuel V., Wilkes-Barre, Pa. Chain. No. 1,377,371; May 10; v. 286; p. 247.
Terrell, Benjamin P., Warrenton, N. C. Fusible plug. No. 1,376,481; May 3; v. 286; p. 20.
Terrell, John O., San Bernardino, Calif. Gas-engine stove. No. 1,379,138; May 24; v. 286; p. 709.
Terranova, Giuseppe E., New Haven, Conn. Forming molds for dentists' use. No. 1,378,064; May 17; v. 286; p. 432.
Teste, Claude, Jr., Lyon, France. Fire-extinguishing device. No. 1,379,139; May 24; v. 286; p. 709.
Texas Gulf Sulphur Company. (See Bacon, R. F., and Wenrich, assignors.)
Thane, Arthur C., Chewelah, Wash. Apparatus and process for separating and recovering fine metallic particles from pulp. No. 1,377,738; May 10; v. 286; p. 315.
Thebault, William J., Sydney Mines, Nova Scotia, Canada. Combined rail chair and antispreading device. No. 1,379,661; May 31; v. 286; p. 882.
Theimer, Eugene, Newark, N. J., assignor to Lowenstein Radio Company, Inc., Brooklyn, N. Y. Manufacture of hydrobromic acid. No. 1,379,731; May 31; v. 286; p. 895.
Thickens, John H., Bathurst, New Brunswick, Canada, assignor to The Beaver Company, Buffalo, N. Y. Adhesive. No. 1,377,739; May 10; v. 286; p. 315.
Thielke, Ernest R., Pittsburgh, Pa. Button. No. 1,378,150; May 17; v. 286; p. 448.
Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,376,840; May 3; v. 286; p. 88.
Thiemer, William H., assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,378,985; May 24; v. 286; p. 680.
Thiemer, William H., assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,378,986; May 24; v. 286; p. 680.
Thomas, Adelbert A., assignor to Cresco Manufacturing Co., Chicago, Ill. Machine for covering metallic boxes. No. 1,377,231; May 10; v. 286; p. 218.
Thomas, Adelbert A., assignor to Cresco Manufacturing Co., Chicago, Ill. Machine for covering metallic boxes. No. 1,377,232; May 10; v. 286; p. 219.
Thomas, Charles W., St. Louis, Mo. Method and apparatus for making artificial limbs of fiber. No. 1,379,884; May 31; v. 286; p. 923.
Thomas, Edward G., Springfield, Ill. Child's play-table. No. 1,377,860; May 10; v. 286; p. 340.
Thomas, Frank W. (See Herron, W. S., and Thomas.)
Thomas, Howard W., Troy, N. Y. Antiaircraft and submarine howitzer. No. 1,377,292; May 10; v. 286; p. 230.
Thomas, Hubert J. S., Haverton Hill, England. Speed indicating and recording instrument. No. 1,377,293; May 10; v. 286; p. 231.

Thomas, Jay G., Philadelphia, Pa. Crowned-arch construction. No. 1,376,482; May 3; v. 286; p. 20.
Thomas, R., & Sons Co., The. (See Eckert, Grandon E., assignor.)
Thomas, Samuel J., East Wenatchee, Wash. Box-marker. No. 1,377,941; May 10; v. 286; p. 356.
Thomas, Walter H., Spencer, Iowa. Combination fender-brace and bumper. No. 1,379,946; May 31; v. 286; p. 935.
Thomas, Walter K., Brooklyn, N. Y. Variable-speed transmission mechanism. No. 1,378,634; May 17; v. 286; p. 540.
Thompson, Estella L., South Jacksonville, Fla. Curtain-pole and shade-roller bracket. No. 1,376,483; May 3; v. 286; p. 20.
Thompson, Herman E., Morattico, Va. Shock-absorber for vehicles. No. 1,377,104; May 3; v. 286; p. 138.
Thompson, Jacob M., Fond du Lac, Wis. Concrete-mold. No. 1,379,490; May 24; v. 286; p. 775.
Thompson, Lewis I., Portland, Oreg. Vehicle-spring. No. 1,379,321; May 24; v. 286; p. 743.
Thompson, Ralph W., Leith, Scotland. Machine for casting metals. No. 1,377,372; May 10; v. 286; p. 247.
Thomson Meter Company. (See Lambert, Frank, assignor.)
Thomson, William P. (See Schermerhorn, E. F., and Thomson.)
Thordarson, Chester H., Chicago, Ill. Electrical transformer. No. 1,378,151; May 17; v. 286; p. 448.
Thorn, J. S., Company. (See Rupp, Charles, assignor.)
Thornber, John, assignor to Bradford Dyers' Association Limited, Bradford, England. Apparatus for stretching fabrics. No. 1,376,736; May 3; v. 286; p. 67.
Thorsten, Alfred F., Brooklyn, N. Y. Fishhook. No. 1,379,422; May 24; v. 286; p. 762.
Thrift-Garter Co. (See Burt, James H., assignor.)
Thronsen, Sigurd, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Resistance welding-machine. No. 1,376,657; May 3; v. 286; p. 52.
Thropp, Joseph W., Trenton, N. J. Clutch. No. 1,380,271; May 31; v. 286; p. 996.
Thurman, George R., assignor of one-half to S. D. Gregson, St. Louis, Mo. Buckle. No. 1,377,233; May 10; v. 286; p. 219.
Thygeson, E. Theo I., *et al.* (See Snyder, George C., assignor.)
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,377,861; May 10; v. 286; p. 340.
Tice, Percival S., Chicago, Ill. Air-washer for internal-combustion engines. No. 1,379,062; May 24; v. 286; p. 694.
Tidd Recording Clock Company. (See Tidd, Walter J., assignor.)
Tidd, Walter J., assignor to Tidd Recording Clock Company, Springfield, Mass. Watchman's double-recording and signal device. No. 1,378,152; May 17; v. 286; p. 448.
Tidewater Equipment Corporation. (See Esterline, J. W., and Angus, assignors.)
Tiffany, Homer A., Paterson, N. J. Spindle. No. 1,378,497; May 17; v. 286; p. 513.
Tiikkainen, Andrew, assignor of one-half to H. V. Nurmi, Virginia, Minn. Oil-can and cup holder. No. 1,377,160; May 3; v. 286; p. 148.
Tillman, Ferdinand J., St. Louis, Mo., assignor to Typewriter Calculating Attachment Company. Calculating attachment for typewriting-machines. No. 1,379,322; May 24; v. 286; p. 744.
Tirrill, Allen A., Pittsburgh, Pa. Light-regulator. No. 1,376,841; May 3; v. 286; p. 88.
Tirrill, Allen A., Pittsburgh, Pa. Connecting-link. No. 1,380,124; May 31; v. 286; p. 969.
Todd Protectograph Company. (See Uhl, William, assignor.)
Todd, R. B., *et al.* (See Harp, William I., assignor.)
Tokheim, John J., Cedar Rapids, Iowa. Bottle-capper. No. 1,376,906; May 3; v. 286; p. 101.
Toledo Scale Company. (See Bergen, Harry S., assignor.)
Toledo Scale Company. (See Hem, Halvorn O., assignor.)
Toledo Scale Company. (See Reeves, Orwell C., assignor.)
Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Eccentric driving mechanism for power washing-machines. No. 1,379,732; May 31; v. 286; p. 895.
Tomasulo, Epifanio V. N., Cincinnati, Ohio. Barber's hair-cutting machine. No. 1,379,662; May 31; v. 286; p. 882.
Tomasulo, Epifanio V. N., Cincinnati, Ohio. Window-shade guard. No. 1,379,663; May 31; v. 286; p. 882.
Tomasulo, Epifanio V. N., Cincinnati, Ohio. Window-shade guard. No. 1,379,664; May 31; v. 286; p. 882.
Tomasulo, Epifanio V. N., Cincinnati, Ohio. Automatic hair-cutting machine. No. 1,380,272; May 31; v. 286; p. 996.
Tomaszewski, John, Taunton, Mass. Keyhole-guard. No. 1,378,918; May 24; v. 286; p. 667.
Tomec, John J., Trenton, N. J. Floor-covering. No. 1,378,498; May 17; v. 286; p. 514.
Tompkins, James H., and C. J. Foster, Webster, N. Y. Fruit-handling machine. No. 1,379,600; May 24; v. 286; p. 795.
Toner, James J. (See Toner, William J. and J. J.)
Toner, William J. and J. J., South Kensington, England. Soap-box for shaving purposes. No. 1,379,885; May 31; v. 286; p. 923.
Tonglet, L. Earl, *et al.* (See Warrington, William J., assignor.)
Toomey, John F. (See Arnold, O. M., and Toomey.)
Toomey, John F., New York, N. Y., and C. G. Spencer, East Orange, N. J., assignors to American Telephone and Telegraph Company. Portable repeater apparatus. No. 1,378,919; May 24; v. 286; p. 667.
Toplitz, Samson L., New York, N. Y. Mop-holder. No. 1,378,499; May 17; v. 286; p. 514.
Torbensen Axle Company, The. (See Torbensen, Viggo V., assignor.)
Torbensen, Viggo V., assignor to The Torbensen Axle Company, Cleveland, Ohio. Rear axle. No. 1,380,025; May 31; v. 286; p. 950.
Torrington Company, The. (See Graham, James H., assignor.) (Reissue.)
Torrington Company, The. (See Weston, F. E., and Graham, assignors.)
Toscas, John D., Chicago, Ill. Lock-nut. No. 1,379,371; May 24; v. 286; p. 753.
Towle, Elmer E., Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio. Truck for agricultural implements. No. 1,376,591; May 3; v. 286; p. 40.
Towle, Elmer E., Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio. Power mechanism for operating ground-breaking devices. No. 1,378,432; May 17; v. 286; p. 501.
Towne, Robert S., New York, N. Y., and F. B. Flinn, Orange, N. J., assignors, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Process of and apparatus for separating ore materials from each other. No. 1,378,920; May 24; v. 286; p. 668.
Townsend, Ernest F., assignor to L. A. Townsend, Los Angeles, Calif. Draft-rigging for motor-vehicles. No. 1,377,609; May 10; v. 286; p. 291.
Townsend, John S. E., Oxford, England. Variometer. No. 1,376,592; May 3; v. 286; p. 41.
Townsend, Lucretia A. (See Townsend, Ernest F., assignor.)
Toy, James J., Washington, D. C. Identification-tag. No. 1,379,491; May 24; v. 286; p. 775.
Tracy, Atlee H. (See Welch, W. J., and Tracy.)
Trailmobile Company, The. (See Morrison, James, assignor.)
Traphagan, Frank M., Waterloo, Iowa; I. W. Blough administratrix of said Frank M. Traphagan, deceased, assignor to M. Jackson and A. Stevens. Bordering for roofing. No. 1,377,610; May 10; v. 286; p. 291.
Trautman, Burl N., Fort Collins, Colo. Riddle for seed-extracting machines. No. 1,378,736; May 17; v. 286; p. 560.
Trautman, Burl N., Fort Collins, Colo. Crusher for seed-extracting machines. No. 1,378,737; May 17; v. 286; p. 560.
Trautner, Nicholas W., St. Paul, Minn. Grease-cup. No. 1,379,230; May 24; v. 286; p. 726.
Trefs, George. (See Shaffer, C. G., and Trefs.)
Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Automatic directing system for guide-lights. No. 1,377,294; May 10; v. 286; p. 231.
Trimm, Leslie E., Brooklyn, N. Y. Automobile-wheel-locking device. No. 1,379,423; May 24; v. 286; p. 762.
Trogner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Selvage-trimmer. No. 1,379,597; May 24; v. 286; p. 795.
Trotter, George C., Chicago, Ill., assignor to Plymouth Phonograph Parts Co., Plymouth, Wis. Motor. No. 1,378,153; May 17; v. 286; p. 449.
Trotter, George F., Des Moines, Iowa. Carbureter for internal-combustion engines. No. 1,377,529; May 10; v. 286; p. 276.
Troy Laundry Machinery Company. (See Balzer, Fritz, assignor.)
Trumpower, Andrew N., Sr., Hagerstown, Md. Combination railway-tie and rail-fastener. No. 1,377,942; May 10; v. 286; p. 357.
Truscott, Starr, Birmingham, Ohio. Bunkering-barge. No. 1,380,273; May 31; v. 286; p. 997.
Tschelke, Fritz, Fuerth, Bavaria, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Paper material coated with leaf metal. No. 1,376,737; May 3; v. 286; p. 67.
Tschudi, Aegidius, Riehen, near Basel, Switzerland. Process and apparatus for the manufacture of hydrobromic acid from bromin and hydrogen. No. 1,380,084; May 31; v. 286; p. 961.
Tubbs, Anthony A., Hammond, Ind. Safety-match tray. No. 1,379,424; May 24; v. 286; p. 763.
Tudhope, Melville B. (See White, Robert, assignor.)
Tufts, John W., Milwaukee, and C. L. Peters, Marinette, Wis. Electric warmer. No. 1,376,842; May 3; v. 286; p. 88.
Tuhey, Carl. (See Nottingham, C. A., and Tuhey.)
Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Self-laying-track vehicle. No. 1,379,323; May 24; v. 286; p. 744.
Turner, Frederic E., assignor to Kansas City Elevator Manufacturing Company, Kansas City, Mo. Tension-equalizing and shock-absorbing device. No. 1,380,125; May 31; v. 286; p. 969.
Turner, John C., Dayton, Ohio. Conversely-turning carousel. No. 1,377,641; May 10; v. 286; p. 297.

Turner, Joseph, Manchester, England. Combing-machine of the Nasmith type for combing cotton or other textile fibers. No. 1,379,789; May 31; v. 286; p. 905.
Turner & Seymour Manufacturing Company, The. (See Hills, Sidney C., assignor.)
Turner, Stanley S., *et al.* (See Clark, Edward W., assignor.)
Turner Tanning Machinery Company, The. (See Ramsdell, Lyndon O., assignor.)
Turner, Violet E., *et al.* (See Clark, Edward W., assignor.)
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-control device. No. 1,378,389; May 17; v. 286; p. 493.
Tusis, Soter B., Chicago, Ill. Hair-waving device. No. 1,377,943; May 10; v. 286; p. 357.
Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,376,484; May 3; v. 286; p. 20.
Tuttle, Roy X., Battle Creek, Mich. Therapeutic apparatus. No. 1,376,593; May 3; v. 286; p. 41.
Twarogowski, Alexander, and S. Klosinski, Detroit, Mich. Rotary heel. No. 1,377,642; May 10; v. 286; p. 297.
Twigg, Ernest, assignor to Landers, Frary & Clark, New Britain, Conn. Wringer-support. No. 1,378,500; May 17; v. 286; p. 514.
Twinsight Optical Co. (See Bugbee, Lucian W., assignor.)
Twyman, Frank, and R. P. Wilson, assignors of one-third to Adam Hilger Limited, London, England. Optical gaging apparatus. No. 1,377,530; May 10; v. 286; p. 276.
Tyler, Roy G., West Everett, Mass. Clothes-hanger. No. 1,377,944; May 10; v. 286; p. 357.
Typewriter Calculating Attachment Company. (See Tillman, Ferdinand J., assignor.)
Tziminadis, Harilaos N., New York, N. Y. Crude-oil-burning system. No. 1,380,126; May 31; v. 286; p. 969.
U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Arentz, assignors.)
U. S. Industrial Alcohol Co. (See Hayes, Albert, assignor.)
U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
U. S. Slicing Machine Company. (See Luschka, A. R., and Folk, assignors.)
Uhl, William, assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,379,425; May 24; v. 286; p. 763.
Ullgren, Johan D., Stocksund, Sweden. Drying apparatus for wood-pulp and other matters. No. 1,376,659; May 3; v. 286; p. 53.
Ulven, Edwin, Soldier, Iowa. Weather-board gage. No. 1,377,945; May 10; v. 286; p. 357.
Underwood Computing Machine Company. (See Duckstine, Julius, assignor.)
Underwood, John T. and L. M., Dayton, Ohio. Twyergrate for individual gas-producer kilns. No. 1,376,843; May 3; v. 286; p. 88.
Underwood, Lois M. (See Underwood, John T. and L. M.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Uneeda Cone Co. (See Levy, Daniel B., assignor.)
Unger, Hugo, assignor to Firm of Lintz & Eckhardt, Berlin, Germany. Hole-stitching machine. No. 1,376,658; May 3; v. 286; p. 52.
Unger, Morris, Pittsburgh, Pa. Amusement apparatus. No. 1,378,635; May 17; v. 286; p. 540.
Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)
Union Special Machine Company. (See Onderdonk, Lansing, assignor.)
Union Steel Products Company, The. (See Dickie, Brockway, assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
Unit Ice Machine Co. (See Knox, George F., assignor.)
United Concrete Pipe Co. (See Page, Stephen E., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Cash, Albert, assignor.) (Reissue.)
United Shoe Machinery Corporation. (See Chateauneuf, Frank, assignor.)
United Shoe Machinery Corporation. (See Clarke, Thomas B., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Engel, Karl, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Greenough, Henry B., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Hayden, Amos S., assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)
United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)
United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)
United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Shoe Machinery Corporation. (See Wentworth, Jesse S., assignor.)
United States Automotive Corporation. (See Arbuckle, Samuel F., assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
United States Machine Gun Company. (See Haskell, George D., assignor.)
United States Ordnance Company. (See Powers, John N., assignor.)
United States Ordnance Company. (See Sheppard, Creedy C., assignor.)
Universal Engineering Construction and Power Company. (See Morris, William R., assignor.)
Uribe-Troncoso, Manuel, assignor to W. Uribe-Troncoso, New York, N. Y. Schematic eye for sklascopy. No. 1,377,740; May 10; v. 286; p. 316.
Uribe-Troncoso, William. (See Uribe-Troncoso, Manuel, assignor.)
Urie, James W., assignor of one-half to A. B. Goodwin, Carson City, Mich. Wire-twister. No. 1,377,373; May 10; v. 286; p. 247.
Usines Electriques de la Lonza. (See Luder, Ernst, assignor.)
Utica Heater Company. (See Seemann, Jacob J., assignor.)
Utica Knitting Company. (See Jones, H. S., and Cullinan, assignors.)
Uvaas, Oscar H., Kensington, Minn. Rim contractor and expander. No. 1,379,426; May 24; v. 286; p. 763.
Vacuum Refrigeration Company. (See Huyett, D. D., and Register, assignors.)
Valley Holding Corporation. (See McBratney, Harry T., assignor.)
Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)
Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Dental shell. No. 1,379,063; May 24; v. 286; p. 694.
Van Berg, Louis. (See Steenstra, George, assignor.)
Van Cott, Clifton, Cold Spring Harbor, N. Y. Outside brake. No. 1,380,274; May 31; v. 286; p. 997.
Vanderbeek, Herbert, Canton, Ohio. Signaling device. No. 1,377,161; May 3; v. 286; p. 149.
Van Deventer, James E. (See Swank, L., and Van Deventer, assignors.)
Van Etten, William V., Langley Prairie, British Columbia, Canada. Wheelbarrow. No. 1,377,946; May 10; v. 286; p. 357.
Van Gilder, Lincoln, Ventnor, N. J. Valve-box. No. 1,377,105; May 3; v. 286; p. 138.
Van Guelpen, Louis J., Cincinnati, Ohio. Finishing the edges of flexible material. No. 1,377,643; May 10; v. 286; p. 297.
Van Hove, Desire H., assignor to The Jackson Cushion Spring Company, Jackson, Mich. Foundation for spring structures. No. 1,378,921; May 24; v. 286; p. 668.
Van Korlaar, Wynand, Grand Rapids, Mich. Penholder. No. 1,377,947; May 10; v. 286; p. 357.
Van Valkenburg, Burt R., Oakland, assignor to American Photo Player Company, Berkeley, Calif. Valve-timing device. No. 1,378,154; May 17; v. 286; p. 449.
Varlett, Arthur D., Waterbury, Conn. Chair-tip. No. 1,378,738; May 17; v. 286; p. 560.
Varley, Cromwell H., Chilworth Hill, near Guildford, England. Rotary engine or pump. No. 1,378,065; May 17; v. 286; p. 429.
Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Lighting system for automobiles. No. 1,380,275; May 31; v. 286; p. 997.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Spring-motor. No. 1,379,140; May 24; v. 286; p. 709.
Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York trustee. Tubular joint. No. 1,379,141; May 24; v. 286; p. 710.
Vasseur, Lucien E., and M. Tchoubritch, Viroflay, France. Antisplash-guard for motor-vehicles. No. 1,377,035; May 3; v. 286; p. 125.
Vaughan, Elmo, Cincinnati, Ohio. Spectacle-clip. No. 1,377,862; May 10; v. 286; p. 341.
Veasey, William R., Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Manganese-magnesium alloy and making same. No. 1,377,374; May 10; v. 286; p. 247.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Tachometer. No. 1,379,947; May 31; v. 286; p. 935.
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Veith, Bernard, *et al.* (See Hachmann, Frederick, assignor.)

Velcio, John, assignor of one-third to C. A. Harpman, Youngstown, Ohio. Combination pneumatic casing. No. 1,377,375; May 10; v. 286; p. 247.
Verhunce, Charles E., assignor to R. Williamson & Co., Chicago, Ill. Portable gas-lighting outfit. No. 1,379,372; May 24; v. 286; p. 753.
Verplex Art Company. (See Steedman, Henry P. G., assignor.)
Verstraete, Edmond, Belleville, N. J. Electric heater. No. 1,376,485; May 3; v. 286; p. 20.
Victor Adding Machine Co. (See Johantgen, Oliver D., assignor.)
Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)
Vilardo, Paul. (See Peters, E. M., and Vilardo.)
Virgens, Fred, Fairmont, Minn. Controlling mechanism for tractors. No. 1,377,448; May 10; v. 286; p. 261.
Vlach, Joseph, Jr., Hanover, Kans. Ham-hanger. No. 1,378,739; May 17; v. 286; p. 560.
Voelpel, Oliver J., St. Louis, Mo. Supporting-chair for supporting reinforcing-bars. No. 1,378,202; May 17; v. 286; p. 457.
Voetberg, Anne, Racine, Wis. Perpetual calendar. No. 1,376,981; May 3; v. 286; p. 115.
Vogelzang, Frank, Rock Valley, Iowa. Dental instrument. No. 1,378,433; May 17; v. 286; p. 501.
Vogt, Joseph, Richmond, Minn. Block-machine. No. 1,379,733; May 31; v. 286; p. 895.
Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Spring-suspension lever. No. 1,378,155; May 17; v. 286; p. 449.
Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Molasses-gate lock. No. 1,377,531; May 10; v. 286; p. 276.
Von Groeling, Albrecht F. G. C. P. J., assignor to National Refining Corporation, Inc., New York, N. Y. Apparatus for heating liquid hydrocarbons in distilling and other processes. No. 1,378,066; May 17; v. 286; p. 432.
Von Kando, Kalman, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical insulator. No. 1,376,486; May 3; v. 286; p. 21.
Von Schluembach, Adolph, Altoona, Pa. Folding box or crate. No. 1,376,487; May 3; v. 286; p. 21.
Von Wurstemberger, Franz, Zurich, Switzerland. Protection against electrolytic destruction. No. 1,379,582; May 24; v. 286; p. 792.
Vos, Salomon, Brooklyn, N. Y. Brush for mucilage and paste bottles. No. 1,378,636; May 17; v. 286; p. 540.
Voss, William H., Davenport, Iowa. Washing-machine. No. 1,379,373; May 24; v. 286; p. 753.
Vulcan Last Company. (See Clausing, George, assignor.)
Wacker, George W., Rutherford, N. J. Running-gear. No. 1,377,948; May 10; v. 286; p. 357.
Wadsworth, Herbert, Avon, N. Y. Silo-trap-door construction. No. 1,377,036; May 3; v. 286; p. 125.
Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Liquid-feeding apparatus. No. 1,377,994; May 10; v. 286; p. 366.
Wagner, Michael, assignor of one-third to L. Brodia and one-third to I. Weinberg, Pittsburgh, Pa. Pump-valve. No. 1,379,492; May 24; v. 286; p. 775.
Wagner, Paul R., Los Angeles, Calif., and C. T. Grove, Great Falls, Mont. Folding comfort-chair for children. No. 1,379,374; May 24; v. 286; p. 754.
Wagner, William J., assignor to The O. & W. Thum Company, Grand Rapids, Mich. Sticky-fly-ribbon coil. No. 1,379,734; May 31; v. 286; p. 895.
Wahl, Robert, Chicago, Ill. Preparation of media for yeast propagation and fermentation. No. 1,379,294; May 24; v. 286; p. 738.
Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley device. No. 1,379,705; May 31; v. 286; p. 890.
Wait, Henry H., Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind. Packing for rotary shafts. No. 1,377,143; May 3; v. 286; p. 145.
Walder, Edward, Kansas City, Mo. Electric heater. No. 1,377,037; May 3; v. 286; p. 125.
Waldo, Leonard, Plainfield, N. J. Reducing magnesium compounds. No. 1,379,886; May 31; v. 286; p. 923.
Walker, Albert C. (See Hanson, H. H., and Walker.)
Walker, Frank A., Niagara Falls, N. Y. Starting device for talking-machines. No. 1,379,493; May 24; v. 286; p. 776.
Walker, George L. (See Zouck, G. H., and Walker.)
Walker, George T., Minneapolis, Minn., assignor, by mesne assignments, to Colonial Chemical Corporation. Making Glauber's salt, tri-sodium phosphate, and neutral sodium phosphate. No. 1,379,735; May 31; v. 286; p. 895.
Walker, Leonard, assignor of one-half to R. La Rock, Chicago, Ill. Shade-roller support. No. 1,377,038; May 3; v. 286; p. 126.
Walker, William, and Sons Limited. (See Marris, Hubert C., assignor.)
Walkup, Samuel T., New York, N. Y. Autogubernator. No. 1,378,740; May 17; v. 286; p. 561.
Walkup, Samuel T., New York, N. Y. Flower-press. No. 1,378,741; May 17; v. 286; p. 561.
Walkup, Samuel T., New York, N. Y. Press throw-out. No. 1,378,742; May 17; v. 286; p. 561.
Walkup, Samuel T., New York, N. Y. Car-door. No. 1,379,583; May 24; v. 286; p. 792.
Wall, Ashbel T., Providence, R. I. Pin component and making the same. No. 1,378,501; May 17; v. 286; p. 514.
Wall & Ochs. (See Wall, C. F., and Harker, assignors.)
Wall, Charles F., and F. Harker, assignors to Wall & Ochs, Incorporated, Philadelphia, Pa. Trial spectacle-frame. No. 1,380,166; May 31; v. 286; p. 977.
Wall, Marion P., assignor to One Fire Asphalt Plant Company, Chattanooga, Tenn. Method and apparatus for handling asphalt. No. 1,378,637; May 17; v. 286; p. 540.
Wallace, Amos, Petoskey, Mich. Spring-wheel. No. 1,379,665; May 31; v. 286; p. 882.
Wallace, Frank W., Chattanooga, Tenn., assignor of one-half to A. E. Doyle. Dental impression-tray. No. 1,378,297; May 17; v. 286; p. 475.
Wallace, Leon, New York, N. Y. Cap. No. 1,379,142; May 24; v. 286; p. 710.
Wallace, William S., Fort Worth, assignor of one-half to C. O. Daliet, Taylor, Tex. Flytrap. No. 1,379,948; May 31; v. 286; p. 935.
Wallinder, Erick G., Duluth, Minn. Railway-rail wearing-plate and connection. No. 1,376,488; May 3; v. 286; p. 21.
Walling, Oscar L., Denver, Colo. Can-opener. No. 1,379,666; May 31; v. 286; p. 883.
Wallis Tractor Company. (See Hendrickson, Robert O., assignor.)
Walls, George A. (See Baird, M. B., and Walls.)
Walser, Joseph J., and H. Fankboner, Chicago, Ill., assignors to Goss Printing Press Company. Printing-press inking mechanism. No. 1,376,952; May 3; v. 286; p. 115.
Walser, Joseph J., Ann Arbor, Mich., and H. Fankboner, Chicago, Ill., assignors to Goss Printing Press Company. Inking mechanism. No. 1,376,983; May 3; v. 286; p. 115.
Walsh, James A., *et al.* (See Krause, Norman R., assignor.)
Walt, Mervin F., Huron, S. D. Necktie. No. 1,378,067; May 17; v. 286; p. 432.
Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling-machine. No. 1,378,390; May 17; v. 286; p. 493.
Walter, Maurice, assignor to Walter Motor Truck Company, New York, N. Y. Brake for motor-vehicles. No. 1,377,863; May 10; v. 286; p. 341.
Walter, Maurice, assignor to Walter Motor Truck Company, New York, N. Y. Drive for self-propelled vehicles. No. 1,377,864; May 10; v. 286; p. 341.
Walter Motor Truck Company. (See Walter, Maurice, assignor.)
Walters, Henry W., assignor of one-half to J. H. Mackey, Jacksonville, Fla. Life-saving apparatus. No. 1,380,026; May 31; v. 286; p. 950.
Walterskirchen, Theresia J., Missoula, Mont. Treating bran. No. 1,379,494; May 24; v. 286; p. 776.
Waltham Watch Company. (See Ohlson, Olof, assignor.)
Walton, Charles L., assignor to Kelly-Springfield Tire Company, Akron, Ohio. Tire-mold. No. 1,380,085; May 31; v. 286; p. 961.
Waltz, Philip W., Portland, Oreg. Steam-power automobile-wheel. No. 1,376,594; May 3; v. 286; p. 41.
Wanamaker, John, Philadelphia. (See Rehfuss, Martin O., assignor.)
Wandersee, John F., Highland Park, assignor to Ford Motor Company, Detroit, Mich. Hardening or tempering cam-shafts. No. 1,376,984; May 3; v. 286; p. 115.
Wangenstein, John J., and H. Fegraeus, Duluth, Minn. Insulating material. No. 1,379,143; May 24; v. 286; p. 710.
Ward, Alfred, St. Albans, N. Y. Lubricating system. No. 1,380,276; May 31; v. 286; p. 997.
Ward, Charles A., Mount Vernon, N. Y. Motor-vehicle chassis. No. 1,377,234; May 10; v. 286; p. 219.
Ward, Charles A., Mount Vernon, N. Y. Battery-ventilating means for electric vehicles. No. 1,377,235; May 10; v. 286; p. 219.
Ward, Fred H., Washington, D. C. Wagon. No. 1,377,949; May 10; v. 286; p. 358.
Ward, Fred H., Washington, D. C. Combination lock and controller for side doors of box-cars. No. 1,379,495; May 24; v. 286; p. 776.
Ward, George A., Chicago, Ill. Intermittent-vacuum massage-machine. No. 1,378,922; May 24; v. 286; p. 668.
Ward, George R., Munhall, Pa. Torch. No. 1,376,489; May 3; v. 286; p. 21.
Ward, Harvy M., Jay, N. Y. Shade-roller bracket. No. 1,378,638; May 17; v. 286; p. 541.
Ward, Joseph E., Chicago, Ill. Bag-holder. No. 1,376,660; May 3; v. 286; p. 53.
Ward, William H. (See Morse, Mark A., Jr., assignor.)
Ward, William L., Anoka, Minn. Snowplow. No. 1,378,502; May 17; v. 286; p. 514.
Warden, Frank L., Dewar, Okla. Tractor attachment. No. 1,378,743; May 17; v. 286; p. 561.
Warder, Walter J., Jr., Chicago, Ill. Support for brush-holders. No. 1,378,923; May 24; v. 286; p. 668.
Ware, Paul, New York, N. Y., assignor to Ware Radio, Inc. Cut-in system of radiotelegraphy. No. 1,379,144; May 24; v. 286; p. 710.
Ware Radio, Inc. (See Hazeltine, Louis A., assignor.)
Ware Radio, Inc. (See Ware, Paul, assignor.)

Wares, James B., Omaha, Nebr. Automatic flush. No. 1,380,086; May 31; v. 286; p. 962.
Warner, Emill, Chicago, Ill. Forming metallic tubes. No. 1,378,639; May 17; v. 286; p. 541.
Warner, Sotorious D., Kokomo, Ind. Resilient wheel. No. 1,376,788; May 3; v. 286; p. 77.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,376,490; May 3; v. 286; p. 21.
Warren, James P. (See Church, A. B., and Warren.)
Warrington, William J., assignor of two-ninths to L. E. Tonglet, two-ninths to E. J. McGinnis, and two-ninths to C. G. Gaspard, New Orleans, La. Drier. No. 1,377,644; May 10; v. 286; p. 297.
Warschavsky, Aaron W. H., Brooklyn, N. Y. Wave-motor. No. 1,379,145; May 24; v. 286; p. 710.
Washbourne, William H. (See Eddy, Ray L., assignor.)
Washington, Bowden. (See Cutting, F., and Washington.)
Washington Manufacturing Company. (See Hammer, Knott, and Jungbluth, assignors.)
Waterbury Clock Co. (See Horn, Ernest H., assignor.)
Waterhouse, Edward P., St. Louis, Mo. Sectional record-sorter. No. 1,379,790; May 31; v. 286; p. 905.
Waterhouse, Harold D., West Hartford, Conn. Current-distributer for internal-combustion engines. No. 1,379,584; May 24; v. 286; p. 792.
Watkins, Harold E., Stone Legh, Newton-le-Willows, England. Aeroplane level or position-indicator. No. 1,378,744; May 17; v. 286; p. 562.
Watkins, Sylvester A., London, assignor to T. T. Russell, Liverpool, England. Click or detent. No. 1,380,027; May 31; v. 286; p. 951.
Watrous, Earl G., Chicago, Ill. Flushing-valve. No. 1,379,231; May 24; v. 286; p. 726.
Watson, Chester A., Ballinger, Tex. Lifting-jack. No. 1,377,950; May 10; v. 286; p. 358.
Watson, Ernest A., Coventry, assignor to The C. L. I. Manufacturing Company, Limited, Birmingham, England. Magneto-electric machine. No. 1,379,496; May 24; v. 286; p. 776.
Watson, Glenn C., Cleveland, Ohio. Automatic rifle. No. 1,377,236; May 10; v. 286; p. 219.
Watt, Delton C., Danville, and F. A. Grearson, Barre, Vt. Vehicle-top attachment. No. 1,376,491; May 3; v. 286; p. 21.
Watts, James R., New Castle, Del., assignor to American Manganese Steel Company, Augusta, Me. Sheave, sprocket, or gear construction. No. 1,378,156; May 17; v. 286; p. 449.
Watts, Thomas A., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Supporting-brace for covers. No. 1,378,298; May 17; v. 286; p. 476.
Wavrin, John A., St. Louis, Mo., assignor to Dentists' Supply Company. Gage for selecting artificial teeth. No. 1,378,745; May 17; v. 286; p. 562.
Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
Weagant, Roy A., Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America. Vacuum-valve detector. No. 1,379,706; May 31; v. 286; p. 890.
Weagant, Roy A., Roselle township, Union county, N. J., assignor, by mesne assignments, to Radio Corporation of America. Vacuum-valve detector. No. 1,380,206; May 31; v. 286; p. 984.
Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster, assignor.)
Weaver, Thomas E. (See Kotrba, George C., assignor.)
Webb, Irving F. (See Ostrom, F. W., and Webb.)
Webb, John L., assignor to M. M. Johnson, Salt Lake City, Utah. Windshield-cleaner. No. 1,379,232; May 24; v. 286; p. 726.
Weber, Edmund H., Ranier, Minn. Combined spark-plug terminal and protector. No. 1,376,844; May 3; v. 286; p. 88.
Weber, Otto L. E., St. Cloud, Minn. Truck. No. 1,377,865; May 10; v. 286; p. 341.
Weber, Otto L. E., St. Cloud, Minn. Truck. No. 1,377,978; May 10; v. 286; p. 363.
Webster, Bester R. (See Madelbaum, M. H., and Webster.)
Webster, Edgar P., Bridgeport, Conn. Universal roller-bearing. No. 1,379,667; May 31; v. 286; p. 883.
Webster Electric Company. (See Kleckner, Arthur C., assignor.)
Webster, William L., New York, N. Y. Toothbrush. No. 1,378,157; May 17; v. 286; p. 449.
Wedmark, Paul H., Minneapolis, Minn. Process and apparatus for producing photographic negatives. No. 1,379,949; May 31; v. 286; p. 936.
Wedoit Company, The. (See Fenn, William B., assignor.)
Weekes, William F., Linwood, Pa., assignor to General Chemical Company, New York, N. Y. Feeding devices for roasting-furnaces. No. 1,378,068; May 17; v. 286; p. 432.
Wege, Peter M., Grand Rapids, Mich., assignor to Invincible Metal Office Furniture Company, Manitowoc, Wis. Safety deposit-box and lock construction. No. 1,377,449; May 10; v. 286; p. 261.
Weid, Axel J., Venice, Calif. Inking-reel. No. 1,377,532; May 10; v. 286; p. 276.
Weigen, Henry, Buffalo, N. Y., assignor, by mesne assignments, to Buffalo Equipment & Construction Company, Inc. Screening attachment for power-shovels. No. 1,376,595; May 3; v. 286; p. 41.
Weil, Lionel, Goldsboro, N. C. Transplanting-receptacle. No. 1,380,327; May 31; v. 286; p. 1007.
Weinberg, Isidor, *et al.* (See Wagner, Michael, assignor.)
Weiner, Morris, Philadelphia, Pa. Coin-actuated dispensing apparatus. No. 1,378,069; May 17; v. 286; p. 433.
Weisgerber, Edwin C., Washington, D. C. Colored-smoke-producing composition. No. 1,377,533; May 10; v. 286; p. 276.
Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Production of maleic acid. No. 1,377,534; May 10; v. 286; p. 276.
Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of ortho-cresol. No. 1,380,277; May 31; v. 286; p. 998.
Weiss, Joseph W., assignor to French Battery & Carbon Co., Madison, Wis. Mixing battery material. No. 1,377,645; May 10; v. 286; p. 298.
Welthaase, Paul E., *et al.* (See White, Tilman, assignor.)
Welch, George S., Chicago, Ill. Collapsible bed. No. 1,379,064; May 24; v. 286; p. 694.
Welch, John A., Kansas City, Mo. Engine-piston. No. 1,377,106; May 3; v. 286; p. 139.
Welch, Walter J., and A. H. Tracy, assignors to H. M. Byllesby & Company, Chicago, Ill. Coupling. No. 1,380,127; May 31; v. 286; p. 969.
Welch, William G. (See Holland, J., and Welch.)
Welge, Didrik, Mason, Nev. Water-cooling system for internal-combustion motors. No. 1,378,070; May 17; v. 286; p. 433.
Wellington, Arthur W., assignor to The Chase Companies, Inc., Waterbury, Conn. Flashlight or battery hand-lamp. No. 1,377,646; May 10; v. 286; p. 298.
Wellman-Seaver-Morgan Company, The. (See McClimon, Jay S., assignor.)
Wellman-Seaver-Morgan Company, The. (See Rogers, John F., assignor.)
Wellman-Seaver-Morgan Company, The. (See Sabin, Ford L., assignor.)
Wells, John, Cairo, Egypt. Grate for gas-producers and carbonizing plants. No. 1,380,278; May 31; v. 286; p. 998.
Wells, John V., New York, N. Y., assignor of one-fourth to J. Yuengling, Morristown, N. J. Puzzle. No. 1,377,039; May 3; v. 286; p. 126.
Wenrich, Calvin N. (See Bacon, R. F., and Wenrich.)
Wentworth, Jesse S., Norwood, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening mechanism. No. 1,377,295; May 10; v. 286; p. 231.
Wentworth, Pearl J., Fort Thomas, Ky. Laying and securing soles to uppers. No. 1,379,375; May 24; v. 286; p. 754.
Wenzlick, John H., Wheeling, W. Va. Supporting-chair for drill-boxings. No. 1,377,296; May 10; v. 286; p. 231.
Wenzowitz, Michael, Chicago, Ill. Window-fixture. No. 1,379,497; May 24; v. 286; p. 776.
Werlin, Charles H., Columbus, Ohio. Gas-burning stove. No. 1,378,071; May 17; v. 286; p. 433.
Werner, Oscar, Los Angeles, Calif. Valve-operating system for combustion-engines. No. 1,377,297; May 10; v. 286; p. 231.
Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Westcott, Incorporated, Boston, Mass. Treatment of cinematographic films. No. 1,380,279; May 31; v. 286; p. 998.
Wessels, Daniel D., Detroit, Mich. Range-boiler stand. No. 1,378,299; May 17; v. 286; p. 476.
Wessely, Edward, New York, N. Y. Device for cleaning buttons or the like. No. 1,378,987; May 24; v. 286; p. 680.
West, Charles E., Higham Hill, Walthamstow, England. Machine for casting metals. No. 1,376,661; May 3; v. 286; p. 53.
West, Frederick J., M. Jackson, and H. T. Leader, assignors of one-fourth to A. Baxter, Detroit, Mich. Concrete tunnel structure. No. 1,378,158; May 17; v. 286; p. 450.
West, John E., Jr., Central City, Nebr. Clothespin-basket. No. 1,380,087; May 31; v. 286; p. 962.
West, Perry, Newark, N. J., assignor to Anti-corrosion Engineering Company. Device for controlling the flow of fluids. No. 1,376,596; May 3; v. 286; p. 41.
West, Walter P., Napa, and J. H. Smith, San Francisco, Calif. Rotary rasp. No. 1,379,146; May 24; v. 286; p. 710.
Wester, Arthur A., Boone, Iowa. Toy vehicle. No. 1,378,434; May 17; v. 286; p. 501.
Wester, Svante, San Francisco, Calif. Combined hammock and knapsack. No. 1,380,167; May 31; v. 286; p. 977.
Western Electric Company. (See Ashbaugh, R. P., and Cawthon, assignors.)
Western Electric Company. (See Beck, William O., assignor.)
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company. (See Bradbury, Clifford C., assignor.)
Western Electric Company. (See Clausen, Henry P., assignor.)

Western Electric Company. (See Curtis, Austen M., assignor.)
Western Electric Company. (See Field, Joseph C., assignor.)
Western Electric Company. (See Gilson, A. F. F., and Shann, assignors.)
Western Electric Company. (See Gilson, Albert F. F., assignor.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Griffin, J. T., Nelson, and Campbell, assignors.)
Western Electric Company. (See Hargan, Augustus D., assignor.)
Western Electric Company. (See Horton, Joseph W., assignor.)
Western Electric Company. (See Janicki, John, assignor.)
Western Electric Company. (See McQuarrie, James L., assignor.)
Western Electric Company. (See Milton, Ivan L., assignor.)
Western Electric Company. (See Rainey, P. M., and Dowd, assignors.)
Western Electric Company. (See Shreeve, Herbert E., assignor.)
Western Electric Company. (See Thronsen, Sigurd, assignor.)
Western Electric Company. (See Whiting, Donald F., assignor.)
Western Electric Company. (See Wickstrom, Charles A., assignor.)
Western Electric Company. (See Wotton, James A., assignor.)
Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Abtmeyer, Theodore, assignor.)
Westinghouse Electric & Manufacturing Company. (See Atherton, Alfred L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Arnold, John T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Claytor, Edward M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Garcelon, George H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Gazda, Adolph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hall, A. J., and Whittaker, assignors.)
Westinghouse Electric and Manufacturing Company. (See Hanff, Edward A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., and Perkins, assignors.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hipple, Oliver P., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Langguth, Joseph O., assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kando, Kalman, assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Moore, Edward T., assignor.)
Westinghouse Electric and Manufacturing Company. (See Nagel, Harry C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ponsonby, Amos A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rottmann, Clarence J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, K. A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,378,203; May 17; v. 286; p. 458.
Westlake, Charles T., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Locomotive-tender underframe. No. 1,378,204; May 17; v. 286; p. 458.
Weston, Clarence J., Fort Dodge, Iowa. Conveying-receptacle. No. 1,378,574; May 17; v. 286; p. 528.
Weston, Frederick P., and J. H. Graham, assignors to The Torrington Company, Torrington, Conn. Pedal. No. 1,377,376; May 10; v. 286; p. 247.
Westrope, Mary E., David City, Nebr. Cushion for hats. No. 1,377,107; May 3; v. 286; p. 139.
Wetmore, Charles P., Milwaukee, Wis. Automatic stop for sound-reproducing machines. No. 1,380,028; May 31; v. 286; p. 951.
Wetzel, K. O., Co. (See Wetzel, Kurt O., assignor.)
Wetzel, Kurt O., assignor to K. O. Wetzel Co., Los Angeles, Calif. Anchoring device. No. 1,379,065; May 24; v. 286; p. 694.
Weyers, Aloysius W. F., Tilburg, Netherlands. Downdraft-kiln. No. 1,379,324; May 24; v. 286; p. 744.
Whaley, William, trustee. (See Whaley, William, assignor.)
Whaley, William, Knoxville, Tenn. Loading-machine. No. 1,379,427; May 24; v. 286; p. 763.
Whaley, William, Knoxville, Tenn., assignor to said William Whaley, trustee. Shoveling-machine. No. 1,379,428; May 24; v. 286; p. 763.
Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Automatic pressure-regulating valve. No. 1,377,647; May 10; v. 286; p. 298.
Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Internal-combustion engine. No. 1,378,072; May 17; v. 286; p. 433.
Wheary, George H., Racine, Wis. Trunk laundry-bag and cover. No. 1,378,924; May 24; v. 286; p. 669.
Wheeler, Frank A., Flint, Mich. Air-turbine. No. 1,378,746; May 17; v. 286; p. 562.
Wheeler, William H., New York, N. Y. Fireproof door. No. 1,377,298; May 10; v. 286; p. 232.
Wheeler, William I., Scottville, Ill. Transmission mechanism. No. 1,377,377; May 10; v. 286; p. 247.
Wheeling Steel & Iron Company. (See Peacock, Samuel, assignor.)
Whelan, Mary A., Jersey City, N. J. Motor-vehicle. No. 1,377,237; May 10; v. 286; p. 219.
Whigham, Frank, Kinston, Ala. Animal-poke. No. 1,377,299; May 10; v. 286; p. 232.
Whipple, Charles N., Bellingham, Wash. Drag-chain link. No. 1,377,450; May 10; v. 286; p. 261.
Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Ignition system. No. 1,376,845; May 3; v. 286; p. 88.
Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Ignition system. No. 1,376,846; May 3; v. 286; p. 89.
Whitaker, Edna L., West Branch, Mich. Clamping-bracelet for mittens, gloves, &c. No. 1,377,648; May 10; v. 286; p. 298.
Whitaker-Glessner Company. (See Hunker, Martin L., assignor.)
Whitaker, John, assignor to Safe-Guard Check-Writer Company, Lansdale, Pa. Check printing and scarifying machine. No. 1,377,040; May 3; v. 286; p. 126.
Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Obtaining alcohol and potassium compounds. No. 1,376,662; May 3; v. 286; p. 53.
Whitcomb, James, and G. C. J. Gray; said Whitcomb assignor of one-eighth to C. E. Coblentz, Hastings, Nebr. Automobile-engine. No. 1,380,088; May 31; v. 286; p. 962.
Whitcomb, William A., Millinocket, Me. Apparatus for storing and handling logs. No. 1,380,280; May 31; v. 286; p. 998.
White, Albert, Williamstown, N. J. Loss-preventing device. No. 1,378,747; May 17; v. 286; p. 562.
White, Birdora H., Chicago, Ill. Buckle or clamp. No. 1,378,391; May 17; v. 286; p. 493.
White, Charles W., Chamblee, Ga. Cotton-chopper. No. 1,380,281; May 31; v. 286; p. 998.
White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,377,378; May 10; v. 286; p. 248.
White, E. H. (See Duhon, Jules, assignor.)
White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Shade-holder. No. 1,379,066; May 24; v. 286; p. 695.
White, Ernest M., Los Angeles, Calif. Carbureter. No. 1,377,535; May 10; v. 286; p. 276.
White, Frank A., Cleveland, Ohio. Apparatus for dispensing congealed foods and desserts. No. 1,380,029; May 31; v. 286; p. 951.
White, Franklin R. (See Hart, L. J., and White.)
White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,073; May 17; v. 286; p. 434.
White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,074; May 17; v. 286; p. 434.
White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,075; May 17; v. 286; p. 434.
White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,076; May 17; v. 286; p. 434.

White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,077; May 17; v. 286; p. 434.
White, Fred H., *et al.* (See Stanley, E. S., and Gay, assignors.)
White, George, assignor to P. Panoulias, Jersey City, N. J. Transfer mechanism. No. 1,378,503; May 17; v. 286; p. 514.
White, Harry W., Emporia, Kans. Washing-machine. No. 1,378,925; May 24; v. 286; p. 669.
White, Isaac, Wilmington, Del. Lock. No. 1,378,504; May 17; v. 286; p. 515.
White, Johannah L., Chicago, Ill. Combination chair and cot. No. 1,378,505; May 17; v. 286; p. 515.
White, Joseph, Piscataway township, Middlesex county, assignor of one-half to Hall Printing Press Company, Dunellen, N. J., and one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-positioning mechanism. No. 1,378,205; May 17; v. 286; p. 458.
White, Joseph W., Widnes, England. Lubrication of machinery. No. 1,377,866; May 10; v. 286; p. 341.
White, Robert, assignor of one-half to M. B. Tudhope, Orillia, Ontario, Canada. Means for greasing springs. No. 1,378,159; May 17; v. 286; p. 450.
White, Tilman, assignor of one-third to R. Salisbury, one-third to E. F. Beckham, Berkeley, and one-third to P. E. Weithaase, San Francisco, Calif. Pressure cut-off. No. 1,380,030; May 31; v. 286; p. 951.
Whitney, William A., assignor to Frank V. Bogart and H. A. Merlien, Rockford, Ill. Punch. No. 1,376,492; May 3; v. 286; p. 22.
White, William H., Los Angeles, Calif. Mattress. No. 1,379,147; May 24; v. 286; p. 710.
Whiting, Donald F., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,378,392; May 17; v. 286; p. 493.
Whittaker, Charles C. (See Hall, A. J., and Whittaker.)
Whittier, Walter H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator-door construction. No. 1,379,067; May 24; v. 286; p. 695.
Whittingham, George H., Bancroft Park, Md., assignor to Monitor Controller Company of Baltimore. Thermostatic switch. No. 1,380,168; May 31; v. 286; p. 977.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,379,148; May 24; v. 286; p. 711.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Rear bumper for automobiles. No. 1,379,791; May 31; v. 286; p. 905.
Whittington, John A., Atlanta, Ga. Color-printing device. No. 1,378,435; May 17; v. 286; p. 502.
Wiberg, Oskar A., Finspong, assignor, by mesne assignments, to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Elastic-fluid turbine. No. 1,378,506; May 17; v. 286; p. 515.
Wiberg, Oscar A., Finspong, Sweden. Power-transmission device. No. 1,379,498; May 24; v. 286; p. 776.
Wichmann, John C., Los Angeles, Calif. Making rubber-like material and resulting product. No. 1,379,149; May 24; v. 286; p. 711.
Wichmann, John C., assignor of one-half to L. J. Maescher, Los Angeles, Calif. Making rubber-like material. No. 1,379,150; May 24; v. 286; p. 711.
Wickersham, Theodore, Philadelphia, Pa. Apparatus for preparing textile-treating baths. No. 1,380,282; May 31; v. 286; p. 998.
Wickstrom, Alfred E., Jamestown, N. Y. Stop for extension-files. No. 1,376,493; May 3; v. 286; p. 22.
Wickstrom, Alfred E., Jamestown, N. Y. Extension-file. No. 1,376,494; May 3; v. 286; p. 22.
Wickstrom, Charles A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Polishing-machine. No. 1,376,663; May 3; v. 286; p. 53.
Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,379,068; May 24; v. 286; p. 695.
Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Helical-spring belt. No. 1,378,507; May 17; v. 286; p. 515.
Wiemann, Herbert O., Chesterton, Ind. License-indicator. No. 1,378,640; May 17; v. 286; p. 541.
Wienke, Herbert W., Michigan City, Ind. Drawbar-mounting machine. No. 1,378,926; May 24; v. 286; p. 669.
Wiggins, Frank, Knoxville, Tenn. Matrix and matrix-holder. No. 1,378,748; May 17; v. 286; p. 562.
Wilcke, Eugene, Dayton, Ohio. Pipe-collar. No. 1,379,233; May 24; v. 286; p. 727.
Wilcox, Frederick A., and E. L. McGrory, Chicago, Ill. Coffee-roasting machine. No. 1,377,536; May 10; v. 286; p. 277.
Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Labeling-machine. No. 1,379,376; May 24; v. 286; p. 754.
Wilder, Laurence R. (See Miller, John A., assignor.)
Wilhelm, John, St. Louis, Mo. Safety-guard for automobiles. No. 1,378,988; May 24; v. 286; p. 680.
Wilkes, Alfred L., Los Angeles, Calif. Electric-furnace control. No. 1,377,951; May 10; v. 286; p. 358.
Wilkes, Alfred L., Los Angeles, Calif. Heat control for electric furnaces. No. 1,377,952; May 10; v. 286; p. 358.
Wilkins, Walter S., Wednesbury, England. Lifting-jack. No. 1,379,736; May 31; v. 286; p. 895.
Wilkinson, Walter, Jersey City, N. J., assignor to Air Reduction Company, Inc. Method of and apparatus for drying compressed gases. No. 1,376,985; May 3; v. 286; p. 116.
Willard Storage Battery Company. (See Hubbell, Harry C., assignor.)
Willard Storage Battery Company. (See Willard, Theodore A., assignor.)
Willard, Theodore A., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,377,995; May 10; v. 286; p. 366.
Willat, Arnold F., San Rafael, Calif. Phonograph-needle. No. 1,380,089; May 31; v. 286; p. 962.
Williams, Alvin H., Plant City, Fla. Machine for shredding bamboo and the like. No. 1,376,789; May 3; v. 286; p. 77.
Williams, Benjamin S., Nashville, Tenn. Gage. No. 1,377,238; May 10; v. 286; p. 220.
Williams, C. C., acting chief of ordnance, trustee. (See Bump, Nelson P., assignor.)
Williams, Charles D., New York, N. Y., assignor to Adams-Williams Manufacturing Corporation. Convertible vehicle-body. No. 1,377,164; May 3; v. 286; p. 149.
Williams, Charles D., New York, N. Y., assignor to Adams-Williams Manufacturing Corporation. Convertible automobile-body construction. No. 1,377,165; May 3; v. 286; p. 149.
Williams, Charles D., New York, N. Y., assignor to Adams-Williams Manufacturing Corporation. Convertible automobile-body construction. No. 1,377,166; May 3; v. 286; p. 150.
Williams, Edward H. (See Roeling, H. W. Williams, and Bauer.)
Williams, Frank C., Montello, Nev. Sectional tool. No. 1,380,090; May 31; v. 286; p. 962.
Williams, Frank H., Buffalo, N. Y. Grab-bucket. No. 1,376,847; May 3; v. 286; p. 89.
Williams, Frederic S., Chicago, Ill., J. G. B. Perkins and J. B. B. Stryker, Lansdale, Pa., assignors to Perkins Glue Company. Vegetable glue and making the same. No. 1,378,078; May 17; v. 286; p. 434.
Williams, Glen L., New York, N. Y., assignor, by mesne assignments, to H. W. Campbell, Detroit, Mich. Making ammonia from compound nitrids. No. 1,379,668; May 31; v. 286; p. 883.
Williams, Harold E. (See McCutchen, B. S., and Williams.)
Williams, Harry S., La Mesa, assignor of one-half to O. A. Keller, San Diego, Calif., and one-fourth to E. O. Kotchmann, Mason, Tex. Non-skid device. No. 1,379,151; May 24; v. 286; p. 711.
Williams, Harry S., assignor of one-half to O. Keller, San Antonio, Tex. Pneumatic tire. No. 1,379,887; May 31; v. 286; p. 924.
Williams, Harry S., assignor of one-half to O. Keller, San Antonio, Tex. Sectional rim. No. 1,379,888; May 31; v. 286; p. 924.
Williams, Horace S., Brooklyn, N. Y. Knife for cutters. No. 1,377,042; May 3; v. 286; p. 126.
Williams, John M., Guthrie, Okla. Electrolytic cell. No. 1,376,495; May 3; v. 286; p. 22.
Williams, Louis N. D., Ogontz, Pa. Web-turning device for knitting-machines. No. 1,377,239; May 10; v. 286; p. 220.
Williams, Oliver J., Burlingame, Calif., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Slicing-machine. No. 1,377,649; May 10; v. 286; p. 298.
Williams Patent Crusher and Pulverizer Company. (See Cornwall, Frederick R., assignor.)
Williams Patent Crusher & Pulverizer Co. (See Williams, Oliver J., assignor.)
Williams, Peyton W., Montgomery, Ala. Appliance for fireplaces. No. 1,377,108; May 3; v. 286; p. 139.
Williams, Ray W. (See Simpson, G. N., and Williams.)
Williams, William C., New Orleans, La. Portable propelling device. No. 1,379,889; May 31; v. 286; p. 924.
Williams, William E., Chicago, Ill. Pressed-plate wheel. No. 1,378,300; May 17; v. 286; p. 476.
Williams, William E., Chicago, Ill. Plate disk wheel. No. 1,378,301; May 17; v. 286; p. 476.
Williams, William E., Chicago, Ill. Cast-rim disk wheel. No. 1,378,302; May 17; v. 286; p. 746.
Williams, William E., Chicago, Ill. Hollow-rolled-rim wheel. No. 1,379,843; May 31; v. 286; p. 916.
Williams, William H., Erdington, Birmingham, England. Box or container for razor-blades and the like. No. 1,377,379; May 10; v. 286; p. 248.
Williamson, Arba G. (See Gray, G. B., and Williamson.)
Williamson, Colonel J., assignor to Williamson Machine Company, San Francisco, Calif. Apparatus for handling eggs. No. 1,379,234; May 24; v. 286; p. 727.
Williamson, Fred J., Dover, Ohio. Refrigerator. No. 1,379,500; May 24; v. 286; p. 777.
Williamson, John A., Denver, Colo. Finger-grasping razor-blade holder. No. 1,378,079; May 17; v. 286; p. 434.
Williamson, John E., Norfolk, Va. Producing life-like simulations to inanimate objects. No. 1,378,641; May 17; v. 286; p. 541.
Williamson Machine Company. (See Williamson, Colonel J., assignor.)
Williamson, R., & Co. (See Verhunce, Charles E., assignor.)

Willgrubs, Leonard G., Sparta, Wis. Bean-thresher. No. 1,377,041; May 3; v. 286; p. 126.
Williford, Ella, Detroit, Mich. Attachment for the backs of seats. No. 1,379,499; May 24; v. 286; p. 777.
Willis, Bernard D., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,376,848; May 3; v. 286; p. 89.
Willis, Frank H., assignor of one-third to W. A. Dowdell and one-third to C. H. Jackson, Toronto, Ontario, Canada. Valve. No. 1,377,240; May 10; v. 286; p. 220.
Willmon, Jeremy C., Los Angeles, Calif. Vehicle-wheel. No. 1,378,303; May 17; v. 286; p. 476.
Willson, George M., Williamsport, Pa. Spring-motor governor. No. 1,378,206; May 17; v. 286; p. 458.
Wills, Marmaduke M., Fitchburg, Mass., assignor to The Regina Company, New York, N. Y. Starting and stopping mechanism for talking-machines. No. 1,379,069; May 24; v. 286; p. 695.
Willys Corporation. (See Post, Truman W., assignor.)
Willys-Overland Company, The. (See Kamper, Edward, assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Willys-Overland Company. (See Lightner, A. D., and Holmes, assignors.)
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Willys-Overland Company, The. (See Miller, John C., assignor.)
Willys-Overland Company, The. (See Pomeroy, Percy W., assignor.)
Wilming, Otto A. (See Burke, J. H., and Wilming.)
Wilson, Charles C. (See Campbell, Ronald E., assignor.)
Wilson, Clarence, Waynesburg, Pa. Toaster. No. 1,377,043; May 3; v. 286; p. 127.
Wilson & Company. (See Kurk, Frederick W., assignor.)
Wilson, Connie H., and C. G. Lee, Asheville, N. C. Thermos-bottle attachment. No. 1,380,128; May 31; v. 286; p. 969.
Wilson, Dewey E., Oakland, Iowa. Motor-meter lock. No. 1,379,669; May 31; v. 286; p. 883.
Wilson, George H., Augusta, Ga. Attachment for slashers and finishers. No. 1,377,044; May 3; v. 286; p. 127.
Wilson, George H., Augusta, Ga. Warp stop device. No. 1,377,045; May 3; v. 286; p. 127.
Wilson, Herman T. (See Brant, P., and Wilson.)
Wilson, Reginald P. (See Twyman, F., and Wilson.)
Wilson, William G., West New Brighton, N. Y. Sink-seal. No. 1,379,501; May 24; v. 286; p. 777.
Wilson, William R., Terre Haute, Ind. Roller-bearing hub. No. 1,379,670; May 31; v. 286; p. 883.
Wimmer, Hugo, Bath, Me. Rotary cutter and paint-remover. No. 1,377,537; May 10; v. 286; p. 277.
Winchester Repeating Arms Co. (See Butler, George P., assignor.)
Winckelmann, Max, Kiel, Germany. Foldable aeroplane-wing and the like. No. 1,377,538; May 10; v. 286; p. 277.
Winders, Bayard L. (See Durborow, Harry J., assignor.)
Window Glass Machine Company. (See Clark, Henry F., assignor.)
Windsor, Charles H., Palmyra, N. J. Sanitary basin for lavatories. No. 1,379,152; May 24; v. 286; p. 711.
Wine, William E., Toledo, Ohio. Precipitator. No. 1,377,996; May 10; v. 286; p. 366.
Wineman, Charles P., assignor to Detroit Twist Drill Company, Detroit, Mich. Making drills. No. 1,379,070; May 24; v. 286; p. 695.
Wineman, Charles P., assignor to Detroit Twist Drill Company, Detroit, Mich. Twisting-machine. No. 1,379,071; May 24; v. 286; p. 695.
Winestock, Otto C., Perkinsville, assignor to W. W. Slack, Springfield, Vt. Indurated porous material and forming same. No. 1,377,241; May 10; v. 286; p. 220.
Winger, Fred F. (See Burns, R. L., and Winger.)
Winkelman, Fred G., Manitowoc, Wis. Cooking utensil. No. 1,379,072; May 24; v. 286; p. 696.
Winn, Chester B., Buffalo, N. Y. Artificial leg. No. 1,379,293; May 24; v. 286; p. 738.
Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Trailer-braking means for trucks and tractors. No. 1,378,749; May 17; v. 286; p. 562.
Winter, Anna K., Brooklyn, N. Y. Car-door safety-signal. No. 1,376,849; May 3; v. 286; p. 89.
Winterhoff, Benjamin F., Elkhart, Ind. Socket for wind instruments. No. 1,376,986; May 3; v. 286; p. 116.
Winther, Martin P., Kenosha, Wis., assignor to Winther Motor Truck Company. Vehicle front-wheel driving mechanism. No. 1,379,792; May 31; v. 286; p. 906.
Winther Motor Truck Company. (See Winther, Martin P., assignor.)
Wirebounds Patents Company. (See Brown, Hugh, assignor.) (Reissue.)
Wirfs, Edward J., assignor to National Refrigerators Company, St. Louis, Mo. Refrigerator. No. 1,377,451; May 10; v. 286; p. 262.
Wirt, Charles, Philadelphia, Pa. Making electric heaters. No. 1,376,987; May 3; v. 286; p. 116.
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 1,379,890; May 31; v. 286; p. 924.
Wisch, Walter J. (See Holmes, G. R., and Wisch.)
Wise, Clarence E., Washington, D. C. Portable tool for securing binding material to receptacles. No. 1,376,597; May 3; v. 286; p. 41.
Witham, George S., Jr., Hudson Falls, N. Y. Temperature-regulator. No. 1,378,027; May 24; v. 286; p. 669.
Withington, Philip H., assignor to The Sparks-Withington Company, Cleveland, Ohio. Manufacture of fans. No. 1,377,300; May 10; v. 286; p. 232.
Withrow, Floyd G., Grand Rapids, Mich. Spark and throttle rod tension appliance. No. 1,380,169; May 31; v. 286; p. 977.
Witty, George, New York, N. Y. Paint vehicle and making the same. No. 1,379,235; May 24; v. 286; p. 727.
Witzel, Joseph R., Tacony, Pa. Building construction. No. 1,378,928; May 24; v. 286; p. 669.
Wodraska, Walter J., New York, N. Y. Safety device for gas-ranges. No. 1,376,909; May 3; v. 286; p. 101.
Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft-gear. No. 1,378,393; May 17; v. 286; p. 493.
Wolcott, Frank E., Hartford, Conn. Dish-washing-machine receptacle. No. 1,380,310; May 31; v. 286; p. 1003.
Wolf, David, New York, N. Y. Hair-net. No. 1,379,236; May 24; v. 286; p. 727.
Wolfe, Charles F., New York, N. Y. Lubricator for guide-rails. No. 1,378,750; May 17; v. 286; p. 563.
Wolfe, Charles H., Port Clinton, Ohio. Vehicle-lamp mounting. No. 1,376,988; May 3; v. 286; p. 116.
Wolff, H., estate, The. (See Levine, Bernard, assignor.)
Wolff, Henry, New York, N. Y. Attachment for ink-bottles. No. 1,380,129; May 31; v. 286; p. 930.
Wollenhaupt, Justus J., assignor to The Monitor Stove Company, Cincinnati, Ohio. Pipeless hot-air furnace for buildings. No. 1,377,539; May 10; v. 286; p. 277.
Wommer, Frederic, Minneapolis, Minn. Cream-extractor. No. 1,377,650; May 10; v. 286; p. 299.
Wompey, John J., Denver, Colo., assignor to The L. Grauman Fixture Company. Soda-fountain. No. 1,380,130; May 31; v. 286; p. 970.
Wood, Albert G., Jr., assignor to Henry Ford Hospital, Detroit, Mich. Water-closet bowl. No. 1,376,907; May 3; v. 286; p. 101.
Wood, Casimir J., San Francisco, Calif. Reamer and cutter. No. 1,376,790; May 3; v. 286; p. 77.
Wood, Galen, Seattle, Wash. Lawn-mower. No. 1,377,953; May 10; v. 286; p. 358.
Wood, George L., Worcester, Mass. Support for expanding reamers. No. 1,378,989; May 24; v. 286; p. 680.
Wood, George R., assignor of one-half to W. A. Wood, Sr., Montreal, Quebec, Canada. Computing-machine. No. 1,376,850; May 3; v. 286; p. 89.
Wood, George W. (See Strickland, O. S., and Wood.)
Wood, Harry L., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Water-pan for hot-air furnaces. No. 1,379,325; May 24; v. 286; p. 744.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Pasting device for web-presses. No. 1,378,304; May 17; v. 286; p. 477.
Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Web-roll tension and supporting device. No. 1,378,305; May 17; v. 286; p. 477.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Nordfors, assignors.)
Wood, William A., Sr. (See Wood, George R., assignor.)
Woodberry, John H., U. S. Army. Delay-action mechanism for fuses. No. 1,376,908; May 3; v. 286; p. 101.
Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making propellent powder. No. 1,379,073; May 24; v. 286; p. 696.
Woodruff, Alvie C., Burns, Oreg. Check-protector. No. 1,377,651; May 10; v. 286; p. 299.
Woodruff, Dwight B., Olathe, Colo. Canoe-trailer for motor-vehicles. No. 1,376,496; May 3; v. 286; p. 22.
Woods, John W., Walla Walla, Wash. Bucket elevator. No. 1,376,989; May 3; v. 286; p. 116.
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electrically-heated bake oven. No. 1,378,080; May 17; v. 286; p. 435.
Woodson, John B., Fayette, Mo. Fence-clamp. No. 1,377,540; May 10; v. 286; p. 277.
Woodville, Richard C., assignor to A. Ryner, London, England. Spanner. No. 1,378,160; May 17; v. 286; p. 450.
Woodward Differential Gear Co. (See Woodward, Irving C., assignor.)
Woodward, Irving C., assignor to Woodward Differential Gear Co., Chicago, Ill. Differential gearing. No. 1,377,380; May 10; v. 286; p. 248.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Box or receptacle. No. 1,378,508; May 17; v. 286; p. 515.
Woolhiser, Jay H., Elmhurst, N. Y. Favor. No. 1,377,741; May 10; v. 286; p. 316.
Woolner, Hugh. (See Jenkins, H. C., and Woolner.)
Worcester, Alfred M., Cincinnati, Ohio. Animal-trap for catching rats, mice, and the like. No. 1,379,326; May 24; v. 286; p. 745.
Worcester, James, Waltham, Mass. Propelling mechanism for vessels. No. 1,380,283; May 31; v. 286; p. 999.
Workman, Ross A., Springfield, Mo. Power transmission. No. 1,378,751; May 17; v. 286; p. 563.
Worrall, Charles L., Pasadena, Calif. Air-washing device. No. 1,377,381; May 10; v. 286; p. 248.

Worsham, Louis W., Houston, Tex. Draft attachment for motor-vehicles. No. 1,378,575; May 17; v. 286; p. 528.
Worth, James M., Chicago, Ill. Traction mechanism. No. 1,376,851; May 3; v. 286; p. 90.
Worthington Pump and Machinery Corporation. (See Decrow, David A., assignor.)
Wosinski, Bert, assignor to Loudon Manufacturing Company, Grand Rapids, Mich. Dispensing-showcase. No. 1,379,793; May 31; v. 286; p. 906.
Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,378,990; May 24; v. 286; p. 681.
Wright, Herbert A., Clarence, Mo., and C. W. Kennedy, Benton, Mont. Auto signaling device. No. 1,379,503; May 24; v. 286; p. 778.
Wright, John G., Tyler, Tex. Adjustable flat die. No. 1,377,954; May 10; v. 286; p. 359.
Wright, Joseph H., Henderson, Tex. Rolling fender. No. 1,376,910; May 3; v. 286; p. 101.
Wright, Kirk K., assignor of one-half to R. G. Wright, Buffalo, N. Y. Pasteurizer. No. 1,377,742; May 10; v. 286; p. 316.
Wright, Leo, St. Catharines, Ontario, Canada. Twine-holder. No. 1,378,752; May 17; v. 286; p. 563.
Wright, Ralph G. (See Wright, Kirk K., assignor.)
Wroughton, George T., Los Angeles, Calif. Valve-spring lifter for internal-combustion engines. No. 1,380,328; May 31; v. 286; p. 1007.
Wrubel, Stanislaw, Genoa, Nebr. Anticreeping rail-chair. No. 1,380,284; May 31; v. 286; p. 999.
Wunder, John, New York, N. Y. Collar-button. No. 1,379,377; May 24; v. 286; p. 754.
Wurscher, Joseph, St. Paul, Minn. Siphon-filter. No. 1,378,929; May 24; v. 286; p. 669.
Wyler, Leopold, *et al.* (See Fahrni, Otto, assignor.)
Wyman, George S., Binghamton, N. Y., assignor to N. Primel, Johnstown, Pa. Container, shipping-case, crate, and box. No. 1,377,382; May 10; v. 286; p. 248.
Yaeger, Beatrice, Columbia Heights, Minn. Sleeve-protector. No. 1,378,081; May 17; v. 286; p. 435.
Yale & Towne Manufacturing Company, The. (See Augenbrun, Peter F., assignor.)
Yale & Towne Manufacturing Company, The. (See Bock, Alfred C. O. assignor.)
Yale & Towne Manufacturing Company, The. (See Morgan, J. C., and Schroeder, assignors.)
Yanochowski, George A, Chicago, Ill., and H. E. Hershey, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,379,017; May 24; v. 286; p. 686.
Yates, Martha A., and O., Portland, Oreg. Rack. No. 1,378,161; May 17; v. 286; p. 450.
Yates, Odaville. (See Yates, Martha A., and O.)
Yawman, Frederick G., Rochester, N. Y. Bottle-capping device. No. 1,379,429; May 24; v. 286; p. 764.
Yeager, Peter E., Reading, Pa. Modifying attachment for sound-reproducing machines. No. 1,377,652; May 10; v. 286; p. 299.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and making the same. No. 1,379,430; May 24; v. 286; p. 395.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making the same. No. 1,379,431; May 24; v. 286; p. 764.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and making the same. No. 1,379,432; May 24; v. 286; p. 764.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Wooden-back printing-block. No. 1,379,433; May 24; v. 286; p. 764.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making the same. No. 1,379,434; May 24; v. 286; p. 764.
Yeomans, Lucien I., assignor, by mesne assignments, to Amalgamated Machinery Corporation, Chicago, Ill. Process and machine for making crank-shafts for engines, compressors, and the like. No. 1,378,642; May 17; v. 286; p. 541.
Yoder, Carl M., Cleveland, Ohio. Rolling or bending machine. No. 1,376,497; May 3; v. 286; p. 22.
Yoder, Charles B., Webster Groves, Mo. Automatic control for electric irons. No. 1,378,082; May 17; v. 286; p. 435.
Yolton, Robert E., Birmingham, Ala., assignor to Kilby Frog & Switch Company. Guard-rail clamp. No. 1,380,329; May 31; v. 286; p. 1007.
Youle, William E., assignor of one-half to J. F. Holbrook, Los Angeles, Calif. Casing-spear. No. 1,377,301; May 10; v. 286; p. 232.
Young, Axel V., De Beque, Colo. Retort for extracting oil, &c. No. 1,378,643; May 17; v. 286; p. 542.
Young, Charles W., Cleveland, Ohio. Skinning-tool. No. 1,379,153; May 24; v. 286; p. 711.
Young, Harry, Philadelphia, Pa. Water-heating top for gas-stoves. No. 1,379,154; May 24; v. 286; p. 711.
Young, Jacob L., New Rochelle, N. Y. Dental appliance. No. 1,378,306; May 17; v. 286; p. 477.
Young, Jacob P., Huntington, Ind. Sanitary stool-seat cover. No. 1,377,541; May 10; v. 286; p. 278.
Young, John, Mount Vernon, N. Y. Variable-speed transmission. No. 1,379,504; May 24; v. 286; p. 778.
Young, William H., Los Angeles, Calif. Apparatus for cracking and refining petroleum products. No. 1,378,307; May 17; v. 286; p. 477.
Yuengling, John. (See Wells, John V., assignor.)
Zabriskie, Henry L., Westfield, and F. Diehl, assignors to Diehl Manufacturing Co., Elizabeth, N. J. Lubricating-ring. No. 1,379,505; May 24; v. 286; p. 778.
Zabriskie, William F., Detroit, Mich. Collapsible reinforcement for reinforced concrete construction. No. 1,376,990; May 3; v. 286; p. 116.
Zamecnik, Frank, Washington, D. C. Operating-table. No. 1,378,930; May 24; v. 286; p. 670.
Zappey, Michael S., Johnstown, Pa. Wreck-indicating buoy. No. 1,377,046; May 3; v. 286; p. 127.
Zastrow, George W., Windsor Hills, assignor, by mesne assignments, to Zastrow Machine Company, Inc., Baltimore, Md. Crane. No. 1,379,378; May 24; v. 286; p. 754.
Zastrow Machine Company. (See Zastrow, George W., assignor.)
Zawistowski, Martin, Brooklyn, N. Y. Cloth-cutting machine. No. 1,378,162; May 17; v. 286; p. 450.
Zawistowski, Martin, Brooklyn, N. Y. Base for cloth-cutting machines. No. 1,378,163; May 17; v. 286; p. 450.
Zeidler, William A., and M. L. Ferentz, New York, N. Y. Changeable advertising-sign. No. 1,380,170; May 31; v. 286; p. 978.
Zeuthen, Anders C. A., Silkeborg, Denmark. Churn or churn-kneader. No. 1,379,950; May 31; v. 286; p. 936.
Ziefel, Charles, and K. J. Gloekler, Pittsburgh, Pa. Showcase and counter-guard construction. No. 1,379,554; May 24; v. 286; p. 787.
Ziegler, George J., assignor of one-third to S. Gibbons, one-third to E. Stewart, and one-third to F. C. Bentel, Los Angeles, Calif. Flexible coupling. No. 1,380,330; May 31; v. 286; p. 1007.
Ziegler, Oscar J., River Rouge, Mich. Apparatus for treating ore. No. 1,377,542; May 10; v. 286; p. 278.
Zimmerman, Edward G., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Furnace-eyesight. No. 1,376,498; May 3; v. 286; p. 23.
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Zwilling, Theodore F., Upper Sandusky, Ohio. Paper-holder. No. 1,378,753; May 17; v. 286; p. 563.

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Allen, Edward G., and A. A. Hagar, Seattle, Wash., assignors of one-third to W. H. Bullinger, Los Angeles, Calif. Casing for scales. No. 57,960; May 24; v. 286; p. 797.
Amati, Frank, Trenton, N. J. Finger-ring. No. 58,008; May 31; v. 286; p. 1010.
American Can Company. (See Eberhart, Felix, assignor.)
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Armacost, William E., assignor to The Columbus Tire & Rubber Company, Columbus, Ohio. Rubber tire. No. 57,759; May 3; v. 286; p. 151.
Arnoll, Arthur G., Glendale, Calif., assignor to National Carbon Company, Inc. Flashlight-head. No. 57,760; May 3; v. 286; p. 151.
Arrousez, Frank P. (See Hollins, W. C., and Arrousez.)
Art Rattan Works. (See Ferreira, Charles E., assignor.)
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Austin, Ellsworth W., Plymouth, Conn. Radiator-cap. No. 57,761; May 3; v. 286; p. 151.
Automotive Radiator Machine Company. (See Thompson, Elmer B., assignor.)
Autoyre Company, The. (See Mosgrove, Charles A., assignor.)
Baj, J., and L. Marciniak, Port Chester, N. Y. Flytrap. No. 58,009; May 31; v. 286; p. 1010.
Balda, Joseph O., assignor to A. H. Heisey & Co., Newark, Ohio. Surface ornamentation applied to an article of manufacture. No. 57,806; May 10; v. 286; p. 368.
Baribault, Lucien J., West Haven, assignor of one-half to L. M. Ryman, New Haven, Conn. Velocipede-frame. Nos. 57807–8; May 10; v. 286; p. 368.
Barnes, Horace, Seattle, Wash. Radiometer-case. No. 57,762; May 3; v. 286; p. 151.
Bartlett, Harry O., assignor to Bowers & Bartlett, Inc., Washington, D. C. Gear-casing for washing-machines. No. 57,809; May 10; v. 286; p. 368.
Bartlett, Harry O., assignor to Bowers & Bartlett, Inc., Washington, D. C. Frame for a clothes-wringer. No. 58,010; May 31; v. 286; p. 1010.

Willgrubs, Leonard G., Sparta, Wis. Bean-thresher. No. 1,377,041; May 3; v. 286; p. 126.
Williford, Ella, Detroit, Mich. Attachment for the backs of seats. No. 1,379,499; May 24; v. 286; p. 777.
Willis, Bernard D., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,376,848; May 3; v. 286; p. 89.
Willis, Frank H., assignor of one-third to W. A. Dowdell and one-third to C. H. Jackson, Toronto, Ontario, Canada. Valve. No. 1,377,240; May 10; v. 286; p. 220.
Willmon, Jeremy C., Los Angeles, Calif. Vehicle-wheel. No. 1,378,303; May 17; v. 286; p. 476.
Willson, George M., Williamsport, Pa. Spring-motor governor. No. 1,378,206; May 17; v. 286; p. 458.
Wills, Marmaduke M., Fitchburg, Mass., assignor to The Regina Company, New York, N. Y. Starting and stopping mechanism for talking-machines. No. 1,379,069; May 24; v. 286; p. 695.
Willys Corporation. (See Post, Truman W., assignor.)
Willys-Overland Company, The. (See Kamper, Edward, assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Willys-Overland Company. (See Lightner, A. D., and Holmes, assignors.)
Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
Willys-Overland Company, The. (See Miller, John C., assignor.)
Willys-Overland Company, The. (See Pomeroy, Percy W., assignor.)
Wilming, Otto A. (See Burke, J. H., and Wilming.)
Wilson, Charles C. (See Campbell, Ronald E., assignor.)
Wilson, Clarence, Waynesburg, Pa. Toaster. No. 1,377,043; May 3; v. 286; p. 127.
Wilson & Company. (See Kurk, Frederick W., assignor.)
Wilson, Connie H., and C. G. Lee, Asheville, N. C. Thermos-bottle attachment. No. 1,380,128; May 31; v. 286; p. 969.
Wilson, Dewey E., Oakland, Iowa. Motor-meter lock. No. 1,379,669; May 31; v. 286; p. 883.
Wilson, George H., Augusta, Ga. Attachment for slashers and finishers. No. 1,377,044; May 3; v. 286; p. 127.
Wilson, George H., Augusta, Ga. Warp stop device. No. 1,377,045; May 3; v. 286; p. 127.
Wilson, Herman T. (See Brant, P., and Wilson.)
Wilson, Reginald P. (See Twyman, F., and Wilson.)
Wilson, William G., West New Brighton, N. Y. Sink-seal. No. 1,379,501; May 24; v. 286; p. 777.
Wilson, William R., Terre Haute, Ind. Roller-bearing hub. No. 1,379,670; May 31; v. 286; p. 883.
Wimmer, Hugo, Bath, Me. Rotary cutter and paint-remover. No. 1,377,537; May 10; v. 286; p. 277.
Winchester Repeating Arms Co. (See Butler, George P., assignor.)
Winckelmann, Max, Kiel, Germany. Foldable aeroplane-wing and the like. No. 1,377,538; May 10; v. 286; p. 277.
Winders, Bayard L. (See Durborow, Harry J., assignor.)
Window Glass Machine Company. (See Clark, Henry F., assignor.)
Windsor, Charles H., Palmyra, N. J. Sanitary basin for lavatories. No. 1,379,152; May 24; v. 286; p. 711.
Wine, William E., Toledo, Ohio. Precipitator. No. 1,377,996; May 10; v. 286; p. 366.
Wineman, Charles P., assignor to Detroit Twist Drill Company, Detroit, Mich. Making drills. No. 1,379,070; May 24; v. 286; p. 695.
Wineman, Charles P., assignor to Detroit Twist Drill Company, Detroit, Mich. Twisting-machine. No. 1,379,071; May 24; v. 286; p. 695.
Winestock, Otto C., Perkinsville, assignor to W. W. Slack, Springfield, Vt. Indurated porous material and forming same. No. 1,377,241; May 10; v. 286; p. 220.
Winger, Fred F. (See Burns, R. L., and Winger.)
Winkelman, Fred G., Manitowoc, Wis. Cooking utensil. No. 1,379,072; May 24; v. 286; p. 696.
Winn, Chester B., Buffalo, N. Y. Artificial leg. No. 1,379,293; May 24; v. 286; p. 738.
Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Trailer-braking means for trucks and tractors. No. 1,378,749; May 17; v. 286; p. 562.
Winter, Anna K., Brooklyn, N. Y. Car-door safety-signal. No. 1,376,849; May 3; v. 286; p. 89.
Winterhoff, Benjamin F., Elkhart, Ind. Socket for wind instruments. No. 1,376,986; May 3; v. 286; p. 116.
Winther, Martin P., Kenosha, Wis., assignor to Winther Motor Truck Company. Vehicle front-wheel driving mechanism. No. 1,379,792; May 31; v. 286; p. 906.
Winther Motor Truck Company. (See Winther, Martin P., assignor.)
Wirebounds Patents Company. (See Brown, Hugh, assignor.) (Reissue.)
Wirfs, Edward J., assignor to National Refrigerators Company, St. Louis, Mo. Refrigerator. No. 1,377,451; May 10; v. 286; p. 262.
Wirt, Charles, Philadelphia, Pa. Making electric heaters. No. 1,376,987; May 3; v. 286; p. 116.
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 1,379,890; May 31; v. 286; p. 924.
Wisch, Walter J. (See Holmes, G. R., and Wisch.)
Wise, Clarence E., Washington, D. C. Portable tool for securing binding material to receptacles. No. 1,376,597; May 3; v. 286; p. 41.
Witham, George S., Jr., Hudson Falls, N. Y. Temperature-regulator. No. 1,378,927; May 24; v. 286; p. 669.
Withington, Philip H., assignor to The Sparks-Withington Company, Cleveland, Ohio. Manufacture of fans. No. 1,377,300; May 10; v. 286; p. 232.
Withrow, Floyd G., Grand Rapids, Mich. Spark and throttle rod tension appliance. No. 1,380,169; May 31; v. 286; p. 977.
Witty, George, New York, N. Y. Paint vehicle and making the same. No. 1,379,235; May 24; v. 286; p. 727.
Witzel, Joseph R., Tacony, Pa. Building construction. No. 1,378,928; May 24; v. 286; p. 669.
Wodraska, Walter J., New York, N. Y. Safety device for gas-ranges. No. 1,376,909; May 3; v. 286; p. 101.
Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft-gear. No. 1,378,393; May 17; v. 286; p. 493.
Wolcott, Frank E., Hartford, Conn. Dish-washing-machine receptacle. No. 1,380,310; May 31; v. 286; p. 1003.
Wolf, David, New York, N. Y. Hair-net. No. 1,379,286; May 24; v. 286; p. 727.
Wolfe, Charles F., New York, N. Y. Lubricator for guide-rails. No. 1,378,750; May 17; v. 286; p. 563.
Wolfe, Charles H., Port Clinton, Ohio. Vehicle-lamp mounting. No. 1,376,988; May 3; v. 286; p. 116.
Wolff, H., estate, The. (See Levine, Bernard, assignor.)
Wolff, Henry, New York, N. Y. Attachment for ink-bottles. No. 1,380,129; May 31; v. 286; p. 930.
Wollenhaupt, Justus J., assignor to The Monitor Stove Company, Cincinnati, Ohio. Pipeless hot-air furnace for buildings. No. 1,377,539; May 10; v. 286; p. 277.
Wommer, Frederic, Minneapolis, Minn. Cream-extractor. No. 1,377,650; May 10; v. 286; p. 299.
Wompey, John J., Denver, Colo., assignor to The L. Grauman Fixture Company. Soda-fountain. No. 1,380,130; May 31; v. 286; p. 970.
Wood, Albert G., Jr., assignor to Henry Ford Hospital, Detroit, Mich. Water-closet bowl. No. 1,376,907; May 3; v. 286; p. 101.
Wood, Casimir J., San Francisco, Calif. Reamer and cutter. No. 1,376,790; May 3; v. 286; p. 77.
Wood, Galen, Seattle, Wash. Lawn-mower. No. 1,377,953; May 10; v. 286; p. 358.
Wood, George L., Worcester, Mass. Support for expanding reamers. No. 1,378,989; May 24; v. 286; p. 680.
Wood, George R., assignor of one-half to W. A. Wood, Sr., Montreal, Quebec, Canada. Computing-machine. No. 1,376,850; May 3; v. 286; p. 89.
Wood, George W. (See Strickland, O. S., and Wood.)
Wood, Harry L., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Water-pan for hot-air furnaces. No. 1,379,325; May 24; v. 286; p. 744.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Pasting device for web-presses. No. 1,378,304; May 17; v. 286; p. 477.
Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Web-roll tension and supporting device. No. 1,378,305; May 17; v. 286; p. 477.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Nordfors, assignors.)
Wood, William A., Sr. (See Wood, George R., assignor.)
Woodberry, John H., U. S. Army. Delay-action mechanism for fuses. No. 1,376,908; May 3; v. 286; p. 101.
Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making propellent powder. No. 1,379,073; May 24; v. 286; p. 696.
Woodruff, Alvie C., Burns, Oreg. Check-protector. No. 1,377,651; May 10; v. 286; p. 299.
Woodruff, Dwight B., Olathe, Colo. Canoe-trailer for motor-vehicles. No. 1,376,496; May 3; v. 286; p. 22.
Woods, John W., Walla Walla, Wash. Bucket elevator. No. 1,376,989; May 3; v. 286; p. 116.
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electrically-heated bake oven. No. 1,378,080; May 17; v. 286; p. 435.
Woodson, John B., Fayette, Mo. Fence-clamp. No. 1,377,540; May 10; v. 286; p. 277.
Woodville, Richard C., assignor to A. Ryner, London, England. Spanner. No. 1,378,160; May 17; v. 286; p. 450.
Woodward Differential Gear Co. (See Woodward, Irving C., assignor.)
Woodward, Irving C., assignor to Woodward Differential Gear Co., Chicago, Ill. Differential gearing. No. 1,377,380; May 10; v. 286; p. 248.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Box or receptacle. No. 1,378,508; May 17; v. 286; p. 515.
Woolhiser, Jay H., Elmhurst, N. Y. Favor. No. 1,377,741; May 10; v. 286; p. 316.
Woolner, Hugh. (See Jenkins, H. C., and Woolner.)
Worcester, Alfred M., Cincinnati, Ohio. Animal-trap for catching rats, mice, and the like. No. 1,379,326; May 24; v. 286; p. 745.
Worcester, James, Waltham, Mass. Propelling mechanism for vessels. No. 1,380,283; May 31; v. 286; p. 999.
Workman, Ross A., Springfield, Mo. Power transmission. No. 1,378,751; May 17; v. 286; p. 563.
Worrall, Charles L., Pasadena, Calif. Air-washing device. No. 1,377,381; May 10; v. 286; p. 248.

Worsham, Louis W., Houston, Tex. Draft attachment for motor-vehicles. No. 1,378,575; May 17; v. 286; p. 528.
Worth, James M., Chicago, Ill. Traction mechanism. No. 1,376,851; May 3; v. 286; p. 90.
Worthington Pump and Machinery Corporation. (See Decrow, David A., assignor.)
Wosinski, Bert, assignor to Loudon Manufacturing Company, Grand Rapids, Mich. Dispensing-showcase. No. 1,379,793; May 31; v. 286; p. 906.
Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,378,990; May 24; v. 286; p. 681.
Wright, Herbert A., Clarence, Mo., and C. W. Kennedy, Benton, Mont. Auto signaling device. No. 1,379,503; May 24; v. 286; p. 778.
Wright, John G., Tyler, Tex. Adjustable flat die. No. 1,377,954; May 10; v. 286; p. 359.
Wright, Joseph H., Henderson, Tex. Rolling fender. No. 1,376,910; May 3; v. 286; p. 101.
Wright, Kirk K., assignor of one-half to R. G. Wright, Buffalo, N. Y. Pasteurizer. No. 1,377,742; May 10; v. 286; p. 316.
Wright, Leo, St. Catharines, Ontario, Canada. Twine-holder. No. 1,378,752; May 17; v. 286; p. 563.
Wright, Ralph G. (See Wright, Kirk K., assignor.)
Wroughton, George T., Los Angeles, Calif. Valve-spring lifter for internal-combustion engines. No. 1,380,328; May 31; v. 286; p. 1007.
Wrubel, Stanislaw, Genoa, Nebr. Anticreeping rail-chair. No. 1,380,284; May 31; v. 286; p. 999.
Wunder, John, New York, N. Y. Collar-button. No. 1,379,377; May 24; v. 286; p. 754.
Wurscher, Joseph, St. Paul, Minn. Siphon-filter. No. 1,378,929; May 24; v. 286; p. 669.
Wyler, Leopold, *et al.* (See Fahrni, Otto, assignor.)
Wyman, George S., Binghamton, N. Y., assignor to N. Primel, Johnstown, Pa. Container, shipping-case, crate, and box. No. 1,377,382; May 10; v. 286; p. 248.
Yaeger, Beatrice, Columbia Heights, Minn. Sleeve-protector. No. 1,376,081; May 17; v. 286; p. 435.
Yale & Towne Manufacturing Company, The. (See Augenbrun, Peter F., assignor.)
Yale & Towne Manufacturing Company, The. (See Bock, Alfred C. O. assignor.)
Yale & Towne Manufacturing Company, The. (See Morgan, J. C., and Schroeder, assignors.)
Yanochowski, George A, Chicago, Ill., and H. E. Hershey, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,379,017; May 24; v. 286; p. 686.
Yates, Martha A., and O., Portland, Oreg. Rack. No. 1,378,161; May 17; v. 286; p. 450.
Yates, Odaville. (See Yates, Martha A., and O.)
Yawman, Frederick G., Rochester, N. Y. Bottle-capping device. No. 1,379,429; May 24; v. 286; p. 764.
Yeager, Peter E., Reading, Pa. Modifying attachment for sound-reproducing machines. No. 1,377,652; May 10; v. 286; p. 299.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and making the same. No. 1,379,430; May 24; v. 286; p. 395.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making the same. No. 1,379,431; May 24; v. 286; p. 764.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and making the same. No. 1,379,432; May 24; v. 286; p. 764.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Wooden-back printing-block. No. 1,379,433; May 24; v. 286; p. 764.
Yeoell, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making the same. No. 1,379,434; May 24; v. 286; p. 764.
Yeomans, Lucien I., assignor, by mesne assignments, to Amalgamated Machinery Corporation, Chicago, Ill. Process and machine for making crank-shafts for engines, compressors, and the like. No. 1,378,642; May 17; v. 286; p. 541.
Yoder, Carl M., Cleveland, Ohio. Rolling or bending machine. No. 1,376,497; May 3; v. 286; p. 22.
Yoder, Charles B., Webster Groves, Mo. Automatic control for electric irons. No. 1,378,082; May 17; v. 286; p. 435.
Yolton, Robert E., Birmingham, Ala., assignor to Kilby Frog & Switch Company. Guard-rail clamp. No. 1,380,329; May 31; v. 286; p. 1007.
Youle, William E., assignor of one-half to J. F. Holbrook, Los Angeles, Calif. Casing-spear. No. 1,377,301; May 10; v. 286; p. 232.
Young, Axel V., De Beque, Colo. Retort for extracting oil, &c. No. 1,378,643; May 17; v. 286; p. 542.
Young, Charles W., Cleveland, Ohio. Skinning-tool. No. 1,379,153; May 24; v. 286; p. 711.
Young, Harry, Philadelphia, Pa. Water-heating top for gas-stoves. No. 1,379,154; May 24; v. 286; p. 711.
Young, Jacob L., New Rochelle, N. Y. Dental appliance. No. 1,378,306; May 17; v. 286; p. 477.
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Automotive Radiator Machine Company. (See Thompson, Elmer B., assignor.)
Autoyre Company, The. (See Mosgrove, Charles A., assignor.)
Baj, J., and L. Marciniak, Port Chester, N. Y. Flytrap. No. 58,009; May 31; v. 286; p. 1010.
Balda, Joseph O., assignor to A. H. Heisey & Co., Newark, Ohio. Surface ornamentation applied to an article of manufacture. No. 57,806; May 10; v. 286; p. 368.
Baribault, Lucien J., West Haven, assignor of one-half to L. M. Ryman, New Haven, Conn. Velocipede-frame. Nos. 57807–8; May 10; v. 286; p. 368.
Barnes, Horace, Seattle, Wash. Radiometer-case. No. 57,762; May 3; v. 286; p. 151.
Bartlett, Harry O., assignor to Bowers & Bartlett, Inc., Washington, D. C. Gear-casing for washing-machines. No. 57,809; May 10; v. 286; p. 368.
Bartlett, Harry O., assignor to Bowers & Bartlett, Inc., Washington, D. C. Frame for a clothes-wringer. No. 58,010; May 31; v. 286; p. 1010.

Bartley, William A., Washington, N. J. Sectional sash-weight. Nos. 57,810–11; May 10; v. 286; p. 368.
Basten, Otto, assignor to Sterling Tire Corporation, Rutherford, N. J. Tire. No. 57,881; May 17; v. 286; p. 579.
Beardmore, Clarence A., Annapolis, Md. Indicator for automobiles. No. 57,763; May 3; v. 286; p. 152.
Beatty, William F., Cincinnati, Ohio. Soda-fountain and ice-cream-dispensing apparatus. No. 58,011; May 31; v. 286; p. 1010.
Becker, Henry M., Hartford, Conn. Game. No. 58,012; May 31; v. 286; p. 1011.
Bergman, Paul A., Portland, Oreg. Phonograph-cabinet. No. 57,882; May 17; v. 286; p. 579.
Bevan, Dorothy L., San Francisco, Calif. Lamp-shade. No. 58,013; May 31; v. 286; p. 1011.
Black, Mathew, Brooklyn, assignor to H. Brudney, New York, N. Y. Mixing and stirring device. No. 57,883; May 17; v. 286; p. 579.
Black, Samuel D., and A. G. Decker, assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Housing for electric air compressors and motors. No. 57,812; May 10; v. 286; p. 369.
Black, Walter A., Perry, Iowa. Tire-core. No. 57,813; May 10; v. 286; p. 369.
Blekre, Edgar O., Minneapolis, Minn. Elastic vehicle-tire. Nos. 57,764–7; May 3; v. 286; p. 152.
Boisvert, William R., St. David, Quebec, Canada. Portable lamp. Nos. 57,884–5; May 17; v. 286; p. 579.
Bond, Arthur J. (See Bradshaw, W. T., and Bond.)
Bourgeois, Rudolph J., Chicago, Ill., and G. P. Ittig, Bridgeport, Conn., assignors to W. D. Smith Silver Company. Percolator, urn, or similar article. No. 57,814; May 10; v. 286; p. 369.
Bowers & Bartlett. (See Bartlett, Harry O., assignor.)
Boyer, Harry, *et al.* (See Williams, Ardle, assignor.)
Bozzelle, William V., and J. W. Hummel, Philadelphia, Pa. Waffle-iron. No. 57,961; May 24; v. 286; p. 798.
Bradshaw, William T., and A. J. Bond, Oakland, Calif. Bottle-holder. No. 58,014; May 31; v. 286; p. 1011.
Breitenstein, Arthur L., Akron, assignor to Hannibal Rubber Company, Hannibal, Ohio. Tire-tread. Nos. 57,886–7; May 17; v. 286; pp. 579–80.
Broberg, Victor T., Luck, Wis. Sled. No. 58,015; May 31; v. 286; p. 1011.
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown, John C., Minneapolis, Minn. Pastry-tool. No. 57,815; May 10; v. 286; p. 369.
Brown, John R., Cleveland, assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond terminal. No. 58,016; May 31; v. 286; p. 1011.
Brown, William, St. Louis, Mo. Fan. No. 57,816; May 10; v. 286; p. 369.
Brubaker, William A., Akron, Ohio, assignor to Nu-Cord Rubber Company, Greensburg, Pa. Automobile-tire. No. 58,017; May 31; v. 286; p. 1012.
Brudney, Harry. (See Black, Mathew, assignor.)
Bullinger, Willis H. (See Allen, E. G., and Hagar, assignors.)
Burkhardt, Curt R. (See Scharwath, John A., assignor.)
Butler, Robert, Barberton, Ohio. Vehicle-tire. Nos. 57,888–9; May 17; v. 286; p. 580.
Campbell, Edward L., assignor to The J. R. Watkins Company, Winona, Minn. Vehicle tire or casing. No. 58,018; May 31; v. 286; p. 1012.
Cartier, Inc. (See Hartnett, Joseph P., assignor.)
Century Manufacturing Company, The. (See Lebzelter, William F., assignor.)
Chadwick, Almon, San Antonio, Tex. Wrench. No. 57,768; May 3; v. 286; p. 152.
Chase Companies, The. (See Recker, Adolph C., assignor.)
Cimino, Nicola, Providence, R. I. Curtain-pole bracket. No. 57,817; May 10; v. 286; p. 370.
Collier, Paul R., Philadelphia, Pa. Headlight. Nos. 57,890–1; May 17; v. 286; p. 580.
Collier, Paul R., Philadelphia, Pa. Receptacle-plug. No. 58,019; May 31; v. 286; p. 1012.
Columbus Tire & Rubber Company, The. (See Armacost, William E., assignor.)
Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 58,020; May 31; v. 286; p. 1012.
Cooley, Charles A., Columbus, Ohio. Cabinet. No. 57,769; May 3; v. 286; p. 153.
Corl, John F., Cleveland, Ohio. Hood for motor-vehicles. Nos. 57,962–3; May 24; v. 286; p. 798.
Corning Glass Works. (See Mannel, W. N., and Pascucci, assignors.)
Courtot, Louis, Paris, France, assignor to American Radiator Company, Chicago, Ill. Radiator-section. No. 57,818; May 10; v. 286; p. 370.
Crane, Raymond E., Wilmette, Ill. Washbasin. No. 57,770; May 3; v. 286; p. 153.
Crimi, Salvatore, New York, N. Y. Combined clock and phonograph-cabinet. No. 57,892; May 17; v. 286; p. 581.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Dish. Nos. 57,819–21; May 10; v. 286; p. 370.
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Fruit-dish or article of similar nature. Nos. 57,822–4; May 10; v. 286; p. 371.
Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
Dabrowski, Karol. (See Sala, S., and Dabrowski.)
Damon, Murray C., Leominster, Mass. Button. No. 57,825; May 10; v. 286; p. 371.
Davidson, Joseph W., Cincinnati, Ohio. Wall-bracket or candelabrum for electric and other illumination. No. 57,964; May 24; v. 286; p. 798.
Daving, Joseph, New York, N. Y. Watchcase or locket. No. 58,021; May 31; v. 286; p. 1012.
Decker, Alonzo G. (See Black, S. D., and Decker.)
Detroit Steel Company. (See Putnam, Alden L., assignor.)
Diamond Match Company, The. (See Merritt, Edwin A., assignor.)
Diamond Match Company, The. (See West, George R., assignor.)
Diamond Toy Corporation, The. (See Newell, Peter S. H., assignor.)
Divine, Edward O., Central City, Nebr. Automobile ignition-shield. No. 57,771; May 3; v. 286; p. 153.
Dixie Rubber Company, The. (See Greene, William J., assignor.)
Double Safety Signal Company. (See Edgerton, Israel V., assignor.)
Doyle, Dayton A., Jr., Akron, Ohio. Elastic vehicle-tire. No. 58,022; May 31; v. 286; p. 1012.
Drey, Leo A., St. Louis, Mo., and J. L. Hiatt, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo. Fruit-jar. No. 57,772; May 3; v. 286; p. 153.
Dunkelberger, Milton S., Dayton, Ohio. Collapsible baby-carriage. No. 57,773; May 3; v. 286; p. 153.
Duodisk Steel Wheel Corporation. (See Lougheed, Victor, assignor.)
Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 57,893; May 17; v. 286; p. 581.
Edgerton, Israel V., assignor to Double Safety Signal Company, Chicago, Ill. Signal. No. 57,965; May 24; v. 286; p. 798.
Eklund, Georg, Winona, Minn. Toy vehicle. No. 57,894; May 17; v. 286; p. 581.
Enterprise Manufacturing Co., The. (See Pflueger, Charles T., assignor.)
Fadum & Jackson. (See Fadum, Torgeir B., assignor.)
Fadum, Torgeir B., La Salle, assignor to Fadum & Jackson, Niagara Falls, N. Y. Heel-plate. No. 57,826; May 10; v. 286; p. 371.
Fairbank, N. K., Company, The. (See Lang, Arthur C., assignor.)
Farber, Harry and L., New York, N. Y. Bonbon dish. No. 57,827; May 10; v. 286; p. 371.
Farber, Louis. (See Farber, Harry and L.)
Federal Tin Company. (See Svendsen, Ole M., assignor.)
Fern, John A., Cincinnati, Ohio. Phonograph-case. Nos. 57,828–9; May 10; v. 286; p. 372.
Ferreira, Charles E., assignor to Art Rattan Works, San Francisco, Calif. Phonograph-cabinet. No. 57,895; May 17; v. 286; p. 581.
Ford Motor Company. (See Galamb, Joseph, assignor.)
Ford Meter Box Company. (See Kelch, Lloyd, assignor.)
Foresman, Guy E., La Fayette, Ind. Automobile-tire tread. No. 57,830; May 10; v. 286; p. 372.
Forsyth, George H., Chicago, Ill. Wheel. Nos. 57,966–7; May 24; v. 286; pp. 798–9.
Francis, Victor R., Detroit, Mich. Wheel-chock. No. 57,774; May 3; v. 286; p. 153.
Frederick, Carl K., Detroit, Mich. Set of playing-cards. No. 57,896; May 17; v. 286; p. 581.
Frederick, Timothy D., San Francisco, Calif. Rule-holder. No. 57,831; May 10; v. 286; p. 372.
Friedly-Voshardt Co. (See Wellman, Lester R., assignor.)
Fuld, William A. (See Norwood, Harry G., assignor.)
Gaertner, Victor, New York, N. Y. Article of hollow tableware. Nos. 57,832–3; May 10; v. 286; p. 372.
Galamb, Joseph, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Tire-carrier. No. 57,897; May 17; v. 286; p. 581.
Gelder, Leo V., Oakland, Calif. Preheating-chamber for domestic boilers. No. 58,023; May 31; v. 286; p. 1013.
General Top Company, The. (See Lowery, James, assignor.)
Gibson, Charles B., Chicago, Ill. Non-skid plate for automobiles. No. 57,898; May 17; v. 286; p. 582.
Goodale, Delia, Fort Collins, Colo. Service-tray. No. 57,968; May 24; v. 286; p. 799.
Goodell-Pratt Company. (See Scott, Creston W., assignor.)
Goodrich, B. F., Company, The. (See Tew, James D., assignor.)
Goodyear Tire and Rubber Company, The. (See Trogner, Roland S., assignor.)
Gordon, George D., Philadelphia, Pa. Rear-end signal device for automobiles. No. 57,834; May 10; v. 286; p. 373.
Gottfried, Jacob J., Brooklyn, N. Y. Knife and fork cleaner. No. 58,024; May 31; v. 286; p. 1013.
Graham, David F., assignor to Graham Roller Bearing Company, Coudersport, Pa. Socket-wrench. No. 57,775; May 3; v. 286; p. 154.
Graham, James, Detroit, Mich. Tire-tread. No. 57,899; May 17; v. 286; p. 582.

Graham Roller Bearing Company. (See Graham, David F., assignor.)
Grebe, A. H., & Co. (See Grebe, Alfred H., assignor.)
Grebe, Alfred H., assignor to A. H. Grebe & Co., Inc., Richmond Hill, N. Y. Control-handle for regulating apparatus. No. 57,900; May 17; v. 286; p. 582.
Greene, William J., assignor to The Dixie Rubber Company, Memphis, Tenn. Tire-tread. No. 57,835; May 10; v. 286; p. 373.
Grossman's, J., Sons. (See Schwenck, Frederick W., assignor.)
Grow, George, Boston, Mass. Tread for an automobile-tire. No. 57,836; May 10; v. 286; p. 373.
Hagar, Abner A. (See Allen, E. G., and Hagar.)
Hannibal Rubber Company. (See Breitenstein, Arthur L., assignor.)
Hartnett, Joseph P., Rockaway Beach, N. Y., assignor to Cartier, Inc. Article of manufacture. Nos. 57,969–72; May 24; v. 286; p. 799.
Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Disk wheel. No. 57,776; May 3; v. 286; p. 154.
Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Disk wheel. No. 57,973; May 24; v. 286; p. 800.
Harvey Rim & Wheel Company. (See Harvey, Louis B., assignor.)
Haselton, Marjorie S., Washington, D. C. Body of vehicle lamps. No. 57,974; May 24; v. 286; p. 800.
Heddon's, James, Sons. (See Stolley, William A., assignor.)
Heise, Roscoe S., assignor to The Miami Cycle and Manufacturing Company, Middleton, Ohio. Bicycle-pedal. No. 57,901; May 17; v. 286; p. 582.
Helsey, A. H., & Co. (See Baldu, Joseph O., assignor.)
Hersey, Elmer P., Boston, Mass. Cigar-lighter. No. 57,837; May 10; v. 286; p. 373.
Heymann, Edward I., New York, N. Y. Box-cover. No. 57,902; May 17; v. 286; p. 582.
Hiatt, James L. (See Drey, L. A., and Hiatt.)
Hollins, Willis C., and F. P. Arrousez, assignors to Rosenburg & Co., Los Angeles, Calif. Combined fuse and plug receptacle box. No. 57,975; May 24; v. 286; p. 800.
Howard, Edmond C., Norfolk, Va. Phonograph-cabinet. Nos. 57,903–8; May 17; v. 286; pp. 582–3.
Howard, John H., *et al.*, trustees. (See Howard, John H., assignor.)
Howard, John H., Minneapolis, Minn., assignor to E. G. Stegner, J. S. Ingalls, and J. H. Howard, trustees. Lens for headlights. No. 57,909; May 17; v. 286; p. 583.
Howell, Ivy D., Ballston Spa, N. Y. Direction-indicator. No. 57,910; May 17; v. 286; p. 583.
Hucal, Wasyl, Chicago, Ill. Combined lamp and talking-machine casing. No. 57,911; May 17; v. 286; p. 584.
Hultman, Charles G., Providence, R. I. Lingerie-clasp. No. 58,025; May 31; v. 286; p. 1013.
Hummel, John W. (See Bozzelle, W. V., and Hummel.)
Humphrey, Clen S., Brooklyn, N. Y. Sifter-top for a powder-can or similar receptacle. No. 58,026; May 31; v. 286; p. 1013.
Ingalls, James S., *et al.*, trustees. (See Howard, John H., assignor.)
International India Rubber Corporation. (See Odell, George W., assignor.)
International Silver Company. (See Kintz, Alfred G., assignor.)
Israel, Sidney M., Richmond Hill, N. Y. Combination lamp-stand and smoking set. Nos. 58,027–8; May 31; v. 286; p. 1013.
Ittig, George P. (See Bourgeois, R. J., and Ittig.)
Jacob, Emanuel, assignor to H. Jacob & Sons, Inc., New York, N. Y. Ticket for net goods or veilings. No. 57,838; May 10; v. 286; p. 373.
Jacob, H., & Sons. (See Jacob, Emanuel, assignor.)
Joassart, Gustave, Liege, Belgium. Motorcycle-frame. No. 57,976; May 24; v. 286; p. 800.
Johanson, Emil G., Chicago, Ill. Automobile-reflector. No. 57,912; May 17; v. 286; p. 584.
Jones, Everett R., Detroit, Mich. Automobile-bumper. No. 57,777; May 3; v. 286; p. 154.
Jurgens, William C., Oakland, Calif. Serving-tray warmer. No. 58,029; May 31; v. 286; p. 1014.
Kaitting, Herbert A., Galt, Ontario, Canada. Bracket for windshield-blinds. No. 57,977; May 24; v. 286; p. 800.
Kavan, Wladimir, New York, N. Y. Barber's pole. No. 57,978; May 24; v. 286; p. 800.
Kehoe, Thomas J., Toledo, Ohio. Automobile-hood. No. 57,839; May 10; v. 286; p. 373.
Kelch, Lloyd, assignor of one-half to Ford Meter Box Company, Wabash, Ind. Ash-tray. No. 57,013; May 17; v. 286; p. 584.
Kelley-Springfield Tire Company. (See Switzer, Maurice, assignor.)
Kelly-Springfield Tire Company. (See Waters, Reginald H., assignor.)
Kent, Arthur A., Ardmore, Pa. Ignition-contactor. No. 57,914; May 17; v. 286; p. 584.
Kern, Charles J., Buffalo, assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Doll wagon. No. 58,030; May 31; v. 286; p. 1014.
Kern, Frederick E., St. Louis, Mo. Shaping and ironing tool. No. 58,007; May 24; v. 286; p. 805.
King, Lert W., Detroit, Mich. Computing-scale. No. 57,840; May 10; v. 286; p. 374.
King, Chandler, Montgomery, Ala. Bottle. No. 57,979; May 24; v. 286; p. 801.
Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Back for hand-mirrors, brushes, or similar articles. No. 57,778; May 3; v. 286; p. 154.
Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Handle for spoons, forks, or similar articles. No. 57,779; May 3; v. 286; p. 154.
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment-plug cap. No. 57,841; May 10; v. 286; p. 374.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting-fixture. Nos. 57,915–17; May 17; v. 286; pp. 584–5.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket-back for lighting-fixtures. No. 57,918; May 17; v. 286; p. 585.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Canopy. No. 57,919; May 17; v. 286; p. 585.
Kline, Clarence A., San Francisco, Calif. Tire-tread. No. 57,842; May 10; v. 286; p. 374.
Knaub, Henry, Richmond, Va. Phonograph-cabinet. No. 58,031; May 31; v. 286; p. 1014.
Knowles, Edward L., Alliance, Ohio. Flower-holder. No. 57,843; May 10; v. 286; p. 374.
Kraeuter, Arthur A., Newark, N. J. Golf-putter head. No. 57,980; May 24; v. 286; p. 801.
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Cup. No. 57,844; May 10; v. 286; p. 374.
Lang, Arthur C., assignor to The N. K. Fairbank Company, Chicago, Ill. Cake of soap. No. 58,032; May 31; v. 286; p. 1014.
Langstaff, John E., Brooklyn, N. Y. Boat-hull. No. 58,033; May 31; v. 286; p. 1014.
Lauterbur, Frank X., Sidney, Ohio. Dough-mixer. Nos. 58,034–5; May 31; v. 286; pp. 1014–15.
Lavell, Lulu V., Minneapolis, Minn. Candle-holder. No. 57,920; May 17; v. 286; p. 585.
Lebzelter, William F., assignor to The Century Manufacturing Company, Inc., Elizabethtown, Pa. Toy-glider. No. 58,036; May 31; v. 286; p. 1015.
Lemieux, Onesime, and George Liboiron, Montreal, Quebec, Canada. Side car for motorcycles. No. 58,037; May 31; v. 286; p. 1015.
Liboiron, George. (See Lemieux, O., and Liboiron.)
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Spatula. No. 57,780; May 3; v. 286; p. 155.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Stirring and turning tool. No. 57,845; May 10; v. 286; p. 375.
Lockhart, Mary B., Portsmouth, Va. Chest or similar article. No. 57,981; May 24; v. 286; p. 801.
Loring, Walter S., Plymouth, Mass. Game-board. No. 57,982; May 24; v. 286; p. 801.
Losey, North H., Akron, Ohio. Tire-tread. No. 57,781; May 3; v. 286; p. 155.
Lougheed, Victor, Santa Barbara, assignor to Duodisk Steel Wheel Corporation, Los Angeles, Calif. Vehicle-wheel. No. 57,921; May 17; v. 286; p. 585.
Lowery, James, Euclid, assignor to The General Top Company, Cleveland, Ohio. Vehicle-top. No. 57,782; May 3; v. 286; p. 155.
Luca, Angelina U., Meriden, Conn. Window-shade. No. 57,846; May 10; v. 286; p. 375.
McCarthy, Marcelline, New Orleans, La. Condiment-shaker. No. 57,848; May 10; v. 286; p. 375.
McInerney, Margaret, Los Angeles, Calif. Refreshment-plate. No. 58,038; May 31; v. 286; p. 1015.
McKee Glass Company. (See Smith, Maurice A., assignor.)
McKone, Charles W., assignor to The Tuscan Tire & Rubber Company, Carrollton, Ohio. Automobile-tire. No. 57,849; May 10; v. 286; p. 375.
Macdonald, Angus S., Great Neck, N. Y., assignor to Snead & Company, Jersey City, N. J. Umbrella-stand. No. 57,922; May 17; v. 286; p. 585.
Mackintosh, William M., Springfield township, Summit county, Ohio. Tire. No. 57,983; May 24; v. 286; p. 801.
Mallett, Joseph A., Worcester, Mass. Wrench. No. 57,847; May 10; v. 286; p. 375.
Manning, J. E., *et al.*, trustees. (See Mullvain, Ernest E., assignor.)
Mannel, William N., and E. Pascucci, assignors to Corning Glass Works, Corning, N. Y. Combined Fresnel and plain lantern-globe. No. 57,984; May 24; v. 286; p. 801.
Manuel, William N., and E. Pascucci, assignors to Corning Glass Works, Corning, N. Y. Fresnel lantern-globe. No. 57,985; May 24; v. 286; p. 802.
Manzel, Charles W., Buffalo, N. Y. Grease-gun. No. 57,987; May 24; v. 286; p. 802.
Manzel, Charles W., Buffalo, N. Y. Oil-gun. No. 57,986; May 24; v. 286; p. 802.
Marciniak, Luci. (See Baj, J., and Marciniak.)
Martinka, Elizi K. (See Martinka, John K. and E. K.)

Martinka, John K. and E. K., assignors of one-third to M. Tomecek, New York, N. Y. Egg-tester. No. 57,988; May 24; v. 286; p. 802.
Mathieu, Frederick W. (See Strahan, G. V., and Mathieu.)
Maxim Manufacturing Company. (See Smith, Charles F. assignor.)
Meissner, Emil J., West Hoboken, N. J. Dinner-plate. No. 58,039; May 31; v. 286; p. 1015.
Merritt, Edwin A., New York, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Holder for book-matches. No. 57,923; May 17; v. 286; p. 586.
Miami Cycle and Manufacturing Company, The. (See Heise, Roscoe S., assignor.)
Morley, Samuel L., assignor to The Sebring Pottery Company, Sebring, Ohio. Plate or similar article. No. 58,040; May 31; v. 286; p. 1015.
Mosgrove, Charles A., Watertown, Conn., assignor to The Autoyre Company. Tumbler-holder. No. 57,989; May 24; v. 286; p. 802.
Mullvain, E. E., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Mullvain, Earnest E., Berkeley, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and Van A. Shafer, trustees for the National Auto Signal Company. Automobile-signal. No. 57,850; May 10; v. 286; p. 375.
National Carbon Company. (See Arnoll, Arthur G., assignor.)
Naumann, Hermann C., assignor to Peninsular Stamping Company, Detroit, Mich. Securing-clip for springs. No. 57,851; May 10; v. 286; p. 376.
New Era Toy Manufacturing Company. (See Keru, Charles J., assignor.)
Newell, Peter S. H., Leonia, N. J., assignor to The Diamond Toy Corporation, Wilmington, Del. Figure toy. Nos. 57,924–5; May 17; v. 286; p. 586.
Norden, Mortimer, New York, N. Y. Electric sign. No 57,852; May 10; v. 286; p. 376.
Norwood, Harry G., assignor to W. A. Fuld, Baltimore, Md. Seat-body for children's vehicles. No. 58,041; May 31; v. 286; p. 1016.
Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Talcum-powder can. Nos. 57,853–5; May 10; v. 286; p. 376.
Nu-Cord Rubber Company. (See Brubaker, William A., assignor.)
Odell, George W., assignor to International India Rubber Corporation, South Bend, Ind. Tire-casing. No. 57,926; May 17; v. 286; p. 586.
Ohio Brass Company, The. (See Brown, John R., assignor.)
Olson, John, Delavan, Ill. Tire. No. 57,856; May 10; v. 286; p. 376.
Order of the Eastern Star, State of New York. (See Pond, Annie M., assignor.)
Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. No. 57,857; May 10; v. 286; p. 377.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. No. 57,783; May 3; v. 286; p. 155.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Talking-machine cabinet. No. 57,990; May 24; v. 286; p. 802.
Packard Motor Car Company. (See Walker, Frederick W., assignor.)
Page, Victor W., New York, N. Y. Motor-vehicle radiator. No. 57,784; May 3; v. 286; p. 155.
Paine, George H., Rockville Center, N. Y. Confectionery or chewing-gum unit. No. 58,042; May 31; v. 286; p. 1016.
Pall'iser, Leonard, assignor to himself and F. Teltsch, New York, N. Y. Bracelet. No. 57,991; May 24; v. 286; p. 802.
Palm Craft Company, The. (See Smith, James, assignor.)
Papoll, Walter, assignor to Simmons Company, Kenosha, Wis. Bedstead end. No. 57,927; May 17; v. 286; p. 586.
Parkford, Edwin A., *et al.* (See Williams, Ardie, assignor.)
Pascucci, Emilio. (See Manuel, W. N., and Pascucci.)
Payne, Charles H., Cincinnati, Ohio. Key-ring. No. 57,928; May 17; v. 286; p. 587.
Peninsular Stamping Company. (See Naumann, Hermann C., assignor.)
Pfeffer, Genevieve, San Jose, Calif. Apron. No. 57,992; May 24; v. 286; p. 803.
Pflueger, Charles T., assignor to The Enterprise Manufacturing Co., Akron, Ohio. Surface ornamentation for the body of an artificial-minnow bait. No. 57,858; May 10; v. 286; p. 377.
Pick, Albert & Company. (See Sehlbach, Albert E., assignor.)
Piqua Handle & Manufacturing Company, The. (See Upton, Clifford D., assignor.)
Plougmann, Niels P., Laurel, Nebr. Staple. No. 58,043; May 31; v. 286; p. 1016.
Poe, Ralph W., Canton, Ill. Lamp. No. 58,044; May 31; v. 286; p. 1016.
Pond, Annie M., assignor to Order of the Eastern Star, State of New York, New York, N. Y. Emblem or badge. No. 58,045; May 31; v. 286; p. 1016.
Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Coffee-urn. No. 57,859; May 10; v. 286; p. 377.
Poritz, Frederick M., New York, N. Y., assignor to Star Chandelier Co., Inc. Chandelier. Nos. 57,785–6; May 3; v. 286; pp. 155–6.
Poritz, Frederick M., New York, N. Y., assignor to Star Chandelier Co., Inc. Bracket for lighting means. Nos. 57,787–8; May 3; v. 286; p. 156.
Poritz, Frederick M., New York, N. Y., assignor to Star Chandelier Co., Inc. Pendant for lighting means. No. 57,789; May 3; v. 286; p. 156.
Porter, Edwin S., New York, N. Y. Film-reel. No. 57,860; May 10; v. 286; p. 377.
Price, William I. (See Spaniak, Adam, assignor.)
Pulsifer, George H., Haverhill, Mass. Shoe ornament. No. 57,929; May 17; v. 286; p. 587.
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Steel Company, Wilmington, Del. Wheel. No. 57,861; May 10; v. 286; p. 377.
Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Plural lamp-socket. No. 57,930; May 17; v. 286; p. 587.
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Roberts, Henry P., Boston, assignor to J. I. Taylor, Dedham, Mass. Potato masher and ricer. No. 57,862; May 10; v. 286; p. 378.
Rogers, E. Irving, Jr., Providence, R. I. Collar-holder. No. 57,863; May 10; v. 286; p. 378.
Rosenburg & Co. (See Hollins, W. C., and Arrousez, assignors.)
Rozowsky, Alfred, New York, N. Y. Candy-package. No. 57,834; May 10; v. 286; p. 378.
Ryman, Lewis M. (See Baribault, Lucien J., assignor.)
Sala, Stanislaw and K. Dabrowski, Hamtramck, Mich. Polycycle. No. 57,993; May 24; v. 286; p. 803.
Samuel, Ralph E., New York, N. Y. Playing-card. No. 57,994; May 24; v. 286; p. 803.
Saul, Tom W., Seattle, Wash. Hairpin. No. 57,995; May 24; v. 286; p. 803.
Schalow, Frank J., East New York, N. Y. Crease-retaining device for hats. No. 57,996; May 24; v. 286; p. 803.
Scharwath, John A., Elizabeth, assignor of one-half to C. R. Burkhardt, Teaneck, N. J. Roofing-shingle. Nos. 57,865–6; May 10; v. 286; p. 378.
Schram Glass Manufacturing Co. (See Drey, L. A., and Hiatt, assignors.)
Schuler, Albert W. J., East Concord, N. Y. Phonograph-cabinet. No. 57,931; May 17; v. 286; p. 587.
Schwenck, Frederick W., Cincinnati, Ohio, assignor to J. Grossman's Sons, New Orleans, La. Bottle. No. 57,867; May 10; v. 286; p. 379.
Scott, Creston W., assignor to Goodell-Pratt Company, Greenfield, Mass. Inside micrometer. No. 57,932; May 17; v. 286; p. 587.
Sebring Pottery Company, The. (See Morley, Samuel L., assignor.)
Second National Bank of Baltimore, trustee. (See Black, S. D., and Decker, assignors.)
Sehlbach, Albert E., assignor to Albert Pick & Company, Chicago, Ill. Goblet or similar article of glassware. No. 57,933; May 17; v. 286; p. 587.
Shafer, Van A., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Shapiro & Aronson. (See Klein, Max, assignor.)
Shire, Harry L., Detroit, Mich. Electrical measuring instrument. No. 57,934; May 17; v. 286; p. 587.
Shively, Frank J., Canton, Ohio. Knife-handle. No. 57,935; May 17; v. 286; p. 588.
Simmons Company. (See Papoll, Walter, assignor.)
Sloane, Max, Brooklyn, N. Y. Handbag-frame. No. 57,868; May 10; v. 286; p. 379.
Smith, Charles F., assignor to Maxim Manufacturing Company, Chicago, Ill. Vegetable-peeling disk. No. 58,046; May 31; v. 286; p. 1016.
Smith, De Wane B., Utica, N. Y. Automobile-body. No. 57,936; May 17; v. 286; p. 588.
Smith, F. Haskell, Bloomfield, N. J. Tire or similar article. No. 57,937; May 17; v. 286; p. 588.
Smith, Fred H., Bloomfield, N. J. Tire. No. 57,790; May 3; v. 286; p. 156.
Smith, James, assignor to The Palm Craft Company, Tampa, Fla. Lamp. Nos. 57,938–40; May 17; v. 286; p. 588.
Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass vessel. No. 57,997; May 24; v. 286; p. 803.
Smith, Theodore C., Philadelphia, Pa. Self-illuminating pendant. No. 58,047; May 31; v. 286; p. 1017.
Smith, W. D., Silver Company. (See Burgeois, R. J., and Illig, assignors.)
Smithey, Marvin, Lawrenceville, Va. Face-plate for meters or similar measuring instruments. No. 57,941; May 17; v. 286; p. 588.
Snead & Company. (See Macdonald, Angus S., assignor.)
Spaniak, Adam, assignor of one-half to W. I. Price, Baltimore, Md. Electric-bulb holder. No. 57,942; May 17; v. 286; p. 589.
Spence, Arthur, Cleveland, Mich. Coal-bin. No. 57,869; May 10; v. 286; p. 379.
Stahl, Rodolph, Detroit, Mich. Radiator. No. 57,998; May 24; v. 286; p. 804.
Stanwood Equipment Company. (See Stanwood, Frank H., assignor.)
Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Automobile step-plate. Nos. 57,791–2; May 3; v. 286; pp. 156–7.

Star Chandelier Co. (See Poritz, Frederick M., assignor.)
Stenger, Ezra G., *et al.*, trustees. (See Howard, John H., assignor.)
Sterling Tire Corporation. (See Basten, Otto, assignor.)
Stewart-Warner Speedometer Corporation. (See Whittington, Frederick G., assignor.)
Stokes, Robert J., assignor to Thermoid Rubber Company, Trenton, N. J. Vehicle-tire. No. 57,870; May 10; v. 286; p. 379.
Stoney, William A., assignor to James Heddon's Sons, Dowagiac, Mich. Artificial bait. No. 57,871; May 10; v. 286; p. 379.
Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Ceiling-plate for a lighting-fixture. No. 57,943; May 17; v. 286; p. 589.
Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Canopy for lighting-fixtures. No. 57,944; May 17; v. 286; p. 589.
Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Socket-cover for lighting-fixtures. Nos. 57,945–6; May 17; v. 286; p. 589.
Strauss, Ernest H., Chicago, Ill. Lamp-shade. No. 57,793; May 3; v. 286; p. 157.
Streich, Edward C., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Streich, M. C., *et al.*, trustees. (See Mullvain, Earnest E., assignor.)
Sutton, Elisabeth, Paterson, N. J. Game-board. No. 57,947; May 17; v. 286; p. 589.
Svendsen, Ole M., assignor to Federal Tin Company, Incorporatrd, Baltimore, Md. Sifter-top can or similar receptacle. No. 58,048; May 31; v. 286; p. 1017.
Switzer, Maurice, assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 57,872; May 10; v. 286; p. 379.
Switzer, Maurice, assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 57,948; May 17; v. 286; p. 590.
Taylor, John I. (See Roberts, Henry P., assignor.)
Teeple, Edgar B., Minneapolis, Minn. Frame for a boring machine. No. 57,999; May 24; v. 286; p. 804.
Teltsch, Frank, *et al.* (See Palliser, Leonard, assignor.)
Tew, James D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 57,873; May 10; v. 286; p. 380.
Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
Theroz Company The. (See Popper, Isaac C., assignor.)
Thompson, Charles H., assignor to Thornhill Wagon Company, Lynchburg, Va. Axle-lubricating sleeve. No. 58,049; May 31; v. 286; p. 1017.
Thompson, Elmer B., Des Moines, assignor to Automotive Radiator Machine Company, Fort Dodge, Iowa. Automobile-radiator-repairing-machine frame. No. 57,794; May 3; v. 286; p. 157.
Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. Nos. 57,795–7; May 3; v. 286; p. 157.
Thornhill Wagon Company. (See Thompson, Charles H., assignor.)
Till, Henry, Pittsburg, Calif. Can-opener. No. 57,798; May 3; v. 286; p. 157.
Tin Decorating Company of Baltimore. (See Connor, Martha H., assignor.)
Todd, Edward, Jr., New York, N. Y. Surface ornamentation for a pen, pencil, penknife, or similar article. No. 58,000; May 24; v. 286; p. 804.
Todd, Edward, Jr., New York, N. Y. Surface ornamentation for a pen, pencil, penknife, or similar article. No. 58,001; May 24; v. 286; p. 804.
Tomecek, Martin. (See Martinka, John K. and E. K., assignors.)
Tomlinson, Edwin L., North Branch, Mich. Mud-guard. No. 57,799; May 3; v. 286; p. 158.
Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. Nos. 57,949–52; May 17; v. 286; p. 590.
Trimboli, Tony, Uhrichsville, Ohio. Rubber heel. No. 57,874; May 10; v. 286; p. 380.
Trogner, Roland S., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Tire. No. 57,953; May 17; v. 286; p. 590.
Tschantz, Elmer J., Canton, Ohio. Baking-iron. No. 58,050; May 31; v. 286; p. 1017.
Tunison, Murray C., Oakland, Calif. Automobile-body. No. 57,800; May 3; v. 286; p. 158.
Tuscan Tire & Rubber Company, The. (See McKone, Charles W., assignor.)
Tweedie Footwear Corporation. (See Tweedie, John, assignor.)
Tweedie, John, St. Louis, assignor to Tweedie Footwear Corporation, Jefferson City, Mo. Infant's footwear. No. 58,051; May 31; v. 286; p. 1017.
Ubelmann, Mirellie, Paris, France. Beauty-cream casket. No. 57,954; May 17; v. 286; p. 591.
Upton, Clifford D., assignor to The Piqua Handle & Manufacturing Company, Piqua, Ohio. Color-mixer. No. 57,955; May 17; v. 286; p. 591.
Vance, Mitchell Co. (See Strahan, G. V., and Mathieu, assignors.)
Virden, John C., Cleveland, Ohio. Chain-loop. No. 58,002; May 24; v. 286; p. 804.
Voight, Henry G., New Haven, Conn. Tire-carrier. No. 57,801; May 3; v. 286; p. 158.
Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case-bow. No. 57,875; May 10; v. 286; p. 380.
Wadsworth Watch Case Company, The. (See Wadsworth, Arthur W., assignor.)
Walker, Ernest A., assignor to Artcraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 57,956; May 17; v. 286; p. 591.
Walker, Ernest A., assignor to Artcraft Fixture Company, Newark, N. J. Arm for lighting-fixtures. No. 57,957; May 17; v. 286; p. 591.
Walker, Frederick W., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Bezel or similar device. No. 57,876; May 10; v. 286; p. 380.
Wanner, Albert, Jr., New York, N. Y. Chair. No. 57,877; May 10; v. 286; p. 380.
Warde, James A., Chicago, Ill. Bank. No. 57,958; May 17; v. 286; p. 591.
Warner, Jesse J., Canton, Ohio. Phonograph-cabinet. No. 57,959; May 17; v. 286; p. 591.
Waters, Reginald H., Akron, Ohio, assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 57,878; May 10; v. 286; p. 380.
Watkins, J. R., Company, The. (See Campbell, Edward L., assignor.)
Wellman, Lester R., assignor to Friedly-Voshardt Co., Chicago, Ill. Two-light shower-plate. No. 57,802; May 3; v. 286; p. 158.
Wellman, Lester R., assignor to Friedly-Voshardt Co., Chicago, Ill. Plate for lighting-fixtures. No. 57,803; May 3; v. 286; p. 158.
Wellman, Lester R., Chicago, Ill. Bowl-hook for lighting-fixtures. No. 58,003; May 24; v. 286; p. 804.
West, George R., Pittsburgh, Pa., assignor to The Diamond Match Company, Chicago, Ill. Combination match and ash tray. No. 58,052; May 31; v. 286; p. 1017.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 58,005; May 24; v. 286; p. 805.
Willenborg, Carl J., Jr., Hoboken, N. J. Talking-machine box. No. 58,004; May 24; v. 286; p. 805.
Williams, Ardie, assignor of one-half to E. A. Parkford and H. Boyer, Los Angeles, Calif. Wind-deflector. No. 57,804; May 3; v. 286; p. 158.
Williams, Orr H., Columbus, Ohio. Automobile-tire. No. 57,879; May 10; v. 286; p. 381.
Wilson & Bennett Mfg. Co. (See Wilson, James H., assignor.)
Wilson, James H., assignor to Wilson & Bennett Mfg. Co., Chicago, Ill. Pail. No. 58,053; May 31; v. 286; p. 1018.
Wittstein, Charles T., Newark, N. J. Portable electric-light support. No. 58,006; May 24; v. 286; p. 805.
Wolcik, Stanley, Orenco, Oreg. Toy. No. 58,054; May 31; v. 286; p. 1018.
Wolfe, John G., Chicago, Ill. Automobile-tire. No. 57,880; May 10; v. 286; p. 381.
Wolkow, I. Leo., Louisville, Ky. Radiator-cap. No. 57,805; May 3; v. 286; p. 158.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott, C. W., & Co., Inc., Baltimore, Md. Aromatic bitters. No. 141,822; May 3; v. 286; p. 181.
Abbott, Welcome A., Lamont, Iowa. Medicinal preparation for treatment of rheumatism and neuritis. No. 142,909; May 24; v. 286; p. 843.
Abele, Joseph B., Philadelphia, Pa. Game consisting of a perforated game board with movable plugs therein. No. 142,400; May 17; v. 286; p. 623.
Ablitzer, Alfred G., Brooklyn, N. Y. Cartoons. No. 142,226; May 10; v. 286; p. 403.
Ablitzer, Alfred G., Brooklyn, N. Y. Cartoons. No. 142,910; May 24; v. 286; p. 843.
Acetylene Service Company, The, Denver, Colo. Lighting and heating product of the acetylene variety. No. 141,823; May 3; v. 286; p. 181.
Achilles Rubber and Tire Company, Inc., The, Binghamton, N. Y. Tire casings and tubes of rubber. No. 141,824; May 3; v. 286; p. 181.
Acme Merchandise Corporation, New York, N. Y. Umbrellas. No. 142,402; May 17; v. 286; p. 623.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 142,401; May 17; v. 286; p. 623.
Acron Polish Company, St. Paul, Minn. Polish and preservative for automobiles, furniture, and varnished surfaces. No. 142,403; May 17; v. 286; p. 623.
Adams, Glenn, Cincinnati, Ohio. Antiseptic powders. No. 142,911; May 24; v. 286; p. 843.
Adams & Kay, New York, N. Y. Men's and women's underwear of knitted fabrics. No. 142,404; May 17; v. 286; p. 623.

Adams & Mitchell, Oakland, Calif. Preserves comprising rose-petals, sugar, and lemon. No. 141,825; May 3; v. 286; p. 181.

Adams & Westlake Company, The, Chicago, Ill. Baggage-racks. No. 142,405; May 17; v. 286; p. 623.

Adapti Company, Cleveland, Ohio. Certain named electrical appliances. No. 141,826; May 3; v. 286; p. 181.

Adhesive gum and cement and glue. E. E. Galle. No. 142,541; May 17; v. 286; p. 627.

Adreon, Robert E., St. Louis, Mo. Automobile-lock. No. 142,406; May 17; v. 286; p. 623.

Advanced Products Corporation, Philadelphia, Pa. Oil-cups. No. 142,227; May 10; v. 286; p. 403.

Agasote Millboard Co., The, Trenton, N. J. Fiber-boards sold in sheets. No. 143,272; May 31; v. 286; p. 1047.

Ajax Metal Company, The, Philadelphia, Pa. Ingots of red and yellow brass. No. 143,232; May 24; v. 286; p. 853.

Aktiebolaget Förenade Svenska Tändsticksfabriker, Stockholm, Sweden, assignor to Jonkopings & Vulcans Tändsticksfabriks Aktiebolag, Jonkoping, Sweden. Matches. No. 142,407; May 17; v. 286; p. 623.

Aktiengesellschaft Johannes-Jeserich, Charlottenburg, Germany. Asphalt, roof-felting, &c. No. 141,827; May 3; v. 286; p. 181.

Alamoro Marble Company, The, Alamogordo, N. Mex., and Chicago, Ill. Marble blocks prepared for building purposes. No. 142,913; May 24; v. 268; p. 843.

Alaska Refrigerator Company, The, Muskegon, Mich. Refrigerators. No. 142,408; May 17; v. 286; p. 623.

Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet-paper. No. 142,409; May 17; v. 286; p. 623.

Alcohol Products Company, Newark, N. J. Diacetone alcohol. No. 141,828; May 3; v. 286; p. 181.

Alko Products Company, The, Oklahoma, Okla. Antiseptic mouth-wash. No. 142,914; May 24; v. 286; p. 843.

Allen Corporation, The, New York, N. Y. Hand fire-extinguishers. No. 142,851; May 17; v. 286; p. 637.

Allen Cutlery Company, Newburgh, N. Y. Penknives, butcher, table, and kitchen knives. No. 141,831; May 3; v. 286; p. 181.

Allen, S. L., & Co. inc., Philadelphia, Pa. Tractors and motor drawn and driven tilling implements and parts thereof. No. 141,830; May 3; v. 286; p. 181.

Alpha-Lux Company, Inc., New York, N. Y. Artificial alkalized hydrated ferric oxid. No. 143,273; May 31; v. 286; p. 1047.

Alseth, Stengrim, Osakis, Minn. Carousel. No. 142,485; May 17; v. 286; p. 625.

Altman, B., & Co., New York, N. Y. Toilet water, toilet powder, almond-meal, &c. No. 141,832; May 3; v. 286; p. 181.

Aluminium-Walzwerke A.-G., Schaffhausen, Switzerland. Lamp-shades made of aluminum. No. 141,833; May 3; v. 286; p. 181.

Amboy Products Co., Chicago, Ill. Laundry and toilet soap, soap chips, &c. No. 143,274; May 31; v. 286; p. 1047.

Amendt Milling Company, Monroe, Mich. Wheat-flour. No. 142,915; May 24; v. 286; p. 843.

American Art Needle Company, Dallas, Tex. Needles for hand-embroidery and similar work. No. 143,275; May 31; v. 286; p. 1047.

American Baby Shoe Co., Haverhill, Mass. Infants' shoes made in whole or in part of leather. No. 142,228; May 10; v. 286; p. 403.

American Boron Products Company, Inc., Reading, Pa. Ferrous and non-ferrous alloys. Nos. 142,852–3; May 17; v. 286; p. 637.

American Cotton Oil Company, The, Union township, Hudson county, N. J., and New York, N. Y. Edible vegetable oil. No. 141,834; May 3; v. 286; p. 181.

American Distilling Co., The, Pekin and Chicago, Ill. Ethyl alcohol. No. 141,835; May 3; v. 286; p. 181.

American Factors, Limited, Honolulu, Hawaii, and San Francisco, Calif. Foods. No. 142,410; May 17; v. 286; p. 623.

American Federation of Labor, Washington, D. C. Magazine published monthly. No. 142,229; May 10; v. 286; p. 403.

American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Wheat-flour. No. 142,916; May 24; v. 286; p. 843.

American Javanese Products Co., Chicago, Ill. Tea. No. 142,917; May 24; v. 286; p. 843.

American Laboratories Incorporated, Richmond, Va. Antiseptic, disinfectant, deodorant, &c. No. 141,836; May 3; v. 286; p. 181.

American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 141,837; May 3; v. 286; p. 181.

American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 143,233; May 24; v. 286; p. 855.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. Nos. 142,411–16; May 17; v. 286; p. 623.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. No. 143,234; May 24; v. 286; p. 855.

American Molasses Company of New York, The, New York, N. Y. Molasses and syrups made from sugar-cane and corn. Nos. 142,417–20; May 17; v. 286; p. 623.

American Motor Truck Company, The, Newark, Ohio. Self-propelled vehicles—namely, motor-trucks. No. 141,838; May 3; v. 286; p. 181.

American Novelty Co., Lebanon, Pa. Coasters. No. 141,839; May 3; v. 286; p. 181.

American Optical Company, Southbridge, Mass. Eyeglasses and spectacles and parts thereof. No. 141,840; May 3; v. 286; p. 181.

American Optical Company, Southbridge, Mass. Optical and ophthalmic appliances. No. 142,421; May 17; v. 286; p. 623.

American Pop Corn Company, Sioux City, Iowa. Chewing-gum-dispensing machines. No. 141,841; May 3; v. 286; p. 181.

American Refining Company, Boston, Mass. Soluble cutting-oil. No. 141,842; May 3; v. 286; p. 181.

American Refining Company, Boston, Mass. Oils and greases. No. 142,230; May 10; v. 286; p. 403.

American Safetesoap Corporation, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y. Shaving-brushes. No. 142,422; May 17; v. 286; p. 623.

American Sheet and Tin Plate Company, Pittsburgh, Pa. Iron and steel sheets and plates and tin and terne plates. Nos. 142,854–5; May 17; v. 286; p. 637.

American Steel Foundries, Jersey City, N. J., and Chicago, Ill. Wheels, chassis, chassis forgings, and castings. No. 143,235; May 24; v. 286; p. 855.

American Steel and Wire Company of New Jersey, The, Hoboken, N. J. Plain and galvanized woven-wire concrete-reinforcement. No. 141,843; May 3; v. 286; p. 181.

American Tobacco Company, The, New York, N. Y. Cigarettes. No. 142,423; May 17; v. 286; p. 623.

American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. Nos. 142,424–8; May 17; v. 286; pp. 623–4.

American Tool & Machine Co., Boston, Mass. Machinery and parts thereof. No. 142,429; May 17; v. 286; p. 624.

American Trading Company, New York, N. Y. Yarns. No. 143,276; May 31; v. 286; p. 1047.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Clothing. No. 142,186; May 3; v. 286; p. 193.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Jewelry, hollow and flat ware, &c. No. 142,187; May 3; v. 286; p. 193.

Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. Nos. 142,211–13; May 3; v. 286; p. 195.

Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 142,856; May 17; v. 286; p. 637.

Andersen, A. O., & Co., San Francisco, Calif. Canned fruits. No. 141,844; May 3; v. 286 p. 181.

Anderson & Barry, Philadelphia, Pa. Women's corsets and girdles. No. 142,430; May 17; v. 286; p. 624.

Androscoggin Mills, Lewiston, Me. Grain-bags. No. 142,431; May 17; v. 286; p. 624.

Antrim, C. W., & Sons, Richmond, Va. Coffee and tea. No. 142,921; May 24; v. 286; p. 843.

Archer, Charles W., Gary, Ind. Preparation for treatment of pyorrhea. No. 141,845; May 3; v. 286; p. 181.

Archibald, Nevin A., Concord, N. C. Toy coaster-wagons. No. 143,320; May 31; v. 286; p. 1048.

Ardath Tobacco Company, Limited, London, England. Smoking-tobacco. No. 142,432; May 17; v. 286; p. 624.

Ardath Tobacco Company, Limited, London, England. Cigarettes manufactured from Turkish tobacco. No. 142,433; May 17; v. 286; p. 624.

Arden-Bennett Corporation, New York, N. Y. Foot-propelled land-vehicles for use by children. No. 142,434; May 17; v. 286; p. 624.

Armco Culvert & Flume Manufacturers' Association, Middletown, Ohio. Monthly periodical. No. 142,918; May 24; v. 286; p. 843.

Armstrong Company, The, Detroit, Mich. Cement. No. 142,919; May 24; v. 286; p. 843.

Armstrong Packing Company, Dallas, Tex. Meat food product. No. 141,848; May 3; v. 286; p. 182.

Armstrong, Sagar & Co., Manchester, England. Cotton piece goods. No. 141,849; May 3; v. 286; p. 182.

Arnold, Henry J., Sterling, Kans. Ninety-five per cent. (95%) wheat-flour. No. 141,846; May 3; v. 286; p. 181.

Ashwell & Nesbit, Ltd. Barkby Lane, Leicester, England. Hydraulic pumps and parts thereof. No. 141,847; May 3; v. 286; p. 182.

Associated Equipment Company, Limited, The, Westminster, London, England. Motor-vehicles. No. 143,277; May 31; v. 286; p. 1047.

Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Boys' knickerbocker suits. No. 143,279; May 31; v. 286; p. 1047.

Associated Oil Company, San Francisco, Calif. Lubricants, consisting of oils and greases. No. 143,278; May 31; v. 286; p. 1047.

Atkins, E. C., & Company, Indianapolis, Ind. Unmounted abrasive wheels formed of artificial abrasive material. No. 142,435; May 17; v. 286; p. 624.

Atkinson Mill & Manufacturing Company, Oakland, Calif. Velocipedes. No. 141,850; May 3; v. 286; p. 182.

Aubert, L., & Cia., Buenos Aires, Argentina. Toilet articles. No. 142,355; May 10; v. 286; p. 407.

Auerbach, D., & Sons, New York, N. Y. Candy. No. 141,851; May 3; v. 286; p. 182.

Auerbach, D., Sons, New York, N. Y. Chocolates. No. 143,280; May 31; v. 286; p. 1047.

Aurora Medicine Company, Bullard, Tex. Medicinal compound for appendicitis and other ailments of the digestive organs. No. 142,920; May 24; v. 286; p. 843.

Automatic Illuminated Advertising Corporation, New York, N. Y. Electrically-operated stereoptican-slide projectors and parts thereof. No. 142,922; May 24; v. 286; p. 843.

Avalon Farms Company, The, Chicago, Ill. Bone-builder and conditioner for hogs. No. 142,923; May 24; v. 286; p. 843.

Averell, A. J., Riverside, Calif. Variety of fertilizer. No. 142,437; May 17; v. 286; p. 624.

Avery, B. F., & Sons, Louisville, Ky. Agricultural implements. No. 141,852; May 3; v. 286; p. 182.

Avery, B. F., & Sons, Louisville, Ky. Non-metallic ropes, fiber cords, and twines. No. 142,438; May 17; v. 286; p. 624.

Avila, Antonio P., Lowell, Mass. Preparation used as a hair-tonic. No. 142,924; May 24; v. 286; p. 843.

Ayotte, Joseph R., Chicago, Ill. Spark-plugs. No. 141,853; May 3; v. 286; p. 182.

Ayres, Charles S., Riverton, N. J. Indicators for liquid-dispensing pumps. No. 142,925; May 24; v. 286; p. 843.

Baach, J., Co., Chicago, Ill. Women's one-piece underwear. No. 143,281; May 31; v. 286; p. 1047.

Baggot, Harry A., New York, N. Y. Adhesive cements. No. 142,439; May 17; v. 286; p. 624.

Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 142,926; May 24; v. 286; p. 843.

Baker, Louis H., Evansville, Ind. Men's jackets, one-piece outer suits, overalls. No. 142,440; May 17; v. 286; p. 624.

Baker Shoe Co., Inc., Haverhill, Mass. Ladies' house-slippers of leather. No. 142,441; May 17; v. 286; p. 624.

Baldwin, Estella, Huntington, N. Y. Liniment used in the treatment of sprains, bruises, &c. No. 142,927; May 24; v. 286; p. 843.

Baldwin, Thomas R., Chicago, Ill. Game apparatus. No. 142,442; May 17; v. 286; p. 624.

Balfour, Arthur, & Company Limited, Sheffield, England. Cast, tool, magnet, &c., steel. No. 141,854; May 3; v. 286; p. 182.

Ballew, Elmer L., Chicago, Ill. Doughnuts, pastry goods, and sandwiches. No. 141,855; May 3; v. 286; p. 182.

Bally Company, Inc., Wilmington, Del., and New York, N. Y. Boots, shoes, slippers, and shoe-findings. No. 142,231; May 10; v. 286; p. 403.

Bally Company, Inc., Wilmington, Del., and New York, N. Y. Boots, shoes, slippers, gaiters, &c. No. 142,232; May 10; v. 286; p. 403.

Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 142,857; May 17; v. 286; p. 637.

Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 143,282; May 31; v. 286; p. 1047.

Bancroft, Edwin, Oklahoma, Okla. Construction materials. No. 141,856; May 3; v. 286; p. 182.

Bankers Protective Appliance Corporation, New York, N. Y. Reinforced glass. No. 142,928; May 24; v. 286; p. 843.

Barbour Flax Spinning Company, Paterson, N. J. Linen thread. No. 142,443; May 17; v. 286; p. 624.

Barbour, J. E., Company, Paterson, N. J. Threads and yarns. Nos. 142,233–4; May 10; v. 286; p. 403.

Barco Manufacturing Company, Chicago, Ill. Cross-heads, crosshead-shoes for fluid-operated engines, and reversing-gear mechanism. No. 142,444; May 17; v. 286; p. 624.

Bardos, Coleman, Jr., New York, N. Y. Medicinal preparation. No. 142,235; May 10; v. 286; p. 403.

Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Household disinfectant. No. 142,356; May 10; v. 286; p. 407.

Barlow-Kimnet Co., The, New York, N. Y. Store-fixtures. No. 141,857; May 3; v. 286; p. 182.

Barnes, Douglass, Corporation, New York, N. Y. Coal and coke. No. 142,445; May 17; v. 286; p. 624.

Barrett Company, The, New York, N. Y. Bituminous paint. No. 141,858; May 3; v. 286; p. 182.

Barrett, Denton & Lynn Co., Dalton, Ga. Stock feed. No. 141,859; May 3; v. 286; p. 182.

Barrett, George D., Cleveland, Ohio. Cartoons, pictures, drawings. No. 142,929; May 24; v. 286; p. 843.

Bartels Brewing Company, The, Edwardsville borough, Pa. Beers, near beers, porter, stout, and ales. Nos. 141,860–3; May 3; v. 286; p. 182.

Barth, Charles F., Inc., Spokane, Wash. Cigars. No. 142,446; May 17; v. 286; p. 624.

Bartholomew, Kate L., Portland, Oreg. Caps for children and for carnival purposes. No. 142,930; May 24; v. 286; p. 843.

Bartlett-Collins Glass Co., Sapulpa, Okla. Baking-glassware. No. 143,283; May 31; v. 286; p. 1047.

Basle Company, Boston, Mass. Leather-dressing. No. 141,864; May 3; v. 286; p. 182.

Bateson, Mildred, Olympia, Wash. Cleaning fluid, which preparation is a stain-remover of a chemical nature. No. 142,236; May 10; v. 286; p. 403.

Baumann, Alfred, Cassel, Germany. Measuring and scientific appliances. No. 142,447; May 17; v. 286; p. 624.

Bausch & Lomb Optical Co., Rochester, N. Y. Ophthalmic lenses. No. 142,448; May 17; v. 286; p. 624.

Bay City Milling Company, Bay City, Mich. Wheat-flour and cornmeal. No. 143,284; May 31; v. 286; p. 1047.

Beaty, Fred M., Liberal, Kans. Tooth powder and paste. No. 141,865; May 3; v. 286; p. 182.

Beaver Company, The, Buffalo, N. Y. Construction materials. No. 142,237; May 10; v. 286; p. 403.

Beaver Company, The, Buffalo, N. Y. Wall-board and building-paper. No. 142,931; May 24; v. 286; p. 843.

Beaver Falls Art Tile Co., Beaver Falls, Pa. Wall, floor, and ceiling tiles. No. 141,866; May 3; v. 286; p. 182.

Beck Van Sicklen & Co., Inc., San Francisco, Calif. Wheat-flour. No. 143,169; May 24; v. 286; p. 851.

Bee Bee Confection Company, Dayton, Ohio. Non-alcoholic, non-cereal beverages and syrups therefor. No. 143,285; Feb. 15; v. 286; p. 1047.

Belk, Aucy M., Mount Pleasant, Tenn. Dandruff preparation. No. 142,932; May 24; v. 286; p. 843.

Belmont Motors Corporation, Lewistown and Harrisburg, Pa. Automobiles and automobile-trucks. No. 142,357; May 10; v. 286; p. 407.

Beltrail Tractor Company, The, St. Paul, Minn. Farm-tractors. No. 142,858; May 17; v. 286; p. 637.

Bennett Milling Co., The, Grafton, Ohio. Wheat-flour. No. 142,238; May 10; v. 286; p. 403.

Berg Brothers, Inc., New York, N. Y. Woolen and worsted yarns. No. 142,933; May 24; v. 286; p. 843.

Berg, F., & Co., Orange, N. J. Hats for men. No. 142,449; May 17; v. 286; p. 624.

Berg, Hart O., New York, N. Y. Pharmaceutical preparation. No. 141,867; May 3; v. 286; p. 182.

Berger Manufacturing Company, The, Canton, Ohio. Rust-resisting anticorrosive iron and iron, steel, and alloy-steel metal sheets. No. 141,868; May 3; v. 286; p. 182.

Berger Manufacturing Company, The, Canton, Ohio. Metal filing-cases, lockers, and shelving. No. 142,450; May 17; v. 286; p. 624.

Berkefeld Filter Company, New York, N. Y. Filtering apparatus and filter-cylinders. No. 142,451; May 17; v. 286; p. 624.

Berkshire Shirt Co., New York, N. Y. Negligée shirts and pajamas. No. 142,239; May 10; v. 286; p. 403.

Bernhard Ulmann Co., Inc., New York, N. Y. Yarns and threads. No. 143,495; May 31; v. 286; p. 1054.

Best, Edward H., & Co., Incorporated, Portland, Me., and Boston, Mass. Woven felts of wool or mixtures of wool and cotton and piece goods. No. 141,869; May 3; v. 286; p. 182.

Best, Edward H., & Co., Incorporated, Portland, Me., and Boston, Mass. Woven felts and piece goods of wool or mixtures of wool and cotton. No. 143,286; May 31; v. 286; p. 1047.

Bianchini, Férier, Lyon, France. Piece goods of silk, wool, &c. No. 141,870; May 3; v. 286; p. 182.

Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. No. 142,538; May 17; v. 286; p. 627.

Bible Films, Inc., Los Angeles, Calif. Moving-picture films. No. 142,934; May 24; v. 286; p. 843.

Billin, Arthur J., & Co., Inc., New York, N. Y. Jellied rabbit. No. 143,287; May 31; v. 286; p. 1047.

Bird & Son, Inc., East Walpole, Mass. Felt-base floor-coverings and rug-borders. No. 143,288; May 31; v. 286; p. 1047.

Bird & Son Inc., East Walpole, Mass. Construction materials. No. 143,289; May 31; v. 286; p. 1047.

Bishop & Babcock Company, The, Cleveland, Ohio. Thermostats. No. 141,871; May 3; v. 286; p. 182.

Blackburn, Arthur D., Cuba, Ohio. Spraying compound. No. 142,240; May 10; v. 286; p. 403.

Blackman, Samuel, Philadelphia, Pa. Non-alcoholic, maltless beverages. No. 143,290; May 31; v. 286; p. 1047.

Blactus Candy Co., Inc., Pittsburgh, Pa. Candy. No. 142,935; May 24; v. 286; p. 843.

Blair, J. C., Company, Huntingdon, Pa. Paper for writing and printing purposes, envelops, tablets, and blank books. No. 142,452; May 17; v. 286; p. 624.

Bland, Frank G., Clarksburg, W. Va. Mouth-wash. No. 141,872; May 3; v. 286; p. 182.

Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 142,489; May 17; v. 286; p. 625.

Blaw-Knox Company, Pittsburgh, Pa. Metallic transmission-towers, steel forms, &c. Nos. 142,241–2; May 10; v. 286; p. 403.

Bliss Syrup Refining Co., Kansas City, Mo. Table-syrup composed of corn and cane-sugar. No. 142,453; May 17; v. 286; p. 624.

Blogg & Littauer, New York, N. Y. Cloaks, suits, and evening-wraps for women. No. 142,859; May 17; v. 286; p. 638.

Bloomenfield Trunk Co. Inc., The, New York, N. Y. Trunks. No. 142,454; May 17; v. 286; p. 624.

Blue Ribbon Candy Co., Baltimore, Md. Candy. No. 142,936; May 24; v. 286; p. 843.

Bluff City Shoe Company, The, Hannibal, Mo. Shoes of leather, rubber, &c. No. 142,937; May 24; v. 286; p. 844.

Blythe Tea Company, The, Cincinnati, Ohio. Teas and coffees. No. 141,873; May 3; v. 286; p. 182.

Bohme, Henry, & Sons, Inc., New York, N. Y. Leaf-tobacco. No. 142,563; May 17; v. 286; p. 628.

Boker, H., & Co. Inc., New York, N. Y. Saws. No. 141,874; May 3; v. 286; p. 182.
Borgfeld, George, & Co., New York, N. Y. Glossing compound for eyebrows, eyelashes, mustache, and beard. No. 143,358; May 31; v. 286; p. 1049.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Fabric gloves and mittens. Nos. 141,875–6; May 3; v. 286; p. 182.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. Nos. 142,939–44; May 24; v. 286; p. 844.
Booth Fisheries Sardine Company, Chicago, Ill. Canned sardines. No. 142,938; May 24; v. 286; p. 844.
Boston Music Co., The, Boston, Mass. Sheet-music. No. 143,291; May 31; v. 286; p. 1047.
Bowell, Russell J., Elyria, Ohio. Hot and cold water bags and bags for ice-packs. No. 142,455; May 17; v. 286; p. 624.
Bows Moccasin Company, Avon, Mass. Moccasins. No. 143,292; May 31; v. 286; p. 1047.
Boyce, Sidney S., Saginaw, Mich. Textile fibers. No. 143,321; May 31; v. 286; p. 1048.
Brach, Jacques, Paris, France. Perfumes, toilet waters and lotions, pomades, &c. No. 142,945; May 24; v. 286; p. 844.
Brandt Manufacturing Company, Watertown, Wis. Coin-paying machine. No. 141,877; May 3; v. 286; p. 182.
Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. Cereal breakfast food. Nos. 142,456–7; May 17; v. 286; p. 624.
Brecht Candy Company, The, Denver, Colo. Chocolate candies. No. 143,293; May 31; v. 286; p. 1047.
Briggs, William A., Philadelphia, Pa. Paint enamel. No. 142,946; May 24; v. 286; p. 844.
Brill, J. G., Company, The, Philadelphia, Pa. Street-cars. No. 142,358; May 10; v. 286; p. 407.
Brilliant Search Light Mfg. Co., Chicago, Ill. Detachable vehicle searchlights or spotlights. No. 142,188; May 3; v. 286; p. 193.
Brillo Manufacturing Company, New York, N. Y. Cleaning, scouring, and polishing wads, pads, rolls, and cloth of abradant nature. No. 142,947; May 24; v. 286; p. 844.
Briscoe Devices Company, assignor to Briscoe Devices Corporation, Pontiac, Mich. Carbureters. No. 141,878; May 3; v. 286; p. 182.
Briscoe Devices Corporation. (See Briscoe Devices Company, assignor.)
Bristol-Myers Company, Brooklyn, N. Y. Remedy for coughs and colds and a general tonic. No. 142,948; May 24; v. 286; p. 844.
Brody, Maurice, Roxbury and Boston, Mass. Medicinal tablets for stomach ails. No. 141,879; May 3; v. 286; p. 183.
Brooks, Claude H., Helena, Ark. Alterative. No. 142,949; May 24; v. 286; p. 844.
Broom & Newman, New York, N. Y. Men's and boys' dress, negligée, work, and night shirts, and pajamas. No. 142,458; May 17; v. 286; p. 625.
Brown Instrument Company, The, Philadelphia, Pa. Pyrometers. No. 143,236; May 24; v. 286; p. 855.
Browne, Nat B., Los Angeles, Calif. Letter-duplicating machine. No. 142,459; May 17; v. 286; p. 625.
Browne, Stewart R., Mfg. Co., Inc., New York, N. Y. Pump-valves. No. 142,148; May 3; v. 286; p. 191.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Billiard-cloth for billiard and other game-tables. No. 142,486; May 17; v. 286; p. 625.
Brunswick Knitting Co., New York, N. Y. Sweaters, sweater-coats, bathing suits, knitted caps and boots. No. 143,237; May 24; v. 286; p. 855.
Buchholz, Edwin A., Peoria, Ill. Medicinal and toilet preparations. No. 142,950; May 24; v. 286; p. 844.
Buchsbaum, Samuel, Chicago, Ill. Belt-buckles. No. 141,880; May 3; v. 286; p. 183.
Buell, Rex L., Elkhart, Ind. Phonograph-cabinets and parts thereof, case material. No. 142,460; May 17; v. 286; p. 625.
Buffington's Incorporated, Worcester, Mass. Complexion-cream. No. 141,881; May 3; v. 286; p. 183.
Buhr, Pfaff & Co., Cincinnati, Ohio. Candy. No. 142,243; May 10; v. 286; p. 403.
Burger Bros. Company, The, Cincinnati, Ohio. Hops. No. 142,957; May 24; v. 286; p. 844.
Burke, Frank G., New York, N. Y. Toilet soaps. No. 141,882; May 3; v. 286; p. 183.
Butler, Ben L., Fort Worth, Tex. Weekly publication. No. 142,244; May 10; v. 286; p. 403.
Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 142,189; May 3; v. 286; p. 193.
Butler, J. W., Paper Company, Chicago, Ill. Ledger-paper. Nos. 142,190–1; May 3; v. 286; p. 193.
Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. Nos. 142,192–3; May 3; v. 286; p. 193.
Butler, J. W., Paper Company, Chicago, Ill. Lithograph-paper. No. 142,194; May 3; v. 286; p. 193.
Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 142,195; May 3; v. 286; p. 193.
Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 142,860; May 17; v. 286; p. 638.
Butterick Publishing Company, New York, N. Y. Instruction sheets or charts for dressmakers' patterns. No. 142,952; May 24; v. 286; p. 844.
Byrne, Joseph F., Omaha, Nebr. Underwear. No. 142,861; May 17; v. 286; p. 638.
Byrnes, Eugene, New York, N. Y. Series of cartoons. No. 142,461; May 17; v. 286; p. 625.
C. & E. Chapal Freres & Cie., Inc., Brooklyn, N. Y. Skins of animals used in the fur industry. Nos. 142,466–7; May 17; v. 286; p. 625.
Cable Company, The, Chicago, Ill. Pianos and player-pianos. No. 143,294; May 31; v. 286; p. 1047.
Cable-Nelson Piano Company, Chicago, Ill. Talking-machines and mechanical or player pianos. No. 143,295; May 31; v. 286; p. 1047.
Cailler, Peter, Kohler Swiss Chocolates Co., Inc., Fulton and New York, N. Y. Cocoa and chocolate. No. 143,260; May 24; v. 286; p. 858.
California Almond Growers Exchange, San Francisco, Calif. Almonds. No. 141,883; May 3; v. 286; p. 183.
California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 142,245; May 10; v. 286; p. 403.
California Honey Producers Cooperative Exchange, Los Angeles, Calif. Honey. No. 142,462; May 17; v. 286; p. 625.
California-Oregon Power Co., San Francisco, Calif. Monthly publication. No. 142,246; May 10; v. 286; p. 403.
Cambridge Scientific Instrument Company, Limited, The, Cambridge, England. Thermometers, pyrometers, draft and pressure gages, &c. No. 143,296; May 31; v. 286; p. 1047.
Campbell, Florence J., Los Angeles, Calif. Periodical publication published weekly. No. 141,884; May 3; v. 286; p. 183.
Cantan, Manuel, Key West, Fla. Varnish and paint remover. No. 142,463; May 17; v. 286; p. 625.
Capitol Brewery Co., Jefferson City, Mo. Non-alcoholic, non-cereal beverage in the nature of root-beer. No. 142,464; May 17; v. 286; p. 625.
Carbon Products Co., The, Lancaster, Ohio. Dry batteries. No. 142,247; May 10; v. 286; p. 403.
Cardwell & Waggoner, Yakima, Wash. Fresh fruits. No. 141,885; May 3; v. 286; p. 183.
Carey, Philip, Manufacturing Company, The, Lockwood, Ohio. Waterproof and fireproof fabrics, table-mats, asbestos cloth, and carpet-linings. No. 143,429; May 31; v. 286; p. 1051.
Carlisle, Bert, Santa Ana, Calif. Safety-razor-blade holders for honing and stropping the blades by hand. No. 142,953; May 24; v. 286; p. 844.
Carlisle, Bert, Santa Ana, Calif. Devices for mechanically sharpening scissors. No. 143,297; May 31; v. 286; p. 1047.
Caron, William J., Uxbridge, Mass. Medicinal preparation. No. 143,298; May 31; v. 286; p. 1047.
Carroll, Effie M., San Diego, Calif. Liquid preparation for the hair and scalp. No. 141,886; May 3; v. 286; p. 183.
Carson, Pirie, Scott & Co., Chicago, Ill. One-piece work-garments. No. 143,238; May 24; v. 286; p. 855.
Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Bleached and unbleached cotton flannels. No. 143,299; May 31; v. 286; p. 1047.
Case-Fischer Manufacturing Company, Parkersburg, W. Va. Articles of clothing. No. 142,248; May 10; v. 286; p. 403.
Casper Gripper Co., Cleveland, Ohio. Grippers for use on printing-presses. No. 143,300; May 31; v. 286; p. 1048.
Catalfamo, Nicola, Coney Island, N. Y. Shaving-cream. No. 142,490; May 17; v. 286; p. 625.
Caughey, Joseph D., New York, N. Y. Plasters and cement. No. 142,197; May 3; v. 286; p. 194.
Cawthorne Tubercular Treatment, Inc., Nashville, Tenn. Medicinal compound for the treatment of tuberculosis. No. 141,887; May 3; v. 286; p. 183.
Central Dyestuffs & Chemical Co., Newark, N. J. Dyestuffs and chemicals. No. 141,889; May 3; v. 286; p. 183.
Certain-Teed Products Corporation, St. Louis, Mo. Linoleum, oil-cloth, and floor-coverings. No. 142,954; May 24; v. 286; p. 844.
Chain Shirt Shops, Inc., New York, N. Y. Articles of clothing. No. 142,487; May 17; v. 286; p. 625.
Champion Amusement Company, The, Cincinnati, Ohio. Card game. No. 142,465; May 17; v. 286; p. 625.
Chapin-Sacks Corporation, Washington, D. C. Ice-cream. No. 142,862; May 17; v. 286; p. 638.
Chapman, Luther D., Wellesley, Mass. Fly and snelled-fishhook books. No. 142,675; May 17; v. 286; p. 631.
Chappins, John A., La Chaux-de-Fonds, Switzerland. Mechanical toys. No. 141,890; May 3; v. 286; p. 183.
Charleston Milling Company, Charleston, Mo. Self-rising wheat-flour. No. 142,488; May 17; v. 286; p. 625.
Chattanooga Plow Company, Chattanooga, Tenn., and Chicago, Ill. Furnaces, evaporators, and parts thereof. No. 143,301; May 31; v. 286; p. 1048.
Chemical Research Company of America, (now by change of name Korite Products, Inc.,) Boston, Mass. Leather-preservative. Nos. 142,468–9; May 17; v. 286; p. 625.
Chemische Fabrik vormals Sandoz, Basel, Switzerland. Pharmaceutical product comprising a remedy for gall-stones. Nos. 142,955–6; May 24; v. 286; p. 844.
Cherokee Spinning Co., Knoxville, Tenn. Yarns and threads. No. 142,957; May 24; v. 286; p. 844.

Chestnut Ridge Corporation, New York, N. Y. Coatings for crucibles and linings for furnaces. No. 142,470; May 17; v. 286; p. 625.
Chicago Belting Company, Chicago, Ill. Leather belting. Nos. 141,891–4; May 3; v. 286; p. 183.
Chicago White Lead and Oil Co., Chicago, Ill. Paints and painting materials. No. 143,302; May 31; v. 286; p. 1048.
China Palace Company, Inc., El Paso, Tex. Notions. No. 141,895; May 3; v. 286; p. 183.
Chinook Packing Co., Chinook, Wash. Canned fish. No. 142,471; May 17; v. 286; p. 625.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 142,958; May 24; v. 286; p. 844.
Christian Peper Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. Nos. 142,472–3; May 17; v. 286; p. 625.
Christopher, L. J., Co., Los Angeles, Calif. Rough chocolates with centers. No. 142,959; May 24; v. 286; p. 844.
Chupka, Miklos, Johnstown, Pa. Soil food. No. 141,896; May 3; v. 286; p. 183.
Church & Dwight Company, New York, N. Y. Bicarbonate of soda, saleratus, and baking-powder. No. 142,960; May 24; v. 286; p. 844.
Cisneros & Co., Inc., New York, N. Y., and Rahway, N. J. Wheat-flour. No. 142,249 May 10; v. 286; p. 403.
Cisneros & Co., Inc., New York, N. Y., and Rahway, N. J. Wheat-flour. Nos. 142,961–4; May 24; v. 286; p. 844.
Citizens' Wholesale Supply Company, The, Columbus, Ohio. Shaving-cream in the form of soap paste. No. 143,303; May 31; v. 286; p. 1048.
Clack, H. Earl, Company, Havre, Mont. Motor-oils. No. 141,897; May 3; v. 286; p. 183.
Clark, A. L., & Co., Inc., New York, N. Y. Hand-needles. No. 141,899; May 3; v. 286; p. 183.
Clark, D. L., Company, The, Pittsburgh, Pa. Confection. No. 141,888; May 3; v. 286; p. 183.
Clark, Geo. B., Co., Inc., The, Bridgeport, Conn. Phonographs. No. 143,304; May 31; v. 286; p. 1048.
Clarke, Charles F., Madison, Wis. Feeding attachment for use with ordinary pens. No. 141,898; May 3; v. 286; p. 183.
Clayton Company, Inc., The, New York, N. Y. Automobile-bodies, carriages and wagons, &c. No. 143,305; May 31; v. 286; p. 1048.
Cleveland Waterproof Paper Company, The, Cleveland, Ohio. Moisture-proof, paraffin, and wax papers. No. 142,965; May 24; v. 286; p. 844.
Clode, Edward J., New York, N. Y. Printed books published in series. No. 143,306; May 31; v. 286; p. 1048.
Clower, Joseph B., Woodstock, Va. Remedy for corns. No. 142,966; May 24; v. 286; p. 844.
Coco Soap Company, The, Denver, Colo. Soap. No. 143,307; May 31; v. 286; p. 1048.
Cocoa Products Co., The, Holland, Mich. Prepared cocoa powder. No. 141,900; May 3; v. 286; p. 183.
Coe Mortimer Co., New York, N. Y. Fertilizers. No. 143,098; May 24; v. 286; p. 849.
Cohn, Goldwater Co., Los Angeles, Calif. Combination one-piece working-garment. No. 142,270; May 10; v. 286; p. 404.
Cohn, Israel M., La Grange, Ill. Mouth-washes. No. 142,967; May 24; v. 286; p. 844.
Cole Manufacturing Company, Memphis, Tenn. Sash, door, and window frames, newel-posts, &c. No. 141,901; May 3; v. 286; p. 183.
Coleman Lamp Company, The, Wichita, Kans. Lamps and lanterns, lighting plants and systems, urn-burners, and gas-generators. No. 142,359; May 10; v. 286; p. 407.
Colgate & Company, Jersey City, N. J. Soap powder for shaving. No. 142,360; May 10; v. 286; p. 407.
Colgate & Company, Jersey City, N. J. Preparation for cleaning, brightening, and polishing silver and other metals. No. 142,361; May 10; v. 286; p. 407.
Colonial Ice Cream Co., Philadelphia, Pa. Ice-cream. No. 142,474; May 17; v. 286; p. 625.
Colonial Works, Brooklyn, N. Y. Paints, varnishes, floor-wax, &c. No. 141,902; May 3; v. 886; p. 183.
Colonial Works, Brooklyn, N. Y. Paste paints. No 141,903; May 3; v. 286; p. 183.
Collins, Clarence E., St. Louis, Mo. Chemical compound introduced into boiler-water to prevent scales, &c. No. 141,904; May 3; v. 286; p. 183.
Columbian Rope Company, Auburn, N. Y. Plain-laid three or four strand rope made from Manila, sisal, &c. No. 142,475; May 17; v. 286; p. 625.
Confectionery Ingredients, Limited, London, England. Antipyretic remedy for human use. No. 142,968; May 24; v. 286; p. 845.
Consolidated Packing & Supply Co., New York, N. Y. Sheet-packing and gaskets made of vegetable fiber. No. 142,251; May 10; v. 286; p. 403.
Continental Paper Bag Co., New York, N. Y. Sacks or bags made of paper. No. 141,905; May 3; v. 286; p. 183.
Continental Serum Laboratories Co., Muscatine, Iowa. Worm medicine for swine. No. 142,970; May 24; v. 286; p. 845.
Continental Varnish Company, Inc., Brooklyn, N. Y. Paint enamel. No. 142,476; May 17; v. 286; p. 625.
Continental Varnish Company, Inc., Brooklyn, N. Y. Paint enamels and finishes. No. 142,477; May 17; v. 286; p. 625.
Continental Varnish Company, Inc., Brooklyn, N. Y. Varnishes and paint enamels. No. 142,478; May 17; v. 286; p. 625.
Continental Varnish Company, Inc., Brooklyn, N. Y. Varnish. No. 142,479; May 17; v. 286; p. 625.
Continental Varnish Company, Inc., Brooklyn, N. Y. Paint enamels and varnishes. No. 142,480; May 17; v. 286; p. 625.
Cooper, Daniel P., Groveton, Tex. Hair-tonic. No. 141,907; May 3; v. 286; p. 183.
Copymakers Corporation, The, Springfield, Mass. Photographic and stenciled signs. No. 142,969; May 24; v. 286; p. 845.
Corbin, B. A., & Son Co., Boston, Mass. Boots and shoes. No. 141,908; May 3; v. 286; p. 183.
Corn Belt Packing Company, Dubuque, Iowa. Lard. No. 142,481; May 17; v. 286; p. 625.
Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 142,482; May 17; v. 286; p. 625.
Corona Chemical Company, Milwaukee, Wis. General disinfectant. No. 141,909; May 3; v. 286; p. 183.
Cort, Henry Company, Brockton, Mass. Boots and shoes of leather or cloth and leather. No. 142,250; May 10; v. 286; p. 403.
Cotta Transmission Company, Rockford, Ill. Change-speed transmissions. No. 142,971; May 24; v. 286; p. 845.
Cotton Industrial Corporation, New York, N. Y., and Albany, Ga. Boll-weevil spray. No. 141,910; May 3; v. 286; p. 183.
Cresca Company, Inc., New York, N. Y. Sardines, olives, canned cherries. No. 142,196; May 3; v. 286; p. 194.
Crescent Company, Meriden, Conn. Glass-cutters, screw-drivers, screwdriver and expansion bits, &c. No. 141,911; May 3; v. 286; p. 183.
Crescent Garter Co., New York, N. Y. Garters. No. 143,308; May 31; v. 286; p. 1048.
Crescent Refractories Company, Curwensville, Pa. Fire-bricks and tile manufactured from fire-clay for metallurgical furnaces. Nos. 142,362–5; May 10; v. 286; pp. 407–8.
Crest Net Company, The. (See Norton, Walter F., assignor.)
Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 143,309; May 31; v. 286; p. 1048.
Crippen Record File Corporation, Rochester, N. Y. Cabinets for records for sound-reproducing machines. No. 142,483; May 17; v. 286; p. 625.
Crockett, Duke B., Jersey City, N. J. Waterproof enamel paint for wood and metal. No. 142,484; May 17; v. 286; p. 625.
Cronkhite Co., Inc., The, (now by change of name Cronkhite Chemical Corporation,) Boston, Mass. Receptacles. No. 141,912; May 3; v. 286; p. 184.
Crowe, Robert L., Memphis, Tenn. Germicide. No. 141,913; May 3; v. 286; p. 184.
Crowley Co., The, Spokane, Wash. Window and door frames. No. 143,322; May 31; v. 286; p. 1048.
Crown Confectionery Company, Jacksonville, Fla. Candy. No. 141,914; May 3; v. 286; p. 184.
Culmer, Thomas W., and Sons, London, England. Shaving-brushes. No. 142,972; May 24; v. 286; p. 845.
Culver, Edgar L., Washington, D. C. Manufactured fuel. No. 141,915; May 3; v. 286; p. 184.
Cureton, Edward, Stockton, Calif. Paste for massaging the gums. No. 141,916; May 3; v. 286; p. 184.
Cutex Corporation, assignor to Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 142,973; May 24; v. 286; p. 845.
Czechoslovak Bead Company, Inc., New York, N. Y. Pearls, precious, semiprecious, and synthetic stones used as jewelry. No. 143,310; May 31; v. 286; p. 1048.
Dafen, Chris, New York, N. Y. Milk products and derivatives thereof in solid or semisolid form in the nature of cheese. No. 142,491; May 17; v. 286; p. 626.
Daisy Manufacturing Co., Plymouth, Mich. Toy pop-guns and water-pistols. No. 142,492; May 17; v. 286; p. 626.
Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. No. 142,974; May 24; v. 286; p. 845.
Dalton Hosiery Mills, Dalton, Ga. Hosiery. No. 142,198; May 3; v. 286; p. 194.
Danbury Electric Manufacturing Co., The, Danbury, Conn. Electrical switches and devices of various types. No. 143,312; May 31; v. 286; p. 1048.
Danielson Tool Company, Wausau, Wis. Tools and machinery for garage use. No. 142,252; May 10; v. 286; p. 403.
Danville, Albert, Sacramento, Calif. Preparation for improving gasolene. No. 142,975; May 24; v. 286; p. 845.
D'Arcy, James, Rome, Ga. Preparation for the treatment of skin diseases. No. 142,976; May 24; v. 286; p. 845.
Daubenspeck Chain Company, Butler, Pa. Traction and antiskid chains. No. 141,917; May 3; v. 286; p. 184.
Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux for welding sheet-aluminum. No. 142,977; May 24; v. 286; p. 845.
Davis Car Company, Seattle, Wash. Automobiles. No. 142,253; May 10; v. 286; p. 403.
Davis, J., & Co., New York, N. Y. Ladies' frocks and costumes. No. 142,493; May 17; v. 286; p. 626.

Davis Mfg. Co., Minneapolis, Minn. Davenports. No. 142,978; May 24; v. 286; p. 845.

Davis Welding & Manufacturing Company, The, Cincinnati, Ohio. Tanks, mounting-frames for the tanks, &c. No. 142,254; May 10; v. 286; p. 403.

Day-Nite Corporation, Carson City, Nev., and San Francisco, Calif. Lenses for automobile-headlights. No. 141,918; May 3; v. 286; p. 184.

Dayton Dress Company, The, Dayton, Ohio. House-dresses and aprons. No. 142,494; May 17; v. 286; p. 626.

Decker, Jacob E., & Sons, Mason City, Iowa. Jowl-bacon squares. No. 141,919; May 3; v. 286; p. 184.

Decker, Jacob E., & Sons, Mason City, Iowa. Bacon, sausages, &c. No. 141,920; May 3; v. 286; p. 184.

Decker, Jacob E., & Sons, Mason City, Iowa. Chilli-con-carne. No. 142,495; May 17; v. 283; p. 626.

De Forest, Clark E., Unadilla, N. Y. Medicine for blind foul and foot-halt in cattle. No. 142,980; May 24; v. 286; p. 845.

De France, Maurice, Brussels, Belgium. Insoles made of cardboard. No. 143,314; May 31; v. 286; p. 1048.

De Jesús, José, New York, N. Y. Medicinal preparation. No. 143,056; May 24; v. 286; p. 847.

Delano, Potter & Co., Inc., Boston, Mass. Tea. No. 142,496; May 17; v. 286; p. 626.

Delavan, Sophia E., Chicago, Ill. Dolls. Nos. 142,497–8; May 17; v. 286; p. 626.

Del Castillo, Rafael & Co., New York, N. Y. Cotton piece goods. No. 143,311; May 31; v. 286; p. 1048.

De Long & Provost, Worcester, Mass. Dental specialties. No. 142,499; May 17; v. 286; p. 626.

Dental Ceramic Corporation, Greenport, N. Y. Compound for use in filling teeth. No. 143,313; May 31; v. 286; p. 1048.

Dental Ceramic Corporation, Greenport, N. Y. Compound for use in filling teeth. No. 143,315; May 31; v. 286; p. 1048.

Dental Manufacturing Co. Ltd., The, London, England. Dental and surgical appliances. No. 142,500; May 17; v. 286; p. 626.

Denver Hog Serum Company, The, Denver, Colo. Serum for the prevention of hog-cholera. No. 142,979; May 24; v. 286; p. 845.

Denzel, William, *et al.* (See Raymond, Le Roy, assignor.)

De Pass, Addison R., Columbia, S. C. Shooting device called sling-shot. No. 142,912; May 24; v. 286; p. 843.

Derryvale Linen Company, New York, N. Y. Writing-paper. No. 142,981; May 24; v. 286; p. 845.

Detroit Beverage Company, Detroit, Mich. Malt beverages. No. 142,863; May 17; v. 286; p. 638.

Deutsche Conservierungsgesellschaft mit beschränkter Haftung, Marienfelde, near Berlin, Germany. Varnishes and lacquers. No. 142,255; May 10; v. 286; p. 404.

Devlin, Joseph L., Lovell, Wyo. Board or table games. No. 142,501; May 17; v. 286; p. 626.

Diamond Felt Initial Co. Inc., New York, N. Y. Felt initial-fillers for embroidery. No. 141,921; May 3; v. 286; p. 184.

Diamond Iron Works, Minneapolis, Minn. Sawmill-hogs. No. 141,922; May 3; v. 286; p. 184.

Diamond Mills. (See West Side Hay & Grain Co., assignors.)

Diamond Potash Company, Chicago, Ill. Potash, phosphates, and chemical fertilizers. No. 142,982; May 24; v. 286; p. 845.

Diamond, Samuel, New York, N. Y. Neckbands. No. 142,502; May 17; v. 286; p. 626.

Diana Waist Co., Inc., New York, N. Y. Ladies' shirt-waists. No. 142,256; May 10; v. 286; p. 404.

Diffenbacher, Mark M., San Francisco, Calif. Spearmint candy. No. 142,983; May 24; v. 286; p. 845.

Di Salvo, Joseph, Brooklyn, N. Y. Medicinal preparations. No. 143,457; May 31; v. 286; p. 1052.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. Nos. 142,864–5; May 17; v. 286; p. 638.

District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Cover and box papers. Nos. 142,984–5; May 24; v. 286; p. 845.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. No. 142,257; May 10; v. 286; p. 404.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. No. 143,316; May 31; v. 286; p. 1048.

Dodd, Dorothy, Shoe Company, Boston, Mass. Shoe-laces, shoehorns, and button-hooks. No. 142,503; May 17; v. 286; p. 626.

Dodge-Hooker Mills, Wausau, Wis. Mixed-grain ration for dairy-cattle. No. 143,239; May 24; v. 286; p. 855.

Donahoe's, Inc., Pittsburgh, Pa. Bread, candies, coffees, teas, oleomargarin, &c. No. 143,240; May 24; v. 286; p. 855.

Donoho, Robert D., Los Angeles, Calif. Syrup for table and food flavoring. No. 141,923; May 3; v. 286; p. 184.

Dorety, W. P., Los Angeles, Calif. Motion-picture films. No. 141,924; May 3; v. 286; p. 184.

D'Orlando & Co., Ltd., Boston, Mass. Chocolate candy. No. 142,504; May 17; v. 286; p. 626.

Dorsey, Charles J., Baltimore, Md. Card games. No. 142,05; May 17; v. 286; p. 626.

Dottenheim, Mark, New York, N. Y. Pearls. Nos. 142,506–9; May 17; v. 286; p. 626.

Douchetts Product Company, Cleveland, Ohio. Douche in tablet form. No. 141,925; May 3; v. 286; p. 184.

Douglas Fir Exploitation Co., San Francisco, Calif. Lumber. No. 142,986; May 24; v. 286; p. 845.

Douglass Barnes Corporation, New York, N. Y. Coal and coke. No. 143,317; May 31; v. 286; p. 1048.

Douthitt, Jas. W., Bedford, Ind. Medicinal preparations. No. 141,926; May 3; v. 286; p. 184.

Dowling, G. P., Hardware Co., Ozark, Ala. Plow shares or scrapes. No. 141,927; May 3; v. 286; p. 184.

Doxie, Walter B., San Francisco, Calif. Oils for use in paints. No. 142,987; May 24; v. 286; p. 845.

Drain, M. D., Shepherd, Baltimore, Md. Medicinal preparations. No. 142,126; May 3; v. 286; p. 190.

Drake, J. A., and Sons, Reedley, Calif. Valves for internal-combustion engines. No. 143,318; May 31; v. 286; p. 1048.

Druid Oak Belting Company, Inc., The, Baltimore, Md. Waterproof machine-belting made of leather. No. 143,319; May 31; v. 286; p. 1048.

Dryfoos-Tiedmann Co., Inc., New York, N. Y. Cotton piece goods. No. 142,258; May 10; v. 286; p. 404.

Dudley Lumber Company, Inc., Memphis, Tenn. Logs and rough lumber. No. 142,988; May 24; v. 286; p. 845.

Duffee, J. W., Mfg. Co., Washington Court-House, Ohio. Preparation for coughs, colds, croup, &c. No. 141,928; May 3; v. 286; p. 184.

Dunlop America Limited, Buffalo, N. Y. Golf-balls. No. 142,989; May 24; v. 286; p. 845.

Dunn & McCarthy, Auburn, N. Y. Shoes. No. 142,510; May 17; v. 286; p. 626.

Dunwody, Richard G., Atlanta, Ga. Compound for treating coughs, colds, bronchitis, &c. No. 142,990; May 24; v. 286; p. 845.

Duplex Printing Press Co., Battle Creek, Mich. Rotary printing-presses, stereotype-casting boxes, &c. No. 142,866; May 17; v. 286; p. 638.

Du Pont, E. I., de Nemours & Co., Wilmington, Del. Ready-mixed paints. No. 141,929; May 3; v. 286; p. 184.

Du Pont, E. I., de Nemours Company, Wilmington, Del. Dyestuffs. No. 142,366; May 10; v. 286; p. 408.

Du Pont, E. I., de Nemours Company, Wilmington, Del. Dyestuffs. No. 142,368; May 10; v. 286; p. 408

Du Pont, E. I., de Nemours & Company. (See Du Pont Fabrikoid Company, assignor.)

Du Pont Fabrikoid Company, assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del. Imitation or artificial leather. No. 142,991; May 24; v. 286; p. 845.

Durham Manufacturing Company, The, Muncie, Ind. Fireless stoves. No. 142,511; May 17; v. 286; p. 626.

Dutton's Mex-O Candy Co., Indianapolis, Ind. Candies. No. 142,512; May 17; v. 286; p. 626.

Dyer, W. H., Company, Evansville, Ind. Foods. No. 141,930; May 3; v. 286; p. 184.

Eagle Ointment Company, Kansas City, Mo. Pile-ointment. No. 141,931; May 3; v. 286; p. 184.

Earle Hardware Manufacturing Co., Los Angeles, Calif. Hardware for builders. No. 142,992; May 24; v. 286; p. 845.

Earle-McGavock Milling Company, Asheville, N. C. Wheat-flour. No. 142,599; May 17; v. 286; p. 629.

Earle-McGavock Milling Company, Asheville, N. C. Wheat-flour. No. 142,993; May 24; v. 286; p. 845.

Earle-McGavock Milling Company, Asheville, N. C. Wheat-flour and cornmeal. No. 143,324; May 31; v. 286; p. 1048.

Earnshaw, George F., Chicago, Ill. Magazine published monthly. No. 142,259; May 10; v. 286; p. 404.

Easiest Way Manufacturing Company, The, Sandusky, Ohio. Laundry washing and ironing machines. No. 142,199; May 3; v. 286; p. 194.

Eastbay Chemical Company, Emeryville, Calif. Compound for cooling the tools of metal-cutting machinery. No. 143,323; May 31; v. 286; p. 1048.

Easterbrook Allcard & Co., Limited, Sheffield, England. Steel in rod, bar, wire-nail, sheet, and hook forms, shear-steel, &c. No. 141,829; May 3; v. 286; p. 181.

Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 141,932; May 3; v. 286; p. 184.

Easy Wash Laundry Tablet Co., Tyrone, Pa. Laundry tablets. No. 142,513; May 17; v. 286; p. 626.

Eggert Chemical Company, The, Canton, Ohio. Inoculating-bacteria. No. 142,260; May 10; v. 286; p. 404.

Ehret Magnesia Manufacturing Company, Valley Forge, Pa. Insulating material. No. 143,325; May 31; v. 286; p. 1048.

Elish, M. M., & Co., Inc., New York, N. Y. Bond-paper for writing and printing purposes. No. 142,994; May 24; v. 286; p. 845.

Ellmauer, Josef, Milwaukee, Wis. Automatic refrigerating-machines. No. 142,514; May 17; v. 286; p. 626.

Elmo Inc., Philadelphia, Pa. Face and talcum powders, perfume, and toilet waters. Nos. 143,326–8; May 31; v. 286; p. 1048.

Elswick-Hopper Cycle & Motor Company Limited, The, Barton-upon-Humber, England. Cycles and motorcycles. No. 141,933; May 3; v. 286; p. 184.

Ely & Walker Dry Goods Company, St. Louis, Mo. Articles of clothing. No. 143,329; May 31; v. 286; p. 1048.

Endwar Company, Limited, London, England. Tea. No. 141,934; May 3; v. 286; p. 184.

Eney Shortening Co., Chicago, Ill. Shortening. No. 142,515; May 17; v. 286; p. 626.

Eney Shortening Co., Chicago, Ill. Shortening. No. 142,995; May 24; v. 286; p. 845.

Erbes, Phillip A., San Francisco, Calif. Dust-caps for tire-valves. No. 142,516; May 17; v. 286; p. 626.

Ernst Wine of Tana Manufacturing Co., Otay, Calif. Medicinal preparation. No. 142,996; May 24; v. 286; p. 845.

Erwin Cotton Mills Co., The, West Durham, N. C. Cotton piece goods. No. 142,201; May 3; v. 286; p. 194.

Erwin Cotton Mills Co., West Durham, N. C. Sheets, pillow-cases, and cotton piece goods. No. 142,202; May 3; v. 286; p. 194.

Erwin Cotton Mills Co., The, Durham, N. C. Cotton goods in the piece. No. 143,241; May 24; v. 286; p. 856.

Erwin Cotton Mills Co., The, West Durham, N. C. Cotton goods in the piece. No. 143,330; May 31; v. 286; p. 1048.

Erwin Cotton Mills Co., The, West Durham, N. C. Sheets and pillow-cases and cotton goods in the piece. No. 143,331; May 31; v. 286; p. 1048.

Esko Products Company, Phillipsburg, N. J. Ointment. No. 143,332; May 31; v. 286; p. 1048.

Esmeralda, Madam, New York, N. Y. Hair-tonic. No. 142,997; May 24; v. 286; p. 845.

Essayan Jewelry Company, Boston, Mass. Jewelry and flat and hollow silverware. No. 142,261; May 10; v. 286; p. 404.

Estasi Perfumery Co., Inc., New York, N. Y. Toilet preparation. No. 142,998; May 24; v. 286; p. 845.

Estelle-Idler, Atlantic City, N. J. Cream for the scalp. No. 143,518; May 31; v. 286; p. 1055.

Eustis, J. P., Manufacturing Company, Cambridge, Mass. Fastenings comprising screws and bolts. No. 142,867; May 17; v. 286; p. 638.

Eye Brand Confectionery Inc., Brooklyn, N. Y. Candies. No. 142,999; May 24; v. 286; p. 845.

Fair, The, Chicago, Ill. Golf-balls. No. 142,517; May 17; v. 286; p. 626.

Falls Rubber Company, The, Cuyahoga Falls, Ohio. Tires, tubes, casings, shoes, and repair parts. No. 142,262; May 10; v. 286; p. 404.

Faria, Costa & Co., Incorporated, New York, N. Y. Coffee. No. 142,518; May 17; v. 286; p. 626.

Faust Mfg. Company, Chicago, Ill. Trousers-supporting belts. No. 142,263; May 10; v. 286; p. 404.

Featheredge Rubber Company, Inc., Chicago, Ill. Rubber sponges and sponge-rubber goods. No. 142,519; May 17; v. 286; p. 626.

Federal Porcelain Company, The, Carey, Ohio. Electrical porcelain articles. No. 141,935; May 3; v. 286; p. 184.

Federal Products Corporation, Providence, R. I. Sphygmomanometers. No. 142,520; May 17; v. 286; p. 626.

Federal Rubber Company, The, Cudahy, Wis. Hoof-pads. No. 142,521; May 17; v. 286; p. 626.

Federal Storage Battery Co., Washington, D. C. Electric batteries. No. 143,242; May 24; v. 286; p. 856.

Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. Nos. 142,522–3; May 17; v. 286; p. 626.

Feldman, Manuel, New York, N. Y. Rag and grass rugs. No. 143,243; May 24; v. 286; p. 856.

Ferguson & Timpson Limited, Glasgow, Scotland, and London, England. Sheet composite machinery packing for steam, water, &c. No. 143,333; May 31; v. 286; p. 1049.

Ferraline Medicine Company, Demopolis, Ala. Iron tonic, salve, and cough-syrup. No. 142,264; May 10; v. 286; p. 404.

Fiberloid Corporation, The, Indian Orchard, Mass. Receptacles. No. 142,525; May 17; v. 286; p. 626.

Fiberloid Corporation, The, Indian Orchard, Mass. Nail-files, clippers, and polishers, cuticle-knives, &c. No. 143,334; May 31; v. 286; p. 1049.

Fidelity Electric Company, The, Lancaster, Pa. Electric motors, generators, converters, &c. No. 141,936; May 3; v. 286; p. 184.

Fieker, C., & Co., Carlinville, Ill. Flour made from wheat. No. 142,526; May 17; v. 286; p. 626.

Field Body Corporation, Owosso, Mich. Vehicle-bodies and parts thereof. No. 143,000; May 24; v. 286; p. 846.

Field-Parker Company, El Paso, Tex. Furniture. No. 142,527; May 17; v. 286; p. 626.

Fielder, Charles K., Pasadena, Calif. Liquid preparation for catarrh and colds. No. 141,937; May 3; v. 286; p. 184.

Fieldstad Leather Company, The, Worcester, Mass. Leather and rawhide belt-laces and leather and rawhide for general uses and making belt-laces. No. 142,265; May 10; v. 286; p. 404.

Filtrine Manufacturing Company, The, Brooklyn, N. Y. Coolers, filters, and filtering material. No. 142,528; May 17; v. 286; p. 627.

Finch, David A., Grand Junction, Colo. Medicinal preparation for the treatment of influenza. No. 143,002; May 24; v. 286; p. 846.

Finlayson, Bousfield & Co., Ltd., Johnstone, Scotland. Yarn and threads. No. 142,266; May 10; v. 286; p. 404.

Fischer, Milton A., New York, N. Y. Scarf-pin protectors. No. 142,529; May 17; v. 286; p. 627.

Fishel, Samuel J., Brooklyn, N. Y. Children's underwaists. No. 143,335; May 31; v. 286; p. 1049.

Fisher Brothers, New Castle, Pa. Shirts, pants, and overalls. No. 142,530; May 17; v. 286; p. 627.

Fisk, D. B., & Co., Chicago, Ill. Trimmed and untrimmed hats for women and children. No. 142,369; May 10; v. 286; p. 408.

Fites, William E., San Francisco, Calif. Writing-inks. No. 142,531; May 17; v. 286; p. 627.

Fitterman, Leon, Atlanta, Ga. Hair-tonic. No. 143,003; May 24; v. 286; p. 846.

Fletcher & Wilson Coffee Company, Nashville, Tenn. Candy. No. 143,004; May 24; v. 286; p. 846.

Florasynth Laboratories, Incorporated, Unionport, N. Y. Reducing compound for lithographic and printing inks. No. 143,336; May 31; v. 286; p. 1049.

Florence Manufacturing Company, Northampton, Mass. Dentifrice. No. 143,337; May 31; v. 286; p. 1049.

Folsom-Miller Company, The, Milwaukee, Wis. Laundry-washing machines. No. 142,532; May 17; v. 286; p. 627.

Foltmer, C. H., Wray, Colo. Auxiliary power-transmitting shafts for automobiles. No. 141,938; May 3; v. 286; p. 184.

Fond du Lac Bedding Co., Fond du Lac, Wis. Mattresses and pillows. No. 142,868; May 17; v. 286; p. 638.

Ford Flour Company, Nashville, Tenn. Wheat-flour. No. 143,005; May 24; v. 286; p. 846.

Foreign Patents Corporation, The, New York, N. Y. Motion-picture-projecting machines and parts thereof. No. 142,533; May 17; v. 286; p. 627.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 143,338; May 31; v. 286; p. 1049.

Forsyth Dental Infirmary for Children, The, Boston, Mass. Dental filling materials—namely, cements and alloys, &c. No. 142,534; May 17; v. 286; p. 627.

Fort Pitt Bedding Company, Pittsburgh, Pa. Automobile seats and chairs. No. 142,539; May 17; v. 286; p. 627.

Fox Film Corporation, New York, N. Y. Moving-picture and photo-play films. No. 143,001; May 24; v. 286; p. 846.

Fox Paint Co., The, Cincinnati, Ohio. Paint enamels. No. 143,006; May 24; v. 286; p. 846.

Fox River Butter Company, Inc., New York, N. Y. Oleomargarin. No. 143,206; May 24; v. 286; p. 852.

Fractman, Joseph B., Wichita, Kans. Men's and boys' clothing. No. 141,939; May 3; v. 286; p. 184.

Frain-Slamaker Hardware Company. (See Slaymaker, Samuel R., assignor.)

Francis, George P., Pawtucket, R. I. Cigarettes. No. 142,535; May 17; v. 286; p. 627.

Frank, Isador, New York, N. Y. Children's overcoats, mackinaws, and reefers. No. 143,339; May 31; v. 286; p. 1049.

Frank, Leopold, London, England. Lap-robes made of textile fabrics. No. 142,267; May 10; v. 286; p. 404.

Freedman, Arthur O., Boston, Mass. Skin-lotion. No. 141,940; May 3; v. 286; p. 184.

Freeman-Daughaday Co., Chartley, Mass. Jewelry. No. 143,007; May 24; v. 286; p. 846.

Friedman, Ike K., Fort Worth, Tex. Ice-cream and frozen custard. No. 142,536; May 17; v. 286; p. 627.

Fruited Cereal Company, Dover, Del., and Quincy, Ill. Breakfast food comprising a combination of cereals and fruits. No. 141,941; May 3; v. 286; p. 184.

Fuld, Traube & Co., Inc., New York, N. Y. Silk hair-nets. No. 142,537; May 17; v. 286; p. 627.

Fuld, William, Baltimore, Md. Talking-boards. No. 142,200; May 3; v. 286; p. 194.

Fuld, William, Baltimore, Md. Liniment for rheumatism. No. 143,008; May 24; v. 286; p. 846.

Fuller Brush Company, The, Hartford, Conn. Racks and trays. No. 143,340; May 31; v. 286; p. 1049.

Funk & Wagnalls Company, New York, N. Y. Publications relating to the study of languages. No. 143,009; May 24; v. 286; p. 846.

Fybush, Moses F., Los Angeles, Calif. Phonographs. No. 141,906; May 3; v. 286; p. 183.

G & J Tire Company, Indianapolis, Ind. Vehicle-tires made of rubber. No. 142,394; May 10; v. 286; p. 411.

Gairing Tool Company, The, Detroit, Mich. Metal-working tools. No. 143,341; May 31; v. 286; p. 1049.

Galle, Edward E., Los Angeles, Calif. Adhesive gum and cement, glue. No. 142,541; May 17; v. 286; p. 627.

Garcia & Maggini Co., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif. Canned fresh and dried fruits. No. 142,542; May 17; v. 286; p. 627.

Gardineer, Marian F., Seattle, Wash. Dolls, dolls' dresses, and dress-patterns therefor. No. 143,342; May 31; v. 286; p. 1049.

Gardner, Moffat Co. Inc., New York, N. Y. Monthly periodicals. No. 143,010; May 24; v. 286; p. 846.

Gardner Seed Company, Rochester, N. Y. Field, vegetable, and flower seeds. No. 143,343; May 31; v. 286; p. 1049.

Garrett, Howard L., Allentown, Pa. Plate-dentifrice. No. 143,344; May 31; v. 286; p. 1049.

Gartner Importing Corporation, New York, N. Y. Swiss cotton fabrics in the piece. No. 142,543; May 17; v. 286; p. 627.

Gaston, Williams & Wigmore, Far Eastern Division, Inc., New York, N. Y. Indigo dyes and paste, and Midland quick indigo. Nos. 143,345–6; May 31; v. 286; p. 1049.

Geigy Company, Inc., New York, N. Y. Dyestuffs. Nos. 143,011–12; May 24; v. 286; p. 846.

Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Polish for furniture, automobile-bodies, floors, &c. No. 141,942; May 3; v. 286; p. 184.

Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Maps. No. 143,013; May 24; v. 286; p. 846.

General Chemical Company, New York, N. Y. Baking-powder. No. 143,014; May 24; v. 286; p. 846.

General Eclipse Co., The, Danielson, Conn. Writing-ink and writing-ink in tablet form. No. 143,347; May 31; v. 286; p. 1049.
General Electric Company, Schenectady, N. Y. Glassware. No. 143,348; May 31; v. 286; p. 1049.
General Embroidery & Military Supply Co., Inc., New York and Brooklyn, N. Y. Embroideries for military and civilian purposes. No. 143,349; May 31; v. 286; p. 1049.
Geneva Watch Company, New York, N. Y. Ladies' and gentlemen's watches, and clocks. No. 143,032; May 24; v. 286; p. 846.
Georgia Vita Ligno Co., Brunswick, Ga. Wood-preserving compound. No. 143,205; May 24; v. 286; p. 852.
Gerber Undergarment Company, The, New York, N. Y. Negligées, dressing-sacks, pajamas, nightgowns, &c. No. 143,015; May 24; v. 286; p. 846.
Ghrist, John E., Des Moines, Iowa. Medicinal preparations. No. 143,016; May 24; v. 286; p. 846.
Gibbs, John, Terre Haute, Ind. Preparation for treatment of kidneys, liver, bladder, and sexual debility. No. 143,024; May 24; v. 286; p. 846.
Gibson, Frank H., Omaha, Nebr. Coffee. No. 142,268; May 10; v. 286; p. 404.
Gilbert, John O., Jackson, Mich. Candy. No. 142,203; May 3; v. 286; p. 194.
Gilbert Paper Co., Menasha, Wis. Bond-paper. No. 141,943; May 3; v. 286; p. 184.
Gillespie, Gordon F., Los Angeles, Calif. Dolls and dolls' hats and dresses. No. 142,546; May 17; v. 286; p. 627.
Given, John M., Inc., Pittsburgh, Pa., New York, N. Y., and Chicago, Ill. Hosiery. No. 141,944; May 3; v. 286; p. 184.
Gladney Milling Company, Sherman, Tex. Wheat-flour. Nos. 143,017–20; May 24; v. 286; p. 846.
Glass Industry Publishing Co., Inc., New York, N. Y. Publication issued monthly. No. 142,269; May 10; v. 286; p. 404.
Glemby, S., Inc., New York, N. Y. Hair-nets. No. 143,244; May 24; v. 286; p. 856.
Glidden-Hyde Co., Boston, Mass. Hosiery. No. 142,204; May 3; v. 286; p. 194.
Globe Grocery Stores, Inc., Brooklyn, N. Y. Furniture-polish. No. 143,350; May 31; v. 286; p. 1049.
Globe Shirt & Overall Company, Abingdon, Ill. Clothing. No. 143,021; May 24; v. 286; p. 846.
Golco Sanitary System, Inc., Philadelphia, Pa. Paper towels, napkins, wrappers for lunches, and toilet-paper. No. 143,022; May 24; v. 286; p. 846.
Gold, Louis, New York, N. Y. Wraps, suits, dresses, coats, skirts, &c. No. 143,519; May 31; v. 286; p. 1055.
Golden State Canneries, Los Angeles, Calif. Canned fruits, vegetables, berries, and olives. No. 143,245; May 24; v. 286; p. 856.
Goldstein-Kirshner Co., New York, N. Y. Pajamas and nightgowns. No. 143,023; May 24; v. 286; p. 846.
Goldstone, Leo W., Oakland, Calif. Overalls, aprons, work-shirts, &c. No. 141,945; May 3; v. 286; p. 185.
Goldwater, H., & Co. Inc., New York, N. Y. Girls' coats. No. 142,370; May 10; v. 286; p. 408.
Gomez, Diego, Seville, Spain. Olives. No. 143,025; May 24; v. 286; p. 846.
Gomi, Evelina F., New York, N. Y. Incense. No. 143,026; May 24; v. 286; p. 846.
Good, Geo. S., Fire Brick Co., Patton, Pa. Fire-bricks and paving-blocks. No. 142,870; May 17; v. 286; p. 639.
Good Housekeeping Electric Shoppe, Minneapolis, Minn. Electric clothes washers and ironers. No. 142,545; May 17; v. 286; p. 627.
Goodman, Benjamin B., Philadelphia, Pa. Outer clothing for men and boys. No. 143,351; May 31; v. 286; p. 1049.
Goodrich, B. F., Company, The, New York, N. Y. Belting and hose made of fabric combined with rubber and machinery packing made wholly or partly of rubber. No. 143,352; May 31; v. 286; p. 1049.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires and tubes. No. 141,946; May 3; v. 286; p. 185.
Goodyear Tire & Rubber Co., The, Akron, Ohio. Automobiles and motor-trucks. No. 143,353; May 31; v. 286; p. 1049.
Gordon & Dilworth, Inc., New York, N. Y. Orange marmalade. No. 143,354; May 31; v. 286; p. 1049.
Gotham Merchandise Company, New York, N. Y. Ladies' furnishings. No. 141,947; May 3; v. 286; p. 185.
Gozdal, Joseph, Yardley, Wash. Medicine for disease of the eye. No. 143,027; May 24; v. 286; p. 846.
Graham, Benjamin F., Chicago, Ill. Collapsible doors. No. 143,355; May 31; v. 286; p. 1049.
Graham, Walter C., Cohoes, N. Y. Soap flakes. No. 142,548; May 17; v. 286; p. 627.
Grand Union Tea Co., Brooklyn, N. Y. Machine-oil. No. 148,033; May 24; v. 286; p. 846.
Grant Leather Corporation, Kingsport, Tenn. Leather belting. No. 143,356; May 31; v. 286; p. 1049.
Great American Knitting Mills, Inc., Bechtelsville and Bally, Pa. Hosiery. No. 142,549; May 17; v. 286; p. 627.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Bread. No. 142,436; May 17; v. 286; p. 624.
Green, William T., Summit, N. J. Dentifrice. No. 141,949; May 3; v. 286; p. 185.
Greenebaum Bros. & Co., Philadelphia, Pa. Boys' blouses made of cotton, silk, flannel, and the like. No. 143,357; May 31; v. 286; p. 1049.
Greenbaum, Ephraim, New York, N. Y. Salve for drawing and healing boils, felons, &c. No. 141,950; May 3; v. 286; p. 185.
Greenbaum, Harry L., New York, N. Y. Paint enamel. No. 142,271; May 10; v. 286; p. 404.
Greenwich Cheese Co., New York, N. Y. Cheese. No. 142,550; May 17; v. 286; p. 627.
Greilich, William, & Sons, Inc., Brooklyn, N. Y. Bathing-shoes. No. 143,028; May 24; v. 286; p. 846.
Grimes Canning & Preserving Company, Grimes, Iowa. Canned pork and beans. No. 143,029; May 24; v. 286; p. 846.
Grocers Biscuit Company, Louisville, Ky. Biscuits and crackers. No. 142,272; May 10; v. 286; p. 404.
Grosner, Clarence W., Washington, D. C. Articles of clothing. No. 143,030; May 24; v. 286; p. 846.
Gross, August, Chicago, Ill. Ointment for treatment of tired and sore feet. No. 141,951; May 3; v. 286; p. 185.
Gross, Joseph S., Los Angeles, Calif. Honey. No. 142,551; May 17; v. 286; p. 627.
Grushlaw & Sichel, Philadelphia, Pa. Knitted jackets. No. 143,031; May 24; v. 286; p. 846.
Gunn & Barrick Tobacco Co., Springfield, Tenn. Smoking-tobacco. No. 142,552; May 17; v. 286; p. 627.
Gurley Candy Company, Minneapolis, Minn. Candy. No. 142,553; May 17; v. 286; p. 627.
Guthrie, John R., Richmond, Va. Fertilizers. No. 142,547; May 17; v. 286; p. 627.
Gypsos Corporation, Indianapolis, Ind. Building materials. No. 141,952; May 3; v. 286; p. 185.
H. & W. Company, Inc., The, Newark, N. J. Articles of clothing. No. 142,371; May 10; v. 286; p. 408.
Haas, B. & Sons, Cincinnati, Ohio. Men's and young men's trousers. No. 142,205; May 3; v. 286; p. 194.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, artificial silk, woolen, cotton, and linen fabrics. No. 142,554; May 17; v. 286; p. 627.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, &c., piece goods, and combinations thereof. No. 142,555; May 17; v. 286; p. 627.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, cotton, and linen piece goods and combinations thereof. No. 143,034; May 24; v. 286; p. 847.
Haas, Geo., & Sons, San Francisco, Calif. Candles. Nos. 142,871–3; May 17; v. 286; p. 639.
Haile, Dr. T. J., & Co., Fitzgerald, Ga. Medicinal preparation. No. 141,953; May 3; v. 286; p. 185.
Hall Auto Company, Collinsville, Ala. Sawmills. No. 142,556; May 17; v. 286; p. 627.
Haltenhof, Berthold L., New York, N. Y. Electric control-cabinets, switch-boxes, panel-boards, and cut-out boxes. No. 142,557; May 17; v. 286; p. 627.
Hamilton, Robert D., Savannah, Ga. Non-alcoholic fruit drink and syrup for making same. No. 142,874; May 17; v. 286; p. 639.
Handel Co., The, Meriden, Conn. Portable, stand, and stationary electric lamps and standards, &c. No. 143,359; May 31; v. 286; p. 1049.
Harley, E. C., Company, The, Dayton, Ohio. Coffee. No. 141,954; May 3; v. 286; p. 185.
Harper, A., Sons and Bean Limited, Dudley, England. Motor-cars, motorcycles, cycle-cars, and parts thereof. No. 143,035; May 24; v. 286; p. 847.
Harrington Brothers, Marianna, Ark. Liver-pills. No. 141,956; May 3; v. 286; p. 185.
Harris Broom Company, The, Chicago, Ill. Brooms. No. 142,558; May 17; v. 286; p. 627.
Harris, Friedman & Company, Scranton, Pa. Articles of clothing. No. 141,955; May 3; v. 286; p. 185.
Harris Soap Company, Buffalo, N. Y. Laundry soap and oil soaps and soap powder. No. 143,246; May 24; v. 286; p. 856.
Harrold Tool & Forge Co., The, Columbiana, Ohio. Mechanics' tools. No 141,957; May 3; v. 286; p. 185.
Hart, Charles, Jamaica, N. Y. Metal composition used in electrotyping. No. 143,036; May 24; v. 286; p. 847.
Harzee Manufacturing Company, The, Cleveland, Ohio. Polishes for furniture, automobiles, &c., and for re-oiling mops. No. 142,559; May 17; v. 286; p. 627.
Haskins, R. G., Company, Chicago, Ill. Electrically-operated portable machinery comprising buffers, grinders, &c. No. 142,560; May 17; v. 286; p. 627.
Haug & Co., Inc., New York, N. Y. Flavoring extracts, pie-fillings, spices, egg-whip. No. 143,247; May 24; v. 286; p. 856.
Hausen, Charles J., New York, N. Y. Garters. No. 143,360; May 31; v. 286; p. 1049.
Hawley & Hoops, New York, N. Y. Candy. Nos. 143,037–8; May 24; v. 286; p. 847.
Haynes, Henry A., Winterville, Ga. Worm medicine and tonic for stock. No. 143,361; May 31; v. 286; p. 1049.
Heart of Maine Packing Co., Lewiston, Me. Canned vegetables—namely, corn—and canned apple sauce. No. 143,039; May 24; v. 286; p. 847.
Hecht, Mendes & Mandel, New York, N. Y. Cotton piece goods and cotton mixtures in the piece. No. 141,958; May 3; v. 286; p. 185.
Heddon's, James, Sons, Dowagiac, Mich. Bamboo casting-rods, artificial wooden minnows, casting-reels. No. 142,875; May 17; v. 286; p. 639.
Hedeman, William A., New York, N. Y. Piece goods, consisting of velvet and velveteen cloth. No. 141,959; May 3; v. 286; p. 185.

Hedeman, William A., New York, N. Y. Piece goods, consisting of velvet and velveteen cloths. No. 142,562; May 17; v. 286; p. 628.
Hedges, Harry K., Los Angeles, Calif. Interior and exterior building plaster and cement. No. 141,960; May 3; v. 286; p. 185.
Heinlick, Frederick R., San Francisco, Calif. Pearls and pearl necklaces. No. 142,273; May 10; v. 286; p. 404.
Helbig, Harold, Washington, D. C. Polish which acts as a cleanser for pianos, phonographs, and furniture. No. 142,876; May 17; v. 286; p. 639.
Heller, I., & Co., Inc., New York, N. Y. Ladies' dresses and costumes. No. 142,877; May 17; v. 286; p. 639.
Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. No. 143,362; May 31; v. 286; p. 1049.
Hempel, Otto F., Buffalo, N. Y. Deodorant and astringent. No. 143,363; May 31; v. 286; p. 1049.
Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. No. 143,040; May 24; v. 286; p. 847.
Herbert, Phil., Houston, Tex. Medicine for the respiratory organs. No. 141,961; May 3; v. 286; p. 185.
Herrera, Francisco, New York, N. Y., and Habana, Cuba. Medicinal preparation for the treatment of intestinal troubles and nerve and reconstruction tablets. No. 143,041; May 24; v. 286; p. 847.
Herpich, John L., Columbus, Ohio. Medicinal preparation. No. 141,962; May 3; v. 286; p. 185.
Hess, Goldsmith & Co., New York, N. Y. Silk and silk and wool mixture piece goods. No. 143,364; May 31; v. 286; p. 1049.
Hewitt, C. B., & Brothers, Inc., New York, N. Y. Drawing-paper. No. 142,564; May 17; v. 286; p. 628.
Hieber, John G. F., Spokane, Wash. Non-alcoholic, non-intoxicating, &c., beverages. No. 141,963; May 3; v. 286; p. 185.
Highland Brewing Co., Highland, Ill. Non-intoxicating, cereal, malt beverage. No. 142,565; May 17; v. 286; p. 628.
Highland Manufacturing Company, Holyoke, Mass. Round and square corner cut name, data, and index cards. No. 143,365; May 31; v. 286; p. 1050.
Higginbotham-Bailey-Logan Company, Inc., Dallas, Tex. Hosiery. No. 141,964; May 3; v. 286; p. 185.
Hill & Cutler Co., Boston and New Bedford, Mass. Cotton-waste. No. 143,366; May 31; v. 286; p. 1050.
Hill Rubber Heel Company, The, Elyria, Ohio. Rubber heels. No. 143,367; May 31; v. 286; p. 1050.
Hinch & Muller, New York, N. Y. Cotton piece goods. No. 142,566; May 17; v. 286; p. 628.
Hinck & Muller, New York, N. Y. Cotton piece goods. No. 143,042; May 24; v. 286; p. 847.
Hirsch, Cal, & Sons, Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Men's and boys' outer clothing. No. 142,567; May 17; v. 286; p. 628.
Hirsch, Walter J., Co., Chicago, Ill. Peanut-butter. No. 142,568; May 17; v. 286; p. 628.
Hirth Krause Company, Rockford, Mich. Shoes of leather, leather and fabric, and gloves of leather and leather and fabric. No. 143,043; May 24; v. 286; p. 847.
Hochrack, Kathryn, Bloomington, Ill. Toilet preparations. No. 143,044; May 24; v. 286; p. 847.
Hoegger, Joseph A. (See Squier, George C., assignor.)
Hofer, Laurence F., Salem, Oreg. Ink for use in stencil-duplicating machines. No. 142,569; May 17; v. 286; p. 628.
Hofeld, Henry R., Buffalo, N. Y. Patches for repairing inner tubes of tires, &c. No. 143,368; May 31; v. 286; p. 1050.
Holland-O'Neal Milling Co., Springfield, Mo. Wheat-flour. No. 143,045; May 24; v. 286; p. 847.
Hollander, Harry, Brooklyn, N. Y. Brassière. No. 142,274; May 10; v. 286; p. 404.
Holley, William G., Fort Wayne, Ind. Medicinal preparation for indigestion, dyspepsia, &c. No. 141,965; May 3; v. 286; p. 185.
Hollingshead W. R., Company, Binghamton, N. Y. Bluing. No. 141,966; May 3; v. 286; p. 185.
Hollingshead, W. R., Company, Binghamton, N. Y. Healing and soothing salve for cuts, burns, bruises, and sores. No. 143,046; May 24; v. 286; p. 847.
Hollingsworth Candy Co., Augusta, Ga. Candy. No. 143,049; May 24; v. 286; p. 847.
Hollinshed, Chas., Co. Inc., New York, N. Y. Choice refined peanut-oil. No. 142,570; May 17; v. 286; p. 628.
Hollinshed, Chas. Co. Inc., New York, N. Y. Refined cocoanut-oil. No. 143,369; May 31; v. 286; p. 1050.
Holophane Glass Company, Inc., New York, N. Y. Glass globes and reflectors for artificial light. Nos. 141,967–8; May 3; v. 286; p. 185.
Homer Furnace Company, Coldwater, Mich. Coal, wood, and gas furnaces. No. 143,249; May 24; v. 286; p. 856.
Hommel, William H., Sandusky, Ohio. Non-alcoholic wines. No. 143,370; May 31; v. 286; p. 1050.
Hood, Charles F., Connellsville, Pa. Containers for disinfecting substances. No. 142,571; May 17; v. 286; p. 628.
Hood Rubber Company, Watertown, Mass. Rubber vehicle-tires. No. 143,248; May 24; v. 286; p. 856.
Hoofol Manufacturing Company Inc. Philadelphia, Pa. Oil dressing for belting. No. 143,371; May 31; v. 286; p. 1050.
Hoosier Milling Co., Inc., Indianapolis, Ind. Cake flour. No. 143,047; May 24; v. 286; p. 847.
Horzsa, György, New York, N. Y. Medicinal salve for certain named purposes. No. 141,969; May 3; v. 286; p. 185.
Howard Bros. Chemical Co., Buffalo, N. Y. Face-cream, face and talcum powders. No. 141,970; May 3; v. 286; p. 185.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 142,572; May 17; v. 286; p. 628.
Howard, F. A., Laboratories, Inc., Boston, Mass. Leather-preservative. No. 142,573; May 17; v. 286; p. 628.
Howard & Scott, New York, N. Y. Preparation for cleaning glass. No. 142,574; May 17; v. 286; p. 628.
Howell Electric Motors Company, Howell, Mich. Electric generators and motors. No. 143,050; May 24; v. 286; p. 847.
Hoyt, Frank H., Sharon, Pa. Medicinal and pharmaceutical preparations. No. 141,971; May 3; v. 286; p. 185.
Hoyt Metal Company, St. Louis, Mo. Babbitt metal. Nos. 142,275–6; May 10; v. 286; p. 404.
Hudson & Bons, New York, N. Y. Cotton goods in the piece. No. 142,575; May 17; v. 286; p. 628.
Hudson, A., and Sons, Kokomo, Ind. Medicine for eczema. No. 141,972; May 3; v. 286; p. 185.
Hudson, Charles C., Greensboro, N. C. Overalls, work-shirts, work-jackets, and work-pants. No. 142,277; May 10; v. 286; p. 404.
Hudson Cigar Company, Beallsville, Ohio. Cigars. No. 142,576; May 17; v. 286; p. 628.
Hudson Mechanical Rubber Co., Trenton, N. J., and New York, N. Y. Hose, belting, gaskets, packings, valves, and tires. Nos. 142,206–9; May 3; v. 286; p. 195.
Hudson Narrow Fabric Co., Hudson, Mass. Textile tapes. No. 142,577; May 17; v. 286; p. 628.
Hugh Wallace Company, Detroit, Mich. Knit woolen cloth in the piece and overcoatings for clothing. No. 143,250; May 24; v. 286; p. 856.
Hughes & Adams, Inc., Seattle, Wash. Coffee. No. 142,578; May 17; v. 286; p. 628.
Hull, Ella, Idaho Springs, Colo. Healing-cream for piles, skin eruptions, sores, &c. No. 141,973; May 3; v. 286; p. 185.
Hunt, C. Howard, Pen Company, Camden, N. J. Drawing and lettering ink. No. 143,048; May 24; v. 286; p. 847.
Hunter, H. B., Co. Inc., Norfolk, Va. Root-beer and ginger-ale. No. 142,278; May 10; v. 286; p. 404.
Hunter, H. B., Co. Inc., Norfolk, Va. Syrups used in making non-alcoholic maltless soda-fountain beverages. No. 142,279; May 10; v. 286; p. 404.
Hurwitz, Frank, Baltimore, Md. Butter and cheese. No. 142,878; May 17; v. 286; p. 639.
Hurwitz, Frank, Baltimore, Md. Butter. No. 143,051; May 24; v. 286; p. 847.
Hurwitz, Nathan, New York, N. Y. Hair-dye. No. 141,974; May 3; v. 283; p. 185.
Hygrade Provision Company, Inc., Brooklyn, N. Y. Foods. No. 142,579; May 17; v. 286; p. 628.
Ideal Cocoa and Chocolate Co., New York, N. Y., and Lititz, Pa. Chocolate. No. 143,251; May 24; v. 286; p. 857.
Ideal Laboratories Company, Chicago, Ill. Toilet preparations. Nos. 141,975–6; May 3; v. 286; p. 185.
Ilarin Brothers, Newark, N. J. Medicinal and toilet preparations. No. 143,052; May 24; v. 286; p. 847.
Improved Office Partition Company, New York, N. Y. Removable or knockdown interior partitions and railings and removable interior trim. No. 142,580; May 17; v. 286; p. 628.
Indiana Aluminum Ware Company, Elkhart, Ind. Metal cooking and household utensils. No. 142,581; May 17; v. 286; p. 628.
Indianapolis Glove Company, Indianapolis, Ind. Fabric gloves and mittens. No. 143,053; May 24; v. 286; p. 847.
Ingalls Stone Company, Bedford, Ind. Cut stone for building purposes. No. 142,879; May 17; v. 286; p. 639.
International Cork Company, Brooklyn, N. Y. Closures for bottles and the like. No. 141,979; May 3; v. 286; p. 186.
International Clearing House, Inc., New York, N. Y. Cotton, wool, silk, or mixture piece goods. No. 141,978; May 3; v. 286; p. 186.
International Harvester Company, Chicago, Ill. Agricultural machinery and parts thereof. No. 142,582; May 17; v. 286; p. 628.
International Nickel Co., The, New York, N. Y. Metal alloy containing nickel and copper. No. 142,583; May 17; v. 286; p. 628.
International Printing Plate Co., Inc., Arlington, N. J. Printing-plates ready for printing. No. 143,372; May 31; v. 286; p. 1050.
Interstate Chemical Company, Jersey City, N. J. Insecticides and germicides. No. 141,977; May 3; v. 286; p. 186.
Interstate Employment System, Denver, Colo. Periodical publications issued monthly. No. 143,054; May 24; v. 286; p. 847.
Inter-State Oil Company, Minneapolis, Minn. Dry colors, colors in oil, ready-mixed paints, and enamel paints. No. 142,280; May 10; v. 286; p. 404.
Ironall Factories Co., The, Cincinnati, Ohio. Overalls, coats, pantaloons, pants, and play-suits, &c. No. 142,584; May 17; v. 286; p. 628.

Isaacs, Sigmund, New York, N. Y., and Yokohama, Japan. Razors and safety-razor blades. No. 142,281; May 10; v. 286; p. 404.

Ising, C. E., Corporation, The, New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 141,980; May 3; v. 286; p. 186.

Ismert-Hincke Milling Company, Kansas City, Kans., and Kansas City, Mo. Flours, cornmeal, and chicken feed. No. 141,981; May 3; v. 286; p. 186.

Ismert-Hincke Milling Company, Kansas City, Kans., and Kansas City, Mo. Wheat-flour. No. 142,585; May 17; v. 286; p. 628.

It's It Manufacturing Co., Philadelphia, Pa. Cleaning and grease-removing soap. No. 142,586; May 17; v. 286; p. 628.

Jackson, Alfred J., Grand Rapids, Mich. Automobiles. No. 143,373; May 31; v. 286; p. 1050.

Jackson Piano Co., Milwaukee, Wis. Pianos and player-pianos. No. 142,372; May 10; v. 286; p. 408.

Jacobus, Martin R., New York, N. Y. Feed-hoppers. No. 142,880; May 17; v. 286; p. 639.

James, R. Gainsforth, Detroit, Mich. Medicinal preparations. No. 143,055; May 24; v. 286; p. 847.

Jansen and Pretzfeld, Inc., New York, N. Y. Dress-silk in the piece. No. 142,587; May 17; v. 286; p. 628.

Jenckes Spinning Company, Pawtucket, R. I. Laundry-bags. No. 141,982; May 3; v. 286; p. 186.

Jenckes Spinning Company, Pawtucket, R. I. Canvas bags for carrying coal. No. 142,588; May 17; v. 286; p. 628.

Jiffy Dessert Company, Waukesha, Wis. Beverage-powders for making non-alcoholic, non-cereal maltless beverages. No. 142,589; May 17; v. 286; p. 628.

Joerns-Mohr Corporation, St. Paul, Minn. Unitary electric-lighting plants. No. 142,590; May 17; v. 286; p. 628.

Johnson, Le Roy J., Logansport, Ind. Pastries, cakes, doughnuts, and mincemeat. No. 141,983; May 3; v. 286; p. 186.

Johnson-Locke Mercantile Co., The, San Francisco, Calif. Canned fish. No. 142,592; May 17; v. 286; p. 628.

Johnson, Willie S., assignor to L. M. Wilkinson, St. Louis, Mo. Repair outfits for automobile tires and tubes. No. 142,373; May 10; v. 286; p. 408.

Johnston, George F., Fort Dodge, Iowa, assignor to Pyro-Non Paint Co. Inc., New York, N. Y. Ready-mixed fire-resisting paints, shingle-stains. No. 141,984; May 3; v. 286; p. 186.

Johnston, George H., Norristown, Pa. Silver and metal polish. No. 142,591; May 17; v. 286; p. 628.

Johnston, R. F., Paint Co., The, Cincinnati, Ohio. Prepared and ready-mixed paints. No. 142,282; May 10; v. 286; p. 404.

Johnston, R. F., Paint Company, The, Cincinnati, Ohio. Paint in paste form. No. 142,593; May 17; v. 286; p. 628.

Jones, Robert T., Martins Ferry, Ohio. Medicinal preparation. No. 141,985; May 3; v. 286; p. 186.

Jonkopings & Vulcans Tandsticksfabriks Aktiebolag. (See Aktiebolaget Förenade Svenska Tandsticksfabriker, assignor.)

K-D Lamp Company, The, Cincinnati, Ohio. Electric lamps for automobiles and other vehicles. No. 142,650; May 17; v. 286; p. 630.

Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. Parchment-papers. No. 142,210; May 3; v. 286; p. 195.

Kamm Co., Mishawaka, Ind. Non-alcoholic beverages; syrup colors and flavors used in preparation thereof. No. 143,057; May 24; v. 286; p. 847.

Kansas City Broom Company, Kansas City, Mo. Brooms. No. 142,647; May 17; v. 286; p. 630.

Kansas City Wall Paper Company, Kansas City, Mo. Wall-paper. No. 143,374; May 31; v. 286; p. 1050.

Kansas, Thomas C., Amsterdam, N. Y. Soap. No. 142,648; May 17; v. 286; p. 630.

Karcher, A., Candy Co., Little Rock, Ark. Candy. No. 142,649; May 17; v. 286; p. 630.

Kaufman-Straus Co., Louisville, Ky. Toilet and bath soaps. No. 143,375; May 31; v. 286; p. 1050.

Kay & Ess Company, The, Dayton, Ohio. Paints and painters' materials. Nos. 141,986–8; May 3; v. 286; p. 186.

Kegan Grace Co., Baltimore, Md. Overalls. No. 143,058; May 24; v. 286; p. 847.

Kellogg, John L., Battle Creek, Mich. Corn candy. No. 142,651; May 17; v. 286; p. 630.

Kelly, John F., Pittsfield, Mass. Dried cranberries, corn, carrots, mixed vegetables, &c. No. 143,376; May 31; v. 286; p. 1050.

Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. No. 141,989; May 3; v. 286; p. 186.

Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. No. 142,652; May 17; v. 286; p. 630.

Kendall, John F., New York, N. Y. Mechanical fuel-economizers. No. 143,377; May 31; v. 286; p. 1050.

Kentucky Derby Co., Inc., New York, N. Y. Dolls. No. 142,653; May 17; v. 286; p. 630.

Kern, Frederick E., St. Louis, Mo. Ironing-tools for millinery purposes. No. 142,654; May 17; v. 286; p. 630.

Kerner Incinerator Company, Milwaukee, Wis. Incinerators. No. 141,990; May 3; v. 286; p. 186.

Kerr, Alex., Bros. & Co., Philadelphia, Pa. Salt. No. 143,059; May 24; v. 286; p. 847.

Kessel Account Book Company, The, Boston, Mass. Partially-printed forms, instruction-blanks, and account-books. No. 143,064; May 24; v. 286; p. 847.

Keuffel & Esser Company, Hoboken, N. J. Drawing instruments. Nos. 143,060–1; May 24; v. 286; p. 847.

Keystone Reamer & Tool Company, Millersburg, Pa. Reamers, taps, dies, and milling-cutters. No. 141,991; May 3; v. 286; p. 186.

Keystone Surgical Supply Co., Conshohocken, Pa. Medical and surgical appliances. No. 143,378; May 31; v. 286; p. 1050.

Khan, Ollie B. H., Chicago, Ill. Medicinal preparations.

Kiddy Shoe Service, Inc., Lititz, Pa. Shoes made of leather and combination of leather and fiber. No. 141,992; May 3; v. 286; p. 186.
No. 142,283; May 10; v. 286; p. 404.

Kiewel Brewing Company, Crookston, Minn. Beverage. No. 141,993; May 3; v. 286; p. 186.

King Bee Spark Plug Company, St. Louis, Mo. Spark-plugs. No. 142,657; May 17; v. 286; p. 630.

King Candy Co., Fort Worth, Tex. Candy. Nos. 142,655–6; May 17; v. 286; p. 630.

King-Ferree Co., Greensboro, N. C. Cigars. No. 142,677; May 17; v. 286; p. 631.

King, John Y., Lansdowne, Pa. Air-feeding devices for stoves, furnaces, and other coal-burning appliances. No. 142,374; May 10; v. 286; p. 409.

Kinney Manufacturing Company, Boston, Mass. Electric motors and parts thereof. No. 142,214; May 3; v. 286; p. 195.

Kirkman & Son, Brooklyn, N. Y. Kosher scouring-powder. No. 141,994; May 3; v. 286; p. 186.

Kirkman & Son, Brooklyn, N. Y. Chemical preparation for the purpose of making hard water soft. No. 143,062; May 24; v. 286; p. 847.

Kirsten, Ernest, Oakland, Calif. Canned fruits and vegetables. No. 142,658; May 17; v. 286; p. 630.

Kitzinger, Harry, & Co., New York, N. Y. Women's, misses', junior, and children's garments. No. 142,678; May 17; v. 286; p. 631.

Kiwanis Club, International, The, Chicago, Ill. Magazine issued monthly. No. 141,995; May 3; v. 286; p. 186.

Klatscher & Lorenz, Inc., New York, N. Y. Leather and canvas belting and machinery packing. No. 141,996; May 3; v. 286; p. 186.

Klein, Joseph L., St. Louis, Mo. Syrup made from a compound of granulated and maple sugar. No. 142,659; May 17; v. 286; p. 630.

Kleinert, I. B., Rubber Company, New York, N. Y. Rubber household aprons, baby-pants, diapers, &c. No. 142,284; May 10; v. 286; p. 404.

Kloss, A. F., Co., Scranton, Pa. Non-alcoholic, non-cereal, maltless beverages and syrups therefor. No. 143,379; May 31; v. 286; p. 1050.

Knight, Daye L., Kansas City, Mo. Medicine containing capsules for vaginal treatment. No. 141,997; May 3; v. 286; p. 186.

Knight & Wall Company, Tampa, Fla. Semipaste paint. No. 143,063; May 24; v. 286; p. 847.

Koetzner, John J., Philadelphia, Pa. Furniture-polish. No. 142,285; May 10; v. 286; p. 404.

Kommel, A., & Son, New York, N. Y. Hosiery and underwear of knitted and textile fabrics. No. 142,660; May 17; v. 286; p. 630.

Korite Products, Inc. (See Chemical Research Company of America.)

Kosofsky, Aaron, New York, N. Y. Dyed fur. No. 143,065; May 24; v. 286; p. 847.

Kramer, Joseph E., Corporation, Chicago, Ill. Candy. No. 142,661; May 17; v. 286; p. 630.

Kranzler, Charles, Farmingdale, N. Y. Automobile-polish. No. 142,286; May 10; v. 286; p. 404.

Krathwohl Mfg. Co., Chicago, Ill. Stepladders. No. 143,380; May 31; v. 286; p. 1050.

Kraus & Co., Inc., Baltimore, Md. Cigars. No. 142,662; May 17; v. 286; p. 630.

Krauss Bros. Lumber Co., New Orleans, La. Wooden shingles. No. 143,381; May 31; v. 286; p. 1050.

Kreem-Eze Company, The, Roseville, Calif. Shaving-cream. No. 142,881; May 17; v. 286; p. 640.

Kre-Mo Butter Agitator Company, Wheeling, W. Va. Milk and butter agitators. No. 141,998; May 3; v. 286; p. 186.

Krohn-Fechheimer Company, The, Cincinnati, Ohio. Shoes made of leather and canvas. No. 142,663; May 17; v. 286; p. 631.

Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 141,999; May 3; v. 286; p. 186.

Kummer, Ed. Limited, Bettlach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements. No. 143,382; May 31; v. 286; p. 1050.

L. G. & S. S. Co., Boston, Mass. Heel-lining repairers. No. 143,253; May 24; v. 286; p. 857.

L. & H. Garment Mfg. Co., Dallas, Tex. Middy-blouses, house-dresses, girls' dresses, boys' suits, bungalow-aprons. No. 142,293; May 10; v. 286; p. 405.

Laclede-Christy Clay Products Company, St. Louis, Mo. Fire bricks and tile. No. 142,000; May 3; v. 286; p. 186.

Laclede-Christy Clay Products Company, St. Louis, Mo. Refractory tiles and bricks for furnaces. No. 142,287; May 10; v. 286; p. 404.

Laclede-Christy Clay Products Company, St. Louis, Mo. Refractory cement for high-temperature uses. No. 143,067; May 24; v. 286; p. 848.

La Fayette Motors Company, Indianapolis, Ind. Automobiles. No. 142,375; May 10; v. 286; p. 409.

Lamoreaux, Arthur L., St. Paul, Minn. Devices in the nature of ouija-boards. No. 142,664; May 17; v. 286; p. 631.

La Nava Cigar Company, Greenville, S. C. Cigars. No. 142,666; May 17; v. 286; p. 631.

Landers, Frary & Clark, New Britain, Conn., and Connersville, Ind. Electrically-driven apparatus. No. 142,376; May 10; v. 286; p. 409.

Landis, Abb L., Nashville, Tenn. Game-board. No. 142,665; May 17; v. 286; p. 631.

Landis, Roland G., Dayton, Ohio. Typewriter-ribbons. No. 142,377; May 10; v. 286; p. 409.

Lang Drug Co., The, Seattle, Wash. Skin-lotion. No. 142,001; May 3; v. 286; p. 186.

Langer, John, Quakertown, Pa. Hair-tonic. No. 142,002; May 3; v. 286; p. 186.

Lanier, Virgil H., Jacksonville, Fla. Fertilizers. No. 142,288; May 10; v. 286; p. 404.

Lanman & Kemp Inc., New York, N. Y. Cod-liver oil. No. 143,383; May 31; v. 286; p. 1050.

Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 142,003; May 3; v. 286; p. 186.

Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 142,215; May 3; v. 286; p. 195.

Laros, R. K., Silk Co., Bethlehem, Pa. Thrown silk. No. 142,004; May 3; v. 286; p. 186.

Lash's Products Co., Chicago, Ill. Maltless beverage. No. 142,005; May 3; v. 286; p. 186.

Lawden Company, The. (See Sucoco Company, assignor.)

Lawrence, A. C., Leather Co., Boston, Mass. Shoe parts. No. 143,384; May 31; v. 286; p. 1050.

Leathaslik Co., New York, N. Y. Leather in the piece. No. 143,385; May 31; v. 286; p. 1050.

Leatherwear Company of America, Inc., Middletown, N. Y. Men's, women's, and children's leather belts. No. 143,252; May 24; v. 286; p. 857.

Leboit & Company, Chicago, Ill. Wedding-rings. No. 143,066; May 24; v. 286; p. 847.

Lebro Manufacturing Co., Pittsburgh, Pa. Insecticide. No. 142,006; May 3; v. 286; p. 186.

Lederer, Herbert B., Co., assignor to Herbert B. Lederer Co., Inc., New York, N. Y. Silk, cotton, &c., piece goods. No. 142,007; May 3; v. 286; p. 186.

Leeco Citrus Growers Association, Fort Myers, Fla. Fresh citrous fruits. No. 142,668; May 17; v. 286; p. 631.

Leedom, Theodore C., Toledo, Ohio, and Oil City, Pa. Evaporated milk. No. 142,008; May 3; v. 286; p. 186.

Legros, Theodore V., Grafton, W. Va. Salve. No. 143,068; May 24; v. 286; p. 848.

Leo, Albert J., Brooklyn, N. Y. Medicine applied externally to the human body to relieve pain. No. 143,070; May 24; v. 286; p. 848.

Les Etablissements Poulenc frères Société Anonyme, Paris, France. Medicinal preparation. No. 143,386; May 31; v. 286; p. 1050.

Le Sieur, Philias E., Boston, Mass. Syrup for coughs, colds, bronchitis, catarrh, &c. No. 143,071; May 24; v. 286; p. 848.

Leukolith G. m. b. H., Saarbrücken, Germany. Mortar, dry mortar, lime, &c. No. 143,387; May 31; v. 286; p. 1050.

Levering Coffee Company, The, Baltimore, Md. Cake-flour. No. 143,388; May 31; v. 286; p. 1050.

Levis, W. Walter, Chicago, Ill. Mouth-wash. No. 142,009; May 3; v. 286; p. 187.

Lever, Victor, Attica, Ind. Cigars. No. 142,669; May 17; v. 286; p. 631.

Lewis, Gerstman, & Co., New York, N. Y. Night-shirts and pajamas. No. 142,544; May 17; v. 286; p. 627.

Liberty Steel Products Co., Inc., New York, N. Y. Tool and gear steel. No. 142,668; May 17; v. 286; p. 631.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 142,670; May 17; v. 286; p. 631.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 142,676; May 17; v. 286; p. 631.

Lilly, Chas. H., Co., The, Seattle, Wash. Fertilizer. No. 142,010; May 3; v. 286; p. 187.

Lindahl, Anders, Stockholm, Sweden. Solder combined with a flux. Nos. 142,671–2; May 17; v. 286; p. 631.

Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Snap-fasteners. No. 142,289; May 10; v. 286; p. 405.

Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Safety-pins. No. 142,290; May 10; v. 286; p. 405.

Lindemann, Adolf D., New York, N. Y. Perfume, sachet, face-powder, rouge, toilet water. No. 142,012; May 3; v. 286; p. 187.

Lindsborg Milling & Elevator Co., The, Lindsborg, Kans. Kansas hard-wheat flour. No. 142,882; May 17; v. 286; p. 640.

Line-A-Time Mfg. Co., Inc., Rochester, N. Y. Monthly publication. No. 143,072; May 24; v. 286; p. 848.

Lipman, Jacob G., New Brunswick, N. J. Fertilizers. No. 142,013; May 3; v. 286; p. 187.

Lippman's, Altoona, Pa. Artificial pearls. No. 142,291; May 10; v. 286; p. 405.

Liquid Solder Company, Fort Worth, Tex. Soldering-flux and radiator-soldering solution. No. 143,073; May 24; v. 286; p. 848.

Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt beverages. Nos. 142,673–4; May 17; v. 286; p. 631.

Lonsdale Company, Providence, R. I. Cotton piece goods. No. 143,254; May 24; v. 286; p. 857.

Loock, Robert C., Baltimore, Md. Clamps for securing tire-rims to wheels of automobiles. No. 143,389; May 31; v. 286; p. 1050.

Loose-Wiles Biscuit Company, Chicago, Ill. Cakes. No. 143,074; May 24; v. 286; p. 848.

Lorraine Hosiery Co., New York, N. Y. Gloves, underwear, and hosiery. No. 142,014; May 3; v. 286; p. 187.

Louisville Wall Paper Company, Inc., Louisville, Ky. Wall-paper. No. 143,390; May 31; v. 286; p. 1050.

Lowrie, Alfred W., Hartford, Conn. Clay compound for external application for various ailments. No. 142,011; May 3; v. 286; p. 187.

Lynch, Chas. E., Shoe Mfg. Co., Inc., The, New York, N. Y. Boots and shoes made of all leather. No. 142,292; May 10; v. 286; p. 405.

McAdam, Charles, Company, Chicago, Ill. Cleaners for removing grease, rust, and other spots from fabrics. No. 142,594; May 17; v. 286; p. 628.

McCarthy, Call J., Chicago, Ill. Artificial flies or bugs for fly-fishing. No. 142,595; May 17; v. 286; p. 629.

McComas & Goodwin, Pomona, Calif. Device designed to supply moist air into the intake-manifold of gasoline-engines. No. 142,596; May 17; v. 286; p. 629.

McCord Manufacturing Company, Inc., Detroit, Mich. Gaskets. No. 143,391; May 31; v. 286; p. 1050.

McCrosky Tool Corporation, Meadville, Pa. Chucks and collets. No. 142,597; May 17; v. 286; p. 629.

McCrosky Tool Corporation, Meadville, Pa. Reamers. No. 142,598; May 17; v. 286; p. 629.

McGraw Tire & Rubber Company, The, East Palestine, Ohio. Rubber tires and tube. No. 142,294; May 10; v. 286; p. 405.

McGuire Medicine Co. Inc., The, Huntington, W. Va. General tonic. No. 142,295; May 10; v. 286; p. 405.

McGuire Medicine Co. Inc., The, Hunington, W. Va. Laxative tonic. No. 142,296; May 10; v. 286; p. 405.

McManes, Joseph B., Columbus, Ohio. Medicine in tablet and powder form for nervous and sick headache. No. 142,378; May 10; v. 286; p. 409.

Mackall, J. H., Co., The, Pittsburgh, Pa. Crackers, cakes, candies. No. 142,015; May 3; v. 286; p. 187.

Macbeth, William, Inc., New York, N. Y. Publications usually issued several times a year. No. 142,600; May 17; v. 286; p. 629.

MacX Feed Milling Co., Clinton, Iowa. Stock feed. No. 142,524; May 17; v. 286; p. 626.

Maddock's, Thomas Sons Co., Trenton, N. J. Plumbers' supplies and bathroom trimmings and fittings, &c. No. 142,794; May 17; v. 286; p. 634.

Madison Tire and Rubber Company, Inc., Buffalo, N. Y. Rubber tires. No. 142,297; May 10; v. 286; p. 405.

Magic Auto Supply Company, Hartford, Conn. Automobile-tire-repair outfits. No. 142,601; May 17; v. 286; p. 629.

Magill & Co., Fargo, N. D. Field-seed and seed-grain. No. 143,255; May 24; v. 286; p. 857.

Malbohm Motors Company, The, Sandusky, Ohio. Automobiles. No. 142,298; May 10; v. 286; p. 405.

Main Belting Company, Philadelphia, Pa. Machinery belting. No. 142,602; May 17; v. 286; p. 629.

Main Paper Stock Co., Inc., New York, N. Y. Writing and wrapping paper, mailing and correspondence envelops, and cardboard. No. 143,392; May 31; v. 286; p. 1050.

Malcomb & Malcomb, Ashland, Ohio. Leak-curing compound for water-circulating systems. No. 143,393; May 31; v. 286; p. 1050.

Mallinson, H. R., & Co., New York, N. Y. Silk piece goods. Nos. 142,883–4; May 17; v. 286; p. 640.

Malm, William E., Cleveland, Ohio. Adhesive paste. No. 142,603; May 17; v. 286; p. 629.

Malnight, John V., Jackson, Mich. Egg substitute. No. 143,394; May 31; v. 286; p. 1050.

Malouf, E. I., Company, The, Salt Lake City, Utah. Windshield-cleaners of the squeegee type. No. 142,604; May 17; v. 286; p. 629.

Malone, Edgar E., Cason, Tex. Pharmaceutical preparations. No. 142,016; May 3; v. 286; p. 187.

Manchester, Abram D., Providence, R. I. Natural, artificial, and imitation pearls. No. 142,299; May 10; v. 286; p. 405.

Mann, Wm. H., Memphis, Tenn. Wheat-flour. No. 143,395; May 31; v. 286; p. 1050.

Manning Abrasive Co., Inc., Troy, N. Y. Abrasives coated on cloth or paper, or both. Nos. 142,605–6; May 17; v. 286; p. 629.

Mansell-Phayre, John, West Cowes, Isle of Wight, England. Window-stands made of wood for displaying goods. No. 142,607; May 17; v. 286; p. 629.

Mansert, Dr. Otto, San Francisco, Calif. Table beverage composed of malt and figs and flavored with coffee. No. 143,080; May 24; v. 286; p. 848.

Marcus-Casper Corp., Philadelphia, Pa. Dress and negligée shirts. No. 143,075; May 24; v. 286; p. 848.

Marden, Orth & Hastings Corporation, New York, N. Y.; Boston, Mass.; Chicago, Ill.; Philadelphia, Pa.; Cleveland, Ohio; Seattle, Wash., and San Francisco, Calif. Dyes and dyestuffs. No. 143,076; May 24; v. 286; p. 848.

Mardon, Frederick S., New York, N. Y. Medicinal preparations. No. 143,077; May 24; v. 286; p. 848.

Marietta Refining Co., The, Marietta, Ohio. Dyestuffs—namely, malachite-green, &c. No. 143,078; May 24; v. 286; p. 848.

Marion Malleable Iron Works, The, Marion, Ind. Malleable-iron castings. No. 142,301; May 10; v. 286; p. 405.

Marks, Ring & Dubin, Inc., New York, N. Y. Yellings, nettings, &c., in the piece. No. 142,300; May 10; v. 286; p. 405.

Maroney, John C., Cincinnati, Ohio. Beef, iron, and wine tonic. No. 143,396; May 31; v. 286; p. 1050.

Marsh Furniture Company, High Point, N. C. Kitchen-cabinets. No. 142,608; May 17; v. 286; p. 629.

Marshall Canning Co., Marshalltown, Iowa. Breakfast food. No. 142,216; May 3; v. 286; p. 196.

Marshall Field & Company, Chicago, Ill. Cotton-bats. Nos. 142,609–11; May 17; v. 286; p. 629.

Marshall Field & Company, Chicago, Ill. Cotton-bats. No. 143,397; May 31; v. 286; p. 1051.

Marshall Manufacturing Company, Omaha, Nebr. Fruit-pitting machine. No. 142,613; May 17; v. 286; p. 629.

Marshall-Wells Company, Duluth, Minn. Children's sleds and coaster-wagons. No. 142,017; May 3; v. 286; p. 187.

Marshall-Wells Company, Duluth, Minn. Clocks and watches. No. 142,612; May 17; v. 286; p. 629.

Martin, James F., Columbus, Ohio. Liquid tonic used in the treatment of nervous disorders and insomnia. No. 143,079; May 24; v. 286; p. 848.

Marvel Eye Medicine Co., New York, N. Y. Liquid eye medicine. No. 142,018; May 3; v. 286; p. 187.

Mason Box Company, The, Attleboro Falls, Mass. Mailing-boxes. No. 142,217; May 3; v. 286; p. 196.

Massasoit Manufacturing Company, Fall River, Mass. Meps. No. 142,614; May 17; v. 286; p. 629.

Master Tire and Rubber Company, The, Dayton, Ohio. Tires made wholly or partly of rubber or having rubber incorporated therewith. No. 142,615; May 17; v. 286; p. 629.

Mazer Acoustile Company, Philadelphia, Pa. Acoustic appliances. No. 142,019; May 3; v. 286; p. 187.

Mead Cycle Company, Chicago, Ill. Rubber bicycle-tires. No. 142,020; May 3; v. 286; p. 187.

Menley & James Limited, New York, N. Y. Prophylactic and iodin preparations. No. 142,021; May 3; v. 286; p. 187.

Merck, Horace R., Asheville, N. C. Medicinal preparation for coughs, colds, &c. No. 142,022; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Hydrastis and iron compound tonic. No. 142,023; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Solution of hydrastin. No. 142,024; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Female-tonic. No. 142,025; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Antiseptic, stimulant, and alterative in the treatment of disordered conditions of the uterus and vagina. No. 142,026; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Chocolate syrup of quinine. No. 142,027; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Liquid compound of formaldehyde, &c. No. 142,028; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Bismuth compound used in diarrhea or various intestinal disorders. No. 142,029; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Syrup for acute and chronic bronchitis, coughs, and colds. No. 142,030; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Sodium and lithium compound salt used as a laxative, cathartic, and cholagogue. No. 142,031; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Antiseptic vaginal suppositories. No. 142,032; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Cascara and chionanthus compound. No. 142,033; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Cordial extract used in nervousness, &c. No. 142,034; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Capsules of ergotin and apiol used as an emmenagogue. No. 142,035; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Tablets for local vaginal and uterine antisepsis. No. 142,036; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Corn-silk and saw-palmetto compound used in urinary and kidney disorders. No. 142,037; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Callsaya and pepsin compound used in acute and chronic indigestion and as a tonic. No. 142,038; May 3; v. 286; p. 187.

Merrell, William S., Company, The, Cincinnati, Ohio. Castor-oil, emulsified. No. 142,039; May 3; v. 286; p. 188.

Merrell, William S., Company, The, Cincinnati, Ohio. Castanea compound for use in coughs. No. 142,040; May 3; v. 286; p. 188.

Merrell, William S., Company, The, Cincinnati, Ohio. Stillingia and lobelia compound used in coughs, colds, &c. No. 143,081; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Effervescent salt used in migraine, auto-intoxication, and related disorders. No. 143,082; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Sourwood compound, a diuretic cordial used in urinary and kidney disorders. No. 143,083; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Compound of phytolacca used in the treatment of sore throat, tonsilitis, &c. No. 143,084; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Medicinal preparations. No. 143,085; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Compound of hypophosphites used as a tonic. No. 143,086; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Medicinal preparations. No. 143,087; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Iron-salicylate compound for administration in rheumatic affections and as a tonic. No. 143,088; May 24; v. 286; p. 848.

Merrell, William S., Company, The, Cincinnati, Ohio. Compound of bromids used as a nerve sedative. No. 143,089; May 24; v. 286; p. 848.

Metropolitan Sewing Machine Corporation, Nyack, N. Y. Silks, satins, cottons, linens, &c., in the piece. No. 143,256; May 24; v. 286; p. 857.

Meyer & Rasmussen, Inc., New York, N. Y. Twines made of cotton, silk, ramie, &c., used in textile-weaving. No. 143,090; May 24; v. 286; p. 848.

Michigan Spark Plug Co., The, Detroit, Mich. Spark-plugs. No. 143,398; May 31; v. 286; p. 1051.

Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 142,302; May 10; v. 286; p. 405.

Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 143,399; May 31; v. 286; p. 1051.

Midland Flour Milling Company, The, Kansas City, Mo. Self-rising flour. Nos. 142,303–5; May 10; v. 286; p. 405.

Mid-West Box Company, Chicago, Ill. Wrappers. No. 142,616; May 17; v. 286; p. 629.

Miesenhelder Bros., Palestine, Ill. Wheat-flour. No. 142,041; May 3; v. 286; p. 188.

Migel, J. A., Inc., New York, N. Y. Hairpins. No. 142,042; May 3; v. 286; p. 188.

Migel, J. A. Inc., New York, N. Y. Toilet preparations. No. 142,885; May 17; v. 286; p. 640.

Migel, J. A., Inc., New York, N. Y. Clothing. No. 142,886; May 17; v. 286; p. 640.

Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 142,887; May 17; v. 286; p. 640.

Miller, Howard P., Cincinnati, Ohio. Non-alcoholic, malt-less beverage made of flavored and colored sugar-syrup. No. 142,043; May 3; v. 286; p. 188.

Miller, I., and Sons, Inc., Brooklyn, N. Y. Shoes for women, misses, and children. No. 142,044; May 3; v. 286; p. 188.

Miller, I., and Sons, Inc., Brooklyn, N. Y. Shoes made of leather, fabrics, and cloth, combinations, &c. No. 143,094; May 24; v. 286; p. 848.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Textile piece goods. Nos. 142,045–8; May 3; v. 286; p. 188.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Silk goods and mixtures of silk and linen in the piece. No. 143,092; May 24; v. 286; p. 848.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Crepe in the piece made of silk and a mixture of silk and cotton. No. 143,093; May 24; v. 286; p. 848.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen and mixtures of cotton and silk and linen and silk piece goods. No. 143,401; May 31; v. 286; p. 1051.

Miller, Louise, West Somerville, Mass. Prevention of excessive perspiration. No. 142,049; May 3; v. 286; p. 188.

Miller-McConnel Grain Co., Kansas City, Kans. Stock feed. No. 143,400; May 31; v. 286; p. 1051.

Miller Manufacturing Company, The, Lincoln, Nebr. Preparation for the treatment and removal of warts and moles. No. 143,520; May 31; v. 286; p. 1055.

Miller, Reynhold, Las Vegas, Nev. Soap. No. 142,050; May 3; v. 286; p. 188.

Miller, Robert E., Inc., New York, N. Y. Rubber heels. No. 142,379; May 10; v. 286; p. 409.

Miller Rubber Company, The, Akron, Ohio. Articles of clothing. No. 142,380; May 10; v. 286; p. 409.

Miller Rubber Company, The, Akron, Ohio. Rubber sponges. No. 143,091; May 24; v. 286; p. 848.

Miller, Wesley L., Toledo, Ohio. Paints and painters' materials. No. 142,051; May 3; v. 286; p. 188.

Millers Falls Paper Company, Millers Falls, Mass. Printing and writing papers. No. 142,888; May 17; v. 286; p. 640.

Mills-Fulford, Ltd., Coventry, England. Side fore and trailer cars for motorcycles and cycles. No. 142,053; May 3; v. 286; p. 188.

Mills, May, St. Paul, Minn. Candies, ice-cream, and pastry. No. 142,052; May 3; v. 286; p. 188.

Milwaukee Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 142,618; May 17; v. 286; p. 629.

Milwaukee Manufacturing Company, Milwaukee, Wis. Electric heaters for liquids. No. 142,619; May 17; v. 286; p. 629.

Milwaukee Seed Co., Milwaukee, Wis. Field, clover, and grass seed. No. 143,095; May 24; v. 286; p. 848.

Milwaukee Woven Wire Works, Milwaukee, Wis. Wire bed and chair mattress and cushion springs. No. 143,096; May 24; v. 286; p. 849.

Miranda Limited, London, England. Cigarettes. No. 142,620; May 17; v. 286; p. 629.

Mississippi Valley Tanning Co., St. Louis, Mo. Leather. No. 142,054; May 3; v. 286; p. 188.

Misto Manufacturing Co., Kokomo, Ind. Salve. No. 143,097; May 24; v. 286; p. 849.

Mitchell Vance Co., Inc., New York, N. Y. Electric-lighting fixtures. No. 143,503; May 31; v. 286; p. 1054.

Modoc Company, The, Fernwood, Pa. Detergent car-cleaner, soap powder, powdered soap. No. 143,402; May 31; v. 286; p. 1051.

Monarch Foundry Company, Stockton, Calif. Pumps and pumping plants and parts thereof. No. 142,055; May 3; v. 286; p. 188.

Monsheimer and Jacobs, New York, N. Y. Infants' and children's white dresses, undergarments, &c. No. 142,056; May 3; v. 286; p. 188.

Moore Company, The, Muncie, Ind. Wire fabric for supporting mattresses and cushions. No. 142,621; May 17; v. 286; p. 629.

Moore, Joseph H., Providence, R. I. Preparation for tinting the cheeks and a pomade for the hair in ointment and liquid form. No. 142,622; May 17; v. 286; p. 629.

Moore, Joseph H., Providence, R. I. Toilet and medicinal preparations. No. 142,623; May 17; v. 286; p. 629.

Moore, Warner & Co., Richmond, Va. Corn-flour. No. 143,403; May 31; v. 286; p. 1051.

Moreland-Jones Company, Americus, Ga. Wheat-flour. No. 142,624; May 17; v. 286; p. 629.

Morris, Emil, Detroit, Mich. Razors. No. 142,625; May 17; v. 286; p. 629.

Morris Ovson Company, Chicago, Ill. Frozen eggs. No. 143,404; May 31; v. 286; p. 1051.

Morse, A. G., Co., Chicago, Ill. Candy. No. 142,626; May 17; v. 286; p. 629.

Morse & Burt Co., Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combination. No. 143,405; May 31; v. 286; p. 1051.

Moscheuross, Marie, Oakland, Calif. Hair tonic and restorer. No. 143,406; May 31; v. 286; p. 1051.

Mosley, Virginia, Des Moines, Iowa. Toilet preparations. No. 143,521; May 31; v. 286; p. 1055.

Moultrie, Labania P., Wildwood, N. J. Compound for the treatment of the scalp and hair-tonic. No. 143,099; May 24; v. 286; p. 849.

Moysen, Rose, New York, N. Y. Ointment for treatment and removal of corns and callouses. No. 142,057; May 3; v. 286; p. 188.

Mu-Col Company, The, Buffalo, N. Y. Soap. No. 143,407; May 31; v. 286; p. 1051.

Mulhens & Kropff, Incorporated, New York, N. Y. Antiseptic mouth-wash and scalp remedy. No. 143,100; May 24; v. 286; p. 849.

Mulhens & Kropff, Incorporated, New York, N. Y. Medicated and shaving soaps. No. 143,408; May 31; v. 286; p. 1051.

Mundial Trading Co. Inc., New York, N. Y. Liquid preparation for healing punctures and closing holes in pneumatic tires. No. 142,058; May 3; v. 286; p. 188.

Munroe, Alexandra, Los Angeles, Calif. Women's and children's dresses. No. 143,101; May 24; v. 286; p. 849.

Murphy, Charles E., Chillicothe, Mo. Cleaning fluid for painted and varnished automobiles, pianos, and furniture-surfaces. No. 143,409; May 31; v. 286; p. 1051.

Murphy, E. J., Company, Inc., Washington, D. C. Ready-mixed paints, colored varnishes, polishing-oil, &c. No. 142,627; May 17; v. 286; p. 629.

Murphy, Howard M., Philadelphia, Pa. Preparation for the treatment of gall-stones. No. 143,102; May 24; v. 286; p. 849.

Murray, Frank E., Chicago, Ill. Annual directory and reference-book covering the mineral-oil industry. No. 143,103; May 24; v. 286; p. 849.

Muskegon Motor Specialties Company, Muskegon, Mich. Cam-shafts. No. 143,257; May 24; v. 286; p. 857.

Naamlooze Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Lubricating oils and greases. No. 143,104; May 24; v. 286; p. 849.

Namiot, Charles B., New York, N. Y. Finger-rings. No. 143,105; May 24; v. 286; p. 849.

Napier, Risden B., Rockingham, N. C. Preparation for the treatment of headache, neuralgia, colds, la grippe, &c. No. 143,106; May 24; v. 286; p. 849.

Naschek, Samuel K., New York, N. Y. Dress-shields. No. 142,059; May 3; v. 286; p. 188.

Nash, C. A., & Son, Inc., Norfolk, Va. Wall-board and roofing in rolls, &c. No. 142,060; May 3; v. 286; p. 188.

Nash, C. A., & Son, Inc., Norfolk, Va. Locks and latches. No. 142,630; May 17; v. 286; p. 630.

Nash, C. A., & Son, Inc., Norfolk, Va. Paints and painters' materials. No. 142,631; May 17; v. 286; p. 630.

Nash, C. A., & Son, Inc., Norfolk, Va. Wall-board and roofing in rolls and ready cut for direct application. No. 143,410; May 31; v. 286; p. 1051.

Nash Company, The, St. Louis, Mo. Spark-intensifiers and ignition-detectors. No. 142,629; May 17; v. 286; p. 630.

Nashville Roller Mills, Nashville, Tenn. Self-rising wheat-flour. No. 142,061; May 3; v. 286; p. 188.

National Aniline & Chemical Company Incorporated, New York, N. Y. Food-colors. No. 143,107; May 24; v. 286; p. 849.

National Automobile Dealers Ass'n, Chicago, Ill., and St. Louis, Mo. Printed books, pamphlets, circulars. No. 142,062; May 3; v. 286; p. 188.

National Bank of Commerce in New York, New York, N. Y. Monthly periodical. No. 142,306; May 10; v. 286; p. 405.

National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 143,108; May 24; v. 286; p. 849.

National Carbon Company, Inc., New York, N. Y. Arc-light carbons. No. 142,381; May 10; v. 286; p. 409.

National Cloak & Suit Co., New York, N. Y. Ladies', misses', boys', and men's shoes and oxfords. No. 142,632; May 17; v. 286; p. 630.

National Fly Catcher Company Limited, Montreal, Quebec, Canada. Fly papers, traps and catchers of all kinds. No. 142,633; May 17; v. 286; p. 630.

National Hair Goods Co., Chicago, Ill. Hair-nets. No. 143,258; May 24; v. 286; p. 857.

National Magnesite Products Corporation, New York, N. Y. Paints, paint enamels, and finishes of a paint nature. No. 142,634; May 17; v. 286; p. 630.

National Mercantile Corporation of California, San Francisco, Calif., assignor to Matsumoto Trading Company Inc. Silks in the bulk and in the piece. No. 143,109; May 24; v. 286; p. 849.

National Pharmacy Co., Oakland, Calif. Medicinal preparation. No. 143,411; May 31; v. 286; p. 1051.

National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 142,063; May 3; v. 286; p. 188.

National Ring Traveler Co., Providence, R. I. Shoe and clothing buttons. No. 142,635; May 17; v. 286; p. 630.

National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 143,110; May 24; v. 286; p. 849.

National Rubber & Specialties Co., The, Cincinnati, Ohio. Adhesives, compounds, cements, &c. No. 142,064; May 3; v. 286; p. 188.

National Sales Company, The, assignors to J. W. Sutherland, Chicago, Ill. Tire tubings and casings made of rubber. No. 142,065; May 3; v. 286; p. 188.

National Sales Company, The, Memphis, Tenn. Inner liners, tubes, boots, patches, and flaps. No. 142,066; May 3; v. 286; p. 188.

National Tank and Steel Company, Wichita Falls, Tex. Tanks. No. 143,111; May 24; v. 286; p. 849.

National Weather-Proof Paint Co., Milwaukee, Wis. Waterproof dressing. No. 142,382; May 10; v. 286; p. 409.

Nature Polish Company, Inc., The, Seattle, Wash. Cleanser for automobiles, pianos, brass, &c. No. 142,067; May 3; v. 286; p. 188.

Neble, Arnold, *et al.* (See Raymond, Le Roy, assignor.)

Neble & Company, Inc., New York, N. Y. Soaps. No. 143,412; May 31; v. 286; p. 1051.

Nebraska Wall Paper Company, Omaha, Nebr. Wall-paper. No. 143,413; May 31; v. 286; p. 1051.

Need-No-Hone Company, Rock Island, Ill. Razor-strop dressing. No. 142,218; May 3; v. 286; p. 196.

Neenah Paper Company, Neenah, Wis. Ledger-paper. No. 142,636; May 17; v. 286; p. 630.

Neil Brothers Grain Co., Spokane, Wash. Scratch food, chick food, mixed grain feeds for poultry, &c. No. 143,112; May 24; v. 286; p. 849.

Nelin, Maans N., Rockford, Ill. Chocolate peanut-candy confection. No. 142,068; May 3; v. 286; p. 188.

Nelson & Company, Oviedo, Fla. Fresh citrus fruits. Nos. 143,113–4; May 24; v. 286; p. 849.

Nelson-Eisemann-Quist Co., The, Chicago, Ill. Carbon-paper and typewriter-ribbons. No. 142,637; May 17; v. 286; p. 630.

Nelson, M. L., Furniture Co., Chicago, Ill. Furniture. No. 143,115; May 24; v. 286; p. 849.

Nelson, William E., San Antonio, Tex. Concrete building-blocks. No. 142,638; May 17; v. 286; p. 630.

Neslo Dry Cleaner Manufacturing Company, The, Green Bay, Wis. Apparatus for cleaning garments by the dry-cleaning process. No. 142,639; May 17; v. 286; p. 630.

Nessler, Charles, New York, N. Y. Electric permanent-hair-waving device. No. 142,219; May 3; v. 286; p. 196.

Neu-Pal Manufacturing Company, New York, N. Y. Overcoats, coats, vests, trousers, and pants. No. 143,116; May 24; v. 286; p. 849.

New Castle Rubber Co., New Castle, Pa. Pneumatic-tire casings made of rubber for automobiles. No. 142,307; May 10; v. 286; p. 405.

New England Lime Co., Danbury, Conn. Building-lime. No. 142,308; May 10; v. 286; p. 405.

New Era Shirt Co., St. Louis, Mo. Clothing—namely, men's and boys' dress, negligée, and work shirts. No. 143,117; May 24; v. 286; p. 849.

New Gold Pharmacal Co., Chicago, Ill. Face-cream. No. 143,118; May 24; v. 286; p. 849.

New Orleans Paint & Color Company, Inc., New Orleans, La. Dry, paste, and ready-mixed paints and varnishes. No. 142,069; May 3; v. 286; p. 188.
New York Merchandise Company, New York, N. Y. Safety-pins. No. 142,070; May 3; v. 286; p. 188.
News Syndicate Co, Inc., New York, N. Y. Newspapers. No. 143,119; May 24; v. 286; p. 849.
Nicholson File Company, Providence, R. I. Files and rasps, holders and handles therefor. No. 142,640; May 17; v. 286; p. 630.
Nielson, Henry L., New York, N. Y. Signs made of wood and metal. No. 143,414; May 31; v. 286; p. 1051.
Nigro Nicholas, Dallas, Tex. Foods. No. 142,071; May 3; v. 286; p. 189.
Nishiguchi, Sumizo, Kure, Hiroshima, Japan. Medicines and pharmaceutical preparations. No. 143,120; May 24; v. 286; p. 849.
Noble & Westbrook Manufacturing Company, East Hartford and Hartford, Conn. Marking and stamping machines. No. 142,641; May 17; v. 286; p. 630.
Nocatee Citrus Growers' Association, Nocatee, Fla. Fresh citrus fruits. No. 143,121; May 24; v. 286; p. 849.
Nonotuck Silk Company, Florence, Mass. Cotton and silk thread and yarn. No. 142,309; May 10; v. 286; p. 405.
Nonotuck Silk Company, Florence, Mass. Silk and embroidery threads and cottons. No. 143,415; May 31; v. 286; p. 1051.
Northam Warren Corporation. (See Cutex Corporation.)
Northern Pickle Company, Tacoma, Wash. Condiments, chow-chow, mustard, and table sauce. No. 142,072; May 3; v. 286; p. 189.
Northern Pickle Company, Tacoma, Wash. Apple cider. No. 142,642; May 17; v. 286; p. 630.
Northey Manufacturing Company, Waterloo, Iowa. Refrigerators and cooling-rooms. No. 143,416; May 31; v. 286; p. 1051.
Northwestern Oil Company, Fargo, N. D. Lubricating oils and greases. No. 142,073; May 3; v. 286; p. 189.
Northwestern Soap Manufacturing Company, Lewiston, Mont. Soaps. No. 142,643; May 17; v. 286; p. 630.
Norton Company, Worcester, Mass. Grinding-wheels and abrasive stones. No. 142,644; May 17; v. 286; p. 630.
Norton, Walter F., assignor to The Crest Net Company, New York, N. Y. Hair-nets. No. 143,417; May 31; v. 286; p. 1051.
Norton, Willis, & Co., North Topeka, Kans. Wheat-flour. No. 142,310; May 10; v. 286; p. 405.
Novelty Products Company, The, Berkeley, Calif. Toy vehicles. No. 142,645; May 17; v. 286; p. 630.
Nu-Fab Products Corporation, New York, N. Y. Sueded fabric gloves. No. 142,311; May 10; v. 286; p. 405.
Nugent, W. W., & Co., Chicago, Ill. Oil-filters. No. 142,646; May 17; v. 286; p. 630.
Nunzio Stallone Bros., New York, N. Y. Olive-oil. No. 142,628; May 17; v. 286; p. 629.
Nu-Way Printing & Engraving Shop, St. Louis, Mo. Engraved, embossed, and printed greeting-cards, pamphlets, &c. No. 142,074; May 3; v. 286; p. 189.
Oakley, Theophield D., Chicago, Ill. Collection-envelops. No. 142,679; May 17; v. 286; p. 631.
O'Brien & Co., Dublin, Ireland. Mineral and aerated waters, natural and artificial, including ginger-beer. No. 142,075; May 3; v. 286; p. 189.
O'Brien & Co., Dublin, Ireland. Wines. No. 142,076; May 3; v. 286; p. 189.
Odelsa Mfg. Co., Oklahoma, Okla. Candles. No. 142,617; May 17; v. 286; p. 629.
Oehlschlaeger, Edward G., New York, N. Y. Hair-nets. No. 142,680; May 17; v. 286; p. 631.
Ogar, Walter J., Dorchester, Mass. Dyspepsia treatment in tablet or powdered form. No. 142,077; May 3; v. 286; p. 189.
Ohio Creamery Company, Youngstown, Ohio. Butter. No. 142,312; May 10; v. 286; p. 405.
Ohio Dairy Co., The, Toledo, Ohio. Butter substitute. No. 142,681; May 17; v. 286; p. 631.
Okay Extract Company, New York, N. Y. Fruit and vegetable extracts and flavors. No. 143,122; May 24; v. 286; p. 849.
Oneida Motor Truck Co., Green Bay, Wis. Motor-vehicles. No. 142,682; May 17; v. 286; p. 631.
O-Pee-Chee Gum Co. Limited, London, Ontario, Canada. Peppermint-flavored candy. No. 143,123; May 24; v. 286; p. 849.
Oppenheim, Oberndorf and Company, Inc., Baltimore, Md. Undershirts, union-suits, drawers, &c. Nos. 142,078–9; May 3; v. 286; p. 189.
Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Men's athletic underwear made of textile fabric. No. 142,683; May 17; v. 286; p. 631.
Oppenheimer, Joseph S., New York, N. Y. Bungalow-aprons, house-dresses, children's dresses, &c. Nos. 142,313–4; May 10; v. 286; p. 405.
Orange County Milk Association, New York, N. Y. Milk, cream, condensed milk, buttermilk. No. 143,124; May 24; v. 286; p. 849.
Oregon Brass Works, Portland, Oreg. Bushings. No. 142,125; May 24; v. 286; p. 849.
Orenstein Trunk Company, Newark, N. J. Trunks. No. 142,684; May 17; v. 286; p. 631.
Oversea Export Co., Ltd., The, Christiania, Norway. Brisling and sild. (Frequently known generically as sardines.) No. 142,685; May 17; v. 286; p. 631.
Owens Bottle Company, The, Toledo, Ohio. Glass bottles, jars, and jugs. No. 142,220; May 3; v. 286; p. 196.
Owl Drug Company, The, San Francisco, Calif. Straw-hat dye. No. 142,080; May 3; v. 286; p. 189.
Ozark Cider & Vinegar Company, The, Rogers, Ark. Cider vinegar. No. 142,889; May 17; v. 286; p. 640.
Pabst & Company, Inc., Philadelphia, Pa. Piece goods of window-shade cloths of sized and painted fabric. No. 142,686; May 17; v. 286; p. 631.
Pabst & Company, Inc., Philadelphia, Pa. Piece goods of window-shade cloths. No. 143,127; May 24; v. 286; p. 850.
Pacific Coast Glass Works, San Francisco, Calif. Glass jars and bottles. No. 143,418; May 31; v. 286; p. 1051.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 142,383–4; May 10; v. 286; pp. 409–10.
Page Belting Company, Concord, N. H. Leather belting. Nos. 142,687–90; May 17; v. 286; p. 631.
Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 142,691; May 17; v. 286; p. 631.
Page Belting Company, Concord, N. H. Leather belting. No. 142,692; May 17; v. 286; p. 631.
Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 142,693; May 17; v. 286; p. 631.
Page Belting Company, Concord, N. H. Leather belting. No. 142,694; May 17; v. 286; p. 631.
Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 142,695; May 17; v. 286; p. 631.
Palmer Candy Company, Sioux City, Iowa. Milk-chocolate candy. No. 142,315; May 10; v. 286; p. 405.
Palmer, J. Frederick Mfg. Co., Milwaukee, Wis. Toilet-paper fixtures. No. 142,860; May 17; v. 286; p. 638.
Palmer's Limited, Montreal, Quebec, Canada. Perfumes, toilet waters, talcum powders, &c. No. 143,419; May 31; v. 286; p. 1051.
Pan American Chemical Company, Altoona, Pa. Medicine for stomach and intestinal disorders. No. 143,129; May 24; v. 286; p. 850.
Pan-American Pharmaceutical Co, Ltd., Santa Rita, N. Mex. Medicinal plaster for the treatment of headaches and neuralgia. No. 143,128; May 24; v. 286; p. 850.
Pandolfo, Samuel C., St. Cloud, Minn. Automobiles. No. 143,420; May 31; v. 286; p. 1051.
Pangborn Corporation, Hagerstown, Md. Machinery and tools. No. 143,421; May 31; v. 286; p. 1051.
Papendick Bakery Co., St. Louis, Mo. Bread. No. 142,890; May 17; v. 286; p. 640.
Parfumerie Lourmay, Inc., New York, N. Y. Soap. Nos. 142,696–9; May 17; v. 286; pp. 631–2.
Paris Toilet Company, The, Paris, France. Toilet preparations—namely, face-powder, rouge, talcum powder, &c. No. 143,130; May 24; v. 286; p. 850.
Parisian Cloak Co., Kansas City, Mo. Corsets. No. 142,740; May 17; v. 286; p. 633.
Parker, George H., Stamford, Conn. Game-boards and pieces therefor. No. 142,700; May 17; v. 286; p. 632.
Parrott, McIntyre & Co., Chicago, Ill. Men's hats. No. 142,701; May 17; v. 286; p. 632.
Partridge and Anderson Company, Chicago, Ill. Electrotypes, stereotypes, and matrices. No. 142,081; May 3; v. 286; p. 189.
Patch, E. L., Co., The, Stoneham, Mass. Shampoo. No. 142,082; May 3; v. 286; p. 189.
Patrick & Co., Duluth, Minn. Articles of clothing. No. 142,385; May 10; v. 286; p. 410.
Patrick, F. A., & Co., Duluth, Minn. Hosiery. No. 142,083; May 3; v. 286; p. 189.
Patrick, F. A., & Co., Duluth, Minn. Textile fabrics and piece goods of wool, cotton, linen, and silk. No. 142,221; May 3; v. 286; p. 196.
Patrick, F. A., & Co., Duluth, Minn. Bureau and table scarfs, fabric blankets, mats, &c. No. 142,891; May 17; v. 286; p. 641.
Patrick, F. A., & Co., Duluth, Minn. Clothing. No. 143,522; May 31; v. 486; p. 1055.
Pattern-Sargent Company, The, Cleveland, Ohio. Paints and painters' materials. No. 142,702; May 17; v. 286; p. 632.
Peacock Productions, Inc., Tulsa, Okla. Moving-picture films. No. 143,131; May 24; v. 286; p. 850.
Peanut Products Corporation, Tacoma, Wash. Peanut-butter. No. 142,703; May 7; v. 286; p. 632.
Pearl Cotton Mills, Durham, N. C. Cotton goods in the piece. No. 143,259; May 24; v. 286; p. 858.
Peck & Co., New York, N. Y. Ladies' outer garments—viz., coats, suits, dresses, &c. No. 142,084; May 3; v. 286; p. 189.
Pelton & Pelton, Chicago, Ill. Bath-robes and bathing-suits. No. 142,085; May 3; v. 286; p. 189.
Penick & Ford, Ltd., Incorporated, New Orleans, La. Corn-starch. No. 142,222; May 3; v. 286; p. 196.
Penn Rivet Corporation, Philadelphia, Pa. Safety-pins No. 143,422; May 31; v. 286; p. 1051.
Penn Rivet Corporation, Philadelphia, Pa. Toilet-pins. No. 143,423; May 31; v. 286; p. 1051.
Penn Rivet Corporation, Philadelphia, Pa. Hairpins. No. 143,424; May 31; v. 286; p. 1051.
Penn Rivet Corporation, Philadelphia, Pa. Skirt-belting. No. 143,425; May 31; v. 286; p. 1051.
Penn Rivet Corporation, Philadelphia, Pa. Barrettes. No. 143,426; May 31; v. 286; p. 1051.
Pennsylvania Knitting Mills Company, Spring Grove, Pa. Boys' and misses' hosiery. No. 143,132; May 24; v. 286; p. 850.
Pennsylvania Refining Company, Philadelphia, Pa. Pitch, rosins, and tar. No. 142,086; May 3; v. 286; p. 189.

Pensiar Company, The, Detroit, Mich. Cold-cream and appetizing-tonic. No. 143,133; May 24; v. 286; p. 850.
Penton Publishing Company, The, Cleveland, Ohio. Monthly technical publication. No. 143,427; May 31; v. 286; p. 1051.
Peoples Gas By-Products Corporation, Chicago, Ill. Benzol, toluol, xylol, naphthalene, and phenol. No. 142,087; May 3; v. 286; p. 189.
Pepsinic Seltzer Company, Worcester, Mass. Effervescing salt for certain named ailments. No. 142,386; May 10; v. 286; p. 410.
Perkins, Benjamin J., Memphis, Tenn. Medicine used in the treatment of dyspepsia. No. 143,134; May 24; v. 286; p. 850.
Perkins, Floyd R., Chicago, Ill. Chewing-gum. No. 142,739; May 17; v. 286; p. 633.
Perla Watch Co., Straub & Co., Bienne, Switzerland. Watches, clocks, chronometers, &c. No. 143,428; May 31; v. 286; p. 1051.
Peristein, Louis, New York, N. Y. Men's and young men's overcoats and suits. No. 142,704; May 17; v. 286; p. 632.
Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk-chocolate. No. 142,387; May 10; v. 286; p. 410.
Peterman Wm., Inc., Passaic, N. J., and New York, N. Y. Insecticide for killing insects on poultry, &c. No. 142,088; May 3; v. 286; p. 189.
Peterson, Harry W., & Company, Palmetto, Fla. Fresh citrus fruits. No. 142,705; May 17; v. 286; p. 632.
Pfeffer, Genevieve, San Jose, Calif. Sweetmeats. No. 142,089; May 3; v. 286; p. 189.
Pfizer, Chas., & Co., Inc., New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 142,090; May 3; v. 286; p. 189.
Phenix Cheese Company, New York, N. Y. Cheese, butter, and eggs. No. 142,711; May 17; v. 286; p. 632.
Philadelphia Shoe Repairing Company, Inc., Philadelphia, Pa. Leather and fabric shoes and insoles and heels. No. 142,317; May 10; v. 286; p. 405.
Philippe, Louis, New York, N. Y. Perfumes, cosmetics, and skin-lotions. No. 143,135; May 24; v. 286; p. 850.
Philippino, Salvatore C., State College, Pa. Toilet preparations. No. 143,136; May 24; v. 286; p. 850.
Phillips & Clark Stove Co, Inc., Geneva, N. Y. Stoves, ranges, and furnaces. No. 142,091; May 3; v. 286; p. 189.
Phillips, James M., Louisville, Ky. Cigarettes. No. 143,456; May 31; v. 286; p. 1052.
Piedmont Tobacco Co, Inc., Danville, Va. Tobacco and cigarettes. No. 142,892; May 17; v. 286; p. 641.
Piel Bros., Inc., Brooklyn, N. Y. Various non-alcoholic maltless beverages. Nos. 142,706–7; May 17; v. 286; p. 632.
Piel Bros., Inc., Brooklyn, N. Y. Non-alcoholic maltless beverages. No. 142,712; May 17; v. 286; p. 632.
Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. No. 143,430; May 31; v. 286; p. 1052.
Pin Tel Manufacturing Corporation, New York, N. Y. Neckties. No. 142,318; May 10; v. 286; p. 405.
Pittsburgh Shovel Company, Lewickley and Pittsburgh, Pa. Shovels and scoops. No. 143,137; May 24; v. 286; p. 850.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. No. 142,092; May 3; v. 286; p. 189.
Plant, Thomas G., Company, Boston, Mass. Shoe-laces, shoe-horns, and button-hooks. No. 142,708; May 17; v. 286; p. 632.
Platt, Rylance S., Lawrence, Mass. Remedy for boils, carbuncles, abscesses, &c. No. 142,093; May 3; v. 286; p. 189.
Pneumo Phthysine Chemical Mfg. Co., Chicago, Ill. Medicinal plaster for the alleviation of pneumonia, bronchitis, pleurisy, &c. No. 143,138; May 24; v. 286; p. 850.
Poage, R. C., Milling Co., Ashland and Catlettsburg, Ky. Wheat-flour. No. 142,094; May 3; v. 286; p. 189.
Pollak Steel Company, The, Carthage, Cincinnati, Ohio. Metal bars for reinforcing concrete. No. 142,710; May 17; v. 286; p. 632.
Pollock & Beckoff, New York, N. Y. Men's suits and over coats. No. 142,095; May 3; v. 286; p. 189.
Pontiac Lawn Mower Co., Detroit, Mich. Lawn-mowers. No. 143,261; May 24; v. 286; p. 858.
Portable Machinery Company Inc., Clifton, N. J. Conveyer-machines. No. 142,893; May 17; v. 286; p. 641.
Porter Chemical Company, The, Hagerstown, Md. Cards for making fancy articles and sachets. No. 142,096; May 3; v. 286; p. 189.
Porter Chemical Company, The, Hagerstown, Md. Guessing game. No. 142,718; May 17; v. 286; p. 632.
Portland Cordage Co., The, Portland, Oreg. Manila rope No. 142,709; May 17; v. 286; p. 632.
Portland Cordage Co., The, Portland, Oreg. Manila rope No. 142,713; May 17; v. 286; p. 632.
Posey & Meyer Co., Los Angeles, Calif. Soap in the form of a paste. No. 143,431; May 31; v. 286; p. 1052.
Powers Paper Company, Springfield, Mass. Papeteries, writing tablets and paper, mailing-envelops. No. 142,894; May 17; v. 286; p. 641.
Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and grapes. No. 143,262; May 24; v. 286; p. 858.
Pratt, Milan F., Rochester, N. Y. Salts used in the treatment of certain named diseases. No. 142,388; May 10; v. 286; p. 410.
Pre-Cast Products Co., Philadelphia, Pa. Building blocks and slabs made from stone, artificial stone, &c. No. 143,432; May 31; v. 286; p. 1052.
Precision Instrument Company, Detroit, Mich. Measuring appliances. No. 143,265; May 24; v. 286; p. 859.
Pressure Proof Piston Ring Company, Boston, Mass. Piston-rings. No. 143,263; May 24; v. 286; p. 858.
Prewit, William H., Brookford, N. C. Herniał trusses. No. 142,714; May 17; v. 286; p. 632.
Price, E. G., Reidsville, N. C. Preparation which beautifies the hair and aids its growth. No. 143,139; May 24; v. 286; p. 850.
Prichard & Constance, Inc., New York, N. Y. Soaps. No. 143,140; May 24; v. 286; p. 850.
Pride, William F., Tampa, Fla. Cigars. No. 142,715; May 17; v. 286; p. 632.
Procter and Gamble Company, The, Cincinnati, Ohio. Oleomargarin. Nos. 142,716–17; May 17; v. 286; p. 632.
Producers & Refiners Corporation, Denver, Colo. Gasolene, kerosene, and lubricating-oil. No. 142,319; May 10; v. 286; p. 405.
Puente Oil Company, Los Angeles, Calif. Gasolene. No. 143,523; May 31; v. 286; p. 1056.
Puritan Drug Company, Boston, Mass. Medical compound in pill form used for the bowels. No. 143,141; May 24; v. 286; p. 850.
Puritan Products Co., Clinton, Ill. Poultry and stock medicines. No. 143,434; May 31; v. 286; p. 1052.
Purity Confectionery Company, Boston, Mass. Confectionery—namely, Chocolates and bonbons, &c. No. 142,097; May 3; v. 286; p. 189.
Purity Oats Company, Branch of American Hominy Company, Davenport and Keokuk, Iowa. Oatmeal. No. 143,142; May 24; v. 286; p. 850.
(Pyro-Non Paint Co. (See Johnston, George F., assignor.)
Quaker Oats Company, The, Chicago, Ill. Corn flakes. No. 142,321; May 10; v. 286; p. 405.
Quaker Oats Company, The, Chicago, Ill. Crushed oats, wheat hearts and flakes, oatmeal, &c. No. 143,143; May 24; v. 286; p. 850.
Quality Brands Company, The, Cleveland, Ohio. Glazing, roofing, and caulking and waterproofing compounds. No. 143,435; May 31; v. 286; p. 1052.
Quality Poultry Farm, Gresham, Oreg. Live poultry, day-old chicks, and hatching-eggs. No. 143,144; May 24; v. 286; p. 850.
Queen City Specialty Co., The, Cincinnati, Ohio. Cleaner and polish for automobiles, &c. No. 142,320; May 10; v. 286; p. 405.
R an W Hat Shop, Inc., Norwalk, Conn., and New York, N. Y. Hats and caps for men. No. 142,720; May 17; v. 286; p. 632.
Radio Bulb Company Inc., New York, N. Y. Glass reflectors for electric signs. No. 142,719; May 17; v. 286; p. 632.
Radlor Co. Ltd. of London, New York, N. Y. Toilet preparations. No. 143,145; May 24; v. 286; p. 850.
Ramsey, Edward J., Brooklyn, N. Y. Shoes, oxfords, and sandals. No. 142,098; May 3; v. 286; p. 189.
Rapp Manufacturing Company, The, Philadelphia, Pa. Soaps and cleansers. No. 142,721; May 17; v. 286; p. 632.
Raymond, Le Roy, Ocean Park, Calif., assignor to A. Noble and W. Denzel, New York, N. Y. Amusement devices. No. 142,099; May 3; v. 286; p. 189.
Rea, William Bryce, New York, N. Y. Candy and chewing-gum. No. 142,100; May 3; v. 286; p. 189.
Reardon Company, The, St. Louis, Mo. Calcimine. No. 142,722; May 17; v. 286; p. 632.
Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 142,101; May 3; v. 286; p. 189.
Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 142,322; May 10; v. 286; p. 405.
Reed & Thompson, San Francisco, Calif. Musical instruments. No. 142,724; May 17; v. 286; p. 632.
Reed, Samuel P., Washington, D. C. Board game. No. 142,102; May 3; v. 286; p. 190.
Reefer, H. L., Kansas City, Mo. Device for dispensing an insecticide for the elimination of moths. No. 142,103; May 3; v. 286; p. 190.
Refiners Company, The, Omaha, Nebr. Liquid-filters for commercial, &c., uses. No. 142,723; May 17; v. 286; p. 632.
Reif, Mrs. Mary H., Hoboken, Ark. Hair-growing preparation. No. 142,136; May 24; v. 286; p. 850.
Reichold Company, The, Cleveland, Ohio. Ladies' and misses' dresses and skirts. No. 142,725; May 17; v. 286; p. 633.
Reis, Benedict, New York, N. Y. Waterproof oiled piece goods. No. 142,104; May 3; v. 286; p. 190.
Reis, Robert & Co., New York, N. Y. Undershirts and union-suits. No. 142,323; May 10; v. 286; p. 405.
Reliance Manufacturing Company, Chicago, Ill. Workshirts. No. 142,105; May 3; v. 286; p. 190.
Remington Arms Company, Inc., Bridgeport, Conn.; Ilion and New York, N. Y., and Swanton, Vt. Pocket-knives and hammers. Nos. 142,106–7; May 3; v. 286; p. 190.
Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; and New York, N. Y. Pocket-knives. Nos. 143,436–8; May 31; v. 286; p. 1052.

Remmert, William, St. Louis, Mo. Laundry-washing machines. No. 142,726; May 17; v. 286; p. 632.
Revere Confectionery and Pop Corn Works, Inc., Framingham Center, Mass. Confectionery—namely, lollipops. No. 143,147; May 24; v. 286; p. 850.
Rexina Co. Inc., Philadelphia, Pa. Tracing fabrics. No. 142,108; May 3; v. 286; p. 190.
Reynolds Bros., Scranton, Pa. Writing fluid. No. 143,148; May 24; v. 286; p. 850.
Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 142,727; May 17; v. 286; p. 632.
Rialto Clothing Co., Inc., The, New York, N. Y. Articles of clothing. No. 143,439; May 31; v. 286; p. 1052.
Rice, A. H., Company, Pittsfield, Mass. Braids and trimmings. No. 143,440; May 31; v. 286; p. 1052.
Rice-Stix Dry Goods Company, St. Louis, Mo. Misses' and children's dresses, middy-blouses, and ladies' waists. No. 142,728; May 17; v. 286; p. 632.
Rico Milk Products Company, East Troy, Wis. Evaporated cream. No. 140,441; May 31; v. 286; p. 1052.
Rich Tool Company, Chicago, Ill. Rivet-sets. No. 142,741; May 17; v. 286; p. 633.
Richmond Radiator Company, New York, N. Y. Enameled and metallic bathtubs, lavatories, sinks. No. 142,729; May 17; v. 286; p. 632.
Richmond Radiator Company, New York, N. Y. Non-electrical heating and cooking apparatus and accessories thereof. No. 142,730; May 17; v. 286; p. 632.
Ridgaway, William H., Baltimore, Md. Non-alcoholic, maltless beverage, and syrup therefor. No. 143,442; May 31; v. 286; p. 1052.
Riedel & Co., Inc., New York, N. Y. Medicinal preparation for rheumatism, &c. No. 142,109; May 3; v. 286; p. 190.
Rieger & Gretz Brewing Company, Philadelphia, Pa. Cereal non-intoxicating malt beverage. No. 142,110; May 3; v. 286; p. 190.
Rimané, Incorporated, New York, N. Y. Toilet preparations. No. 143,149; May 24; v. 286; p. 850.
Rincones, P. R., Jr., Company, Inc., New York, N. Y. Refrigerators. No. 142,731; May 17; v. 286; p. 633.
Riverside Paint & Varnish Company, Boston, Mass. Adhesives, cements, and glues. No. 142,111; May 3; v. 286; p. 190.
Robertson, James, & Sons, Preserve Manufacturers, Limited, Paisley, Scotland. Marmalade. No. 143,443; May 31; v. 286; p. 1052.
Robertson, Ledlie, Ferguson & Co. Limited, Belfast, Ireland. Articles of clothing. No. 142,112; May 3; v. 286; p. 190.
Robin, Jacob L., New York, N. Y. Lamps, gas-burners, mantles, &c. No. 142,113; May 3; v. 286; p. 190.
Roe, A. V., & Co., Limited, London, England. Motor-cars and accessories. No. 142,732; May 17; v. 286; p. 633.
Roelly Chemical Co., Inc., New York, N. Y. Finger-nail polish, talcum powder, &c. No. 143,444; May 31; v. 286; p. 1052.
Roentgen Appliance Company, San Francisco, Calif. Apparatus for maintaining constant current on Coolidge tubes. No. 142,389; May 10; v. 286; p. 410.
Roessner, Ena, Chicago, Ill. Hair-curlers in the nature of metallic clips. No. 142,324; May 10; v. 286; p. 406.
Rogers Peet Company, New York, N. Y. Men's leather shoes. No. 142,316; May 10; v. 286; p. 405.
Rogers Peet Company, New York, N. Y. Men's and boys' knitted underwear. No. 143,433; May 31; v. 286; p. 1052.
Roman Meal Company, North Tonawanda, N. Y. Cereal compound. No. 142,895; May 17; v. 286; p. 641.
Rosen, Julius, Kansas City, Mo. Liniment. No. 142,114; May 3; v. 286; p. 190.
Rosenblatt, Louis, St. Louis, Mo. Certain musical instruments. No. 142,733; May 17; v. 286; p. 633.
Rosenblum, Samuel, New York, N. Y. Tassels, fringes, braids, artificial flowers, &c. No. 142,115; May 3; v. 286; p. 190.
Rosenthal, A. S., Co., New York, N. Y. Silk piece goods. No. 143,445; May 31; v. 286; p. 1052.
Rosenthal, Henry S., New York, N. Y. Bindings of cotton, silk, and wool. No. 142,734; May 17; v. 286; p. 633.
Rosevear, William B., Jr., Detroit, Mich. Seeds, shrubs, plants, trees. No. 142,735; May 17; v. 286; p. 633.
Round Hill Milling Company, The, Round Hill, Va. Wheat-flour. No. 142,736; May 17; v. 286; p. 633.
Royal Pharmaceutical & Perfumery Co. Inc., New York, N. Y. Bath powder or salt. No. 142,116; May 3; v. 286; p. 190.
Royal Typewriter Company Inc., New York, N. Y. Typewriting-machines and parts thereof. No. 142,117; May 3; v. 286; p. 190.
Rubens, Chas., & Co., Chicago, Ill. Snap-fasteners. No. 142,325; May 10; v. 286; p. 406.
Rubinat, Barcelona, Spain. Mineral waters. No. 143,150; May 24; v. 286; p. 850.
Rub-No-More Company, The, Fort Wayne, Ind. White naphtha soap. No. 142,118; May 3; v. 286; p. 190.
Russell, Ed., Laredo, Tex. Medicinal preparation. No. 143,153; May 24; v. 286; p. 850.
Russell Manufacturing Company, Middletown, Conn. Suspenders, hose-supporters, garters, elastic braids and cords, &c. Nos. 142,737–8; May 17; v. 286; p. 633.
Russell Manufacturing Company, The, Middletown, Conn. Webs. Nos. 143,151–2; May 24; v. 286; p. 850.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings, ladies' dress-belting, garters, &c. No. 143,446; May 31; v. 286; p. 1052.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings, garters, hose-supporters, and suspenders. No. 143,447; May 31; v. 286; p. 1052.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings, ladies' dress belting, garters, &c. No. 143,448; May 31; v. 286; p. 1052.
Russell Manufacturing Company, The, Middletown, Conn. Ladies' dress-belting, elastic webbings, and suspenders. No. 143,449; May 31; v. 286; p. 1052.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings and ladies' dress-belting. Nos. 143,451–2; May 31; v. 286; p. 1052.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings. No. 143,453; May 31; v. 286; p. 1052.
Russell Manufacturing Company, The, Middletown, Conn. Beltings, brake-linings, anti-squeak webs, &c. No. 143,454; May 31; v. 286; p. 1052.
Russo, Frank, Rivesville, W. Va. Preparation for the treatment of rheumatism. No. 143,154; May 24; v. 286; p. 850.
Ruycra Lopez Cigar Mfg. Co., Inc., Philadelphia, Pa. Cigars. No. 143,455; May 31; v. 286; p. 1052.
Ryan, B., New York, N. Y. Thermostatic controllers for water-heaters. No. 143,155; May 24; v. 286; p. 850.
Rymil Chemical Company, Indianapolis, Ind. Hair-restorer. No. 143,156; May 24; v. 286; p. 850.
S. & V. Products Co., Chicago, Ill. Egg-preserving compound. No. 143,486; May 31; v. 286; p. 1053.
Safetee Soap Corporation. (See American Safeteesoap Corporation.)
Safety Fire Extinguisher Co., New York, N. Y. Fire-extinguishers. No. 142,896; May 17; v. 286; p. 641.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 142,742; May 17; v. 286; p. 633.
Salzer, John A., Seed Co., La Crosse, Wis. Garden, field, and flower seeds. No. 143,158; May 25; v. 286 p. 850.
Salzinco Company, Philadelphia, Pa. Mouth-washes. No. 143,157; May 24; v. 286; p. 850.
Samson Tractor Company, Janesville, Wis. Agricultural implements. No. 142,743; May 17; v. 286; p. 633.
Samson Tractor Company, Janesville, Wis. Wheeled vehicles other than bicycles. No. 143,160; May 24; v. 286; p. 851.
Samson Tractor Company, Janesville, Wis. Automobiles, motor-trucks, motor-lorries, and motor-cars. No. 143,458; May 31; v. 286; p. 1052.
Samstag & Hilder Bros., New York, N. Y. Dolls. No. 142,744; May 17; v. 286; p. 633.
Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 142,745; May 17; v. 286; p. 633.
San Antonio Drug Co., San Antonio, Tex. Papeteries, writing, typewriter, and correspondence paper, &c. No. 143,159; May 24; v. 286; p. 851.
San Benito County Canning Co., Hollister, Calif. Canned fruits and vegetables. No. 143,161; May 24; v. 286; p. 851.
Sanderson, Wootson L., Meridian, Miss. Artificial stone and brick. No. 142,121; May 3; v. 286; p. 190.
Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Watch-springs. No. 142,326; May 10; v. 286; p. 406.
Sanford Truck Growers, Inc., Sanford, Fla. Foods. No. 142,119; May 3; v. 286; p. 190.
Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Articles of clothing. No. 142,327; May 10; v. 286; p. 406.
Sanitary Feather Co., The, Chicago, Ill. Pillows, sofa-cushions, mattresses, and box-springs. No. 142,390; May 10; v. 286; p. 411.
Sanitary Products Corporation of America, Philadelphia, Pa. Paper forks. No. 142,746; May 17; v. 286; p. 633.
Sanitary Receiver Company Inc., Dunkirk, N. Y. Metal cans or receptacles for waste material. No. 143,162; May 24; v. 286; p. 851.
Saqui, Dave S., New York, N. Y. Cigars, chewing tobacco, stogies, &c. No. 143,459; May 31; v. 286; p. 1052.
Sargents', C. G., Sons Corporation, Graniteville, Mass. Textile machines and equipments. No. 142,122; May 3; v. 286; p. 190.
Saunderite Manufacturing Company, Denver, Colo. Prepared cleaner for cars, automobile-bodies, &c. No. 142,747; May 17; v. 286; p. 633.
Savannah Millinery & Supply Co., Savannah, Ga. Ladies', misses', and children's hats. No. 142,748; May 17; v. 286; p. 633.
Sawyer, Cora A., Egan, S. D. Receptacles made of a combination of paper-pulp, &c. No. 142,120; May 3; v. 286; p. 190.
Schafer Bakery Inc., Savannah, Ga. Bread. No. 142,897; May 17; v. 286; p. 641.
Scheidt, Adam, Brewing Company, Norristown, Pa. Lager-beer. No. 142,749; May 17; v. 286; p. 633.
Scherer, Oscar, & Bro. Inc., New York, N. Y. Kid. No. 143,126; May 24; v. 286; p. 849.
Schlang & Co., Brooklyn, N. Y. Men's suits. No. 143,460; May 31; v. 286; p. 1052.
Schoellkopf Company, The, Dallas, Tex. Monthly publication. No. 142,328; May 10; v. 286; p. 406.
Schoenhofen Company, Chicago, Ill. Ginger-ale, sarsaparilla, birch-beer, and soda-water. No. 143,461; May 31; v. 286; p. 1052.

Schreiber-Hoban Company, The, Streator, Ill. Underwaists. No. 142,750; May 17; v. 286; p. 633.
Schroeder, Henry P., St. Louis, Mo. Non-intoxicating beverages. No. 142,123; May 3; v. 286; p. 190.
Schumacher, P. J., Co., Inc., New York, N. Y. Toilet preparations. No. 143,163; May 24; v. 286; p. 851.
Scotford, Baron H., Atlantic City, N. J. Portraits, sketches, drawings, &c. No. 142,751; May 17; v. 286; p. 633.
Scott, Peter, and Company, Limited, Hawick, Scotland. Articles of clothing. No. 142,752; May 17; v. 286; p. 633.
Scranton Distributing and Manufacturing Company, Scranton, Pa. Tonic aiding digestion, nervousness, imparting strength to the system, and a laxative. No. 143,164; May 24; v. 286; p. 851.
Sears, Roebuck and Co., Chicago, Ill. Corsets. No. 142,329; May 10; v. 286; p. 406.
Sears, Roebuck and Company, Chicago, Ill. Safety-pins. No. 142,330; May 10; v. 286; p. 406.
Sears, Roebuck and Co., Chicago, Ill. Outer suits and trousers for men and boys. No. 142,753; May 17; v. 286; p. 633.
Sears, Roebuck and Co., Chicago, Ill. Gasolene-engines. No. 142,754; May 17; v. 286; p. 633.
Sears, Roebuck and Company, Chicago, Ill. Corsets. No. 143,165; May 24; v. 286; p. 851.
Sears, Roebuck and Co., Chicago, Ill. Ticking. No. 143,462; May 31; v. 286; p. 1053.
Sears, Roebuck and Co., Chicago, Ill. Wool-batting. No. 143,463; May 31; v. 286; p. 1053.
Seawright, Charlie C., Pratt City, Ala. Compound for treating diseases of the blood, liver, and lungs. No. 143,464; May 31; v. 286; p. 1053.
Seekenep Silk Co., Inc., New York, N. Y. Silk and cotton piece goods. No. 142,755; May 17; v. 286; p. 633.
Self-Seating Valve Company, Chicago, Ill. Valves for internal-combustion engines. No. 142,756; May 17; v. 286; p. 633.
Semrad Chemical Co., Chicago, Ill. Food-flavoring extracts. No. 142,757; May 17; v. 286; p. 633.
Sen-Rayto Co., The, Cleveland, Ohio. Hair-tonic, pomade, and cold-cream. No. 143,465; May 31; v. 286; p. 1053.
Serv-Us-Grocery Products Corporation, New York, N. Y. Chemicals, medicinal and pharmaceutical preparations. No. 143,166; May 24; v. 286; p. 851.
Shaft-Pierce Shoe Co., Faribault, Minn. Fabric, rubber, rubber composition, and leather shoes. No. 142,898; May 17; v. 286; p. 642.
Shane, C. B., Co., Chicago, Ill. Raincoats. No. 142,758; May 17; v. 286; p. 633.
Share, Alonzo L., Kingfisher, Okla. Catarrhal oil. No. 143,466; May 31; v. 286; p. 1053.
Sharp & Dohme, Baltimore, Md. Medicinal tablets. No. 142,124; May 3; v. 286; p. 190.
Sharp & Dohme, Baltimore, Md. Rubefacient solution. No. 142,125; May 3; v. 286; p. 190.
Shaw-Enochs Tractor Company, Minneapolis, Minn. Tractors. No. 142,759; May 17; v. 286; p. 633.
Sheaffer, W. A., Pen Co., Fort Madison, Iowa. Writing fluids. No. 142,760; May 17; v. 286; p. 633.
Shelby Metal Products Co., The, Shelby, Ohio. Check-hinges. No. 142,331; May 10; v. 286; p. 406.
Sherikjian, Paul A., Holyoke, Mass. Fruit conserve. No. 142,761; May 17; v. 286; p. 633.
Sherwood Bros. Mfg. Co. Inc., Canastota, N. Y. Sleds. No. 142,762; May 17; v. 286; p. 633.
Shimer, Porter W., Easton, Pa. Chemical preparations. No. 143,167; May 24; v. 286; p. 851.
Shimer, Porter W., Easton, Pa. Lump calcium cyanamid. No. 143,168; May 24; v. 286; p. 851.
Short, Lewis E., Indianapolis, Ind. Cleaning-powder for general building and house-cleaning purposes. No. 143,467; Mar. 31; v. 286; p. 1053.
Sidmans, The, Canandaigua, N. Y. Kilns and ventilating apparatus therefor. No. 142,127; May 3; v. 286; p. 190.
Siemon & Etting, New York, N. Y. Wash-blue. No. 142,128; May 3; v. 286; p. 190.
Silberman, Hazel D., New York, N. Y. Dolls, paper dolls, and dolls' outfits. No. 142,561; May 17; v. 286; p. 627.
Silberman, Hazel D., New York, N. Y. Children's outer clothing. No. 143,468; May 31; v. 286; p. 1053.
Silberman, Jacob, Stapleton, N. Y. Sleeping-garments. No. 142,764; May 17; v. 286; p. 633.
Silk Yarn Trading Company, New York, N. Y. Silk thread. No. 142,129; May 3; v. 286; p. 190.
Silvera, Theodore E., Philadelphia, Pa. Hair restorer and shampoo. No. 143,469; May 30; v. 286; p. 1053.
Simmons & Hammond Manufacturing Company, Portland, Me. Candies of various kinds and ice-cream. No. 143,471; May 31; v. 286; p. 1053.
Simmons Hardware Company, St. Louis, Mo. Sleds and boys' wagons for play. No. 142,130; May 3; v. 286; p. 190.
Simmons Hardware Company, St. Louis, Mo. Games, toys, and fancy goods. No. 142,131; May 3; v. 286; p. 190.
Simmons Hardware Company, St. Louis, Mo. Harness, riding-saddles, horse-collars, &c. No. 142,392; May 10; v. 286; p. 411.
Simmons Hardware Company, St. Louis, Mo. Padlocks, night-latches. No. 142,393; May 10; v. 286; p. 411.
Simmons Hardware Company, St. Louis, Mo. Bridles, saddle-pockets, chaps, and riding-saddles. No. 143,470; May 31; v. 286; p. 1053.
Simmons, Thomas W., Company, San Francisco, Calif. Certain chemicals. No. 142,899; May 17; v. 286; p. 642.
Simon, Louis, Toronto, Ontario, Canada. Pipes and cigar and cigarette holders. No. 142,765; May 17; v. 286; p. 634.
Simon, N., Cheese Co., Inc., Appleton, Wis. Cheese. No. 142,391; May 10; v. 286; p. 411.
Simon, Samuel S., Company, Inc., Chicago, Ill. Trousers, suits, and overcoats for men and boys. No. 143,524; May 31; v. 286; p. 1056.
Simplex Manufacturing Company, Inc., The, Conneautville, Pa. Truck-bodies. No. 143,472; May 31; v. 286; p. 1053.
Simplex Wire & Cable Company, Boston, Mass. Wire for electrical use, insulation materials, &c. No. 143,473; May 31; v. 286; p. 1053.
Singer, Louis, New York, N. Y. Toilet preparations. No. 142,132; May 3; v. 286; p. 190.
Singer, Philip A., & Bro., Newark, N. J. Dressed furs for use in apparel. No. 142,332; May 10; v. 286; p. 406.
Single, John, Syracuse, N. Y. Paper bags. No. 142,133; May 3; v. 286; p. 190.
Skat Company, The, Hartford, Conn. Soap of pastelike consistency. No. 142,766; May 17; v. 286; p. 634.
Slaight, Leland V., New York, N. Y. Non-abrasive absorbent cleansing and polishing base. No. 143,069; May 24; v. 286; p. 848.
Slater and Morrill Incorporated, South Braintree, Mass. Boots and shoes. No. 142,781; May 17; v. 286; p. 634.
Slatkin, Hyman, Baltimore, Md. Stove-polish. No. 142,767; May 17; v. 286; p. 634.
Slaymaker, Samuel R., assignor to Fraim-Slaymaker Hardware Company, Lancaster, Pa. Locks, keys and parts thereof, strike-plates, escutcheons. No. 142,782; May 17; v. 286; p. 634.
Smart Millinery Shop, The, Memphis, Tenn. Ladies' and men's hats, caps, and bonnets. No. 143,170; May 24; v. 286; p. 851.
Smith, George W., Chicago, Ill. Memorandum and calendar pads, pad-stands. No. 142,768; May 17; v. 286; p. 634.
Smith, H. D., Company, The, Plantsville, Conn. Cold and cape chisels, nail-sets, punches. No. 142,900; May 17; v. 286; p. 642.
Smith, H. D., & Company, The, Plantsville, Conn. Offset slip-joint pliers. No. 143,171; May 24; v. 286; p. 851.
Smith, James, & Son, (Redditch,) Ld., Redditch, England. Package-needles for hand-sewing. No. 142,134; May 3; v. 286; p. 190.
Smith, James, & Son, Redditch, Ld., Redditch, England. Sailmakers' needles. No. 142,135; May 3; v. 286; p. 191.
Smith, M. E., & Co., Inc., Omaha, Nebr. Children's knitted sleeping-garments. No. 142,769; May 17; v. 286; p. 634.
Smith, May C., Washington, D. C. Beads and bead necklaces. No. 142,225; May 3; v. 286; p. 192.
Smith, Philip, Columbus, Ohio. Razors, safety-razors, pocket-knives, scissors, &c. No. 142,136; May 3; v. 286; p. 191.
Smith, R. McD., & Sons, Louisiana, Mo. Salve for certain named ailments. No. 143,172; May 24; v. 286; p. 851.
Sobolewski, Joseph, East Boston, Mass. Medicine for diseases of the tongue, mouth, and legs of cattle and horses. No. 142,137; May 3; v. 286; p. 191.
Soc. Prodotti chimico-farmaceutici A. Bertelli & C., Milan, Italy. Pills of essence of tar. No. 143,177; May 24; v. 286; p. 851.
Société Anonyme A. André Fils, Paris, France. Oils and greases. No. 143,174; May 24; v. 286; p. 851.
Société Anonyme des Anciens Établissements Sabatier Père et Fils, Thiers, France. Knives, carving sets, scissors, &c. No. 142,138; May 3; v. 286; p. 191.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Blackings, polishes, &c., for leather articles and metal-polishes. No. 142,770; May 17; v. 286; p. 634.
Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Polishes for all kinds of leather articles such as books, shoes, and harness. No. 143,474; May 31; v. 286; p. 1053.
Société Anonyme Parfumerie Ramsès, Paris, France. Perfumes, rice powders, cologne-waters, dentifrices, &c. No. 143,173; May 24; v. 286; p. 851.
Societe des Moteurs Gnome et Rhone, Paris, France. Door, trunk, and safe locks, padlocks, &c. No. 142,771; May 17; v. 286; p. 634.
Societe des Moteurs Gnome et Rhone, Paris, France. House-filters, coolers, refrigerating apparatus, &c. No. 142,772; May 17; v. 286; p. 634.
Societe des Moteurs Gnome et Rhone, Paris, France. Motor-cars, vessels, boats, and rudders. No. 143,175; May 24; v. 286; p. 851.
Societe des Moteurs Gnome et Rhone, Paris, France. Machines for working on tissue, paper, leather, pasteboard, and cloth. No. 143,176; May 24; v. 286; p. 851.
Societe des Moteurs Gnome et Rhone, Paris, France. Machinery and tools. No. 143,475; May 31; v. 286; p. 1053.

Société La Perle Saskia, Paris, France. Articles of jewelry. No. 142,333; May 10; v. 286; p. 406.
Society of Chemical Industry in Basle, Basel, Switzerland. Medicinal preparations. No. 142,139; May 3; v. 286; p. 191.
Sollod, Joseph A., Baltimore, Md. Preparation intended to remove corns, bunions, and callouses. No. 142,140; May 3; v. 286; p. 191.
Sornin & Discry, Eterbeek-Brussels, Belgium. Device for use in writing. No. 142,773; May 17; v. 286; p. 634.
Sorokowski, Joseph, Chicago, Ill. Medicine for rheumatism. No. 143,476; May 31; v. 286; p. 1053.
Sorvan Company, The, Tyrone, Pa. Medicinal ointment or cream for the feet. No. 142,141; May 3; v. 286; p. 191.
South Metropolitan Gas Company, London, England. Fertilizers, being sulfates. No. 142,142; May 3; v. 286; p. 191.
Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill. Peanut-butter. No. 142,143; May 3; v. 286; p. 191.
Southern Illinois Milling & Elevator Co., Murphysboro, Ill. Self-rising wheat-flour. No. 143,477; May 31; v. 286; p. 1053.
Southern & Richardson Limited, Sheffield, England. Cutlery and edge-tools. No. 142,144; May 3; v. 286; p. 191.
Southern Spring Bed Company, Atlanta, Ga. Mattresses. No. 142,774; May 17; v. 286; p. 634.
Spaeth, George F., New York, N. Y. Medicinal and toilet preparations. No. 143,478; May 31; v. 286; p. 1053.
Spaide Shirt Company, The, Butler, Pa. Work-shirts, overalls, dress and play shirts. No. 143,178; May 24; v. 286; p. 851.
Specialty Baking Co., Inc., New York, N. Y. Bread. No. 143,264; May 24; v. 286; p. 858.
Spicebandler, Charles, New York, N. Y. Cotton thread. No. 143,479; May 31; v. 286; p. 1053.
Sponberg, Gustave, Pocatello, Idaho. Coffee. No. 143,265; May 24; v. 286; p. 858.
Sponberg, Gustave, Pocatello, Idaho. Coffee, tea, spices, flavoring extracts for food. No. 143,266; May 24; v. 286; p. 858.
Squier, George C., Springfield, Mass., assignor to Joseph A. Hoegger, Jersey City, N. J. Bathroom fixtures and accessories. No. 143,480; May 31; v. 286; p. 1053.
St. Louis Coal Co., St. Louis, Mo., and Coulterville, Ill. Coal. No. 142,337; May 10; v. 286; p. 406.
St. Louis Electrical Works, St. Louis, Mo., assignors to Valley Electric Company, Wilmington, Del. Electric motors and motor-generators. No. 142,783; May 17; v. 286; p. 634.
Sta-Brite Manufacturing Company, Seattle, Wash. Automobile-body polish. No. 142,145; May 3; v. 286; p. 191.
Staley, A. E., Manufacuring Company, Decatur, Ill. Syrups for table use. No. 142,777; May 17; v. 286; p. 634.
Standard Chemical Co., now by change of name Eastbay Chemical Company, Emeryville, Calif. Compounds for cooling the tools of metal-cutting machinery. No. 143,481; May 30; v. 286; p. 1053.
Standard Oil Company, Bayonne, N. J. Petrolatum. No. [illegible] v. 286; p. 851.
Standard Oil Company of New York, New York, N. Y. Soap. No. 142,775; May 17; v. 286; p. 634.
Standard Oil Company of New York, New York, N. Y. Lamp chimneys and burners. No. 143,179; May 24; v. 286; p. 851.
Standard Oil Company of New York, New York, N. Y. Stoves, heaters, lamps, lanterns, &c. No. 143,482; May 31; v. 286; p. 1053.
Standard Pencil Co., St. Louis, Mo. Lead-pencils. No. [illegible] v. 286; p. 851.
Standard Textile Products Company, The, Youngstown, Ohio, and New York, N. Y. Cotton piece goods. No. 143,483; May 31; v. 286; p. 1053.
Standard Tilton Milling Co., St. Louis, Mo. Wheat-flour. No. 142,776; May 17; v. 286; p. 634.
Stanley A. Richardson, Dorchester, Mass. Medicinal treatment for rheumatism, &c. No. 142,146; May 3; v. 286; p. 191.
Starkey, Seth M., New Brunswick, N. J. Vinegar. No. 143,181; May 24; v. 286; p. 851.
Ste Anne de Beaupre Manufacturing Establishments A. Combe & Fils & Cie., Paris, France. Leathers and skins. No. 142,231; May 10; v. 286; p. 405.
Stearns McKay Manufacturing Co., Marblehead, Mass. Ready mixed paints. No. 142,147; May 3; v. 286; p. 191.
Steinhauser, Elliott, Watsonville, Calif. Malt beverages. No. 142,778; May 17; v. 286; p. 634.
Steitz, Edward G., St. Louis, Mo. Plant food. No. 142,779; May 17; v. 286; p. 634.
Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. Nos. 143,184–5; May 24; v. 286; p. 851.
Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps for men and boys. No. 143,525; May 31; v. 286; p. 1056.
Stoddard, Gilbert & Co. Inc., New Haven, Conn. Cigars. No. 142,780; May 17; v. 286; p. 634.
Stonewall Medicine Company, St. Louis, Mo. Laxative tablets. No. 142,149; May 3; v. 286; p. 191.
Strasenburgh, R. E., Company, Rochester, N. Y. Tooth-powder. No. 143,182; May 24; v. 286; p. 851.
Strathmore Paper Company, West Springfield and Mittineague, Mass. Certain described paper and cardboard. No. 142,335; May 10; v. 286; p. 406.
Strauss Bros. & Co., New York, N. Y. Hair-nets. No. 143,267; May 24; v. 286; p. 858.
Strauss, Levi, & Co., San Francisco, Calif. Play-suits, rompers, children's pants, overalls, shirts, and blouses. No. 143,183; May 24; v. 286; p. 851.
Stuart, William H., New York, N. Y. Gage-glasses. No. 142,336; May 10; v. 286; p. 406.
Stunz, H. M., Kansas City, Mo. Thermometers. No. 143,186; May 24; v. 286; p. 851.
Sucoco Company, Incorporated, The, assignor to The Lauden Company, New York, N. Y. Food syrups and pastes used in cooking. No. 142,784; May 17; v. 286; p. 634.
Sugola Company of America, New York, N. Y. Crystallized and liquid sweetening-syrup. No. 142,785; May 17; v. 286; p. 634.
Summitville Clay Products Co., Summitville, Ohio. Bricks and building blocks. No. 143,484; May 31; v. 286; p. 1053.
Sunny Brook Distillery Co., The, Chicago, Ill. Whisky. No. 142,338; May 10; v. 286; p. 406.
Sunderland Brothers Company, Omaha, Nebr. Stucco, composition flooring, and plaster. No. 143,485; May 31; v. 286; p. 1053.
Super Reflex Company, Chicago, Ill. Cameras. No. 142,786; May 17; v. 286; p. 634.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. No. 143,187; May 24; v. 286; p. 851.
Sutterly, Job R., Jr., Bridgeton, N. J. Automobiles. No. 142,787; May 17; v. 286; p. 634.
Sutton, Arthur L., Atlanta, Ga. Medicinal preparation for coughs, colds, hoarseness, &c. No. 142,150; May 3; v. 286; p. 191.
Swafford, Mortimer H., Chicago, Ill. Pharmaceutical preparation for the treatment of tobacco habit. No. 143,188; May 24; v. 286; p. 851.
Sweet Candy Company, Salt Lake City, Utah. Candy. No. 142,788; May 17; v. 286; p. 634.
Talcum Puff Company, Brooklyn, N. Y. Talcum powder. No. 143,190; May 24; v. 286; p. 851.
Talcum Puff Co., Brooklyn, N. Y. Toilet preparations. No. 143,191; May 24; v. 286; p. 852.
Talking Book Corporation, New York, N. Y. Phonograph-records and books therefor. No. 142,151; May 3; v. 286; p. 191.
Tardone, Robert, & Son, New York, N. Y. Liquid hair-tonic. No. 143,193; May 24; v. 286; p. 852.
Tate Manufacturing Company, Boston, Mass. Mops, oil-mops, and cotton floor-brushes. No. 143,192; May 24; v. 286; p. 852.
Taylor, C. A., Trunk Works, Inc., Chicago, Ill. Trunks. No. 143,194; May 24; v. 286; p. 852.
Taylor, F. H., Company, Philadelphia, Pa. Laundry-washing machines, ironing-boards, &c. No. 142,789; May 17; v. 286; p. 634.
Taylor, William B., Plympton, Mass. Fresh eggs. No. 143,487; May 31; v. 286; p. 1053.
Terry, Herbert, & Sons, Ltd., Redditch, England. Accessories for motor cars and cycles. No. 142,152; May 3; v. 286; p. 191.
Texas Company, The, Houston, Tex., and New York, N. Y. Composition felt roofing. No. 142,153; May 3; v. 286; p. 191.
Textile Products Manufacturing Company, St. Louis, Mo. Overalls, jumpers, and work-shirts. Nos. 142,790–1; May 17; v. 286; p. 634.
Textile Service Co., Inc., New York, N. Y. Waterproof cotton piece goods. No. 143,488; May 31; v. 286; p. 1053.
Thane, A. F., & Co., San Francisco, Calif. Lumber. No. 142,154; May 3; v. 286; p. 191.
Thane, A. F., & Co., San Francisco, Calif. Dyes. No. 143,489; May 31; v. 286; p. 1053.
Thayer, Rena W., Adams, Mass. Hair-locking attachments for barretts. No. 142,901; May 17; v. 286; p. 642.
"The Young Men's Shop," Washington, D. C. Articles of clothing. No. 142,398; May 10; v. 286; p. 411.
Theard, Thomas A., Indianapolis, Ind. Cleaning compound for rugs and carpets. No. 142,792; May 17; v. 286; p. 634.
Theopold-Reid Co., Faribault, Minn. Wheat-flour. No. 143,195; May 24; v. 286; p. 852.
Thlinket Packing Company, Portland, Oreg., and Funter Bay, Alaska. Canned salmon. No. 143,196; May 24; v. 286; p. 852.
Thoma, James G. D., Cooperstown and New York, N. Y. Cigars. No. 142,793; May 17; v. 286; p. 634.
Thorson, Peter, Baldt, Wash. Shoe-dressing. No. 143,490; May 31; v. 286; p. 1053.
Thornhill Wagon Co., Lynchburg, Va. Farm and freight wagons. No. 142,155; May 3; v. 286; p. 191.
Tichenor, F. I., Co. Inc., Middletown, N. Y. Writing-tablets. No. 143,491; May 31; v. 286; p. 1053.
Toch Brothers, New York, N. Y. Material for chemically hardening and dust-proofing cement or concrete floors. No. 142,156; May 3; v. 286; p. 191.
Toch Brothers, New York, N. Y. Liquid material to be mixed with cement to hasten final set of construction-work. No. 143,197; May 24; v. 286; p. 852.
Tockstein, Julia, Chicago, Ill. Medicinal preparation for use in the treatment of St. Vitus's dance. No. 143,492; May 31; v. 286; p. 1053.

Tolerton & Warfield Co., Sioux City, Iowa. Foods. No. 142,339; May 10; v. 286; p. 406.
Tolman Print Inc., Brockton, Mass. Paper and blank forms. No. 142,157; May 3; v. 286; p. 191.
Tolman Print, Inc., Brockton, Mass. Advertising literature. No. 142,902; May 17; v. 286; p. 642.
Tonkin, William J., Ridgewood, N. J. Games comprising pieces and a game-board. No. 142,842; May 17; v. 286; p. 636.
Tool & Auto Products Company, The, Cleveland, Ohio. Tools and machinery for working metal. No. 143,198; May 24; v. 286; p. 852.
Topkis Bros. Co., Wilmington, Del. Underwear. No. 142,795; May 17; v. 286; p. 634.
Toro Manufacturing Company, Minneapolis, Minn. Cultivators. No. 143,199; May 24; v. 286; p. 852.
Townsend, E. M., & Co., New York, N. Y. Hosiery and knitted underwear. No. 142,796; May 17; v. 286; p. 635.
Traitel Marble Co., The, New York, N. Y. Construction materials for floors, walls, and ceilings. No. 143,493; May 31; v. 286; p. 1053.
Trenton Milling Company, Trenton, Ill. Wheat-flour. No. 143,200; May 24; v. 286; p. 852.
Tri-State Engineering Co., The, Zanesville, Ohio. Metals, forgings, and castings, &c. No. 142,797; May 17; v. 286; p. 635.
Trione Piston Ring Company, St. Louis, Mo. Metal piston-rings. No. 142,340; May 10; v. 286; p. 406.
Truitt Brothers, Inc., Binghamton, N. Y. Shoes. No. 142,798; May 17; v. 286; p. 635.
Tuskeloid Company, Inc., New York, N. Y. Combs, pin cushions, and shoe-horns. No. 143,494; May 31; v. 286; p. 1054.
Tweedie Footwear Corporation, Jefferson City, Mo. Infants' shoes and slippers made of fabric. No. 142,341; May 10; v. 286; p. 406.
Twin City Varnish Co., St. Paul, Minn. Enamel paints, undercoating in the nature of paint, and varnishes. No. 142,799; May 17; v. 286; p. 635.
Twin Washer Manufacturing Company, St. Paul, Minn. Laundry-washing machine. No. 142,800; May 17; v. 286; p. 635.
Twombly, John S., Boston, Mass. All varieties of cured, salt, and canned fish and shrimp. No. 142,801; May 17; v. 286; p. 635.
Tuxbury, A. C., Lumber Co., Charleston, S. C. Built-up or fabricated bungalows and houses. No. 143,269; May 24; v. 286; p. 859.
U. S. Plastic Art Works, Inc., Brooklyn, N. Y. Receptacles—namely, cigar-boxes, candy-boxes, &c. No. 143,201; May 24; v. 286; p. 852.
Ullman, Sigmund, e., New York, N. Y. Printing-inks. No. 142,763; May 17; v. 286; p. 633.
Ungerer & Co., New York, N. Y. Essences suitable for the production of perfumes. No. 142,158; May 3; v. 286; p. 191.
Union Candy Company, The, Cincinnati, Ohio. Candy. No. 142,803; May 17; v. 286; p. 635.
Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 142,804; May 17; v. 286; p. 635.
United Barber Service Co., Baltimore, Md. Toilet water, pomade, hair-tonic, &c. No. 143,497; May 31; v. 286; p. 1054.
United Brush Manufactories, New York, N. Y. Paint-brushes and painters' dusters. No. 142,802; May 17; v. 286; p. 635.
United Drug Company, Boston, Mass. Moving-picture films. No. 142,159; May 3; v. 286; p. 191.
United Drug Company, Boston, Mass. Adhesive paste. No. 142,805; May 17; v. 286; p. 635.
United Drug Company, Boston, Mass. Chemical, medicinal, and pharmaceutical preparations. No. 143,498; May 31; v. 286; p. 1054.
United Kola Bottlers Corporation, Philadelphia, Pa. Non-alcoholic, maltless beverages and syrups for making same. No. 142,806; May 17; v. 286; p. 635.
United Products Corporation of America, Philadelphia, Pa. Glue. No. 142,160; May 3; v. 286; p. 191.
United Products Corporation of America, Philadelphia, Pa. Glues. No. 142,161; May 3; v. 286; p. 191.
United States Auto Gear Shift Co., Eau Claire, Wis. Gear-shifts. No. 142,807; May 17; v. 286; p. 635.
United States Graphite Company, The, Saginaw, Mich. Powdered graphite. No. 143,496; May 31; v. 286; p. 1054.
United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 143,499; May 31; v. 286; p. 1054.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of rubber and fabric. No. 142,342; May 10; v. 286; p. 406.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Traveling-bags and portfolio like envelops made of imitation leather composed of rubber and fabric. No. 142,808; May 17; v. 286; p. 635.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes made wholly or in part of fabric and rubber. No. 143,202; May 24; v. 286; p. 852.
United States Tent & Awning Company, Chicago, Ill. Dolls. No. 142,809; May 17; v. 286; p. 635.
United States Tire Company, New York, N. Y. Rubber vehicle-tires. No. 143,526; May 31; v. 286; p. 1056.
Universal Chain Co. Inc., Stroudsburg, Pa. Chains. No. 143,203; May 24; v. 286; p. 852.
Universal Gasket & Manufacturing Co., Chicago, Ill. Copper gaskets. No. 142,162; May 3; v. 286; p. 191.
Universal Lamp Co., assignor to Universal Lamp Co., Chicago, Ill. Burner-tips for gas-lamps. No. 143,500; May 31; v. 286; p. 1054.
Uno Manufacturing Company, Mobile, Ala. Soap. No. 142,810; May 17; v. 286 p. 635.
Urban, George, Milling Company, Buffalo, N. Y. Wheat-flour. No. 143,501; May 31; v. 286; p. 1054.
Usbeck, George F., New York, N. Y. Folding music-roll holders which can be attached to pianos. No. 142,811; May 17; v. 286; p. 635.
Utilitool Company, Chicago, Ill. Combination -tools of the plier type. No. 142,812; May 17; v. 286; p. 635.
Uva Grape Products Company, San Francisco, Calif. Grape-juice. No. 142,343; May 10; v. 286; p. 406.
Vaeth, Laura M., Cleveland, Ohio. Hair-tonic. No. 143,502; May 31; v. 286; p. 1054.
Valley Electric Company. (See St. Louis Electrical Works, assignor.)
Van Dyke, George A., New Brunswick, N. J. Oil dressing and paste for softening, preserving, and waterproofing leather and ropes. No. 142,814; May 17; v. 286; p. 635.
Vandewart, Mark, New York, N. Y. Sweaters, coats, scarfs, &c. No. 142,813; May 17; v. 286; p. 635.
Vanderen, Michel E., Paris, France. Reeds of musical instruments. No. 142,815; May 17; v. 286; p. 635.
Vassilatos Bros., Chicago, Ill. Shoe polishes and dressings. No. 142,816; May 17; v. 286; p. 635.
Vath, Charles J., San Jose, Calif. Apple cider, ginger-ale, root-beer, sarsaparilla. No. 143,204; May 24; v. 286; p. 852.
Victorius, A. V., & Company, New York, N. Y. Hosiery. No. 142,163; May 3; v. 286; p. 191.
Visonneau, Sarah E., San Francisco, Calif. Carpet renovator and cleaner. No. 143,504; May 31; v. 286; p. 1054.
Vitreous Enameling Company, The, Cleveland, Ohio. Metal trays and pans. No. 142,903; May 17; v. 286; p. 642.
Vought & Williams, New York, N. Y. Rubber horseshoe-pads. No. 142,344; May 10; v. 286; p. 406.
Wabash Basket Co., Converse, Ind. Baskets made from wood splints. No. 142,345; May 10; v. 286; p. 406.
Wagman & Kates, Philadelphia, Pa. Children's dresses. No. 143,505; May 31; v. 286; p. 1054.
Wagner, Angeline E., Shreveport, La. Hair-grower. No. 143,207; May 24; v. 286; p. 852.
Walles Dove Bitumastic Limited, Newcastle-on-Tyne, England. Bituminous paint. Nos. 143,208–10; May 24; v. 286; p. 852.
Wakefield, F. W., Brass Company, The, Vermilion, Ohio. Electric-lamp fixtures and parts. No. 142,817; May 17; v. 286; p. 635.
Wakefield, Lucy F., Geneva, Fla. Fruit preserves, jellies, jams, &c. No. 142,164; May 3; v. 286; p. 191.
Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 142,165; May 3; v. 286; p. 191.
Waldes & Co., Prague, Bohemia. Cigarette-paper and portable makers. No. 142,820; May 17; v. 286; p. 635.
Waldes & Co., Prague, Bahemia. Cigarette-paper, portable makers, and tubes. Nos. 142,818–19; May 17; v. 286; p. 635.
Waldes & Co., Prague, Bahemia. Cigarette-papers, portable makers, and tubes. No. 142,821; May 17; v. 286; p. 635.
Waldes & Co., Prague, Bohemia. Cigarette-paper cut to size and ready for use, portable cigarette-makers, &c. No. 143,211; May 24; v. 286; p. 852.
Waldes & Co., Prague, Bohemia. Paper. No. 143,506; May 31; v. 286; p. 1054.
Walker, Mme. C. J., Mfg. Co., Indianapolis, Ind. Toilet preparations. No. 143,212; May 24; v. 286; p. 852.
Wallace Motor Products Corporation, New York, N. Y. Oil-gages for automobiles. No. 142,166; May 3; v. 286; p. 192.
Walsh, Thomas A., Yonkers, N. Y. Medicinal preparation. Nos. 142,167–8; May 3; v. 286; p. 192.
Walsh, Thomas A., Yonkers, N. Y. Medicinal preparations. No. 143,213; May 24; v. 286; p. 852.
Walworth Manufacturing Company, Boston, Mass. Steam, water, and gas pipe fittings and steam, water, and gas valves. No. 142,346; May 10; v. 286; p. 406.
Walworth Manufacturing Company, Boston, Mass. Pipe-fitting tools. No. 143,507; May 31; v. 286; p. 1054.
Wander Company, The, Chicago, Ill. Crystalline malt-extract products for use as a tonic. No. 143,214; May 24; v. 286; p. 852.
Wapakoneta Manufacturing Company, The, Wapakoneta, Ohio. Chemical fire-extinguishing material. No. 143,215; May 24; v. 286; p. 852.
Ward Baking Company, New York, N. Y. Bread. No. 143,216; May 24; v. 286; p. 852.
Warren & Campbell, New York, N. Y. Men's and boys' hats and caps. No. 143,527; May 31; v. 286; p. 1056.
Warwick Bottling Works, Chicago, Ill. Non-alcoholic fruit beverage. No. 143,217; May 24; v. 286; p. 852.

Washington Growers Packing Corporation, Vancouver, Wash. Dried fruits. No. 142,822; May 17; v. 286; p. 635.
Watkins Beverage Company, The, Bloomington, Ill. Non-alcoholic maltless beverages. No. 143,218; May 24; v. 286; p. 852.
Watson, Charles G., Lebanon, Mo. Laxative, cathartic, and bowel-tonic. No. 143,219; May 24; v. 286; p. 852.
Watson, John, Warren Company, Philadelphia, Pa. Shock-absorbers for vehicles. No. 143,508; May 31; v. 286; p. 1054.
Waukegan Drug Company, Waukegan, Ill. Hair-tonics. No. 143,220; May 24; v. 286; p. 852.
Wayne Works, Richmond, Va. Ferrous and non-ferrous metal castings. No. 142,823; May 17; v. 286; p. 635.
Weinstein, Louis J., New York, N. Y. Composition for making dental models and flask investments for molding vulcanite. No. 142,825; May 17; v. 286; p. 636.
Weinstein, Louis J., New York, N. Y. Composition for making dental models and investments. Nos. 142,826–7; May 17; v. 286; p. 636.
Weinstein, Louis J., New York, N. Y. Composition for making hard refractory dental models and investments. No. 142,828; May 17; v. 286; p. 636.
Weinstein, Louis J., New York, N. Y. Composition for making refractory dental investments. Nos. 142,820–30; May 17; v. 286; p. 636.
Weinstein, Louis J., New York, N. Y. Composition for making refractory dental models and investments. No. 142,824; May 17; v. 286; p. 635.
Weiser, David, Philadelphia, Pa. Tea. No. 142,831; May 17; v. 286; p. 636.
Weissenbach & Kay, Inc., New York, N. Y. Piece goods. No. 143,509; May 31; v. 286; p. 1054.
Weissman, Herman, New York, N. Y. Jewelry, precious, semi-precious, and artificial stones, and artificial pearls. No. 142,169; May 3; v. 286; p. 192.
Wenatchee Milling Co., Wenatchee, Wash. Wheat-flour. No. 142,904; May 17; v. 286; p. 642.
West Side Hay & Grain Co., assignors to J. K. Jennings, doing business as Diamond Mills, Evansville, Ind. Mixed feed. No. 142,833; May 17; v. 286; p. 636.
Westbrook, Florence T., San Francisco, Calif. Hand-painted glassware. No. 142,170; May 3; v. 286; p. 192.
Westenfelter, Charles W., Springfield, Ohio. Corn, bunion, and callous plasters. No. 142,171; May 3; v. 286; p. 192.
Westenfelter, Charles W., Springfield, Ohio. Laxative cold and grip remedy for la grippe, &c. No. 142,172; May 3; v. 286; p. 192.
Western Bottle Manufacturing Company, Chicago, Ill. Tooth, hair, cloth, hat, nail, hand, and face brushes. No. 143,510; May 31; v. 286; p. 1054.
Western Cartridge Company, East Alton, Ill. Blasting supplies, ammunition and accessories. No. 142,347; May 10; v. 286; p. 406.
Western Dry Goods Company, Seattle, Wash. Men's and boys' work-suits. No. 142,834; May 17; v. 286; p. 636.
Western Dry Goods Co., Seattle, Wash. Notions—namely, snap-fasteners. No. 143,511; May 31; v. 286; p. 1054.
Western Electric Company, Incorporated, New York, N. Y. Thermostat heat-regulators for stoves and furnaces, voltmeters, &c. No. 142,173; May 3; v. 286; p. 192.
Western Sausage & Provision Co., Inc., New York, N. Y. Dried sausages. No. 142,395; May 10; v. 286; p. 411.
Western Sausage & Provision Co., Inc., New York, N. Y. Sausages. No. 142,835; May 17; v. 286; p. 636.
Westfield Manufacturing Company, Westfield, Mass. Juvenile two-wheel coasting vehicles. No. 142,832; May 17; v. 286; p. 636.
Westinghouse Air Brake Co., Wilmerding Pa. Packing. No. 143,512; May 31; v. 286; p. 1054.
Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors therefor. No. 142,348; May 10; v. 286; p. 406.
Wheel Truing Brake Shoe Co., Detroit, Mich. Brake-shoes provided with an abrasive face for grinding car-wheels while in use. No. 142,223; May 3; v. 286; p. 196.
Whit Manufacturing Company, Inc., Buffalo, N. Y. Toys—viz., soap-bubble pipes. No. 143,513; May 31; v. 286; p. 1054.
Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated insoling. No. 142,224; May 3; v. 286; p. 196.
White Company, The, Baltimore, Md. Liquid-concrete hardener. No. 143,221; May 24; v. 286; p. 852.
White Flame Light Co., Grand Rapids, Mich. Lamp burners. No. 142,905; May 17; v. 286; p. 642.
White, Philip, Philadelphia, Pa. Sweaters. No. 142,349; May 10; v. 286; p. 406.
White, Philip, Philadelphia, Pa. Sweaters. No. 142,906; May 17; v. 286; p. 642.
White Star Candy Company, Albany, N. Y. Candy. No. 143,222; May 24; v. 286; p. 852.
Whiting Foundry Equipment Co., Harvey, Ill. Core-oven cars, charging-cars, &c. No. 143,223; May 24; v. 286; p. 853.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Rope of manila fiber. No. 142,836; May 17; v. 286; p. 636.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Manila rope. No. 142,837; May 17; v. 286; p. 636.
Whowell, Charles E., Brooklyn, N. Y. Chocolate-cocoanut bars. No. 142,838; May 17; v. 286; p. 636.
Widney Company, The, Chicago, Ill. Seat pads and cushions. No. 142,839; May 17; v. 286; p. 636.
Wilder Manufacturing Co., Inc., Brooklyn, N. Y. Luncheon outfit. No. 142,840; May 17; v. 286; p. 636.
Wildstein, Morris, Philadelphia, Pa. Butter. No. 142,174; May 3; v. 286; p. 192.
Wilkinson, Leslie M. (See Johnson, Willie S., assignor.)
Williams Chocolate Co., Scranton, Pa. Candy. No. 142,841; May 17; v. 286; p. 636.
Williams, D. T., Valve Company, Cincinnati, Ohio. Valves and cocks and metal pipe fittings. No. 142,907; May 17; v. 286; p. 643.
Williams, George B., Chicago, Ill. Magazines and periodicals published at monthly intervals. No. 142,350; May 10; v. 286; p. 406.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving-sticks. No. 142,396; May 10; v. 286; p. 411.
Williams, L. B., Findlay, Ohio. Salve for eczema, ringworm, and skin-poison, &c. No. 142,175; May 3; v. 286; p. 192.
Williams Sealing Corporation, The, Waterbury, Conn. Bottle-caps. No. 143,271; May 24; v. 286; p. 859.
Wilson, George C., Tyrone, Pa. Laxative pills. No. 142,176; May 3; v. 286; p. 192.
Wilson, George C., Tyrone, Pa. Salve for the skin and mucous membrane. No. 143,224; May 24; v. 286; p. 853.
Wilson, George C., Tyrone, Pa. Liniment. No. 143,225; May 24; v. 286; p. 853.
Wilson, H. A., Company, The, Newark, N. J. Metal products. No. 142,177; May 3; v. 286; p. 192.
Wilson, J. G., Corporation, The, Norfolk, Va. Ready-mixed paints. No. 142,397; May 10; v. 286; p. 411.
Wilson, John M., Meridian, Miss. Feed for horses, mules, &c. Nos. 142,351–2; May 10; v. 286; p. 406.
Wilson, John M., Meridian, Miss. Feed for horses, mules, hogs, &c. No. 142,844; May 17; v. 286; p. 636.
Wilson, M. V., Gosport, Ind. Writing-ink. No. 142,843; May 17; v. 286; p. 636.
Winchester Repeating Arms Company, New Haven, Conn. Firearms and ammunition and pyrotechnic supplies. No. 142,353; May 10; v. 286; p. 406.
Win-Her Washer Company, Des Moines, Iowa. Laundry-washing machines, wringers, and parts thereof. No. 142,845; May. 17; v. 286; p. 636.
Winne, D. P., Co., Incorporated, New York, N. Y. String, twine, cord, and vegetable-fiber rope. No. 142,846; May 17; v. 286; p. 636.
Wisansky, Louis, New York, N. Y. Butter. No. 143,514; May 31; v. 286; p. 1054.
Winstead Photo Finishing Company, Los Angeles, Calif. Photographic prints. No. 143,227; May 24; v. 286; p. 853.
Winthrop Chemical Company Inc., New York, N. Y. Remedy for rheumatism and similar complaints. No. 142,178; May 3; v. 286; p. 192.
Wire, A A, Co. Inc., Newark, N. J. Rubber-covered wire for electrical purposes. No. 143,226; May 24; v. 286; p. 853.
Wirt Company, Germantown, Pa. Electric heating-pads. No. 142,847; May 17; v. 286; p. 636.
Witcombe, McGeachin & Co., New York, N. Y. Printed cretonnes and decorative fabrics in the piece. No. 143,270; May 24; v. 286; p. 859.
Witt, Charles F., Minneapolis, Minn. Coffee. Nos. 142,179–80; May 3; v. 286; p. 192.
Witt, Charles F., Minneapolis, Minn. Coffee. No. 143,515; May 31; v. 286; p. 1054.
Wolfson Company, The, Chicago, Ill. Jewelry. No. 142,848; May 17; v. 286; p. 636.
Woodison, E. J., Co., The, Detroit, Mich. Liquid core compound. No. 142,354; May 10; v. 286; p. 406.
Woodward & Cochey, Inc., Lynn, Mass. Leather substitute, a manufactured or artificial leather. No. 142,181; May 3; v. 286; p. 192.
Woodward & Cochey, Inc., Lynn, Mass. Leather substitute. No. 142,849; May 17; v. 286; p. 636.
Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper, paper napkins and towels. No. 142,182; May 3; v. 286; p. 192.
Woytko, Mike, New Britain, Conn. Medicinal salve for the feet. No. 142,183; May 3; v. 286; p. 192.
Wrennick, Geo. W., St. Petersburg, Fla. Shoe polishes and dressing. No. 143,516; May 31; v. 286; p. 1054.
Wrigley, Wm., Jr., Company, Chicago, Ill. Candy-coated chewing-gum. No. 143,228; May 24; v. 286; p. 853.
Yale & Towne Mfg. Co., The, Stamford, Conn. Fasts, locks, and parts thereof, fasteners, &c. No. 142,850; May 17; v. 286; p. 636.
Yancey, George F., New York, N. Y. Typewriter-ribbons and carbon-paper. Nos. 142,184–5; May 3; v. 286; p. 192.
Yarn Novelty Co., New York, N. Y. Yarn. No. 143,229; May 24; v. 286; p. 853.
Yocum, John H., Newark, N. J. Synthetic tannin. No. 143,230; May 24; v. 286; p. 853.
Yukon Mill & Grain Co., Yukon, Okla. Pearl hominy, pancake flour, breakfast food, &c. No. 142,908; May 17; v. 286; p. 643.
Zalis, Samuel, Baltimore, Md. Articles of clothing. No. 142,399; May 10; v. 286; p. 411.
Zerbst Pharmaceutical Co., St. Joseph, Mo. Medicinal preparation. No. 143,517; May 31; v. 286; p. 1054.
Zipsmaster Baking Company, St. Paul, Minn. Bread. No. 143,231; May 24; v. 286; p. 853.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Abrahnm, A. G., Company, Moline, Ill. "Deltanut." (For Candy—Namely, Nut-Candy.) No. 22,943; May 31; v. 286; p. 1057.
Alco Co., The, Hickory, Pa. "Alco Auto Polish." (For Automobile-Polish.) No. 22,893; May 24; v. 286; p. 860.
American Grocers Society, Inc., Newark, N. J. "A. G. S." (For Coffee.) No. 22,944; May 31; v. 286; p. 1057.
Andee, Harry, Cleveland, Ohio. "Andee's Bed Bug and Roach Killer." (For Insecticides.) No. 22,945; May 31; v. 286; p. 1057.
Auerbach, D., & Sons, New York, N. Y. "Auerbach." (For Chocolate Candy.) No. 22,946; May 31; v. 286; p. 1057.
Auerbach & Sons, The, New York, N. Y. "Auerbach Animal Blocks." (For Sweet-Milk-Chocolate Blocks.) No. 22,894; May 24; v. 286; p. 860.
Beckman Company, The, Cleveland, Ohio. "Northern Ohio Woolware." (For Use Upon Wool Robes and Wool Shawls.) No. 22,857; May 3; v. 286; p. 197.
Beckman Company, The, Cleveland, Ohio. "Northern Ohio Woolware." (For Wool Robes and Wool Shawls.) No. 22,947; May 31; v. 286; p. 1057.
Binswanger & Co. (See Menasha Printing and Carton Company, assignors.)
Bieber-Marmon Manufacturing Co., Lima, Ohio. "Bieber Concentrated Liniment." (For a Liniment Known as Bieber Concentrated Liniment.) No. 22,890; May 17; v. 286; p. 644.
Bon I. Look Stores Company, The, Denver, Colo. "Westernaire." (For Canned Fruits, Vegetables, and Fish, Cane and Maple Syrups for Foods, Molasses, Strained Honey, Apple-Butter, Fruit Jams, Pork and Beans, Coffee, and Ready-Mixed Paints.) No. 22,948; May 31; v. 286; p. 1057.
Bon I. Look Stores Company, The, Denver, Colo. "You Must Be Satisfied." (For Dried Fruits, Hominy-Grits, Chilli-Pods, Cocoa, Sugar, Tea, Spices, Cocoanut, Beans, Rice, Rolled Oats, Chocolate, Sago, Coffee, Tapioca, Barley, Sal Soda, Sulfur, Gloss-Starch, and Blue Vitriol.) No. 22,949; May 31; v. 286; p. 1057.
Brady, King, Chicago, Ill. "King Brady's Red Oil." (For Bottles of Liniment.) No. 22,895; May 24; v. 286; p. 860.
Buchert, Harold C., Springfield, Ohio. "Koff-No-Mor." (For a Remedy for Coughs, Colds, &c.) No. 22,950; May 31; v. 286; p. 1057.
Caruso, Michael, New Bedford, Mass. "Elder Tree Extract." (For a Medicinal Preparation of Oil Extracted from the Elder-Tree.) No. 22,858; May 3; v. 286; p. 197.
Christian Peper Tobacco Co., St. Louis, Mo. "Tooth Pick." (For Tobacco.) No. 22,951; May 31; v. 286; p. 1057.
Cinco Syrups and Fountains Company, Greenville, S. C. "Muscadine Toddy." (For Containers for Beverages of a Non-Alcoholic Nature.) No. 22,896; May 24; v. 286; p. 860.
City Dairy Co. (See Menasha Printing and Carton Company, assignor.)
Clark, Walter G., New York, N. Y. "Concentrated Sunripe Lemon Juice." (For Containers of Lemon-Juice or Wrappers Thereof.) No. 22,952; May 31; v. 286; p. 1057.
Clark, Walter G., New York, N. Y. "Concentrated Sunripe Orange Juice." (For Containers of Orange-Juice or Wrappers Thereof.) No. 22,953; May 31; v. 286; p. 1057.
Columbus Chemical Company, Columbus, Ga. "Smith's Prescription = 711." (For a Medicinal Preparation for the Treatment of Bladder, Kidney, and Allied Troubles and Genital Affections.) No. 22,954; May 31; v. 286; p. 1057.
Cook, Sam R., Rockport, Ind. "Old Kentucky Blended Blue Grass Rye." (For Tiny Bottles Containing Water, Few Grains of Rye, and Real Blades of Blue-Grass as an Advertising Novelty.) No. 22,897; May 24; v. 286; p. 860.
Dahnke-Walker Milling Co., Union City, Tenn. "Brag Bolted Meal." (For Cornmeal.) No. 22,859; May 3; v. 286; p. 197.
De Hoyos Bros., New York, N. Y. "Cural." (For Soap.) No. 22,860; May 3; v. 286; p. 197.
Del-Wit, William D., New York, N. Y. "Ferro-China Italia." (For Bottles Containing a Compound Medicinal Preparation.) No. 22,861; May 3; v. 286; p. 197.
Denebrink, B. T., Sheridan, Wyo. "Denebrink's Cuban Rose." (For Cigars.) No. 22,955; May 31; v. 286; p. 1057.
Devoe & Reynolds Co. Inc., New York, N. Y. "Daylight in Every Drop." (For Paints.) No. 22,862; May 3; v. 286; p. 197.
Eckenrode, John M., Pasadena, Calif. "Heck's Root Beer." (For Containers for Root-Beer.) No. 22,863; May 3; v. 286; p. 197.
Ennals & Company, Inc., Morristown, N. J. "Foresight." (For Boxes Containing Cigars.) No. 22,898; May 24; v. 286; p. 860.
Eureka Metal Polish Co. (Inc.), Chicago, Ill. "Eureka." (For Metal-Polish.) No. 22,864; May 3; v. 286; p. 197.
Fort Howard Paper Company, Green Bay, Wis. "Colonial." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,956; May 31; v. 286; p. 1057.
Fort Howard Paper Company, Green Bay, Wis. "Japanese Crepe." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,957; May 31; v. 286; p. 1057.
Fort Howard Paper Company, Green Bay, Wis. "Quality." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,958; May 31; v. 286; p. 1057.
Fort Howard Paper Company, Green Bay, Wis. "Snowflake Crepe." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,959; May 31; v. 286; p. 1057.
Franklin Baker Company, The, Philadelphia, Pa. "Baker's Cocoanut." (For Packaged Cocoanut.) No. 22,960; May 31; v. 286; p. 1057.
Free Brothers Company, Pittsburgh, Pa. "Washington Brand." (For Crates Containing Vegetables.) No. 22,899; May 24; v. 286; p. 860.
Furman, Paul, Lynn, Mass. "Superior Violet Ink." (For Writing and Copying Ink.) No. 22,865; May 3; v. 286; p. 197.
Ginso Chemical Company, St. Joseph, Mo. "Ginsos Electrofied Chlorine." (For an Electrofied Chlorin for Medical, Surgical, and Hospital Purposes.) No. 22,866; May 3; v. 286; p. 197.
Goff, S. B., & Sons Company., Camden, N. J. "Goff's Atlantic City Salt Water Taffy." (For Salt-Water Taffy.) No. 22,867; May 3; v. 286; p. 197.
Goldschmid, Edw., & Louis Lehman, Brooklyn, N. Y. "Red Seal Brand." (For Malt-Extract Syrup.) No. 22,961; May 31; v. 286; p. 1057.
Gould Millinery Co. Inc., The, Los Angeles, Calif. "Princess Hats." (For Ladies' and Children's Hats.) No. 22,900; May 24; v. 286; p. 860.
Gray-Juergens Co., Cincinnati, Ohio. "Zem-Zem." (For Non-Alcoholic Beverages.) No. 22,962; May 31; v. 286; p. 1057.
Harlan, O. A., & Co., San Jose, Calif. "Stanford." (For Dried Prunes.) No. 22,901; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "Freeze-Em Pickle." (For Cartons Containing Freeze-Em Pickle, a Meat-Curing Preparation. No. 22,902; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "'A' Condimentine." (For Cartons Containing "A" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) No. 22,903; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "'B' Condimentine." (For Cartons Containing "B" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) No. 22,904; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "Heller's Silver Shine." (For Cartons Containing Heller's Silver Shine, a Dry Powder Polish.) No. 22,905; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "Vacuum-Brand Garlic Compound." (For Cans Containing Vacuum Brand Garlic Compound, a Seasoning Product.) No. 22,906; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "Freeze-Em." (For Cans and Bottles Containing Freeze-Em, a Preparation for Cleaning Butchers' Utensils.) No. 22,907; May 24; v. 286; p. 860.
Heller, B., & Co., Chicago, Ill. "B. Heller & Co's Hog-Scald." (For Cans Containing a Preparation used for Scalding and Cleaning Hogs.) No. 22,963; May 31; v. 286; p. 1057.
Heller, B., & Co., Chicago, Ill. "Zanzibar-Carbon Brand Casing Yellow Mixture." (For Cans Containing a Preparation for Coloring the Outside of Smoked-Sausage Casings.) No. 22,964; May 31; v. 286; p. 1037.
Heller, B. & Co., Chicago, Ill. "Zanzibar-Carbon Brand Casing Brown Mixture." (For a Preparation for Coloring the Outside of Smoked-Sausage Casings.) No. 22,965; May 31; v. 286; p. 1057.
Heller, B., & Co., Chicago, Ill. "B. Heller & Co.'s Lard Purifier." (For Cartons Containing B. Heller & Co.'s Lard and Tallow Purifier.) No. 22,966; May 31; v. 286; p. 1057.
Hill, Clark & Co., Chicago, Ill. "Re Manufactured Machine Tools." (For Remanufactured Machines, Tools, and Parts Thereof.) No. 22,868; May 3; v. 286; p. 197.
Hill, Clark & Co., Chicago, Ill. "Machinery Merchants." (For Machinery, Tools, and Parts Thereof.) No. 22,869; May 3; v. 286; p. 197.

Hoffman Candy Co., Cleveland, Ohio. "Fluff-O-Lite." (For a Wrapper Inclosing Candy.) No. 22,908; May 24; v. 286; p. 860.

Hymes, Abraham, New York, N. Y. "Y. D. C." (For Yarn.) No. 22,967; May 31; v. 286; p. 1057.

Ilaria Bros., Newark, N. J. "Atropadine." (For a Preparation for the Treatment of Chronic Rheumatism, Lymphatic Enlargements, Burns, Lumbago, Frost Bites, Sprains, Eczema, and Sciatica.) No. 22,968; May 31; v. 286; p. 1057.

Irish, Frank C., New York, N. Y. "Mad." (For Nail-Polish.) No. 22,969; May 31; v. 286; p. 1057.

Jackson Brewing Company, New Orleans, La. "Jackson Lager Beer." (For Lager-Beer.) No. 22,909; May 24; v. 286; p. 860.

Johnson, Fred, De Ridder, La. "Johnson's Southern Home Bread." (For Wrappers for Loaves of Bread.) No. 22,910; May 24; v. 286; p. 860.

Kraft, H. E., Milwaukee, Wis. "Kraft's Kold Kapsules." (For Packages Containing a Remedy for Colds and La Grippe.) No. 22,970; May 31; v. 286; p. 1057.

Krank, Alfred J., St. Paul, Minn. "Lather Kream." (For Boxes Containing a Preparation Which is Used as a Shaving-Cream.) No. 22,911; May 24; v. 286; p. 860.

La Rock, R. M., Rutland, Vt. "The Marvelous Eye Wash." (For Eye-Wash.) No. 22,891; May 17; v. 286; p. 644.

Lavo Company of America, Milwaukee, Wis. "Dish Kleen." (For Containers Containing Cleansing-Powder Preparation.) No. 22,870; May 3; v. 286; p. 197.

Lezama, J. L., Empedrado, Habana, Cuba. "Limones." (For Containers for Cane-Sugar.) No. 22,871; May 3; v. 286; p. 197.

Linton, Roscoe S., Joplin, Mo. "Rooster Brand." (For Coffee.) No. 22,971; May 31; v. 286; p. 1057.

Little Crow Milling Co., Warsaw, Ind. "Little Crow Pancake Flour." (For Prepared Flour.) No. 22,972; May 31; v. 286; p. 1057.

Little Falls Dairy Co., Inc., Little Falls, N. Y. "Sweetened Condensed Milk Jersey Brand." (For Cans and Containers in Which Such Product is Sold.) No. 22,892; May 17; v. 286; p. 644.

Liversule Co., The, Columbus, Ga. "Liver-Sules." (For Bottles or Boxes Containing a Medicine for the Liver.) No. 22,973; May 31; v. 286; p. 1057.

Loose-Wiles Biscuit Company, Kansas City, Mo. "Dardanella." (For Candy.) No. 22,912; May 24; v. 286; p. 860.

McCubbin, John C., Fresno, Calif. "Unkist Honey." (For Honey.) No. 22,976; May 31; v. 286; p. 1058.

McQuay-Norris Mfg. Co., St. Louis, Mo. "McQuay-Norris Jiffy-Grip Piston Rings." (For Piston-Rings.) No. 22,888; May 10; v. 286; p. 412.

Menasha Printing and Carton Company, Menasha, Wis., assignors to Binswanger & Co., St. Joseph, Mo. "Jersey Cream." (For Wax-Paper Bread-Wrappers Containing Bread.) No. 22,913; May 24; v. 286; p. 860.

Menasha Printing and Carton Company, Menasha, Wis., assignors to Mountain Grove Creamery Ice and Electric Co., Mountain Grove, Mo. "Prairie Gold Creamery Butter." (For Cartons Containing Butter.) No. 22,914; May 24; v. 286; p. 860.

Menasha Printing and Carton Company, Menasha, Wis., assignor to City Dairy Co., Baltimore, Md. "Gardiner's Ice Cream De Luxe." (For Cartons Containing Ice-Cream.) No. 22,974; May 31; v. 286; p. 1057.

Menasha Printing and Carton Company., Menash, Wis., assignors to City Dairy Company, Baltimore, Md. "Gardiner's Purity Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,975; May 31; v. 286; p. 1057.

Milwaukee Paper Box Company, Milwaukee, Wis. "Garden Girl Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,872; May 3; v. 286; p. 197.

Milwaukee Paper Box Company, Milwaukee, Wis. "Sherwood Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,873; May 3; v. 286; p. 197.

Milwaukee Paper Box Company, Milwaukee, Wis. "Venus Chocolates." (For Boxes Containing Chocolate Brazil Nuts.) No. 22,977; May 31; v. 286; p. 1058.

Moore, E. J., Sons, Inc., New York, N. Y. "Sanger's Pro Tek-Tubes Prophylactic." (For a Preventive for Venereal Diseases.) No. 22,915; May 24; v. 286; p. 860.

Moreau, Victor, New Orleans, La. "U-No-Me." (For Cigars and Boxes Containing Same.) No. 22,978; May 31; v. 286; p. 1058.

Mountain Grove Creamery Ice and Electric Co. (See Menasha Printing and Carton Company, assignors.)

Nafziger Baking Company, Kansas City, Mo. "Nafziger Certified Bread." (For Bread.) No. 22,916; May 24; v. 286; p. 860.

National Brewing Company, New Orleans, La. "Dr. Root's Genuine Root Beer, Nature's Wonder Drink." (For Root-Beer.) No. 22,874; May 3; v. 286; p. 197.

Norris Inc., Atlanta, Ga. "Sugared Pecans." (For Candy.) No 22,875; May 3; v. 286; p. 197.

Oppy's Cigar Stores, Inc., New York, N. Y. "Oppy's Special." (For Boxes Containing Cigars.) No. 22,918; May 24; v. 286; p. 860.

Ottawa Condensing Co., The, Ottawa, Kans. "Golden Cream." (For Creamery-Butter.) No. 22,917; May 24; v. 286; p. 860.

Oxydene Mfg. Corp., Buffalo, N. Y. "Whip-Ezey." (For a Preparation for Whipping Thin Cream, Evaporated Milk, White of Eggs, and Top Cream.) No. 22,876; May 3; v. 286; p. 197.

Parker, Eugene, Baltimore, Md. "Parker's Dandruff Mange Treatment." (For a Medicinal Compound for Treating Dandruff and Mange.) No. 22,919; May 24; v. 286; p. 860.

Pasquale Ruggiano, New York, N. Y. "Ras Mangascia." (For Tonic for Hair and Scalp.) No. 22,877; May 3; v. 286; p. 197.

Peninsular Chemical Co., Seattle, Wash. "Renuzit." (For Containers Containing Furniture Cleaner and Dressing.) No. 22,979; May 31; v. 286; p. 1058.

Pyrokuro Company, Pittsburgh, Pa. "Pyrokuro." (For a Liquid Perparation Intended for the Treatment of Bleeding Gums.) No. 22,920; May 24; v. 286; p. 860.

Reich, Alter, New York, N. Y. "Re Ju-Tonic." (For a Preparation in Powder Form for a Stimulating-Tonic for the Blood and Nerves.) No. 22,922; May 24; v. 286; p. 860.

Reitman Mfg. Co., Chicago, Ill. "Pollyanna Ready to Make Doll Clothes Sets." (For Doll-Clothes.) No. 22,921; May 24; v. 286; p. 860.

Richland Milling Company, Belleville, Ill. "Perfect Bakings Always with Perfect Day Flour." (For Flour.) No. 22,923; May 24; v. 286; p. 860.

Richmond Chase Company, San José, Calif. "Everybody's." (For Canned Apricots.) No. 22,924; May 24; v. 286; p. 860.

Russell-Greiver-Russell, Chicago, Ill. "Animated Cartoon of Auto Alley." (For Non-Serial Motion-Picture Films.) No. 22,878; May 3; v. 286; p. 197.

Russell-Greiver-Russell, Chicago, Ill. "Animated Cartoon of Gasoline Alley." (For Non-Serial Motion-Picture Films.) No. 22,879; May 3; v. 286; p. 197.

Sanitwax Paper Co., Kalamazoo, Mich. "A B C." (For Bread.) No. 22,980; May 31; v. 286; p. 1058.

Sanitwax Paper Co., Kalamazoo, Mich. "Ideal." (For Bread.) No. 22,981; May 31; v. 286; p. 1058.

Saqui, William, New York, N. Y. "$10,000 for a Match." (For Cigars.) No. 22,925; May 24; v. 286; p. 860.

Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Coffee.) No. 22,926; May 24; v. 286; p. 860.

Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Cream of Tartar.) No. 22,927; May 24; v. 286; p. 860.

Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Flavoring Extracts—viz., Vanilla.) No. 22,928; May 24; v. 286; p. 860.

Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Spices—viz., Pepper.) No. 22,929; May 24; v. 286; p. 861.

Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Tea.) No. 22,930; May 24; v. 286; p. 861.

Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Baking-Powder.) No. 22,931; May 24; v. 286; p. 861.

Star Candy Co., Chicago, Ill. "Goodies." (For Candies—Namely, Orange Fruit Tablets.) No. 22,880; May 3; v. 286; p. 197.

Steidle, Joseph P., Wilkes-Barre, Pa. "Wax for Dancing Floors Only." (For Packages Containing a Composition Specially Adapted for Floors.) No. 22,982; May 31; v. 286; p. 1058.

Sterrick, Harrison D., Pittsburgh, Pa. "2 in 1 Malt Extract." (For Cans Containing Malt Extract.) No. 22,983; May 31; v. 286; p. 1058.

Sterrick, Harrison D., Pittsburgh, Pa. "All in One Malt Extract." (For Cans Containing Malt Extract.) No. 22,984; May 31; v. 286; p. 1058.

Sterrick, Harrison D., Pittsburgh, Pa. "4 in 1 Malt Extract." (For Cans Containing Malt Extract.) No. 22,985; May 31; v. 286; p. 1058.

Sterrick, Harrison D., Pittsburgh, Pa. "Gold Medal Malt Extract." (For Cans Containing Malt Extract, Hops Extract, and Sugar.) No. 22,986; May 31; v. 286; p. 1058.

Sterrick, Harrison D., Pittsburgh, Pa. "Blue Raven Malt Extract." (For Cans Containing Malt Extract.) No. 22,987; May 31; v. 286; p. 1058.

Sterrick, Harrison D., Pittsburgh, Pa. "Our Old Monastery Malt Extract." (For Cans Containing Malt Extract.) No. 22,988; May 31; v. 286; p. 1058.

Stevens Manufacturing Co., Fall River, Mass. "Stevens Crochet Bedspread." (For Bedspreads.) No. 22,932; May 24; v. 286; p. 861.

Stevens Manufacturing Co., Fall River, Mass. "Stevens Satin Bedspread." (For Bedspreads.) No. 22,933; May 24; v. 286; p. 861.

Stevens Manufacturing Co., Fall River, Mass. "Stevens Brocade Bedspread." (For Bedspreads.) No. 22,934; May 24; v. 286; p. 861.

Stevens Manufacturing Co., Fall River, Mass. "Stevens Durée Bedspreads." (For Bedspreads.) No. 22,935; May 24; v. 286; p. 861.

Street, M. E., & Co., Rector, Ark. "Valminzo." (For Containers for an Ointment for the Treatment of Burns and Scalds, Piles, Sore Eyes, Eczema, Blood-Poison, Sore Mouth, Chronic or Old Sores, Ulcers, Insect-Bites, Inflammation or Irritation of Any Part of the Body.) No. 22,881; May 3; v. 286; p. 197.

Sweet, Arthur J., Milwaukee, Wis. "Vialux." (For a Line of Street-Lighting Units.) No. 22,989; May 31; v. 286; p. 1058.

Teitelbaum, David, New York, N. Y. "Bon-Ton." (For Hair-Nets or Containers for Hair-Nets.) No. 22,889; May 10; v. 286; p. 412.

Van Camp Packing Company, The, Indianapolis, Ind. "Swiss Style Sweet Chocolate." (For Chocolate.) No. 22,936; May 24; v. 286; p. 861.

Van Camp Packing Company, The, Indianapolis, Ind. "Van Camp's Almond Sweet Milk Chocolate." (For Almond Sweet Milk-Chocolate.) No. 22,937; May 24; v. 286; p. 861.

Vi-Tone Products Co., Albany, N. Y. "Vi-Tone." (For a Liquid Medicinal Compound for Nervous and Kindred Diseases.) No. 22,990; May 31; v. 286; p. 1058.

Vogan Candy Company, Portland, Oreg. "Oregon Cherries." (For Chocolate-Covered Cherries.) No. 22,991; May 31; v. 286; p. 1058.

Watkins, J. R., Company, The, Winona, Minn. "Watkins Ad Rubber Patch Outfit." (For Cartons Containing a Rubber-Patch Outfit.) No. 22,938; May 24; v. 286; p. 861.

Welch Grape Juice Company, The, Westfield, N. Y. "Strawberrilade." (For a Spread of Strawberry Flavor for Bread, Toast, and Muffins.) No. 22,939; May 24; v. 286; p. 861.

Wells, Corlune B., Portland, Oreg. "Wellscraft." (For Decorated Candles.) No. 22,940; May 24; v. 286; p. 861.

Willer & Riley (1910) Ltd., Manchester, England. "Best Quality Sweet P's." (For Dried Peas.) No. 22,882; May 3; v. 286; p. 197.

Willer & Riley (1910) Ltd., Manchester, England. "Bunch of Pods." (For Dried Peas.) No. 22,883; May 3; v. 286; p. 197.

Willer & Riley (1910) Ltd., Manchester, England. "Willer's English Peas." (For Dried Peas.) No. 22,884; May 3; v. 286; p. 197.

Willer & Riley (1910) Ltd., Manchester, England. "Natural No. 2 Green Peas." (For Dried Peas.) No. 22,885; May 3; v. 286; p. 197.

Willer & Riley (1910) Ltd., Manchester, England. "Natural No. 1 Garden Peas." (For Dried Peas.) No. 22,886; May 3; v. 286; p. 197.

Willer & Riley (1910) Ltd., Manchester, England. "Willer's English Peas." (For Dried Peas.) No. 22,887; May 3; v. 286; p. 197.

Wolverine Spice Company, Grand Rapids, Mich. "Py-E-Ta." (For a Mixture for Filling Pies and Making other Desserts.) No. 22,941; May 24; v. 286; p. 861.

Ye Olden Times Company, New York, N. Y. "Referendum." (For Malt.) No. 22,942; May 24; v. 286; p. 861.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Acme Packing Co., Chicago, Ill. "A Feast of Flavor." (For Advertising Purposes for Canned Sausages.) No. 5,589; May 3; v. 286; p. 198.

Acme Packing Co., Chicago, Ill. "A Good Sandwich is a Meal Anywhere." (For Advertising Purposes for Canned Corn-Beef.) No. 5,590; May 3; v. 286; p. 198.

Acme Packing Co., Chicago, Ill. "Here is Something New Virginies." (For Advertising Canned Meat-Patties.) No. 5,604; May 31; v. 286; p. 1058.

Acme Packing Co., Chicago, Ill. "Here's the Reflection of Corned Beef." (For Advertising Canned Corned Beef.) No. 5,605; May 31; v. 286; p. 1058.

Amalgamated Tire Stores Corporation, New York, N. Y. "Your Favorite Tire." (For Advertising Purposes for Tires.) No. 5,596; May 24; v. 286; p. 861.

American Druggists Syndicate, Long Island City, N. Y. "Vogue 'End-O-Spire." (For Advertising Purposes for a Toilet Preparation which Prevents Perspiration.) No. 5,591; May 3; v. 286; p. 198.

Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut." (For Advertising Purposes for Ginger-Ale.) No. 5,592; May 3; v. 286; p. 198.

Carleton & Hovey Company, Lowell, Mass. "Danger of Serious Illness." (For Advertising Purposes for Father John's Medicine.) No. 5,597; May 24; v. 286; p. 861.

Frictionless Metal Company, Chattanooga, Tenn. "Frictionless Rearing Metal." (For Use in Reference to Bearing Metal.) No. 5,593; May 3; v. 286; p. 198.

Genesee Pure Food Company, The, Le Roy, N. Y. "The Grown-Ups." (For Advertising Purposes for a Dessert Preparation.) No. 5,598; May 24; v. 286; p. 861.

Genesee Pure Food Company, The, Le Roy, N. Y. "Dorothy's Fifth Birthday." (For Advertising Purposes for a Dessert Preparation.) No. 5,599; May 24; v. 286; p. 861.

Goldsmith, J., Jr., Providence, R. I. "Sentry-Uniform Slide Easy Hair Curlers." (For Advertising Purposes for Hair-Curlers.) No. 5,606; May 31; v. 286; p. 1058.

Goldsmith, J., Jr., Providence, R. I. "The Sentry-Uniform Hair Bow Fastener." (For Advertising Purposes for Hair-Bow Fasteners.) No. 5,607; May 31; v. 286; p. 1058.

Goodyear Tire & Rubber Co., The, Akron, Ohio. "Goodyear Belts Give Good Wear." (For Advertising Purposes for Rubber Belting.) No. 5,595; May 17; v. 286; p. 644.

Haynes Automobile Co., Kokomo, Ind. "The Haynes Special Speedster." (For Advertising Purposes for Automobiles.) No. 5,608; May 31; v. 286; p. 1058.

Haynes Automobile Company, Kokomo, Ind. "The New Series Haynes Tourister." (For Advertising Purposes for Automobiles.) No. 5,609; May 31; v. 286; p. 1058.

Haynes Automobile Company, The, Kokomo, Ind. "Truth in Advertising." (For Advertising Purposes for Automobiles.) No. 5,610; May 31; v. 286; p. 1058.

Haynes Automobile Company, The, Kokomo, Ind. "Haynes 1921 Closed Cars." (For Advertising Purposes for Automobiles.) No. 5,611; May 31; v. 286; p. 1058.

Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegars, Pints, Quarts, Half Gallons, Perfect, Salad Dressing and Heinz Vinegars Go Together." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) No. 5,612; May 31; v. 286; p. 1058.

Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Oven Baked Beans, Foods That Taste Good—Foods That Do You Good." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 5,613; May 31; v. 286; p. 1058.

Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Oven Baked Beans, That Heinz Baked Beans Are As Good As They Are." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 5,614; May 31; v. 286; p. 1058.

Hood Rubber Company, Watertown, Mass. "Hood Tires." (For Advertising Purposes for Motor-Vehicle Tires.) No. 5,615; May 31; v. 286; p. 1058.

Kaiser & Co., New York, N. Y. "Every One A Winner." (For Advertising Purposes for Hosiery.) No. 5,616; May 31; v. 286; p. 1058.

Kelly, George, Columbus, Ohio. "His Master's Choice." (For Advertising Purposes for Cigars.) No. 5,617; May 31; v. 286; p. 1058.

Oslason, John, Fall River, Mass. "What the World Rests On." (For Advertising Purposes for Mattresses, Pillows, Bed-Springs.) No. 5,600; May 24; v. 286; p. 861.

Palmolive Company, The, Milwaukee, Wis. "Making a Beauty Treatment." (For Advertising Purposes for Palmolive Soap.) No. 5,594; May 3; v. 286; p. 198.

Robel and Bryant, Inc., Chicago, Ill. "Ridewell Tires." (For Advertising Purposes for Automobile-Tires.) No. 5,601; May 24; v. 286; p. 861.

Stephens, A. B., Chicago, Ill. "Star Tailors." (For Advertising Purposes for Men's Tailored Suits.) No. 5,602; May 24; v. 286; p. 861.

Vic Manufacturing Co., New York, N. Y. "Vic—The Master Blade. Try It In Your Razor." (For Advertising Purposes for Safety-Razor Blades.) No. 5,603; May 24; v. 286; p. 861.

Western Grocery Co., Marshalltown, Iowa. "Chocolate Cream." (For Coffee.) No. 5,618; May 31; v. 286; p. 1058.

DISCLAIMERS.

Krug, William H., Fond du Lac, Wis.; disclaimer filed by patentee. Means for securing anti-skid chains to vehicle-wheels. No. 1,330,876; disclaimer filed May 16, 1921; v. 286; p. 646.

Willis, Fred V., Oswego, Ill.; disclaimer filed by patentee. Liquid-elevating apparatus. No. 1,345,725; disclaimer filed Apr. 25, 1921; v. 286; p. 1.

Wilson, Campbell L., La Grange, Ill.; disclaimer filed by assignee, Automatic Electric Company. Telephone system. No. 1,267,743; disclaimer filed Apr. 18, 1921; v. 286; p. 1.

Wood, William H., Cleveland, Ohio; disclaimer filed by patentee. Lamp. No. 1,235,275; disclaimer filed Apr. 30, 1921; v. 286; p. 205.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF MAY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal supporter. J. L. Holt. No. 1,379,101; May 24; v. 286; p. 701.
Accordions, Shutter for. S. Rabuazzo. No. 1,377,093; May 3; v. 286; p. 136.
Accounting-machines, Total-taking means for. W. A. Lasker. No. 1,376,555; May 3; v. 286; p. 33.
Accumulator, Electric. G. Marconi. No. 1,377,722; May 10; v. 286; p. 312.
Acetylene-generator. E. Luder. No. 1,377,595; May 10; v. 286; p. 288.
Acid Aralkyl ester of 2-phenylquinolin-4-carboxylic. A. Gams and O. Kaiser. No. 1,378,343; May 17; v. 286; p. 484.
Acid colors, Precipitating. A. Lendle. No. 1,378,418; May 17; v. 286; p. 498.
Acid, Manufacture of hydrobromic. E. Theimer. No. 1,379,731; May 31; v. 286; p. 895.
Acid-phosphate apparatus. R. E. Forbis. No. 1,376,612; May 3; v. 286; p. 44.
Acid, Production of maleic. J. M. Weiss and C. R. Downs. No. 1,377,534; May 10; v. 286; p. 276.
Adding-machines, Paper-feed alarm for. T. P. Martin, Jr. No. 1,378,887; May 24; v. 286; p. 661.
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Counter display folding box. | Piston core-box.
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Keyboard finger-guide. I. Helguers. No. 1,377,070; May 3; v. 286; p. 132.

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Kiln, Downdraft. A. W. F. Weyers. No. 1,379,324; May 24; v. 286; p. 744.

Kilns, Baffle for combustion-chambers of tunnel-. J. B. Owens. No. 1,379,123; May 24; v. 286; p. 706.

Kilns, Combustion-chamber for tunnel-. J. B. Owens and E. P. Ogden. No. 1,378,190; May 17; v. 286; p. 455.

Kilns, Cooling means for tunnel-. J. B. Owens. No. 1,379,714; May 31; v. 286; p. 891.

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- Button-hole knife.
- Drawknife.
- Embroidery-knife.
- Straight-line knife.

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Lasts, Machine for shaping uppers to. B. Jorgensen. No. 1,379,924; May 31; v. 286; p. 931.
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Automobile keyless lock. Motor-meter lock.
Combination-lock. Motor-vehicle lock.
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Stem winding and setting device. J. A. Freund. No. 1,378,408; May 17; v. 286; p. 496.
Stencil-blanks, Machine for impressing characters on. S. Elliott. No. 1,378,771; May 17; v. 286; p. 567.
Stencil-character punch and making same. A. J. Bradley. No. 1,378,520; May 17; v. 286; p. 518.
Stencil-cutting apparatus. E. G. Clark. No. 1,377,979; May 10; v. 286; p. 363.
Stepladder. M. W. Reeves. No. 1,379,419; May 24; v. 286; p. 762.
Sterilization or pasteurization of liquids. A. Müllertz. No. 1,379,875; May 31; v. 286; p. 921.
Sterilizer. J. B. Pentz. No. 1,377,726; May 10; v. 286; p. 313.
Sterilizing. J. C. Baker. No. 1,378,644; May 17; v. 286; p. 542.
Sterilizing surgical instruments and other articles. J. B. Pentz. No. 1,377,725; May 10; v. 286; p. 313.
Stiffener and car-door hinge, Combined. L. G. Miller. No. 1,377,717; May 10; v. 286; p. 311.
Still. N. Bologa. No. 1,379,520; May 24; v. 286; p. 781.
Still. D. L. Newton and N. H. Anderson. No. 1,376,631; May 3; v. 286; p. 48.

Stirrup. J. P. Nami. No. 1,378,713; May 17; v. 286; p. 555.
Stitching machine, Hole-. H. Unger. No. 1,376,658; May 3; v. 286; p. 52.
Stoker. J. T. Arnold. No. 1,379,672; May 31; v. 286; p. 884.
Stoker, Locomotive-. N. M. Lower. No. 1,377,259; May 10; v. 286; p. 224.
Stoker, Locomotive-. N. M. Lower. No. 1,379,306; May 24; v. 286; p. 740.
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Stone and manufacturing, Imitation. S. Hashimoto. No. 1,377,130; May 3; v. 286; p. 143.
Stone and other material, Machine for spreading crushed. W. O. and J. R. King. No. 1,376,944; May 3; v. 286; p. 108.
Stone or brick, Artificial. W. L. Sanderson. No. 1,376,464; May 3; v. 286; p. 17.
Stones, Machine for grinding pallet-. E. Loosli. No. 1,378,364; May 17; v. 286; p. 488.
Stones, Machine for shaping sharpening-. M. A. Eaton. No. 1,377,119; May 3; v. 286; p. 141.
Stool, Motorman's. L. G. Franz. No. 1,377,332; May 10; v. 286; p. 239.
Stool or chair, Folding and extension. R. Sejnoha. No 1,379,129; May 24; v. 286; p. 707.
Stools, Floor-fastening for store-. F. W. Cook. No. 1,380,041; May 31; v. 286; p. 953.
Stop-motion device. H. S. Jones and A. P. Cullinan. No. 1,377,587; May 10; v. 286; p. 286.
Stop-motion device. W. S. Mills and H. E. Bisaillon. No. 1,380,003; May 31; v. 286; p. 946.
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Pipe-stopper.
Storage battery. T. A. Edison. No. 1,377,194; May 10; v. 286; p. 211.
Storage battery. T. A. Edison. No. 1,379,088; May 24; v. 286; p. 699.
Storage battery. C. D. Galloway. No. 1,376,932; May 3; v. 286; p. 105.
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Storage battery. T. A. Willard. No. 1,377,995; May 10; v. 286; p. 306.
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Store, Self-serving. H. Lee. No. 1,378,417; May 17; v. 286; p. 498.
Stores and the like, Transfer system for department. M. Liebman and G. E. Doughty. No. 1,376,950; May 3; v. 286; p. 109.
Stove, Combination heating and cooking. S. Heath. No. 1,378,859; May 24; v. 286; p. 656.
Stove, Combined gas heating and cooking. A. Schmilowitz. No. 1,379,701; May 31; v. 286; p. 889.
Stove, Electric. S. I. Phelps. No. 1,376,829; May 3; v. 286; p. 85.
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Stove, Gas-burning. C. H. Werlin. No. 1,378,071; May 17; v. 286; p. 433.
Stove, Gas-engine. J. O. Terrell. No. 1,379,138; May 24; v. 286; p. 709.
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Stove reservoirs, Valve for oil-. J. S. Brennan. No. 1,376,858; May 3; v. 286; p. 91.
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Strainer. W. S. Elliott. No. 1,380,114; May 31; v. 286; p. 967.
Strainer, Revolving suction-. J. W. Æ. Elling. No. 1,377,765; May 10; v. 286; p. 321.
Strap-lock for containers. R. C. Griffith. No. 1,380,204; May 31; v. 286; p. 984.
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Strip-perforator. M. C. Indahl. No. 1,378,414; May 17; v. 286; p. 497.
Stripping and husking machine. A. F. Pando. No. 1,379,208; May 24; v. 286; p. 722.
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Submarines, Disappearing gun for. T. M. Gunn. No. 1,376,536; May 3; v. 286; p. 29.
Submersible bodies to rise or sink, Device for causing. E. H. Meden. No. 1,379,273; May 24; v. 286; p. 734.
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Coin-controlled electric switch. Overload-switch.
Railway-switch.
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Child's play-table.
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Operating-table.
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Cabinet, Phonograph-. H. Knaub. No. 58,031; May 31; v. 286; p. 1014.
Can-opener. H. Tilt. No. 57,798; May 3; v. 286; p. 157.
Candle-holder. L. V. Lavell. No. 57,920; May 17; v. 286; p. 585.
Candy-package. A. Rozowsky. No. 57,864; May 10; v. 286; p. 378.
Canopy. M. Klein. No. 57,919; May 17; v. 286; p. 585.
Card, Playing-. R. E. Samuel. No. 57,994; May 24; v. 286; p. 803.
Cards, Set of playing-. C. K. Frederick. No. 57,896; May 17; v. 286; p. 581.
Carriage, Collapsible baby-. M. S. Dunkelberger. No. 57,773; May 3; v. 286; p. 153.
Casket, Beauty-cream. M. Ubelmann. No. 57,954; May 17; v. 286; p. 591.
Chain-loop. J. C. Virden. No. 58,002; May 24; v. 286; p. 804.
Chair. A. Wanner, Jr. No. 57,877; May 10; v. 286; p. 380.

Chandelier. F. M. Poritz. Nos. 57,785–6; May 3; v. 286; pp. 155–6.
Chest or similar article. M. B. Lockhart. No. 57,981; May 24; v. 286; p. 801.
Cigar-lighter. E. P. Hersey. No. 57,837; May 10; v. 286; p. 373.
Clock and phonograph-cabinet, Combined. S. Crimi. No. 57,892; May 17; v. 286; p. 581.
Clothes-wringer frame. H. O. Bartlett. No. 58,010; May 31; v. 286; p. 1010.
Coal-bin. A. Spence. No. 57,869; May 10; v. 286; p. 379.
Collar-holder. E. I. Rogers, Jr. No. 57,863; May 10; v. 286; p. 378.
Color-mixer. C. D. Upton. No. 57,955; May 17; v. 286; p. 591.
Compressors and motors, Housing for electric air. S. D. Black and A. G. Decker. No. 57,812; May 10; v. 286; p. 369.
Condiment-shaker. M. McCarthy. No. 57,848; May 10; v. 286; p. 375.
Confectionery or chewing-gum unit. G. H. Paine. No. 58,042; May 31; v. 286; p. 1016.
Cup. F. J. Kristofek. No. 57,844; May 10; v. 286; p. 374.
Curtain-pole bracket. N. Cimino. No. 57,817; May 10; v. 286; p. 370.
Cycles, Side car for motor-. O. Lemieux and G. Liboiron. No. 58,037; May 31; v. 286; p. 1015.
Direction-indicator. I. D. Howell. No. 57,910; May 17; v. 286; p. 583.
Dish. F. S. Crowell. Nos. 57,819–21; May 10; v. 286; p. 370.
Dish, Bonbon-. H. and L. Farber. No. 57,827; May 10; v. 286; p. 371.
Doll-wagon. C. J. Kern. No. 58,030; May 31; v. 286; p. 1014.
Dough-mixer. F. X. Lauterbur. Nos. 58,034–5; May 31; v. 286; pp. 1014–15.
Egg-tester. J. K. and E. K. Martinka. No. 57,988; May 24; v. 286; p. 602.
Electric-bulb holder. A. Spaniak. No. 57,942; May 17; v. 286; p. 589.
Electric-light support, Portable-. C. T. Wittstein. No. 58,006; May 24; v. 286; p. 805.
Emblem or badge. A. M. Pond. No. 58,045; May 31; v. 286; p. 1016.
Fan. W. Brown. No. 57,816; May 10; v. 286; p. 369.
Film-reel. E. S. Porter. No. 57,860; May 10; v. 286; p. 377.
Finger-ring. F. Amati. No. 58,008; May 31; v. 286; p. 1010.
Flashlight-head. A. G. Arnoll. No. 57,760; May 3; v. 286; p. 151.
Flower-holder. E. L. Knowles. No. 57,843; May 10; v. 286; p. 374.
Flytrap. J. Baj and L. Marciniak. No. 58,009; May 31; v. 286; p. 1010.
Footwear, Infant's. J. Tweedie. No. 58,051; May 31; v. 286; p. 1017.
Fruit-dish or article of similar nature. F. S. Crowell. Nos. 57,822–4; May 10; v. 286; p. 371.
Fuse and plug receptacle box, Combined. W. C. Hollins and F. P. Arrousez. No. 57,975; May 24; v. 286; p. 800.
Game. H. M. Becker. No. 58,012; May 31; v. 286; p. 1011.
Game-board. W. S. Loring. No. 57,982; May 24; v. 286; p. 801.
Game-board. E. Sutton. No. 57,947; May 17; v. 286; p. 589.
Glass vessel. M. A. Smith. No. 57,997; May 24; v. 286; p. 803.
Goblet or similar article of glassware. A. E. Sehlbach. No. 57,933; May 17; v. 286; p. 587.
Golf-putter head. A. A. Kraenter. No. 57,980; May 24; v. 286; p. 801.
Goods or veilings, Ticket for net. E. Jacob. No. 57,838; May 10; v. 286; p. 373.
Gun, Grease-. C. W. Manzel. No. 57,987; May 24; v. 286; p. 802.
Gun, Oil-. C. W. Manzel. No. 57,986; May 24; v. 286; p. 802.
Hairpin. T. W. Saul. No. 57,995; May 24; v. 286; p. 803.
Handbag-frame. M. Sloane. No. 57,868; May 10; v. 286; p. 379.
Handle for spoons, forks, or similar articles. A. G. Kintz. No. 57,779; May 3; v. 286; p. 154.
Hats, Crease-retaining device for. F. J. Schalow. No. 57,996; May 24; v. 286; p. 803.
Headlight. P. R. Collier. Nos. 57,890–1; May 17; v. 286; p. 580.
Headlight-lens. J. H. Howard. No. 57,909; May 17; v. 286; p. 583.
Heel-plate. T. B. Fadum. No. 57,826; May 10; v. 286; p. 371.
Hollow tableware, Article of. V. Gaertner. Nos. 57,832–3; May 10; v. 286; p. 372.
Ignition-contactor. A. A. Kent. No. 57,914; May 17; v. 286; p. 584.
Ignition-shield, Automobile. E. O. Divine. No. 57,771; May 3; v. 286; p. 153.
Jar, Fruit-. L. A. Drey and J. L. Hiatt. No. 57,772; May 3; v. 286; p. 153.
Key-ring. C. H. Payne. No. 57,928; May 17; v. 286; p. 587.
Knife and fork cleaner. J. J. Gottfried. No. 58,024; May 31; v. 286; p. 1013.
Knife-handle. F. J. Shively. No. 57,935; May 17; v. 286; p. 588.
Lamp. R. W. Poe. No. 58,044; May 31; v. 286; p. 1016.
Lamp. J. Smith. Nos. 57,938–40; May 17; v. 286; p. 588.
Lamp and talking-machine casing, Combined. W. Hucal. No. 57,911; May 17; v. 286; p. 584.
Lamp body, Vehicle-. M. S. Haselton. No. 57,974; May 24; v. 286; p. 800.
Lamp, Portable. W. R. Boisvert. Nos. 57,884–5; May 17; v. 286; p. 579.
Lamp-shade. D. L. Bevan. No. 58,013; May 31; v. 286; p. 1011.
Lamp-shade. E. H. Strauss. No. 57,793; May 3; v. 286; p. 157.
Lamp-socket, Plural. A. C. Recker. No. 57,930; May 17; v. 286; p. 587.
Lamp-stand and smoking set, Combination. S. M. Israel. Nos. 58,027–8; May 31; v. 286; p. 1013.
Lantern-globe, Combined Fresnel and plain. W. N. Manuel and E. Pascucci. No. 57,984; May 24; v. 286; p. 801.
Lantern-globe, Fresnel. W. N. Manuel and E. Pascucci. No. 57,985; May 24; v. 286; p. 802.
Lighting-fixture. M. Klein. Nos. 57,915-17; May 17; v. 286; pp. 584–5.
Lighting-fixture arm. E. A. Walker. No. 57,957; May 17; v. 286; p. 591.
Lighting-fixture bowl-hook. L. R. Wellman. No. 58,003; May 24; v. 286; p. 804.
Lighting-fixture canopy. G. V. Strahan and F. W. Mathieu; No. 57,944; May 17; v. 286; p. 589.
Lighting-fixture, Ceiling-plate for a. G. V. Strahan and F. W. Mathieu. No. 57,943; May 17; v. 286; p. 589.
Lighting-fixture plate. E. A. Walker. No. 57,956; May 17; v. 286; p. 591.
Lighting-fixture plate. L. R. Wellman. No. 57,803; May 3; v. 286; p. 158.
Lighting-fixtures, Bracket-back for. M. Klein. No. 57,918; May 17; v. 286; p. 585.
Lighting-fixtures, Socket-cover for. G. V. Strahan and F. W. Matthieu. Nos. 57,945–6; May 17; v. 286; p. 589.
Lingerie-clasp. C. G. Hultman. No. 58,025; May 31; v. 286; p. 1013.
Matches, Holder for book-. E. A. Merritt. No. 57,923; May 17; v. 286; p. 586.
Measuring instrument, Electrical. H. I. Shire. No. 57,934; May 17; v. 286; p. 587.
Meters or similar measuring instruments, Face-plate for. M. Smithey. No. 57,941; May 17; v. 286; p. 588.
Micrometer, Inside. C. W. Scott. No. 57,932; May 17; v. 286; p. 587.
Mirrors, brushes, or similar articles, Back for hand-. A. G. Kintz. No. 57,778; May 3; v. 286; p. 154.
Mixing and stirring device. M. Black. No. 57,883; May 17; v. 286; p. 579.
Motorcycle-frame. G. Jonssart. No. 57,976; May 24; v. 286; p. 800.
Mud-guard. E. L. Tomlinson. No. 57,799; May 3; v. 286; p. 158.
Pail. J. H. Wilson. No. 58,053; May 31; v. 286; p. 1018.
Pastry-tool. J. C. Brown. No. 57,815; May 10; v. 286; p. 369.
Peeling disk, Vegetable-. C. F. Smith. No. 58,046; May 31; v. 286; p. 1016.
Pen, pencil, penknife, or similar article, Surface ornamentation for a. E. Todd, Jr. Nos. 58,000–1; May 24; v. 286; p. 804.
Pendant for lighting means. F. M. Poritz. No. 57,789; May 3; v. 286; p. 156.
Pendant, Self-illuminating. T. C. Smith. No. 58,047; May 31; v. 286; p. 1017.
Percolator, urn, or similar article. R. J. Bourgeois and G. P. Ittig. No. 57,814; May 10; v. 286; p. 369.
Phonograph-cabinet. P. A. Bergman. No. 57,882; May 17; v. 286; p. 579.
Phonograph-cabinet. C. E. Ferreira. No. 57,895; May 17; v. 286; p. 581.
Phonograph-cabinet. E. C. Howard. Nos. 57,903–8; May 17; v. 286; pp. 582–3.
Phonograph-cabinet. H. Orsenigo. No. 57,857; May 10; v. 286; p. 377.
Phonograph-cabinet. A. W. J. Schuler. No. 57,931; May 17; v. 286; p. 587.
Phonograph-cabinet. J. J. Warner. No. 57,959; May 17; v. 286; p. 591.
Phonograph-case. J. A. Fern. Nos. 57,828–9; May 10; v. 286; p. 372.
Plate, Dinner-. E. J. Meissner. No. 58,039; May 31; v. 286; p. 1015.
Plate or similar article. S. I. Morley. No. 58,040; May 31; v. 286; p. 1015.
Plate, Refreshment-. M. McInerney. No. 58,038; May 31; v. 286; p. 1015.
Plug cap, Attachment-. C. J. Klein. No. 57,841; May 10; v. 286; p. 374.
Polycycle. S. Sala and K. Dabrowski. No. 57,993; May 24; v. 286; p. 803.
Potato masher and ricer. H. P. Roberts. No. 57,862; May 10; v. 286; p. 378.
Powder box, Talcum-. F. Eberhart. No. 57,893; May 17; v. 286; p. 581.

Powder-can or similar receptacle, Sifter-top for a. C. S. Humphrey. No. 58,026; May 31; v. 286; p. 1013.
Radiator. R. Stahl. No. 57,998; May 24; v. 286; p. 804.
Radiator-cap. E. W. Austin. No. 57,761; May 3; v. 286; p. 151.
Radiator-cap. I. L. Wolkow. No. 57,805; May 3; v. 286; p. 158.
Radiator, Motor-vehicle. V. W. Page. No. 57,784; May 3; v. 286; p. 155.
Radiator-repairing-machine frame, Automobile-. E. B. Thompson. No. 57,794; May 3; v. 286; p. 157.
Radiator-section. L. Courtot. No. 57,818; May 10; v. 286; p. 370.
Radiometer-case. H. Barnes. No. 57,762; May 3; v. 286; p. 151.
Rail-bond terminal. J. R. Brown. No. 58,016; May 31; v. 286; p. 1011.
Receptacle-plug. P. R. Collier. No. 58,019; May 31; v. 286; p. 1012.
Reflector, Automobile-. E. G. Johanson. No. 57,912; May 17; v. 286; p. 584.
Regulating apparatus, Control-handle for. A. H. Grebe. No. 57,900; May 17; v. 286; p. 582.
Rubber heel. T. Trimboli. No. 57,874; May 10; v. 286; p. 380.
Rule-holder. T. D. Frederick. No. 57,831; May 10; v. 286; p. 372.
Sash-weight, Sectional. W. A. Bartley. Nos. 57,810–11; May 10; v. 286; p. 368.
Scale, Computing. B. W. King. No. 57,840; May 10; v. 286; p. 374.
Scales, Casing for. E. G. Allen and A. A. Hagar. No. 57,960; May 24; v. 286; p. 797.
Shade, Window-. A. U. Luca. No. 57,846; May 10; v. 286; p. 375.
Shaping and ironing tool. F. E. Kern. No. 58,007; May 24; v. 286; p. 805.
Shingle, Roofing-. J. A. Scharwath. Nos. 57,865–6; May 10; v. 286; p. 378.
Shoe ornament. G. H. Pulsifer. No. 57,929; May 17; v. 286; p. 587.
Shower-plate, Two-light. L. R. Wellman. No. 57,802; May 3; v. 286; p. 158.
Sifter-top can or similar receptacle. M. H. Connor. No. 58,020; May 31; v. 286; p. 1012.
Sifter-top can or similar receptacle. O. M. Svendsen. No. 58,048; May 31; v. 286; p. 1017.
Sign, Electric. M. Norden. No. 57,852; May 10; v. 286; p. 376.
Signal. I. V. Edgerton. No. 57,965; May 24; v. 286; p. 798.
Sled. V. T. Broberg. No. 58,015; May 31; v. 286; p. 1011.
Soap, Cake of. A. C. Lang. No. 58,032; May 31; v. 286; p. 1014.
Soda-fountain and ice-cream-dispensing apparatus. W. F. Beatty. No. 58,011; May 31; v. 286; p. 1010.
Spatula. J. H. Lickert. No. 57,780; May 3; v. 286; p. 155.
Springs, Securing-clip for. H. C. Naumann. No. 57,851; May 10; v. 286; p. 376.
Staple. N. P. Plougmann. No. 58,043; May 31; v. 286; p. 1016.
Stirring and turning tool. J. H. Lickert. No. 57,845; May 10; v. 286; p. 375.
Surface ornamentation applied to an article of manufacture. J. O. Baldi. No. 57,806; May 10; v. 286; p. 368.
Talcum-powder can. C. H. Nowack. Nos. 57,853–5; May 10; v. 286; p. 376.
Talking-machine box. C. J. Willenborg, Jr. No. 58,004; May 24; v. 286; p. 805.
Talking-machine cabinet. S. K. Ouzoun-Boghossian. No. 57,990; May 24; v. 286; p. 802.
Talking-machine grille. S. K. Ouzoun-Boghossian. No. 57,783; May 3; v. 286; p. 155.
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Tire-carrier. J. Galamb. No. 57,897; May 17; v. 286; p. 581.
Tire-carrier. H. G. Voight. No. 57,801; May 3; v. 286; p. 158.
Tire-casing. G. W. Odell. No. 57,926; May 17; v. 286; p. 586.
Tire-core. W. A. Black. No. 57,813; May 10; v. 286; p. 369.
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Tire or similar article. F. H. Smith. No. 57,937; May 17; v. 286; p. 588.
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Tire-tread. A. L. Breitenstein. Nos. 57,886–7; May 17; v. 286; pp. 579–80.
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Vehicles, Seat-body for children's. H. G. Norwood. No. 58,041; May 31; v. 286; p. 1016.
Velocipede-frame. L. J. Baribault. Nos. 57,807–8; May 10; v. 286; p. 368.
Waffle-iron. W. V. Bozzelle and J. W. Hummel. No. 57,961; May 24; v. 286; p. 798.
Wall-bracket or candelabrum for electric and other illumination. J. W. Davidson. No. 57,964; May 24; v. 286; p. 798.
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Washing-machines, Gear-casing for. H. O. Bartlett. No. 57,809; May 10; v. 286; p. 368.
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Wind-deflector. A. Williams. No. 57,804; May 3; v. 286; p. 158.
Windshield-blinds, Bracket for. H. A. Kaitting. No. 57,977; May 24; v. 286; p. 800.
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Abrasive wheels, Unmounted. E. C. Atkins & Company. No. 142,435; May 17; v. 286; p. 624.
Abrasives coated on cloth or paper, or both. Manning Abrasive Co. No. 142,605; May 17; v. 286; p. 629.
Accessories for motor cars and cycles. Herbert Terry & Sons. No. 142,152; May 3; v. 286; p. 191.
Acoustic appliances. Mazer Acoustile Company. No. 142,019; May 3; v. 286; p. 187.
Adhesives, compounds, &c. National Rubber & Specialties Co. No. 142,064; May 3; v. 286; p. 188.
Advertising literature. Tolman Print Inc. No. 142,902; May 17; v. 286; p. 642.
Agricultural implements. B. F. Avery & Sons. No. 141,852; May 3; v. 286; p. 182.
Agricultural implements. Samson Tractor Company. No. 142,743; May 17; v. 286; p. 633.
Agricultural machinery and parts thereof. International Harvester Company. No. 142,582; May 17; v. 286; p. 628.
Air-feeding devices for stoves, &c. J. Y. King. No. 142,374; May 10; v. 286; p. 409.
Alcohol, Diacetone. Alcohol Products Company. No. 141,828; May 3; v. 286; p. 181.
Alcohol, Ethyl. American Distilling Co. No. 141,835; May 3; v. 286; p. 181.
Alloy containing nickel and copper, Metal. International Nickel Co. No. 142,583; May 17; v. 286; p. 628.
Alloys, Metal. American Boron Products Company. Nos. 142,852–3; May 17; v. 286; p. 637.
Alterative. C. H. Brooks. No. 142,949; May 24; v. 286; p. 844.
Almonds. California Almond Growers Exchange. No. 141,883; May 3; v. 286; p. 183.
Amusement devices. L. Raymond. No. 142,099; May 3; v. 286; p. 189.
Antiseptic, &c., in the treatment of disordered conditions of the uterus and vagina. William S. Merrell Company. No. 142,026; May 3; v. 286; p. 187.
Antiseptic, disinfectant, &c. American Laboratories. No. 141,836; May 3; v. 286; p. 181.
Aprons, house-dresses, rompers, &c., Bungalow-. J. S. Oppenheimer. Nos. 142,313–14; May 10; v. 286; p. 405.
Apparatus for maintaining constant current on Coolidge tubes. Roentgen Appliance Company. No. 142,389; May 10; v. 286; p. 410.
Artificial alkalized hydrated ferric oxid. Alpha-Lux Company. No. 143,273; May 31; v. 286; p. 1047.
Asphalt, artificial asphalt, roof-felting, &c. Aktiengesellschaft Johannes Jeserich. No. 141,827; May 3; v. 286; p. 181.
Automobile-bodies, carriages, &c. Clayton Company. No. 143,305; May 31; v. 286; p. 1048.
Automobile-body polish. Sta-Brite Manufacturing Company. No. 142,145; May 3; v. 286; p. 191.
Automobile-lock. R. E. Adreon. No. 142,406; May 17; v. 286; p. 623.
Automobile oil-gages. Wallace Motor Products Corporation. No. 142,166; May 3; v. 286; p. 192.
Automobile-polish. C. Kranzler. No. 142,286; May 10; v. 286; p. 404.
Automobile seats and chairs. Fort Pitt Bedding Company. No. 142,539; May 17; v. 286; p. 627.
Automobile-tire-repair outfits. Magic Auto Supply Company. No. 142,601; May 17; v. 286; p. 629.
Automobiles. Davis Car Company. No. 142,253; May 10; v. 286; p. 403.
Automobiles. A. J. Jackson. No. 143,373; May 31; v. 286; p. 1050.
Automobiles. La Fayette Motors Company. No. 142,375; May 10; v. 286; p. 409.
Automobiles. Malbohm Motors Company. No. 142,298; May 10; v. 286; p. 405.
Automobiles. S. C. Pandolfo. No. 143,420; May 31; v. 286; p. 1051.
Automobiles. J. R. Sutterly, Jr. No. 142,787; May 17; v. 286; p. 634.
Automobiles and automobile-trucks. Belmont Motors Corporation. No. 142,357; May 10; v. 286; p. 407.
Automobiles and motor-trucks. Goodyear Tire & Rubber Co. No. 143,353; May 31; v. 286; p. 1049.
Automobiles, Auxiliary power-transmitting shafts for. C. H. Foltmer. No. 141,938; May 3; v. 286; p. 184.
Automobiles, furniture, and varnished surfaces, Polish and preservative for. Acron Polish Company. No. 142,403; May 17; v. 286; p. 623.
Automobiles, Motor-trucks, motor lorries and cars. Samson Tractor Company. No. 143,458; May 31; v. 286; p. 1052.
Automobiles or any varnished surface, Cleanser and polish for. Queen City-Specialty Co. No. 142,320; May 10; v. 286; p. 405.
Bacon, sausages, and pickled pigs' feet in jars. Jacob E. Decker & Sons. No. 141,920; May 3; v. 286; p. 184.
Bacon squares, Jowl-. Jacob E. Decker & Sons. No. 141,919; May 3; v. 286; p. 184.
Bacteria, Inoculating-. Eggert Chemical Company. No. 142,260; May 10; v. 286; p. 404.
Baggage-racks. Adams & Westlake Company. No. 142,405; May 17; v. 286; p. 623.
Bagging, Jute. American Manufacturing Company. No. 143,234; May 24; v. 286; p. 855.
Bags and portfolio-like envelops, Traveling-. United States Rubber Company. No. 142,808; May 17; v. 286; p. 635.
Bags for carrying coal, Canvas. Jenckes Spinning Company. No. 142,588; May 17; v. 286; p. 628.
Bags, Laundry-. Jenckes Spinning Company. No. 141,982; May 3; v. 286; p. 186.
Balls, Golf-. The Fair. No. 142,517; May 17; v. 286; p. 626.
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Barrettes, Hair-locking attachments for. R. W. Thayer. No. 142,901; May 17; v. 286; p. 642.
Baskets. Wabash Basket Co. No. 142,345; May 10; v. 286; p. 406.
Bath powder or salt. Royal Pharmaceutical & Perfumery Co. No. 142,116; May 3; v. 286; p. 190.
Bath-robes and bathing-suits. Pelton & Pelton. No. 142,085; May 3; v. 286; p. 189.
Bathroom fixtures and accessories. G. C. Squier. No. 143,480; May 31; v. 286; p. 1053.
Bathtubs, lavatories, sinks, Enameled and metallic. Richmond Radiator Company. No. 142,729; May 17; v. 286; p. 632.
Batteries and connectors therefor, Secondary. Westinghouse Union Battery Co. No. 142,348; May 10; v. 286; p. 406.
Batteries, Dry. Carbon Products Co. No. 142,247; May 10; v. 286; p. 403.
Batteries, Electric. Federal Storage Battery Co. No. 143,242; May 24; v. 286; p. 856.
Batting, Wool-. Sears, Roebuck and Co. No. 143,463; May 31; v. 286; p. 1053.
Beads and bead necklaces. M. C. Smith. No. 142,225; May 3; v. 286; p. 192.
Beer, Lager-. Adam Scheidt Brewing Company. No. 142,749; May 17; v. 286; p. 633.
Beers, near beers, porter, &c. Bartels Brewing Company. Nos. 141,860–3; May 3; v. 286; p. 182.
Belting and hose made of fabric and rubber and machinery packing. B. F. Goodrich Company. No. 143,352; May 31; v. 286; p. 1049.
Belting and machinery packing. Klatscher & Lorenz, Inc. No. 141,996; May 3; v. 286; p. 186.
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Belting, Flat leather. J. E. Rhoads & Sons. No. 142,727; May 17; v. 286; p. 632.
Belting, Leather. Chicago Belting Company. Nos. 141,891–4; May 3; v. 286; p. 183.
Belting, Leather. Grant Leather Corporation. No. 143,356; May 31; v. 286; p. 1049.
Belting, Leather. Page Belting Company. Nos. 142,687–90; May 17; v. 286; p. 631.
Belting, Leather. Page Belting Company. No. 142,692; May 17; v. 286; p. 631.
Belting, Leather. Page Belting Company. No. 142,694; May 17; v. 286; p. 631.
Belting, Machinery. Maine Belting Company. No. 142,602; May 17; v. 286; p. 629.
Belting, Skirt. Penn Rivet Corporation. No. 143,425; May 31; v. 286; p. 1051.
Beltings, brake-linings, antisqueak-webs, &c. Russell Manufacturing Company. No. 143,454; May 31; v. 286; p. 1052.
Belts for personal wear, Leather. Leatherwear Company of America. No. 143,252; May 24; v. 286; p. 857.
Belts, Trousers-supporting. Faust Mfg. Company. No. 142,263; May 10; v. 286; p. 404.
Benzol, toluol, &c. Peoples Gas By-Products Corporation. No. 142,087; May 3; v. 286; p. 189.
Beverage. Klewel Brewing Company. No. 141,993; May 3; v. 286; p. 186.
Beverage and syrup therefor, Non-alcoholic, maltless. W. H. Ridgaway. No. 143,442; May 31; v. 286; p. 1052.
Beverage, Cereal non-intoxicating malt. Rieger & Gretz Brewing Company. No. 142,110; May 3; v. 286; p. 190.
Beverage, Maltless. Lash's Products Co. No. 142,005; May 3; v. 286; p. 186.
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Beverages, Non-alcoholic non-intoxicating. J. G. F. Hieber. No. 141,963; May 3; v. 286; p. 185.
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Beverages and syrups therefor. Bee Bee Confection Company. No. 143,225; May 31; v. 286; p. 1047.
Beverages and syrups therefor, Non-alcholic, non-cereal, maltless. A. F. Kloss Co. No. 143,379; May 31; v. 286; p. 1050.
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Bismuth compound used in diarrhea or various intestinal disorders. William S. Merrell Company. No. 142,029; May 3; v. 286; p. 187.
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Carbon-paper and typewriter-ribbons. Nelson-Eismann-Quist Co. No. 142,637; May 17; v. 286; p. 630.
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Chemicals, medicines, and pharmaceutical preparations. Chas. Pfizer & Co. No. 142,090; May 3; v. 286; p. 189.
Chemical, medicinal, and pharmaceutical preparations. United Drug Company. No. 143,498; May 31; v. 286; p. 1054.
Chemical preparations. P. W. Shimer. No. 143,167; May 24; v. 286; p. 851.
Chemical preparation for softening hard water. Kirkman & Son. No. 143,062; May 24; v. 286; p. 847.
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Chocolate-cocoanut bars. C. E. Whowell. No. 142,838; May 17; v. 286; p. 636.
Chocolates with centers, Rough. L. J. Christopher Co. No. 142,959; May 24; v. 286; p. 844.
Chucks and collets. McCrosky Tool Corporation. No. 142,597; May 17; v. 286; p. 620.
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Cigarette-paper and cigarette-makers. Waldes & Co. No. 142,820; May 17; v. 286; p. 635.
Cigarette paper, makers, and tubes. Waldes & Co. Nos. 142,818–19; May 17; v. 286; p. 635.
Cigarette-papers, portable makers, and tubes. Waldes & Co. No. 142,821; May 17; v. 286; p. 635.
Cigarettes. American Tobacco Company. No. 142,423; May 17; v. 286; p. 623.
Cigarettes. Ardath Tobacco Company. No. 142,433; May 17; v. 286; p. 624.
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Cigarettes. J. M. Phillips. No. 143,456; May 31; v. 286; p. 1052.
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Clay compound. A. W. Lowrie. No. 142,011; May 3; v. 286; p. 187.
Cleaner for cars, &c., Prepared. Saunderite Manufacturing Company. No. 142,747; May 17; v. 286; p. 633.
Cleaning compound. T. A. Theard. No. 142,792; May 17; v. 286; p. 634.
Cleaning fluid. M. Bateson. No. 142,236; May 10; v. 286; p. 403.
Cleaning fluid for painted and varnished automobiles, pianos, and furniture-surfaces. C. E. Murphy. No. 143,409; May 31; v. 286; p. 1051.
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Cleaning, scouring, and polishing wads, pads, rolls, and cloths. Brillo Manufacturing Company. No. 142,947; May 24; v. 286; p. 844.
Cleanser for automobiles, furniture, &c. Nature Polish Company. No. 142,067; May 3; v. 286; p. 188.
Cleanser for fabrics. Charles McAdam Company. No. 142,594; May 17; v. 286; p. 628.
Cleansing and polishing base, Non-abrasive, absorbent. L. V. Slaight. No. 143,069; May 24; v. 286; p. 848.
Cloaks, suits, and evening-wraps for women. Blogg & Littauer. No. 142,859; May 17; v. 286; p. 638.
Clocks and watches. Marshall-Wells Company. No. 142,612; May 17; v. 286; p. 629.
Clothing. American Wholesale Corporation (Baltimore Bargain House). No. 142,186; May 3; v. 286; p. 192.
Clothing. Globe Shirt & Overall Company. No. 143,021; May 24; v. 286; p. 846.
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Clothing, Articles of. Case-Fischer Manufacturing Company. No. 142,248; May 10; v. 286; p. 403.
Clothing, Articles of. Chain Shirt Shops. No. 142,487; May 17; v. 286; p. 625.
Clothing, Articles of. Ely & Walker Dry Goods Company. No. 143,329; May 31; v. 286; p. 1048.
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Clothing, Men's and boys'. J. B. Fractman. No. 141,939; May 3; v. 286; p. 184.
Clothing, Men's and boy's outing. Cal Hirsch & Sons Mercantile Co. No. 142,567; May 17; v. 286; p. 628.
Coal. St. Louis Coal Co. No. 142,337; May 10; v. 286; p. 406.
Coal and coke. Douglass Barnes Corporation. No. 142,445; May 17; v. 286; p. 624.
Coal and coke. Douglass Barnes Corporation. No. 143,317; May 31; v. 286; p. 1048.
Coasters. American Novelty Co. No. 141,839; May 3; v. 286; p. 181.
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Cocoa and chocolate. Peter Cailler Kohler Swiss Chocolate Co. No. 143,260; May 24; v. 286; p. 858.
Cocoa powder, Prepared. The Cocoa Products Co. No. 141,900; May 3; v. 286; p. 183.
Coffee. G. G. Cornwell & Son. No. 142,482; May 17; v. 286; p. 625.
Coffee. Faria. Costa & Co. No. 142,518; May 17; v. 286; p. 626.
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Coffee. G. Spongberg. No. 143,265; May 24; v. 286; p. 858.
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Coffee, tea, spices, flavoring extracts. G. Sponberg. No. 143,266; May 24; v. 286; p. 858.
Coin-paying machines. Brandt Manufacturing Company. No. 141,877; May 3; v. 286; p. 778.
Colors and paints. Inter-State Oil Company. No. 142,280; May 10; v. 286; p. 404.
Combination one-piece working-garment. Cohn, Goldwater Co. No. 142,270; May 10; v. 286; p. 404.
Combs, pin-cushions, and shoe-horns. Tuskeloid Company. No. 143,494; May 31; v. 286; p. 1054.
Compound for treating diseases of the blood, liver, and lungs. C. C. Seawright. No. 143,464; May 31; v. 286; p. 1053.
Compound for use in treating coughs, colds, &c. R. G. Dunwody. No. 142,990; May 24; v. 286; p. 845.
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Compound of phytolacca used in the treatment of sore throat, tonsilitis, &c. William S. Merrell Company. No. 143,084; May 24; v. 286; p. 848.
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Construction materials for floors, walls, and ceilings. Traitel Marble Co. No. 143,493; May 31; v. 286; p. 1053.
Containers for disinfecting substances. C. F. Hood. No. 142,571; May 17; v. 286; p. 628.
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Coolers, filters, and filtering material. The Filtrine Manufacturing Company. No. 142,528; May 17; v. 286; p. 627.
Cordial extract used in nervousness, &c. William S. Merrell Company. No. 142,034; May 3; v. 286; p. 187.
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Corsets. Sears, Roebuck and Co. No. 142,329; May 10; v. 286; p. 406.
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Drink and syrup for making same, Fruit. R. D. Hamilton. No. 142,874; May 17; v. 286; p. 639.
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Dyes and dyestuffs. Marden, Orth & Hastings Corporation. No. 143,076; May 24; v. 286; p. 848.
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Dyestuffs. E. I. du Pont de Nemours & Company. No. 142,368; May 10; v. 286; p. 408.
Dyestuffs and chemicals used in dyeing and bleaching. Central Dyestuffs & Chemical Co. No. 141,889; May 3; v. 286; p. 183.
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Egg substitute. J. V. Malnight. No. 143,394; May 31; v. 286; p. 1050.
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Electric control-cabinets, switch-boxes, &c. B. L. Haltenhof. No. 142,557; May 17; v. 286; p. 627.
Electric generators and motors. Howell Electric Motors Company. No. 143,050; May 24; v. 286; p. 847.
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Electric lamps, fixtures, and parts. F. W. Wakefield Brass Company. No. 142,817; May 17; v. 286; p. 635.
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Electric lighting plant, Unitary. Joerns-Mohr Corporation. No. 142,590; May 17; v. 286; p. 628.
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Electrotypes, stereotypes, and matrices. Partridge and Anderson Company. No. 142,081; May 3; v. 286; p. 189.
Embroideries for military and civilian purposes. General Embroidery & Military Supply Co. No. 143,349; May 31; v. 286; p. 1049.
Embroidery, Felt initial-fillers for. Diamond Felt Initial Co. No. 141,921; May 3; v. 286; p. 184.
Enamel, Paint. W. A. Briggs. No. 142,946; May 24; v. 286; p. 844.
Enamels and varnishes. Continental Varnish Company. No. 142,480; May 17; v. 286; p. 625.
Engines and reversing-gear mechanism, Crossheads and crosshead-shoes for fluid-operated. Barco Manufacturing Company. No. 142,444; May 17; v. 286; p. 624.
Engines, Device designed to supply moist air into the intake-manifold of gasolene-. McComas & Goodwin. No. 142,590; May 17; v. 286; p. 629.
Engines, Gasolene-. Sears, Roebuck and Co. No. 142,754; May 17; v. 286; p. 633.
Engraved, embossed greeting-cards, pamphlets, wedding invitations, &c. Nu-Way Printing & Engraving Shop. No. 142,074; May 3; v. 286; p. 189.
Envelops, Collection-. T. D. Oakley. No. 142,679; May 17; v. 286; p. 631.
Essences for the production of perfumes. Ungerer & Co. No. 142,158; May 3; v. 286; p. 191.
Extract, Vanilla. Semrad Chemical Co. No. 142,757; May 17; v. 286; p. 633.
Extracts and flavors, Fruit and vegetable. Okay Extract Company. No. 143,122; May 24; v. 286; p. 849.
Eyeglasses and spectacles and parts thereof. American Optical Company. No. 141,840; May 3; v. 286; p. 179.
Fabrics and piece goods of wool, cotton, linen, and silk, Textile. F. A. Patrick & Co. No. 142,221; May 3; v. 286; p. 192.
Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. No. 142,742; May 17; v. 286; p. 633.
Fancy articles and sachets, Outfit for making. Porter Chemical Company. No. 142,096; May 3; v. 286; p. 189.
Fancy goods and notions. Waldes & Co. No. 142,165; May 3; v. 286; p. 191.
Fastenings. J. P. Eustis Manufacturing Company. No. 142,867; May 17; v. 286; p. 638.
Fasts, locks, and parts thereof, fasteners, &c. Yale & Towne Mfg. Co. No. 142,850; May 17; v. 286; p. 636.
Feed. J. M. Wilson. No. 142,844; May 17; v. 286; p. 636.
Feed for horses, mules, &c. J. M. Wilson. Nos. 142,351–2; May 10; v. 286; p. 406.
Feed-hoppers. M. R. Jacobus. No. 142,880; May 17; v. 286; p. 639.
Feed, Mixed. West Side Hay & Grain Co. No. 142,833; May 17; v. 286; p. 636.
Feed, Stock. Barrett, Denton & Lynn Co. No. 141,859; May 3; v. 286; p. 182.
Feed, Stock. MacX Feed Milling Co. No. 142,524; May 17; v. 286; p. 626.
Feed, Stock. Miller-McConnel Grain Co. No. 143,400; May 31; v. 286; p. 1051.
Felts and piece goods of wool or part wool. Edward H. Best & Co. No. 141,869; May 3; v. 286; p. 182.
Felts and wool, &c., piece goods, Woven. Edward H. Best & Co. No. 143,286; May 31; v. 286; p. 1047.
Fertilizer. A. J. Averell. No. 142,437; May 17; v. 286; p. 624.
Fertilizer. Chas. H. Lilly Co. No. 142,010; May 3; v. 286; p. 187.
Fertilizers. Coe Mortimer Co. No. 143,098; May 24; v. 286; p. 849.
Fertilizers. J. R. Guthrie. No. 142,547; May 17; v. 286; p. 627.
Fertilizers. V. H. Lanier. No. 142,288; May 10; v. 286; p. 404.
Fertilizers. J. G. Lipman. No. 142,013; May 3; v. 286; p. 187.
Fertilizers. South Metropolitan Gas Company. No. 142,142; May 3; v. 286; p. 191.
Fiber-boards sold in sheets. Agasote Millboard Co. No. 143,272; May 31; v. 286; p. 1047.
Files and rasps, holders and handles therefor. Nicholson File Company. No. 142,640; May 17; v. 286; p. 630.
Files, cuticle-knives, &c., Nail-. Fiberloid Corporation. No. 143,334; May 31; v. 286; p. 1049.
Filing-cases, lockers, and shelving, Metal. Berger Manufacturing Company. No. 142,450; May 17; v. 286; p. 624.
Filtering apparatus and filter-cylinders. Berkefeld Filter Company. No. 142,451; May 17; v. 286; p. 624.
Filters, coolers, refrigerating apparatus, &c., House-. Societe Des Moteurs Gnome et Rhone. No. 142,772; May 17; v. 286; p. 634.
Filters, Liquid-. The Refinite Company. No. 142,723; May 17; v. 286; p. 632.
Fire-bricks and paving-blocks. Geo. S. Good Fire Brick Co. No. 142,870; May 17; v. 286; p. 639.
Fire-bricks and tile for metallurgical furnaces. Crescent Refractories Company. Nos. 142,362–5; May 10; v. 286; pp. 407–8.
Fire-extinguishers. Safety Fire Extinguisher Co. No. 142,896; May 17; v. 286; p. 641.
Fire-extinguishers, Hand. Allen Corporation. No. 142,851; May 17; v. 286; p. 637.
Fire-extinguishing material. Wapakoneta Manufacturing Company. No. 143,215; May 24; v. 286; p. 852.
Firearms, ammunition, and pyrotechnic supplies. Winchester Repeating Arms Company. No. 142,353; May 10; v. 286; p. 406.
Fireless stoves. Durham Manufacturing Company. No. 142,511; May 17; v. 286; p. 626.
Fish and shrimp, Cured, salt, and canned. J. S. Twombly. No. 142,801; May 17; v. 286; p. 635.
Flannels, Cotton. Carson, Pirie, Scott & Co. No. 143,299; May 31; v. 286; p. 1047.
Flavoring extracts, pie fillings, spices, egg-whip. Haug & Co. No. 143,247; May 24; v. 286; p. 856.
Flies or bugs for fly-fishing, Artificial. C. J. McCarthy. No. 142,595; May 17; v. 286; p. 629.
Floor-coverings and rug-borders, Felt-base. Bird & Son. No. 143,288; May 31; v. 286; p. 1047.
Flour and cornmeal, Wheat-. Bay City Milling Company. No. 143,284; May 31; v. 286; p. 1047.
Flour and cornmeal, Wheat-. Earle-McGavock Milling Company. No. 143,324; May 31; v. 286; p. 1048.
Flour, Cake. Hoosier Milling Co. No. 143,047; May 24; v. 286; p. 847.
Flour, Cake-. Levering Coffee Company. No. 143,388; May 31; v. 286; p. 1050.
Flour, Corn-. Warner Moore & Co. No. 143,403; May 31, v. 238; p. 1051.
Flour, Self-rising. Midland Flour Milling Company. Nos. 142,303–5; May 10; v. 286; p. 405.
Flour, Self-rising wheat-. Charleston Milling Company. No. 142,488; May 17; v. 286; p. 625.
Flour, Self-rising wheat-. Nashville Roller Mills. No. 142,061; May 3; v. 286; p. 188.
Flour, Self-rising wheat-. Southern Illinois Milling & Elevator Co. No. 143,477; May 31; v. 286; p. 1053.
Flour, Wheat-. Amendt Milling Company. No. 142,915; May 24; v. 286; p. 843.
Flour, Wheat-. American Hominy Company. No. 142,916; May 24; v. 286; p. 843.
Flour, Wheat-. H. J. Arnold. No. 141,846; May 3; v. 286; p. 181.
Flour, Wheat-. Bech Van Sicien & Co. No. 143,169; May 24; v. 286; p. 851.
Flour, Wheat-. Bennett Milling Co. No. 142,238; May 10; v. 286; p. 403.
Flour, Wheat-. Cisneros & Co. No. 142,249; May 10; v. 286; p. 403.
Flour, Wheat-. Cisneros & Co. Inc. Nos. 142,961–4; May 24; v. 286; p. 844.
Flour, Wheat-. Earle-McGavock Milling Company. No. 142,599; May 17; v. 286; p. 629.
Flour, Wheat-. Earle-McGavock Milling Company. No. 142,993; May 24; v. 286; p. 845.
Flour, Wheat-. C. Fleker & Co. No. 142,526; May 17; v. 286; p. 626.
Flour, Wheat-. Ford Flour Company. No. 143,005; May 24; v. 286; p. 846.
Flour, Wheat-. George Urban Milling Company. No. 143,501; May 31; v. 286; p. 1054.
Flour, Wheat-. Gladney Milling Company. Nos. 143,017–20; May 24; v. 286; p. 846.
Flour, Wheat-. Holland O'Neal Milling Co. No. 143,045; May 24; v. 286; p. 847.
Flour, Wheat-. Ismert-Hincke Milling Company. No. 142,585; May 17; v. 286; p. 628.
Flour, Wheat-. Larabee Flour Mills Corporation. No. 142,003; May 3; v. 286; p. 186.
Flour, Wheat-. Larabee Flour Mills Corporation. No. 142,215; May 3; v. 286; p. 192.
Flour, Wheat-. Lindsborg Milling & Elevator Co. No. 142,882; May 17; v. 286; p. 640.
Flour, Wheat-. W. H. Manu. No. 143,395; May 31; v. 286; p. 1050.
Flour, Wheat-. Middle States Milling Company. No. 142,302; May 10; v. 286; p. 405.
Flour, Wheat-. Middle States Milling Company. No. 143,399; May 31; v. 286; p. 1051.
Flour, Wheat-. Miesenhelder Bros. No. 142,041; May 3; v. 286; p. 188.
Flour, Wheat-. Moreland-Jones Company. No. 142,624; May 17; v. 286; p. 629.
Flour, Wheat-. Pillsbury Flour Mills Company. No. 143,430; May 31; v. 286; p. 1052.
Flour, Wheat-. R. C. Poage Milling Co. No. 142,094; May 3; v. 286; p. 189.
Flour, Wheat-. Red Star Milling Company. No. 142,101; May 3; v. 286; p. 189.
Flour, Wheat-. Red Star Milling Company. No. 142,322; May 10; v. 286; p. 405.
Flour, Wheat-. Round Hill Milling Company. No. 142,736; May 17; v. 286; p. 633.
Flour, Wheat-. Standard Tilton Milling Co. No. 142,776; May 17; v. 286; p. 634.
Flour, Wheat-. Theopold-Rein Co. No. 143,195; May 24; v. 286; p. 852.
Flour, Wheat-. Trenton Milling Company. No. 143,200; May 24; v. 286; p. 852.
Flour, Wheat-. Wenatchee Milling Co. No. 142,904; May 17; v. 286; p. 642.
Flour, Wheat-. Willis Norton & Co. No. 142,310; May 10; v. 286; p. 405.
Flours, cornmeal, and chicken feed. Ismert-Hincke Milling Company. No. 141,981; May 3; v. 286; p. 186.
Fly-books and snelled-fish-hook books. L. D. Chapman. No. 142,675; May 17; v. 286; p. 631.

Fly papers, traps, and catchers of all kinds. National Fly Catcher Company. No. 142,633; May 17; v. 286; p. 630.
Food, Breakfast. Fruited Cereal Company. No. 141,941; May 3; v. 286; p. 184.
Food, Breakfast. Marshall Canning Co. No. 142,216; May 3; v. 286; p. 192.
Food-colors. National Aniline & Chemical Company. No. 143,107; May 24; v. 286; p. 849.
Food for poultry. Nell Brothers Grain Co. No. 143,112; May 24; v. 286; p. 849.
Foods. American Factors. No. 142,410; May 17; v. 286; p. 623.
Foods. W. H. Dyer Company. No. 141,930; May 3; v. 286; p. 184.
Foods. Hygrade Provision Company. No. 142,579; May 17; v. 286; p. 628.
Foods. N. Nigro. No. 142,071; May 3; v. 286; p. 189.
Foods. Sanford Truck Growers, Inc. No. 142,119; May 3; v. 286; p. 190.
Foods. Tolerton & Warfield Co. No. 142,339; May 10; v. 286; p. 406.
Forks, Paper. Sanitary Products Corporation of America. No. 142,746; May 17; v. 286; p. 633.
Formaldehyde, &c., Compound of. William S. Merrell Company. No. 142,028; May 3; v. 286; p. 187.
Frocks and costumes, Ladies'. J. Davis & Co. No. 142,493; May 17; v. 286; p. 626.
Fruit-pitting machine. Marshall Manufacturing Company. No. 142,613; May 17; v. 286; p. 629.
Fruit preserves, jellies, jams, &c. L. F. Wakefield. No. 142,164; May 3; v. 286; p. 191.
Fruits, Fresh. Cardwell & Waggoner. No. 141,885; May 3; v. 286; p. 183.
Fruits, Fresh citrus. Leeco Citrus Growers Association. No. 142,667; May 17; v. 286; p. 631.
Fruits, Fresh citrus. Nelson & Company. Nos. 143,113–14; May 24; v. 286; p. 849.
Fruits, Fresh citrus. Nocatee Citrus Growers Association. No. 143,121; May 24; v. 286; p. 849.
Fruits, Fresh citrus. H. W. Peterson & Company. No. 142,705; May 17; v. 286; p. 632.
Fuel-economizers. J. F. Kendall. No. 143,377; May 31; v. 286; p. 1050.
Fuel, Manufactured. E. L. Culver. No. 141,915; May 3; v. 286; p. 184.
Fur, Dyed. A. Kosofsky. No. 143,065; May 24; v. 286; p. 847.
Furs. Philip A. Singer & Bro. No. 142,332; May 10; v. 286; p. 406.
Furnaces, Coal, wood, and gas. Homer Furnace Company. No. 143,249; May 24; v. 286; p. 856.
Furnaces, evaporators, and parts thereof. Chattanooga Plow Company. No. 143,301; May 31; v. 286; p. 1048.
Furnishings, Ladies'. Gotham Merchandise Company. No. 141,947; May 3; v. 286; p. 185.
Furniture. Field-Parker Company. No. 142,527; May 17; v. 286; p. 626.
Furniture. M. L. Nelson Furniture Co. No. 143,115; May 24; v. 286; p. 849.
Furniture, automobile-body, &c., polish. Gem Hammock & Fly Net Company. No. 141,942; May 3; v. 286; p. 184.
Furniture-polish. Globe Grocery Stores. No. 143,350; May 31; v. 286; p. 1049.
Furniture-polish. J. J. Koetzner. No. 142,285; May 10; v. 286; p. 404.
Gage-glasses. W. H. Stuart. No. 142,336; May 10; v. 286; p. 406.
Game. J. B. Abele. No. 142,400; May 17; v. 286; p. 623.
Game apparatus. T. R. Baldwin. No. 142,442; May 17; v. 286; p. 624.
Game-board. A. L. Landis. No. 142,665; May 17; v. 286; p. 631.
Game, Board. S. B. Reeder. No. 142,102; May 3; v. 286; p. 190.
Game-boards and pieces therefor. G. H. Parker. No. 142,700; May 17; v. 286; p. 632.
Game, Guessing. Porter Chemical Company. No. 142,718; May 17; v. 286; p. 632.
Games. W. J. Tonkin. No. 142,842; May 17; v. 286; p. 636.
Games, Board or table. J. L. Devlin. No. 142,501; May 17; v. 286; p. 626.
Games, Card. C. J. Dorsey. No. 142,505; May 17; v. 286; p. 626.
Games, toys, and fancy goods. Simmons Hardware Company. No. 142,131; May 3; v. 286; p. 190.
Garments, Ladies' outer. Peck & Co. No. 142,084; May 3; v. 286; p. 189.
Garments, One-piece work-. Carson, Pirie, Scott & Co. No. 143,238; May 24; v. 286; p. 855.
Garments, Women's, misses', junior, and children's. Harry Kitzinger & Co. No. 142,678; May 17; v. 286; p. 631.
Garters. Crescent Garter Co. No. 143,308; May 31; v. 286; p. 1048.
Garters. C. F. Hausen. No. 143,360; May 31; v. 286; p. 1049.
Gaskets. McCord Manufacturing Company. No. 143,391; May 31; v. 286; p. 1050.
Gaskets, Copper. Universal Gasket & Manufacturing Co. No. 142,162; May 3; v. 286; p. 191.
Gasolene. Puente Oil Company. No. 143,523; May 31; v. 286; p. 1056.
Gasolene, kerosene, lubricating-oil. Producers & Refiners Corporation. No. 142,319; May 10; v. 286; p. 405.
Gasolene, Preparation for improving. A. Danville. No. 142,975; May 24; v. 286; p. 845.
Gear-shifts. United States Auto Gear Shift Co. No. 142,807; May 17; v. 286; p. 635.
Germicide. R. L. Crowe. No. 141,913; May 3; v. 286; p. 184.
Ginger-ale, sarsaparilla, birch-beer, and soda-water. Schoenhofen Company. No. 143,461; May 31; v. 286; p. 1052.
Glass-cutters, screw-drivers, bits, &c. Crescent Company. No. 141,911; May 3; v. 286; p. 183.
Glass globes and reflectors. Holophane Glass Company. Nos. 141,967–8; May 3; v. 286; p. 185.
Glass jars and bottles. Pacific Coast Glass Works. No. 143,418; May 31; v. 286; p. 1051.
Glass, Reinforced. Bankers Protective Appliance Corp. No. 142,928; May 24; v. 286; p. 843.
Glassware. General Electric Company. No. 143,348; May 31; v. 286; p. 1049.
Glassware, Baking-. Bartlett-Collins Glass Co. No. 143,283; May 31; v. 286; p. 1047.
Glassware, Hand-painted. F. T. Westbrook. No. 142,170; May 3; v. 286; p. 192.
Glazing, roofing, and, calking and water-proofing compounds. Quality Brands Company. No. 143,435; May 31; v. 286; p. 1052.
Glossing compound for eyebrows, eyelashes, mustache, and beard. George Borgfeldt & Co. No. 143,358; May 31; v. 286; p. 1049.
Gloves and mittens. Boss Manufacturing Company. Nos. 142,939–44; May 24; v. 286; p. 844.
Gloves and mittens. Milwaukee Glove Company. No. 142,618; May 17; v. 286; p. 629.
Gloves and mittens, Fabric. Boss Manufacturing Company. Nos. 141,875–6; May 3; v. 286; p. 182.
Gloves and mittens, Fabric. Indianapolis Glove Company. No. 143,053; May 24; v. 286; p. 847.
Gloves, Sueded fabric. Nu-Fabric Products Corporation. No. 142,311; May 10; v. 286; p. 405.
Gloves, underwear, and hosiery. Lorraine Hosiery Co. No. 142,014; May 3; v. 286; p. 187.
Glue. United Products Corporation of America. No. 142,160; May 3; v. 286; p. 191.
Glues. United Products Corporation of America. No. 142,161; May 3; v. 286; p. 191.
Golf-balls. Dunlop America Limited. No. 142,989; May 24; v. 286; p. 845.
Grain-bags. Androscoggin Mills. No. 142,431; May 17; v. 286; p. 624.
Grain ration for dairy-cattle, Mixed-. Dodge-Hooker Mills. No. 143,239; May 24; v. 286; p. 855.
Grape-juice. Uva Grape Products Company. No. 142,343; May 10; v. 286; p. 406.
Graphite, Powdered. United States Graphite Company. No. 143,496; May 31; v. 286; p. 1054.
Grinding-wheels and abrasive stones. Norton Company. No. 142,644; May 17; v. 286; p. 630.
Gum and cement, glue, Adhesive. E. E. Galle. No. 142,541; May 17; v. 286; p. 627.
Gum, Candy-coated chewing-. Wm. Wrigley, Jr., Company. No. 143,228; May 24; v. 286; p. 853.
Gum, Chewing-. F. R. Perkins. No. 142,739; May 17; v. 286; p. 633.
Gum-dispensing machines, Chewing-. American Pop Corn Company. No. 141,841; May 3; v. 286; p. 181.
Hair and scalp, Preparation for the treatment of the. E. M. Carroll. No. 141,886; May 3; v. 286; p. 183.
Hair-curlers. E. Roessner. No. 142,324; May 10; v. 286; p. 406.
Hair-dye. N. Harwitz. No. 141,974; May 3; v. 286; p. 185.
Hair-grower. A. E. Wagner. No. 143,207; May 24; v. 286; p. 852.
Hair-growing preparation. Mrs. M. F. Reid. No. 143,146; May 24; v. 286; p. 850.
Hair-nets. S. Glemby, Inc. No. 143,244; May 24; v. 286; p. 856.
Hair-nets. National Hair Goods Co. No. 143,258; May 24; v. 286; p. 857.
Hair-nets. W. F. Norton. No. 143,417; May 31; v. 286; p. 1051.
Hair-nets. E. G. Oehlschlaeger. No. 142,680; May 17; v. 286; p. 631.
Hair-nets. Samstag & Hilder Bros. No. 142,745; May 17; v. 286; p. 633.
Hair-nets. Strauss Bros. & Co. No. 143,267; May 24; v. 286; p. 858.
Hair-restorer. Rymil Chemical Company. No. 143,156; May 24; v. 286; p. 850.
Hair restorer and shampoo. T. E. Silvera. No. 143,469; May 31; v. 286; p. 1053.
Hair-tonic. D. P. Cooper. No. 141,907; May 3; v. 286; p. 183.
Hair-tonic. Madam Esmeralda. No. 142,997; May 24; v. 286; p. 845.
Hair-tonic. L. Fitterman. No. 143,003; May 24; v. 286; p. 846.
Hair-tonic. J. Langer. No. 142,002; May 3; v. 286; p. 186.
Hair-tonic. L. M. Vaeth. No. 143,502; May 31; v. 286; p. 1054.
Hair tonic and restorer. M. Moschenross. No. 143,406; May 31; v. 286; p. 1051.

Hair-tonic, Liquid. Robert Tardone & Son. No. 143,193; May 24; v. 286; p. 852.
Hair-tonic, pomade, and cold-cream. Sen-Rayto Co. No. 143,465; May 31; v. 286; p. 1053.
Hair-tonics. Waukegan Drug Company. No. 143,220; May 24; v. 286; p. 852.
Hair-waving device, Electric permanent-. C. Nessler. No. 142,219; May 3; v. 286; p. 192.
Hairpins. J. A. Migel, Inc. No. 142,042; May 3; v. 286; p. 188.
Hairpins. Penn Rivet Corporation. No. 143,424; May 31; v. 286; p. 1051.
Hardware. Earle Hardware Manufacturing Co. No. 142,992; May 24; v. 286; p. 845.
Harness, riding-saddles, horse-collars, &c. Simmons Hardware Company. No. 142,392; May 10; v. 286; p. 411.
Hats and caps for men. R an W Hat Shop. No. 142,720; May 17; v. 286; p. 632.
Hats and caps for men and boys. John B. Stetson Company. Nos. 143,184–5; May 24; v. 286; p. 851.
Hats and caps for men and boys, Felt. John B. Stetson Company. No. 143,525; May 31; v. 286; p. 1056.
Hats and caps, Men's and boys'. Warren & Campbell. No. 143,527; May 31; v. 286; p. 1056.
Hats, caps, and bonnets, Ladies' and men's. Smart Millinery Shop. No. 143,170; May 24; v. 286; p. 851.
Hats, Ladies', misses', and children's. Savannah Millinery & Supply Co. No. 142,748; May 17; v. 286; p. 633.
Hats, Men's. F. Berg & Co. No. 142,449; May 17; v. 286; p. 624.
Hats, Men's. Parrote, McIntyre & Co. No. 142,701; May 17; v. 286; p. 632.
Hats, Trimmed and untrimmed. D. B. Fisk & Co. No. 142,369; May 10; v. 286; p. 408.
Headlight lenses, Automobile-. The Day-Nite Corporation. No. 141,918; May 3; v. 286; p. 184.
Healing and soothing salve for cuts, burns, &c. W. R. Hollingshead Company. No. 143,046; May 24; v. 286; p. 847.
Healing-cream for piles, sores, &c. E. Hull. No. 141,973; May 3; v. 286; p. 185.
Heating and cooking apparatus and accessories therefor, Non-electrical. Richmond Radiator Company. No. 142,730; May 17; v. 286; p. 632.
Heating-pads, Electric. Wirt Company. No. 142,847; May 17; v. 286; p. 636.
Heel-lining repairers. L. G. & S. S. Co. No. 143,253; May 24; v. 286; p. 857.
Hides and leather. Kullman, Salz & Co. No. 141,999; May 3; v. 286; p. 186.
Hinges, Check-. Shelby Metal Products Co. No. 142,331; May 10; v. 286; p. 406.
Hog-cholera, Serum for prevention of. Denver Hog Serum Company. No. 142,979; May 24; v. 286; p. 845.
Hominy, pancake-flour, breakfast food, &c., Pearl-. Yucon Mill & Grain Co. No. 142,908; May 17; v. 286; p. 643.
Honey. California Honey Producers Cooperative Exchange. No. 142,462; May 17; v. 286; p. 625.
Honey. J. S. Gross. No. 142,551; May 17; v. 286; p. 627.
Hoof-pads. Federal Rubber Company. No. 142,521; May 17; v. 286; p. 626.
Hops. Burger Bros. Company, The. No. 142,951; May 24; v. 286; p. 844.
Hose, belting, gaskets, packings, valves, tires. Hudson Mechanical Rubber Co. Nos. 142,206–9; May 3; v. 286; p. 192.
Hose, Rubber and fabric. United States Rubber Company. No. 142,342; May 10; v. 286; p. 406.
Hosiery. Chipman Knitting Mills. No. 142,958; May 24; v. 286; p. 844.
Hosiery. Daisy Whitehead Knitting Co. No. 142,974; May 24; v. 286; p. 845.
Hosiery. Dalton Hosiery Mills. No. 142,198; May 3; v. 286; p. 192.
Hosiery. Glidden-Hyde Co. No. 142,204; May 3; v. 286; p. 192.
Hosiery. Great American Knitting Mills, Inc. No. 142,549; May 17; v. 286; p. 627.
Hosiery. Higginbotham-Bailey-Logan Company. No. 141,904; May 3; v. 286; p. 185.
Hosiery. John M. Given, Inc. No. 141,944; May 3; v. 286; p. 184.
Hosiery. F. A. Patrick & Co. No. 142,083; May 3; v. 286; p. 189.
Hosiery. A. V. Victorius & Company. No. 142,163; May 3; v. 286; p. 191.
Hosiery and knitted underwear. E. M. Townsend & Co. No. 142,796; May 17; v. 286; p. 635.
Hosiery and underwear. A. Kommel & Son. No. 142,660; May 17; v. 286; p. 630.
Hosiery, Boys' and misses'. Pennsylvania Knitting Mills Company. No. 143,132; May 24; v. 286; p. 850.
Hydrastin solution. William S. Merrell Company. No. 142,024; May 3; v. 286; p. 187.
Hypophosphites, Compound of. William S. Merrell Company. No. 143,086; May 24; v. 286; p. 848.
Ice-cream. Chapin-Sacks Corporation. No. 142,862; May 17; v. 286; p. 638.
Ice-cream. Colonial Ice Cream Co. No. 142,474; May 17; v. 286; p. 625.
Ice-cream and frozen custard. I. K. Friedman. No. 142,536; May 17; v. 286; p. 627.
Incense. E. F. Gomi. No. 143,026; May 24; v. 286; p. 846.
Incinerators. Kerner Incinerator Company. No. 141,990; May 3; v. 286; p. 186.
Indigo dyes and paste and Midland quick indigo. Gaston, Williams & Wigmore, Far Eastern Division. Nos. 143,345–6; May 31; v. 286; p. 1049.
Ingots of red and yellow brass. Ajax Metal Company. No. 143,232; May 24; v. 286; p. 853.
Ink, Drawing and lettering. C. Howard Hunt Pen Company. No. 143,048; May 24; v. 286; p. 847.
Ink for use in stencil-duplicating machines. L. F. Hofer. No. 142,569; May 17; v. 286; p. 628.
Inks, Printing-. Sigmund Ullman Co. No. 142,763; May 17; v. 286; p. 633.
Inks, Reducing compound for lithographic and printing. Florasynth Laboratories. No. 143,336; May 31; v. 286; p. 1049.
Inks, Writing-. W. E. Fites. No. 142,531; May 17; v. 286; p. 627.
Inks, Writing-. General Eclipse Co. No. 143,347; May 31; v. 286; p. 1049.
Ink, Writing-. M. J. Wilson. No. 142,843; May 17; v. 286; p. 636.
Inner liners, tubes, boots, patches, and flaps. The National Sales Company. No. 142,066; May 3; v. 286; p. 188.
Insecticide. Lebro Manufacturing Co. No. 142,006; May 3; v. 286; p. 186.
Insecticide for killing insects on poultry, &c. Wm. Peterman Inc. No. 142,088; May 3; v. 286; p. 189.
Insecticide for the elimination of moths. Device for dispensing an. E. J. Reefer. No. 142,103; May 3; v. 286; p. 190.
Insecticides and germicides. Interstate Chemical Company. No. 141,977; May 3; v. 286; p. 186.
Insoles made of cardboard. M. De France. No. 143,314; May 31; v. 286; p. 1048.
Insoling, Fabricated. Frank W. Whitcher Company. No. 142,224; May 3; v. 286; p. 192.
Insulating-material. Ehret Magnesia Manufacturing Company. No. 143,325; May 31; v. 286; p. 1048.
Iron and metal sheets, Rust-resisting anticorrosive. The Berger Manufacturing Company. No. 141,868; May 3; v. 286; p. 182.
Iron and steel. Federal Tool & Alloy Steel Corporation. Nos. 142,522–3; May 17; v. 286; p. 626.
Iron and steel sheets and plates and tin and terne plates. American Sheet and Tin Plate Company. Nos. 142,854–5; May 17; v. 286; p. 637.
Iron-salicylate compound. William S. Merrell Company. No. 143,088; May 24; v. 286; p. 848.
Ironing-tools for millinery purposes. F. E. Kern. No. 142,654; May 17; v. 286; p. 630.
Jackets, one-piece outer suits, and overalls, Men's. L. H. Baker. No. 142,440; May 17; v. 286; p. 624.
Jewelry. Freeman-Daughaday Co. No. 143,007; May 24; v. 286; p. 846.
Jewelry. Société La Perle Saskia. No. 142,333; May 10; v. 286; p. 406.
Jewelry. Wolfson Company. No. 142,848; May 17; v. 286; p. 636.
Jewelry and silverware. Essayan Jewelry Company. No. 142,261; May 10; v. 286; p. 404.
Jewelry, hollow and flat ware, &c. American Wholesale Corporation (Baltimore Bargain House). No. 142,187; May 3; v. 286; p. 192.
Kid. Oscar Scherer & Bro. No. 143,126; May 24; v. 286; p. 849.
Kilns and ventilating apparatus therefor. The Sidmans. No. 142,127; May 3; v. 286; p. 190.
Knit woolen cloth in the piece and overcoatings. Hugh Wallace Company. No. 143,250; May 24; v. 286; p. 856.
Knitted fabric underwear, Men's and women's. Adams & Kay. No. 142,404; May 17; v. 286; p. 623.
Knitted jackets. Grushlaw & Sichel. No. 143,031; May 24; v. 286; p. 846.
Knitted sleeping garments, Children's. M. E. Smith & Co. No. 142,760; May 17; v. 286; p. 634.
Knitted underwear, Men's and boys'. Rogers Peet Company. No. 143,433; May 31; v. 286; p. 1052.
Knives and bayonets. Remington Arms Company. Nos. 142,106–7; May 3; v. 286; p. 190.
Knives, carving sets, scissors, &c. Société Anonyme des Anciens Etablissements Sabatier Père et Fils. No. 142,138; May 3; v. 286; p. 191.
Knives, Pocket-. Remington Arms Company. Nos. 143,436–8; May 31; v. 286; p. 1052.
Lamp-burners. White Flame Light Co. No. 142,905; May 17; v. 286; p. 642.
Lamp chimneys and reservoirs. Standard Oil Company of New York. No. 143,179; May 24; v. 286; p. 851.
Lamp-shades made of aluminium. Aluminium-Walzwerke A.-G. No. 141,833; May 3; v. 286; p. 181.
Lamps and lanterns, lighting plants and systems, &c. Coleman Lamp Company. No. 142,359; May 10; v. 286; p. 407.
Lamps and standards, &c., Electric. Handle Co. No. 143,359; May 31; v. 286; p. 1049.
Lamps, burners, mantles, &c. J. I. Robin. No. 142,113; May 3; v. 286; p. 190.
Lamps for automobiles, &c., Electric. K. D. Lamp Company. No. 142,650; May 17; v. 286; p. 630.
Lap-robes, Textile. L. Frank. No. 142,267; May 10; v. 286; p. 404.

Lard. Corn Belt Packing Company. No. 142,481; May 17; v. 286; p. 625.
Leather. Mississippi Valley Tanning Co. No. 142,054; May 3; v. 286; p. 188.
Leather and rawhide belt-laces and leather and rawhide for general uses and for making belt-laces. Fieldstad Leather Company. No. 142,265; May 10; v. 286; p. 404.
Leather-dressing. Basle Company. No. 141,864; May 3; v. 286; p. 182.
Leather, Imitation or artificial. Du Pont Fabrikoid Company. No. 142,991; May 24; v. 286; p. 845.
Leather in the piece. Leathasilk Co. No. 143,385; May 31; v. 286; p. 1050.
Leather-preservative. Chemical Research Company of America. Nos. 142,468–9; May 17; v. 286; p. 625.
Leather-preservative. F. A. Howard Laboratories. No. 142,573; May 17; v. 286; p. 628.
Leather, Rawhide lace-. Page Belting Company. No. 142,691; May 17; v. 286; p. 631.
Leather, Rawhide lace-. Page Belting Company. No. 142,693; May 17; v. 286; p. 631.
Leather, Rawhide lace-. Page Belting Company. No. 142,695; May 17; v. 286; p. 631.
Leather substitute. Woodward and Cochey. No. 142,181; May 3; v. 286; p. 192.
Leather substitute. Woodward & Cochey. No. 142,849; May 17; v. 286; p. 636.
Leathers and skins. Ste. Ame. des Anciens Etablissements A. Combes & Fils & Cie. No. 142,334; May 10; v. 286; p. 406.
Lenses, Ophthalmic. Bausch & Lomb Optical Co. No. 142,448; May 17; v. 286; p. 624.
Letter-duplicating machine. N. B. Browne. No. 142,459; May 17; v. 286; p. 625.
Lighting and heating product. Acetylene Service Company. No. 141,823; May 3; v. 286; p. 181.
Lime, Building-. New England Lime Co. No. 142,308; May 10; v. 286; p. 405.
Liniment. J. Rosen. No. 142,114; May 3; v. 286; p. 190.
Liniment. G. C. Wilson. No. 143,225; May 24; v. 286; p. 853.
Liniment for rheumatism. W. Fuld. No. 143,008; May 24; v. 286; p. 846.
Liniment for sprains, &c. E. Baldwin. No. 142,927; May 24; v. 286; p. 843.
Linoleum, oil-cloth, and floor-covering. Certain-Teed Products Corporation. No. 142,954; May 24; v. 286; p. 844.
Locks and latches. C. A. Nash & Son. No. 142,630; May 17; v. 286; p. 630.
Locks, Door, trunk, &c. Societe des Moteurs Gnome et Rhone. No. 142,771; May 17; v. 286; p. 634.
Locks, keys, and parts thereof, &c. S. R. Slaymaker. No. 142,782; May 17; v. 286; p. 634.
Logs and rough lumber. Dudley Lumber Company. No. 142,988; May 24; v. 286; p. 845.
Lotion, Skin-. A. O. Freedman. No. 141,940; May 3; v. 286; p. 184.
Lotion, Skin-. Lang Drug Co. No. 142,001; May 3; v. 286; p. 186.
Lubricants. Associated Oil Company. No. 143,278; May 31; v. 286; p. 1047.
Lubricating oils and greases. Northwestern Oil Company. No. 142,073; May 3; v. 286; p. 189.
Lumber. Douglas Fir Exploitation Co. No. 142,986; May 24; v. 286; p. 845.
Lumber. A. F. Thane & Co. No. 142,154; May 3; v. 286; p. 191.
Luncheon-outfit. Wilder Mfg. Co. No. 142,840; May 17; v. 286; p. 636.
Machinery and parts thereof. American Tool & Machine Co. No. 142,429; May 17; v. 286; p. 624.
Machinery and tools. Pangborn Corporation. No. 143,421; May 31; v. 286; p. 1056.
Machinery and tools. Societe des Morteurs Gnome et Rhone. No. 143,475; May 31; v. 286; p. 1053.
Magazine, Monthly. American Federation of Labor. No. 142,229; May 10; v. 286; p. 403.
Magazine, Monthly. G. F. Earnshaw. No. 142,259; May 10; v. 286; p. 404.
Magazine, Monthly. Kiwanis Club, International. No. 141,995; May 3; v. 286; p. 186.
Magazines and periodicals. G. B. Williams. No. 142,350; May 10; v. 286; p. 406.
Mailing-boxes. Mason Box Company. No. 142,217; May 3; v. 286; p. 192.
Malt-extract products, Crystaline. Wander Company. No. 143,214; May 24; v. 286; p. 852.
Marble blocks. The Alamoro Company. No. 142,913; May 24; v. 286; p. 843.
Marking and stamping machines. Noble & Westbrook Manufacturing Company. No. 142,641; May 17; v. 286; p. 630.
Marmalade. James Robertson & Sons Preserve Manufacturers. No. 143,443; May 31; v. 286; p. 1052.
Marmalade, Orange. Gordon & Dilworth. No. 143,354; May 31; v. 286; p. 1049.
Matches. Aktiebolaget Förenade Svenska Tändsticksfabriker. No. 142,407; May 17; v. 286; p. 623.
Mattresses. Southern Spring Bed Company. No. 142,774; May 17; v. 286; p. 634.
Mattresses and pillows. Fond du Lac Bedding Co. No. 142,868; May 17; v. 286; p. 638.
Measuring and scientific appliances. A. Baumann. No. 142,447; May 17; v. 286; p. 624.
Measuring appliances. Precision Instrument Company. No. 143,268; May 24; v. 286; p. 850.
Meat food product. Armstrong Packing Company. No. 141,848; May 3; v. 286; p. 358.
Medical and surgical appliances. Keystone Surgical Supply Co. No. 143,378; May 31; v. 286; p. 1050.
Medical compound. Puritan Drug Company. No. 143,141; May 24; v. 286; p. 850.
Memorandum and calendar pads, and pad-stands. G. W. Smith. No. 142,768; May 17; v. 286; p. 634.
Medicinal and pharmaceutical preparations. F. H. Hoyt. No. 141,971; May 3; v. 286; p. 185.
Medicinal and toilet preparations. E. A. Buchholz. No. 142,950; May 24; v. 286; p. 844.
Medicinal and toilet preparations. Ilaria Brothers. No. 143,052; May 24; v. 286; p. 847.
Medicinal and toilet preparations. G. F. Spaeth. No. 143,478; May 31; v. 286; p. 1053.
Medicinal compound for appendicitis, &c. Aurora Medicine Company. No. 142,920; May 24; v. 286; p. 843.
Medicinal compound for the treatment of tuberculosis. Cawthorne Tubercular Treatment, Inc. No. 141,887; May 3; v. 286; p. 183.
Metals, forgings, and castings, &c. Tri-State Engineering Co. No. 142,797; May 17; v. 286; p. 635.
Medicinal plaster. Pan-American Pharmaceutical Co. No. 143,128; May 24; v. 286; p. 850.
Medicinal preparation. C. Bardos, Jr. No. 142,235; May 10; v. 286; p. 403.
Medicinal preparation. W. J. Caron. No. 143,298; May 31; v. 286; p. 1047.
Medicinal preparation. Dr. T. J. Haile & Co. No. 141,953; May 3; v. 286; p. 185.
Medicinal preparation. J. L. Herpich. No. 141,962; May 3; v. 286; p. 185.
Medicinal preparation. R. G. James. No. 143,055; May 24; v. 286; p. 847.
Medicinal preparation. J. de Jesús. No. 143,056; May 24; v. 286; p. 847.
Medicinal preparation. Les Etablissements Poulenc frères Société Anonyme. No. 143,386; May 31; v. 286; p. 1050.
Medicinal preparation. National Pharmacy Co. No. 143,411; May 31; v. 286; p. 1051.
Medicinal preparation. E. Russell. No. 143,153; May 24; v. 286; p. 850.
Medicinal preparation. J. Di Salvo. No. 143,457; May 31; v. 286; p. 1052.
Medicinal preparation. T. A. Walsh. Nos. 142,167–8; May 3; v. 286; p. 192.
Medicinal preparation. Zerbst Pharmaceutical Co. No. 143,517; May 31; v. 286; p. 1054.
Medicinal preparation for coughs, &c. H. R. Merck. No. 142,022; May 3; v. 286; p. 187.
Medicinal preparation for coughs, colds, &c. A. L. Sutton. No. 142,150; May 3; v. 286; p. 191.
Medicinal preparation for indigestion, dyspepsia, &c. W. G. Holley. No. 141,965; May 3; v. 286; p. 185.
Medicinal preparation for influenza. D. A. Finch. No. 143,002; May 24; v. 286; p. 846.
Medicinal preparation for intestinal troubles and nerve and reconstruction tablets. F. Herrera. No. 143,041; May 24; v. 286; p. 847.
Medicinal preparation for rheumatism, grippe, &c. Riedel & Co. No. 142,109; May 3; v. 286; p. 190.
Medicinal preparation for treatment of rheumatism and neuritis. W. A. Abbott. No. 142,909; May 24; v. 286; p. 843.
Medicinal preparation for use in the treatment of St. Vitus's dance. J. Tockstein. No. 143,492; May 31; v. 286; p. 1053.
Medicinal preparations. J. W. Douthitt. No. 141,926; May 3; v. 286; p. 184.
Medicinal preparations. S. Drain, M. D. No. 142,126; May 3; v. 286; p. 190.
Medicinal preparations. J. E. Ghrist. No. 143,016; May 24; v. 286; p. 846.
Medicinal preparations. R. T. Jones. No. 141,985; May 3; v. 286; p. 186.
Medicinal preparations. O. B. H. Khan. No. 141,992; May 3; v. 286; p. 186.
Medicinal preparations. F. S. Mardon. No. 143,077; May 24; v. 286; p. 848.
Medicinal preparations. Society of Chemical Industry in Basle. No. 142,139; May 3; v. 286; p. 191.
Medicinal preparations. T. A. Walsh. No. 143,213; May 24; v. 286; p. 852.
Medicinal preparations. William S. Merrell Company. No. 143,087; May 24; v. 286; p. 848.
Medicinal treatment for rheumatism, &c. A. R. Stanley. No. 142,146; May 3; v. 286; p. 191.
Medicine and tonic for stock. Worm, H. A. Haynes. No. 143,361; May 31; v. 286; p. 1049.
Medicine applied externally to relieve pain. A. J. Leo. No. 143,070; May 24; v. 286; p. 848.
Medicine containing capsules for vaginal treatment. D. L. Knight. No. 141,997; May 3; v. 286; p. 186.
Medicine for blind foul and foot-halt in cattle. C. E. De Forest. No. 142,980; May 24; v. 286; p. 845.
Medicine for disease of the eye. J. Gozdal. No. 143,027; May 24; v. 286; p. 846.
Medicine for dyspepsia. B. J. Perkins. No. 143,134; May 24; v. 286; p. 850.
Medicine for eczema. A. Hudson and Sons. No. 141,972; May 3; v. 286; p. 185.

Medicine for nervous and sick headache. J. B. McManes. No. 142,378; May 10; v. 286; p. 409.
Medicine for rheumatism. J. Sorokowski. No. 143,476; May 31; v. 286; p. 1053.
Medicine for stomach and intestinal disorders. Pan American Chemical Company. No. 143,129; May 24; v. 286; p. 850.
Medicine for swine, Worm. Continental Serum Laboratories Co. No. 142,970; May 24; v. 286; p. 845.
Medicine for the respiratory organs. P. Herbert. No. 141,961; May 3; v. 286; p. 185.
Medicine, Liquid eye. Marvel Eye Medicine Co. No. 142,018; May 3; v. 286; p. 187.
Medicines and pharmaceutical preparations. S. Nishiguchi. No. 143,120; May 24; v. 286; p. 849.
Medicines for diseases of the tongue, mouth, and legs of cattle and horses. J. Sobolewski. No. 142,137; May 3; v. 286; p. 191.
Medicines, Poultry and stock. Puritan Products Co. No. 143,434; May 31; v. 286; p. 1052.
Metal, Babbitt-. Hoyt Metal Company. Nos. 142,275–6; May 10; v. 286; p. 404.
Metal cans or receptacles for waste material. Sanitary Receiver Company. No. 143,162; May 24; v. 286; p. 851.
Metal-cutting machinery, Compound for cooling the tools of. Eastbay Chemical Company. No. 143,323; May 31; v. 286; p. 1048.
Metal-cutting machinery, Compounds for cooling the tools of. Standard Chemical Co. No. 143,481; May 31; v. 286; p. 1053.
Metal products. H. A. Wilson Company. No. 142,177; May 3; v. 286; p. 192.
Metal-working tools. Gairing Tool Company. No. 143,341; May 31; v. 286; p. 1049.
Middy-blouses, house-dresses, &c. L. & H. Garment Mfg. Co. No. 142,293; May 10; v. 286; p. 405.
Milk and butter agitators. Kre-Mo Butter Agitator Company. No. 141,998; May 3; v. 286; p. 186.
Milk-chocolate. Peter Cailler Kohler Swiss Chocolates Co. No. 142,387; May 10; v. 286; p. 410.
Milk, cream, condensed milk, buttermilk. Orange County Milk Association. No. 143,124; May 24; v. 286; p. 849.
Milk, Evaporated. T. C. Leedom. No. 142,008; May 3; v. 286; p. 186.
Milk products and derivatives thereof. C. Dafen. No. 142,491; May 17; v. 286; p. 626.
Mineral and aerated waters, &c., including ginger-beer. O'Brien & Co. No. 142,075; May 3; v. 286; p. 189.
Moccasins. Bows Moccasin Company. No. 143,292; May 31; v. 286; p. 1047.
Molasses and syrups. American Molasses Company of New York. Nos. 142,417–20; May 17; v. 286; p. 623.
Mops. Gem Hammock & Fly Net Company. No. 143,013; May 24; v. 286; p. 846.
Mops. Massasoit Manufacturing Company. No. 142,614; May 17; v. 286; p. 629.
Mops, oil-mops, and cotton floor-brushes. Tate Manufacturing Company. No. 143,192; May 24; v. 286; p. 852.
Mortar, lime, &c. Leukolith G. m. b. H. No. 143,387; May 31; v. 286; p. 1050.
Motor-cars and accessories. A. V. Roe & Co. No. 142,732; May 17; v. 286; p. 633.
Motor-cars, motorcycles, cycle-cars, and parts thereof. A. Harper Sons and Bean. No. 143,035; May 24; v. 286; p. 847.
Motor-cars, vessels, boats, and rudders. Societe des Moteurs Gnome et Rhone. No. 143,175; May 24; v. 286; p. 851.
Motor-vehicles. Associated Equipment Company. No. 143,277; May 31; v. 286; p. 1047.
Motors, generators, converters, &c., Electric. The Fidelity Electric Company. No. 141,936; May 3; v. 286; p. 184.
Motorcycles and cycles, Cars for. Mills-Fulford. No. 142,053; May 3; v. 286; p. 188.
Mouth-wash. F. G. Bland. No. 141,872; May 3; v. 286; p. 182.
Mouth-wash. W. W. Levis. No. 142,009; May 3; v. 286; p. 187.
Mouth-wash and scalp remedy, Antiseptic. Mulhens & Kropff. No. 143,100; May 24; v. 286; p. 849.
Mouth-wash, Antiseptic. Alko Products Company. No. 142,914; May 24; v. 286; p. 843.
Mouth-washes. I. M. Cohn. No. 142,967; May 24; v. 286; p. 844.
Mouth-washes. Salzinco Company. No. 143,157; May 24; v. 286; p. 850.
Mowers, Lawn-. Pontiac Lawn Mower Co. No. 143,261; May 24; v. 286; p. 858.
Moving-picture and photo-play films. Fox Film Corporation. No. 143,001; May 24; v. 286; p. 846.
Music-roll holders, Folding. G. F. Usbeck. No. 142,811; May 17; v. 286; p. 635.
Music, Sheet-. Boston Music Co. No. 143,291; May 31; v. 286; p. 1047.
Musical instruments. Reed & Thompson. No. 142,724; May 17; v. 286; p. 632.
Musical instruments, Certain. L. Rosenblatt. No. 142,733; May 17; v. 286; p. 633.
Musical-instrument reeds. M. E. Vandoren. No. 142,815; May 17; v. 286; p. 635.
Nail polish, talcum powder, &c., Finger-. Roelly Chemical Co. No. 143,444; May 31; v. 286; p. 1052.
Neckbands. S. Diamond. No. 142,502; May 17; v. 286; p. 626.
Neckties. Pin Tel Manufacturing Corporation. No. 142,318; May 10; v. 286; p. 405.
Needles for hand-embroidery, &c. American Art Needle Company. No. 143,275; May 31; v. 286; p. 1047.
Needles, Hand-. A. L. Clark & Co. No. 141,899; May 3; v. 286; p. 183.
Needles, Package-. James Smith & Son, Redditch. No. 142,134; May 3; v. 286; p. 190.
Needles, Sailmakers'. James Smith & Son, Redditch. No. 142,135; May 3; v. 286; p. 191.
Negligées, dressing-sacks, pajamas, nightgowns, &c. Gerber Undergarment Company. No. 143,015; May 24; v. 286; p. 846.
Newspapers. News Syndicate Co. No. 143,119; May 24; v. 286; p. 849.
Night-shirts and pajamas. Lewis, Gerstman & Co. No. 142,544; May 17; v. 286; p. 627.
Non-alcoholic malt beverages. V-Loewer's Gambrinus Brewery Co. Nos. 142,673–4; May 17; v. 286; p. 631.
Notions. China Palace Company. No. 141,895; May 3; v. 286; p. 183.
Notions. Western Dry Goods Co. No. 143,511; May 31; v. 286; p. 1054.
Oatmeal. Purity Oats Company Branch of American Hominy Company. No. 143,142; May 24; v. 286; p. 850.
Oats, wheat hearts and flakes, &c., Crushed. Quaker Oats Company. No. 143,143; May 24; v. 286; p. 850.
Oil, Catarrhal. A. L. Share. No. 143,466; May 31; v. 286; p. 1053.
Oil, Cod-liver. Lanman & Kemp. No. 143,383; May 31; v. 286; p. 1050.
Oil-cups. Advanced Products Corporation. No. 142,227; May 10; v. 286; p. 403.
Oil dressing and paste for leather and ropes. G. A. Van Dyke. No. 142,814; May 17; v. 286; p. 635.
Oil-dressing for belting. Hoofoi Manufacturing Company. No. 143,371; May 31; v. 286; p. 1050.
Oil, Edible vegetable. American Cotton Oil Company. No. 141,834; May 3; v. 286; p. 181.
Oil, emulsified, Castor-. William S. Merrell Company. No. 142,039; May 3; v. 286; p. 188.
Oil-filters. Wm. W. Nugent & Co. No. 142,646; May 17; v. 286; p. 630.
Oil, Machine-. Grand Union Tea Co. No. 143,033; May 24; v. 286; p. 846.
Oil, olive-. Nunzio Stallone Bros. No. 142,628; May 17; v. 286; p. 629.
Oil, Refined cocoanut. Chas. Hollinshed Co. No. 143,369; May 31; v. 286; p. 1050.
Oil, Soluble cutting-. American Refining Company. No. 141,842; May 3; v. 286; p. 181.
Oils and greases. American Refining Company. No. 142,230; May 10; v. 286; p. 403.
Oils and greases. Société Anonyme A. André Fils. No. 143,174; May 24; v. 286; p. 851.
Oils and greases, Lubricating. Crew Levick Company. No. 143,309; May 31; v. 286; p. 1048.
Oils and greases, Lubricating. Naamlooze Vennootschap Olliefabricken, Insulinde. No. 143,104; May 24; v. 286; p. 849.
Oils for use in paints. W. B. Doxie. No. 142,987; May 24; v. 286; p. 845.
Oils, Motor-. H. Earl Clack Company. No. 141,897; May 3; v. 286; p. 183.
Ointment. Esko Products Company. No. 143,332; May 31; v. 286; p. 1048.
Ointment for the feet. Sorvan Company. No. 142,141; May 3; v. 286; p. 191.
Ointment for the treatment of corns and callous. R. Moysen. No. 142,057; May 3; v. 286; p. 188.
Ointment for treatment of tires and sore feet. A. Gross. No. 141,951; May 3; v. 286; p. 185.
Ointment, Pile-. Eagle Ointment Company. No. 141,931; May 3; v. 286; p. 184.
Oleomargarin. Baltimore Butterine Co. No. 142,857; May 17; v. 286; p. 637.
Oleomargarin. Baltimore Butterine Co. No. 143,282; May 31; v. 286; p. 1047.
Oleomargarin. Fox River Butter Company, Inc. No. 143,206; May 24; v. 286; p. 852.
Oleomargarin. Procter and Gamble Company. Nos. 142,716–17; May 17; v. 286; p. 632.
Olives. D. Gomez. No. 143,025; May 24; v. 286; p. 846.
Overalls. Kegan Grace Co. No. 143,058; May 24; v. 286; p. 847.
Optical and ophthalmic appliances. American Optical Company. No. 142,421; May 17; v. 286; p. 623.
Ouija-boards. A. L. Lamoreaux. No. 142,664; May 17; v. 286; p. 631.
Overalls, aprons, shirts, &c. L. W. Goldstone. No. 141,945; May 3; v. 286; p. 185.
Overalls, coats, pantaloons, pants, and play-suits, Ironall Factories Co. No. 142,584; May 17; v. 286; p. 628.
Overalls, jumpers, and work-shirts. Textile Products Manufacturing Company. Nos. 142,790–1; May 17; v. 286; p. 634.
Overalls, work-shirts, jackets, and pants. C. C. Hudson. No. 142,277; May 10; v. 286; p. 404.
Overcoats and suits, Men's and young men's. L. Perlstein. No. 142,704; May 17; v. 286; p. 632.
Overcoats, coats, vests, trousers, and pants. Neu-Pal Manufacturing Company. No. 143,116; May 24; v. 286; p. 849.

Overcoats, mackinaws, and reefers, Children's. I. Frank. No. 143,339; May 31; v. 286; p. 1049.
Packing. Westinghouse Air Brake Co. No. 143,512; May 31; v. 286; p. 1054.
Packing and gaskets, Sheet-. Consolidated Packing & Supply Co. No. 142,251; May 10; v. 286; p. 403.
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Padlocks, night-latches. Simmons Hardware Company. No. 142,393; May 10; v. 286; p. 411.
Pads and cushions, Seat. Widney Company. No. 142,839; May 17; v. 286; p. 636.
Paint, Bituminous. The Barrett Company. No. 141,858; May 3; v. 286; p. 182.
Paint, Bituminous. Wailes Dove Bitumastic Limited. Nos. 143,208–10; May 24; v. 286; p. 852.
Paint enamel. Continental Varnish Company. No. 142,476; May 17; v. 286; p. 625.
Paint enamel. H. L. Greenbaum. No. 142,271; May 10; v. 286; p. 404.
Paint enamels and finishes. Continental Varnish Company. No. 142,477; May 17; v. 286; p. 625.
Paint in paste form. R. F. Johnston Paint Company. No. 142,593; May 17; v. 286; p. 628.
Paint, Semipaste. Knight & Wall Co. No. 143,063; May 24; v. 286; p. 847.
Paints. R. F. Johnston Paint Co. No. 142,282; May 10; v. 286; p. 404.
Paints. Stearine McKay Manufacturing Co. No. 142,147; May 3; v. 286; p. 191.
Paints and painters' materials. Kay & Ess Company. Nos. 141,986–8; May 3; v. 286; p. 186.
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Paints and painters' materials. C. A. Nash & Son. No. 142,631; May 17; v. 286; p. 630.
Paints and painters' materials. Patterson-Sargent Company. No. 142,702; May 17; v. 286; p. 632.
Paints and painting materials. Chicago White Lead and Oil Co. No. 143,302; May 31; v. 286; p. 1048.
Paints and shingle-stains. G. F. Johnston. No. 141,984; May 3; v. 286; p. 186.
Paints and varnishes. New Orleans Paint & Color Company. No. 142,069; May 3; v. 286; p. 188.
Paints, colored varnishes, polishing-oil, &c. E. J. Murphy Company. No. 142,627; May 17; v. 286; p. 629.
Paints, paint enamels, and finishes of a paint nature. National Magnesite Products Corporation. No. 142,634; May 17; v. 286; p. 630.
Paints, Paste. Colonial Works. No. 141,903; May 3; v. 286; p. 183.
Paints, Ready-mixed. E. I. du Pont de Nemours & Company. No. 141,929; May 3; v. 286; p. 184.
Paints, Ready-mixed. J. G. Wilson Corporation. No. 142,397; May 10; v. 286; p. 411.
Paints, undercoating in the nature of paint, and varnishes, Enamel. Twin City Varnish Co. No. 142,799; May 17; v. 286; p. 635.
Paints, varnishes, floor-wax, &c. Colonial Works. No. 141,902; May 3; v. 286; p. 183.
Paints, wood-stains, Paint enamels, &c. Foy Paint Co. No. 143,006; May 24; v. 286; p. 846.
Pajamas and nightgowns. Goldstein-Kirshner Co. No. 143,023; May 24; v. 286; p. 846.
Paper. Waldes & Co. No. 143,506; May 31; v. 286; p. 1054.
Paper and blank forms. Tolman Print Inc. No. 142,157; May 3; v. 286; p. 191.
Paper and cardboard. Strathmore Paper Company. No 142,335; May 10; v. 286; p. 406.
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Paper, Cigarette-. Waldes & Co. No. 143,211; May 24; v. 286; p. 852.
Paper, Drawing-. C. B. Hewitt & Brothers. No. 142,564; May 17; v. 286; p. 628.
Paper, envelops, and cardboard. Main Paper Stock Co. No. 143,392; May 31; v. 286; p. 1050.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 142,452; May 17; v. 286; p. 624.
Paper fixtures, Toilet-. J. Frederick Palmer Mfg. Co. No. 142,869; May 17; v. 286; p. 638.
Paper, Ledger-. J. W. Butler Paper Co. Nos. 142,190–1; May 3; v. 286; p. 192.
Paper, Ledger-. Neenah Paper Company. No. 142,636; May 17; v. 286; p. 630.
Paper, Lithograph-. J. W. Butler Paper Company. No. 142,194; May 3; v. 286; p. 192.
Paper, paper napkins and towels, Toilet-. Wortendyke Manufacturing Co. No. 142,182; May 3; v. 286; p. 192.
Paper sacks or bags. Continental Paper Bag Co. No. 141,905; May 3; v. 286; p. 183.
Paper, Toilet-. Albany Perforated Wrapping Paper Co. No. 142,409; May 17; v. 286; p. 623.
Paper towels, napkins, wrappers, &c. Golco Sanitary System. No. 143,022; May 24; v. 286; p. 846.
Paper, Wall-. Kansas City Wall Paper Company. No. 143,374; May 31; v. 286; p. 1050.
Paper, Wall-. Louisville Wall Paper Company. No. 143,390; May 31; v. 286; p. 1050.
Paper, Wall-. Nebraska Wall Paper Company. No. 143,413; May 31; v. 286; p. 1051.
Paper, Writing-. Derryvale Linen Comapny. No. 142,981; May 24; v. 286; p. 845.
Papers, Cover and box. District of Columbia Paper Manufacturing Company. Nos. 142,984–5; May 24; v. 286; p. 845.
Papers, Moisture-proof, paraffin, and wax. Cleveland Waterproof Paper Company. No. 142,965; May 24; v. 286; p. 844.
Papers, Parchment-. Kalamazoo Vegetable Parchment Co. No. 142,210; May 3; v. 286; p. 192.
Papers, Printing and writing. Millers Falls Paper Company. No. 142,888; May 17; v. 286; p. 640.
Papeteries, writing and typewriting paper, &c. San Antonio Drug Co. No. 143,159; May 24; v. 286; p. 851.
Papeteries, writing tablets and paper, envelops. Powers Paper Company. No. 142,894; May 17; v. 286; p. 641.
Parasols and umbrellas. J. A. Mizel, Inc. No. 142,887; May 17; v. 286; p. 640.
Partitions and railings and interior trim, Removable or knockdown. Improved Office Partition Company. No. 142,580; May 17; v. 286; p. 628.
Paste, Adhesive. W. E. Malm. No. 142,603; May 17; v. 286; p. 629.
Paste, Adhesive. United Drug Company. No. 142,805; May 17; v. 286; p. 635.
Paste for massaging the gums. E. Cureton. No. 141,916; May 3; v. 286; p. 184.
Pastries, cakes, doughnuts, mince-meat. L. J. Johnson. No. 141,983; May 3; v. 286; p. 186.
Patterns. Butterick Publishing Company. No. 142,952; May 24; v. 286; p. 844.
Peanut-butter. W. J. Hirsch Co. No. 142,568; May 17; v. 286; p. 628.
Peanut-butter. Peanut Products Corporation. No. 142,703; May 17; v. 286; p. 632.
Peanut-butter. Southern Cotton Oil Company. No. 142,143; May 3; v. 286; p. 191.
Peanut-oil. C. Hollinshed Co. No. 142,570; May 17; v. 286; p. 628.
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Pearls and pearl necklaces. F. R. Heinick. No. 142,273; May 10; v. 286; p. 404.
Pearls, Artificial. Lippman's. No. 142,291; May 10; v. 286; p. 405.
Pearls, precious, semiprecious, and synthetic stones used as jewelry. Czechoslovak Bead Company. No. 143,310; May 31; v. 286; p. 1048.
Pencils. Joseph Dixon Crucible Company. No. 143,316; May 31; v. 286; p. 1048.
Pencils, Lead-. American Lead Pencil Company. No. 141,837; May 3; v. 286; p. 181.
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Pencils, Lead-. Standard Pencil Co. No. 143,180; May 24; v. 286; p. 851.
Penknives, butcher, table, and kitchen knives. Allen Cutlery Company. No. 141,831; May 3; v. 286; p. 181.
Pens, Feeding attachment for. C. F. Clarke. No. 141,898; May 3; v. 286; p. 183.
Perfume, rouge, &c. A. D. Lindemann. No. 142,012; May 3; v. 286; p. 187.
Perfumes, cosmetics, and skin-lotions. L. Philippe. No. 143,135; May 24; v. 286; p. 850.
Perfumes, rice powders, cologne-waters, &c. Société Anonyme Parfumerie Ramses. No. 143,173; May 24; v. 286; p. 851.
Perfumes, toilet waters, face-powder, &c. Palmers, Limited. No. 143,419; May 31; v. 286; p. 1051.
Perfumes, toilet waters, pomades, rice powders, &c. J. Brach. No. 142,945; May 24; v. 286; p. 844.
Periodical, Monthly. Armco Culvert & Flume Manufacturers' Association. No. 142,918; May 24; v. 286; p. 843.
Periodical, Monthly. National Bank of Commerce in New York. No. 142,306; May 10; v. 286; p. 405.
Periodicals, Monthly. Gardner, Moffat Co. No. 143,010; May 24; v. 286; p. 846.
Perspiration, Prevention of excessive. L. Miller. No. 142,049; May 3; v. 286; p. 188.
Petrolatum. Standard Oil Company. No. 143,189; May 24; v. 286; p. 851.
Pharmaceutical preparation. H. O. Berg. No. 141,867; May 3; v. 286; p. 182.
Pharmaceutical preparation for treatment of tobacco habit. M. H. Swafford. No. 143,188; May 24; v. 286; p. 851.
Pharmaceutical preparations. E. E. Malone. No. 142,016; May 3; v. 286; p. 187.
Pharmaceutical product. Chemische Fabrik vormals Sandoz. Nos. 142,955–6; May 24; v. 286; p. 844.
Phonograph-cabinets and parts thereof, case material. R. L. Buell. No. 142,460; May 17; v. 286; p. 625.
Phonograph-records and books therefor. Talking Book Corporation. No. 142,151; May 3; v. 286; p. 191.
Phonographs. Geo. B. Clark Co. No. 143,304; May 31; v. 286; p. 1048.

Phonographs. M. F. Fybush. No. 141,906; May 3; v. 286; p. 183.
Photographic film. Eastman Kodak Company. No. 141,932; May 3; v. 286; p. 184.
Photographic prints. Winstead Photo Finishing Company. No. 143,227; May 24; v. 286; p. 853.
Pianos and player-pianos. Cable Company. No. 143,294; May 31; v. 286; p. 1047.
Pianos and player-pianos. Jackson Piano Co. No. 142,372; May 10; v. 286; p. 408.
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Picture films, Moving-. Bible Films Inc. No. 142,934; May 24; v. 286; p. 843.
Picture films, Moving-. Peacock Productions, Inc. No. 143,131; May 24; v. 286; p. 850.
Picture films, Moving-. United Drug Company. No. 142,159; May 3; v. 286; p. 191.
Picture-projecting machines and parts thereon, Motion-. The Foreign Patents Corporation. No. 142,533; May 17; v. 286; p. 627.
Piece goods. Weissenbach & Kay. No. 143,509; May 31; v. 286; p. 1054.
Piece goods of silk, wool, linen, &c. Bianchini, Férier. No. 142,538; May 17; v. 286; p. 627.
Pillows, Sofa-cushions, &c. Sanitary Feather Co. No. 142,390; May 10; v. 286; p. 411.
Pills, Laxative. G. C. Wilson. No. 142,176; May 3; v. 286; p. 192.
Pills, Liver-. Harrington Brothers. No. 141,950; May 3; v. 286; p. 185.
Pills of essence of tar. Soc. Prodotti chimico-farmaceutici A. Bertelli & C. No. 143,177; May 24; v. 286; p. 851.
Pins, Safety-. Lindeke, Warner & Sons. No. 142,290; May 10; v. 286; p. 405.
Pins, Safety-. New York Merchandise Company. No. 142,070; May 3; v. 286; p. 188.
Pins, Safety-. Penn Rivet Corporation. No. 143,422; May 31; v. 286; p. 1051.
Pins, Safety-. Sears, Roebuck and Company. No. 142,330; May 10; v. 286; p. 406.
Pins, Toilet-. Penn Rivet Corporation. No. 143,423; May 31; v. 286; p. 1051.
Pipe-fitting tools. Walworth Manufacturing Company. No. 143,507; May 31; v. 286; p. 1054.
Pipe fittings and valves, Steam, water, and gas. Walworth Manufacturing Company. No. 142,346; May 10; v. 286; p. 406.
Pipes and cigar and cigarette holders. L. Simon. No. 142,765; May 17; v. 286; p. 634.
Piston-rings. Pressure Proof Piston Ring Company. No. 143,263; May 24; v. 286; p. 858.
Piston-rings, Metal. Trione Piston Ring Company. No. 142,340; May 10; v. 286; p. 406.
Pitch, roslns, and tar. Pennsylvania Refining Company. No. 142,086; May 3; v. 286; p. 189.
Plant food. E. G. Steitz. No. 142,779; May 17; v. 286; p. 634.
Plaster and cement, Building. H. K. Hedges. No. 141,960; May 3; v. 286; p. 185.
Plaster for pneumonia, bronchitis, &c., Medicinal. Pneumo Phthysine Chem. Mfg. Co. No. 143,138; May 24; v. 286; p. 850.
Plasters and cement. J. D. Caughey. No. 142,197; May 3; v. 286; p. 192.
Plasters, Corn, bunion, and callous. C. W. Westenfelter. No. 142,171; May 3; v. 286; p. 192.
Play-suits, rompers, children's pants, overalls, &c. Levi Strauss & Co. No. 143,183; May 24; v. 286; p. 851.
Pliers, Offset slip-joint. H. D. Smith & Company. No. 143,171; May 24; v. 286; p. 851.
Plow shares or scrapes. G. P. Dowling Hardware Co. No. 141,927; May 3; v. 286; p. 184.
Plumbers' supplies, &c. Thomas Maddock's Sons Co. No. 142,794; May 17; v. 286; p. 634.
Polish for pianos, phonographs, and furniture. H. Helbig. No. 142,876; May 17; v. 286; p. 639.
Polishes for all kinds of leather articles. Société Anonyme des Produits du Lion Noir. No. 143,474; May 31; v. 286; p. 1053.
Polishes for furniture, &c. Harzee Manufacturing Company. No. 142,559; May 17; v. 286; p. 627.
Porcelain articles, Electrical. Federal Porcelain Co. No. 141,935; May 3; v. 286; p. 184.
Portraits, sketches, drawings, &c. B. H. Scotford. No. 142,751; May 17; v. 286; p. 633.
Potash, phosphates, and chemical fertilizers. Diamond Potash Company. No. 142,982; May 24; v. 286; p. 845.
Poultry and hatching-eggs, Live. Quality Poultry Farm. No. 143,144; May 24; v. 286; p. 850.
Powder and paste, Tooth. F. M. Beaty. No. 141,865; May 3; v. 286; p. 182.
Powder, Baking-. General Chemical Company. No. 143,014; May 24; v. 286; p. 846.
Powder, Talcum. Talcum Puff Company. No. 143,190; May 24; v. 286; p. 851.
Powders, Antiseptic. G. Adams. No. 142,911; May 24; v. 286; p. 843.
Powders, perfume, toilet waters, Face and talcum. Elmo Inc. Nos. 143,326–8; May 31; v. 286; p. 1048.
Precious stones, jewelry, semi-precious and artificial precious stones, &c. H. Weissman. No. 142,169; May 3; v. 286; p. 192.
Preparation for cleaning, brightening, and polishing silver and other metals. Colgate & Company. No. 142,361; May 10; v. 286; p. 407.
Preparation for cleaning glass. Howard & Scott. No. 142,574; May 17; v. 286; p. 628.
Preparation for coughs, colds, croup, &c. J. W. Duffee Mfg. Co. No. 141,928; May 3; v. 286; p. 184.
Preparation for tinting the cheeks and a pomade for the hair. J. H. Moore. No. 142,622; May 17; v. 286; p. 629.
Preparation for treatment and removal of warts and moles. Miller Manufacturing Company. No. 143,520; May 31; v. 286; p. 1055.
Preparation for the treatment of catarrh and colds, Liquid. C. K. Fielder. No. 141,937; May 3; v. 286; p. 184.
Preparation for the treatment of gall-stones. H. M. Murphy. No. 143,102; May 24; v. 286; p. 849.
Preparation for treatment of headache, neuralgia, colds, &c. R. B. Napier. No. 143,106; May 24; v. 286; p. 849.
Preparation for treatment of kidney, liver, &c., debility. J. Gibbs. No. 143,024; May 24; v. 286; p. 846.
Preparation for the treatment of pyorrhea. C. W. Archer. No. 141,845; May 3; v. 286; p. 181.
Preparation for treatment of rheumatism. F. Russo. No. 143,154; May 24; v. 286; p. 850.
Preparation for treatment of skin diseases. J. D'Arcy. No. 142,976; May 24; v. 286; p. 845.
Preparation for the treatment of tuberculosis, catarrh, &c. Ernst Wine of Tana Manufacturing Co. No. 142,996; May 24; v. 286; p. 845.
Preparation to remove corns, bunions, and callouses. J. A. Solled. No. 142,140; May 3; v. 286; p. 191.
Preparation used as a hair-tonic. A. P. Avila. No. 142,924; May 24; v. 286; p. 843.
Preparation which beautifies the hair and aids its growth. E. G. Price. No. 143,139; May 24; v. 286; p. 850.
Preserves. Adams & Mitchell. No. 141,825; May 3; v. 286; p. 181.
Printed forms, Instruction-blanks, and account-books, Partially-. Kessel Account Book Company. No. 143,064; May 24; v. 286; p. 847.
Printing-plates ready for printing. International Printing Plate Co. No. 143,372; May 31; v. 286; p. 1050.
Printing-presses, Grippers for use on. Casper Gripper Co. No. 143,300; May 31; v. 286; p. 1048.
Printing-presses, &c., Rotary. Duplex Printing Press Co No. 142,866; May 17; v. 286; p. 638.
Prophylactic and iodin preparations. Menley & James. No. 142,021; May 3; v. 286; p. 187.
Publication. William Macbeth, Inc. No. 142,600; May 17; v. 286; p. 629.
Publication, Monthly. California Oregon Power Co. No. 142,246; May 10; v. 286; p. 403.
Publication, Monthly. Glass Industry Publishing Co. No. 142,269; May 10; v. 286; p. 404.
Publication, Monthly-. Line-A-Time Mfg. Co. No. 143,072; May 24; v. 286; p. 848.
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Publication, Monthly technical. Penton Publishing Company. No. 143,427; May 31; v. 286; p. 1051.
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Publication, Weekly. F. J. Campbell. No. 141,884; May 3; v. 286; p. 183.
Publications. Funk & Wagnalls Company. No. 143,009; May 24; v. 286; p. 846.
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Pump-valves. Stewart R. Browne Mfg. Co. No. 142,148; May 3; v. 286; p. 191.
Pumps and parts thereof, Hydraulic. Ashwell & Nesbit. No. 141,847; May 3; v. 286; p. 182.
Pumps and pumping plants and parts thereof. Monarch Foundry Company. No. 142,055; May 3; v. 286; p. 188.
Pumps, Indicators for liquid-dispensing. C. S. Ayres. No. 142,925; May 24; v. 286; p. 843.
Pyrometers. Brown Instrument Company. No. 143,236; May 24; v. 286; p. 855.
Quinin, Chocolate syrup of. William S. Merrell Company. No. 142,027; May 3; v. 286; p. 187.
Rabbit, Jellied. Arthur J. Billin & Co. No. 143,287; May 31; v. 286; p. 1047.
Racks and trays. Fuller Brush Company. No. 143,340; May 31; v. 286; p. 1049.
Raincoats. C. B. Shane Co. No. 142,758; May 17; v. 286; p. 633.
Razor-blade holders, Safety-. B. Carlisle. No. 142,953; May 24; v. 286; p. 844.
Razor-strop dressing. Need-No-Hone Company. No. 142,218; May 3; v. 286; p. 192.
Razors. E. Morris. No. 142,625; May 17; v. 286; p. 629.
Razors and safety-razor blades. S. Isaacs. No. 142,281; May 10; v. 286; p. 404.
Razors, Safety-razors, pocket-knives, &c. P. Smith. No. 142,136; May 3; v. 286; p. 191.
Reamers. McCrosky Tool Corporation. No. 142,598; May 17; v. 286; p. 629.
Reamers, taps, dies, and milling-cutters. Keystone Reamer & Tool Company. No. 141,991; May 3; v. 286; p. 186.
Receptacles. The Cronkhite Co. No. 141,912; May 3; v. 286; p. 184.

Receptacles. Fiberloid Corporation. No. 142,525; May 17; v. 286; p. 626.
Receptacles. U. S. Plastic Art Works. No. 143,201; May 24; v. 286; p. 852.
Receptacles made of a combination of paper-pulp and other ingredients. C. A. Sawyer. No. 142,120; May 3; v. 286; p. 190.
Reflectors for electric signs, Glass. Radio Bulb Company. No. 142,719; May 17; v. 286; p. 632.
Refractory cement for high temperature uses. Laclede-Christy Products Company. No. 143,067; May 24; v. 286; p. 848.
Refrigerating apparatus. Kelvinator Corporation. No. 142,652; May 17; v. 286; p. 630.
Refrigerating-machines. J. Ellmauer. No. 142,514; May 17; v. 286; p. 626.
Refrigerators. Alaska Refrigerator Company. No. 142,408; May 17; v. 286; p. 623.
Refrigerators. P. R. Rincones, Jr., Company. No. 142,731; May 17; v. 286; p. 633.
Refrigerators and cooling rooms. Northey Manufacturing Company. No. 143,416; May 31; v. 286; p 1051.
Remedy, Antipyretic. Confectionery Ingredients, Limited. No. 142,968; May 24; v. 286; p. 845.
Remedy for boils, carbuncles, &c. R. S. Platt. No. 142,093; May 3; v. 286; p. 189.
Remedy for corns. J. B. Clower. No. 142,966; May 24; v. 286; p. 844.
Remedy for coughs and colds and a tonic for respiratory organs. Bristol-Myers Company. No. 142,948; May 24; v. 286; p. 844.
Remedy for rheumatism, &c. Winthrop Chemical Company. No. 142,178; May 3; v. 286; p. 192.
Remedy, Laxative cold and grip. C. W. Westenfelter. No. 142,172; May 3; v. 286; p. 192.
Rings, Finger. C. B. Namiot. No. 143,105; May 24; v. 286; p. 849.
Rings, Wedding. Lebolt & Company. No. 143,066; May 24; v. 286; p. 847.
Rivet-sets. Rich Tool Company. No. 142,741; May 17; v. 286; p. 633.
Roofing, Composition felt. Texas Company. No. 142,153; May 3; v. 286; p. 191.
Root-beer and ginger-ale. H. B. Hunter Co. No. 142,278; May 10; v. 286; p. 404.
Rope, cord, and twine. American Manufacturing Company. Nos. 142,411–16; May 17; v. 286; p. 623.
Rope made from manila, &c. Columbian Rope Company. No. 142,475; May 17; v. 286; p. 625.
Rope, Manila. Portland Cordage Co. No. 142,709; May 17; v. 286; p. 632.
Rope, Manila. Portland Cordage Co. No. 142,713; May 17; v. 286; p. 632.
Rope, Manila. Whitlock Cordage Co. No. 142,837; May 17; v. 286; p. 636.
Rope, Manila fiber. Whitlock Cordage Co. No. 142,836; May 17; v. 286; p. 636.
Ropes, fiber cords, twine, and binder-twine, Non-metallic. B. F. Avery & Sons. No. 142,438; May 17; v. 286; p. 624.
Rubber erasers. Joseph Dixon Crucible Company. No. 142,257; May 10; v. 286; p. 404.
Rubber heels. Hill Rubber Heel Company. No. 143,367; May 31; v. 286; p. 1050.
Rubber heels. R. E. Miller, Inc. No. 142,379; May 10; v. 286; p. 409.
Rubber horseshoe-pads. Vought & Williams. No. 142,344; May 10; v. 286; p. 406.
Rubber household aprons, baby-pants, diapers, &c. I. B. Kleinert Rubber Company. No. 142,284; May 10; v. 286; p. 404.
Rubber sponges. Miller Rubber Company. No. 143,091; May 24; v. 286; p. 848.
Rubber sponges and sponge-rubber goods. Featheredge Rubber Company. No. 142,519; May 17; v. 286; p. 626.
Rubefacient solution. Sharp & Dohme. No. 142,125; May 3; v. 286; p. 190.
Rugs, Rag and grass. M. Feldman. No. 143,243; May 24; v. 286; p. 856.
Salt. Alex. Kerr Bros. & Co. No. 143,059; May 24; v. 286; p. 847.
Salts. M. F. Pratt. No. 142,388; May 10; v. 286; p. 410.
Salve. T. V. Legros. No. 143,068; May 24; v. 286; p. 848.
Salve. R. McD. Smith & Sons. No. 143,172; May 24; v. 286; p. 851.
Salve. Misto Manufacturing Co. No. 143,097; May 24; v. 286; p. 849.
Salve. G. C. Wilson. No. 143,224; May 24; v. 286; p. 853.
Salve for drawing and healing boils, &c. E. Greenbaum. No. 141,950; May 3; v. 286; p. 185.
Salve for eczema, &c. L. B. Williams. No. 142,175; May 3; v. 286; p. 192.
Salve for the feet. M. Woytko. No. 142,183; May 3; v. 286; p. 192.
Salve, Medicinal. G. Horzsa. No. 141,969; May 3; v. 286; p. 185.
Sardines, Olives, canned cherries. Cresca Company. No. 142,196; May 3; v. 286; p. 192.
Sash, windows, doors, blinds, &c. Cole Manufacturing Company. No. 141,901; May 3; v. 286; p. 183.
Sausages. Western Sausage & Provision Co. No. 142,835; May 17; v. 286; p. 636.
Sawmill-hogs. Diamond Iron Works. No. 141,922; May 3; v. 286; p. 184.
Sawmills. Hull Auto Company. No. 142,556; May 17; v. 286; p. 627.
Saws. H. Boker & Co. No. 141,874; May 3; v. 286; p. 182.
Saws. Henry Disston & Sons. Nos. 142,864–5; May 17; v. 286; p. 638.
Scalp and hair-tonic, Compound for the treatment of the. L. P. Moultrie. No. 143,099; May 24; v. 286; p. 849.
Scarf-pin protectors. M. A. Fischer. No. 142,529; May 17; v. 286; p. 627.
Scarfs, blankets, mats, &c., Bureau and table. F. A. Patrick & Co. No. 142,891; May 17; v. 286; p. 641.
Scissors and shears. Acme Shear Company. No. 142,401; May 17; v. 286; p. 623.
Scouring-powder, Kosher. Kirkman & Son. No. 141,994; May 3; v. 286; p. 186.
Searchlights or spotlights, Vehicle. Brilliant Search Light Mfg. Co. No. 142,188; May 3; v. 286; p. 192.
Seed and seed-grain, Field-. Magill & Co. No. 143,255; May 24; v. 286; p. 857.
Seeds, Field, clover, and grass. Milwaukee Seed Co. No. 143,095; May 24; v. 286; p. 848.
Seeds, Field, vegetable, and flower. Garden Seed Company. No. 143,343; May 31; v. 286; p. 1049.
Seeds, Garden, field, and flower. John A. Salzer Seed Co. No. 143,158; May 24; v. 286; p. 850.
Seeds, shrubs, plants, trees. W. B. Rosevear, Jr. No. 142,735; May 17; v. 286; p. 633.
Shade cloths, Window-. Pabst & Company. No. 142,686; May 17; v. 286; p. 631.
Shade cloths, Window-. Pabst & Company. No. 143,127; May 24; v. 286; p. 849.
Shampoo. E. L. Patch Co. No. 142,082; May 3; v. 286; p. 189.
Sharpening scissors, Devices for mechanically. B. Carlisle. No. 143,297; May 31; v. 286; p. 1047.
Shaving-cream. Citizens' Wholesale Supply Company. No. 143,303; May 31; v. 286; p. 1048.
Shaving-cream. Kreem-Eze Company. No. 142,881; May 17; v. 286; p. 640.
Shaving-sticks. J. B. Williams Company. No. 142,396; May 10; v. 286; p. 411.
Sheets, pillow cases, and cotton goods in the piece. Erwin Cotton Mills Co. No. 143,331; May 31; v. 286; p. 1048.
Sheets, pillow-cases, cotton piece goods. Erwin Cotton Mills Co. No. 142,202; May 3; v. 286; p. 192.
Shingles, Wooden. Krauss Bros. Lumber Co. No. 143,381; May 31; v. 286; p. 1050.
Shirts and overalls. Spaide Shirt Company. No. 143,178; May 24; v. 286; p. 851.
Shirts and pajamas, Negligée. Berkshire Shirt Co. No. 142,239; May 10; v. 286; p. 403.
Shirts, Dress and negligée. Marcus-Casper Corp. No. 143,075; May 24; v. 286; p. 848.
Shirts, pajamas, nightshirts. Broom & Newman. No. 142,458; May 17; v. 286; p. 625.
Shirts, pants, and overalls. Fisher Brothers. No. 142,530; May 17; v. 286; p. 627.
Shirts, Work-. Reliance Manufacturing Company. No. 142,105; May 3; v. 286; p. 190.
Shirtwaists, Ladies'. Diana Waist Co. No. 142,256; May 10; v. 286; p. 404.
Shock-absorbers for vehicles. John Warren Watson Company. No. 143,508; May 31; v. 286; p. 1054.
Shoe-dressing. P. Thoreson. No. 143,490; May 31; v. 286; p. 1053.
Shoe laces and horns, button-hooks. Dorothy Dodd Shoe Company. No. 142,503; May 17; v. 286; p. 626.
Shoe laces and horns, button-hooks. Thomas G. Plant Company. No. 142,708; May 7; v. 286; p. 632.
Shoe parts. A. C. Lawrence Leather Co. No. 143,384; May 31; v. 286; p. 1050.
Shoe polishes and dressings. Vassilatos Bros. No. 142,816; May 17; v. 286; p. 635.
Shoe polishes and dressing. G. W. Wrennick. No. 143,516; May 31; v. 286; p. 1054.
Shoes. Dunn & McCarthy. No. 142,510; May 17; v. 286; p. 626.
Shoes. Kiddy Shoe Service. No. 142,283; May 10; v. 286; p. 404.
Shoes. Krohn-Fechheimer Company. No. 142,663; May 17; v. 286; p. 631.
Shoes. I. Miller Sons & Co. Inc. No. 143,094; May 24; v. 286; p. 848.
Shoes. Shaft-Pierce Shoe Co. No. 142,898; May 17; v. 286; p. 642.
Shoes. Trultt Brothers. No. 142,798; May 17; v. 286; p. 635.
Shoes and gloves. Hirth Krause Company. No. 143,043; May 24; v. 286; p. 847.
Shoes and insoles and heels, Leather and fabric. Philadelphia Shoe Repairing Company. No. 142,317; May 10; v. 286; p. 405.
Shoes and oxfords. National Cloak & Suit Co. No. 142,632; May 17; v. 286; p. 630.
Shoes and slippers made of fabric, Infants'. Tweedle Footwear Corporation. No. 142,341; May 10; v. 286; p. 406.
Shoes, Bathing-. W. Grellich & Sons, Inc. No. 143,028; May 24; v. 286; p. 846.
Shoes for women, misses, and children. I. Miller & Sons. No. 142,044; May 3; v. 286; p. 188.

Shoes, Infants'. American Baby Shoe Co. No. 142,228; May 10; v. 286; p. 403.
Shoes, Leather, rubber, &c. Bluff City Shoe Company. No. 142,937; May 24; v. 286; p. 844.
Shoes, Men's leather. Rogers Peet Company. No. 142,316; May 10; v. 286; p. 405.
Shoes of leather, fabric, and combination. Morse & Burt Co. No. 143,405; May 31; v. 286; p. 1051.
Shoes, oxfords, and sandals. E. J. Ramsey. No. 142,098; May 3; v. 286; p. 189.
Shooting device called sling-shot. A. R. De Pass. No. 142,912; May 24; v. 286; p. 843.
Shortening. Eney Shortening Co. No. 142,515; May 17; v. 286; p. 626.
Shortening. Eney Shortening Co. No. 142,995; May 24; v. 286; p. 845.
Shovels and scoops. Pittsburgh Shovel Company. No. 143,137; May 24; v. 286; p. 850.
Signs made of wood or metal. H. L. Nielsen. No. 143,414; May 31; v. 286; p. 1051.
Signs, Photographic and stenciled. The Copymakers Corporation. No. 142,969; May 24; v. 286; p. 845.
Silk and cotton piece goods. Seekenep Silk Co. No. 142,755; May 17; v. 286; p. 633.
Silk and silk and wool mixture piece goods. Hess, Goldsmith & Co. No. 143,364; May 31; v. 286; p. 1049.
Silk, cotton, &c., piece goods. H. B. Lederer Co. No. 142,007; May 3; v. 286; p. 186.
Silk goods and mixtures of silk and linen in the piece. J. Miller Sons & Co. No. 143,092; May 24; v. 286; p. 848.
Silk hair-nets. Fuld, Traube & Co. No. 142,537; May 17; v. 286; p. 627.
Silk in the piece, Dress-. Jansen and Pretzfeld. No. 142,587; May 17; v. 286; p. 628.
Silk, linen, &c., piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 142,555; May 17; v. 286; p. 627.
Silk piece goods. H. R. Mallinson & Co. Nos. 142,883–4; May 17; v. 286; p. 640.
Silk piece goods. A. S. Rosenthal Co. No. 143,445; May 31; v. 286; p. 1052.
Silk piece goods. Susquehanna Silk Mills. No. 143,187; May 24; v. 286; p. 851.
Silk, Thrown. R. K. Laros Silk Co. No. 142,004; May 3; v. 286; p. 186.
Silk, wool, linen, &c. piece goods. Bianchini, Férier. No. 141,870; May 3; v. 286; p. 182.
Silk, woolen, cotton, and linen fabrics. Haas Brothers Fabrics Corporation. No. 142,554; May 17; v. 286; p. 627.
Silk, woolen, cotton, and linen piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 143,034; May 24; v. 286; p. 847.
Silks in the bulk and the piece. National Mercantile Corporation of California. No. 143,109; May 24; v. 286; p. 849.
Silks, satins, cottons, &c. Metropolitan Sewing Machine Corporation. No. 143,256; May 24; v. 286; p. 857.
Silver and metal polish. G. H. Johnston. No. 142,591; May 17; v. 286; p. 628.
Skins of animals used in the fur industry. C. & E. Chapel Freres & Cie. Nos. 142,466–7; May 17; v. 286; p. 625.
Sleds. Sherwood Bros. Mfg. Co. No. 142,762; May 17; v. 286; p. 633.
Sleds and boys' wagons for play. Simmons Hardware Company. No. 142,130; May 3; v. 286; p. 190.
Sleds and coaster-wagons, children's. Marshall-Wells Company. No. 142,017; May 13; v. 286; p. 187.
Sleeping-garments. J. Silberman. No. 142,764; May 17; v. 286; p. 633.
Slippers of leather, Ladies' house-. Baker Shoe Co. No. 142,441; May 17; v. 286; p. 624.
Snap-fasteners. Chas. Rubens & Co. No. 142,325; May 10; v. 286; p. 406.
Snap-fasteners. Lindeke, Warner & Sons. No. 142,289; May 10; v. 286; p. 405.
Soap. Coco Soap Company. No. 143,307; May 31; v. 286; p. 1048.
Soap. Howard Bros. Chemical Co. No. 142,572; May 17; v. 286; p. 628.
Soap. T. C. Kansas. No. 142,648; May 17; v. 286; p. 630.
Soap. R. Miller. No. 142,050; May 3; v. 286; p. 188.
Soap. Mu-Col Company. No. 143,407; May 31; v. 286; p. 1051.
Soap. Parfumerie Lournay. Nos. 142,696–9; May 17; v. 286; pp. 631–2.
Soap. Standard Oil Company of New York. No. 142,775; May 17; v. 286; p. 634.
Soap and oil-soaps and soap powder, Laundry. Harris Soap Company. No. 143,246; May 24; v. 286; p. 856.
Soap, Cleaning and grease-removing. It's It Manufacturing Co. No. 142,586; May 17; v. 286; p. 628.
Soap flakes. W. C. Graham. No. 142,548; May 17; v. 286; p. 627.
Soap in the form of a paste. Posey & Meyer Co. No. 143,431; May 31; v. 286; p. 1052.
Soap of pastelike consistency. Skat Company. No. 142,766; May 17; v. 286; p. 634.
Soap powder for shaving. Colgate & Company. No. 142,360; May 10; v. 286; p. 407.
Soap, soap chips, &c., Laundry and toilet. Amboy Products Co. No. 143,274; May 31; v. 286; p. 1047.
Soap, White naphtha. Rub-No-More Company. No. 142,118; May 3; v. 286; p. 190.
Soaps. Neble & Company. No. 143,412; May 31; v. 286; p. 1051.
Soaps. Northwestern Soap Manufacturing Company. No. 142,643; May 17; v. 286; p. 630.
Soaps. Prichard & Constance. No. 143,140; May 24; v. 286; p. 850.
Soaps. Uno Manufacturing Company. No. 142,810; May 17; v. 286; p. 635.
Soaps and cleaners. Rath Manufacturing Company. No. 142,721; May 17; v. 286; p. 632.
Soaps, Medicated and shaving. Mulhens & Kropff. No. 143,408; May 31; v. 286; p. 1051.
Soaps, Toilet. F. G. Burke. No. 141,882; May 3; v. 286; p. 183.
Soaps, Toilet and bath. Kaufman-Straus Co. No. 143,375; May 31; v. 286; p. 1050.
Sodium and lithium compound salt. William S. Merrell Company. No. 142,031; May 3; v. 286; p. 187.
Soil food. M. Chupka. No. 141,896; May 3; v. 286; p. 183.
Solder combined with a flux. A. Lindahl. Nos. 142,671–2; May 17; v. 286; p. 631.
Soldering-flux and radiator-soldering solution. Liquid Solder Company. No. 143,073; May 24; v. 286; p. 848.
Sourwood compound, a diuretic cordial for urinary and kidney disorders. William S. Merrell Company. No. 143,083; May 24; v. 286; p. 848.
Spark-intensifiers and ignition-detectors. Nash Company. No. 142,629; May 17; v. 286; p. 630.
Spark-plugs. J. R. Ayotte. No. 141,853; May 3; v. 286; p. 182.
Spark-plugs. King Bed Spark Plug Company. No. 142,657; May 17; v. 286; p. 630.
Spark-plugs. Michigan Spark Plug Co. No. 143,398; May 31; v. 286; p. 1051.
Sphygmomanometers. Federal Products Corporation. No. 142,520; May 17; v. 286; p. 626.
Spraying compound. A. D. Blackburn. No. 142,240; May 10; v. 286; p. 403.
Springs, Wire bed and chair mattress and cushion. Milwaukee Woven Wire Works. No. 143,096; May 24; v. 286; p. 849.
Steel, Tool and gear. Liberty Steel Products Co. Inc. No. 142,668; May 17; v. 286; p. 631.
Steels. Arthur Balfour & Company. No. 141,854; May 3; v. 286; p. 182.
Steels. Easterbrook Allcard & Co. No. 141,829; May 3; v. 286; p. 181.
Stepladders. Krathwohl Mfg. Co. No. 143,380; May 31; v. 286; p. 1050.
Stereopticon-slide protectors and parts thereof, Electrically-operated. Automatic Illuminated Advertising Corporation. No. 142,922; May 24; v. 286; p. 843.
Stillingia and lobelia compound, for coughs, colds, &c. William S. Merrell Company. No. 143,081; May 24; v. 286; p. 848.
Stone and brick, Artificial. W. L. Sanderson. No. 142,121; May 3; v. 286; p. 190.
Stone, Cut. Ingalls Stone Company. No. 142,879; May 17; v. 286; p. 639.
Store-fixtures. Barlow-Kimnet Co. No. 141,857; May 3; v. 286; p. 182.
Stove-polish. H. Slatkin. No. 142,767; May 17; v. 286; p. 634.
Stovepipes and stovepipe-elbows. Hemp & Co. (Corp.) No. 143,362; May 31; v. 286; p. 1049.
Stoves, heaters, lamps, lanterns, &c. Standard Oil Company of New York. No. 143,482; May 31; v. 286; p. 1053.
Stoves, ranges, furnaces. Phillips & Clark Stove Co. No. 142,091; May 3; v. 286; p. 189.
String, twine, cord, and rope. D. P. Winne Co. No. 142,846; May 17; v. 286; p. 636.
Stucco, composition flooring, and plaster. Sunderland Brothers Company. No. 143,485; May 31; v. 286; p. 1053.
Suits and overcoats, Men's. Pollock & Beckoff. No. 142,095; May 3; v. 286; p. 189.
Suits and trousers, Outer. Sears, Roebuck and Co. No. 142,753; May 17; v. 286; p. 633.
Suits, Boys' knickerbocker-. Associated Merchandising Corporation. No. 143,279; May 31; v. 286; p. 1047.
Suits, Men's. Schlang & Co. No. 143,460; May 31; v. 286; p. 1052.
Suits, Men's and boys' work-. Western Dry Goods Company. No. 142,834; May 17; v. 286; p. 636.
Suppositories, Antiseptic vaginal. William S. Merrell Company. No. 142,032; May 3; v. 286; p. 187.
Suspenders, hose-supporters, garters, &c. Russell Manufacturing Company. No. 142,737–8; May 17; v. 286; p. 633.
Sweaters. P. White. No. 142,349; May 10; v. 286; p. 406.
Sweaters. P. White. No. 142,906; May 17; v. 286; p. 642.
Sweaters, coats, scarfs, caps, &c. M. Vanderwait. No. 142,813; v. 286; p. 635.
Sweaters, sweater-coats, bathing-suits, knitted caps and boots. Brunswick Knitting Co. No. 143,237; May 24; v. 286; p. 855.
Sweetmeats. G. Pfeffer. No. 142,089; May 3; v. 286; p. 189.

Synthetic tannin. J. H. Yocum. No. 143,230; May 24; v. 286; p. 853.
Syrup. J. L. Klein. No. 142,659; v. 286; p. 630.
Syrup, Crystallized and liquid sweetening-. Sugola Company of America. No. 142,785; May 17; v. 286; p. 634.
Syrup for coughs, colds, catarrh, &c. P. E. Le Sieur. No. 143,071; May 24; v. 286; p. 848.
Syrup for flavoring. R. D. Donoho. No. 141,923; May 3; v. 286; p. 184.
Syrup, Table-. Bliss Syrup Refining Co. No. 142,453; May 17; v. 286; p. 624.
Syrup used in bronchitis, coughs, and colds. William S. Merrell Company. No. 142,030; May 3; v. 286; p. 187.
Syrups. A. E. Staley Manufacturing Company. No. 142,777; May 17; v. 286; p. 634.
Syrups and pastes, Food. Sucoco Company. No. 142,784; v. 286; p. 634.
Syrups used in making non-alcoholic maltless soda-fountain beverages. H. B. Hunter Co. No. 142,279; May 10; v. 286; p. 404.
Tablets for local vaginal and uterine antisepsis. William S. Merrell Company. No. 142,036; May 3; v. 286; p. 187.
Tablets, Laxative. Stonewall Medicine Company. No. 142,149; May 3; v. 286; p. 191.
Tablets, Medicinal. M. Brody. No. 141,879; May 3; v. 286; p. 183.
Tablets, Medicinal. Sharp & Dohme. No. 142,124; May 3; v. 286; p. 190.
Talking-boards. W. Fuld. No. 142,200; May 3; v. 286; p. 192.
Talking-machines and player-pianos. Cable-Nelson Piano Company. No. 143,295; May 31; v. 286; p. 1047.
Tanks. National Tank and Steel Company. No. 143,111; May 24; v. 286; p. 849.
Tanks, mounting-frames for the tanks, bucket-boxes. Davis Welding & Manufacturing Company. No. 142,254; May 10; v. 286; p. 403.
Tapes, Textile. Hudson Narrow Fabric Co. No. 142,577; v. 286; p. 628.
Tassels, fringes, &c. S. Rosenblum. No. 142,115; May 3; v. 286; p. 190.
Tea. American Javanese Products Co. No. 142,917; May 24; v. 286; p. 843.
Tea. Delano, Potter & Co. No. 142,496; May 17; v. 286; p. 626.
Tea. Endwar Company. No. 141,934; May 3; v. 286; p. 184.
Tea. D. Weiser. No. 142,831; May 17; v. 286; p. 636.
Teas and coffees. Blythe Tea Company. No. 141,873; May 3; v. 286; p. 182.
Teeth, Compound for use in filling. Dental Ceramic Corporation. No. 143,313; May 31; v. 286; p. 1048.
Teeth, Compound for use in filling. Dental Ceramic Corporation. No. 143,315; May 31; v. 286; p. 1048.
Textile fibers. S. S. Boyce. No. 143,321; May 31; v. 286; p. 1048.
Textile machines and equipment. C. G. Sargent's Sons Corporation. No. 142,122; May 3; v. 286; p. 190.
Textile piece goods. Jacob Miller & Sons Co. Nos. 142,045–8; May 3; v. 286; p. 188.
Thermometers. H. M. Stunz. No. 143,186; May 24; v. 286; p. 851.
Thermometers, pyrometers, &c. Cambridge Scientific Instrument Company. No. 143,296; May 31; v. 286; p. 1047.
Thermostat heat-regulators for stoves and furnaces, voltmeters, &c. Western Electric Company. No. 142,173; May 3; v. 286; p. 192.
Thermostats. Bishop & Babcock Company. No. 141,871; May 3; v. 286; p. 182.
Thread and yarn, Cotton and silk. Nonotuck Silk Company. No. 142,309; May 10; v. 286; p. 405.
Thread, Linen. Barbour Flax Spinning Company. No. 142,443; May 17; v. 286; p. 624.
Thread, Silk. Silk Yarn Trading Company. No. 142,129; May 3; v. 286; p. 190.
Threads and cottons, Silk and embroidery. Nonotuck Silk Company. No. 143,415; May 31; v. 286; p. 1051.
Threads and yarns. J. E. Barbour Company. Nos. 142,233–4; May 10; v. 286; p. 403.
Ticking. Sears, Roebuck and Co. No. 143,462; May 31; v. 286; p. 1053.
Tiles. Beaver Falls Art Tile Co. No. 141,866; May 3; v. 286; p. 182.
Tiles and bricks for furnaces, Refractory. Laclede-Christy Clay Products Company. No. 142,287; May 10; v. 286; p. 404.
Tire casings and tubes of rubber. Achilles Rubber and Tire Company. No. 141,824; May 3; v. 286; p. 181.
Tire casings, Pneumatic-. New Castle Rubber Co. No. 142,307; May 10; v. 286; p. 405.
Tire, &c., patches. H. R. Hoffeld. No. 143,368; May 31; v. 286; p. 1050.
Tire-rims to the wheels of automobiles, Clamps for securing. R. C. Loock. No. 143,389; May 31; v. 286; p. 1050.
Tire tubings and casings made of rubber. National Sales Company. No. 142,065; May 3; v. 286; p. 188.
Tire-valves, Dust caps for. P. A. Erbes. No. 142,516; May 17; v. 286; p. 626.
Tires and tubes, Pneumatic. Goodyear Tire & Rubber Company. No. 141,946; May 3; v. 286; p. 185.
Tires and tubes, Repair outfits for automobile. W. S. Johnson. No. 142,373; May 10; v. 286; p. 408.
Tires and tubes, Rubber. McGraw Tire & Rubber Company. No. 142,294; May 10; v. 286; p. 405.
Tires, Liquid preparation for healing punctures in pneumatic. Mundial Trading Co. Inc. No. 142,058; May 3; v. 286; p. 188.
Tires, Rubber. Madison Tire and Rubber Company. No. 142,297; May 10; v. 286; p. 405.
Tires, Rubber. Master Tire and Rubber Company. No. 142,615; May 17; v. 286; p. 629.
Tires, Rubber bicycle-. Mead Cycle Company. No. 142,020; May 3; v. 286; p. 187.
Tires, Rubber vehicle-. G & J Tire Company. No. 142,394; May 10; v. 286; p. 411.
Tires, Rubber vehicle-. Hood Rubber Company. No. 143,248; May 24; v. 286; p. 856.
Tires, Rubber vehicle-. United States Tire Company. No. 143,526; May 31; v. 286; p. 1056.
Tires, tubes, casings, &c. Falls Rubber Company. No. 142,262; May 10; v. 286; p. 404.
Tissue, paper, leather, pasteboard, and cloth, Machines for working on. Societe des Moteurs Gnome et Rhone. No. 143,176; May 24; v. 286; p. 851.
Tobacco. American Tobacco Company. No. 142,424–8; May 17; v. 286; p. 623–4.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 142,670; May 17; v. 286; p. 631.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 142,676; May 17; v. 286; p. 631.
Tobacco and cigarettes. Piedmont Tobacco Co. No. 142,892; May 17; v. 286; p. 641.
Tobacco, Leaf-. Henry Bohme & Sons, Inc. No. 142,563; May 17; v. 286; p. 628.
Tobacco, Smoking-. Ardath Tobacco Company. No. 142,432; May 17; v. 286; p. 624.
Tobacco, Smoking-. Gunn & Barrick Tobacco Co. No. 142,552; May 17; v. 286; p. 627.
Tobacco, Smoking and chewing. Christian Pefer Tobacco Co. Nos. 142,472–3; May 17; v. 286; p. 625.
Toilet and medicinal preparations. J. H. Moore. No. 142,623; May 17; v. 286; p. 629.
Toilet articles. L. Aubert & Cia. No. 142,355; May 10; v. 286; p. 407.
Toilet preparations. Cutex Corporation. No. 142,973; May 24; v. 286; p. 845.
Toilet preparations. Estasi Perfumery Co. No. 142,998; May 24; v. 286; p. 845.
Toilet preparations. K. Hochrack. No. 143,044; May 24; v. 286; p. 847.
Toilet preparations. Ideal Laboratories Company. Nos. 141,975–6; May 3; v. 286; p. 185.
Toilet preparations. J. A. Migel, Inc. No. 142,885; May 17, v. 286; p. 640.
Toilet preparations. V. Mosley. No. 143,521; May 31; v. 286; p. 1055.
Toilet preparations. Paris Toilet Company. No. 143,130; May 24; v. 286; p. 850.
Toilet preparations. S. C. Philippino. No. 143,136; May 24; v. 286; p. 850.
Toilet preparations. Radior Co. Ltd. of London. No. 143,145; May 24; v. 286; p. 850.
Toilet preparations. Rimané, Incorporated. No. 143,149; May 24; v. 286; p. 850.
Toilet preparations. P. J. Schumacher Co. No. 143,163; May 24; v. 286; p. 851.
Toilet preparations. L. Singer. No. 142,132; May 3; v. 286; p. 190.
Toilet preparations. Talcum Puff Co. No. 143,191; May 24; v. 286; p. 852.
Toilet preparations. Mme. C. J. Walker Mfg. Co. No. 143,212; May 24; v. 286; p. 852.
Toilet water and powder, almond-meal, &c. B. Altman & Co. No. 141,832; May 3; v. 286; p. 181.
Toilet water, pomade, hair-tonic, &c. United Barber Service Co. No. 143,497; May 31; v. 286; p. 1054.
Tonic and laxative. Scranton Distributing and Manufacturing Company. No. 143,164; May 24; v. 286; p. 851.
Tonic, Beef, iron, and wine. J. C. Maroney. No. 143,396; May 31; v. 286; p. 1050.
Tonic, Female-. William S. Merrell Company. No. 142,025; May 3; v. 286; p. 187.
Tonic, General. McGuire Medicine Co. No. 142,295; May 10; v. 286; p. 405.
Tonic, Hydrastis and iron compound. William S. Merrell Company. No. 142,023; May 3; v. 286; p. 187.
Tonic, Laxative. McGuire Medcine Co. No. 142,296; May 10; v. 286; p. 405.
Tonic, Laxative. C. G. Watson. No. 143,219; May 24; v. 286; p. 852.
Tonic, Liquid. J. F. Martin. No. 143,079; May 24; v. 286; p. 848.
Tonic, salve, and cough-syrup. Ferraline Medicine Company. No. 142,264; May 10; v. 286; p. 404.
Tool and machinery for working metal. Tool & Auto Products Company. No. 143,198; May 24; v. 286; p. 852.
Tools and machinery. Danielson Tool Company. No. 142,252; May 10; v. 286; p. 403.
Tools, Mechanics'. Harrold Tool & Forge Co. No. 141,957; May 3; v. 286; p. 185.
Tools of the plier type, Combination. Utilitool Company. No. 142,812; May 17; v. 286; p. 635.
Tooth-powder. R. J. Strasenburgh Company. No. 143,182; May 24; v. 286; p. 851.

Toy coaster-wagons. N. A. Archibald. No. 143,320; May 31; v. 286; v. 1048.
Toy pop-guns and water-pistols. Daisy Manufacturing Company. No. 142,492; May 17; v. 286; p. 626.
Toy vehicles. Novelty Products Company. No. 142,645; May 17; v. 286; p. 630.
Toys. Whit Manufacturing Company. No. 143,513; May 31; v. 286; p. 1054.
Toys, Mechanical. J. A. Chappuis. No. 141,890; May 3; v. 286; p. 183.
Tracing fabrics. Rexim Co. No. 142,108; May 3; v. 286; p. 190.
Tractors. Shaw-Enochs Tractor Company. No. 142,759; May 17; v. 286; p. 633.
Tractors and tilling implements and parts thereof. S. L. Allen & Co. No. 141,830; May 3; v. 286; p. 181.
Tractors, Farm-. Beltrail Tractor Company. No. 142,858; May 17; v. 286; p. 637.
Transmission-towers, steel forms, &c., Metallic. Blaw-Knox Company. Nos. 142,241–2; May 10; v. 286; p. 403.
Transmissions, Change-speed. Cotta Transmission Company. No. 142,971; May 24; v. 286; p. 845.
Travelers, Ring-. National Ring Traveler Co. No. 142,063; May 3; v. 286; p. 188.
Travelers, Ring-. National Ring Traveler Company. No. 143,110; May 24; v. 286; p. 849.
Trays and pans, Metal. Vitreous Enameling Company. No. 142,903; May 17; v. 286; p. 642.
Trousers, Men's and young men's. B. Haas & Sons. No. 142,205; May 3; v. 286; p. 192.
Trousers, suits, and overcoats for men and boys. Samuel S. Simon Company. No. 143,524; May 31; v. 286; p. 1056.
Truck-bodies, Simplex Manufacturing Company. No. 143,472; May 31; v. 286; p. 1053.
Trunks. Bloomfield Trunk Co. No. 142,454; May 17; v. 286; p. 624.
Trunks. Orenstein Trunk Company. No. 142,684; May 17; v. 286; p. 631.
Trunks. C. A. Taylor Trunk Works. No. 143,194; May 24; v. 286; p. 852.
Trusses, Hernial. W. H. Prewit. No. 142,714; May 17; v. 286; p. 632.
Twines. Meyer & Rasmussen. No. 143,090; May 24; v. 286; p. 848.
Typewriter-ribbons. R. G. Landis. No. 142,377; May 10; v. 286; p. 409.
Typewriter-ribbons and carbon-paper. G. F. Yancey. Nos. 142,184–5; May 3; v. 286; p. 192.
Typewriting-machines and parts thereof. Royal Typewriter Company. No. 142,117; May 3; v. 286; p. 190.
Umbrellas. Acme Merchandise Corporation. No. 142,402; May 17; v. 286; p. 623.
Undershirts and union-suits. Robert Reis & Co. No. 142,323; May 10; v. 286; p. 405.
Undershirts, union-suits, drawers, &c. Oppenheim, Oberndorf and Company. Nos. 142,078–9; May 3; v. 286; p. 189.
Underwaists. Schreiber-Hoban Company. No. 142,750; May 17; v. 286; p. 633.
Underwaists, Children's. S. J. Fishel. No. 143,335; May 31; v. 286; p. 1049.
Underwear. J. F. Byrne. No. 142,861; May 17; v. 286; p. 638.
Underwear for men, women, and children. Topkis Bros. Co. No. 142,795; May 17; v. 286; p. 634.
Underwear, men's athletic. Oppenheim, Oberndorf & Co. No. 142,683; May 17; v. 286; p. 631.
Underwear, Women's. J. Baach Co. No. 143,281; May 31; v. 286; p. 1047.
Valve for-internal-combustion engines. Self-Seating Valve Company. No. 142,756; May 17; v. 286; p. 633.
Valves and cocks and metal pipe-fittings. D. T. Williams Valve Company. No. 142,907; May 17; v. 286; p. 643.
Valves for internal-combustion engines. J. A. Drake and Sons. No. 143,318; May 31; v. 286; p. 1048.
Varnish. Continental Varnish Company. No. 142,479; May 17; v. 286; p. 625.
Varnish and paint remover. M. Cantan. No. 142,463; May 17; v. 286; p. 625.
Varnishes and lacquers. Deutsche Conservier ungsgesellschaft mit beschrünkter Haftung. No. 142,255; May 10; v. 286; p. 404.
Varnishes and paint enamels. Continental Varnish Company. No. 142,478; May 17; v. 286; p. 625.
Vehicle-bodies and parts thereof. Field Body Corporation. No. 143,000; May 24; v. 286; p. 846.
Vehicles for children, Foot-propelled land-. Arden-Bennett Corporation. No. 142,434; May 17; v. 286; p. 624.
Vehicles, Juvenile coasting-. Westfield Manufacturing Company. No. 142,832; May 17; v. 286; p. 636.
Vehicles, Motor-. Oneida Motor Truck Co. No. 142,682; May 17; v. 286; p. 631.
Vehicles other than bicycles, Wheeled. Samson Tractor Company. No. 143,160; May 24; v. 286; p. 851.
Vehicles, Self-propelled. American Motor Truck Company. No. 141,838; May 3; v. 286; p. 181.
Vellings, nettings, &c., in the piece. Marks, Ring & Dubin. No. 142,300; May 10; v. 286; p. 405.
Velocipedes. Atkinson Mill & Manufacturing Company. No. 141,850; May 3; v. 286; p. 182.
Velvet and velveteen cloth piece goods. W. A. Hedeman. No. 141,959; May 3; v. 286; p. 185.
Velvet and velveteen cloths in the piece. W. A. Hedeman. No. 142,562; May 17; v. 286; p. 628.
Vinegar. S. M. Starkey. No. 143,181; May 24; v. 286; p. 851.
Vinegar, Cider. Ozark Cider & Vinegar Company. No. 142,889; May 17; v. 286; p. 640.
Wagons. Thornhill Wagon Co. No. 142,155; May 3; v. 286; p. 191.
Wall-board and building-paper. Beaver Company. No. 142,931; May 24; v. 286; p. 843.
Wall-board and roofing. C. A. Nash & Son. No. 142,060; May 3; v. 286; p. 188.
Wall-board and roofing in rolls and ready cut for application. C. A. Nash & Son. No. 143,410; May 31; v. 286; p. 1051.
Washers and electric clothes-irons, Electric clothes-. Good Housekeeping Electric Shoppe. No. 142,545; May 17; v. 286; p. 627.
Washing and ironing machines, Laundry. Easiest Way Manufacturing Company. No. 142,199; May 3; v. 286; p. 192.
Washing machine, Laundry-. W. Remmert. No. 142,726; May 17; v. 286; p. 632.
Washing machine, Laundry-. Twin Washer Manufacturing Company. No. 142,800; May 17; v. 286; p. 635.
Washing machines, Ironing-boards, &c., Laundry-. F. H. Taylor Company. No. 142,789; May 17; v. 286; p. 634.
Washing machines, Laundry-. Folsom-Miller Company. No. 142,532; May 17; v. 286; p. 627.
Washing machines, wringers, and parts thereof, Laundry-. Win-Her Washer Company. No. 142,845; May 17; v. 286; p. 636.
Washing-tablets. Easy Wash Laundry Tablet Co. No. 142,513; May 17; v. 286; p. 626.
Watch-springs. Sandvikens Jernverks Aktiebolag. No. 142,326; May 10; v. 286; p. 406.
Watches and clocks. Geneva Watch Company. No. 143,032; May 24; v. 286; p. 846.
Watches, clocks, chronometers, &c. Perla Watch Co. Straub & Co. No. 143,428; May 31; v. 286; p. 1051.
Watches, watchcases, watch dials and movements. Ed Kummer Limited. No. 143,382; May 31; v. 286; p 1050.
Water bags and bags for ice-packs, Hot and cold. R. J. Bowell. No. 142,455; May 17; v. 286; p. 624.
Water-circulating systems, Leak-curing compound for. Malcomb & Malcomb. No. 143,393; May 31; v. 286; p. 1050.
Water-heaters, Thermostatic controllers for. B. Ryan. No. 143,155; May 24; v. 286; p. 850.
Waters, Mineral. Rubinat. No. 143,150; May 24; v. 286; p. 850.
Waterproof and fireproof fabrics, table-mats, &c. Philip Carey Manufacturing Company. No. 143,429; May 31; v. 286; p. 1051.
Waterproof cotton piece goods. Textile Service Co. No. 143,488; May 31; v. 286; p. 1053.
Waterproof dressing. National Weather-Proof Paint Co. No. 142,382; May 10; v. 286; p. 409.
Waterproof enamel paint for woodwork and metal. D. B. Crockett. No. 142,484; May 17; v. 286; p. 625.
Waterproof oiled piece goods. B. Reis. No. 142,104; May 3; v. 286; p. 190.
Waterproof machine-belting made of leather. Druid Oak Belting Company. No. 143,319; May 31; v. 286; p. 1048.
Webbings, Elastic. Russell Manufacturing Company. No. 143,453; May 31; v. 283; p. 1052.
Webbings and ladies' dress-belting, Elastic. Russell Manufacturing Company. Nos. 143,451–2; May 31; v. 286; p. 1052.
Webbings, garters, hose-supporters and suspenders, Elastic. Russell Manufacturing Company. No. 143,447; May 31; v. 286; p. 1052.
Webbings, ladies' dress-belting, garters, &c., Elastic. Russell Manufacturing Company. No. 143,446; May 31; v. 286; p. 1052.
Webbings, ladies' dress-belting, garters, &c., Elastic. Russell Manufacturing Company. No. 143,448; May 31; v. 286; p. 1052.
Webs. Russell Manufacturing Company. Nos. 143,151–2; May 24; v. 286; p. 850.
Welding sheet-aluminum, Flux for. Davis-Bournonville Company. No. 142,977; May 24; v. 286; p. 845.
Wheels, chassis, chassis forgings and castings. American Steel Foundries. No. 143,235; May 24; v. 286; p. 855.
Whisky. Sunny Brook Distillery Co. No. 142,338; May 10; v. 286; p. 406.
Window and door frames. Crowley Co. No. 143,322; May 31; v. 286; p. 1048.
Window-stands for displaying goods. J. Mansell-Phayre. No. 142,607; May 17; v. 286; p. 629.
Windshield-cleaners. B. I. Malouf Company. No. 142,604; May 17; v. 286; p. 629.
Wine. O'Brien & Co. No. 142,076; May 3; v. 286; p. 189.
Wire for electrical purposes, Rubber-covered. A. A. Wire Co. No. 143,226; May 24; v. 286; p. 853.
Wines, Non-alcoholic. W. H. Hommel. No. 143,370; May 31; v. 286; p. 1050.
Wire concrete-reinforcement, Woven-. American Steel and Wire Company of New Jersey. No. 141,843; May 3; v. 286; p. 181.
Wire fabric for supporting mattresses and cushions. Moore Company. No. 142,621; May 17; v. 286; p. 629.

Wire for electrical use, insulation materials, &c., Simplex Wire & Cable Company. No. 143,473; May 31; v. 286; p. 1053.
Wood-preserving compound. Georgia Vita Ligno Co. No. 143,205; May 24; v. 286; p. 852.
Woolen piece goods. Forstmann & Huffmann Co. No. 143,338; May 31; v. 286; p. 1049.
Wrappers. Mid West Box Company. No. 142,616; May 17; v. 286; p. 629.
Wraps, suits, dresses, coats, &c. L. Gold. No. 143,519; May 31; v. 286; p. 1055.
Writing fluid. Reynolds Bros. No. 143,148; May 24; v. 286; p. 850.
Writing fluids. W. A. Sheaffer Pen Co. No. 142,760; May 17; v. 286; p. 633.
Writing-tablets. E. L. Tichenor Co. No. 143,491; May 31; v. 286; p. 1053.
Yarn. Yarn Novelty Co. No. 143,229; May 24; v. 286; p. 853.
Yarn and threads. Finlayson, Bousfield & Co. No. 142,266; May 10; v. 286; p. 404.
Yarns. American Trading Company. No. 143,276; May 31; v. 286; p. 1047.
Yarns and threads. Bernhard Ulmann Co. No. 143,495; May 31; v. 286; p. 1054.
Yarns and threads. Cherokee Spinning Co. No. 142,957; May 24; v. 286; p. 844.
Yarns, Woolen and worsted. Berg Brothers. No. 142,933; May 24; v. 286; p. 843.

ALPHABETICAL LIST OF LABELS.

"'A' Condimentine." (For Cartons Containing "A" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) B. Heller & Co. No. 22,903; May 24; v. 286; p. 860.
"A Schilling Product." (For Prepared Coffee.) A. Schilling & Company. No. 22,926; May 24; v. 286; p. 860.
"A Schilling Product.' (For Prepared Cream of Tartar.) A Schilling & Company. No. 22,927; May 24; v. 286; p. 860.
"A Schilling Product." (For Flavoring Extracts—viz., Vanilla.) A. Schilling & Company. No. 22,928; May 24; v. 286; p. 860.
"A Schilling Product." (For Prepared Spices—viz., Pepper.) A. Schilling & Company. No. 22,929; May 24; v. 286; p. 861.
"A Schilling Product." (For Prepared Tea.) A. Schilling & Company. No. 22,930; May 24; v. 286; p. 861.
"A Schilling Product." (For Baking-Powder.) A Schilling & Company. No. 22,931; May 24; v. 286; p. 861.
"A B C." (For Bread.) Sanlwax Paper Co. No. 22,980; May 31; v. 286; p. 1058.
"A. G. S." (For Coffee.) American Grocers Company Inc. No. 22,944; May 31; v. 286; p. 1057.
"Alco Auto Polish." (For Automobile-Polish.) The Alco Co. No. 22,893; May 24; v. 286; p. 860.
"All in One Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,984; May 31; v. 286; p. 1058.
"Andee's Bed Bug and Roach Killer." (For Insecticides.) H. Andee. No. 22,945; May 31; v. 286; p. 1057.
"Animated Cartoon of Auto Alley." (For Non-Serial Motion-Picture Films.) Russell-Greiver-Russell. No. 22,878; May 3; v. 286; p. 197.
"Animated Cartoon of Gasoline Alley." (For Non-Serial Motion-Picture Films.) Russell-Greiver-Russell. No. 22,879; May 3; v. 286; p. 197.
"Atropadine." (For Preparation for the Treatment of Chronic Rheumatism, Lymphatic Enlargements, Burns, Lumbago, Frost-Bites, Sprains, Eczema, and Sciatica.) Haria Bros. No. 22,968; May 31; v. 286; p. 1057.
"Auerbach." (For Chocolate Candy.) D. Auerbach & Sons. No. 22,946; May 31; v. 286; p. 1057.
"Auerbach Animal Blocks." (For Sweet-Milk-Chocolate Blocks.) D. Auerbach & Sons. No. 22,894; May 24; v. 286; p. 860.
"'B' Condimentine." (For Cartons Containing "B" Condimentine, a Preparation in Use for Sausage and Sausage-Meat.) B. Heller & Co. No. 22,904; May 24; v. 286; p. 860.
"B. Heller & Co's Hog-Scald." (For Cans Containing a Preparation Used for Scalding and Cleaning Hogs.) B. Heller & Co. No. 22,963; May 31; v. 286; p. 1057.
"B. Heller & Co's Lard Purifier." (For Cartons Containing B. Heller & Co.'s Lard and Tallow Purifier.) B. Heller & Co. No. 22,966; May 31; v. 286; p. 1057.
"Baker's Cocoanut." (For Packaged Cocoanut.) Franklin Baker Company. No. 22,960; May 31; v. 286; p. 1057.
"Best Quality Sweet P's." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,882; May 3; v. 286; p. 197.
"Bleher Concentrated Liniment." (For a Liniment Known as Bleher Concentrated Liniment.) Bleher-Marmon Manufacturing Co. No. 22,890; May 17; v. 286; p. 644.
"Blue Raven Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,987; May 31; v. 286; p. 1058.
"Bon-Ton." (For Hair-Nets or Containers for Hair-Nets.) D. Tietelbaum. No. 22,889; May 10; v. 286; p. 412.
"Brag Bolted Meal." (For Cornmeal.) Dahnke-Walker Milling Co. No. 22,859; May 3; v. 286; p. 197.
"Bunch of Pods." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,883; May 3; v. 286; p. 197.
"Colonial." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 22,956; May 31; v. 286; p. 1057.
"Concentrated Sunripe Lemon Juice." (For Containers of Lemon-Juice or Wrappers Thereof.) W. G. Clark. No. 22,952; May 31; v. 286; p. 1057.
"Concentrated Sunripe Orange Juice." (For Containers of Orange-Juice or Wrappers Thereof.) W. G. Clark. No. 22,953; May 31; v. 286; p. 1057.
"Cural." (For Soap.) De Hoyos Bros. No. 22,860; May 3; v. 286; p. 197.
"Dardanella." (For Candy.) Loose-Wiles Biscuit Company. No. 22,912; May 24; v. 286; p. 860.
"Daylight in Every Drop." (For Paints.) Devoe & Reynolds Co. Inc. No. 22,862; May 3; v. 286; p. 197.
"Deltanut." (For Candy—Namely, Nut-Candy.) A. G. Abraham Company. No. 22,943; May 31; v. 286; p. 1057.
"Denebrink's Cuban Rose." (For Cigars.) B. T. Denebrink. No. 22,955; May 31; v. 286; p. 1057.
"Dish Kleen." (For Containers Containing Cleansing-Powder Preparation.) Lavo Company of America. No. 22,870; May 3; v. 286; p. 197.
"Dr. Root's Genuine Root Beer, Nature's Wonder Drink." (For Root-Beer.) National Brewing Company. No. 22,874; May 3; v. 286; p. 197.
"Elder Tree Extract." (For a Medicinal Preparation of Oil Extracted from the Elder-Tree.) M. Caruso. No. 22,858; May 3; v. 286; p. 197.
"Eureka." (For Metal-Polish.) Eureka Metal Polish Co. (Inc.) No. 22,864; May 3; v. 286; p. 197.
"Everybody's. (For Canned Apricots.) Richmond Chase Company. No. 22,924; May 24; v. 286; p. 860.
"Ferro-China Italia." (For Bottles Containing a Compound Medicinal Preparation.) W. D. Del-Wit. No. 22,861; May 3; v. 286; p. 197.
"Fluff-O-Light." (For a Wrapper Inclosing Candy.) Hoffman Candy Co. No. 22,908; May 24; v. 286; p. 860.
"Foresight." (For Boxes Containing Cigars.) Ennals & Company, Inc. No. 22,898; May 24; v. 286; p. 860.
"4 in 1 Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,985; May 31; v. 286; p. 1058.
"Freeze-Em." (For Cans and Bottles Containing Freeze-Em, a Preparation for Cleaning Butcher's Utensils.) B. Heller & Co. No. 22,907; May 24; v. 286; p. 860.
"Freeze-Em Pickle." (For Cartons Containing Freeze-Em Pickle, a Meat-Curing Preparation.) B. Heller & Co. No. 22,902; May 24; v. 286; p. 860.
"Garden Girl Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,872; May 3; v. 286; p. 197.
"Gardiner's Ice Cream De Luxe." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,974; May 31; v. 286; p. 1057.
"Gardiner's 'Purity' Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,975; May 31; v. 286; p. 1057.
"Ginsos Electrofied Chlorine." (For an Electrofied Chlorin for Medical, Surgical, and Hospital Purposes.) Ginso Chemical Company. No. 22,866; May 3; v. 286; p. 197.
"Goff's Atlantic City Salt Water Taffy." (For Salt-Water Taffy.) S. B. Goff & Sons Company. No. 22,867; May 3; v. 286; p. 197.
"Gold Medal Malt Extract." (For Cans Containing Malt Extract, Hops Extract, and Sugar.) H. D. Sterrick. No. 22,986; May 31; v. 286; p. 1058.
"Golden Cream." (For Creamery-Butter.) Ottawa Condensing Co. No. 22,917; May 24; v. 286; p. 860.
"Goodies." (For Candies, Namely Orange Fruit Tablets.) Star Candy Co. No. 22,880; May 3; v. 286; p. 197.
"Heck's Root Beer." (For Containers for Root-Beer.) J. M. Eckenrode. No. 22,863; May 3; v. 286; p. 197.
"Heller's Silver Shine." (For Cartons Containing Heller's Silver Shine, a Dry Powder Polish.) B. Heller & Co. No. 22,905; May 24; v. 286; p. 860.
"Ideal." (For Bread.) Sanlwax Paper Co. No. 22,981; May 31; v. 286; p. 1058.
"Jackson Lager Beer. (For Lager-Beer.) Jackson Brewing Company. No. 22,909; May 24; v. 286; p. 860.
"Japanese Crepe." (For Toilet Paper, Paper Napkins, Towels, and Table-Cloths.) For Howard Paper Company. No. 22,957; May 31; v. 286; p. 1057.

"Jersey Cream." (For Wax-Paper Bread-Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,913; May 24; v. 286; p. 860.
"Johnson's Southern Home Bread." (For Wrappers for Loaves of Bread.) F. Johnson. No. 22,910; May 24; v. 286; p. 860.
"King Brady's Red Oil." (For Bottles of Liniment.) K. Brady. No. 22,895; May 24; v. 286; p. 860.
"Koff-No-Mor." (For a Remedy for Coughs, Colds, &c.) H. C. Buchert. No. 22,950; May 31; v. 286; p. 1057.
"Kraft's Kold Kapsules." (For Packages Containing a Remedy for Colds and La Grippe.) H. E. Kraft. No. 22,970; May 31; v. 286; p. 1057.
"Lather Kream." (For Boxes Containing a Preparation Which is Used as a Shaving-Cream.) A. J. Krank. No. 22,911; May 24; v. 286; p. 860.
"Limones." (For Containers for Cane-Sugar.) J. I. Lezama. No. 22,871; May 3; v. 286; p. 197.
"Little Crow Pancake Flour." (For Prepared Flour.) Little Crow Milling Co. No. 22,972; May 31; v. 286; p. 1057.
"Liver-Sules." (For Bottles or Boxes Containing a Medicine for the Liver.) Liversule Co., The. No. 22,973; May 31; v. 286; p. 1057.
"McQuay-Norris Jiffy-Grip Piston Rings." (For Piston-Rings.) McQuay-Norris Mfg. Co. No. 22,888; May 10; v. 286; p. 412.
"Machinery Merchants." (For Machinery, Tools, and Parts Thereof.) Hill, Clark & Co. No. 22,869; May 3; v. 286; p. 197.
"Mad." (For Nail-Polish.) F. C. Irish. No. 22,969; May 31; v. 286; p. 1057.
"Muscadine Toddy." (For Containers for Beverages of a Non-Alcoholic Nature.) Cinco Syrups and Fountains Company. No. 22,896; May 24; v. 286; p. 860.
"Nafziger Certified Bread." (For Bread.) Nafziger Baking Company. No. 22,916; May 24; v. 286; p. 860.
"Natural No. 1 Garden Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,880; May 3; v. 286; p. 197.
"Natural No. 2 Green Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,885; May 3; v. 286; p. 197.
"Northern Ohio Woolware." (For Use Upon Wool Robes and Wool Shawls.) Beckman Company. No. 22,857; May 3; v. 286; p. 197.
"Northern Ohio Woolware." (For Wool Robes and Wool Shawls.) Beckman Company, The. No. 22,947; May 31; v. 286; p. 1057.
"Old Kentucky Bonded Blue Grass Rye." (For Tiny Bottles Containing Water, Few Grains of Rye, and Real Blue-Grass as an Advertising Novelty.) S. R. Cook. No. 22,897; May 24; v. 286; p. 860.
"Oppy's Special." (For Boxes Containing Cigars.) Oppy's Cigar Stores. No. 22,918; May 24; v. 286; p. 860.
"Oregon Cherries." (For Chocolate-Covered Cherries.) Vogan Candy Company. No. 22,991; May 31; v. 286; p 1058.
"Our Old Monastery Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,988; May 31; v. 286; p. 1058.
"Parker's Dandruff Mange Treatment." (For a Medicinal Compound for Treating Dandruff and Mange.) E. Parker. No. 22,919; May 24; v. 286; p. 860.
"Perfect Bakings Always with Perfect Day Flour." (For Flour.) Richland Milling Company. No. 22,923; May 24; v. 286; p. 860.
"Pollyanna Ready to Make Doll Clothes Sets." (For Doll-Clothes.) Reitman Mfg. Co. No. 22,921; May 24; v. 286; p. 860.
"Prairie Gold Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,914; May 24; v. 286; p. 860.
"Princess Hats." (For Ladies' and Children's Hats.) Gould Millinery Co. Inc. No. 22,900. May 24; v. 286; p. 860.
"Py-E-Ta." (For a Mixture for Filling Pies and Making other Desserts.) Wolverine Spice Compauy. No. 22,941; May 24; v. 286; p. 861.
"Pyrokuro." (For a Liquid Preparation Intended for the Treatment of Bleeding Gums.) Pyrokuro Company. No. 22, 920; May 24; v. 286; p. 860.
"Quality." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 22,958; May 31; v. 286; p. 1057.
"Ras Mangascia." (For Tonic for Hair and Scalp.) Pasquale Ruggiano. No. 22,877; May 3; v. 286; p. 197.
"Re Ju-Tonic." (For a Preparation in Powder Form for a Stimulating Tonic for the Blood and Nerves.) A Reich. No. 22,922; May 24; v. 286; p. 860.
"Re Manufactured Machine Tools." (For Remanufactured Machines, Tools, and Parts Thereof.) Hill, Clark & Co. No. 22,868; May 3; v. 286; p. 197.
"Red Seal Brand." (For Malt-Extract Syrup.) E. Goldschmid and L. Lehman. No. 22,961; May 31; v. 286; p. 1057.
"Referendum." (For Malt.) Ye Olden Times Company. No. 22,942; May 24; v. 286; p. 861.
"Renuzit." (For Containers Containing Furniture Cleaner and Dressing.) Peninsular Chemical Co. No. 22,979; May 31; v. 286; p. 1058.
"Rooster Brand." (For Coffee.) R. S. Linton. No. 22,971; May 31; v. 286; p. 1057.
"Sanger's Pro-Tek-Tubes Prophylactic." (For a Preventive for Venereal Diseases.) E. J. Moore Sons. No. 22,915; May 24; v. 286; p. 860.
"Sherwood Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,873; May 3; v. 286; p. 197.
"Smiths Prescription #711." (For a Medicinal Preparation for the Treatment of Bladder, Kidney, and Allied Troubles and Genital Affections.) Columbus Chemical Company. No. 22,954; May 31; v. 286; p. 1057.
"Snowflake Crepe." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 22,959; May 31; v. 286; p. 1057.
"Stanford." (For Dried Prunes.) O. A. Hanlan & Co No. 22,901; May 24; v. 286; p. 860.
"Stevens Brocade Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,934; May 24; v. 286; p. 861.
"Stevens Crochet Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,932; May 24; v. 286; p. 861.
"Stevens Durée Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,935; May 24; v. 286; p. 861.
"Stevens Satin Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,933; May 24; v. 286; p. 861.
"Strawberilade." (For a Spread of Strawberry Flavor for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 22,939; May 24; v. 286; p. 861.
"Sugared Pecans." (For Candy.) Norris, Inc. No. 22,875; May 3; v. 286; p. 197.
"Superior Violet Ink." (For Writing and Copying Ink.) P. Furman. No. 22,865; May 3; v. 286; p. 197.
"Sweetened Condensed Milk Jersey Brand." (For Cans and Containers in Which Such Product is Sold.) Little Falls Dairy Co. No. 22,892; May 17; v. 286; p. 644.
"Swiss Style Sweet Chocolate." (For Chocolate.) Van Camp Packing Company. No. 22,936; May 24; v. 286; p. 861.
"$10,000 for a Match." (For Cigars.) W. Saqui. No. 22,925; May 24; v. 286; p. 860.
"The Marvelous Eye Wash." (For Eye-Wash.) R. M. La Rock. No. 22,891; May 17; v. 286; p. 644.
"Tooth Pick." (For Tobacco.) Christian Peper Tobacco Co. No. 22,951; May 31; v. 286; p. 1057.
"2 in 1 Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,983; May 31; v. 286; p. 1058.
"U-No-Me." (For Cigars and Boxes Containing Same.) V. Moreau. No. 22,978; May 31; v. 286; p. 1058.
"Unkist Honey." (For Honey.) J. C. McCubbin. No. 22,976; May 31; v. 286; p. 1058.
"Vacuum-Brand Garlic Compound." (For Cans Containing Vacuum Brand Garlic Compound, a Seasoning Product.) B. Heller & Co. No. 22,906; May 24; v. 286; p. 860.
"Valminzo." (For Containers for an Ointment for the Treatment of Burns and Scalds, Piles, Sore Eyes, Eczema, Blood-Poison, Sore Mouth, Chronic or Old Sores, Ulcers, Insect-Bites, Inflammation or Irritation of Any Part of the Body.) M. F. Street & Co. No. 22,881; May 3; v. 286; p. 197.
"Van Camp's Almond Sweet Milk Chocolate." (For Almond Sweet-Milk Chocolate.) Van Camp Packing Company. No. 22,937; May 24; v. 286; p. 861.
"Venus Chocolates." (For Boxes Containing Chocolate Brazil Nuts.) Milwaukee Paper Box Company. No. 22,977; May 31; v. 286; p. 1058.
"Vi-Tone." (For Liquid Medicinal Compound for Nervous and Kindred Diseases.) Vi-Tone Products Co. No. 22,990; May 31; v. 286; p. 1058.
"Vialux." (For a Line of Street Lighting Units.) A. J. Sweet. No. 22,989; May 31; v. 286; p. 1058.
"Washington Brand." (For Crates Containing Vegetables.) Free Brothers Company. No. 22,899; May 24; v. 286; p. 860.
"Watkins All Rubber Patch Outfit." (For Cartons Containing a Rubber-Patch Outfit.) J. R. Watkins Company. No. 22,938; May 24; v. 286; p. 861.
"Wax for Dancing Floors Only." (Package Containing a Composition Specially Adapted for Floors.) J. P. Sleidle. No. 22,982; May 31; v. 286; p. 1058.
"Wellscraft." (For Decorated Candles.) C. B. Wells. No. 22,940; May 24; v. 286; p. 861.
"Westernaire." (For Canned Fruits, Vegetables, and Fish, Cane and Maple Syrup for Foods, Molasses, Strained Honey, Apple-Butter, Fruit Jams, Pork and Beans, Coffee, and Ready-Mixed Paints.) Bon I. Look Stores Company. No. 22,948; May 31; v. 286; p. 1057.
"Whip Ezey." (For a Preparation for Whipping Thin Cream, Evaporated Milk, White of Eggs, and Top Cream.) Oxydene Mfg. Corp. No. 22,876; May 3; v. 286; p. 197.
"Willer's English Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,884; May 3; v. 286; p. 197.

"Willer's English Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,887; May 3; v. 286; p. 197.

"Y. D. C." (For Yarn.) A. Hymes. No. 22,967; May 31; v. 286; p. 1057.

"You Must Be Satisfied." (For Dried Fruits, Hominy-Grits, Chili-Pods, Cocoa, Sugar, Tea, Spices, Cocoanut, Beans, Rice, Rolled Oats, Chocolate, Sago, Coffee, Tapioca, Barley, Sal-Soda, Sulfur, Gloss-Starch, and Blue Vitrol.) Bon I. Look Stores Company, The. No. 22,949; May 31; v. 286; p. 1057.

"Zanzibar-Carbon Brand Casing Yellow Mixture." (For Cans Containing a Preparation for Coloring the Outside of Liver-Sausage Casings.) B. Heller & Co. No. 22,964; May 31; v. 286; p. 1057.

"Zanzibar-Carbon Brand Casing Brown Mixture." (For a Preparation for Coloring the Outside of Smoked-Sausage Casings.) B. Heller & Co. No. 22,965; May 31; v. 286; p. 1057.

"Zem-Zem." (For Non-Alcoholic Beverages.) Gray-Juergens Co. No. 22,962; May 31; v. 286; p. 1057.

ALPHABETICAL LIST OF PRINTS.

"A Feast of Flavor." (For Advertising Purposes for Canned Sausages.) Acme Packing Co. No. 5,589; May 3; v. 286; p. 198.

"A Good Sandwich is a Meal Anywhere." (For Advertising Purposes for Canned Corn-Beef.) Acme Packing Co. No. 5,590; May 3; v. 286; p. 198.

"Beech-Nut." (For Advertising Purposes for Ginger-Ale.) Beech-Nut Packing Co. No. 5,592; May 3; v. 286; p. 198.

"Chocolate Creams." (For Coffee.) Western Grocer Co. No. 5,618; May 31; v. 286; p. 1058.

"Danger of Serious Illness." (For Advertising Purposes for Father John's Medicine.) Carleton & Hovey Company. No. 5,597; May 24; v. 286; p. 861.

"Dorothy's Fifth Birthday." (For Advertising Purposes for a Dessert Preparation.) The Genesee Pure Food Company. No. 5,599; May 24; v. 286; p. 861.

"Every One a Winner." (For Advertising Purposes for Hosiery.) Kaiser & Co. No. 5,616; May 31; v. 286; p. 1058.

"Frictionless Bearing Metal." (For Use in Reference to Bearing Metal.) Frictionless Metal Company. No. 5,593; May 3; v. 286; p. 198.

"Goodyear Belts Give Good Wear." (For Advertising Purposes for Rubber Belting.) Goodyear Tire & Rubber Co. No. 5,595; May 17; v. 286; p. 644.

"Haynes 1921 Closed Cars." (For Advertising Purposes for Automobiles.) Haynes Automobile Company, The. No. 5,611; May 31; v. 286; p. 1058.

"Here is Something New Virginies." (For Advertising Canned Meat-Patties.) Acme Packing Co. No. 5,604; May 31; v. 286; p. 1058.

"Here's the Perfection of Corned Beef." (For Advertising Canned Corned Beef.) Acme Packing Co. No. 5,605; May 31; v. 286; p. 1058.

"Heinz Oven Baked Beans, Foods That Taste Good—Foods That Do You Good." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. Heinz. No. 5,613; May 31; v. 286; p. 1058.

"Heinz Oven Baked Beans, That Heinz Baked Beans Are as Good as They Are." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. Heinz Co. No. 5,614; May 31; v. 286; p. 1058.

"Heinz Vinegars, Pints, Quarts, Half Gallons, Perfect Salad Dressing and Heinz Vinegars Go Together." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. Heinz Co. No. 5,612; May 31; v. 286; p. 1058.

"His Master's Choice." (For Advertising Purposes for Cigars.) G. Kelly. No. 5,617; May 31; v. 286; p. 1058.

"Hood Tires." (For Advertising Purposes for Motor-Vehicle Tires.) Hood Rubber Company. No. 5,615; May 31; v. 286; p. 1058.

"Making a Beauty Treatment." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,594; May 3; v. 286; p. 198.

"Ridewell Tires." (For Advertising Purposes for Automobile-Tires.) Robel and Bryant. No. 5,601; May 24; v. 286; p. 861.

"Sentry-Uniform Slide Easy Hair Curlers." (For Advertising Purposes for Hair-Curlers.) J. Goldsmith, Jr. No. 5,606; May 31; v. 286; p. 1058.

"Star Tailors." (For Advertising Purposes for Men's Tailored Suits.) A. B. Stephens. No. 5,602; May 24; v. 286; p. 861.

"The Grown-Ups." (For Advertising Purposes for a Dessert Preparation.) The Genesee Pure Food Company. No. 5,598; May 24; v. 286; p. 861.

"The Haynes Special Speedster." (For Advertising Purposes for Automobiles.) Haynes Automobile Co. No. 5,608; May 31; v. 286; p. 1058.

"The New Series Haynes Tourister." (For Advertising Purposes for Automobiles.) Haynes Automobile Co. No. 5,609; May 31; v. 286; p. 1058.

"The Sentry-Uniform Hair Bow Fasteners." (For Advertising Purposes for Hair-Bow Fasteners.) J. Goldsmith, Jr. No. 5,607; May 31; v. 286; p. 1058.

"Truth in Advertising." For Advertising Purposes for Automobiles.) Haynes Automobile Company, The. No. 5,610; May 31; v. 286; p. 1058.

"Vic—The Master Blade. Try it in Your Razor." (For Advertising Purposes for Safety-Razor Blades.) Vic Manufacturing Co. No. 5,603; May 24; v. 286; p. 861.

"Vogue 'End-O-Spire.'" (For Advertising Purposes for a Toilet Preparation Which Prevents Perspiration.) American Druggists Syndicate. No. 5,591; May 3; v. 286; p. 198.

"What The World Rests On." (For Advertising Purposes for Mattresses, Pillows, Bed-Springs.) J. Osiason. No. 5,600; May 24; v. 286; p. 861.

"Your Favorite Tire." (For Advertising Purposes for Tires.) Amalgamated Tire Stores Corporation. No. 5,596; May 24; v. 286; p. 861.

DISCLAIMERS.

Anti-skid chains to vehicle-wheels. Means for securing. W. H. Krug. No. 1,330,876; date of patent Feb. 7, 1920; disclaimer filed May 16, 1921; v. 286; p. 646.

Lamp. W. H. Wood. No. 1,235,275; date of patent July 31, 1917; disclaimer filed Apr. 30, 1921; v. 286; p. 205.

Liquid-elevating apparatus. F. V. Willis. No. 1,345,725; date of patent July 6, 1920; disclaimer filed Apr. 25, 1921; v. 286; p. 1.

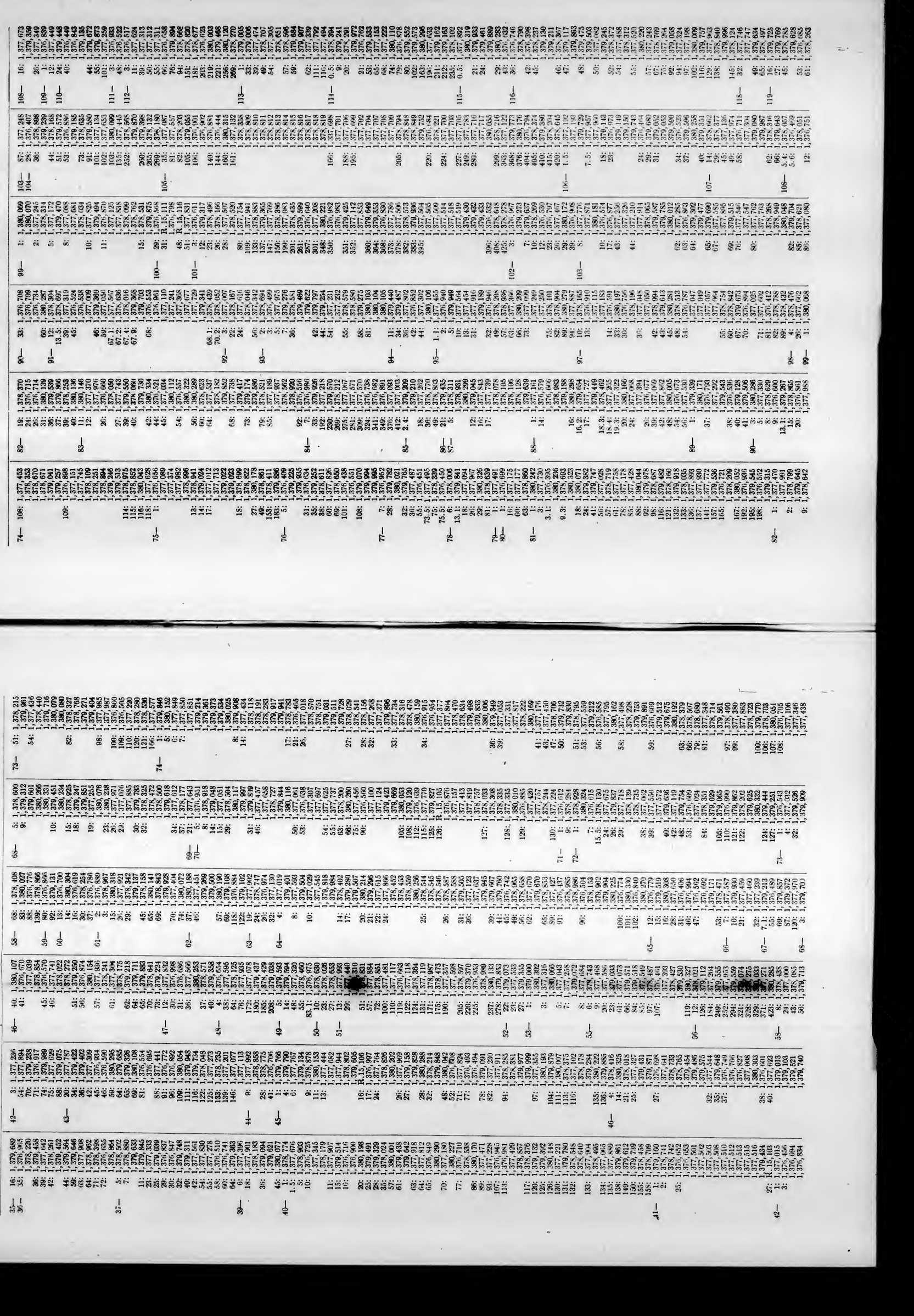
Telephone system. W. L. Campbell. No. 1,267,743; date of patent May 28, 1918; disclaimer filed Apr. 18, 1921; v. 286; p. 1.

CLASSIFICATION OF PATENTS

MAY, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 3: 1,378,390
15: 1,378,488
20: 1,377,295
32: 1,377,263
1,377,337
50: 1,378,759
56: 1,378,550
2— 9: 1,377,338
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OFFICIAL GAZETTE

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VOLUME 287

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1921

ERRATA.

1,381,055, page 141, first claim, line 5, for the word "entering" read *centering.*

1,382,845, page 494, first claim, after the last word insert the word *oil.*

1,382,443, page 514, in heading, assignment, State of incorporation, for "Massachusetts" read *Maine.*

1,382,604, page 544, in heading, assignment, after the word assignor insert the words *of one-third.*

1,383,008, page 675, in heading, assignment, name of assignee, for "A. Schroeder's Son, Incorporated" read *A. Schrader's Son, Incorporated.*

VOL. 287.

ADDING MACHINE YARN IN ROLLS

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JUNE, 1921.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*).]

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Use not established by use of word in conversation or written order, must be by affixing mark to goods, * Berghoff Brewing Ass'n *v.* Popel-Giller Co., Inc	405

DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

JUNE, 1921.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*).]

ACQUISITION.
See Trade-Marks, 1.

ASSIGNEES.
See Interference, 4.

CERTIORARI.
See Costs.

CLAIMS.
See Priority of Invention.

CLASS OF MERCHANDISE.
See Trade-Marks, 1.

CONCEPTION OF INVENTION.
See Interference, 1, 3.

CONCURRENT DECISIONS OF TRIBUNALS OF THE PATENT OFFICE.
See Interference, 1.

1. PRIORITY—QUESTION OF FACT.
Decision of the Commissioner of Patents, not being clearly wrong and the case turning upon a question of fact, on which all tribunals of the Patent Office concurred, affirmed. [* Wasserfallen v. Strifler, 408.

2. SAME—SAME.
Decision of the Commissioner of Patents, not being clearly wrong and the case turning upon a question of fact, on which all tribunals of the Patent Office concurred, affirmed.
[* Angiada v. Moyer, Carroll, and Bryant. Bryant v. Carroll, Angiada, and Moyer, 594.

3. SAME—SAME.
Decision of the Commissioner of Patents, not being clearly wrong and the case turning upon a question of fact, on which all tribunals of the Patent Office concurred, affirmed.
[* Valerius and Larsen v. Pfouts, 594.

CONFUSION OF THE PUBLIC.
See Trade-Marks, 3.

COSTS.

UNNECESSARY PARTS OF RECORD CARRIED UP FOR REVIEW.
Where the parts of a record sent to the court of appeals by the Patent Office in an interference proceeding in response to a writ of certiorari sued out by appellee have no bearing on the issues presented, all costs on the writ will be taxed against appellee.
[* Solomon v. Rousso. Same v. Same, 196.

COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.
See Costs.

DECISIONS OF THE COMMISSIONER OF PATENTS.
See Concurrent Decisions of Tribunals of the Patent Office.

DELAY IN FILING APPLICATIONS.
See Diligence, 1.

DESCRIPTIVE TERMS.
See Trade-Marks, 5.

DILIGENCE.
See Interference, 4.

1. ACTIVELY EXPERIMENTING.
An inventor of a complicated switch for an automatic telephone system was reasonably diligent when he was actively experimenting for less than eight months before filing.
[* Dunham v. Dyson and Erickson. Dyson v. Erickson and Dunham, 406.

2. PRIORITY.
Where the junior party, Hudson, made drawings of the autotruck-trailer in issue prior to July, 1916, and work was done on the invention by checking over these drawings during August, and on September 29, 1916, a trailer was ordered to be constructed and was promptly built in accordance with the drawings, he cannot be charged with lack of diligence.
[* Cadman v. Hudson, 407.

DRAWINGS.
See Diligence, 2.

ERRORS.
See Concurrent Decisions of Tribunals of the Patent Office.

ESTOPPEL.
See Interference, 4.

EVIDENCE.
See Interference, 1, 3, 4; Priority of Invention.

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FIRST AND ORIGINAL INVENTOR.
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FORMER DECISIONS CITED.
See Trade-Marks, 6.

GOODS OF THE SAME DESCRIPTIVE PROPERTIES.
See Trade-Marks, 3, 6.

INTERFERENCE.
See Costs.

1. CONCURRING DECISIONS OF OFFICE TRIBUNALS.
Where the Examiner of Interferences and the First Assistant Commissioner found that an applicant had failed to establish conception of the invention in issue prior to his filing date, while the Examiners-in-Chief found an earlier conception date, but in a later companion interference the Examiners-in-Chief held, on evidence substantially, if not exactly, the same, that such applicant had failed to establish conception prior to his filing date and refused on rehearing to recede from this position, it is concluded that the three tribunals are in accord upon the point that applicant is limited to the filing date for conception.
[* Dunham v. Dyson and Erickson. Dyson v. Erickson and Dunham, 406.

2. NOT SUSPENDED TO INVESTIGATE PUBLIC USE.
The sole purpose of an interference being to determine the question of priority, it will not be suspended after testimony has been taken for the purpose of considering public use or intervening rights.
[* Hayes v. Davison, 593.

3. EVIDENCE HELD TO SHOW SENIOR APPLICANT DERIVED INVENTION FROM JUNIOR.
Evidence that the junior applicant conceived the invention long prior to the date claimed by the senior applicant and that he exhibited it to a patent solicitor, who showed it to the senior applicant, and other circumstances *Held* to show that the senior applicant derived his invention from the junior applicant and was not an original inventor.
[* Browning v. Johnson, 785.

4. NEITHER APPLICANT NOR ASSIGNEE CAN CHARGE PARTY FROM WHOM THEY DERIVED THE INVENTION WITH LACHES.
Where the evidence in interference proceedings showed that the senior applicant was not an original inventor, but that he derived the invention from the junior applicant, neither the senior applicant nor his assignee can charge the junior applicant with lack of diligence or laches or estoppel by public use. [* Id.

INTERVENING RIGHTS.
See Interference, 2.

LACHES.
See Interference, 4.

MACHINE.
See Reduction to Practice, 1.

OPPOSITION TO REGISTRATION OF TRADE-MARKS.
See Trade-Marks, 4.

PRIORITY OF INVENTION.
See Concurrent Decisions of Tribunals of the Patent Office; Diligence, 2; Interference; Reduction to Practice, 1.

EVIDENCE.
Evidence considered and priority of invention awarded to Warnock on counts 1 and 2 and to Smith on count 3.
[* Smith v. Warnock. Warnock v. Smith, 196.

PROOF.
See Reduction to Practice, 2.

PUBLIC USE.
See Interference, 2, 4.

RECORD OF CASE.
See Costs.

REDUCTION TO PRACTICE.

1. DATE OF TEST CONTROLLING.
It is the date of the actual test of a machine which determines the date of actual reduction to practice. Therefore, although an inventor may have completed his machine prior to a reduction to practice by his rival, where he did not also subject it to successful test before such reduction to practice he is not entitled to prevail.
[* Smith v. Warnock. Warnock v. Smith, 195.

2. TOWEL-RACK—SIMPLE DEVICE.
Proof of the manufacture of a towel-rack *Held* sufficient to establish actual reduction to practice.
[* Solomon v. Rousso. Same v. Same, 196.

REGISTRATION OF TRADE-MARKS.
See Trade-Marks.

RIGHT TO EXTEND TRADE-MARKS.
See Trade-Marks, 7, 8.

SIMILARITY OF TRADE-MARKS.
See Trade-Marks, 2, 3.

TEST.
See Reduction to Practice, 1.

TESTIMONY.
See Interference, 2.

TRADE-MARK USE.
See Trade-Marks 1, 3, 7, 8.

TRADE-MARKS.

1. ACQUISITION—AFFIXING MARKS TO GOODS.
"It is settled law in this court that a trade-mark is not acquired by the invention or discovery of a word or symbol, or by advertisement. It only becomes a trade-mark by attaching or affixing it to certain articles of merchandise." Therefore the mere use of "Burg" as an abbreviation for the word "Burgmeister" in conversation or in written orders for goods is not sufficient to establish a trade-mark use.
[* Berghoff Brewing Ass'n v. Popel-Giller Co., Inc., 405.

2. CONFLICT—"BERGO" AND "BURGMEISTER."
There is no conflict between the marks "Bergo" and "Burgmeister." [* Id.

3. EXTENSION OF MARKS TO SIMILAR GOODS.
The owner of a mark may extend its use to goods of the same descriptive properties; but the right of extension applies only to the specific mark and not to a similar mark. The extension of the mark "Burg Brau" on beer to "Burg" on non-alcoholic beverages would not come within the rule, since the marks are radically different; nor would the use of the mark "Burg Brau" for lager-beer or its extension to non-alcoholic cereal beverages produce confusion with the word "Bergo" on non-alcoholic cereal beverages. [* Id.

4. "BEECHNUT"—PART OF NAME OF OPPOSER—NOT REGISTRABLE.
The word "Beechnut" as a trade-mark for cereal breakfast foods denied registration on the ground that it is a substantial part of the name of opposer—the Beech-Nut Packing Company—which was organized long prior to applicant's entry into the field.
[*Beechnut Cereal Company *v.* Beech-Nut Packing Company, 407.

5. DESCRIPTIVE MARKS—"EFFICIENCY."
A mark for hot-water bottles consisting of a shield bearing the word "Efficiency" in ordinary block type is descriptive. [* *In re* Reid Bros., 408.

6. DESCRIPTIVE PROPERTIES OF GOODS—GRAPE-JUICE AND BEER.
Grape-juice and beer are not goods of the same descriptive properties. (*Schoenhofen Brewing Co. v. John Sexton & Co.*, C. D., 1914, 152; 2000 O. G., 1117; 41 App. D. C., 510.)
[* John Sexton and Company *v.* Schoenhofen Company. Same *v.* Same, 593.

7. RIGHT TO EXTEND TO BEVERAGE.
Use of the mark "Edelweiss" on a compound from which root-beer is made cannot be used as a basis for establishing prior use on the beverage. [* Id.

8. EXTENSION OF MARK FROM ALCOHOLIC TO NON-ALCOHOLIC BEVERAGES.
The user of a trade-mark on beer should be protected in the extension of its use to other cereal beverages, particularly in view of the eighteenth amendment to the Constitution, which has compelled transition to the production of non-alcoholic beverages. [* Id.

TRIBUNALS OF THE PATENT OFFICE.

See Concurrent Decisions of Tribunals of the Patent Office; Interference, 1.

Patents Nos. 1,380,337 to 1,381,096.

THE
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Issue of June 7, 1921.

Patents	760	No. 1,380,337 to No. 1,381,096	inclusive.
Designs	71	No. 58,055 to No. 58,125	inclusive.
Trade-Marks	313	No. 143,528 to No. 143,840	inclusive.
Reissues	5	No. 15,118 to No. 15,122	inclusive.
Total	1149		

NOLAN ACT.

Reciprocity of French Laws.

(ORDER No. 2,664.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 9, 1921.

Notice is hereby given that the laws of France are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to its citizens.

THOMAS E. ROBERTSON,
Commissioner.

Reciprocity of Swiss Laws.

(ORDER No. 2,665.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 9, 1921.

Notice is hereby given that the laws of Switzerland are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to its citizens, subject to a limitation of the term under section 2 of the act as construed in *ex parte Hackett*, (285 O. G., 795.)

THOMAS E. ROBERTSON,
Commissioner.

Reciprocity of Australian Laws.

(ORDER No. 2,666.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 9, 1921.

Evidence has been submitted which satisfactorily establishes the fact that under Australian laws and regulations citizens of the United States are granted extensions of time as to priority rights and as to fulfilling other obligations upon a showing that the applicant or patentee was prevented from doing the required act or filing the required document by reason of circumstances arising from the state of war. In view thereof extensions of time under sections 1 and 2 of the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) will be granted to citizens of Australia when it is shown that applicant was prevented from filing an application or from paying a fee or taking a required action with respect to an application for patent by reason of circumstances arising from the state of war. This order is subject to modification in accordance with any further showing which may be made satisfactorily establishing an extension of the privileges now accorded by Australian laws, regulations, or practice in favor of citizens of the United States.

THOMAS E. ROBERTSON,
Commissioner.

Disclaimer.

1,293,033.—*James Cernohouz*, Chicago, Ill. PHOTOGRAPHIC-FILM CAMERA. Patent dated February 4, 1919. Disclaimer filed June 6, 1921, by the assignee, *Burke & James Inc.*

Enters this disclaimer:

"To that part of the claim in said patent which is in the following words, to wit:

"1. In a film-spool camera including a housing having a posterior opening and a removable cover for same, a pair of opposed pivot members disposed within the casing and adapted to engage opposite ends of a film-spool, and a manually operable member disposed within the camera housing and operable only upon opening the cover for the said posterior opening operatively associated with said pivot-members for simultaneously moving the same in opposite directions."

Access to Pending Applications.

No person except the applicant, the assignee whose assignment is of record, or the attorney of record will be permitted to have access to the file of any application, except as provided for under the interference rules, unless written authority from the applicant, assignee, or attorney, identifying the application to be inspected, is filed in the case to become a part of the record thereof, or upon the written order of the Commissioner, which will also become a part of the record of the case.

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APPLICATIONS UNDER EXAMINATION.

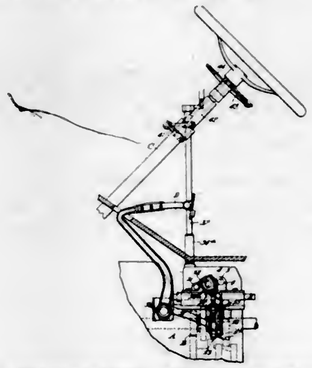
Condition at Close of Business May 28, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Jan. 21	Jan. 8	655
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Nov. 3	1,492
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 13	Oct. 8	692
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	July 16	Feb. 14	1,445
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 3	Nov. 1	664
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 20	Mar. 1	808
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 3	Feb. 8	1,354
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Feb. 26	Apr. 22	567
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 8	695
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 10	Feb. 17	1,024
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Feb. 23	Mar. 21	388
222	12. Machine Elements	Oct. 22	Mar. 3	958
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Aug. 2	Feb. 7	1,511
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 4	Apr. 11	844
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 1	Sept. 14	1,539
111	16. Radiant Energy; Telegraphy; Telephony	Aug. 6	Oct. 20	1,433
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec 2	Feb. 24	755
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Sept. 1	Dec. 9	1,469
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 18	Jan. 3	822
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Jan. 15	Jan. 27	1,075
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 20	Mar. 11	485
249	22. Aeronautics; Firearms; Ordnance Ammunition and Explosive Devices	Feb. 26	Apr. 2	367
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Sept. 20	Mar. 2	763
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Oct. 28	Mar. 2	865
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 6	Mar. 23	254
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 30	Jan. 4	769
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Jan. 5	Mar. 5	996
225	28. Internal-Combustion Engines	Nov. 2	Jan. 24	1,169
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Nov. 9	Mar. 14	633
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 10	Apr. 10	893
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 19	Oct. 11	1,912
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 1	Mar. 3	1,112
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 22	Feb. 10	724
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	Apr. 16	Apr. 12	270
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 15	Apr. 18	464
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Dec. 30	Jan. 7	1,452
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 11	Nov. 29	1,685
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 8	Jan. 21	945
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	July 13	Sept. 17	937
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Nov. 5	Feb. 7	1,704
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 29	Feb. 9	830
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Sept. 30	Oct. 19	1,913
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Aug. 5	Sept. 16	1,257
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 13	Apr. 5	404
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 20	Jan. 26	1,012
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 8	Feb. 2	723
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Oct. 4	Dec. 15	1,044
	Oldest new case, July 1; oldest amended, Sept. 14. Total number of applications awaiting action			46,472
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 20	Mar. 29	4,866
	Designs	Oct. 11	Dec. 10	2,116
	Labels and Prints	Mar. 2	May 12	467

PATENTS

GRANTED JUNE 7, 1921.

1,380,337. CHANGE-SPEED-GEAR-OPERATING MEANS FOR MOTOR-VEHICLES. WILLIAM H. ADSIT, Batavia, N. Y., assignor of one-half to Daniel W. Tomlinson, Jr., Batavia, N. Y. Filed Jan. 29, 1919. Serial No. 273,838. 22 Claims. (Cl. 74—58.)



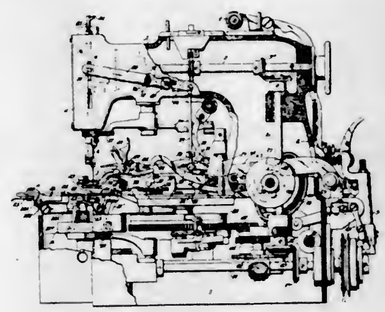
1. The combination with a transmission gearing, of a plurality of gear-shifting members, a companion actuating dog for each of said members normally out of actuating connection with said members, a selector adapted to be moved for selecting for operation one or another of said dogs, means for moving said dogs to a position for connection with said members and then for actuating a selected member after a dog is connected therewith, and means for operating said selector to place the selected dog into actuating connection with the companion gear-shifting member.

1,380,338. STEERING-COLUMN FOR AUTOMOTIVE APPARATUS. NICHOLAS W. AKIMOFF, Wynnewood, Pa., assignor to Vibration Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 19, 1920. Serial No. 418,036. 9 Claims. (Cl. 74—39.)



1. In a steering column for automotive apparatus having a steering post, the means for minimizing transmitted vibration comprising a member bearing against the steering post at the point where the antinode of the fundamental mode of vibration of the steering post occurs.

1,380,339. BUTTONHOLE CUTTING AND STITCHING MACHINE. EDWARD B. ALLEN, Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 20, 1920. Serial No. 367,297. 23 Claims. (Cl. 112—68.)



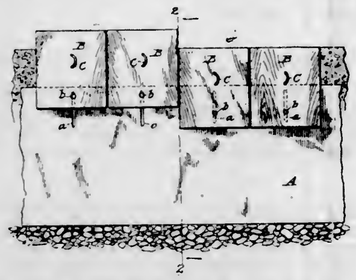
1. A buttonhole sewing machine having, in combination, stitch-forming mechanism including an upper depth-stitch needle and a lower curved slit-stitch needle, a work-holder, feeding mechanism for relatively moving the stitch-forming mechanism and work-holder to sew around a buttonhole, buttonhole cutting mechanism comprising a die-element having an elongated aperture and a punch-element adapted to enter said die-element to remove a strip of material extending from end to end of the buttonhole, and means for starting the stitch-forming mechanism after the buttonhole has been cut.

1,380,340. BUTTONHOLE-CUTTING MECHANISM. EDWARD B. ALLEN, Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 30, 1920. Serial No. 377,850. 11 Claims. (Cl. 112—68.)



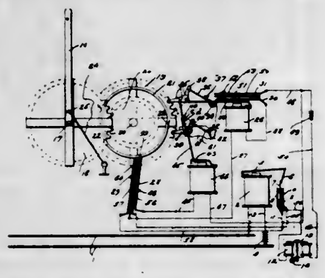
1. Buttonhole cutting mechanism for sewing machines comprising, a pivoted carrier-lever, a punch-element carried by said lever and having the form of a thin blade curved edgewise concentrically with the pivot of said lever, and a hollow die-element adapted to be entered by said punch-element in removing a narrow strip of material to form the buttonhole slit.

1,380,341. JOINT FOR CONCRETE PAVEMENTS. WALTER L. ASHMORE, Macon, Ga. Filed Oct. 16, 1920. Serial No. 417,282. 10 Claims. (Cl. 94—18.)



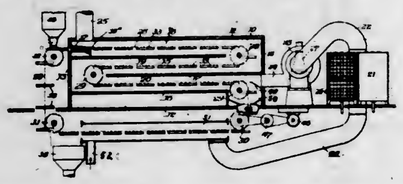
1. A joint for roadways and street pavements comprising a thin, comparatively long and wide supporting member adapted to be set on one edge upon a sub base, and a series of comparatively small compressible blocks mounted on and extending above the upper edge of said supporting member, said blocks being slidable vertically to adapt them to be raised and depressed when arranged in a vertical plane.

1,380,342. AUTOMATIC CROSSING-GATE. JOSEPH B. ATKINS, South Bend, Ind. Filed Jan. 30, 1918. Serial No. 214,508. 12 Claims. (Cl. 246—128.)



12. A gate closing mechanism comprising a gate, means for operating said gate and moving the same to a closed position in a step by step movement, electrical controlled means for actuating said last mentioned means, from a distant point, means engaging said gate for automatically swinging the same to an open position when released, and a secondary electrically operated means actuated from a distant point and coöperating with said step by step closing means for rendering said closing means inactive and permitting said gate to automatically swing to an open position.

1,380,343. DRIER. FRITZ BALZER, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Jan. 25, 1918. Serial No. 213,793. 3 Claims. (Cl. 34—12.)



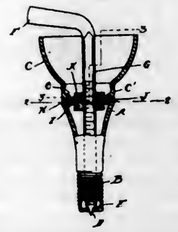
1. In a drier, the combination of a heated compartment having a plurality of horizontally disposed passageways therein, a cold air supply means, a conveyer for carrying materials to be dried movable through said passageways in said heated compartment for drying purposes and movable through said cold air supply means whereby the dried material may be cooled and the air thus heated supplied to the heated compartment.

1,380,344. POCKET-LIGHT. PRESTON R. BASSETT, Brooklyn, N. Y. Filed Oct. 9, 1919. Serial No. 329,437. 4 Claims. (Cl. 240—1.)



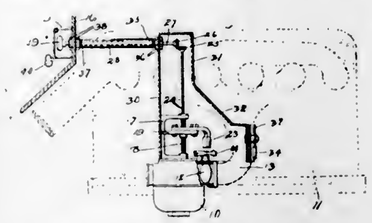
4. In a device of the character described the combination of a plano convex lens, a thin disk of self-luminous material on the plane surface thereof, a glass cemented on the plane surface over the self luminous material and a reflecting coating on the said glass.

1,380,345. PRIMING-CUP. CHARLES W. BECK, Detroit, Mich. Filed Dec. 29, 1917. Serial No. 209,395. 12 Claims. (Cl. 123—187.5.)



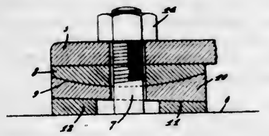
1. A priming cup comprising a main body portion, the interior walls of said portion being polygonal in shape, a valve seat, a valve, a threaded stem for adjusting said valve with reference to its seat, and an insert member inserted within the polygonal walls of said main body portion and having an opening through which the threaded stem extends, the engagement between the insert and the valve stem being arranged to permit the valve to automatically center upon its seat.

1,380,346. CARBURETER-LOCK. ROLAND P. BERNARDINI, Cranston, R. I. Filed June 17, 1920. Serial No. 389,616. 3 Claims. (Cl. 251—6.)



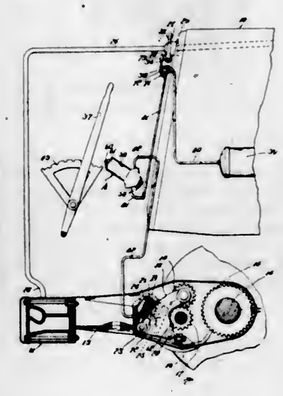
1. In a device of the character described, the combination with a carbureter having a shut-off valve to the intake manifold provided with an operating lever, of a screw-operated stop-member adapted to be moved to engage and lock said lever in closed position, and an inclosing casing adapted to be locked about said lever-locking mechanism.

1,380,347. DISTANCING DEVICE. GEORGE FRED BLUME, Philadelphia, Pa. Filed Jan. 13, 1921. Serial No. 436,967. 2 Claims. (Cl. 248—30.)



1. In combination with a foundation and engine base, a distancing device including a pair of plates, one of said plates having a concaved surface, the other plate having a convex surface positioned within the concaved surface, one of said plates having an inclined lower surface, a wedge member coöperating with the inclined surface for moving the plates vertically, and means for securing the plates and wedge against movement.

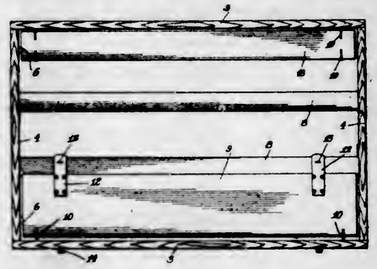
1,380,348. CONTROLLING MECHANISM FOR BOOSTER-MOTORS. RAY M. BROWN, Yonkers, N. Y., assignor to Howard L. Ingersoll, White Plains, N. Y. Filed Oct. 15, 1920. Serial No. 417,122. 22 Claims. (Cl. 105—48.)



22. The combination with a locomotive having a reverse lever and a throttle valve lever, of a booster motor for aiding the main driving means of the locomotive in starting the same and propelling it at low speed, a valve for controlling the supply of steam to the booster motor, a revoluble shaft for operating said valve provided with an operating lever arranged with respect to the main throttle lever of the locomotive so that the booster valve can be opened only when the main throttle of the locomotive is open, a fluid pressure actuated device for entraining the booster motor with the locomotive, a supply of pressure fluid, a pipe leading therefrom to the entraining device, two valves arranged in said pipe, one of which is adapted to be opened when the reverse lever is moved to an extreme forward position, and means for connecting the other of said valves to the lever which opens the booster steam valve so that the entrainment of the booster takes place just in advance of the supply of the same with steam.

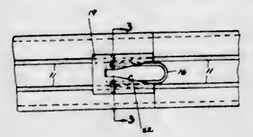
1,380,349. COLLAPSIBLE CRATE. FRANK P. BUSH, FRANCIS G. SERR, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 1, 1919. Serial No. 335,018. 3 Claims. (Cl. 217—15.)

1. In a collapsible crate, open at the ends, the combination of skeleton top and bottom frames, having vertically arranged side members with longitudinal top and bottom members respectively, adjacent the upper and lower portions of the same, respectively, and vertically arranged end members, extending beneath and above said longitudinal members of the top and bottom frames respectively, a rigid side member pivotally linked to a



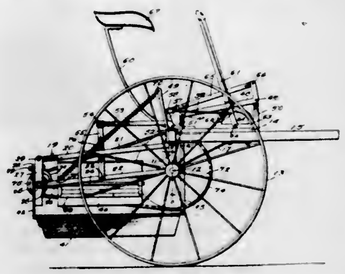
side member of the bottom frame, securing devices for securing the upper edge of said side member to the top frame when the crate is in open position, and an opposite side member comprising means pivoted to both the top and bottom frames and adapted to swing inwardly of the crate when the latter is collapsed.

1,380,350. VEHICLE-WHEEL RIM. FREDERICK H. CAMPBELL, Chicago, Ill., assignor of one-fourth to Clifton R. Hunn, Chicago, Ill. Filed May 8, 1920. Serial No. 379,749. 7 Claims. (Cl. 301—30.)



1. A vehicle wheel rim comprising a sectional annular member mountable on a vehicle wheel; a tongue provided on the end of one section adapted for engagement in a recess formed in the adjacent end of a coöperating section; and a resilient member provided with lugs for securing said tongue in said engagement, substantially as described.

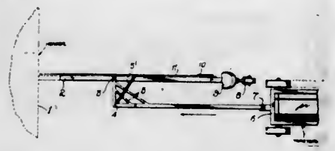
1,380,351. BOLL-WEEVIL-EXTERMINATING DEVICE. JOHN M. CAPE, San Marcos, Tex. Filed June 10, 1920. Serial No. 388,001. 7 Claims. (Cl. 43—142.)



6. In a machine for destroying insects or the like, a frame-work, wheels supporting the frame-work, a vertically adjustable transverse frame, vertically swinging supporting means pivotally connected with the transverse frame and frame-work and serving to raise and lower the

transverse frame without turning the same upon its longitudinal axis, means to move the vertically swinging supporting means, rotatable beaters carried by the transverse frame, means to drive the beaters, a pan beneath the beaters having its rear end connected with the transverse frame, and separate means arranged upon the frame-work and connected with the forward end of the pan to support and vertically adjust it.

1,380,352. HEADER-PUSHER FOR TRACTORS. STEENER JOHN CARLSON, White Butte, S. D. Filed Dec. 9, 1919. Serial No. 343,684. 4 Claims. (Cl. 213—67.)



1. The combination with a harvesting machine having a rearwardly extending beam and guiding means for the same, of an L-shaped hitch, pivotally secured to the beam adjacent the machine, and means to attach a tractor to the rear of the hitch.

1,380,353. METHOD FOR TREATING STORAGE-BATTERY SEPARATORS. CAMPBELL C. CARPENTER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 26, 1918. Serial No. 251,425. 4 Claims. (Cl. 204—29.)

1. The method of preparing separators for storage or shipment which consists of treating finished separators in sulfuric acid.

1,380,354. STORAGE-BATTERY SEPARATOR. CAMPBELL C. CARPENTER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed July 19, 1919. Serial No. 312,073. 3 Claims. (Cl. 204—29.)

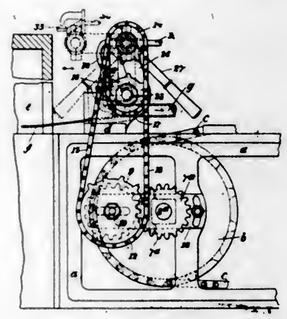
1. The method of preparing storage battery separators which consists in treating wood by a process of fermentation.

1,380,355. IMPLEMENT OR DEVICE FOR KILLING OR DISABLING INSECTS, FLIES, OR THE LIKE. ARTHUR W. CASH, Decatur, Ill., assignor to United States Wire Mat Company, Decatur, Ill., a Corporation of Illinois. Filed Dec. 3, 1917. Serial No. 205,086. 2 Claims. (Cl. 43—137.)



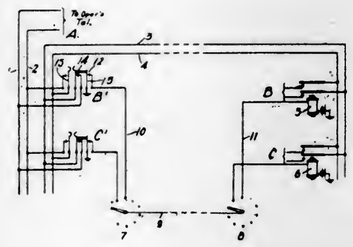
1. A device of the character described, including in combination a body portion, and a handle, said body portion being composed of flexible netting of substantially rectangular shape, having its side and top edges bound with a soft, flexible material and having its lower corner portions folded along lines converging to a point and slightly overlapping, said handle member being in the form of a looped wire to provide the gripping portion and having its end portions free and positioned between the body portion and the folded corner portions, the end portions of the handle extending along lines on which the lower corner portions are folded and then bent and extended to substantially the intermediate part of the body portion, and securing means for connecting the upper edges of the folded corner portions to the body portion so as to hold these edges against the body portion and to hold the free end portions of the handle member therein, said securing means passing through the binding and the body portion and a strip of flexible material positioned on the side of the body opposite the binding in which the ends of the securing means are clenched.

1,380,356. APPARATUS FOR THE MANUFACTURE OF WELDED TUBES. DOUGLAS WHIMSTER CHISHOLM, Woodhead, Garnkirk, Scotland. Filed Apr. 25, 1919. Serial No. 292,727. 15 Claims. (Cl. 205—3.)



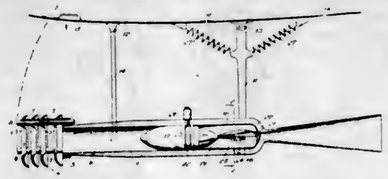
1. Apparatus for manufacturing butt welded tubes from heated metal strips having, in combination, a bell through which the heated strip is drawn and having a gap therein, a rotary member operating in said gap and co-acting with the belt to weld the tube, means for directing gas into the bell through said gap and upon the strip, and means for drawing the strip through the bell.

1,380,357. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,663. 3 Claims. (Cl. 179—51.)



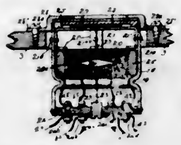
1. In a telephone system, a plurality of operators' positions, means at one of said positions for determining the selection of any one of the other positions, means operated to select the position determined by the first named means, synchronized means connecting the first and second named means for controlling the operation of the latter, and a common talking circuit completed by the operation of the second named means for interconnecting the first named position with said other position.

1,380,358. NON-RECOIL GUN. CHARLES J. COOKE, Washington, D. C. Filed Mar. 24, 1920. Serial No. 368,438. 7 Claims. (Cl. 89—40.)



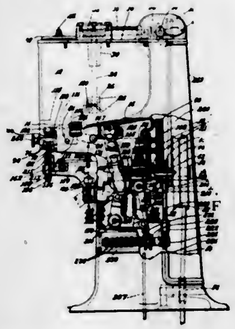
1. A non-recoil gun comprising in combination a gun body and a rearwardly diverging deflector in direct communication with the interior of said gun body.

1,380,359. FUEL-INDICATOR. LEONARD COOPER, Syracuse, N. Y., assignor of one-fourth to Theodore O. Hickok and one-fourth to Frank T. Miller, Syracuse, N. Y. Filed Apr. 16, 1920. Serial No. 374,446. 1 Claim. (Cl. 177—351.)



An indicator of the class described, including a hollow casing provided with an inturned annular rib, an annular coil supported by said rib, a dial mounted concentrically with and above said coil, said dial having a number of depending lugs which bear upon and hold the coil in place, a pointer pivotally mounted for sweeping said dial, a spindle supporting said pointer disposed concentrically with and in said coil and said dial, and an armature carried by said spindle and operated step-by-step by electric currents passing through different segments of said coil.

1,380,360. COATING-MACHINE. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 23, 1918. Serial No. 259,319. 57 Claims. (Cl. 91—49.)



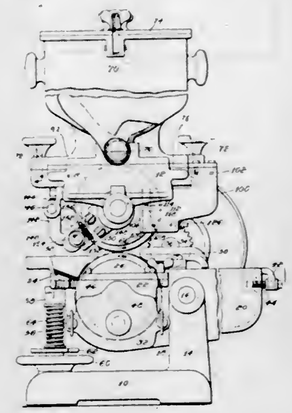
6. In a machine of the class described, a yieldable carrier, a work-supporting member rotatable upon the carrier and having a yieldable section, and an applying member coöperating with the work-supporting member.

26. In a machine of the class described, a frame, a tank for fluid integral therewith, a member situated beneath the tank for applying the fluid to the work, and a support for the member separable from the frame.

42. In a machine of the class described, means for applying fluid to the work and advancing said work in coöperation with the applying means, and means for indicating the extent of the work coated with the fluid.

55. In a machine of the class described, a fluid-applying roll, an arm pivoted adjacent thereto, a support upon the arm opposite the roll, and a cleaning roll rotatable on the support for contact with the applying surface.

1,380,361. COATING APPARATUS. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 8, 1918. Serial No. 261,684. 37 Claims. (Cl. 91—49.)

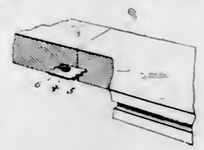


1. In a coating apparatus, an upper applying member, a receptacle pivoted between its extremities to move toward and from the upper applying member, and an applying member journaled in the receptacle beneath the upper applying member.

8. In a coating apparatus, an applying member, a receptacle arranged to supply fluid thereto, and an auxiliary receptacle contacting with the applying member.

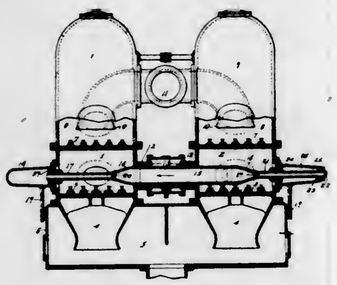
37. In a coating apparatus, a rotatable applying member for a coating substance, said member tending to produce strings of the coating substance, and a string-receiving member rotatable above the plane of the work in contact with and in the same direction as the applying member.

1,380,362. FASTENING MEANS FOR FLOORING AND THE LIKE. ROBERT M. CUNNINGHAM, Louisville, Ky. Filed Mar. 26, 1920. Serial No. 369,003. 2 Claims. (Cl. 85—11.)



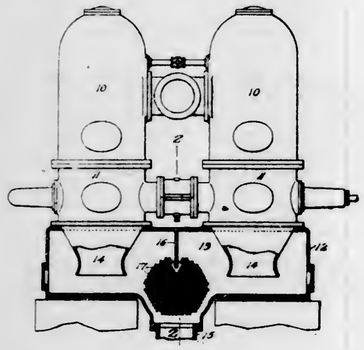
1. As a new article of manufacture, a fastener adapted to form a locking joint between abutting boards, comprising a plate-like member having teeth formed upon each of two of its oppositely disposed edges, and a stop tongue struck up out of the body at a point substantially midway between the toothed edges.

1,380,363. PUMP-PLUNGER. DAVID A. DECROW, Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Apr. 3, 1918. Serial No. 226,506. 5 Claims. (Cl. 103—63.)



1. A liquid pump having a cylinder, a hollow plunger closed to the cylinder, and a connection between the interior of the plunger and the outside of the cylinder whereby any leakage into the plunger is displaced therefrom by the reciprocation of the plunger.

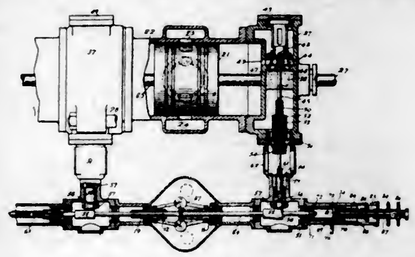
1,380,364. PUMP. DAVID A. DECROW, Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Apr. 3, 1918. Serial No. 226,507. 2 Claims. (Cl. 103—79.)



1. The combination with a pump and its suction chamber, of means for forming an air chamber in the suction chamber, and a condenser in said suction chamber with its condensing surface located in the path of the water flowing through said suction chamber.

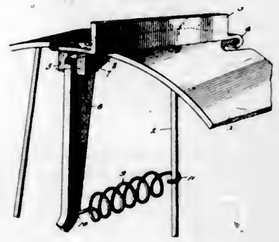
1,380,365. STEAM PUMPING-ENGINE. DAVID A. DECROW, Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Apr. 3, 1918. Serial No. 226,509. 10 Claims. (Cl. 121—125.)

1. In a combined engine and pump, a valve gear for controlling the steam supply of the engine, a centrifugal speed governor and valve control mechanism for varying the point of cut off, a connection between the centrifugal speed governor and valve control mechanism permitting the valve control mechanism to move independently of the speed governor, and a pressure governor controlled by the pressure of the fluid being pumped, connected to the valve control mechanism to vary the point of cut off independ-



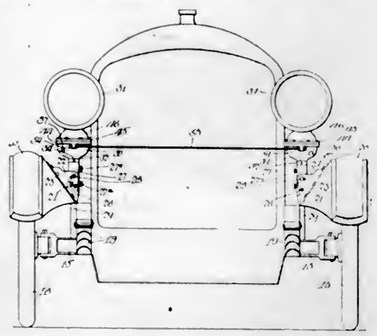
ently of the speed governor, and operable without lost motion regardless of the position of the valve control mechanism under movement by the speed governor.

1,380,366. TRACTOR-CLEAT. EDMURN L. DEMOREST, Columbus, Ohio, assignor to James Ellwood Jones, Switchback, W. Va. Filed Sept. 6, 1918. Serial No. 252,828. 5 Claims. (Cl. 301—44.)



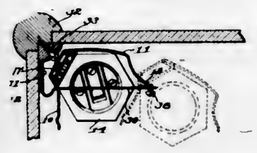
1. In a tractor wheel, a detachable cleat comprising a member capable of extending transversely across the rim of a wheel, said member having one end thereof terminated to grip one edge of the rim, a bell crank lever pivoted to the opposite end of said member in a position so that one arm of said lever will engage the inner surface of the rim, and spring means engaging the other arm of said lever and coöperative with said wheel to frictionally maintain said lever in cleat holding engagement with said rim.

1,380,367. DIRIGIBLE LIGHTING MECHANISM. OLIVER D. EASTMAN and WALTER M. GREGG, Muskegon, Mich. Filed Nov. 13, 1919. Serial No. 337,814. 15 Claims. (Cl. 240—62.)



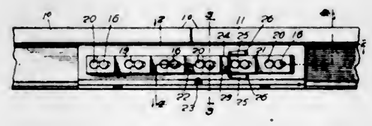
1. A device of the character described, including in combination, a pivoted finger, a longitudinally shiftable rod located transversely with respect to the finger, a bracket transversely disposed on and rigidly fixed to said rod, a vertically disposed post rotatably mounted on said bracket, means carried by the bracket to limit the rotary movement of said post, a coupling adjustably mounted on the post, and a trip lever horizontally secured to the coupling and having at one of its ends an extension extended at a right angle therefrom for loose contact with said finger.

1,380,368. SHOWCASE-REFLECTOR. LEONARD ERIKSON, Malden, Mass. Filed June 5, 1920. Serial No. 388,768. 5 Claims. (Cl. 240—6.)



1. The combination with a trough-shaped show-case reflector of a lamp socket of insulating material, a conduit for electrical conductors arranged between said reflector and socket, a saddle in said conduit, said saddle having its top portion spaced away from the base of said conduit, means for clamping said socket, saddle and conduit together, and means for securing said conduit to said reflector.

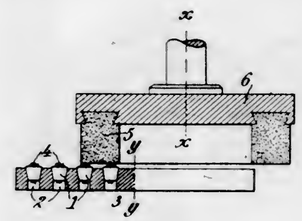
1,380,369. RAIL-JOINT. EDGAR CLARK FIELDS, Lyons, Ind. Filed Mar. 19, 1921. Serial No. 453,694. 1 Claim. (Cl. 238—252.)



The combination with proximate rail ends provided with spaced perforations, of a fish plate provided with outstanding lugs positioned and proportioned to be inserted through the perforations, a second fish plate provided with perforations properly spaced to pass over the lugs, a wedging member, means providing wedging action between the wedging member and the lugs as the wedge moves longitudinally, a lug carried by the wedging member, and an abutment carried by the fish plate so positioned relative to each other as to facilitate the insertion of a lever therebetween to exert stress upon the wedging member.

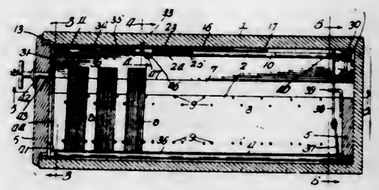
1,380,370. METHOD OF AND MEANS FOR MANUFACTURING CONICAL ROLLERS OF EXACT DIMENSIONS. BENGT WIKTOR FJELLMAN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed July 27, 1916. Serial No. 111,589. 9 Claims. (Cl. 51—278.)

1. The method of manufacturing conical rollers which consists in forming the rollers to be operated upon of a uniform angularity, then positioning the rollers by means of their conical surfaces with their axes parallel and their conical apices in a common plane, then simultaneously grinding the larger ends of a plurality of said rollers with a rotary grinder having a grinding surface



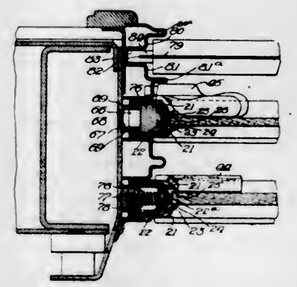
parallel to the apical plane of said rollers, thereby producing faces on the bases of the rollers of uniform distance from their apices.

1,380,371. CARD-SPREADING DEVICE. PAUL E. FLEMING, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 442,915. 16 Claims. (Cl. 45—2.)



9. The combination with a file cabinet having a drawer therein adapted to contain file cards, one behind the other and substantially upright, of a shoe in said cabinet above said cards, means operable from the exterior of said cabinet for bringing said shoe down against the cards, means actuated through said first mentioned means for moving said shoe while in contact with the cards backward over the same to spread them by bending their upper edges backward, in succession, and means for raising said shoe out of contact with the cards after the spreading operation and to return the shoe to its starting position above the cards.

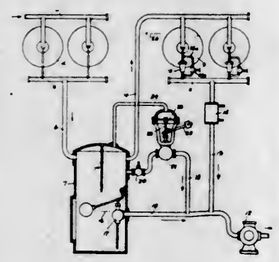
1,380,372. SASH CONSTRUCTION. GEORGE H. FORSYTH, Chicago, Ill. Filed Sept. 13, 1915. Serial No. 50,328. 9 Claims. (Cl. 189—76.)



1. In sash construction, the combination of a metal sash formed to provide a permanent retaining bead, a resilient glass support, and a pocket at that side of the support op-

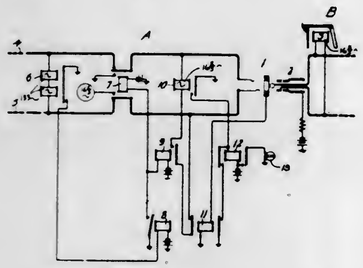
posite the permanent bead, and a removable glazing bead seated in the pocket and having a self-adjustable bearing relation to the glass to accommodate panes of varying thickness.

1,380,373. DRIER-HEATING SYSTEM. WILLIAM B. FULTON, Middletown, Ohio. Filed Oct. 1, 1919. Serial No. 327,783. 12 Claims. (Cl. 34—48.)



8. A drier system comprising primary and secondary groups of driers, means for supplying steam to said secondary group, means for withdrawing steam, air and water of condensation from said secondary group, means for separating the water from said steam and air, means for conducting the separated steam and air to said primary group of driers, a common suction device for exhausting said primary group of driers and for withdrawing water from said separating means and means for connecting said suction device with the steam space in said separating means when the pressure in said primary group of driers falls to a predetermined value.

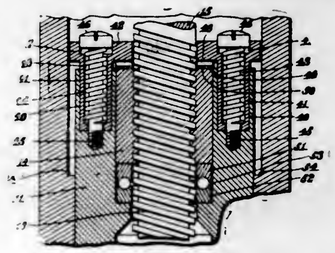
1,380,374. SIGNALING SYSTEM. FRED G. GARDNER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,766. 5 Claims. (Cl. 179—41.)



3. In a signaling system a line circuit, a source of current, means responsive thereto, a signaling device controlled thereby, and means associated with the line circuit and responsive to signaling current received thereover for simultaneously localizing a section of such line circuit and associating the source of current and the signal control means with such localized section.

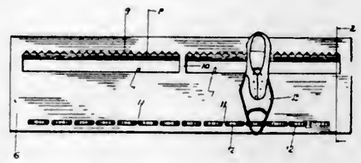
1,380,375. STOP MECHANISM FOR LIFTING-JACKS. FRANK L. GORMLEY, Brookline, Mass. Filed Jan. 20, 1921. Serial No. 438,540. 10 Claims. (Cl. 254—103.)

1. In a lifting jack, a standard; a nut therein normally locked from rotation; a revoluble screw therein; a sleeve surrounding the standard and movable endwise with said screw; and means actuated by the movement of said



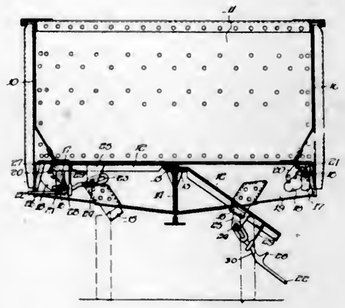
sleeve for unlocking said nut and permitting its free rotation with said screw.

1,380,376. SHOE-RACK. FRANK L. HARDCASTLE, Chicago, Ill. Filed Feb. 9, 1920. Serial No. 357,140. 4 Claims. (Cl. 211—14.)



3. A device of the class described comprising a plate member, having an elongated slot therein; a reinforcing rib interrupting said slot; interrupted lips integral with said plate member and bent up from said slot; and adjustable loop-forming means laced in said plate adjacent one edge thereof, substantially as described.

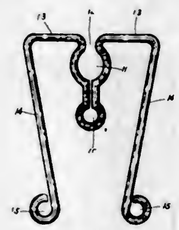
1,380,377. DOOR-OPERATING MECHANISM. HARRY S. HART, Chicago, Ill., assignor to National Dump Car Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 26, 1919. Serial No. 326,555. 7 Claims. (Cl. 105—306.)



1. In a general service car having a plurality of doors, means for directly lifting said doors to closed position individually, and a shaft carrying projecting means for engaging said doors for holding the latter in closed position.

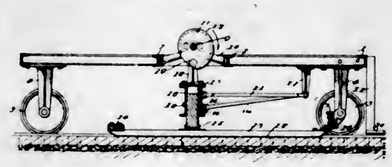
1,380,378. CLOTHESLINE-FIXTURE. HOMER A. HAZLETT, St. Paul, Minn. Filed Dec. 17, 1919. Serial No. 345,462. 3 Claims. (Cl. 24—131.)

1. A device of the class described consisting of a single resilient rod bent to form a central screw hole and a knot retainer, said rod forming substantially parallel branches between said screw hole and knot retainer, the ends of



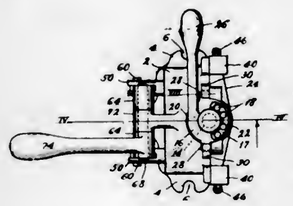
the rod being formed with loops and means for attaching said loops to a suitable support.

1,380,379. ROAD-BUILDING MACHINE. JOSEPH W. HELTZEL, Warren, Ohio. Filed Mar. 11, 1920. Serial No. 364,958. 5 Claims. (Cl. 94—48.)



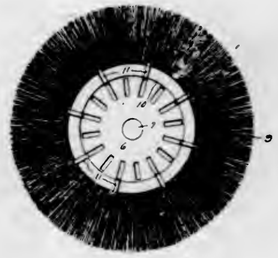
1. A machine of the character specified comprising a wheel supported frame, a tamping member hinged to the front of the frame and adapted to slide upon the pavement as the frame moves over the roadway, a ram for striking said tamping member transversely of the length thereof and approximately at the center, and means for lifting the ram and permitting it to fall upon the tamping member, said tamping member comprising a series of longitudinally extending plates arranged alongside each other and spaced apart slightly from each other and rigidly connected at their rear ends, said plates being hinged at their forward ends to the plate and being reinforced on their under faces.

1,380,380. BABBITTING-JIG. WILBUR J. HEMPY, Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company, a Corporation of Missouri. Filed Dec. 19, 1919. Serial No. 346,008. 7 Claims. (Cl. 22—123.)



1. In a device of the character described, a frame, a die associated with said frame to project into an article to be babbitted, and spring-actuated clamping means to engage both ends of said article to hold the same in proper position to be babbitted.

1,380,381. ROTARY BRUSH. RAYMOND C. HEROLD, Cleveland, Ohio. Filed Aug. 20, 1920. Serial No. 404,873. 2 Claims. (Cl. 15—37.)



1. A rotary brush comprising a plate having slots around the outer edge thereof, brush material inserted through said slots, rings placed against opposite sides of said material, and tongues struck up from the plate and folded over upon the rings.

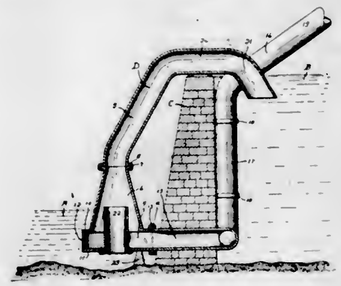
1,380,382. GRINDING COMPOUND. HAROLD S. HOLMES, Worcester, Mass. Filed Sept. 27, 1920. Serial No. 413,073. 4 Claims. (Cl. 51—280.)

1. An abrasive compound comprising a finely divided abrasive material, water, starch, glycerin, calcium chlorid, and a preservative.

1,380,383. PROCESS FOR THE RECOVERY OF POTASSIUM SALTS FROM SOLUTIONS CONTAINING THE SAME AS WELL AS OTHER SALTS. JOHN W. HORNSEY, Summit, N. J. Filed June 21, 1918. Serial No. 241,230. 4 Claims. (Cl. 23—22.)

1. The process of recovering potassium salts from solutions containing them and contaminating salts, which comprises evaporating the solution under pressure at a temperature above the boiling point of the solution at atmospheric pressure until a large part of the contaminating salts are thrown out of solution, separating the residual solution from the contaminating salts so deposited, and cooling the residual solution to precipitate the potassium salts.

1,380,384. HYDRAULIC FISHWAY. EDWARD SCOTT HOWARD, Yreka, Calif. Filed June 25, 1920. Serial No. 391,651. 10 Claims. (Cl. 61—21.)



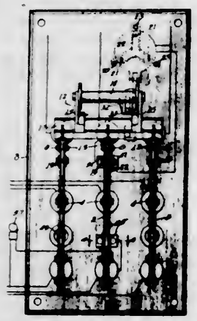
1. A fish way comprising a fish conveyer pipe having communication with the stream and a body of water formed by an obstruction in the stream, means for directing a column of water up through the conveyer pipe under pressure.

1,380,385. AUTOMOBILE-TURNTABLE. RICHARD B. ISEMAN, Clarion, Pa. Filed Oct. 15, 1920. Serial No. 417,074. 6 Claims. (Cl. 104—44.)



1. A traveling automobile turn table comprising a base provided with mobility wheels and having a vertical circular aperture, a turret located above said base and having a circular depending flange passing through the aperture in said base, rollers located between said base and said turret, other rollers carried by said flange and coacting with said base, and automobile carriers supported by said turret.

1,380,386. LOW-VOLTAGE RELEASE-SWITCH. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers' Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1918. Serial No. 248,971. 22 Claims. (Cl. 200—106.)



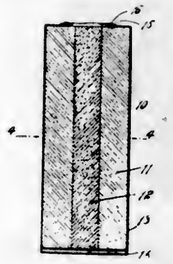
1. In combination with an electric switch having a switch blade member pivotally mounted upon a stationary terminal member and a coöperating stationary terminal member, latching mechanism for holding the blade into engagement with the coöperating stationary terminal member, said latching mechanism comprising a lever arm having a hook at the outer end thereof for coöperating with a shoulder on the blade member, and a second lever arm for resetting first said lever arm.

1,380,387. BOLT AND NUT LOCK. JOHN C. JOHNSON, Syracuse, N. Y. Filed June 28, 1920. Serial No. 392,237. 5 Claims. (Cl. 85—1.)



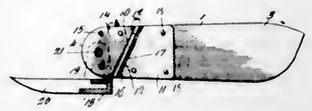
5. A bolt-and nut clamping device comprising a bolt having a head and a shank, an externally threaded sleeve slidable endwise of and upon the shank of the bolt and having an independent rotary adjustment thereon, means for limiting the rotary adjustment of the sleeve, additional means for holding the sleeve against endwise movement when adjusted rotarily in one direction to the limit of its adjustment, means for holding the sleeve against rotary adjustment in the opposite direction, and an internally threaded nut section screwing upon the sleeve.

1,380,388. STICK OF SHAVING-SOAP. JOSEPH KAUFMAN, New York, N. Y., assignor to American Safety Razor Company, Brooklyn, N. Y., a Corporation of New York. Filed May 22, 1919. Serial No. 298,875. 4 Claims. (Cl. 87—23.)



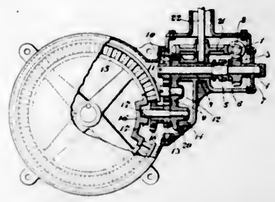
1. A stick of shaving soap incorporating therewith a longitudinal core of oleaginous substance other than soap adapted to combine with the soap in producing an efficient lather for softening the beard and protecting the skin against being irritated or unpleasantly affected by the action of the razor during the shaving process, said oleaginous core extending longitudinally of the shaving stick and confined and protected throughout its length by the soap composition of the stick to protect it from contact with the hand in use.

1,380,389. DIVIDER-BOARD. JOHN H. KILE, Bain, Minn. Filed Apr. 16, 1920. Serial No. 374,315. 4 Claims. (Cl. 56—314.)



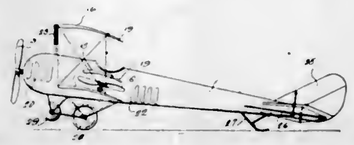
1. A dividing board formed of two sections having adjacent ends upwardly and rearwardly inclined and a hinge connection at said ends, whereby one of the sections may swing inwardly and upwardly to one side of the other.

1,380,390. GEARING. JULIUS H. KINTZELE, St. Louis, Mo., assignor, by mesne assignments, to Central Manufacturing Company, a Corporation of Delaware. Filed Sept. 26, 1918. Serial No. 255,798. 4 Claims. (Cl. 74—50.)



1. Gearing of the character described comprising a gear wheel, a support, a shaft journaled for rotation in said support at right-angles to the axis of the gear wheel, means for rotating said shaft, a pinion attached to said shaft, an arm having one end pivoted on said support and arranged to swing on its pivot from one position to another, a support against which the opposite end of said arm slides in its movements, means limiting swinging movement of said arm, a pinion supported by said arm meshing with the pinion on said shaft, a shaft supported by said arm, a pinion on said last-named shaft driven by said second-named pinion, and an additional pinion on said last-named shaft driven by said last-named pinion meshing with said gear wheel.

1,380,391. AIRPLANE. GEORGE A. KEHL, St. Paul, Minn. Filed July 25, 1918. Serial No. 246,715. 3 Claims. (Cl. 244—15.)

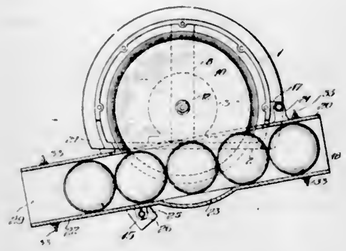


1. In an airplane the combination of a fuselage; a tractor propeller carried by said fuselage; a plurality of main aerofoils associated with said fuselage; an auxiliary aerofoil of less total surface area than said main aerofoils, carried by said fuselage intermediate said main aerofoils; a helicopter propeller associated with said auxiliary aerofoil and adapted to exert a vertical thrust thereon; and independent motors adapted to rotate each of said propellers.

1,380,392. PRODUCING NITRATING LIQUOR. ISIDOR KITSEE, Philadelphia, Pa. Filed Feb. 7, 1919. Serial No. 275,549. 5 Claims. (Cl. 23—1.)

5. The method of producing a liquor for the purpose of nitrating a cellulose which consists in generating in the required nitric acid, sulfuric acid in required quantities so that both acids produce the necessary nitrating solution.

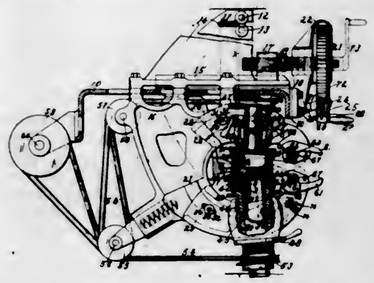
1,380,393. SLICING-MACHINE. WALTER CHANDLER KNAPP, Rochester, N. Y., assignor to Liberty Bread Slicer Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 11, 1919. Serial No. 323,166. 6 Claims. (Cl. 146—11.)



1. In a slicing machine, the combination of a support, a knife revolubly mounted therein, a chute having a slotted wall mounted on said support and adjustable to and from the knife, and means for securing the chute in adjusted positions.

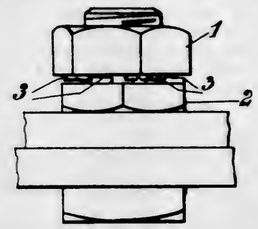
1,380,394. GRINDING-MACHINE FOR BELT-KNIVES. LLOYD G. KNOWLES, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 22, 1919. Serial No. 319,154. 16 Claims. (Cl. 69—16.)

3. In a machine of the character described, in combination, a belt knife, rolls for feeding work to one stretch of the knife, flat-faced grinders for operating upon the other stretch of the knife, and means for simultaneously



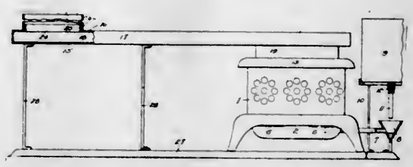
adjusting the feed rolls and the grinders relatively to those portions of the knife with which they coöperate.

1,380,395. LOCK-NUT. LOUIS L. KORACH, Chicago, Ill. Filed Aug. 23, 1919. Serial No. 319,452. 3 Claims. (Cl. 181—21.)



1. A lock nut comprising in its construction a plurality of nut-sections normally spaced apart and each having a screw-threaded axial opening adapted to receive and engage a screw-threaded bolt, and a plurality of threaded frangible connecting posts integral with and located between and normally connecting said nut sections, said posts being spaced apart and adapted to be broken into two sections forming opposed locking teeth between and in frictional abutting engagement with the opposed nut sections by the turning of one of said nut-sections with respect to and into locking engagement with the other nut-section.

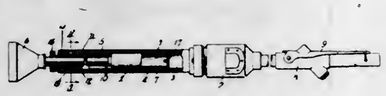
1,380,396. STOVE. CHARLES F. KULP, Wellston, Mo. Filed Jan. 2, 1918. Serial No. 209,913. 2 Claims. (Cl. 126—45.)



1. In combination, an oil stove having the fuel container provided with a plurality of air inlet passages arranged just above the fuel level, a collar arranged concentric with the burner of the stove, a utensil supporting housing having both ends closed and provided in its top plate with a utensil opening over the burner of the stove and provided with a flue opening at the extreme end of the housing, a collar depending from one end of the housing for telescopic connection with the collar of the stove for supporting one end of the housing upon the stove, the

bottom plate of said housing being provided with a multiplicity of concentrically arranged draft openings adjacent the upper end of the depending collar of the housing partly surrounding the collar and disposed in a substantial plane with the top of the burner within the collar, a support for the opposite end of the housing and a draft pipe extending upwardly from the flue opening of the housing.

1,380,397. COMBINED PISTON AND PLUNGER-ROD. AXEL LEVEDAHL, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Original application filed July 30, 1919, Serial No. 314,374. Divided and this application filed June 28, 1920. Serial No. 392,179. 7 Claims. (Cl. 74—108.)

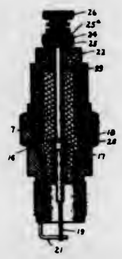


1. In a pneumatic tool, the combination of a barrel having a stuffing box in the outer end thereof, and a reciprocable piston rod in said barrel and extending beyond the outer end of said barrel through said stuffing box, said rod being provided with a plurality of longitudinally extending, concave flutes, and said stuffing box being provided with means for engaging said flutes to hold the rod against rotation.

1,380,398. MOLD MIXTURE. VICTOR LOUGHEED, San Francisco, Calif., assignor to Enterprize Foundry Company, San Francisco, Calif., a Corporation of California. Filed Aug. 18, 1919. Serial No. 318,208. 3 Claims. (Cl. 22—188.)

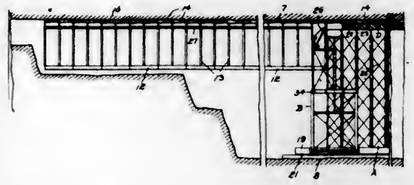
1. A mold material composed of calcium sulfate and kieselguhr, with the volume of kieselguhr in excess of that of calcium sulfate.

1,380,399. SPARK-PLUG. JOHN A. LUTHER, Schenectady, N. Y. Filed July 25, 1919. Serial No. 313,342. 10 Claims. (Cl. 123—169.)



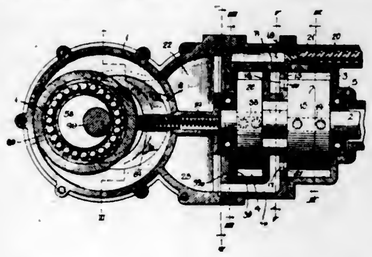
1. In a spark plug, the combination of a shell adapted to be attached to a support and provided with an internal shoulder, a stationary insulator mounted within the shell and having an enlarged portion which is seated on the shoulder, a shock absorbing compression spring which surrounds the insulator and forms the means for holding it on its seat against cylinder pressure, an abutment for the outer end of the spring, a stationary electrode which passes through the insulator and is adapted to be connected to a source of current, and a second electrode coöperating with the first and permanently separated therefrom by an air gap.

1,380,400. METHOD OF AND APPARATUS FOR TUNNEL-WORK. CHARLES D. MCARTHUR, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Aug. 8, 1918. Serial No. 248,839. 12 Claims. (Cl. 61—42.)



1. In tunnel lining apparatus, the combination of a series of mold form sections and a series of roof-supports disposed in advance of said sections, lagging on said supports, said sections and supports disposed in succession longitudinally of the tunnel, and means for carrying forward rear sections and supports for positioning in advance of their respective series, the rear section designed to replace the removed rear support with reference to the lagging on said support, and bulkheads adapted to support the lagging from said mold form sections where they replace roof supports.

1,380,401. DRIVING MECHANISM. JAMES W. MCQUEEN, Detroit, Mich. Filed Feb. 1, 1915. Serial No. 5,342. 14 Claims. (Cl. 60—53.)

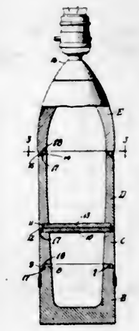


1. A driving mechanism comprising a power shaft, pumps of different capacity connected thereto, a pair of driven shafts, a fluid operated motor connected to each driven shaft directly, means controlling the flow and return of driving fluid from the pumps to the motors for driving the motors in either direction of rotation in relation to the pump movement, said controlling means being operative to selectively control the activity of the pumps relative to the fluid flow, and means rendered active by said control means for retaining the contents of an inactive pump within the pump chamber.

1,380,402. TABLE OR DESK NOVELTY. ANGUS S. MACDONALD, Great Neck Station, N. Y., assignor to The Snead & Co. Iron Works, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 6, 1919. Serial No. 281,005. 1 Claim. (Cl. 65—53.)

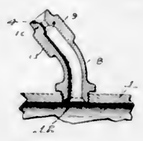
A novelty of the character described consisting of an artillery shell cut transversely into four sections, the adjacent ends of each of which are rabbeted to provide interfitting rims, said rims being provided with means adapted to interlock on relative rotation of the sections, a fixture on the top section, a plate fitted into the lower end of the second section of less thickness than the depth of the rim on said section, and a plate fitted into the upper end of the third section of a thickness greater than the depth of the rim of said section, the projecting portion of

said second plate being adapted to be slidingly fitted into the lower end of the second section; whereby when all



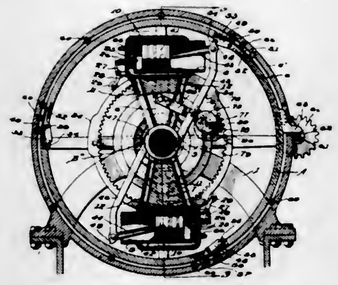
sections are assembled the shell constitutes a stand, and when disassembled, the top section constitutes a stand and the remaining sections, receptacles having bottoms.

1,380,403. NOZZLE. GEORGE E. MARCH, Muskegon, Mich. Filed Apr. 23, 1920. Serial No. 375,963. 3 Claims. (Cl. 299—107.)



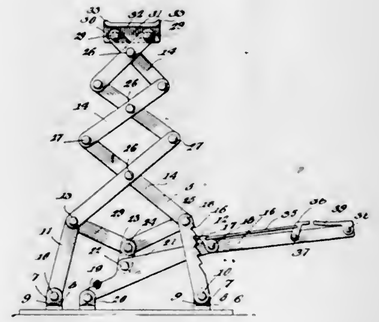
1. A nozzle comprising a rigid portion adjacent its outer end and a portion intermediate its end, integral with said rigid portion, said intermediate portion being adapted to be bent into maintained axially-changed forms.

1,380,404. ROTARY INTERNAL-COMBUSTION ENGINE. RUFUS E. MILLER, Pocono Pines, Pa. Filed Apr. 10, 1919. Serial No. 288,997. 25 Claims. (Cl. 123—43.)



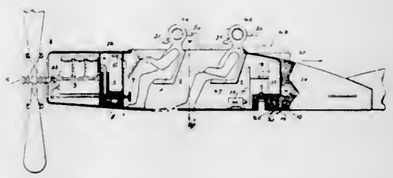
1. In a rotary engine, the combination, of a power shaft, cylinders connected to said power shaft for rotation therewith, pistons supported from the power shaft for relative movement with respect to the cylinder, and stationary means for holding the piston from backward motion.

1,380,405. AUTOMOBILE-JACK. BERT MULVANE, Cleveland, Ohio. Filed Feb. 18, 1920. Serial No. 359,724. 5 Claims. (Cl. 254—122.)



1. A jack comprising a base plate, a plurality of pairs of superposed crossed levers pivotally connected at the points of intersection, means pivotally connecting the meeting terminals of the pairs of levers together, the pairs of levers being gradually decreased in length toward the upper end of the jack, a head carried by the outer terminals of the uppermost pair of levers, an operating lever pivotally connected to the base plate, and means pivotally connecting the operating lever intermediate its ends to the lowermost pair of levers.

1,380,406. HIGH-ALTITUDE FLYING-MACHINE. SAMUEL D. MOTT, Passaic, N. J., assignor of one-half to Arthur B. Sullivan, Allendale, N. J. Filed Sept. 12, 1919. Serial No. 323,824. 20 Claims. (Cl. 244—30.)

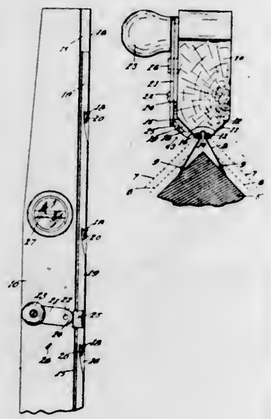


1. A high altitude aircraft having a sealed compartment combined with an injector or blower supplying air to the same from the surrounding atmosphere, a motor therefor operating independently of the speed of the aircraft engine, and means for automatically changing the speed of the motor as the altitude changes.

1,380,407. BUILDER'S TOOL. PER O. NELSON, Minneapolis, Minn. Filed Nov. 18, 1920. Serial No. 425,012. 6 Claims. (Cl. 33—180.

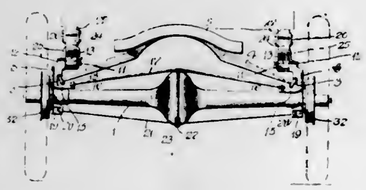
1. A device of the class described, consisting of a main body member, the same having two diverging faces at one edge thereof, a longitudinal strip fixed on one of

said faces, a clamping strip positioned on the other face and having one of its edges in parallel coacting relation



to the adjacent edge of the first mentioned strip, and means for clamping said adjacent strip edges toward each other.

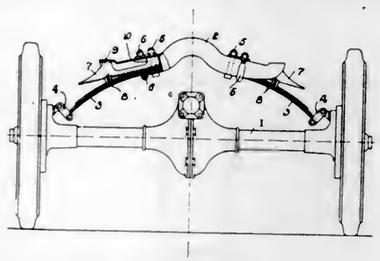
1,380,408. SPRING SUSPENSION. NELS L. OLSON, Detroit, Mich. Filed Apr. 14, 1916. Serial No. 90,996. 9 Claims. (Cl. 180—88.)



1. In an automobile having a rear axle provided with end flange members and a rear spring with suspending shackles, spring supporting members adapted to be secured astride the axle to the flange members and provided with shackle supports to which the shackles are secured, spring perch brackets on the supports, perches on the brackets, an auxiliary body and springs secured to the perches and shackled to the body.

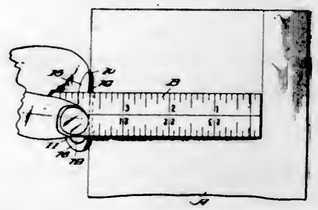
1,380,409. AUTOMATIC TENSION-REGULATOR FOR VEHICLE-SPRINGS. NELS L. OLSON, Highland Park, Mich. Filed Apr. 19, 1919. Serial No. 291,229. 2 Claims. (Cl. 267—48.)

2. The combination with a rear axle housing, and a channel load carrying member above said housing, of cantaliver springs having the inner ends thereof in said channel load carrying member, and the outer ends thereof connected to said rear axle housing, fastening means for the inner ends of said springs, and shoe members having the inner ends thereof interposed between the inner ends of said springs and said load carrying member and the outer ends thereof extending at an angle to said springs and adapted to contact therewith and decrease the flexure length of said springs, said shoe members having the



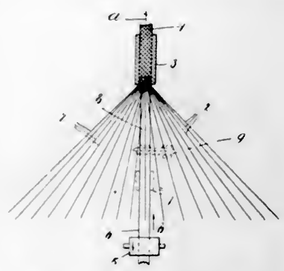
inner ends theerof channel shaped and held by the fastening means at the inner ends of said springs.

1,380,410. FINGER FENCE AND PROTECTOR. WILLIAM H. PARRY, Fayetteville, N. C. Filed Nov. 13, 1919. Serial No. 337,900. 3 Claims. (Cl. 2—104.)



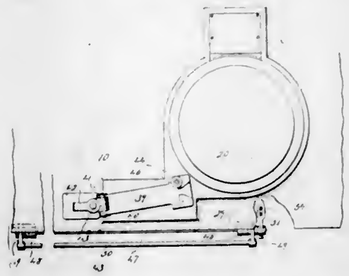
1. A finger guard and fence comprising a body part having a bearing surface adapted to engage the edge of a piece of work along which the finger is to be drawn for protecting the finger and provided with an outstanding portion adapted to overlap the work to support the guard and finger.

1,380,411. METHOD OF MAKING LACES. ANKER PETERSEN, Winthrop, Mass., assignor, by mesne assignments, to The American Wiremold Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 25, 1919. Serial No. 319,788. 5 Claims. (Cl. 18—59.)



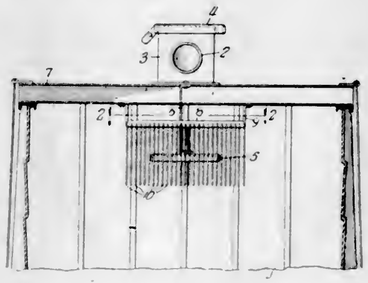
1. The art of making tipped laces comprising forming a fabric, inserting therein at predetermined intervals blanks of sheet material for tips, and subsequently completing the laces by consolidating the sheet material and the surrounding fabric by compression whereby to coil said material upon itself and embed the fabric therein and severing the lace from the length of fabric.

1,380,412. STOP DEVICE FOR WIRE-DRAWING OR SIMILAR MACHINES. WILLIAM D. PIERSON, Waterbury, Conn., assignor to the Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 1, 1919. Serial No. 341,687. 8 Claims. (Cl. 205—16.)



7. In a machine of the character described, the combination with the block; of means for rotating the same, a rock member extending along one side of the machine, and an operative connection between said rock member and the means for rotating the block.

1,380,413. BAFFLE-CURTAIN FOR ASH-TANKS. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed July 28, 1920. Serial No. 399,639. 5 Claims. (Cl. 302—59.)

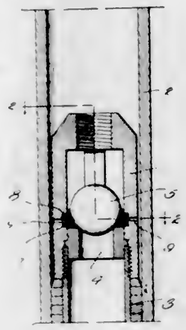


5. The combination with an ash tank, of a pipe opening into said tank for discharging ash into the same, a splash plate supported in said tank below the discharge end of said pipe and in position to have the ash discharged thereon, an open frame supported in said tank above and surrounding said plate and spaced outward therefrom, and a plurality of rods, laterally spaced apart and having their upper ends hooked into holes in said frame from the outside thereof and hanging below said plate and against which the ash strikes after splashing from said plate.

1,380,414. PROCESS OF SECURING CERTAIN DERIVATIVES OF TERPENES. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to E. H. Clapp Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 22, 1918. Serial No. 229,925. 2 Claims. (Cl. 23—24.)
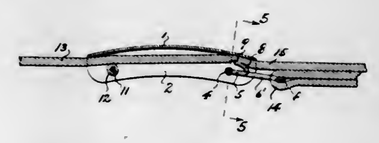
1. The herein described process which consists in digesting a mixture of spirits of turpentine and hydrated oxalic acid at a temperature of or above 140° C.; and then separating the acid from the resulting product.

1,380,415. CHECK-VALVE. JAMES K. PUTNAM, Tulsa, Okla. Filed Apr. 10, 1919. Serial No. 289,048. 1 Claim. (Cl. 251—167.)



In a check valve, a cage for reception in a liquid or fluid container, said cage having an annular internal valve seat and an annular internal channel having a side flush with said seat, a check valve for contact with the inner portion of said seat, and an elastic ring resting on said seat and held in said channel, said cage having a port into said channel permitting the pressure or weight of the trapped fluid or liquid to contract said elastic ring around said check valve.

1,380,416. BELT-BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed May 29, 1920. Serial No. 385,182. Renewed Mar. 31, 1921. Serial No. 457,425. 2 Claims. (Cl. 24—191.)

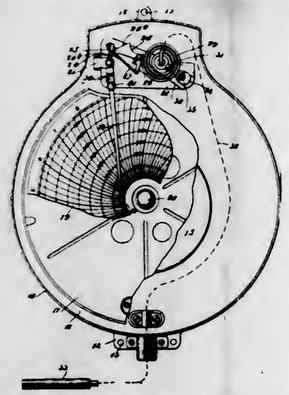


1. A belt buckle comprising a face plate, longitudinal side flanges projecting rearwardly from said face plate, a pivoted clamp device comprising a base portion having journal lugs journaled in the walls of said side flanges adjacent to one end of said face plate and spaced rearwardly from the back of the latter, a loop member projecting outwardly from the outer edge of said base portion, and a jaw body integrally formed with said base portion to spring from the outer edge of the latter intermediate the side arms of said loop member, said jaw body being curved upwardly and rearwardly to provide a free biting edge spaced intermediate the back of said face plate and the inner face of said base portion.

1,380,417. RECORDER. ALFRED ROESCH, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 28, 1920. Serial No. 406,740. 10 Claims. (Cl. 234—11.)

1. A recorder comprising a casing, a movable chart therein, a pen arm movably mounted in said casing in operative relation to said chart, a device in said casing sensitive to temperature changes and a cam mounted upon

said sensitive device and partaking bodily of the movements thereof, said cam having an active surface adapted



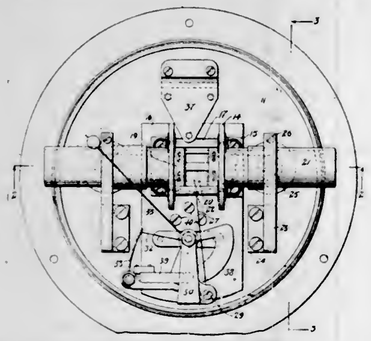
to cause a movement of said pen arm relatively to said chart.

1,380,418. GARMENT-GAGE. HANS WALTERS ROSVALL, Seattle, Wash. Filed Apr. 26, 1919. Serial No. 292,802. 2 Claims. (Cl. 33—15.)



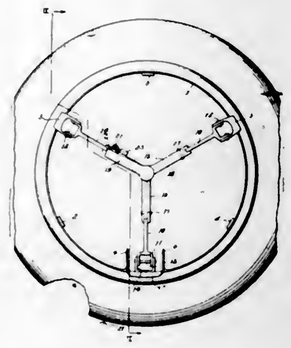
1. In an article of the class described, the combination of an inner garment, composed of sections, elastic material which joins the edges of the sections in spaced relation with respect to each other, lines of spikes marking the center line of the said spacing, an outer garment of less elasticity than the first mentioned garment adapted to fit snugly over the inner garment and thus cause the spikes to perforate any pattern paper which may be inserted between the two garments.

1,380,419. ELECTRIC MEASURING INSTRUMENT. FRANK W. ROLLER, East Orange, N. J., assignor to Roller-Smith Company, a Corporation of New York. Filed Aug. 5, 1916. Serial No. 113,281. 7 Claims. (Cl. 171—308.)



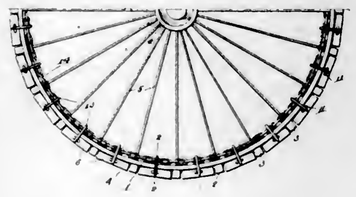
1. In an electric measuring instrument, a pair of parallel electrically conductive rings, a plurality of thin conductor strips with their ends attached to the respective rings, a cylindrical heat absorbing body within the space inclosed by said strips, and an index controlled by the change of length of one of said conductors.

1,380,420. TIRE-CARRIER. STEFAN RYMOWICZ, Kenosha, Wis. Filed July 22, 1920. Serial No. 398,145. 11 Claims. (Cl. 224—29.)



5. A tire carrier comprising a supporting band, supporting arms carried thereby, some of said arms being movable relative to said band, and means arranged axially of said band and rotatable concentrically therewith and coöperating with said movable arms to hold the same rigidly positioned.

1,380,421. PROTECTIVE DEVICE FOR TRACTOR-WHEELS. EDWARD SCHMID, Columbus, Ohio. Filed Nov. 17, 1919. Serial No. 338,584. 5 Claims. (Cl. 301—43.)

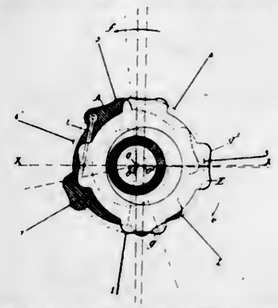


5. A tread forming structure for vehicle wheels, comprising a plurality of removable plate members arranged to be seated upon the rim of a wheel and between the rigid cleats of the latter, said plate members embodying substantially U shaped metallic strips, filler blocks of a different material from said strips positioned in the latter, bolt members passing through said strips and arranged to retain said filler blocks in their applied positions, and securing chains coöperatively connected with said bolts.

1,380,422. INTERNAL-COMBUSTION ENGINE. EMILE JOSEPH AUGUSTIN SCHULTZ, Paris, France. Filed Sept. 24, 1918. Serial No. 255,514. 5 Claims. (Cl. 123—44.)

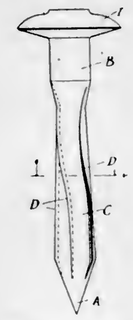
1. Distributing mechanism for rotary cylinder internal combustion engines having an odd number of cylinders, and valve tappets, the ends of which are normally equidistant from the axis of rotation, which mechanism comprises a single admission cam, a single exhaust cam, said cams having rounded bosses for displacing the respective valve tappets, each cam being eccentric in relation to the axis

of the engine, and differential driving means for rotating said cams at a speed such that the relative speed between



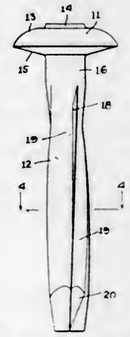
the cams and the engine is that requisite for determining admission and exhaust at the proper periods, the rounded bosses displacing the tappets by a sliding engagement.

1,380,423. SPIKE. MARCEL K. SESSLER, New York, N. Y., assignor to American Spike Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 6, 1919. Serial No. 281,014. 13 Claims. (Cl. 85—20.)



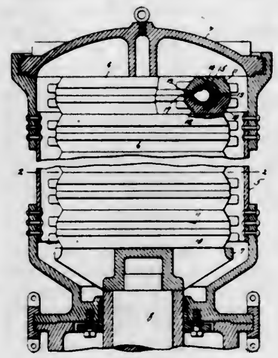
1. A spike having a convexly curved face and a spiral fin, one side of the fin being rounded transversely and the other side of the fin forming an obtuse angular channel with said convexly curved face.

1,380,424. SPIKE. MARCEL K. SESSLER, New York, N. Y., assignor to American Spike Company Incorporated, New York, N. Y., a Corporation of New York. Filed July 23, 1919. Serial No. 312,793. 13 Claims. (Cl. 85—20.)



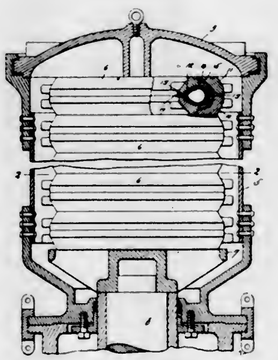
1. A spike comprising a head and a body, said body being formed to leave four outstanding spiral fins each having a convex lower face and a relatively flat upper face which meets the convex face of the next fin at approximately right angles, said flat face having an increasing radial depth as the tip is approached and terminating in four chisel faces arranged radially about the axis of said spike.

1,380,425. MOLD FOR VULCANIZING PNEUMATIC TIRES. WILLIAM SEWARD, Baltimore, Md. Filed Sept. 22, 1919. Serial No. 325,504. 5 Claims. (Cl. 18—17.)



1. A tire-casing vulcanizing apparatus, comprising a vulcanizing chamber which is fluid-tight to hold a gaseous fluid-pressure and steam, a mold in said chamber, and means for conducting gaseous fluid pressure and steam from said chamber into the casing for inflating the same in the mold.

1,380,426. PROCESS FOR VULCANIZING PNEUMATIC TIRES. WILLIAM SEWARD, Baltimore, Md. Filed Sept. 22, 1919. Serial No. 325,505. 4 Claims. (Cl. 18—53.)



1. The process of vulcanizing a tire casing in a mold located in a vulcanizing chamber, consisting in supplying a gaseous fluid pressure and steam to the interior of the

chamber, and permitting such fluid pressure and steam to enter the interior of the tire casing for distending the same in the mold.

1,380,427. MANUFACTURE OF A FOOD PREPARATION FROM FRESH BLOOD. FRIEDRICH SGALITZER, Vienna, Austria. Filed June 22, 1920. Serial No. 390,968. 2 Claims. (Cl. 99—5.)

1. A manufacture of an easily digestible, durable and soluble preparation from blood, from which the fibrin has been caused to separate to prevent coagulation, wherein the blood corpuscles are at first disrupted, then dried in a vacuum on surfaces heated to a temperature above the coagulating temperatures of the albumens, the degree of vacuum being such that the liquid is evaporated at about 30° C. while the substance being dried is not heated above 40° C.

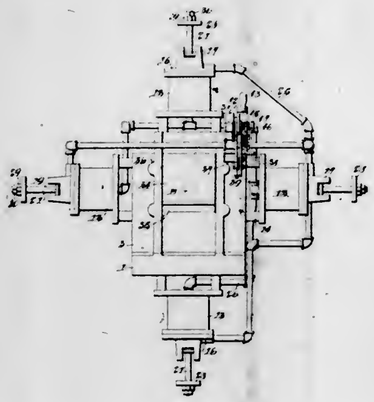
1,380,428. WATERPROOFING COMPOSITION AND PROCESS OF MAKING SAME. TAKEJIRO SHIBATA and EIICHIRO OE, Kita-Ku, Osaka, Japan. Filed May 6, 1918. Serial No. 232,684. 7 Claims. (Cl. 134—11.)

1. A waterproofing composition the sole active agents in which consist of the reaction products of acetate of aluminum and saponified vegetable oil.

1,380,429. METHOD OF TREATING WOOD. SYDNEY SMITH, Detroit, Mich., assignor to The Studebaker Corporation, a Corporation of New Jersey. Filed Aug. 2, 1919. Serial No. 315,035. 5 Claims. (Cl. 99—12.)

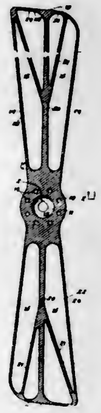
1. In the art of treating wood, the process of increasing its strength and raising its critical point, which consists in applying to the wood a chemical agent and thereafter subjecting it to a gradual rise in temperature extending over a prolonged period.

1,380,430. DEVICE FOR REMOVING FLAWS FROM STEEL BILLETS WHILE HOT. JOHN L. SMITH, Hamilton, Ontario, Canada. Filed Jan. 16, 1920. Serial No. 351,863. 11 Claims. (Cl. 29—81.)



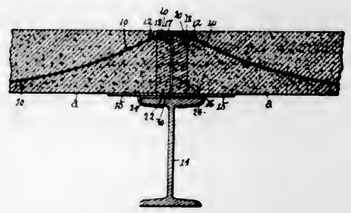
1. In a device for removing flaws from billets as they are being rolled, a support, billet scrapers, fluid actuated piston devices for moving the scrapers into and out of operative position and a device for limiting the movement of the piston in a direction to advance the scraper, said device comprising a rod carried by the piston and an adjustable stop device on the rod.

1,380,431. PROPELLER. WILLIAM W. SMITH, Buffalo, N. Y., assignor of one-half to William C. Kidder, Buffalo, N. Y. Filed Mar. 22, 1920. Serial No. 367,643. 2 Claims. (Cl. 170—159.)



1. A propeller having hollow blades reinforced by longitudinal stiffening ribs, and lateral stiffening ribs extending outwardly from said longitudinal stiffening ribs and at an oblique angle relatively thereto.

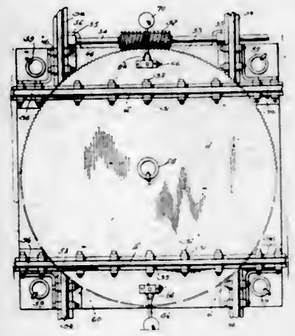
1,380,432. BUILDING CONSTRUCTION. PEREZ M. STEWART, New York, N. Y., assignor to Gertrude F. Stewart, New York, N. Y. Filed Mar. 12, 1918. Serial No. 222,031. 12 Claims. (Cl. 72—71.)



6. In a building construction, in combination, a plurality of slabs provided with metal reinforcements and spaced apart, a metal support located below said slabs and provided with a flange, and a metal device coöperating with said metal support and having a member of substantial width extended upwardly above said metal support into the space between the adjacent ends of the slabs resting on said flange.

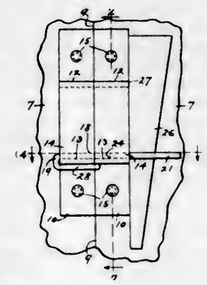
1,380,433. RAILROAD-CROSSING. WILLIAM G. STOCKHAM, Piqua, Ohio. Filed July 3, 1920. Serial No. 393,850. 6 Claims. (Cl. 246—378.)

1. A rail crossing comprising a base having an upstanding annular side wall, a table mounted upon said base, said upstanding side wall of the base and the adjacent portion of said table being formed with a raceway, anti-friction



devices arranged in said raceway, and rail sections mounted upon said table.

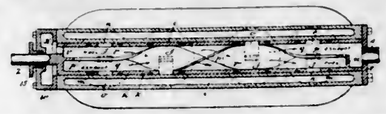
1,380,434. FASTENING MEANS FOR MOLDS. GEORGE R. STRAN, Cleveland, Ohio. Filed Jan. 23, 1920. Serial No. 353,427. 2 Claims. (Cl. 25—131.)



1. The combination, with two adjoining portions of a mold-forming casing, said casing-portions being arranged edge to edge and alined at their meeting edges, and two brackets rigid with the different aforesaid casing-portions respectively and arranged externally of the casing and adjacent the joint formed between said casing-portions, each bracket having a laterally and outwardly offset portion which is contoured as required to form an abutment-member spaced from and facing the casing-portion supporting the bracket, of a bar which is interposed widthwise between the abutment-member of each bracket and said casing-portions and extends across the inner side of said abutment-member and has a jaw overlapping an outer edge of one bracket and also has a portion projecting beyond an outer edge of the other bracket, said bar having a slot which extends longitudinally of and inwardly from said projecting portion and has an outer end wall, and a wedge engaging said slot and interposed widthwise between said wall and the adjacent bracket, the aforesaid jaw having an arm overlapping the outer sides of the offset portions of the brackets.

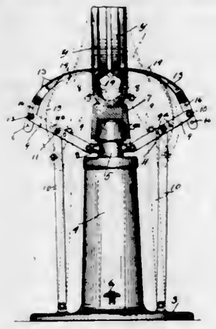
1,380,435. MOTOR-VALVE. LOUIS STREBEL, New York, N. Y. Filed Feb. 16, 1917. Serial No. 149,142. 1 Claim. (Cl. 123—59.)

An explosive motor comprising a series of cylinders each having a port controlling the intake and exhaust, a tubular rotary valve having inlet and exhaust to coöperate with the cylinder ports, a fuel compartment having an inner and outer wall located adjacent the inlet, the outer wall being made to support the axis of the valve, a circular inlet disposed in the other wall for admitting a combustible



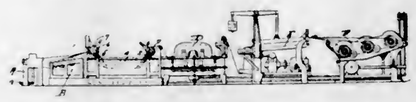
into the valve, and a cover having an exhaust outlet fixed opposite to the compartment.

1,380,436. TIRE-SPREADER. OLAF SUNDBY, East Ellsworth, Wis., assignor to Sundby & Harris, East Ellsworth, Wis., a Copartnership composed of Olaf Sundby and George Harris. Filed Feb. 5, 1921. Serial No. 442,869. 7 Claims. (Cl. 154—9.)



1. A device for opening tire casings comprising a vertically movable member supporting a platen, on which latter the tire casing is adapted to rest, a pair of levers pivotally connected to said vertical member at their outer ends, grapple arms pivoted to the outer ends of said levers, and fulcrum links pivotally anchored at their lower ends and at their upper ends pivotally connected to the intermediate portions of said levers.

1,380,437. MACHINE FOR TREATING METAL STRIPS. AUGUST SUNDH, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. a Corporation of Pennsylvania. Original application filed Dec. 20, 1917, Serial No. 208,070. Divided and this application filed Mar. 3, 1920. Serial No. 362,899. 13 Claims. (Cl. 266—7.)

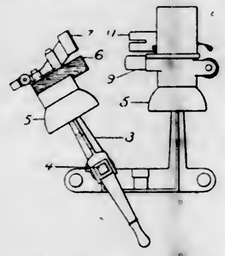


2. In mechanism of the class described, strip pickling means, independently operable rollers for guiding a plurality of strips passing simultaneously through the pickling means, rollers for guiding each strip as it leaves the pickling means, the first rollers mentioned being disposed so as to cause each strip to pass through the pickling means more than once, and means for wiping each strip as it passes from the pickling means, the rollers last mentioned being so arranged that the pickle removed by the wipers will be returned to the pickling means.

1,380,438. ELECTRIC-CIRCUIT-BREAKING SWITCH. JOSEPH S. THOMPSON, Mill Valley, Calif. Filed Sept. 29, 1920. Serial No. 413,557. 2 Claims. (Cl. 200—106.)

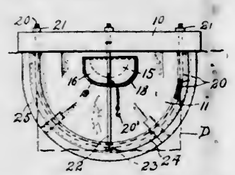
1. In an electric switch, a plunger engaging face and a switch blade on a rocker insulator, and a contact clip, a spring actuated plunger, a releasing latch and actuating

series coil on a fixed insulator, the rocker insulator plunger face capable of being operated to force back the plunger into a latched position and the plunger capable of



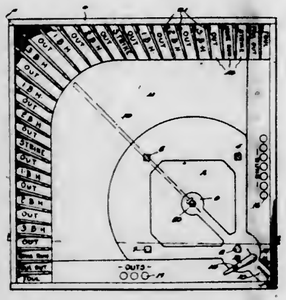
forcing away the rocker insulator plunger face, and with it the switch blade upon the release, through a predetermined flow of current through the series coil, of the plunger releasing latch.

1,380,439. CANVAS DAM. PAUL E. THOMPSON, Worland, Wyo. Filed July 11, 1919. Serial No. 310,141. 4 Claims. (Cl. 61—29.)



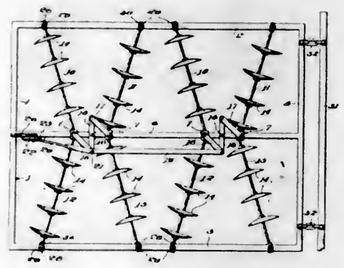
1. A dam for irrigating ditches comprising a bridge bar having a U-shaped frame depending therefrom and a strip of fabric looped about the frame, a fabric sheet to which the edges of the strip are stitched, the sheet extending beyond the frame continuously of it below the bar and constituting a sealing apron flexible at all points.

1,380,440. BASEBALL GAME-BOARD. MANUEL P. TOSSO, Jr., New Orleans, La. Filed Dec. 3, 1919. Serial No. 342,064. 1 Claim. (Cl. 46—61.)



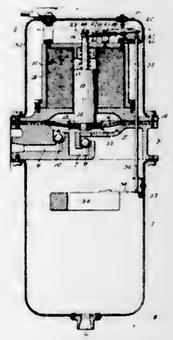
A game apparatus comprising a board having a representation of a base ball field on its upper surface, said surface being beveled around the outer edges of the base ball field, a retaining wall around the board, vertical partitions secured on the beveled portion of the surface of the board on lines converging toward the home plate of the base ball field, the outer ends of the partitions abutting the retaining wall, a bat pivotally mounted on the board adjacent the home plate, a fixed partition in rear of the bat on a line parallel with the line connecting the pitcher's box and the home plate, a ball to be placed in the pitcher's box, and a cue to propel the ball from the pitcher's box toward the home plate and the bat.

1,380,441. HARROW. ALTON A. TRUMAN, Howard, S. D. Filed Apr. 14, 1919. Serial No. 289,913. 2 Claims. (Cl. 55—83.)



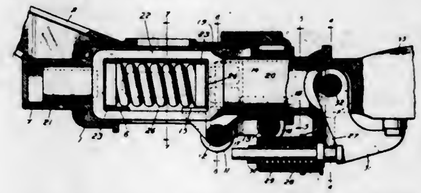
1. In a harrow, the combination, of a rigid frame comprising side rails, and a longitudinally extending center brace, a casting slidably carried by said brace, a pair of shafts disposed in angled relation to each other and to the line of travel of the frame, universal joints connecting the inner ends of said shafts to said casting, bearings pivotally carried by the side rails of said frame, the outer ends of said shafts extending slidably through said bearings, means for shifting said castings longitudinally upon said center brace, pulverizing disks upon said shafts, a second casting slidably carried by said center rail, a second pair of shafts disposed at oblique angles to each other and having their inner ends pivotally connected to said second slidable casting, means pivotally and slidably connecting the outer ends of said last-named shafts to said side rails, pulverizing disks mounted upon said second-named shaft, the pulverizing disk upon one shaft being disposed in opposed relation to the shaft next thereto, and means operatively connecting the second mentioned casting with the first mentioned casting.

1,380,442. FUEL-SUPPLYING MEANS FOR MOTOR-VEHICLES. JOHN T. TRUMBLE, Detroit, Mich., assignor of one-half to Walter L. Mack, Detroit, Mich. Filed July 29, 1919. Serial No. 314,123. 7 Claims. (Cl. 158—36.)



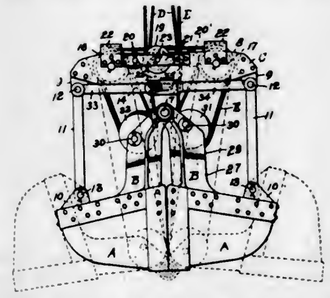
1. In a device of the character described, the combination of a receiving chamber having an outlet, suction means for discharging fuel into said chamber, electrically operated means for operating said suction means, an electrical circuit for said electrical means, a switch operated by movement of said suction means for controlling said circuit, and a float in said receiving chamber for opening said switch.

1,380,443. DRAFT-GEAR. HERBERT E. VAN DORN, Chicago, Ill. Filed Sept. 2, 1919. Serial No. 320,992. 9 Claims. (Cl. 213—42.)



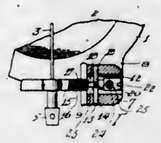
7. In combination, a drawbar, a horizontal hinge pin supported at the front end of said drawbar, a horizontal spring pressed plunger lying below and extending parallel with the drawbar, a bracket mounted on said hinge pin and extending downwardly in front of said plunger, said bracket having a forwardly extending arm, and a coupler head hung on said hinge pin and resting loosely upon said arm.

1,380,444. EXCAVATING-BUCKET. WILLIAM M. VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed May 27, 1918. Serial No. 236,687. 21 Claims. (Cl. 37—30.)



1. A clam shell bucket comprising in combination, a pair of scoop segments, hinge members therefor pivotally connecting the segments together, an upper frame extending longitudinally of the bucket, substantially vertical supporting bars between the frame and the scoop segments, an operating sheave in the frame on each side of the hinge pivot and an operating sheave in a hinge member on each side of the pivotal connection between the segments, and an operating cable reeved on said sheaves.

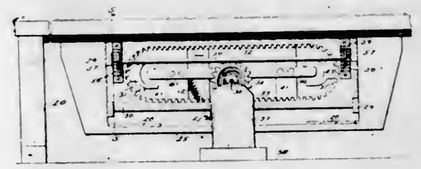
1,380,445. REPRODUCER FOR TALKING-MACHINES. OTTO H. WANDERSEE, Rochester, N. Y. Filed July 7, 1920. Serial No. 394,433. 11 Claims. (Cl. 274—35.)



5. The combination with a reproducer casing, of a stylus lever having laterally extending arms provided with screw threaded openings, extensions secured in said openings, and means for supporting said extensions.

1,380,446. PRESS BED-MOVEMENT. JOHN WILLIS WEAVER, Raleigh, N. C. Filed June 26, 1920. Serial No. 392,131. 7 Claims. (Cl. 74—98.)

2. In a mechanical movement the combination of a reciprocating bed member, a rack-plate suspended therefrom and mounted to have vertical movement independent of the bed, said plate including top and bottom gear racks connected at their ends by arcuate gear racks of similar pitch, a driving pinion mounted to rotate continuously and meshing with said gear racks, a riding roll carried on the shaft of said pinion, a horizontal control bar mounted in the center between said top and bottom gear



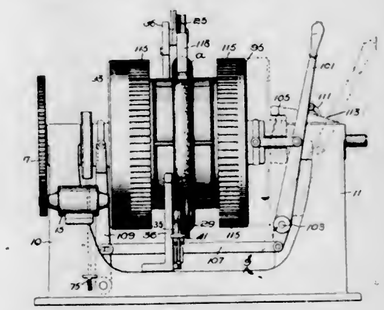
racks and means for causing the control bar to raise and lower, and travel in contact with the riding roll, said means including intermeshing gear parts carried respectively by the bed and the rack plate.

1,380,447. TROCAR. WILLIAM B. WESCOTT, Wellesley, Mass., assignor, by mesne assignments, to Protein Products Corporation, Boston, Mass., a Corporation of Massachusetts. Filed June 14, 1919, Serial No. 304,317. Renewed Nov. 26, 1920. Serial No. 426,607. 7 Claims. (Cl. 128—347.)



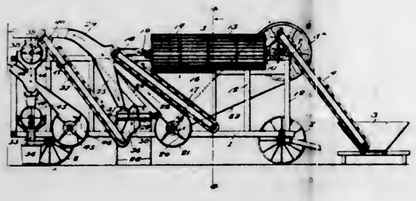
1. A trocar comprising a cannula having a walled aperture extending transversely through the cannula body dividing the interior cannula passage into two imperforate parts, and crossed retaining levers extending through said aperture.

1,380,448. WRAPPING-MACHINE FOR ANNULAR ARTICLES. WILLIAM M. WHEILDON, Ashland, and EDWARD H. ANGIER, Framingham, Mass.; said Wheildon assignor to said Angier. Filed Apr. 26, 1917. Serial No. 164,825. 23 Claims. (Cl. 93—5.)



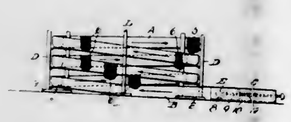
22. A machine of the class described comprising means to support a tire with a wrapping strip encircling its inner circumference and means to fold both edges of the strip up over the sides of the tire.

1,380,449. PORTABLE PEANUT CLEANER AND GRADER. JOSEPH W. WHITMORE, Dendron, Va., and THOMAS J. WHITMORE, deceased, Dendron, Va., by Thomas B. Whitmore, administrator, Dendron, Va. Filed Feb. 15, 1919, Serial No. 277,376. Renewed Apr. 19, 1921. Serial No. 462,645. 2 Claims. (Cl. 130—30.)



1. A combined peanut grader and cleaner including a source of power; a grading and polishing cylinder driven from said source of power; mechanism for subjecting the materials to a blast associated with said cylinder; a separating instrumentality for apportioning materials so subjected to the blast; a hand-picker belt associated with the separating instrumentality and adapted to receive materials therefrom; means for conveying materials selected from the picker belt; a grading and shelling instrumentality associated with the conveyer; and mechanism for subjecting the materials to a blast associated with the grading and shelling instrumentality; the conveyers, picker belt, cylinder, blast-producing, grading and shelling instrumentalities all being in driving connection with the source of power.

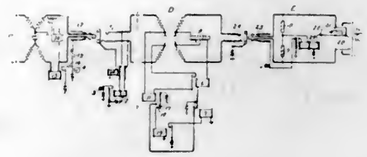
1,380,450. GAME. GEORGE A. WIGGINS, Hamilton, Ontario, Canada. Filed Aug. 28, 1920. Serial No. 406,609. 2 Claims. (Cl. 46—61.)



1. In a game apparatus of the class described, the combination with a spiral runway, of a plurality of pockets spaced at intervals along said runway and communicative therewith, a ball adapted to travel said runway in an upward direction, a plurality of one-way gates pivotally suspended in said runway adjacent to said pockets and normally closed by gravitational control, means to permit said gates to yield to the force of said ball when driven upwardly and to resist it on return, a ball starting compartment member tangentially communicative with said runway at its lower termination, a tee in said compartment having the ball mounted thereupon and a plunger alined with said tee and adapted to be struck by an instrument to impart momentum to the ball, and a spring for returning said plunger to normal position.

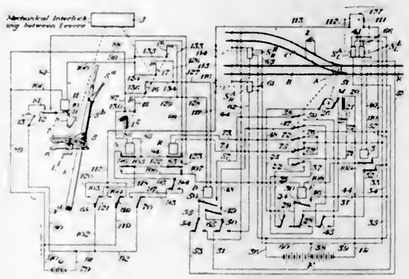
1,380,451. TELEPHONE-EXCHANGE SYSTEM. RAY S. WILBUR, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 13, 1918. Serial No. 234,347. 7 Claims. (Cl. 179—50.)

7. In a telephone exchange system, a trunk circuit, a relay at one end of the trunk circuit adapted to successively open its contacts upon its release, a signal at the other end of the trunk circuit, and means controlled by



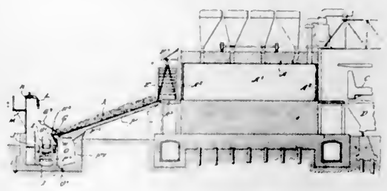
the successve opening of the contacts of the relay to cause the continuous operation of the signal.

1,380,452. APPARATUS FOR THE CONTROL OF RAILWAY SWITCHES AND SIGNALS. PAUL F. WILLARD, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 1, 1920. Serial No. 378,235. 11 Claims. (Cl. 246—135.)



1. Railway traffic controlling apparatus comprising a lever having normal and reverse positions, a railway switch having normal and reverse positions, an indication relay controlled by said switch and energized in normal or reverse direction according as the switch is in normal or reverse position and deënergized when the switch is between said two positions, a neutral relay, means for energizing said neutral relay when said indication relay is deënergized, means for holding said neutral relay energized when the indication relay is energized in normal direction and said lever is in normal position, also when the indication relay is energized in reverse direction and the lever is in reverse position, and means for controlling said switch by said lever and by said two relays.

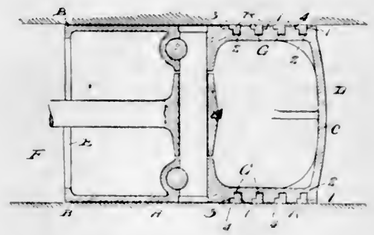
1,380,453. COKE QUENCHING AND HANDLING APPARATUS. LOUIS WILPUTTE, New Rochelle, N. Y., assignor of two-thirds to Alice A. Wilputte, New Rochelle, N. Y. Filed Feb. 6, 1920. Serial No. 356,622. 6 Claims. (Cl. 202—11.)



1. The combination with an inclined coke quenching wharf of a wall adjacent the lower edge of the wharf,

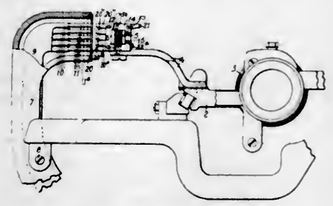
but separated therefrom by a slot like space, gate members movable into and out of the position in which they prevent coke from sliding off the wharf, and bridge members movable from one position in which they form extensions of the wharf projecting beyond said wall into a second position in which they permit the ready passage of excess quenching water running off said wharf through said space.

1,380,454. COMBINED PISTON AND PACKING-RING. JOHN T. WILSON, Alameda, Calif. Filed Apr. 7, 1919. Serial No. 288,040. 1 Claim. (Cl. 74—109.)



The combination with a cylinder and a piston having a circumferential groove wider adjacent the exterior surface of the piston than at the bottom, the greatest depth of said groove being adjacent the explosion chamber, of a single cut resilient expansible flanged packing ring of a shape in cross section matching and loosely fitting the groove and its entire exterior surface frictionally engaging the interior surface of the cylinder, and a joint member excluding explosion and charge compression pressure from the flanged portion of the ring, but admitting atmospheric pressure to the entire under surface of the ring while the explosive charge is being drawn into the explosion chamber, said groove in the piston when the packing ring is in place being entirely closed as far as possible to the entrance of gas under pressure to the space beneath the packing ring.

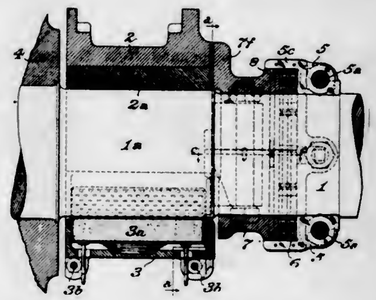
1,380,455. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 3, 1920. Serial No. 349,192. 9 Claims. (Cl. 192—70.)



1. In a typewriter machine, the combination of a series of key controlled stops each having its contact movable only in a single fixed unvariable path, and a series of counter stops provided with two series of engaging members or arresting portions one series arranged for column selection and the other arranged for column-to-column work only, all of said members of the column-to-column series coacting with the contact on a single one only of said key controlled stops for column-to-column work, and the said members of the other series each coacting only with the contact of its own individual key controlled stop for column selection work.

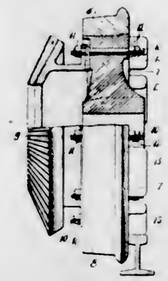
9. In a typewriting machine, the combination of a carriage having a column-stop support, a set of reversible duplex column stops thereon, one side of said set of stops having a series of contacts in stepped arrangement and the other side of said set of stops having contacts all arranged in a single straight row, a set of key controlled column stops adapted to coöperate with either the series of stepped contacts or the series of straight row contacts, according to which series of contacts is adjusted to coact with the key controlled stops.

1,380,456. LATERAL-THRUST-BEARING APPLIANCE FOR RAILROAD-AXLES. WILLIAM E. WOODARD, Lima, Ohio. Filed Mar. 15, 1919. Serial No. 282,798. 4 Claims. (Cl. 64—35.)



1. In a lateral thrust bearing appliance for railroad axles, the combination of an axle; an axle bearing box fitted thereon with the capacity of relative longitudinal movement; a lubricant cellar coupled to said box; a bearing collar fixed on the axle; and a transmission ring mounted on the axle between the axle bearing box and the bearing collar composed of two parts, the part nearest the cellar being cut away relative to the other part to afford access to the cellar without removal of the ring.

1,380,457. DRIVING-WHEEL CENTER. WILLIAM E. WOODARD, Forest Hills, N. Y., and HERBERT W. SNYDER, Lima, Ohio. Filed May 4, 1920. Serial No. 378,752. 3 Claims. (Cl. 295—5.)

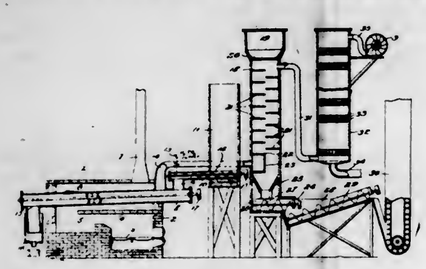


1. A driver for gear driven locomotives having means projecting laterally from the inner face thereof for protecting the rim bolts in case of derailment.

1,380,458. PROCESS FOR PURIFYING GRAPHITE AND CARBON. CHARLES W. WOODRUFF and ROBERT H. PAUSCH, Columbus, Ohio. Filed May 25, 1920. Serial No. 384,122. 3 Claims. (Cl. 252.)

3. The process of purifying graphite or carbon bearing material, which consists in generating gaseous hydrogen

fluorid, and in bringing the vapors thereof into intimate contact with a body of said graphite bearing material



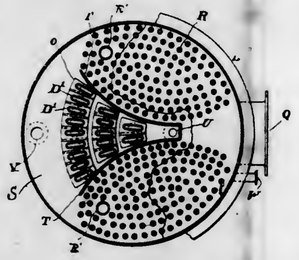
and washing soluble compounds from the material so treated.

1,380,459. TIE-CLASP. EDWARD R. YOUNGS, Miami, Fla. Filed Aug. 25, 1920. Serial No. 405,786. 1 Claim. (Cl. 24—85.)



A tie holder comprising a clasp for engaging the shirt, a closed loop member having a part rigidly connected with the clasp and a safety pin for engaging the depending part of the tie and said loop member.

1,380,460. METHOD AND APPARATUS FOR DEVAPORIZING AND COOLING. PAUL A. BANCEL, Nutley, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 5, 1920. Serial No. 386,766. 14 Claims. (Cl. 257—51.)



1. The method, substantially as herein described, of devaporizing and cooling a flowing mixture of condensable vapor and gas, which consists in passing said mixture over relatively cold surfaces and retarding the flow of the mixture at points between said surfaces remote from the surfaces themselves, thereby securing a higher proportionate condensation and preventing the withdrawal of a large proportion of uncondensed vapor.

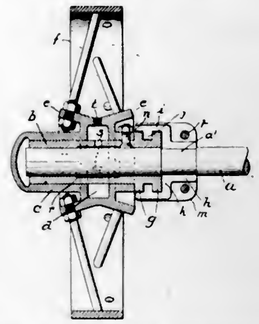
1,380,461. FUSE-PLUG. WILLARD R. BENNINGTON, Xenia, Ohio. Filed Oct. 13, 1919. Serial No. 330,286. 7 Claims. (Cl. 200—130.)

1. In a fuse plug, a metallic jacket, separate insulating elements connected in spaced relation by said jacket, one of the insulating elements having a central opening therein, and transversely arranged fuse link interposed between the insulating elements having its opposite ends elec-



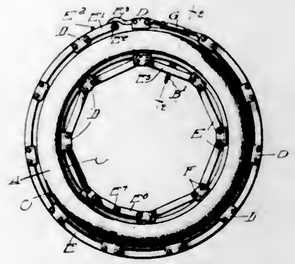
trically connected with the jacket the medial portion of the fuse link being exposed through the central opening in one of the insulating elements.

1,380,462. WHEEL-MOUNTING. EARL E. BERRY, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed Mar. 6, 1919. Serial No. 280,972. 1 Claim. (Cl. 301—122.)



In a vehicle wheel mounting, the combination with a cylindrical axle, of a long hub member rotatably mounted thereon, said hub member having an annular groove in its periphery near the inner end, there being an annular groove in the periphery of the axle near the inner end of the hub member, a split dust guard and hub retainer bolts for clamping the guard about the axle and within the groove in the axle to restrain said guard from rotary and endwise movement in either direction along the axle, and an annular flange in the guard seated in the groove of the hub member for retaining said hub member in position on the axle.

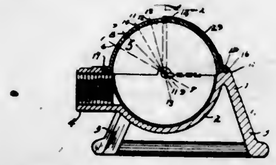
1,380,463. VULCANIZING APPARATUS. GEORGE W. BULLEY, Chicago, Ill. Filed June 10, 1916. Serial No. 102,868. 11 Claims. (Cl. 18—35.)



1. In a tire vulcanizing mold, the combination of a hollow annular, imperforate shell of uniform thickness cross-sectionally, said shell being divided circumferentially

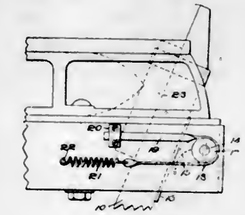
into two separable sections, inner and outer flanges outstanding from said sections, and inner and outer flexible clamping members having clamps engaging said flanges at intervals around their circumferences.

1,380,464. LAWN-SPRINKLER. CHARLES E. BROOKS, Minneapolis, Minn. Filed Feb. 15, 1919. Serial No. 277,688. 1 Claim. (Cl. 299—19.)



In a lawn sprinkler the combination of a base, a bowl of general hemispherical shape projecting upwardly therefrom and having a series of apertures therein, an inner shell of general hemispherical shape, but having a portion thereof cut away, positioned within said bowl and journaled therein to allow rotation therewith so as to shut off a greater or lesser portion of the apertures of said bowl, and an outer shell of general quarter-spherical shape hinged to said base and adapted to shut off substantially half of the apertures of said bowl when swung against the outer surface of said bowl.

1,380,465. PICKER-CHECK MEANS FOR LOOMS. LOUIS S. BURBANK, Ludlow, Mass., assignor to Ludlow Manufacturing Associates. Original application filed Nov. 23, 1917, Serial No. 203,497. Divided and this application filed Jan. 31, 1919. Serial No. 274,293. 10 Claims. (Cl. 139—22.)



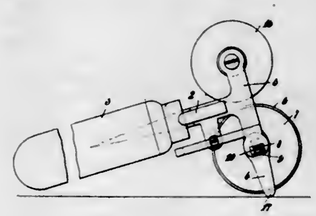
1. Picking mechanism for looms comprising in combination, a picker stick and a frictional resistance therefor including a shaft having a cam, a strap passing about said shaft, and a spring engaging said strap, said picker stick being adapted to engage said cam.

1,380,466. DRAWERS-SUPPORTER. JOHN H. BUSTER, Marysville, Calif. Filed May 15, 1920. Serial No. 381,718. 1 Claim. (Cl. 24—84.)



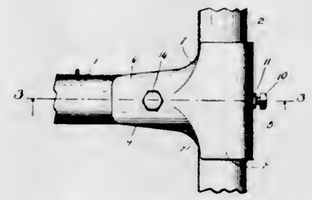
A garment supporter comprising a spring hook adapted to pass over and frictionally engage one edge of a garment, and a pair of arms integral with the hook and between which another garment may be passed, one arm having an opening therein to receive a portion of the garment and the other arm having a portion extending laterally therefrom at its end adapted to pass into the garment receiving opening in the other arm to secure the garment thereto.

1,380,467. HAND INKING-ROLLER FOR INKING CLICHÉS. JEAN DOREL, Ville D'Avray, France. Filed Feb. 25, 1920. Serial No. 361,328. 8 Claims. (Cl. 91—48.)



1. Apparatus for inking cliches by hand, comprising in combination a frame having a handle and carrying two superposed rollers, a pivoted operating bar on the frame engaging the ends of the journals of the upper roller and causing, when actuated, this upper roller to be moved vertically out of contact with the lower roller, substantially as described.

1,380,468. COUPLING. HERBERT H. DREW, Waterloo, Wis. Filed Nov. 29, 1918. Serial No. 264,558. 1 Claim. (Cl. 287—54.)

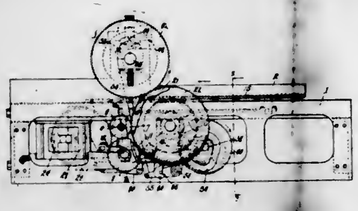


A coupling of the class described formed from a single piece of sheet metal bent upon itself, the portion of the piece adjacent the bend being transversely substantially cylindrical to receive a section of cylindrical piping, the free end portions of the piece being longitudinally substantially semi-cylindrical with their concave sides toward each other to provide a socket for the reception of the end of a second section of cylindrical piping, said cylindrical portion of the piece having an aperture, a bushing extending through said aperture and loosely mounted therein, a flange on the inner end of said bushing between the cylindrical portion and said section of cylindrical piping, said flange being curved to conform to the curvature of the latter to prevent rotation of the same, a set bolt adjustable in said bushing and movable toward and into engagement with the first mentioned section of cylindrical piping, and means for holding the free end portions of the piece against spreading apart.

1,380,469. PRINTING-PRESS. MICHAEL A. DROITCOUR, Delphos, Ohio. Original application filed Apr. 11, 1917, Serial No. 161,338. Divided and this application filed Dec. 12, 1917. Serial No. 206,754. 2 Claims. (Cl. 101—284.)

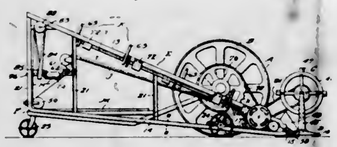
2. In a printing press, an impression cylinder; a rotatable cam; a rocker arm actuated by said cam; a second rocker arm having a stud; means controlled by said second rocker arm to move said cylinder on and off impression; a catch pivotally hung on said first rocker arm and releasably engaged with said stud to lock the rocker arms together, said catch having a cam surface; an impression trip lever, a trip member pivotally mounted on said lever and adapted to be positioned thereby against

the cam surface of said catch; and a cam member moving with said cam adapted to engage said trip-member and



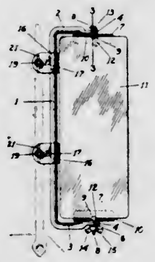
cause it to forme the catch out of engagement with said stud when the trip lever is shifted to tripping position, and the cam reaches a predetermined point in its revolution.

1,380,470. SEED THRESHING AND COLLECTING MACHINE. JULIUS C. FORD, Summit, Miss. Filed Mar. 22, 1919. Serial No. 284,398. 16 Claims. (Cl. 56—123.)



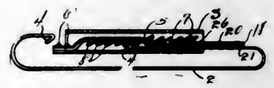
1. In a seed harvesting machine, the combination, of cutting apparatus adapted to be advanced over the field and sever the plant growth from the stubble, a sieve-like conveyer in close proximity to and at the rear of said cutting apparatus upon which the severed plant growths fall for supporting and conveying the plant growths from the cutting apparatus, and a conveyer beneath said sieve-like conveyer and in close proximity to said cutting apparatus for supporting and conveying seed which passes through said sieve-like conveyer from adjacent said cutting apparatus.

1,380,471. DRAFT-DEFLECTOR FOR MOTOR-VEHICLES. MARSHALL E. FRANCISCO, Fresno, Calif., assignor, by mesne assignments, of one-half to Louis W. Darden and Andrew O. Wilson, Fresno, Calif. Filed Oct. 4, 1919. Serial No. 328,540. 3 Claims. (Cl. 296—84.)



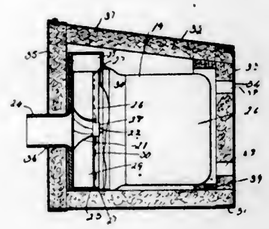
2. A draft deflector for automobiles comprising a frame having horizontal arms, a glass panel between the arms, horizontally grooved members pivoted at the outer ends of the arms and arranged to support the panel and prevent sliding movement thereof, one of such grooved members being permanently mounted in its arm, a bolt attached to the other grooved member and projecting through the corresponding arm, the latter being slotted to its outer end, and means whereby said bolt cannot normally slide in the slotted arm.

1,380,472. STRAP BINDER OR LOCK AND RECORD-CHECK. AMOS A. GLISSON, Fort Worth, Tex. Filed Sept. 27, 1920. Serial No. 412,934. 6 Claims. (Cl. 24—17.)



1. A tubular locking device having a bar secured therein and provided with yielding locking members and a band provided with yielding hooks thereon to engage the locking members within said tubular device.

1,380,473. SUCTION ATTACHMENT FOR PLAYER-PIANO MECHANISM. ROBERT A. GUARNIERY, Philadelphia, Pa., assignor to Graeber Vacuum Piano-Player Attachment Company, Inc., a Corporation of Delaware. Filed Nov. 30, 1917. Serial No. 204,758. 3 Claims. (Cl. 230—11.)

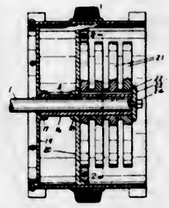


1. In a suction producing device the combination of a container inclosed at the front and having an opening at the back, an air inlet in the front of the container, an electric motor in the rear portion of the container, a fan casing mounted directly upon the casing of the motor at the front of the container and forming a continuation of the motor casing and having a reduced air inlet opening in its front wall, and a plurality of rotary fan blades operating within the fan casing and actuated by the motor.

2. In a suction producing device, the combination of a container inclosed at the front and having an opening at the back, an air inlet in the front of the container, an electric motor in the rear portion of the container, a fan casing mounted directly upon the casing of the motor and forming an enlarged continuation of the motor casing and having a reduced air inlet opening in its front wall, said air inlet opening being in line with the shaft of the motor and a plurality of rotary fan blades mounted on the motor shaft and actuated by the same.

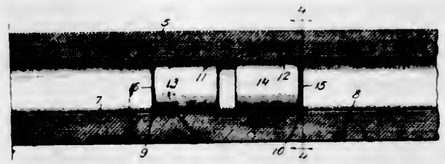
3. In a suction producing device the combination of a container inclosed at the front and having an opening at the back, an air inlet in the front of the container, an electric motor in the rear portion of the container, a fan casing mounted directly upon the casing of the motor at the front of the container and forming a continuation of the motor casing and having a reduced air inlet opening in its front wall, and a plurality of rotary fan blades operating within the fan casing and actuated by the motor, and a cushioning ring of sound deadening material surrounding the motor and cushioning the same and the fan housing and rotary blades.

1,380,474. TRACTION-WHEEL. EDMUND E. HANS, Detroit, Mich. Filed Nov. 26, 1919. Serial No. 340,825. 5 Claims. (Cl. 301—38.)



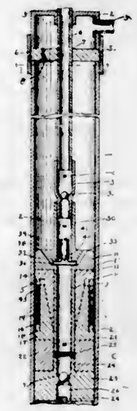
1. In a traction wheel, the combination with an axle, of a hub keyed to said axle, a rim, spoke members connecting said hub and rim, the outer spoke member being arranged in a spaced relation relative to the outer ends of the hub and rim, and circular weighting disks keyed upon said hub at the outer side of its outer web, said disks being removable to permit a variation in the number or the substitution of others to vary the weight.

1,380,475. ROLL AND PACKAGE. OTTO A. HEPPES, La Grange, Ill. Filed Sept. 6, 1918. Serial No. 252,839. 8 Claims. (Cl. 206—47.)



1. In combination with a convolved roll of sheet material having an axial opening; a carton container therein comprising an unsegregated strip attached to one end of the sheet, of a width not greater than the diameter of the carton, extending over the ends and sides of the carton, or cartons and in engagement with the inner convolution of the roll.

1,380,476. PUMP. GRANVILLE A. HUMASON, Houston, Tex. Filed Jan. 20, 1920, Serial No. 352,660. Renewed Dec. 4, 1920. Serial No. 428,380. 5 Claims. (Cl. 103—63.)



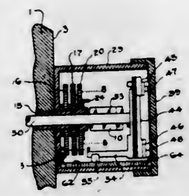
1. In a pump, a working barrel, a plunger reciprocable therein, said plunger comprising a tubular member, a conical sleeve thereon, a longitudinally divided expanding sleeve fitting on said conical sleeve, said expanding sleeve being recessed on its outer face and provided with a series of split rings and means between said rings and said sleeves in the upper and lower ends thereof to normally prevent the movement of said sleeves toward each other and means to expand said expanding sleeves and said rings when desired.

1,380,477. HEEL-SUPPORT. CARL B. IMRIE, New York, N. Y. Filed Jan. 14, 1920. Serial No. 351,477. 9 Claims. (Cl. 36—37.)



1. A heel support comprising a pad or cushion having its bottom surface substantially flat and its top surface substantially flat at its rearward portion and sloping transversely at its forward portion.

1,380,478. AUTO-LOCK. ROBERT F. INGERSOLL, deceased, by Jessie B. Ingersoll, special administratrix, Kellogg, Idaho, assignor to T. S. Ingersoll, San Francisco, Calif. Filed Mar. 22, 1920. Serial No. 367,798. 3 Claims. (Cl. 200—45.)

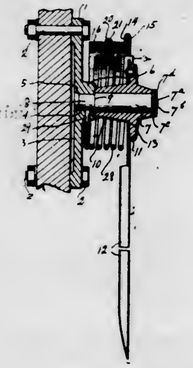


1. A lock switch comprising a casing, permutation disks in said casing, each disk being provided with a recess, means for operating said disks to aline said recesses, diametrically opposed contacts in said casing, a reciprocable and rotatable shaft concentric with said disks and operating means therefor, a crosshead carried by said shaft comprising a conducting portion insulated from the shaft, lugs on the bottom of said casing, a spring normally holding said crosshead between said lugs to prevent rotation thereof and of the shaft, a lug carried by said crosshead and normally engaging said disks to prevent reciprocation of said shaft but positioned to enter said recesses when said recesses are properly alined, whereupon said shaft and crosshead may be reciprocated to move said crosshead above the plane of said contacts, rotated to bring said crosshead directly over said contacts, and released to permit said crosshead to engage said contacts.

1,380,479. DIRECTION SIGNAL OR INDICATOR. SIGMUND JANSON, Detroit, Mich. Filed Nov. 10, 1920. Serial No. 423,125. 3 Claims. (Cl. 116—52.)

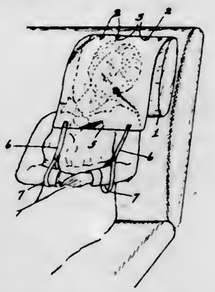
1. In a direction indicator, a supporting plate having a spindle, a sleeve rotatably mounted on the spindle and provided with an annular flange, an indicator engaged with the sleeve and secured to the annular flange, a coiled spring surrounding the sleeve and having one end connected to the indicator, its other end to the plate, cooperating with and tensioning with the sleeve to hold the indicator, whereby the indicator may move to a downward inclined position under the action of the spring to signal a turn to the right, a guard carried by the indicator and housing the spring, a rotating guide on the plate, and

a pull medium engaging the rotating guide and connected to the guard, whereby the indicator may be moved from



its downward inclined position to an intermediate or slow down position, or to an upward inclined position indicating a left hand turn.

1,380,480. PILLOW-CASE. JOHN C. JENNINGS, Kansas City, Kans. Filed Sept. 27, 1920. Serial No. 412,957. 2 Claims. (Cl. 5—15.)



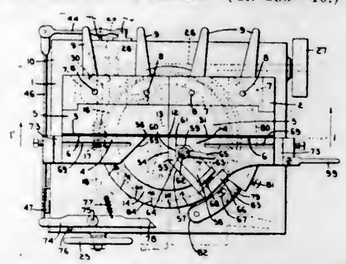
1. A pillow case having an extension adapted to overlap the front side of the pillow case and cover the face of a person resting against the pillow, tapes attached at their upper ends to the extension and fastening means at the lower ends of the tapes adapted to be anchored to hold the extension in operative position.

1,380,481. CUP. RAY JENNINGS, La Grange, Mo. Filed Mar. 11, 1921. Serial No. 451,472. 3 Claims. (Cl. 65—58.)



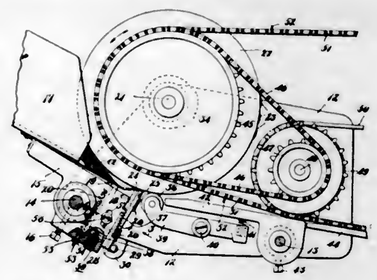
1. A device of the character described comprising a tumbler, a member adapted to fit tightly over the open upper end of the tumbler and to extend thereabove, said member having a transverse partition abutting the upper end of said tumbler so as to provide a closure therefor, said partition being formed with an opening therethrough, and means carried by said member for controlling the flow of the liquid from said tumbler through said opening in the partition.

1,380,482. MACHINE FOR BENDING ANGLE-IRON. JOHN KARPOUICH, Boston, Mass. Filed Oct. 19, 1918. Serial No. 258,791. 4 Claims. (Cl. 153—40.)



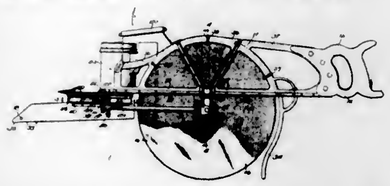
4. In a machine for bending metal, the combination with a frame, of a work-holding member fixed thereto, a second work-holding member mounted thereon to turn about a vertical axis, each work-holding member being recessed in its upper face, a clamping member received in each recess and adapted to clamp the work between it and one wall of the recess, each work-holding member also having a plurality of recesses in its side communicating with the first named recess and cams pivoted in the recesses and acting against the clamping member.

1,380,483. BLANK-FEEDER. LEON E. LA BOMBARD, Chelsea, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1917. Serial No. 206,383. 10 Claims. (Cl. 271—36.)



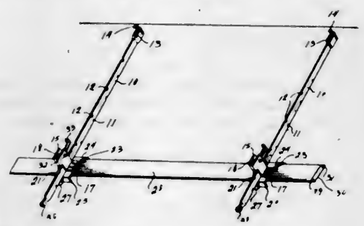
1. A blank feeder comprising a feed wheel, a hopper for blanks, a fixed gage having its tip located to permit the passage of blanks singly between it and said wheel and having its rear face adjacent the tip substantially radial with respect to the wheel, and a guide for directing the blanks to position to be acted upon by the wheel, the delivery end of said guide terminating close to said gage and yieldingly movable toward and away from said wheel.

1,380,484. PORTABLE ELECTRIC SAW. DAVID C. LANGE, College Station, Tex. Filed Jan. 5, 1920. Serial No. 349,608. 4 Claims. (Cl. 143—43.)



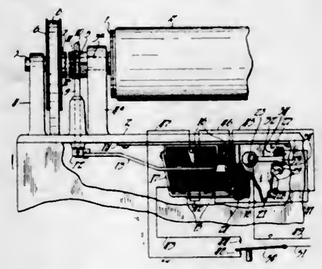
1. A portable electric saw comprising a frame, a handle at one end of the frame, an electric motor carried by the opposite end of the frame, a second handle near said motor, a circular saw rotatably mounted between said handles, means connected with the motor for rotating the saw, and a pivoted guard member carried by the frame in the rear of the circular saw and arranged to be gradually moved about its pivot into inoperative position upon contact with the work engaged and continued operation of the saw blade.

1,380,485. SHINGLING STRAIGHT-EDGE. AUGUST R. LANGEBERG, Dell Rapids, S. D. Filed Oct. 6, 1920. Serial No. 415,062. 4 Claims. (Cl. 33—188.)



2. In a device of the type described, a pair of notched bars, a straight edge, brackets carried by said straight edge and embodying portions adapted to engage in the notches of said bars, said straight edge being provided upon the under surface thereof with a protecting strip of metal, said strip of metal projecting slightly beyond the upper edge of said straight edge.

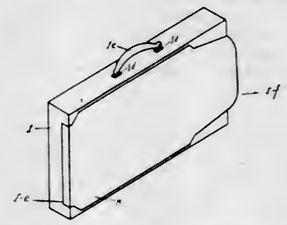
1,380,486. CONTROLLING DEVICE. SAM G. LANGLEY, Maplewood, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Apr. 18, 1919. Serial No. 291,009. 16 Claims. (Cl. 200—98.)



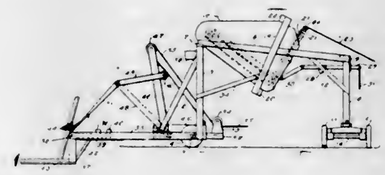
1. In a device of the character described, a movable member, electro-magnets having independently mounted armatures for controlling said member and a switch comprising a movable contact mounted independently of said armatures and adapted to be controlled thereby to control the circuits of said electro-magnets, substantially as described.

1,380,487. CHIROPRACTIC TABLE. CARL T. LINDHOLM, Davenport, Iowa. Filed Feb. 19, 1920. Serial No. 359,934. 7 Claims. (Cl. 45—50.)

2. A chiropractic table having a head member capable of conformable attachment engagingly within the end, side and corner portions of a suitcase member, each member having at either end a pair of legs supported by brace means, transversely secured thereto by hinge means in such manner as to fold flatly, inwardly, disengagingly disposed to each other, in such manner that when one member is attached engagingly within the other, their respective leg and brace attachments comformably repose upon each other forming spring means; means provided on said members for securing them together when engagingly attached, handle means attached to one of said members for carrying the same when the parts are engagingly attached.

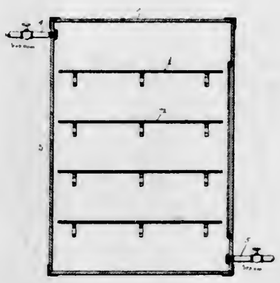


1,380,488. DIRT-LOADING MACHINE. JOHN EDWIN LONG, Havelock, Nebr. Filed May 9, 1919. Serial No. 295,930. 3 Claims. (Cl. 214—149.)



1. In a device of the class described, a first frame; a hopper mounted on the frame; a belt conveyer forming a bottom for the hopper; a second frame pivoted to the first frame for vertical swinging movement; a platform on the second frame and discharging on the conveyer in the general direction of travel of the conveyer when the second frame is swung upwardly and rearwardly; means for swinging the second frame upwardly and rearwardly; and means for stopping the upward and rearward movement of the second frame whereby the material on the platform will be discharged on the conveyer and facilitate the movement of the conveyer.

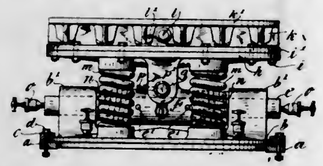
1,380,489. METHOD OF PRODUCING FOODSTUFFS. WHARTON B. MCLAUGHLIN, New York, N. Y. Filed Oct. 17, 1917, Serial No. 197,162. Renewed Nov. 5, 1920. Serial No. 422,077. 1 Claim. (Cl. 99—8.)



The method of packing vegetables of high water content so as to reduce their bulk which consists in partially

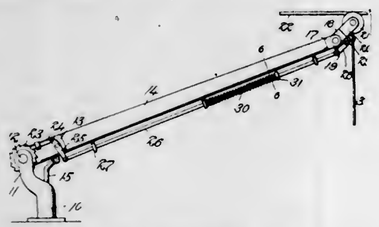
dehydrating the vegetables to remove the greater portion of the contained water while leaving sufficient water in the vegetables to constitute at least 30% by weight of the partially dehydrated vegetable, then packing the vegetables in containers, exhausting the air from the containers and the contents, then subjecting the contents while exhausted to the action of steam at a sterilizing temperature and hermetically sealing the containers while the contents are sterile.

1,380,490. TRAILER CONNECTION. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 28, 1919. Serial No. 320,340. 5 Claims. (Cl. 280—33.1.)



1. A connection for semi-trailers comprising in combination a ring carried on the tractor unit, a plate rotatably supported thereon, a universal joint comprising two shafts extending at right angles to each other mounted on the plate, a second plate constituting an element of the universal joint, means to connect the semi-trailer to the second plate, and equalizer springs operatively interposed in all the quadrants formed by said shafts between said plates to counteract the universal movements.

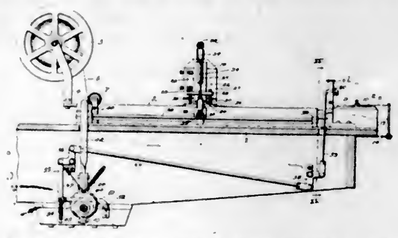
1,380,491. TROLLEY-POLE. JOSEPH J. MATTY, Glen Jean, W. Va. Filed May 9, 1917, Serial No. 167,563. Renewed Mar. 24, 1921. Serial No. 455,328. 1 Claim. (Cl. 191—95.)



In a trolley pole, the combination with a base carrying a ratchet wheel, the pole proper pivoted at its lower end to said base alongside the wheel, a lever pivoted to the pole, and a latch supported by the pole and moved by the lever into and out of engagement with said ratchet; of a sectional harp at the upper end of the pole comprising a stationary member fixed to the pole and a movable member pivoted to the stationary member and having a shoulder depending from its pivot for holding said members alined and also having a lug, a link pivoted to the lug and passing under said shoulder, a rod pivotally connected with the link below the shoulder and with said lever at the inner end of the pole, a spring between the pole and rod and bearing the latter normally upward, a fork swiveled to the movable member of the harp and carrying the trolley wheel, and a trolley rope depending from said fork.

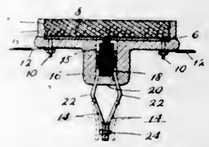
1,380,492. MACHINE FOR PUNCHING AND CUTTING TAPE. JOHN A. MOORE, Louisville, Ky., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed July 21, 1917. Serial No. 182,078. 5 Claims. (Cl. 164—15.)

1. In a machine for forming predetermined lengths of fish-tailed strips from a flexible tape of paper or cloth, the combination of means for holding a supply of such tape, a fixed blade beneath which the tape passes and against which it may be drawn laterally to sever the same; a gage located forward of and adjustable toward



and from the fixed blade; and a punch located to the rear of the blade and adjustable toward and from the same, said punch being so formed as to produce oppositely disposed fish-tailed ends.

1,380,493. AUTOMATIC CIRCUIT-BREAKER. PETER L. NISSEN, Kansas City, Mo., assignor to The United States Automatic Fire Alarm Company, a Corporation of Missouri. Filed Aug. 29, 1919. Serial No. 320,676. 2 Claims. (Cl. 200—142.)



1. In a device of the character described, an insulator having a transverse recess therein, a pair of oppositely-disposed conductors sealed within said recess, a pair of resilient contacts each having one end projecting from the insulator and its opposite end secured within said insulator and in permanent contact with its respective conductor, and fusible means to normally hold the outer ends of the contacts together, so that an electric current may pass from one conductor to the other through said contacts.

1,380,494. CASEIN-TUNG-OIL PRODUCT AND METHOD OF PRODUCING THE SAME. EARLE T. OAKES, New York, N. Y., assignor, by mesne assignments, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 19, 1920. Serial No. 352,544. 6 Claims. (Cl. 134—26.)

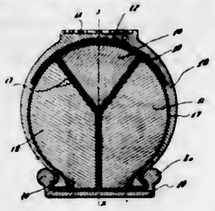
3. The process of producing a casein tung oil product, comprising, thoroughly mixing together in finely subdivided form a solidified casein product and gelatinized tung oil.

1,380,495. PULLEY. EDD C. OLIVER, Adrian, Mich. Filed Aug. 9, 1919. Serial No. 316,386. 7 Claims. (Cl. 254—197.)



1. A pulley comprising an inner and an outer ball race, a series of balls therebetween and a pair of circumferentially flanged plates secured in fixed relation with opposite sides of the inner ball race and extending about and spaced from the outer ball race, the plates being spaced at the periphery permitting the introduction of a cord or belt onto the outer ball race and forming a guide therefor.

1,380,496. AUTOMOBILE-TIRE. MICHAEL E. OSBORN and JOHN R. WOLLAM, Midland, Pa. Filed Oct. 8, 1920. Serial No. 415,617. 2 Claims. (Cl. 152—1.)



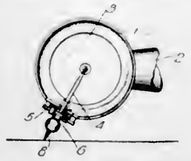
1. A resilient tire comprising a core formed of a plurality of circumferentially extending sections the outermost of which is triangular in cross section with its base curved to conform to the tread of the tire, the other sections having outer curved sides conforming to the transverse curvature of the tire and sides abutting the sides of the first section and each other throughout the lengths of said sides, and an inclosing shoe portion vulcanized to the curved sides of the sections and forming a part of the tire, the faces of the outermost section and the faces of the other sections which abut therewith emanating directly from the said shoe portion.

1,380,497. ADVERTISING DEVICE. WILLIAM MARK PALMER, Buffalo, N. Y. Filed Jan. 19, 1920. Serial No. 352,334. 7 Claims. (Cl. 40—139.)



1. An advertising device comprising a table rotatable about a substantially horizontal axis, means for rotating said table, a guideway arranged on the face of the said table and within the dimensional area thereof, and a slidable object movable by gravity on said guideway.

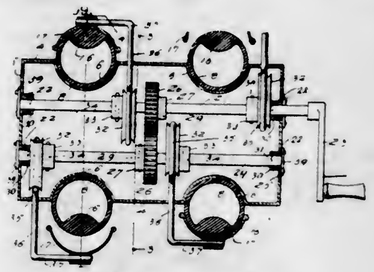
1,380,498. PHONOGRAPHIC REPRODUCER. LEWIS C. PETTITT, Chicago, Ill. Filed July 10, 1919. Serial No. 309,892. 3 Claims. (Cl. 181—32.)



2. A phonograph reproducer diaphragm formed of a malleable, springy, and fine grained magnesium alloy of aluminum.

1,380,499. MILKING-MACHINE. HENRY W. RINTELMAN, Cottonwood, S. D. Filed Apr. 21, 1920. Serial No. 375,627. 9 Claims. (Cl. 31—96.)

1. A milking machine comprising a casing, means supporting and attaching the casing in spaced relation and over a pail, nipples detachably secured to said casing and adapted to receive a cow's teats, and means for squeezing said nipples.



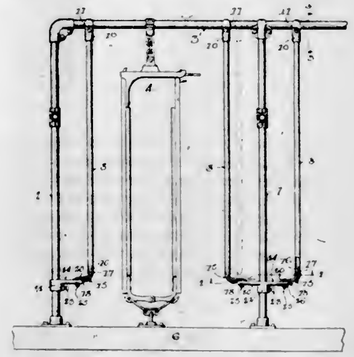
3. A milking machine comprising a casing having recesses, elastic nipples partially confined in said recesses, supports engaging said nipples and adjustably and yieldably connected to the casing, squeezing elements hinged to said supports and engaging the nipples, and means for actuating the squeezing elements.

5. A milking machine comprising a casing having recesses, elastic nipples partially confined in said recesses, semi-circular flanges formed on the upper ends of the nipples, substantially U-shaped supports engaging the nipples under the flanges and adjustably and yieldably secured to the casing, squeezing means carried by said supports, and means for actuating said squeezing means.

7. A milking machine comprising a casing having recesses, elastic nipples partially confined in said recesses, supports securing the nipples to said casing, plates hinged to said supports and curved to conform to the contour of the nipples and extending lengthwise of the latter, and means connected to said plates for causing said plates to squeeze the nipples.

9. A milking machine comprising a casing, nipples carried by said casing, means for squeezing said nipples, a pair of supports adjustably secured to said casing and each including a single length of wire bent upon itself to form a handle, the ends of said handle being bent to form clamps adapted to engage the edge of a pail, the ends of said clamps being extended upwardly and inwardly in a plane with the handle and then disposed horizontally to form attaching arms that are adjustably secured to the casing.

1,380,500. ADJUSTABLE GUARD FOR STANCHION-SUPPORTING FRAMES. EMIL A. ROESELER, Juneau, Wis. Filed Nov. 5, 1919. Serial No. 335,794. 4 Claims. (Cl. 119—149.)



1. An adjustable guard for stanchion supporting frames having frame posts comprising a bracket rigidly con-

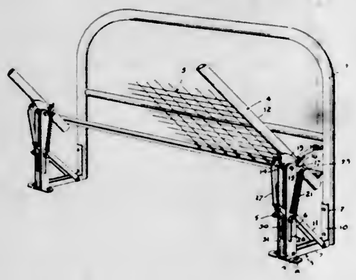
nected with, and carried solely by, one of the frame posts and provided with a laterally projecting arm; and a guard bar having its upper end connected with the frame and its lower end adjustably locked to said laterally projecting arm, whereby the lower portion of the structure is unobstructed by lower cross rods and whereby said guard bar may be moved directly outwardly or inwardly along said bracket and locked in any one of a plurality of positions of adjustment.

1,380,501. TIRE. RYUMATSU SERA, Los Angeles, Calif. Filed Sept. 13, 1920. Serial No. 409,782. 2 Claims. (Cl. 152—5.)



2. In a tire construction, in combination with a tire-casing, a strap of fabric, pads made of fabric, a filling of sawdust and cork disposed in the pads, the pads sewed to the strap in spaced relation one to the other, a second strap, a number of rubber blocks secured to the second-named strap in a similarly spaced relation as the pads on the first-named strap, the two straps disposed in the tire-casing so that the second-named strap with the rubber comes into a position to encircle the felly of a wheel when the casing is so disposed and bringing the second-named strap into a position as to encircle the first-named strap, the rubber blocks of the one strap located to engage between the pads of the other strap, the first-named strap having a width to engage the whole pads and the second-named strap with the rubber block overlapping over the first-named strap, and a filling of asbestos disposed between the pads and blocks and within the tire-casing.

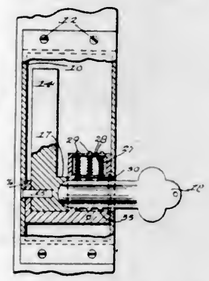
1,380,502. EXTENSIBLE BED. NEIL SINCLAIR, Oakland, Calif., assignor to The Rip Van Winkle Wall Bed Company, Oakland, Calif. Filed Nov. 1, 1920. Serial No. 421,015. 4 Claims. (Cl. 5—37.)



1. An extensible bed embodying in its construction a mounting, a mattress supporting frame pivoted upon the mounting, retractile springs secured at certain ends to the frame rearwardly of the pivot point thereof, means slidable upon said mounting with which the other ends of said springs are connected and a lever connected with said frame forwardly of the pivot point and at one end and at its other end secured to said means.

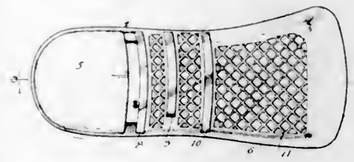
1,380,503. LOCK. DONALD P. SLIND, Ryley, Alberta, Canada. Filed Sept. 8, 1920. Serial No. 408,861. 4 Claims. (Cl. 70—47.)

2. In a lock of the character described, the combination of a casing adapted to be secured to a door, and having an opening in its side, a locking bolt pivotally secured within said casing and adapted to be swung through the opening in said side into a keeper in the jamb of the door, a stationary cylinder, a rotatable, recessed barrel within said cylinder provided with a key-hole, a block secured between the side walls of said casing and having an inner chamber, a predetermined number of springs



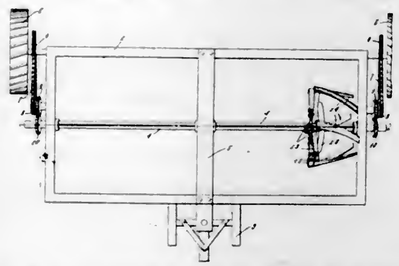
secured with their upper ends to the roof of said chamber and projecting with their lower ends to different depths into the recess of said barsel, a key provided with projections of a number and size corresponding to the number and size of the springs, said springs adapted to be engaged by corresponding higher or lower projections of said key when introduced through the key-hole.

1,380,504. ARCH-SUPPORT FOR THE FOOT. SOTER B. TUSIS, Chicago, Ill. Filed Jan. 24, 1920, Serial No. 353,672. Renewed Apr. 18, 1921. Serial No. 462,339. 4 Claims. (Cl. 36—71.)



1. An arch support for the foot, comprising a body portion having transverse grooves corresponding in position to the articulations of the foot whereby the foot will be supported mainly between the joints or articulations.

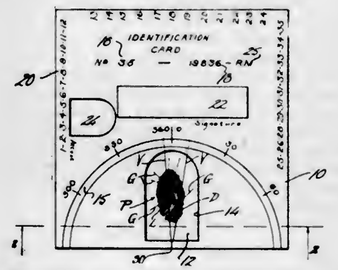
1,380,505. CULTIVATOR. OTTO O. UHLHORN, Lisbon, N. D. Filed Oct. 21, 1920. Serial No. 418,515. 1 Claim. (Cl. 55—61.)



A cultivator comprising a wheel supported structure, transverse shafts carried thereby and diverging downwardly and laterally, a plurality of cultivating units on each shaft, each of said units including spiral blades extending laterally toward the outer end of its shaft,

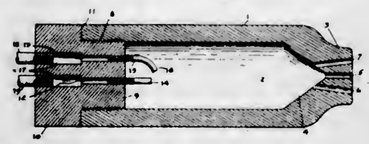
the blades of all of the units on each shaft coöperating to define a cone frustum and means for simultaneously rotating the shafts to move the lowermost blades of the cultivating units forwardly at a greater speed than the forward movement of the structure, each of said blades producing a shearing cut upon material in the path thereof.

1,380,506. FINGER-PRINT IDENTIFICATION-CARD AND METHOD OF PRODUCING SAME. JOHN P. S. VOGHT, Denver, Colo. Filed June 26, 1920. Serial No. 391,989. 10 Claims. (Cl. 41—26.)



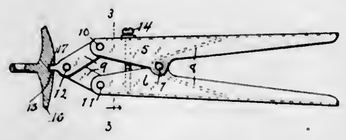
1. The method of producing finger prints and the like comprising the application of a chemical which will attack a metal to the finger, and pressing the finger upon a sheet of metal subject to attack by said chemical whereby a print is produced.

1,380,507. OIL-BURNER. CLYDE K. WALLACE, Oakland, Calif., assignor of one-half to Samuel H. Chambers, Oakland, Calif. Filed Mar. 13, 1920. Serial No. 365,446. 1 Claim. (Cl. 158—75.)



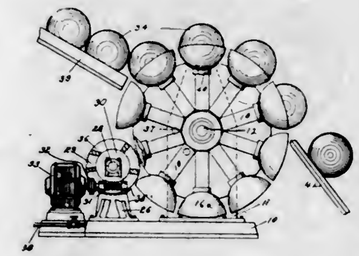
An oil burner embodying in its construction a one-piece tubular body portion closed except for small outlet passages at one end and having a screw threaded opening at its other end, a flanged plug having screw threads engaging with the screw threads of said opening, the flange of said plug being flush with the body, and means extending through the plug for discharging oil and an atomizing fluid into said body, said body being in conical form interiorly at the end thereof in which the outlet passages are provided, one of said outlet passages being in line with the apex of said conical portion and the other outlets being disposed on opposite sides of said apex, said body portion having a reduced tip portion through which portion the outlet passsages are formed.

1,380,508. VALVE-LIFTING TOOL. GEORGE W. WILSON, Los Angeles, Calif. Filed July 23, 1920. Serial No. 398,412. 2 Claims. (Cl. 29—86.3.)



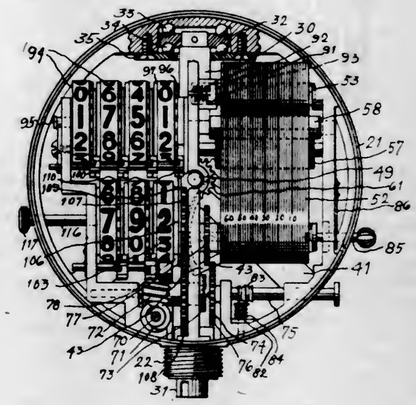
1. A valve lifter comprising a pair of handle members pivotally connected; lifting blades, having points for engaging the kerf of the valve pivotally connected to said handle members, said blades being connected at their other ends.

1,380,509. PRINTING-MACHINE. ANSEL S. WYSONG, Los Angeles, Calif. Filed Dec. 20, 1920. Serial No. 431,899. 4 Claims. (Cl. 101—35.)



1. In a printing machine for printing on fruit, type; means to place printing material on the type; means to carry fruit and type; and suction means to cause the fruit and type to engage, whereby the printing material on the type is transferred to the fruit.

1,380,510. INDICATING AND RECORDING SPEEDOMETER. KUZO YOSHINAGA, Los Angeles, Calif. Filed June 1, 1920. Serial No. 385,673. 3 Claims. (Cl. 234—5.)

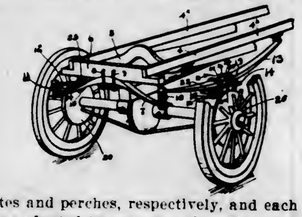


1. In a speedometer, the combination with a housing, of a vertically disposed rotary shaft mounted therein, distance recording means mounted therein, a train of gears whereby the rotary shaft actuates the distance recording means, centrifugally operated elements disposed on the rotary shaft, speed indicating elements actuated by the centrifugally operated elements, speed recording elements actuated by the movement of the speed indicating elements, speed recording elements actuated by the movement of the distance recording means, and clutch means to engage and disengage the last-named speed recording elements, said last-named speed recording elements coöperating with the first-named speed recording elements in the clutch engaging position.

1,380,511. PLATFORM-SPRING ATTACHMENT FOR MOTOR-VEHICLES. JOHN ZAPF, North Bend, Ohio. Filed Aug. 28, 1919. Serial No. 320,379. 6 Claims. (Cl. 280—106.5.)

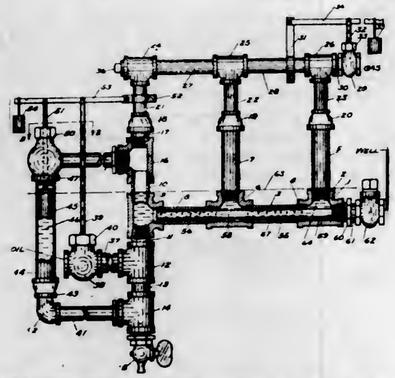
1. In a vehicle having a frame, a cross-spring attached to said frame, side springs attached at their ends to said frame and to the ends of the cross-spring, respectively, a

plate secured to and adapted to support each side spring, a perch for each side spring, a pivotal connection between



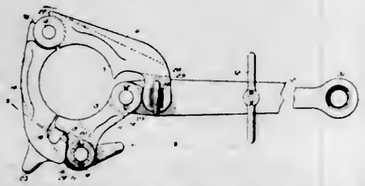
the plates and perches, respectively, and each plate having a bearing adapted to rest upon the adjacent perch.

1,380,512. EMULSION-PREVENTIVE. MICHAEL ZAPF and GEORGE ROBERTSON, Maricopa, Calif. Filed June 9, 1919. Serial No. 302,898. 1 Claim. (Cl. 183—39.)



In an apparatus for continuously separating gas from oil, a substantially tubular member, risers connected thereto, a tubular member connecting the upper ends of said risers and combining therewith to form a gas chamber, an automatically operating gas discharge valve connected to said gas chamber, an oil and gas supply pipe leading into the first mentioned tubular member, the external diameter of which supply pipe is slightly less than the internal diameter of said tubular member, the wall of said supply pipe being perforated at points between the lower ends of the risers, tubular connection between the first mentioned tubular member and the tubular member that connects the upper ends of the risers, and said tubular connection being provided with a valved outlet below the first mentioned tubular member.

1,380,513. WELL-CASING WRENCH. VICTOR W. ZILEN and RALPH E. FAIR, Chattanooga, Tenn., assignors to Lucey Manufacturing Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 2, 1920. Serial No. 400,819. 3 Claims. (Cl. 81—66.)



1. In a pipe wrench, the combination of an operating lever, a pair of gripping jaws pivotally connected to the operating lever, one of said jaws being formed of pivotally connected sections and having a handle formed thereon, and means for locking said jaws in closed position, said locking means comprising a catch formed on one jaw, a pivot pin carried by the other jaw, a latch pivotally mounted on said pin, and adapted to engage said catch, and a spring surrounding said pin and engaging the latch for yieldingly maintaining said latch in engagement with the catch and a handle formed on said latch.

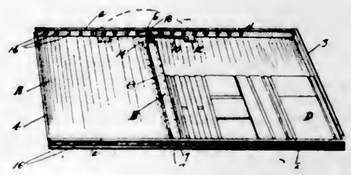
1,380,514. PROCESS FOR THE MANUFACTURE OF ZINC OXID DIRECT FROM OXIDIZED ZINC ORES. JOHN ALLINGHAM, Los Angeles, Calif. Filed Nov. 4, 1919. Serial No. 335,612. 1 Claim. (Cl. 134—78.)

The process of making zinc oxid direct from oxidized ores, which consists in subjecting such ore to the solvent action of a solution of sulfuric acid and sodium chlorid, separating the resulting solution from the residue, treating the solution to remove compounds of metals other than zinc, treating the solution with calcium hydroxid to precipitate zinc as hydroxid, subjecting the resulting precipitate in the presence of the solution to the action of carbon dioxid to produce zinc carbonate, separating the zinc carbonate from the solution, and drying and igniting the zinc carbonate.

1,380,515. PROCESS FOR THE MANUFACTURE OF ZINC OXID DIRECT FROM OXIDIZED ZINC ORES. JOHN ALLINGHAM, Los Angeles, Calif. Filed Nov. 12, 1919. Serial No. 337,555. 1 Claim. (Cl. 134—78.)

The process of making zinc oxid direct from oxidized ores, which consists in subjecting such ore to the solvent action of a solution of sulfuric acid and sodium chlorid, separating the resulting solution from the residue, treating the solution to remove compounds of metals other than zinc, treating the solution with trona to precipitate zinc as carbonate, separating the zinc carbonate from the solution, drying and igniting the zinc carbonate, treating the solution from which the zinc carbonate has been removed to recover sodium sulfate and adding part of such sodium sulfate to the solution produced in cyclic operation of the process by solvent action on the ore, to remove lime from such solution.

1,380,516. GALLEY DEVICE. ARTHUR D. AVERY, Los Angeles, Calif. Filed July 24, 1920. Serial No. 398,724. 13 Claims. (Cl. 276—43.)



2. In a galley device, the combination with a printer's galley having side walls formed with perforations, of rotatable means adjustably and removably held between the side walls and within the perforations thereof; said rotatable means having a part for engaging a form within the galley whereby upon a rotation of the galley device the form may be justified.

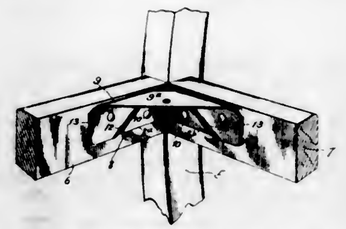
1,380,517. WELL-SCREEN CLEANER. SAMUEL F. BASHARA, Houston, Tex. Filed June 28, 1920. Serial No. 392,153. 10 Claims. (Cl. 166—20.)

1. In a cleaner for well screens, a perforated pipe, a tapered surface on said pipe having threads formed thereon, said threads being shallow and inclined sharply downward, a divided collar fitting on said tapered surface and having shallow interior threads formed to fit the threads



on said surface, and compressible means to hold the parts of said collar together..

1,380,518. BRACE AND CORNER-BLOCK FOR CHAIRS AND OTHER ARTICLES OF FURNITURE. DANIEL E. BELLIG, Montoursville, Pa. Filed Feb. 26, 1921. Serial No. 448,086. 2 Claims. (Cl. 45—48.)



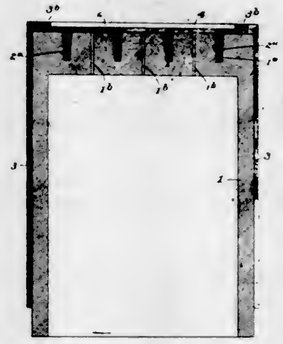
2. A combined corner brace and block composed of two metal sections one of which is bent into approximately V-shape and having inwardly bent or offset ends and the second section supported on said V-shape section and having bent ends resting within the recesses formed by offsetting the ends of the V-shaped section, the said section having alined screw holes for attaching them to the rails of a chair.

1,380,519. HOOK AND EYE. DUDLEY C. BENTON, San Diego, Calif. Filed Aug. 19, 1920. Serial No. 404,547. 3 Claims. (Cl. 24—228.)



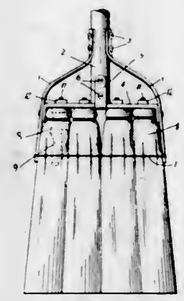
3. A hook and eye fastener, including a spring wire member folded intermediate its ends to a close bend, then spread slightly, diverging for some distance, then converging and crossing, then bent backwardly and formed into a loop for a support, and an eye member adapted to engage and pass over the closely bent point in U form provided with loops for supporting the same, each of said members being provided with short flattened bends at the points of engagement when hooked together.

1,380,520. HARD-RUBBER BATTERY-CELL AND PROCESS FOR MAKING SAME. RAYMOND H. BLANCHARD, Malden, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Apr. 20, 1920. Serial No. 375,223. 3 Claims. (Cl. 18—59.)



1. A hard rubber battery cell comprising a partially vulcanized bottom and cross bridges or ribs, and a cell wall vulcanized to said bottom.

1,380,521. BROOM. FRANK P. BLASINGAME, Canton, Tex. Filed Apr. 1, 1920. Serial No. 370,616. 1 Claim. (Cl. 15—19.)

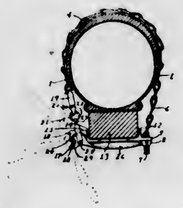


A broom comprising a handle, a frame consisting of two arms with their upper ends connected to the handle and curved obliquely dawnwardly and outwardly, a cross arm spanning the space between and connected to the arms and to the handle, a plurality of members spaced apart and removably secured to the cross arm, said members forming a supporting means or core for a sweeping element secured to each of the cores and forming the body or sweeping portion of the broom, and means for connecting the cores comprising the sweeping units together and to each lower end of the arms.

1,380,522. ANTISKID AND MUD-CHAINS. BRUCE E. BLISS, Wichita, Kans. Filed Aug. 31, 1920. Serial No. 407,092. 1 Claim. (Cl. 152—14.)

In combination in a device of the kind described, a rim-plate, a lever contacting said plate, fastening means tensioning the lever against said plate, other fastening means comprising a bolt passing freely through a hole in the rim-

plate, and a wing-nut on said bolt at the outer face of said plate; the free end of said lever being positioned so



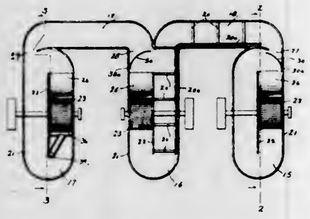
as to provide a latch to prevent full rotation of said wing-nut.

1,380,523. SPRING. CLARENCE A. BROCK, Detroit, Mich. Filed Feb. 5, 1917. Serial No. 146,605. 8 Claims. (Cl. 267—47.)



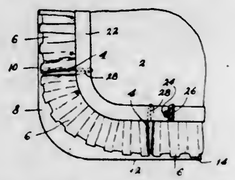
5. A spring comprising a series of leaves of equal length provided at their ends with spherical lugs, a shackle uniting the ends of said leaves composed of plates placed side by side and having recesses embracing said lugs.

1,380,524. PULP-PRODUCING APPARATUS. CHARLES J. BROWN, Tonawanda, N. Y., assignor of one-half to Louis C. Newman, Buffalo, N. Y. Filed July 5, 1918. Serial No. 243,394. 7 Claims. (Cl. 92—23.)



1. In a pulp producing apparatus, the combination of a plurality of beating tubs, channels connecting the tubs, each tub having its wall cut away at the point where it connects with one of the channels, and a screen arranged across the opening connecting the tub with the channel.

1,380,525. CAP, HAT, AND BONNET. MARY V. BRUNK, Kansas City, Mo. Filed July 3, 1920. Serial No. 393,916. 3 Claims. (Cl. 2—108.)



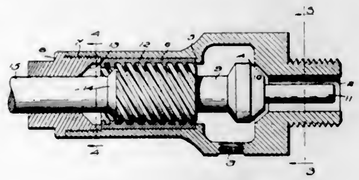
1. An article of the character described, consisting of a crown made from one piece of material adapted to be flattened out, a brim separable from said crown and consisting of one piece of material adapted to be flattened out, and a band secured at intervals to said brim to leave spaces for the passage of the margins of the crown so that the latter and the brim will be held in assembled position.

1,380,526. RETRIEVER FOR GOLF-BALLS. ARTHUR C. CARPENTER, Pasadena, Calif. Filed Mar. 16, 1920. Serial No. 366,336. 1 Claim. (Cl. 46—4.)



A retriever for golf balls comprising a handle having a reduced threaded end portion, an internally threaded ferrule seated on the threaded end of said handle, a pair of oppositely disposed curved arms formed integral with and projecting outwardly and downwardly from said ferrule and a ring formed integral with the lower ends of said arms, the internal diameter of which ring is slightly less than the diameter of an ordinary golf ball.

1,380,527. VALVE. ALVA BRUCE CARR, Bellevue, Alberta, Canada. Filed June 28, 1920. Serial No. 392,269. 2 Claims. (Cl. 251—36.)



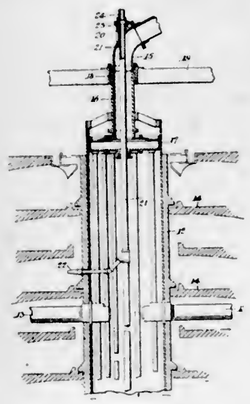
1. A valve comprising a casing, a valve seat arranged in the valve casing, an annular shoulder formed in the casing above the seat, an internally threaded cylindrical sleeve arranged thereon, means for securing said sleeve against rotation, a valve adapted to engage said valve seat, and a valve stem to which said valve is secured, a portion of said valve stem being threaded and adapted to engage the threads of said sleeve to permit opening and closing, said sleeve when released from said securing means being capable of rotation with said valve stem to grind said valve and valve seat, the sleeve securing means comprising a locking nut arranged in the end of the casing and surrounding the valve stem, said nut being adapted to engage the upper end of said sleeve to hold the sleeve stationary.

1,380,528. METHOD OF MAKING TIRE-MANDRELS. DON A. CLARK and CLYDE E. LOWE, Cleveland, Ohio, assignors, by mesne assignments, to The Republic Tool and Manufacturing Company, Cleveland, Ohio, a Corporation of Delaware. Filed July 31, 1919. Serial No. 314,551. 12 Claims. (Cl. 29—148.2.)



1. The process of making a pneumatic tire mandrel, which includes the steps of first forming a plurality of curvilinear sheet metal channel members, second arranging said members in circular form and butt welding them interiorly at their transverse margins, and afterward welding them together exteriorly at their longitudinal margins.

1,380,529. ORE-ROASTING FURNACE. HARRY ALLEN CLARK and JOHN FRANCIS HILL, Douglas, and ALEXANDER GRANT MCGREGOR, Warren, Ariz. Filed July 19, 1920. Serial No. 397,371. 4 Claims. (Cl. 263—26.)



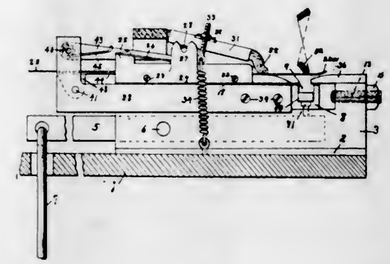
1. In a roasting furnace of the class described, the combination with a central hollow rotating shaft, of a burner mounted to rotate therewith and opening into the chamber of the furnace, and means for supplying fuel to said burner, said means comprising oil and air supply pipes within and rotating with said shaft, stationary oil and air supply pipes, and packed joints between said rotating and stationary pipes.

1,380,530. DENTAL-FLOSS HOLDER. THOMAS W. COOK, Berkeley, Calif. Filed June 14, 1918. Serial No. 239,914. 4 Claims. (Cl. 132—92.)



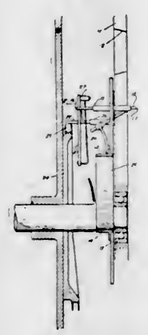
2. A dental floss holder including a handle, a bow on said handle, means on the handle for holding a spool of dental floss, a fork on the forward end of the bow for securing the forward end of the floss, said fork having an inner knife edge, and means for holding the floss taut across said bow.

1,380,531. WRAPPING-MACHINE. JASPER F. CULLIN, Detroit, Mich., assignor to William J. Hartwig, Detroit, Mich. Filed Oct. 8, 1920. Serial No. 415,554. 9 Claims. (Cl. 216—28.)



1. In a wrapping machine, the combination of a movable head having a groove into which cement covered paper may be pressed by the article to be wrapped, a plate under which the head may be moved to fold the loose end of the paper down on the article to be wrapped, a cutting device for the paper so positioned that the paper is severed when the head is moved under it, and by which the second end of the wrapping is pressed down.

1,380,532. EXPANDING CLAW FOR MOVING-PICTURE MACHINES. HARRY G. CUNNINGHAM, Los Angeles, Calif. Filed Sept. 4, 1920. Serial No. 408,135. 6 Claims. (Cl. 88—18.4.)

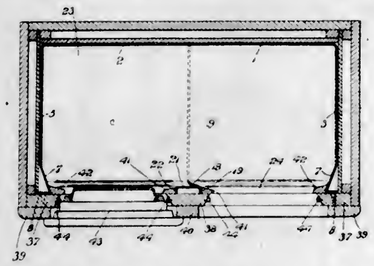


1. A claw mechanism for moving picture machines adapted for film with perforations, comprising in combination picker fingers having expansible tips, and means to expand the tips after their insertion in said perforations.

1,380,533. REFRIGERATOR. FRANK J. M. CURRAN, Grand Rapids, Mich. Filed Mar. 1, 1920. Serial No. 362,329. 7 Claims. (Cl. 217—5.)

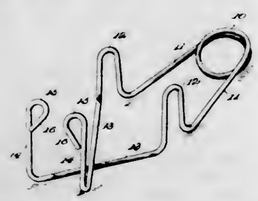
1. In a refrigerator, a lining comprising an L-shaped back having ends bent forward from the outer vertical edges thereof, a metal member having a vertical slit therein a short distance back of its front edge extending from its bottom edge to a height substantially equal to the horizontal part of the back, the portion of said member back of the slit being bent upwardly and outwardly to substantially horizontal position, said member being secured to

the back and shorter end of said first named portion of the lining, a bottom secured at the lower edges of said



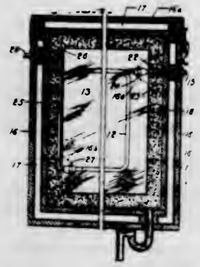
back and ends, and a top secured in place to complete the lining, leaving the front side open, substantially as described.

1,380,534. DISPLAY-HOLDER. LLOYD HENRY DALTON, Coffeyville, Kans. Filed Oct. 15, 1919. Serial No. 330,749. 1 Claim. (Cl. 211—24.)



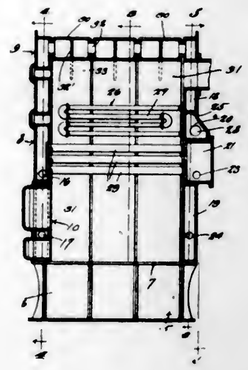
A display holder for neckties or other articles of merchandise piled one upon another consisting of a single strand of wire formed into a spring coil at its center, arms diverging from said coil, upstanding posts at the ends of said arms, crossed arms extending from said posts, jaws rising from the free ends of said crossed arms, and lateral shoulders on the inner sides of said jaws at the upper terminals of the same, the coil, the diverging arms and the crossed arms forming a base upon which the pile of articles may rest, the posts and jaws restraining the articles in the pile from displacement, and the shoulders on the jaws bearing upon the pile to yieldably hold the articles against withdrawal therefrom.

1,380,535. LIQUID-COOLING APPARATUS. GEORGE H. E. DAVIS, Lynn, Mass. Filed Nov. 11, 1919. Serial No. 337,337. 3 Claims. (Cl. 62—147.)



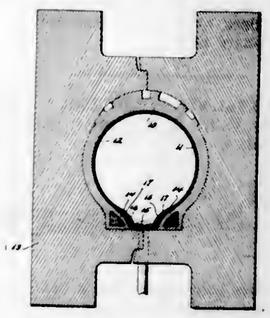
1. A liquid-cooling apparatus comprising a heat-insulating box adapted to be opened and to be closed practically air tight, terminal conduit members passing through, and supported by portions of the box, and provided within the box with coupling parts, and a portable cooling element formed for insertion in the box when the latter is opened, and insulated from external heat by the closing of the box, said element including an intermediate sinuous conduit member, provided at its ends with coupling parts complemental to, and coinciding with, the coupling parts on the said terminal members, and a block of ice incasing and contacting with the said intermediate conduit member between its coupling parts, the latter being exposed at the exterior of the block, so that the intermediate conduit member may be detachably secured to the terminal conduit members, after the insertion of the said portable element in the box, the said block constituting a cooling unit having surface portions interposed between the intermediate conduit and the internal surfaces of the box.

1,380,536. BOILER. SAMUEL S. DAVIS, Sidney, Ohio. Filed Aug. 8, 1919. Serial No. 316,129. 2 Claims. (Cl. 122—225.)



1. In a steam boiler construction, header sections, arch-shaped boiler sections disposed between, and in communication with the header sections, a partition disposed within each of the arch-shaped boiler sections, said partitions adapted to obstruct the passage of steam through the upper portions of the boiler sections, a reservoir forming a part of one of the header sections, and a plurality of super-imposed horizontal water tubes having communication with the reservoir.

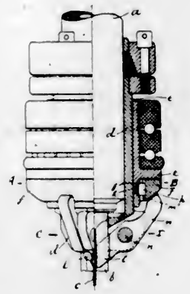
1,380,537. CORE FOR USE IN CURING PNEUMATIC TIRES. WALTER R. DENMAN, Cleveland, Ohio. Filed April 24, 1920. Serial No. 376,359. 9 Claims. (Cl. 18—45.)



1. A core for use in curing pneumatic tires comprising an air bag having a ring at its inner periphery, said ring comprising a base portion of uniform diameter and

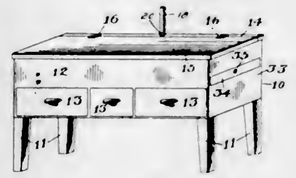
a pair of spaced outwardly projecting flanges, said flanges diverging outwardly and being spaced and shaped to provide outer surfaces between which and the mold the beads are formed.

1,380,538. WIRE-FEED MECHANISM OF SCREWING-MACHINES. MARK THOMAS DENNE, Rushden, England. Filed Oct. 22, 1919. Serial No. 332,550. 3 Claims. (Cl. 1—26.)



1. Wire feed mechanism for screwing machines, comprising in combination a hollow spindle through which the wire passes axially, a gripper carrier adapted to be reciprocated longitudinally of the said spindle, a plurality of grippers mounted on the said carrier, and means for closing the said grippers on the wire adapted to be reciprocated on the said spindle relatively to the said gripper carrier and to adjust itself automatically in any direction in a plane at right angles to the axis of the spindle to cause each of the grippers to exert an equal pressure on the wire.

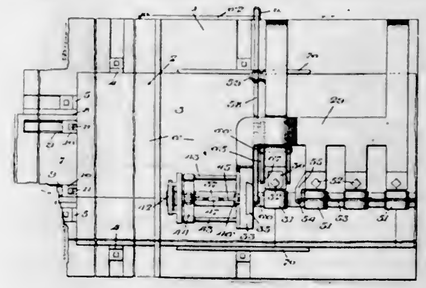
1,380,539. CABINET. LILLIE CATHERINE DIMICK, Fort Wayne, Ind. Filed Mar. 3, 1919. Serial No. 280,397. 2 Claims. (Cl. 217—60.)



1. A cabinet of the character described having a top wall including a rear stationary strip and a cover hinged to the said strip, an upright supporting member hinged to the said stationary strip to fold downwardly upon the rear wall of the cabinet, and connections for detachably holding the said upright in vertical position to form a support for the cover when the latter is raised.

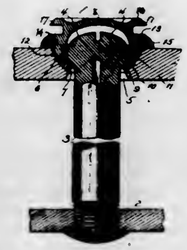
1,380,540. TAPE-APPLYING MACHINE. MOSES B. DISKIN, New York, N. Y. Filed May 8, 1919. Serial No. 295,762. 14 Claims. (Cl. 216—22.)

8. A tape applying machine embodying means for feeding an object a predetermined distance, means for feeding a tape to the object, means for pressing the tape when fed against the object and bringing the feeding means into



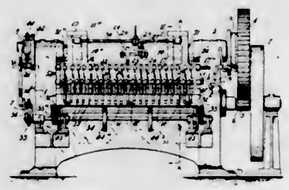
operation, and means operable for cutting the tape when the object has moved the predetermined distance.

1,380,541. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 20, 1920. Serial No. 352,692. 10 Claims. (Cl. 85—1.5.)



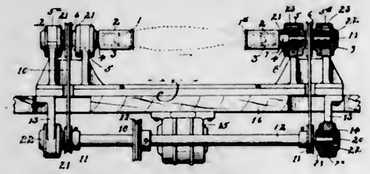
1. In a staybolt structure, the combination with a boiler sheet having an opening of a closure member permanently closed at its outer end and threaded interiorly, said closure member initially seated freely against the boiler sheet approximately in line with the opening therein, a bearing member threaded in said closure member and having an interior seat, a staybolt having a head mounted on the seat in said bearing member, and a weld uniting said closure member to the boiler sheet.

1,380,542. PUNCHING-MACHINE. JOHANNES DREWES, Gideon, Netherlands. Filed Nov. 10, 1919. Serial No. 336,873. 17 Claims. (Cl. 164—90.)



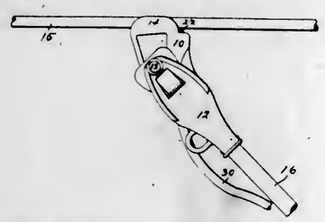
1. In a punching machine, the combination of a reciprocatory element; a plurality of punching devices pivoted thereto; and means for automatically and positively swinging a certain selected punching device or devices into inoperative position.

1,380,543. WRAPPER-SEALING MACHINE. DAVILA S. DU BAUL, Cincinnati, Ohio, assignor to John E. Davis, Columbus, Ohio. Filed Jan. 15, 1921. Serial No. 437,434. 6 Claims. (Cl. 93—2.)



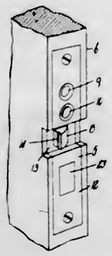
1. In a wrapper sealing machine, a pair of oppositely presented foil spinning thimbles adapted to receive the respective ends of an article to be sealed, and means for positively rotating said thimbles.

1,380,544. SLEET-HAMMER. JOHN N. DUNCAN, Boone, Iowa, assignor to himself, Art F. Brannberg, and J. C. Flannery, Boone, Iowa. Filed Oct. 14, 1920. Serial No. 416,883. 3 Claims. (Cl. 191—59.1.)



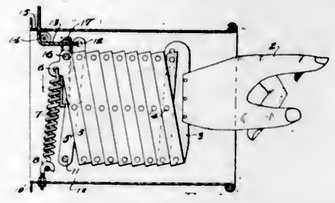
1. A sleet hammer comprising a housing removably and replaceably mounted on and adapted to be carried by a trolley harp, means on said housing adapted for electrical contact with a conductor, a pneumatic hammer mounted in said housing and means for applying air within said housing for the operation of said hammer.

1,380,545. LATCH FOR DOORS. JOHN A. EDGERLY, Boston, Mass., assignor of one-half to Matthew Edgerly, Brookline, Mass. Filed Mar. 4, 1920. Serial No 363,253. 2 Claims. (Cl. 292—169.)



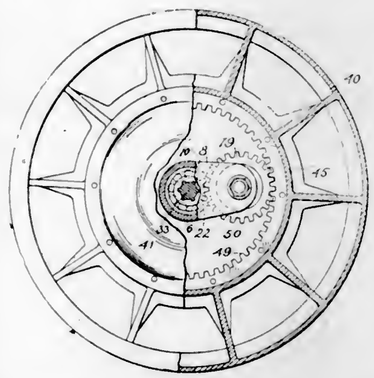
1. A latch embodying a front plate adapted to be fastened to the front edge of a door and having a channel-shaped recess extending horizontally thereacross, a horizontally movable member in said latch adapted normally to project through said front plate and into said recess and having a vertical slot in one face thereof, a striker plate adapted to be fastened to a door casing, and a projection on said striker plate adapted to enter said recess when said door is closed, said projection having a hole therein adapted to receive and entirely inclose the outer end of said horizontally movable member when the same is in advanced position, said projection at one side of said hole being adapted to project into said vertical slot when the door is moved laterally thereof to prevent said member and striker plate from being disengaged from each other.

1,380,546. AUTO DIRECTION-SIGNAL. JAMES DEWAR, Los Angeles, Calif. Filed Mar. 16, 1920. Serial No. 366,331. 6 Claims. (Cl. 116—40.)



1. A signal device attachable to a road vehicle and comprising a box, a series of lazy-tong levers arranged within the box, one end of one of the levers at the inner end of the series of levers being pivoted to the box, the opposite end of the companion lever being slidably connected to the box so as to move toward and away from the said pivot; a spring for normally actuating the lazy-tong levers to an extended position; a signal member on the outer end of the series of lazy-tongs; and a manually operable device restraining the actuation of said lazy-tongs by said spring.

1,380,547. INTERNAL-DRIVE REAR AXLE. FRANK H. FARMER, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1919. Serial No. 281,983. 4 Claims. (Cl. 74—7.)



4. In an internal drive axle of the character specified, the combination of a tubular pinion, bearing rings within which said pinion is rotatably mounted, and a tubular gear cage member within which said bearing rings are fitted and by which they are supported,—the bore of said gear cage being large enough to permit the pinion and its bearing rings to be introduced through the end thereof to operative positions.

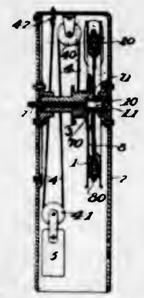
1,380,548. AUTOMOBILE-LIFTING DEVICE. HENRY F. FIENUP, Wellston, Mo. Filed Aug. 31, 1918. Serial No. 252,248. 2 Claims. (Cl. 254—91.)

1. An automobile jack comprising a base frame, a lifting frame pivotally mounted above said base frame and connected therewith, a lifting lever having a cutaway portion hingedly connected at its lower end to said base frame, a strap iron member spanning the cutaway portion of said lever, a hinge plate fixed to one end of said movable lifting frame and extending therefrom, and a pin



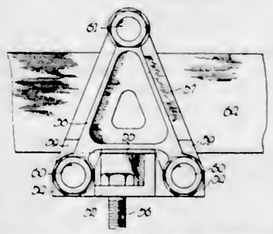
carried by the extended end of said hinge plate adapted to slidably engage the rear face of said strap iron member during the raising and lowering operations of the lifting lever.

1,380,549. HOSE-REEL. JOHN R. FLOOD, Everett, Wash., assignor of one-half to Thos. L. Moore and Wm. Sheller, Everett, Wash. Filed Apr. 12, 1920. Serial No. 373,268. 1 Claim. (Cl. 299—78.)



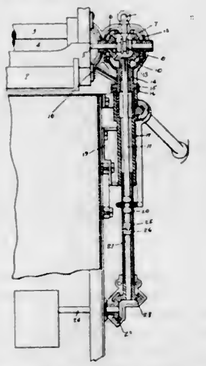
A hose reel comprising a casing having a hose exit opening, a hose reel mounted within said casing to deliver its hose to said opening, the hub of the hose reel having a distributing chamber and a pipe extending therefrom to the hose storage channel of the reel and adapted to have the hose secured thereto, a non-rotative pipe extending through the hub of the reel and entering said distributing chamber, said latter pipe having a bearing flange engaging the inner end face of said distributing chamber, a small take-up drum at one side of the hose reel, a take-up rope secured to and winding upon said take-up drum, a guide pulley for the take-up drum secured to the upper part of the casing, a pulley and weight secured thereto supported in a bight of the take-up rope, the end of the rope being secured to the upper part of the casing.

1,380,550. BUS-BAR CLAMP. FRANK E. GETTS, deceased, Chicago, Ill., by Eva J. Getts, administratrix, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Original application filed Sept. 21, 1918, Serial No. 255,184. Divided and this application filed Dec. 17, 1919. Serial No. 345,671. 7 Claims. (Cl. 173—313.)



1. In combination, a bus-bar clamp, comprising a base portion said base portion having an upstanding ridge, and integrally formed with bolt carrying lugs disposed on either side of the said ridge, the upper surface of the said ridge being in a parallel plane with the plane of the bolts carried by the said lugs, each of the said bolts extending through the said lugs and having threaded portions on either side thereof, a pair of clamping members adapted to be carried on the said bolts, one on each side of the said base portion the said clamping members having opposing parallel faces and clamping nuts on the ends of said bolts to secure the said clamping members.

1,380,551. WRINGER MECHANISM FOR WASHING-MACHINES. BENJAMIN E. GETZ, Morton, Ill., assignor to Getz Power Washer Co., Morton, Ill., a Corporation of Illinois. Filed July 11, 1919. Serial No. 310,099. 7 Claims. (Cl. 68—32.)



1. In a machine of the character described, in combination, a wringer, a swingable support therefor, including a tubular casing, a shaft journaled in said casing, means to operate said shaft, means to operate the wringer from said shaft, means adapted to have a frictional locking relation with said casing to lock the same against rotation, and means to disconnect said shaft from its operating means, simultaneously with the release of said lock.

1,380,552. MANUFACTURE OF ALUMINIUM COMPOUNDS FROM SILICATES. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignor to Det Norske Aktieselskab for elektrokemisk Industri, Norsk Industrihypotekbank, Christiania, Norway. Filed Mar. 19, 1917. Serial No. 155,881. 6 Claims. (Cl. 23—13.)

1. The process of producing aluminium compounds from minerals rich in plagioclases containing combined sodium, which comprises treating the said minerals with an acid not containing combined fluorin to form a solution containing aluminium salts, and recovering aluminium compounds from the solution thus formed.

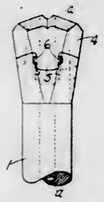
1,380,553. VAPORIZER. ARCHIBALD W. GRIFFIN, Toledo, Ohio, assignor to The Electric Vaporizing Nozzle Company, Toledo, Ohio, a Corporation of Ohio. Filed May 29, 1920. Serial No. 385,099. 4 Claims. (Cl. 219—38.)



1. In a carbureter, a nozzle, a resistance wire located adjacent the passageway of the carbureter leading to the

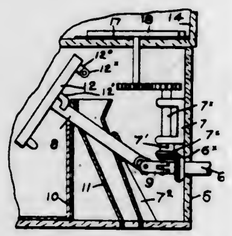
nozzle and located beneath the nozzle for heating the liquid of the fuel as it passes to the nozzle, and means for connecting the resistance wire to a source of current supply.

1,380,554. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Mar. 21, 1919. Serial No. 283,954. 3 Claims. (Cl. 287—103.)



3. In combination with a drill-bar or shank, a bit movable across the shank, a transverse groove disposed across the axis of the shank at an incline to said axis and tapering on the sides in a general direction from the cutting end of the drill, lateral recesses having parallel side walls leading from the groove in a direction transverse to the axis of the shank, the faces of the shank terminal on either side of the groove being parallel to the groove bottom, a bit provided with a transverse tongue shaped to be received by, and to engage the walls and bottom of the groove, ribs on the tongue for entering the recesses aforesaid, the tongue being bounded by offsets adapted to engage and be supported by the end faces of the shank on either side of the groove.

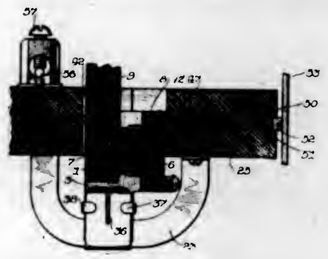
1,380,555. SEEDING-MACHINE. AUGUST FREDRICK HEMME, Dublin, Ontario, Canada. Filed Apr. 7, 1919. Serial No. 288,026. 2 Claims. (Cl. 221—135.)



1. In a device of the class described, the combination with the seed container and discharge spout located adjacent to the container, of a disk rotatably mounted and set in an inclined position so that the lower peripheral portion thereof extends into the body of the seed in the seed container and the upper peripheral portion overhangs the seed discharge spout, and cups carried on the under face of the inclined disk and projecting therefrom for lifting successively portions of seed and discharging them into the seed discharge spout.

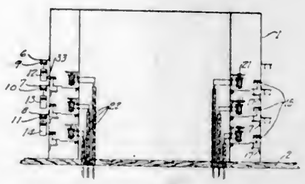
1,380,556. FUSED CUT-OUT. ALFRED HERZ, Chicago, Ill., assignor of one-half to Edmund O. Schweitzer, Chicago, Ill. Filed Aug. 10, 1917. Serial No. 185,597. 14 Claims. (Cl. 200—129.)

12. In combination a fuse, a pair of compression blocks lying on each side of said fuse, means for forcing the compression blocks toward each other, means for limiting the movement of the compression blocks away from each other,



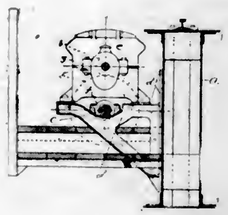
a body of oil inclosing said fuse and said compression blocks, and a substantially fluid tight casing inclosing the body of oil.

1,380,557. VOTE-REGISTERING MACHINE. EUGENE E. HINES, Lawrenceville, Ill. Filed Feb. 24, 1920. Serial No. 361,064. 3 Claims. (Cl. 235—52.)



1. In a voting machine, a vertically mounted cylinder; horizontal rows of ports cut through the cylinder wall, a row for each record desired; arrows pivoted within the cylinder, one at each port and adapted to oscillate their heads therethrough; and means for moving said arrows as indicated.

1,380,558. TRAVELING CRANE. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Oct. 27, 1919. Serial No. 333,741. 1 Claim. (Cl. 104—166.)



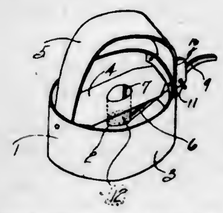
In a traveling crane of the character described, the combination with a motor and a transmission shaft, of a bracket fixed to the framework of the crane and adapted to support the motor, a pinion fixed on the motor shaft, a gear wheel fixed on the transmission shaft and adapted to be engaged by the said pinion, and a bearing in the said bracket for the transmission shaft, the said motor being detachably secured to the bracket.

1,380,559. WEDGE. AKSEL THEODOR JESPERSEN, Omaha, Nebr. Filed Apr. 14, 1920. Serial No. 373,875. 6 Claims. (Cl. 254—104.)



1. A wedge comprising, a main section, an auxiliary section slidably associated with the main section, and a head detachably connected to the auxiliary section.

1,380,560. DOUGHNUT-CUTTER. ALFRED E. JOHNSON, Racine, Wis. Filed Nov. 17, 1920. Serial No. 424,593. 3 Claims. (Cl. 107—51.)



1. In combination with a doughnut cutter having circular inner and outer blades, an ejecting trigger extended loosely outwardly through the walls of said blades, as means for ejecting the center dough from the inner blade.

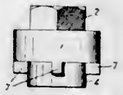
1,380,561. DISPLAY-BOX. ABRAHAM J. KAUFMANN, Philadelphia, Pa., assignor to Edwin Wolf, Clarence Wolf, Benjamin Wolf, Louis Wolf, and Albert Wolf, Copartners trading and doing business as National Metal Edge Box Company, Philadelphia, Pa. Filed Oct. 20, 1919. Serial No. 331,800. 2 Claims. (Cl. 206—44.)



1. A box made of a paper blank having a flat bottom, rectangular ends of different heights, trapezoidal sides, all extending normal to the bottom, and a false bottom substantially parallel with the upper edges of the sides.

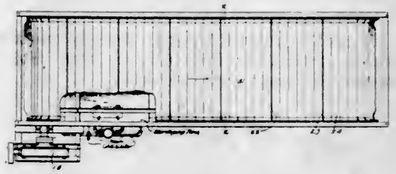
1,380,562. VALVE-PLUG REMOVER. MICHAEL KEATING, Dayton, Ohio. Filed Sept. 13, 1920. Serial No. 409,861. 1 Claim. (Cl. 81—71.)

A device of the type described comprising a member having a middle shoulder portion, a projection adapted to be gripped by a wrench on one side of said shoulder portion, a cylindrical projection on the other side of said shoulder portion, and lugs projecting outwardly from said



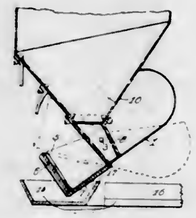
shoulder portion along the cylindrical projection a distance less than the distance between said shoulder portion and the outer edge of the cylindrical projection.

1,380,563. VISCERA-INSPECTION TABLE. ELMER KEEBLER, Chicago, Ill., assignor to The Mechanical Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 7, 1919. Serial No. 309,102. 13 Claims. (Cl. 193—7.)



1. In a device of the character described, an endless conveyer comprising a plurality of loosely connected flights, means for maintaining said flights in close engagement during the operative travel thereof, and means for separating the flights during their return travel.

1,380,564. FEEDING DEVICE. GEORGE COLVIN KENNEDY, Waterloo, Iowa. Filed Apr. 12, 1920. Serial No. 373,236. 12 Claims. (Cl. 119—54.)

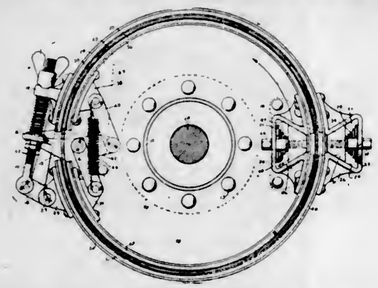


1. In a feeding device, a hopper, and an open top feeding vessel pivotally mounted intermediate its ends, one end of said vessel being terminally closed to serve as a feed receptacle and the opposite end being terminally open to serve as a delivery chute, and into which the hopper extends in such a relation to the vessel that in one position of the vessel the upper surface of its bottom closes the delivery orifice of the hopper.

1,380,565. BRAKE MECHANISM. WALTER C. KEYS, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 6, 1918. Serial No. 252,812. 4 Claims. (Cl. 188—77.)

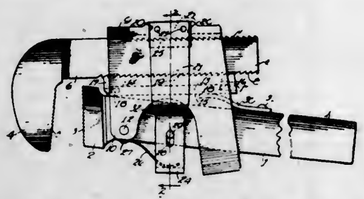
3. In brake mechanism, the combination of a revoluble member, a brake anchorage, a brake coöperating with said member, means adjacent the ends of the brake for actuating the same, a bracket secured to said brake intermediate

its ends coöperating with said anchorage to hold the brake and force the adjacent part thereof against said



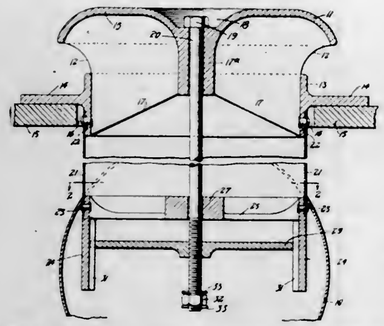
member upon actuation of the brake, and spring means cooperating with said bracket and said anchorage to retract said brake upon the release thereof.

1,380,566. PIPE-WRENCH. ARTHUR WELLINGTON KIEFER, Chicago, Ill. Filed Oct. 21, 1920. Serial No. 418,392. 5 Claims. (Cl. 81—103.)



1. A pipe wrench comprising a handle having one end formed to provide a jaw, a guiding and retaining member having a pivotal connection with said handle, a second jaw arranged to oppose said first named jaw and provided with a shank slidable in said guiding and retaining member, said shank being provided with teeth in its upper and lower side, a spacing member secured to said guiding and retaining member and provided with teeth in its side adjacent the lower teeth in said shank, and means carried by said handle for causing the teeth on said spacing member to normally engage the teeth on said shank to prevent movement of said shank in one direction, said means having teeth adapted to engage the upper teeth of said shank.

1,380,567. VENTILATING-VALVE. ARTHUR F. KNOWLES, Montclair, N. J. Filed Oct. 7, 1916. Serial No. 124,435. 6 Claims. (Cl. 98—49.)

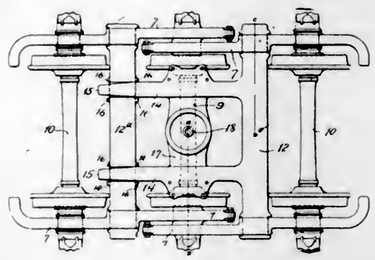


5. In a ventilator, in combination with a distributing member, a valve portion adapted to vary the amount of ventilating fluid admitted into the distributing member, said valve portion consisting of a sleeve attached to the distributing member at the lower portion thereof, an open spider rigidly mounted in said sleeve in communicative relation with the distributing member, a threaded bolt passing from the distributing member into the sleeve and through the spider, a plate threaded on said bolt at the lower extremity thereof adapted to travel thereon, and guide members for said plate attached to the sleeve at the lower extremity thereof.

1,380,568. ADHESIVE COMPOSITION. ARTHUR LAFLAMME, Montreal, Quebec, Canada, assignor of one-half to Aldama Laflamme, Montreal, Canada. Filed Nov. 22, 1919. Serial No. 340,040. 1 Claim. (Cl. 87—17.)

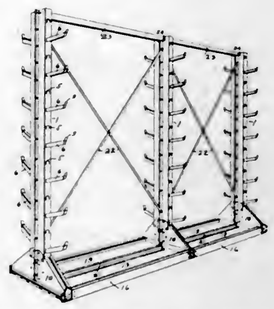
An adhesive formed of 2 ounces of caustic, 1 lb. of rosin, ¼ lb. of ammonium chlorid, ¼ lb. of sugar of lead, 1 lb. of glue, 3 lbs. of whiting, 3 lbs. of plaster, 1 lb. of saltpeter mixed in approximately 4 gallons of boiling water, to which are added 10 lbs. of fluor mixed separately in approximately 4 gallons of water.

1,380,569. BOLSTER CONSTRUCTION FOR SIX-WHEEL TRUCKS. JACOB C. LARSEN, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed Jan. 17, 1921. Serial No. 437,857. 6 Claims. (Cl. 105—195.)



1. In a six wheel truck, the combination of a truck frame each side of which is composed of two connected members, two transverse bolsters independent of said side members and supported at their ends thereby, two longitudinal parallel bolsters integral with one of said transverse bolsters and having interlocking connection at their free ends with the other transverse bolster, and a center or main bolster carried by the two longitudinal bolsters.

1,380,570. BAR-RACK. EDWARD G. LEHMAN, Canton, Ohio, assignor to The Berger Manufacturing Company, Canton, Ohio, a Corporation. Filed Sept. 21, 1918. Serial No. 255,085. 16 Claims. (Cl. 211—14.)

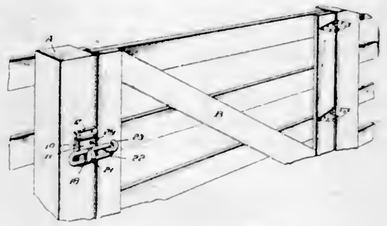


2. A column for racks and the like including two spaced upright walls, series of slots in the walls, and rack arms

respectively engaged in a slot in one wall and bearing in a slot in the other wall.

12. A rack for bars and the like including a plurality of columns having supporting arms thereon, bases for the columns including inverted V-gusset plates and transverse channels, and longitudinal channels connecting the ends of the bases.

1,380,571. LOCK. ARTHUR G. LEONARD, Chicago, Ill. Filed Aug. 30, 1920. Serial No. 406,833. 20 Claims. (Cl. 70—5.)

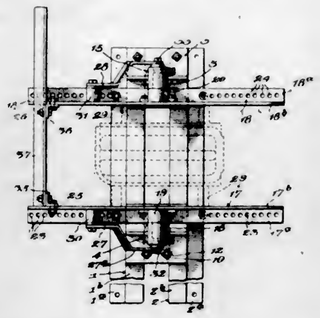


18. A lock comprising in combination a casing, a rotatable stem projecting from the casing and having means on its projecting portion for interlocking, after a partial rotation of the stem, with a member not connected with the casing, a rotatable support with which the inner end of the stem has screw-threaded connection, and means for holding said support stationary to permit the stem to be turned relatively thereto.

1,380,572. PROCESS OF PRODUCING PECTIN. RALPH H. MCKEE, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,535. 4 Claims. (Cl. 99—11.)

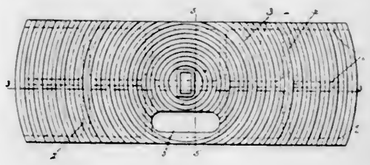
4. The herein described process which consists in heating fruit and substantially an equal weight of water to a temperature of approximately 125° C., for several minutes, separating the fibrous material from the resulting mush, adding finely divided absorbent carbon to the resulting solution, evaporating such solution at a pressure less than atmospheric pressure, and separating the concentrated solution from the absorbent carbon.

1,380,573. ENGINE-STAND. ROBERT E. MANLEY, York, Pa., assignor to The Manley Manufacturing Company, York, Pa., a Corporation of Pennsylvania. Filed July 18, 1917. Serial No. 181,286. 5 Claims. (Cl. 29—89.)



1. A supporting member, a plurality of upright members secured thereto, a plurality of work holding elements coaxially pivoted one on each of said upright members providing an unobstructed passage-way, means for securing an engine to said work holding elements, means connected to one of said work holding elements and to the upright member on which it is pivoted for holding said elements in desired adjusted position, and similar means for the other holding element and the upright member on which it is pivoted.

1,380,574. TRACTION-PLATE. WILLIAM C. MASON, Albany, N. Y. Filed Apr. 28, 1920. Serial No. 377,381. 4 Claims. (Cl. 238—14.)



1. A traction-plate having on one side a tread-surface, and on the opposite side a rocker-surface tapering toward an end of the plate.

1,380,575. MEANS FOR AUTOMATICALLY REGISTERING A SHIP'S DRAFT. FRANK W. MERRITT and ALFRED E. WATTS, Duluth, Minn. Filed Nov. 17, 1919. Serial No. 338,675. 5 Claims. (Cl. 73—54.)



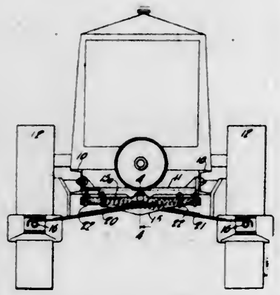
1. In a device for registering the temporary draft of a vessel, the combination with the hull of a vessel having an aperture formed through its bottom communicating with the free water in which the ship floats, of a water conductor covering said opening and communicating therewith at one end, a pressure cylinder communicating at one end with the opposite end of said conductor, a floating piston within said cylinder, a fluid container communicating at one end with the opposite end of said pressure cylinder, said fluid container communicating at its opposite end with an internal fluid pressure gage, means for filling said fluid container, and means for varying the cubical capacity of said container, said piston being adapted to prevent the passage of water through said cylinder from said water conductor and to prevent the passage through said cylinder of fluid from said fluid container.

1,380,576. AIRPLANE. DAYTON M. MILLS, Armada, Mich.. Filed Mar. 21, 1919. Serial No. 284,197. 5 Claims. (Cl. 244—29.)



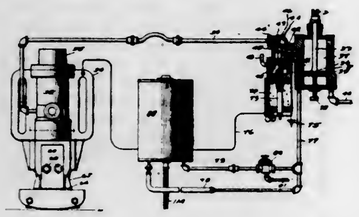
1. An aero foil, two parallel pivoted rods adjacent and parallel to the axis of said aero foil and resting in bearings so that each shall be capable of oscillating about its axis, each of said rods being provided with a rigid, laterally-extending arm extending in a direction away from the other of said rods and secured to said aero foil, and means for simultaneously rotating said rods in the same direction.

1,380,577. SPRING SUSPENSION FOR TRACK-LAYING TRACTORS. MATHEW B. MORGAN, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed July 20, 1920. Serial No. 397,610. 2 Claims. (Cl. 305—9.)



1. In a track laying tractor, the combination of a main frame, two endless track structures located respectively on opposite sides of the main frame, an equalizer bar centrally pivoted to the main frame on a longitudinal axis near one end of said main frame and two leaf springs which are respectively connected to said equalizer bar near opposite ends thereof,—each spring being extended from its point of connection with the equalizer bar transversely across the machine and into operative engagement with that endless track structure which lies on the opposite side of the main frame.

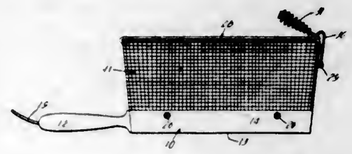
1,380,578. TRAIN-CONTROLLING SYSTEM. WILLIAM B. MURRAY, Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va., a Corporation of Virginia. Filed May 6, 1918. Serial No. 232,906. 15 Claims. (Cl. 246—181.)



1. The combination with the engineer's brake valve of a locomotive, of automatic control means therefor, comprising an operating member connected thereto, a piston rod connected to said operating member, a pressure cylinder, a piston arranged in said cylinder and connected to said piston rod, said cylinder being provided with an outlet communicating with the atmosphere, an electrically operated valve normally closing said outlet, a pipe connected to said outlet, a casing communicating therewith, a valve arranged in said casing, means for operating said electrically controlled valve, speed responsive means to operate said second valve, and means operable by said first mentioned means to vary the speed at which said speed responsive means will actuate said valve.

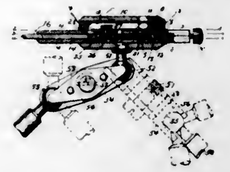
1,380,579. ELECTRIC POPCORN-POPPER. ABNER E. NEFF, Long Beach, Calif. Filed May 31, 1919. Serial No. 300,831. 13 Claims. (Cl. 219—37.)

1. An electrically heated pop-corn popper embodying a pan, a heating element therein, a foraminous cage over the top of the pan; the heating element being spaced at its edges from the walls of the pan, and a sloping fillet



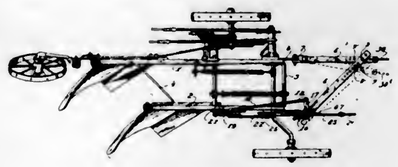
member around the walls of the pan with its slope leading to a point over the heating element to direct pop-corn away from the walls and over the heating element.

1,380,580. SURFACE AND CENTER INDICATOR. JAMES A. NELL, New Britain, Conn. Filed Mar. 25, 1919. Serial No. 284,925. 3 Claims. (Cl. 33—172.)



1. In a device of the character described, the combination with a frame, a pointer, a spring for retaining said pointer in and returning it to normal position, a pivoted lever, and means between said pivoted lever and pointer for transmitting movement to the latter, of a second lever coöperating with said first-mentioned lever, a sliding bar, a contact head connected with said bar, a bell-crank lever, a rod having pivotal connection with said bar and with one arm of the bell-crank lever, and a rod having pivotal connection with the other arm of said bell-crank lever and said second lever.

1,380,581. GANG-PLOW. FRANKLIN B. NIESZ, Canton, Ohio, assignor to The Bucher and Gibbs Plow Company, a Corporation of Ohio. Filed Aug. 27, 1917. Serial No. 188,400. 1 Claim. (Cl. 97—7.)

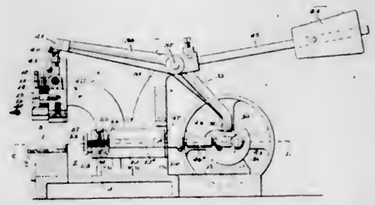


In combination with the frame of a gang plow, a draft bar pivotally connected to the frame, a rock shaft having a crank arm and being pivoted to the frame at a lateral interval from the draft bar connection, a diagonal brace bar pivotally connected at its forward end to the draft bar and at its rear end to the crank arm, and means for adjusting the rock shaft and to swing the crank arm to vary the angle of the draft bar.

1,380,582. MACHINE FOR SHAPING CANDLE ENDS. FREDERICK L. NITSCH, Syracuse, N. Y., assignor, by mesne assignments, to George F. Sax, Syracuse, N. Y. Filed June 9, 1919. Serial No. 302,683. 15 Claims. (Cl. 18—27.)

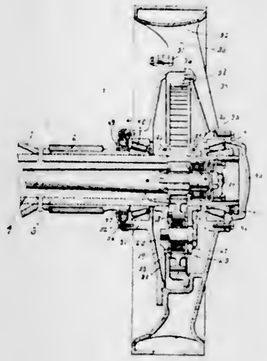
14. A machine for shaping candle ends comprising means for holding the shank of the candle with one end projecting, a die supported by the carriage and movable

therewith, the die being arranged in advance of the candle holding means, a plunger supported by the carriage and movable therewith axially of the die, a fixed support, a power transmitting part carried by the fixed support and



coacting with the plunger, and the pusher associated with the carriage and movable into engagement with the power transmitting part after the carriage has carried the die a predetermined distance, substantially as and for the purpose st forth.

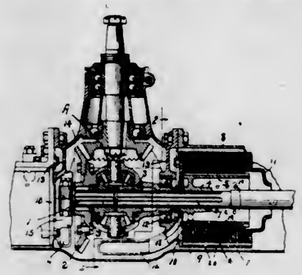
1,380,583. TRACTOR AXLE AND WHEEL. CLARK W. PARKER, New York, N. Y. Filed Aug. 20, 1919. Serial No. 318,662. 3 Claims. (Cl. 74—7.)



1. In a vehicle, the combination of a casing, a tubular axle of substantially uniform external diameter throughout its length mounted in one end of the axle casing and having an opening near its end, a tractor wheel hub rotatable on the axle and having a hub in two spaced sections, one on either side of the opening in the axle, a driving shaft within the axle, a pinion on the shaft at the opening in the axle, an idler gear extending into the opening in the tubular axle and meshing with said pinion, a pin on which said idler gear is mounted, a supporting device for said pin clamped on said axle, and an internal gear connected to the wheel hub and meshing with said idler gear.

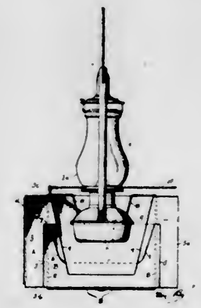
1,380,584. LUBRICATOR FOR VEHICLE-BRAKES. CLARK W. PARKER, New York, N. Y. Filed Sept. 30, 1920. Serial No. 413,862. 5 Claims. (Cl. 188—264.)

1. A lubricating mechanism for disk-brake mechanisms of alined shafts which are connected and actuated by differential gearing, consisting of an oil conductor for each brake mechanism extending toward the main ring gear



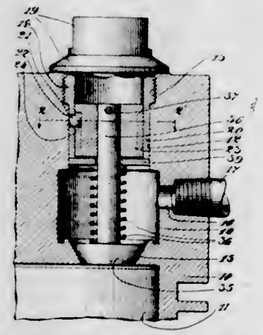
of the differential and having its inlet at substantially the level of the central line of the shafts.

1,380,585. INSECT-TRAP. EUGENE F. PARKS, Winston-Salem, N. C. Filed Dec. 7, 1920. Serial No. 428,950. 12 Claims. (Cl. 43—113.)



1. Apparatus for trapping insects, comprising a central hopper, a chamber surrounding the hopper, means defining a trap opening therebetween, a source of light disposed immediately above the hopper and means operative to produce a zone of relative darkness in the hopper below the source of light and an illuminated zone outwardly from said zone of darkness.

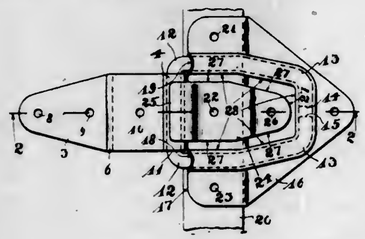
1,380,586. VALVE. HENRY E. PELLETIER, Newark, N. J., assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 3, 1920. Serial No. 370,924. 6 Claims. (Cl. 251—129.)



1. A valve comprising a body having a chamber and an outlet therefor, a conical seat forming an inlet into

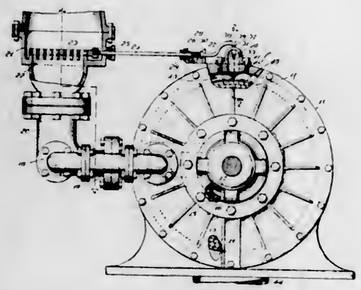
the chamber, a cap engaging said body registering with said seat, a sleeve formed with said cap extending into the chamber, a plug movable in said sleeve, a valve element suited to said seat rigidly connected with said plug, and means carried coöperatively in said sleeve and plug for partially rotating said valve at each full movement thereof.

1,380,587. HINGE. ISIDORE PHILLIPS, Los Angeles, Calif. Filed Dec. 18, 1920. Serial No. 431,700. 4 Claims. (Cl. 16—106.)



3. In a hinge, one member folded upon itself forming a knuckle, a link member disposed through the knuckle extending away from the knuckle so that the free ends practically meet having bent terminations practically parallel to the portion in the knuckle, and a second member having a recess in its underside engaging the free portion of the link so that the link cannot withdraw from the second member when the second member is placed over it.

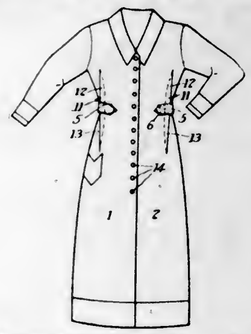
1,380,588. GOVERNOR. PETER PHILLIP, Chicago, Ill. Filed May 18, 1917. Serial No. 169,436. 6 Claims. (Cl. 253—82.)



1. The combination with a fluid operated turbine having a rotor with a circular series of vanes operated on by the motive fluid for imparting rotation to the rotor, of governing mechanism including an actuating member adjacent the path of movement of said vanes and adapted for movement in a direction corresponding to the direction of movement of the adjacent vanes so as to be displaced by the motive fluid as it leaves said vanes of the rotor.

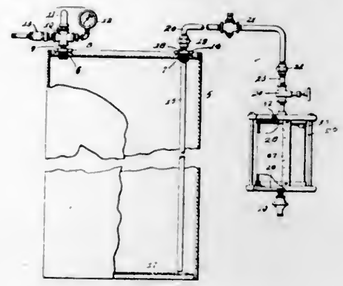
1,380,589. GARMENT. EMMA POYER, Los Angeles, Calif. Filed Sept. 30, 1919. Serial No. 327,538. 1 Claim. (Cl. 2—145.)

In a garment, front pieces, a back piece fastened to the front pieces, and a belt fastened at its opposite ends to the front pieces and fastened intermediate of its ends to the back piece, there being folds in the front pieces respectively fastened only at the belt and gradually disappearing toward the neck and hem of the garment, and there being a box plait in the back piece fastened at the belt and for a slight distance below the belt and loose above the belt and somewhat below the belt and gradually



disappearing toward the neck and hem of the garment, and the belt having its ends spaced apart and the front pieces hanging straight and loose.

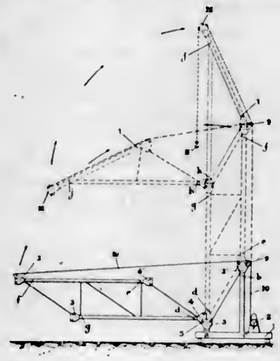
1,380,590. OIL DISPENSING AND MEASURING DEVICE. STEPHEN C. PRICE, Louisiana, Mo., and EARL E. RICHARDSON, Quincy, Ill., assignors, by direct and mesne assignments, to P. R. B. Pump Co., Hannibal, Mo., a Corporation of Missouri. Filed July 28, 1919. Serial No. 313,899. 2 Claims. (Cl. 221—99.)



1. An oil dispensing and measuring device, comprising a single tank for storing the oil and air under pressure, and provided with screw-threaded openings, an internally and externally screw-threaded nut secured in each opening and providing air-tight connections for said openings except through the nuts, a cross shaped fitting detachably mounted in one of said nuts, a pressure gage and safety valve carried by said fitting, an outwardly seating check valve for admitting and retaining air under pressure carried by said fitting, a discharge pipe located in said tank having its upper end screw seated in the other nut, a goose neck provided with a cut-off valve, a swivel connection between the goose neck and discharge pipe permitting the same to bes wung and adjusted to different sides of the tank, a measuring chamber, a swivel connection between the measuring chamber and goose neck, whereby the latter may be disconnected from the goose neck and adjusted so as to bring the scale on the measuring chamber in desired position independent of the adjustment of the goose neck.

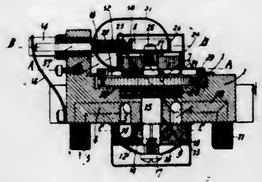
1,380,591. PORTABLE LIFTING APPARATUS. FRANÇOIS QUET, Nice, France. Filed Mar. 25, 1919. Serial No. 285,064. 3 Claims. (Cl. 212—8.)

1. A jib crane comprising a structural framework constructed of separate component parts, the said component parts being pivotally connected with each other by horizontal bolts and having oblique assembling planes proceeding from the pivotal axis, the said oblique plane of one component part in the erection of the structure being brought to bear upon the corresponding oblique assembling



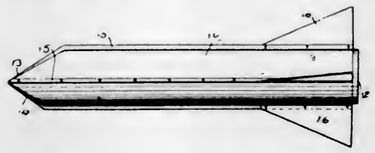
plane of the other component part already erected, and means for completing the connection of the respective component parts to form integral members of the structure, substantially as described.

1,380,592. APPARATUS FOR CONTROLLING THE GAS-SUPPLY, IGNITING, AND EXTINGUISHING GAS-BURNERS. LÉON RADET, Paris, France. Filed June 12, 1919. Serial No. 303,780. 3 Claims. (Cl. 67—20.1.)



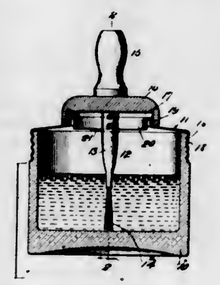
1. Apparatus for controlling gas supply, igniting, and extinguishing gas lamps, comprising in combination: a rotatable shaft mechanism on said shaft for opening and closing the gas supply to a pilot jet and to a main burner respectively; a spring drum on said shaft having a roughened outer surface; a stationary ring surrounding said shaft; internal projections on said ring; an eccentric on said shaft; a bolt in operative connection with said eccentric and passing through the said spring drum, so adjusted with regard to the stationary ring as to alternately stop and release the spring drum during the rotation of the shaft; and a spring-impelled sparking rod in contact with the roughened surface of the drum.

1,380,593. CONVEYER FOR UNLOADING ARTICLES FROM AIRCRAFT. JACK M. REAY, Blackfoot, Idaho. Filed Feb. 19, 1921. Serial No. 446,370. 7 Claims. (Cl. 9—8.)



1. A conveyer for unloading articles from aircraft comprising a hollow body pointed at one end and having radially projecting wings at its opposite end, the butt end of the body being open, and a lid having water-tight engagement with the butt end of the conveyer, the forward end of the conveyer having oppositely beveled faces, one longer than the other, whereby to cause the conveyer to rise quickly after striking the water.

1,380,594. MUCILAGE-STAND. JAMES T. RILEY, Brooklyn, N. Y., assignor to Kimpton, Haupt & Co., New York, N. Y., a Firm composed of Charles F. Kimpton, Harry Haupt, and Elizabeth H. Harbottle. Filed Sept. 15, 1920. Serial No. 410,552. 3 Claims. (Cl. 91—67.3.)



1. A mucilage stand comprising a receptacle, a cover therefor having a central opening and a brush having a handle and a lid for said opening, said cover having a peripheral edge portion to engage the receptacle and at said opening having a double-flange comprising an upwardly extending outer member and an inner member extending downwardly from the folded-over upper edge of the said outer member, and said cover also having a bar connected at its ends with the lower edge of said inner member and crossing said opening at one side of the center thereof.

1,380,595. QUICK-THROW ELECTRIC SWITCH. EMIL RITZ, Jr., Cincinnati, Ohio, assignor to The Hisey-Wolf Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 29, 1918. Serial No. 231,329. 8 Claims. (Cl. 200—78.)

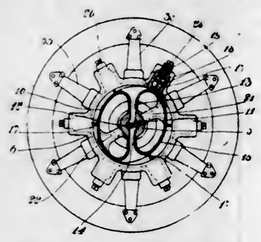


1. In a quick throw electrical switch, a sliding switch closing member, a spring bearing directly on said member, a member adapted to engage the switch closing member and draw it out of closing position, a spring bearing directly on said engaging member, pawls to retain the switch closing member and the engaging members therefor in position, and means for compressing the springs, and releasing the pawls after the springs are compressed, and an independent latch for controlling the opening movement of the closing member, for the purpose described.

1,380,596. HYDRAULIC MOTOR. CARL AUGUST RUDQVIST, Stäket, Sweden, assignor to J. & C. G. Bolinders Mekaniska Verkstadts Aktiebolag, Stockholm, Sweden, a Manufacturing Company of Sweden. Filed Nov. 1, 1920. Serial No. 421,063. 1 Claim. (Cl. 121—54.)

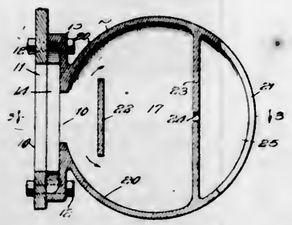
In a hydraulic motor, the combination of a stationary stator having eccentric bounding surfaces and axial inlet and outlet passages for the driving liquid, a rotatable casing surrounding said stator, and movable pistons in said casing bearing against the bounding surfaces of said

stator, said bounding surfaces having such different shapes as to produce working chambers of different volumes be-



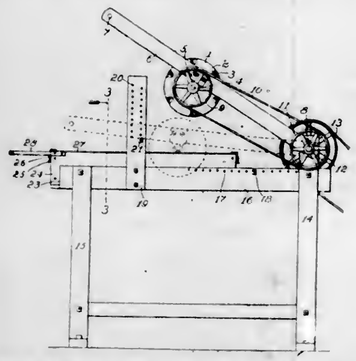
tween said surfaces and said casing, each of which chambers communicates with one of said inlet passages.

1,380,597. FUEL-SAVING ATTACHMENT FOR FURNACES. NELSON J. RUSSELL, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,744. 3 Claims. (Cl. 110—175.)



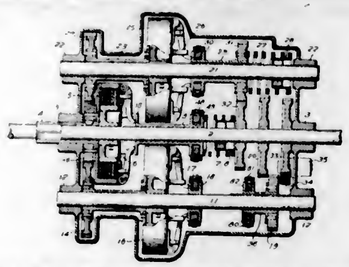
3. As a new article of manufacture, a fuel saving attachment for furnaces comprising a member having at its edge a receiving chamber-casing with a reduced outlet and provided with a horizontally disposed cavity in communication with said chamber-casing through said outlet, a baffle plate located within said cavity near the receiving chamber, and a centrally orificed partition located in said cavity parallel with said baffle plate thereof, said member having in the inner or front portion of its wall a horizontally disposed discharging slot.

1,380,598. MACHINE FOR FORMING CONCRETE BLOCKS. JOHN M. SCHENK, deceased, Waterloo, Iowa, by Ella M. Schenk, administratrix, assignor to Ella M. Schenk, Waterloo, Iowa. Filed Apr. 22, 1920. Serial No. 375,829. 11 Claims. (Cl. 25—119.)



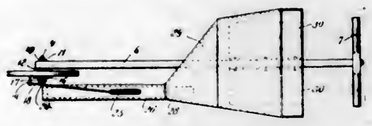
1. In a machine for forming concrete blocks, an open mold mounted for reciprocation, and a rotary former-head having a plurality of troweling cheeks movable into and out of said mold.

1,380,599. TRANSMISSION-GEARING. CHARLES R. SCOTT, Wyandotte, Okla. Filed Jan. 24, 1920. Serial No. 353,733. 14 Claims. (Cl. 74—58.)



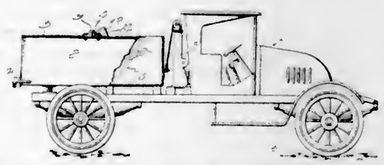
1. Transmission gearing comprising a main drive shaft, high, intermediate and low speed shafts, gearing mounted on said shafts, gearing on the main drive shaft adapted to mesh therewith, controlling means for said high and intermediate gearing, separate control means for said low speed gearing, and means operable by said low speed control means to disconnect said high or intermediate speed gearing.

1,380,600. PLAYGROUND-MARKER. MILTON H. SEITZ, Akron, Ohio. Filed Aug. 12, 1920. Serial No. 402,992. 2 Claims. (Cl. 275—2.)



2. In a device of the character specified, a wheel supported hopper having a discharge chute of uniform cross-section throughout its length, a grid arranged within the chute, and a connection between the supporting wheel and the grid for reciprocating said grid.

1,380,601. DUMPING-TRUCK. TIMOTHY E. SHAFER, Fowler, Calif. Filed Jan. 5, 1920. Serial No. 349,498. 2 Claims. (Cl. 298—8.)

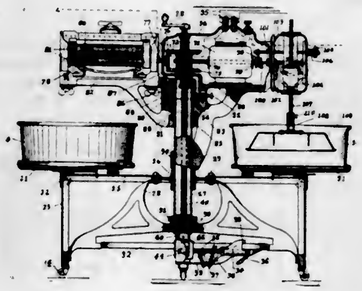


1. The combination with a vehicle body including a movable end gate; of a longitudinally adjustable transverse partition disposed between the gate and the opposite end of the body, oppositely disposed bearings shiftable along the upper edges of the sides of the body, a rock shaft including a crank portion, having its opposite ends journaled in the bearings, said shaft being secured to the partition and serving as the pivotal mounting for the latter, a bolt connected to the crank portion of the shaft, a guide on the partition, the bolt being slidable through the guide, the bottom of said body being provided with spaced openings into which the free end of the bolt is receivable.

1,380,602. LAUNDRYING-MACHINE. JOHN H. SIERT and ALVIN H. SIERT, Omaha, Nebr. Filed Mar. 8, 1920. Serial No. 364,062. 2 Claims. (Cl. 68—19.)

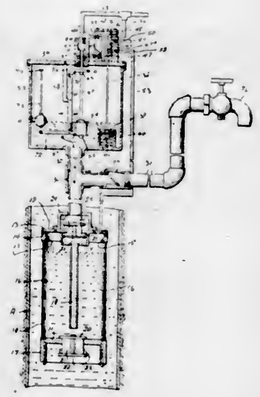
1. A laundrying machine comprising a clothes pounder including a plunger, a rod carrying said plunger and

mounted to reciprocate vertically, a casing slidingly receiving said rod, a head on the rod within the casing, said head adapted to reciprocate the rod to permit the rod to turn therein, means for turning said rod in the head during the reciprocating movement of the rod, said



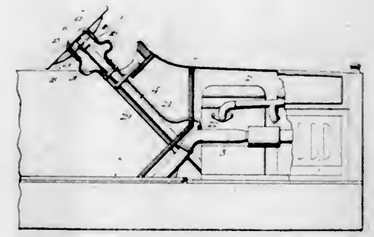
head having horizontally extending cam grooves therein with an offset portion at its central part, a crank arm engaged with said groove and moving alternately in and out of the depressed central part thereof, and means for causing the crank arm to move in a circular path.

1,380,603. PNEUMATIC PUMP. THOMAS E. SMYTHE, Hammond, Ind. Filed Nov. 1, 1919. Serial No. 335,054. 6 Claims. (Cl. 103—8.)



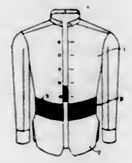
1. A pneumatic pump comprising a lower chamber connected to a source of liquid, an upper chamber into which the lower chamber discharges, said upper chamber having a liquid discharge outlet, a valve mechanism adapted in one position to permit the entrance of air under compression into the lower chamber to force the liquid therein into the upper chamber, and in this position permitting the outlet of air from the upper chamber, said valve in its other position permitting the inlet of air under pressure into said upper chamber to discharge the water therefrom and permitting the outlet of air from the lower chamber to permit the lower chamber to fill, and float actuated means within the upper chamber for controlling the movement of said valve and comprising means shiftable suddenly in one direction when the liquid within the upper chamber has risen to a predetermined level therein and shiftable suddenly in the other direction when the liquid within the chamber has descended to a predetermined point.

1,380,604. STEERING-WHEEL HAND-WARMING DEVICE FOR AUTOMOBILES AND MARINE AND AVIATING MACHINES. LEMAN F. STUMBAUGH, Denver, Colo. Filed Jan. 28, 1920. Serial No. 354,608. 2 Claims. (Cl. 237—12.3.)



1. A hand warming device for steering wheels comprising a pair of hollow hand grips attached to opposite sides of a steering wheel and lying outside of the same, an inlet pipe connecting similarly disposed ends of said hand grips, a T centrally located in said inlet pipe, an outlet pipe connecting the opposite ends of said hand grips, a T centrally located in said outlet pipe, means for supplying a heating medium to the T of said inlet pipe and comprising a section of flexible tubing and a valved pipe adapted to be connected to the exhaust pipe of an engine, and means including a section of flexible tubing and a pipe opening to the atmosphere for conducting the heating medium from the T of said outlet pipe.

1,380,605. LOCK-GARMENT. SAMUEL F. SWANTEES, St. Louis, Mo. Filed Feb. 5, 1919. Serial No. 275,195. Renewed Apr. 23, 1921. Serial No. 463,977. 2 Claims. (Cl. 2—142.)



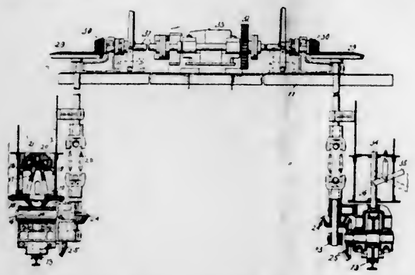
2. A garment of the class described comprising upper and lower encircling members, a waistband connecting the said member and provided with exterior and interior gripping faces.

1,380,606. WINDOW FOR VEHICLE-CURTAINS. RITCHIE O. TAYLOR, Detroit, Mich., assignor of one-half to Jack Heinze, Detroit, Mich. Filed May 10, 1920. Serial No. 380,069. 6 Claims. (Cl. 296—145.)



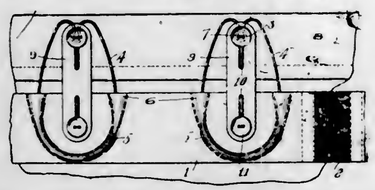
1. In a window for vehicle curtains, the combination with a curtain having a window opening, of a transparent closure for said opening, a frame providing a seat for said closure, a clamping member securing said frame to the curtain, and a retaining member for said closure covering the clamping member and secured independently of the latter to said frame.

1,380,607. TWO-WHEEL SWIVELING AND EQUALIZING CRANE-TRUCK. IVOR D. THOMAS, Cleveland Heights, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 4, 1919. Serial No. 328,504. 13 Claims. (Cl. 105—118.)



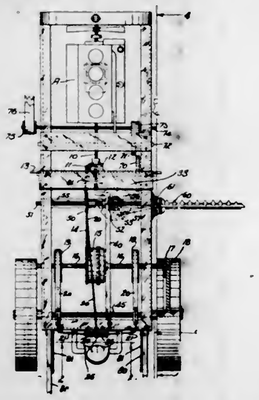
1. In combination with a crane structure, a two-wheel truck comprising a truck frame or casting, a load supporting spindle for holding the truck in upright position and supported in vertical position between the crane structure and truck so that the truck may have a swiveling action about its axis and said spindle having a connection with the truck whereby the truck may have an equalizing action about a different axis.

1,380,608. GARMENT-SUPPORTING BELT. ORVILLE C. THOMPSON, Rochester, N. Y. Filed July 18, 1919. Serial No. 311,788. 5 Claims. (Cl. 241—9.)



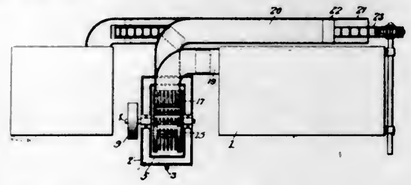
3. A belt provided with U shaped channels opening upwardly, and looped struts fitted in said channels to turn therein, said struts having garment engaging means at their swinging ends.

1,380,609. TRACTOR. EDGAR V. ULLRICH, Colorado Springs, Colo. Filed July 29, 1918. Serial No. 247,152. 2 Claims. (Cl. 180—17.)



1. The combination with a tractor having a gear shift, a differential and jack shafts extending from said differential, of braking mechanism for each jack shaft, a lever pivoted to move in planes at angles to each other, a connection between said lever and braking mechanism to operate the latter when the lever is moved in one plane, and a connection between the lever and said gear shift to operate said gear shift when the lever is moved in the other plane.

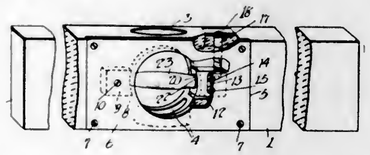
1,380,610. METHOD OF AND MACHINE FOR APPLYING A COATING TO CANS. OTTO VOSS, Honolulu, Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Filed Sept. 21, 1918. Serial No. 255,109. 8 Claims. (Cl. 99—8.)



1. The method of treating sealed cans of food stuffs, and the like, which consists in heating the cans to cook the contents and create a pressure within the cans in excess of the outside pressure, and applying a coating to the exterior of the cans during the continuance of the excess pressure within said cans.

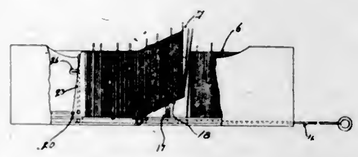
5. The combination with a cooker for cooking the contents of sealed cans, of means connected with the cooker for applying a liquid coating to the exterior of the cans before the temperature of the cans is materially reduced.

1,380,611. LEVEL. ROBERT WALKER, Toronto, Ontario, Canada. Filed May 27, 1919. Serial No. 300,066. 2 Claims. (Cl. 33—214.)



1. In a level, the combination with the level body having sighting orifices extending inwardly at the center of the level from all sides and a level glass tapered toward its ends, a block turnably supported within the level body having a level glass receiving recess into which one end of the level glass fits, an adjustable block carried in the level body at the opposite side of the sighting orifices having a level glass receiving recess into which the opposite end of the level glass fits, and means for adjusting the block within the level body.

1,380,612. CARD-RAISING ATTACHMENT FOR FILING-DRAWERS. WILLIAM E. WALKER, Denver, Colo. Filed May 7, 1919. Serial No. 295,366. 10 Claims. (Cl. 129—16.)



1. A card-raising device for filing drawers, comprising in combination with the drawer, a frame slidable in the drawer below the cards, a rod journaled in the frame and provided with a crank arm, and a plate hinged to the frame and adapted to be acted on by the crank arm to lift the cards.

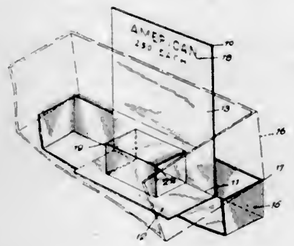
8. The combination with a filing drawer, of means longitudinally slidable in said drawer below the cards, a card raising device liftably mounted on said means, and a longitudinally disposed rod connected with the said means for actuating the raising device.

1,380,613. CONCRETE-REINFORCEMENT. MICHAEL J. WALL, Troy, N. Y. Filed June 22, 1916. Serial No. 105,179. 1 Claim. (Cl. 72—113.)



A reinforcing element for plastic structures comprising a bar having an enlarged base portion and a reduced upper portion, longitudinally disposed ribs on opposite sides of the bar, said reduced portion of the bar being provided with spaced rows of longitudinally alined incisions extending in both directions from the central point thereof and arranged in relatively staggered positions to form overlapping sections when the reduced portion of the bar is expanded in a single, vertical plane in the direction of the depth of the bar, said overlapping sections being permanently attached to each other to present a continuous, horizontal, top edge, said edge having a right angular transverse slit, the terminals constituted by the slit overlapping and of the same width when the reduced portion of the bar is vertically expanded.

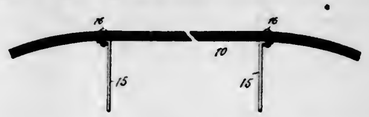
1,380,614. EASEL. NATHAN WARSHAW, New York, N. Y. Filed Jan. 17, 1919. Serial No. 271,724. 1 Claim (Cl. 211—28.)



The combination with a box having a body with a removable lid, of an easel consisting of a pliable plate creased transversely to provide two members one foldable upon the other and one of the members being held to the bottom interiorly of the box body so that the other member may be swung upwardly and downwardly outward of the box body, said pliable plate having in its central part crosswise of its crease spaced parallel slits to provide a strip which is also creased transversely intermediate its ends for being folded together between the members of the plate when said members are folded toward each other as well as assuming the shape substantially of an inverted L to provide a support protruding from the members of the plate when one of the members is swung outwardly of the box body.

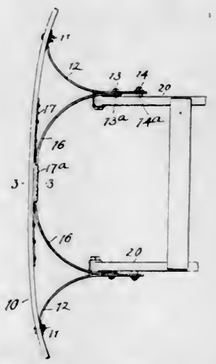
1,380,615. RESILIENT BUMPER-BAR. ELVERTON W. WEAVER, Cleveland Heights, Ohio. Filed Sept. 9, 1920. Serial No. 409,154. 3 Claims. (Cl. 293—55.)

3. A resilient bumper bar for automobiles comprising a plurality of bent laminæ glued together with the joints between them occupying substantially vertical positions, brackets for securing said bumper bar to an automobile,



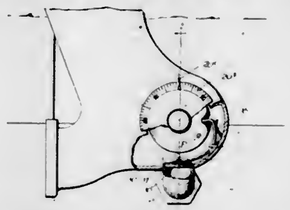
each bracket being secured against the inner face of the bumper bar, and bolts passing through said bumper bar from front to rear and through said brackets.

1,380,616. BUMPER-BAR. ELVERTON W. WEAVER, Cleveland Heights, Ohio. Filed Feb. 16, 1921. Serial No. 445,438. 7 Claims. (Cl. 293—55.)



2. An automobile bumper comprising a resilient bumper bar, two bracket bars whose front ends are bent outward and are fastened to the bumper bar and whose rear ends are substantially parallel and are adapted to be connected with the side frame members of an automobile, a resilient arch brace whose middle part lies behind and is in contact with the bumper bar and whose ends are connected to the respective brace bars at points such that the bumper bar and the arch brace are distorted and put under stress or tension.

1,380,617. AUTOMOBILE-THEFT-PREVENTING DEVICE. PERCY WELLIVER, Hereford, Tex. Filed Sept. 14, 1920. Serial No. 410,246. 6 Claims. (Cl. 251—6.)

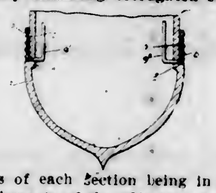


4. In an automobile theft preventing device of the character described, in combination with an engine of an automobile including a carbureter, an intake manifold and a crank case, a bypass leading from the intake manifold, intermediate the carbureter and the engine to the crank case.

1,380,618. OUTBOARD-CONDENSER. DAVID WESTFALL, New York, N. Y. Filed May 21, 1919. Serial No. 298,701. 1 Claim. (Cl. 257—26.)

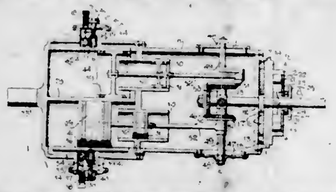
A steam condenser for ships comprising a chambered member extending along the hull of the ship, the outer wall

of said member being divided longitudinally into a series of longitudinally extending corrugated sections, the con-



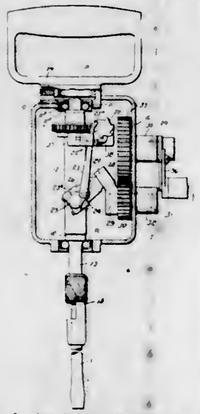
vexed elements of each section being in alinement with the concaved elements of the adjacent section.

1,380,619. SPEED-CHANGING MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed July 6, 1918. Serial No. 243,526. 6 Claims. (Cl. 192—59.)



1. In a speed changing mechanism, a driving shaft, a driven shaft, and means operatively connecting the driving and driven shafts including a plurality of non-communicative cylinders, a reciprocating piston in each cylinder, a mobile medium retarding the reciprocatory movement of the pistons, automatically regulated means offering a variable resistance to the movement of said medium, crank shafts operatively connected to the respective pistons and gearing connecting the crank shafts to the driving shaft.

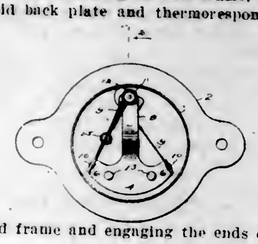
1,380,620. VALVE-GRINDING DEVICE. FORREST R WHITCOMB, West Somerville, Mass. Filed May 16, 1919. Serial No. 297,661. 8 Claims. (Cl. 74—14.)



4. A device of the kind described, comprising a tool spindle mounted for rotation, means for oscillating said spindle, and means for unidirectionally advancing said spindle step-by-step including a worm wheel and worm through which said oscillatory movement is transmitted, and a pawl and ratchet device for turning said worm connected for actuation by said oscillating means.

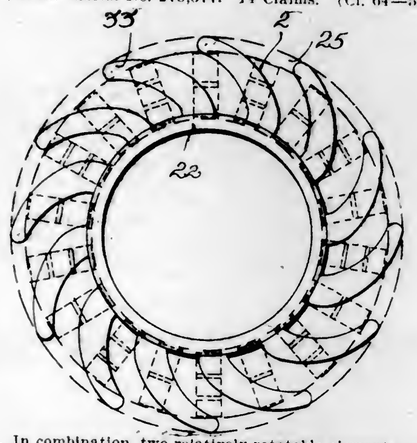
1,380,621. OVEN-THERMOMETER. HORACE R. WHITTIER, Plymouth, Conn., assignor to Cooper Oven Thermometer Company, Plymouth, Conn., a Corporation of Connecticut. Filed Dec. 3, 1920. Serial No. 427,956. 4 Claims. (Cl. 73—119.)

1. An oven thermometer having a back plate, a frame secured to said back plate, an arbor carrying a yoke rotatably supported by a bearing in said frame, and an end bearing in said back plate and thermoresponsive fingers



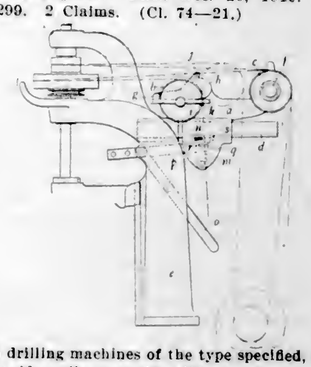
secured to said frame and engaging the ends of the yoke on the arbor.

1,380,622. ANTIFRICTION-BEARING. CHARLES A. WINN, Chicago, Ill., assignor to Chicago Bearings Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1919. Serial No. 275,377. 14 Claims. (Cl. 64—50.)



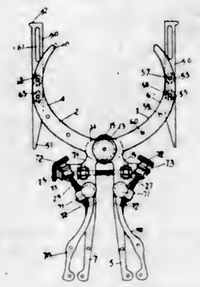
1. In combination, two relatively rotatable elements, one at least thereof comprising a thin walled sleeve, an antifriction thrust bearing interposed between said elements, comprising a relatively thin flat cage, antifriction rollers carried by the cage, a relatively thin flat race ring between the bearing and said sleeve, the sleeve being positioned against the inner edge of said ring, and outwardly projecting ribs on the sleeve for extending the ring backing surface at the end of the said sleeve.

1,380,623. ADJUSTABLE BELT-GUIDE FOR DRILLING-MACHINES. ISAAC HENRY WRIGHT, Salford, Manchester, England, assignor to Smith & Coventry Limited, Salford, England. Filed Dec. 16, 1919. Serial No. 345,299. 2 Claims. (Cl. 74—21.)



1. In drilling machines of the type specified, in combination, a guide pulley carrying slide, a rod upon which said slide is mounted, a pivoted locking catch upon the slide normally held in engagement with said rod, a hand operated link for moving the slide, the said link actuating the catch to disengage the same prior to moving the slide for releasing the belt tension, as set forth.

1,380,624. COMBINATION-CALIPERS. EDWARD WULZ, New York, N. Y. Filed June 9, 1920. Serial No. 387,660. 2 Claims. (Cl. 33—154.)



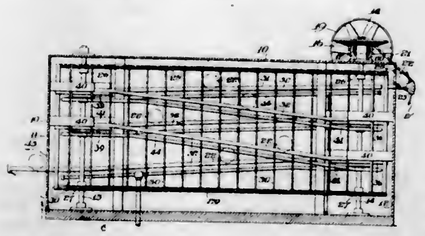
1. In a pair of calipers of the type described, a pair of extra legs attached to the principal legs thereof, swiveling connections between said extra legs and the principal legs, and means for regulating the position of each individual leg of the extra pair of legs with relation to the principal legs, so that when the principal legs have been adjusted an additional measurement can be made without disturbing said principal legs.

1,380,625. TIRE-PROTECTOR. MARVIN C. ALTMAYER, New York, N. Y. Filed June 4, 1919. Serial No. 301,716. 5 Claims. (Cl. 152—16.)



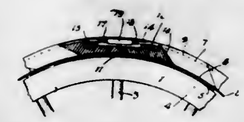
5. A tire protector adapted to be secured over the tread of a tire composed of overlapping metal plates, in combination with hollow metal blocks secured over holes in the plates, a coating of rubber vulcanized to the exposed surface of the plates and the sides of the blocks, said hollow portions of the blocks and holes in the plates forming an air cooling void in the protector adapted to cool the plates and blocks.

1,380,626. COOKING-MACHINE FOR CANNED GOODS. CHARLES H. AYARS, Salem, N. J. Filed Oct. 29, 1919. Serial No. 334,296. 3 Claims. (Cl. 193—8.)



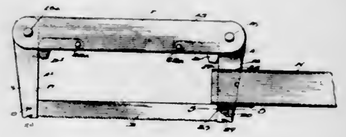
1. A machine of the character described including an elongated casing; a track within the casing and having sections adjacent the opposite sides of said casing, said sections extending in a zig-zag manner from the top to the bottom of said casing; and conveying means including belts at different levels having common upright members secured thereto and spaced apart and movable longitudinally adjacent the track sections at different levels whereby articles on said sections will be moved by said common upright members along all sections of the track from the top to the bottom; substantially as described.

1,380,627. EMERGENCY-TIRE. WILLIAM B. BANFIELD, Winnipeg, Manitoba, Canada. Filed Sept. 8, 1920. Serial No. 408,798. 2 Claims. (Cl. 152—23.)



2. A tire comprising a cushioning band adapted to encircle the rim of a wheel, a plurality of abutting tread sections secured upon said band and having the abutting faces thereof angularly disposed to the band and the rim of the wheel, said sections having the outer faces thereof grooved longitudinally to provide an encircling channel and certain of said sections having the abutting ends thereof recessed to conjointly provide a pocket communicating with said channel, a tie wire passing around the sections and contained within said channel and a tightening device connecting the ends of said wire and contained within said pocket.

1,380,628. FOLDABLE HACKSAW. LAWRENCE DUNSTON BARNER, Fort Bliss, Tex. Filed Mar. 5, 1920. Serial No. 363,439. 5 Claims. (Cl. 145—33.)



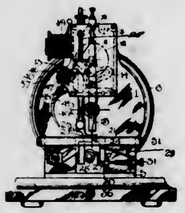
1. A foldable hack saw comprising, a frame, arms pivoted in the frame and capable of occupying folded and extended positions, a saw body, coacting means formed on the arms and on said blade for supporting the latter upon the arms when in extended position, means carried by said frame for locking the arms in extended position, and a handle detachably associated with one of the arms and adapted to partially house the frame.

1,380,629. KNIFE. ARTHUR R. BARNETT, Portland, Oreg. Filed Mar. 10, 1920. Serial No. 364,647. 6 Claims. (Cl. 30—9.)



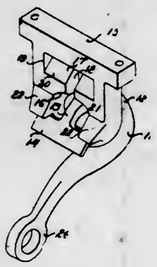
1. A knife comprising in combination a blade body, having downwardly projecting spaced members at or near its point and hilt, a removable cutting edge therefor adapted to be held in tension between the downwardly projecting spaced members, and having its back portion adapted to fit the lower edge of the blade body to form a continuous face, a handle therefor.

1,380,630. LOCK-STITCH SEWING-MACHINE. HERBERT ALFRED LUCAS BARRY, London, England, assignor to Silver Lock Stitch Sewing Machine Syndicate Limited, Bloomsbury, London, England, a British Limited Liability Company. Filed Dec. 11, 1920. Serial No. 430,007. 1 Claim. (Cl. 112—238.)



In a sewing machine having a head carrying a presser foot bar and a lever for lifting the same, a thread tension comprising a stud projection from said head, a pair of tension disks loosely mounted on the stud, a spring on said stud forcing one of said disks toward the other, a plate on said stud interposed between the outer disk and the spring and having a tail piece extending from one edge of the plate at right angles thereto to project into the path of the lever, and a cam surface on said lever engageable with the tail piece to move the plate against the action of the spring and thereby release the pressure on the plates.

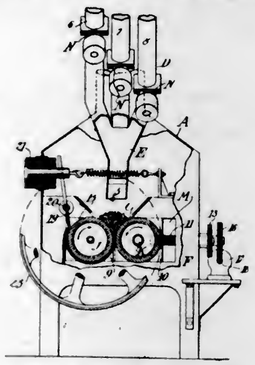
1,380,631. HOOKING DEVICE. WILLIAM MATHIS BATEMAN, Newark, Del. Filed July 3, 1920. Serial No. 393,921. 3 Claims. (Cl. 24—201.)



1. A device of the character described including a hook having an enlarged engaging end; and means for attachment with the hook including an aperture having an enlarged portion into which the enlargement of the hook is initially inserted whereby when tension is relatively imposed upon said means and hook, the enlargement of the hook will be moved into a position adjacent the smaller part of the aperture with the comparatively narrow portion of said hook in the small portion of the aperture, said means having a lug projecting therefrom, the part of the hook including said enlarged engaging end being of sufficient length to cause said enlarged portion of the hook to engage under the lug; substantially as described.

1,380,632. ROLLING-MACHINE FOR WORKING PLASTIC MATERIAL. WILLIAM CLARENCE BOWDEN, Middle Village, N. Y. Filed June 10, 1920. Serial No. 388,046. 11 Claims. (Cl. 18—2.)

11. In a machine for rolling plastic materials, the combination of coöperating rolls, a plurality of means for discharging materials thereto, means for periodically spacing the rolls, a dividing member to separate material adhering to a roll, and controlling means adapted to operate said discharging means, spacing means, and dividing means to compound a mixture of prescribed ingredients, to commingle the same to homogeneity, to recommingle the same and finally to sever and discharge the mixture.



1,380,633. TOOTHBRUSH-MARKER. ELMER J. BROWN, Rangeley, Me. Filed Sept. 24, 1920. Serial No. 412,526. 2 Claims. (Cl. 40—2.)

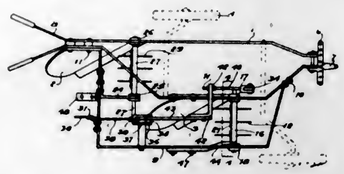


1. A tooth-brush marker comprising a thin elastic body adapted to surround and tightly grip the handle of a tooth-brush and of a transparent nature, and an identification card interposed between the holder and the tooth-brush handle.

1,380,634. PROCESS OF REMOVING DISCOLORING-DEPOSITS FROM MASONRY STRUCTURES. DOLARD CADIAUX, Lowell, Mass. Filed July 12, 1919. Serial No. 310,435. 3 Claims. (Cl. 91—68.)

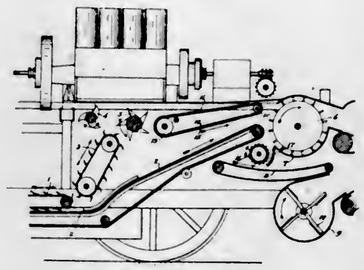
2. The process of treating stone, brick, etc., consisting in first cleaning the same by an application of mineral cleansing acid, thereto and second by the application of a mixture of essential oils and glycerin as will render the cleaned surface impervious to moisture without alteration of the natural appearance of the same.

1,380,635. MACHINE FOR ERADICATING QUACK-GRASS. WILLIAM EDWARD CLARK, Brandon, Manitoba, Canada. Filed Jan. 31, 1920. Serial No. 355,351. 2 Claims. (Cl. 97—43.)



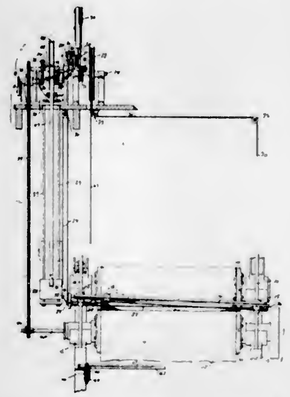
1. The combination with a gang plow frame and the plows thereof, of a side bar permanently secured to the furrow side of the plow frame and forming with the plow frame an extension frame, a front set of cutting disks carried by the extension frame and located in advance of the front plow, a rear set of cutting disks carried by the extension and plow frames and located in advance of the rear plow, an operating connection between the front and rear sets of disks, and a controlling lever connected to the rear set of disks, for simultaneously raising and lowering both sets of disks through the medium of the connection extending between the latter.

1,380,636. TRAVELING THRESHING-MACHINE. JACOB CLOVE, Calgary, Alberta, Canada. Filed Jan. 22, 1920. Serial No. 353,368. 5 Claims. (Cl. 130—27.)



1. In a threshing machine, the combination with a main cylinder and concave and feeding means for delivering material to be threshed to the cylinder, of an auxiliary cylinder and concave positioned adjacent the main cylinder and designed to receive and thresh the shattered material escaping downwardly between the feeding means and the main cylinder.

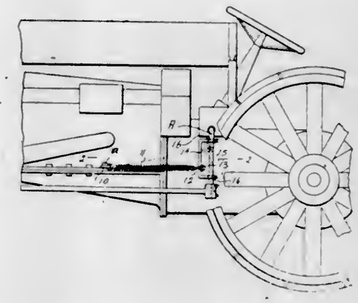
1,380,637. WET-MACHINE. HENRY A. CONSTANTINE, Niagara Falls, N. Y. Filed Jan. 31, 1919. Serial No. 274,332. 13 Claims. (Cl. 92—67.)



1. In a wet machine, a roll adapted to accumulate a deposit thereon, a cutter movable across the roll, means for forcing the cutter toward the roll during the cutting stroke, and means for retracting the cutter from the roll during the return stroke.

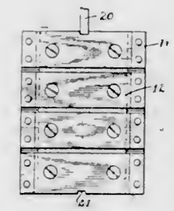
1,380,638. STEERING DEVICE FOR TRACTORS. ALBERT G. CRAWFORD, Iroquois, S. D. Filed Aug. 5, 1920. Serial No. 401,399. 4 Claims. (Cl. 280—87.)

1. The combination with a tractor having ground engaging, dirigible steering wheels, and a manually controlled steering mechanism including an arm, of a track detachably clamped to the arm and moving therewith,



a spring attached at one end to the frame of the machine and at its other end having a roller shiftably engageable with said track.

1,380,639. HEAD-BLOCK FOR HAY-BALERS. JOHN A. DAILING, Quincy, Ill., assignor of one-half to Anthony Badamo. Filed Feb. 13, 1920. Serial No. 358,531. 3 Claims. (Cl. 100—24.)



1. A head block for baling presses comprising a pair of blocks, slats secured on opposite faces of said blocks so as to form a rectangular space, a block adapted to be inserted in said space, and means for securing the first mentioned blocks and the slats to the second mentioned block.

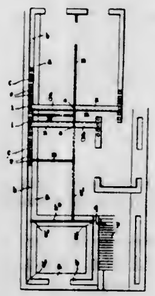
3. A head block for baling presses comprising a central block, a plurality of slats spaced apart and removably secured to opposite faces of the block by means of bolts passing entirely therethrough, a plurality of short blocks adjacent the long edges of the central block, said short blocks being permanently secured to the slats, and metallic U-shaped members secured around the ends of the slats and the short blocks.

1,380,640. MANUFACTURE OF RUBBER. SAMUEL CLELAND DAVIDSON, Belfast, Ireland. Filed Feb. 24, 1920. Serial No. 360,834. 2 Claims. (Cl. 18—50.)

1. A process for preparing raw rubber of high grade directly from rubber latex in a simplified manner and with the omission of evaporating drying or smoking which consists in the combination of several consecutive and, when so employed, conjointly operative treatments, as follows: first, treating the latex, as soon as practicable after being tapped from the rubber trees, with a dilute aqueous solution of alkalized phenol to preserve the latex in a fluid and sound condition for any required length of time prior to coagulation; second, adding thereto a dilute solution of a suitable acid in sufficient quantity to neutralize the alkalinity of said preservative treatment and acidify the latex, whereby nascent phenol is liberated and energetic coagulation of the contained rubber in the latex takes place, the bulk of the impurities originally contained in

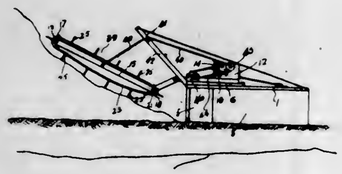
the latex remaining in solution in mother liquor; and third, subjecting the coagulum of rubber thus obtained to a mechanical dehydrating treatment, all substantially as hereinbefore described.

1,380,641. CONSTRUCTION OF PORTABLE HOUSES AND BUILDINGS. TEOTIMO DE FORTUNY Y DE CARPI, Barcelona, Spain. Filed May 28, 1920. Serial No. 385,055. 3 Claims. (Cl. 20—2.)



1. The method of constructing portable houses and buildings from loose structural members, which consists in forming the foundation of a series of slabs each slab having one or more grooves in its upper surface, the said slabs being so laid that a series of grooves are formed the positions of which coincide with the positions of the walls, forming the walls of a series of courses of building blocks which are interconnected and locked together by means of interlocking projections and recesses on the blocks, the lower course of such blocks having plain surfaces and fitting into the grooves in the foundation slabs, and forming each floor and the roof of the building of a course of girder-like members such members having projections and recesses at their ends corresponding with those of the building blocks whereby the said members are interlocked with the adjacent courses of building blocks.

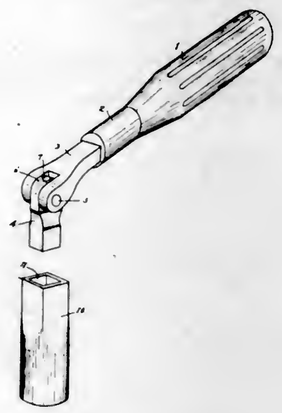
1,380,642. GROUND-SLUCING APPARATUS. JAMES WESLEY DUNHAM, Burnaby, British Columbia, Canada. Filed Mar. 4, 1920. Serial No. 363,299. 4 Claims. (Cl. 37—11.)



1. An apparatus of the class described comprising, a platform, mechanical means mounted thereon for loosening placer ground whereby the working of the same during hydraulicking is facilitated, and a sluiceway under the platform adapted to direct the loosened ground to a sluice box at its rear end.

1,380,643. WRENCH. SAMUEL EAGLE, Gilbert Plains, Manitoba, Canada. Filed Oct. 13, 1920. Serial No. 416,731. 1 Claim. (Cl. 81—58.)

A wrench comprising a handle having a bifurcated shank, a socket support having one end mounted and pivotally secured between the branches of the shank bifurcations and the other end squared, a nut engaging socket having a squared bore adapted to slidably receive the



squared end of the socket support therein, and means carried by the handle and engageable with the rounded end of the socket support to hold the latter in different positions.

1,380,644. DEVICE FOR HOLDING PRINTING-PRESS CUTTER-SHAFTS. FRED S. ENGLISH, New London, Conn., assignor to The Babcock Printing Press Manufacturing Company, New London, Conn., a Corporation of Connecticut. Filed Aug. 12, 1918. Serial No. 249,410. 1 Claim. (Cl. 164—61.)

In a printing press a device for cutting the sheets into sections as they are delivered from the impression cylinder and comprising upper and lower shafts, coöperating propelling and cutting devices on said shafts, springs acting to raise said upper shaft, levers for forcing down said upper shaft in opposition to said springs, springs for forcing said levers upwardly and means for adjusting the position of said levers, said levers having cams and adapted to effect the release and return of said upper shaft to position without disturbing the adjustment of said adjusting means.

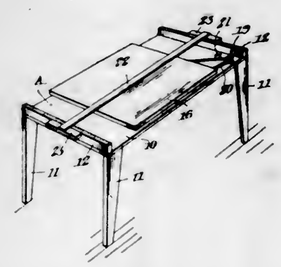
1,380,645. MOLD FOR RUBBER TIRES AND TUBES. HARRY E. FISHER, Mifflin township, Franklin county, Ohio. Filed Mar. 20, 1920. Serial No. 367,408. 1 Claim. (Cl. 18—38.)

A mold for a rubber tire member comprising in combination, a housing of circular form divided centrally in its plane to form two parts, and separable sections having molding surfaces seated in each of said housing parts,



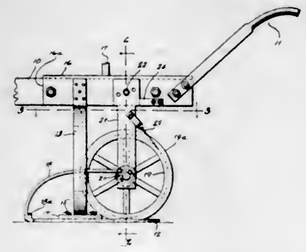
and means for securing said separable molding sections to the housing parts.

1,380,646. DRAWING-BOARD. GEORGE HAGAR GILCHRIST, Ottawa, Ontario, Canada. Filed Oct. 20, 1919. Serial No. 331,894. 1 Claim. (Cl. 88—1.)



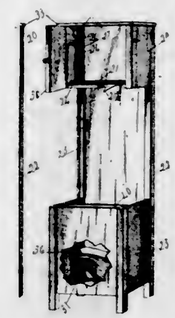
A drawing board comprising a table having end guide members, a drawing board, a pulley attached to the drawing board, a pin carried by the pulley, a bearing centrally located in the top of the table and designed to receive the pin, anti-friction rollers between the pulley and the table, a second pulley, an endless strap engaging the two pulleys and provided on the outer face with graduations, and a reflector on the table adjacent to the outer face of the strap whereby the graduated portion of the strap in front of the reflector will be reflected to show the angle of rotation of the drawing board, as and for the purpose specified.

1,380,647. VEGETABLE-TOPPING MACHINE. WILLIAM B. GRAHAM, Deaver, Wyo. Filed Aug. 6, 1920. Serial No. 401,599. 4 Claims. (Cl. 55—107.)



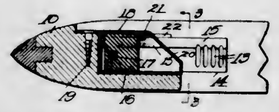
1. A vegetable cutter comprising a pair of laterally spaced topping knives having their cutting edges facing each other, a gage wheel running between the cutting portions of the knives and having peripheral ribs which are sharp to produce cutting edges, the level of said cutting edges coinciding with the level of the cutting edges of the knives, and a supporting means for the knives and the gage wheel.

1,380,648. TOWEL-DISPENSING CABINET. GEORGE E. HADLEY and WILLIAM E. RILEY, Louisville, Ky. Filed Sept. 23, 1920. Serial No. 412,185. 2 Claims. (Cl. 45—32.)



1. A towel dispensing cabinet including an upper compartment with means for opening, closing and locking the same, proper supports to retain said compartment at the desired elevation, a slotted opening in the bottom of said compartment, means for supporting a stack of towels, a receptacle for soiled towels, a guide member, part rigid and part flexible, the rigid part provided with perforations, the flexible part rigidly attached to the rigid part, and long enough to reach into the soiled towel compartment, said guide member having at the lower end a cotter-pin large enough to prevent the passage of the grommets in the towels, the upper compartment also having a spring latch holder for holding the guide member in proper position above said slotted opening, said opening being so formed that the bottom will support a stack of towels resting on the same but permitting a corner or a portion of each succeeding towel, from the bottom of the stack up, to fall in view and in such position so that said part may be readily grasped for the purpose of pulling said towel through said opening, all substantially as set forth.

1,380,649. LOOM-SHUTTLE. HUDSON W. HAKES, Millbury, Mass., assignor to Walter C. Watson, Leicester, Mass. Filed Apr. 27, 1918. Serial No. 231,063. 1 Claim. (Cl. 139—27.)

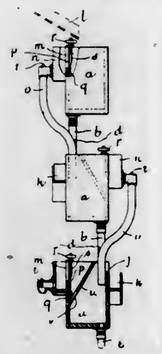


In a loom shuttle, a two-armed bobbin-holding spring, a bobbin-guiding retainer inclosing said spring, a spring-holding plate interposed between the upper edge of said spring and said retainer, said plate having a body portion and branched side portions extending forwardly to engage the arms of said spring and having an opening through its body portion, a separate spacing block held in fixed position between the sides of said spring, said block extending above said spring and fitting into said opening to position said plate and to positively prevent longitudinal or transverse movement of said plate relative to said block, and means to hold said parts in opertive relation in said shuttle.

1,380,650. APPARATUS FOR THE CONCENTRATION OF ORES. JAMES HEBBARD, Broken Hill, New South Wales, Australia, assignor to Minerals Separation North American Corporation, New York, N. Y. Filed Nov. 20, 1917, Serial No. 203,024. Renewed Mar. 26, 1921. Serial No. 455,980. 8 Claims. (Cl. 83—85.)

1. Froth-flotation ore-separating apparatus of the class in which the aeration and agitation are effected by by-

draulic action of a gravity flow of the ore pulp through successive separating vessels: comprising a level-regulating overflow for each vessel disposed at a lower level than



its concentrates overflow, and each level-regulating overflow (except the last) discharging directly into the next separating vessel in the series.

1,380,651. BROOMHOLDER. CHARLES KEMPER HUFF, Christiansburg, Va. Filed Jan. 30, 1920. Serial No. 355,105. 1 Claim. (Cl. 15—19.)

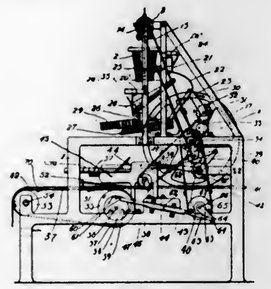


A broomholder comprising a handle having an interior bore, a nut held by a ferrule upon the bored end of said handle, an annulus slidable over said ferrule, said annulus being an extension of a flaring shaped shell, a flaring shaped block conforming in contour to said shell, and a bolt attached to said block and mating with said nut to draw said block into said shell and said annulus up over the ferrule and handle.

1,380,652. BREAD-MAKING MACHINE. ROGELIO GALLO HUIDOBRO, Mexico, Mexico. Filed Oct. 27, 1919. Serial No. 333,692. 5 Claims. (Cl. 107—9.)

3. In bread-making machinery, the combination of kneading mechanism; means for supplying lumps of dough thereto; mechanism for shaping the kneaded lumps, comprising a fixed lower shaper and an upper shaper slidable thereon; conveying mechanism operating in timed sequence with the upper shaper and including a cloth-supporting element adapted to be loaded with the shaped lumps; and a reciprocating comb for forming pockets in the cloth to receive the individual shaped lumps and space them from one another.

5. In bread-making machinery, the combination of a lower fixed kneader; an upper kneader slidable thereon; means for delivering lumps of dough to the space between said kneaders to be kneaded by the kneaders; shaping mechanism located beneath the kneaders and comprising a fixed, curved lower shaper and a slidable upper shaper; a pusher carried by the slidable kneader to force a kneaded lump of dough over the edge of the fixed kneader and thereby deliver it to the shaping mechanism; conveying mechanism located beneath the shaping mechanism for removing the shaped lumps from the machine; and a pusher



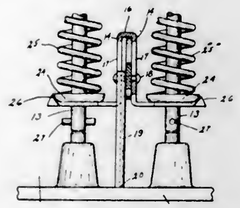
carried by the slidable shaper to force a shaped lump of dough over the edge of the fixed shaper and thereby deliver it to the conveying mechanism.

1,380,653. PIPE-CUTTER. DAVID KILGOUR, Jr., Vancouver, British Columbia, Canada. Filed Sept. 8, 1919. Serial No. 322,431. 2 Claims. (Cl. 81—192.)



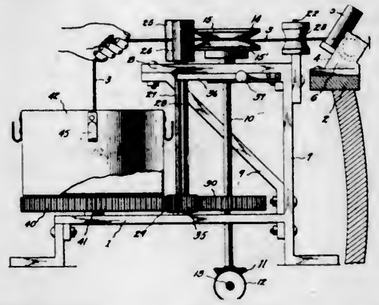
2. In a pipe cutter of the kind described, a cutter, a threaded handle bar controlling the cutter, a frame in which the handle bar is slidably mounted, said frame having a recess at one side of the handle bar, a threaded block mounted in said recess to move toward and from the handle bar to engage and disengage therewith, said frame and block having engaging surfaces inclined to the axis of the handle bar and positioned to resist lengthwise movement of the block, and a lever pivoted in the frame and having controlling connection with said block.

1,380,654. VALVE-LIFTER. NILS G. LARSON, Attleboro, Mass. Filed Feb. 19, 1920. Serial No. 360,015. 2 Claims. (Cl. 29—86.3.)



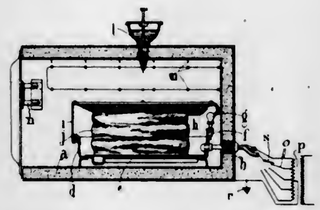
1. A valve lifter having a fulcrum post, a cam pivoted in said post, and a spring engaging member guided on said post and adapted to be operated by the movement of said cam to compress said spring.

1,380,655. HALIBUT-FISHING DEVICE. WALTER J. LARSON, Wrangell, Alaska. Filed Apr. 27, 1920. Serial No. 376,967. 6 Claims. (Cl. 254—137.)



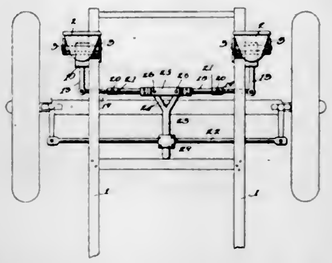
1. In a device of the character described, a revolubly driven winding head, about which a halibut line may be extended to be drawn in by operation of the head, and a pair of revolubly driven coacting rollers for taking up the line as it is delivered from the head and for maintaining it taut about the head, for the purpose set forth.

1,380,656. ELECTRIC OVEN FOR COOKING PURPOSES. CLARENCE HAROLD LAUTH, Islington, London, England. Filed June 16, 1920. Serial No. 389,472. 10 Claims. (Cl. 219—35.)



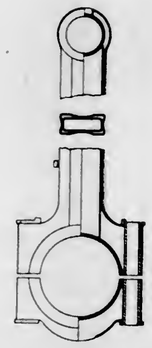
1. An electric oven for cooking solid food comprising a casing having a door for closing the casing and electrodes mounted in the casing and capable of being brought into direct contact with the solid food intended to be cooked, as set forth.

1,380,657. DIRIGIBLE HEADLIGHT. WALTER MARCELLUS LAWRENCE, OSCAR BLEDSOE LAWRENCE, and NEALY SUMMERS LAWRENCE, Birmingham, Ala. Filed Dec. 9, 1919. Serial No. 343,652. 3 Claims. (Cl. 240—62.)



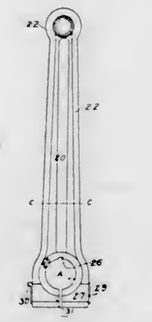
1. In a motor vehicle, the combination with the swinging headlights and the rod connecting the headlights for constraining them to swing together, of a plate for connecting said rod with the spindle connecting rod, said plate having one end connected to the rod and arranged to move vertically with respect thereto within limits, a sliding connection between the other end of the plate and the spindle connecting rod, and means for clamping the plate to the said spindle connecting rod, said sliding connection comprising clamping sections, one of said sections being secured to the spindle connecting rod, and means for clamping the other section to the first named section.

1,380,658. CONNECTING-ROD. HEBRON BERNARD LAYMAN, New York, N. Y., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 24, 1917. Serial No. 157,273. 17 Claims. (Cl. 74—17.)



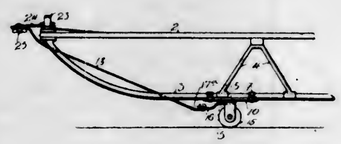
12. A connecting rod comprising a one-piece sheet metal shell having a single longitudinal joint, and provided with a bearing; said rod being adapted to be separated through the bearing to form a cap, the rod and cap portions having attaching bosses.

1,380,659. LINK, LEVER, AND THE LIKE. HEBRON BERNARD LAYMAN, New York, N. Y., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 26, 1916, Serial No. 93,606. Renewed Apr. 8, 1918. Serial No. 227,373. 18 Claims. (Cl. 74—5.)



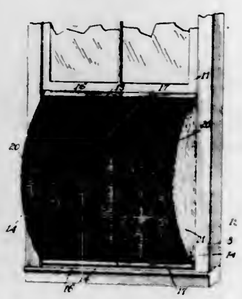
1. A link lever or the like having closed pin and shaft ends, composed of substantially similar abutting parts having flanges, said flanges having parts in association therewith to receive and connect with a shaft and prevent independent rotational movement with respect thereto.

1,380,660. ATTACHMENT FOR SLEDS. LOUIS LEICHT, Yonkers, N. Y., assignor of one-half to John Walter, Yonkers, N. Y. Filed July 28, 1919. Serial No. 313,727. 3 Claims. (Cl. 280—8.)



3. A device of the class described comprising clamps adapted to be attached to a sled runner, pivoted wheels or rollers attached to said clamps and having steering arms for turning said wheels or rollers on the pivots, a bar pivotally connected with said arms to cause them to move in parallelism, a forwardly extending rod having a fixed connection with said bar, a lever extending crosswise of said body and pivoted to said body at its middle portion, an arch or bow on said lever extending forwardly of said lever and a sliding, pivotal connection between the forward end of said rod and said bow for the purpose set forth.

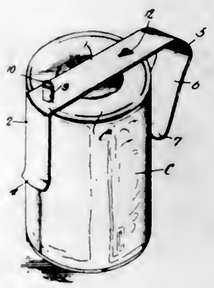
1,380,661. SCREEN. WILLIAM LEININGER, New York, N. Y., assignor of one-half to John J. Leininger, Long Island City, N. Y. Filed June 5, 1920. Serial No. 386,875. 3 Claims. (Cl. 156—14.)



2. In a screen of the class specified, a pair of screen sections of woven wire fabric, rigid members to which each fabric section is attached, resilient members attached to the edge portions of the fabric sections to extend at right angles to the rigid members and secured at opposite ends to the rigid members, the rigid members of one screen section being arranged with a slideway and the rigid members of the other screen section arranged to slidably engage in the slideways of such rigid members whereby the screen sections are slidably adjustable relative to each other and both sections are adapted to have flexing movement.

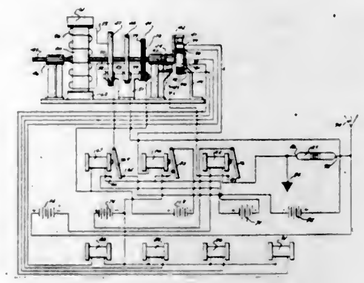
1,380,662. DISPENSING ATTACHMENT FOR CANS. PLUS RAND LEVI, Charleston, W. Va. Filed Feb. 18, 1920. Serial No. 359,530. 2 Claims. (Cl. 221—23.)

1. A device of the class described comprising a resilient strip-like body to extend across the top of a can, one end portion of the body being extended downwardly for engagement against one side of the body of the can, the other end portion of the body being extended downwardly and inwardly to provide a handle portion, and beyond the handle portion being bent to extend upwardly to provide a gripping jaw portion to engage the opposite side of the can, a spout extending through the body near the first mentioned end portion thereof and above and below the



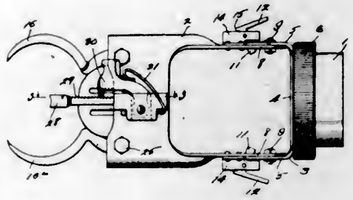
said body and provided with a piercing lower end, and a piercing element formed up from the body near the said handle.

1,380,663. WIRELESS CONTROL DEVICE. JOHN LINDGREN, Lemont, Ill. Filed May 16, 1918. Serial No. 234,876. 11 Claims. (Cl. 250—2.)



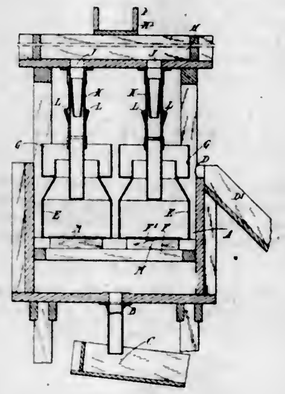
1. In a wireless control device, the combination of means at the sending station for generating jig-currents at regular intervals, with an armature rotatable in an electric field at the receiving station; means for utilizing the jig-currents to cause a partial rotation of the armature; and automatic means at the receiving station for completing the rotation of the armature during each interval.

1,380,664. ARTIFICIAL HAND. WILLIAM E. LUKE, Kalispell, Mont. Filed Apr. 21, 1920. Serial No. 375,509. 6 Claims. (Cl. 3—12.)



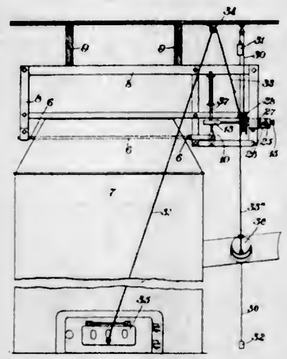
4. In an artificial hand, a supporting frame, fingers pivoted thereto, a slide mounted on the frame and operable between the fingers to effect an opening and a closing thereof, and a pressure piece connected with the slide and adapted to be engaged by an object received between the fingers to effect a closing of the latter thereon.

1,380,665. APPARATUS FOR THE CONCENTRATION OF ORES. FLEURY JAMES LYSTER, Broken Hill, New South Wales, Australia, assignor, by mesne assignments, to Minerals Separation North American Corporation. Filed Nov. 18, 1916. Serial No. 132,058. 15 Claims. (Cl. 83—85.)



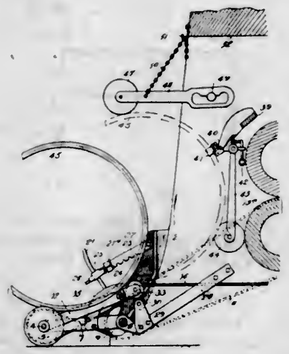
1. Apparatus for the concentration of ores by flotation separation comprising in combination a separating box having a residues outflow at the bottom and an overflow at the top, a vessel mounted therein with its lower end immersed in the liquid and having an outlet at the bottom into the separating box and an overflow launder at the top, and a feed box having a discharge pipe at the bottom forming a pulp-operated air injector delivering into the said vessel.

1,380,666. DRAFT-REGULATOR FOR FURNACES. ROBERT MCCANN, Columbus, Ohio. Filed Mar. 10, 1921. Serial No. 451,250. 5 Claims. (Cl. 236—10.)



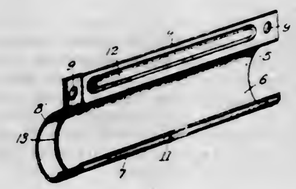
1. In means for regulating the temperature of a furnace or the like having a draft controlling device, the combination of a thermostatic bar, a stop block operated by said thermostatic bar, a rotary bladed member arranged to be released and arrested by said stop block and means for driving said bladed member and operating the draft controlling device.

1,380,667. RUBBER-TIRE-BUILDING MACHINE. ROBERT MCCLENATHEN, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Filed June 23, 1920. Serial No. 391,097. 11 Claims. (Cl. 154—9.)



1. In a machine of the character described, mounted rim carrying rollers adapted to be raised and lowered while carrying a tire rim, means to revolve said rollers and to raise and lower said rollers and rim.

1,380,668. DOOR-HANGER TRACK AND HOUSING. CECIL R. MARTIN, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed June 20, 1918. Serial No. 241,045. 6 Claims. (Cl. 16—7.)

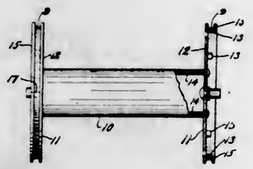


1. In a door hanger track and housing structure for supporting sliding doors, a plurality of sheet metal housing sections, a sectional track on said housing sections, integral therewith, so that each entire track and housing section is formed from a single piece of sheet metal, and a door hanger traveling on and supported entirely by said track, the ends of said sections being lapped one upon the other and secured together, thereby to provide a lap-joint between adjacent sections, and to stiffen the housing against sagging under the weight of the door, so that the housing sections are in themselves sufficient to support said track, the lap-joint thus formed by the integral ends of the sections having provisions at the upper end thereof for securing the housing to a building, and the tread of said track being formed in cross section to both stiffen the structure and prevent lateral displacement of the hanger therefrom.

1,380,669. BEAM-HEAD. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 23, 1919. Serial No. 319,346. 3 Claims. (Cl. 139—56.)

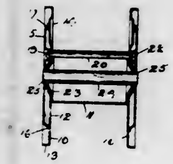
2. In an article of the character described, a head member comprising a sheet metal disk, a circular flange mem-

ber L-shape in cross section and secured at one edge to the face of said disk a distance within the periphery



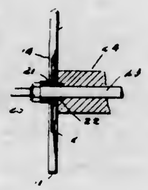
thereof and portions of said disk being bent from its normal plane to engage and centrally support said flange thereon to form an annular peripheral groove.

1,380,670. REEL OR BEAM. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 9, 1919. Serial No. 322,699. 4 Claims. (Cl. 242—77.)



1. In a reel or beam, a body portion having a head at either end, each of said heads comprising a main plate and an auxiliary supporting plate, said auxiliary plate having a stiffening inturned edge or flange engaging and supporting said main plate adjacent its periphery, and bolts passing through both of said plates to exert a pressure on said auxiliary plate about its outer edge and also binding said heads to said body.

1,380,671. BEAM-HEAD. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 11, 1919. Serial No. 323,144. 4 Claims. (Cl. 139—56.)



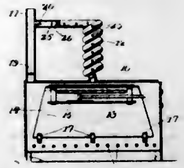
1. A beam-head comprising a main plate, an auxiliary plate having an inwardly-turned peripheral stiffening flange positioned against the outer surface of said main plate said flange being recessed at intervals to fit over said ribs, and means for binding said auxiliary plate to said main plate causing the outer edge of said auxiliary plate to support said main plate.

1,380,672. BOBBIN. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Oct. 15, 1919. Serial No. 330,865. 3 Claims. (Cl. 242—120.)



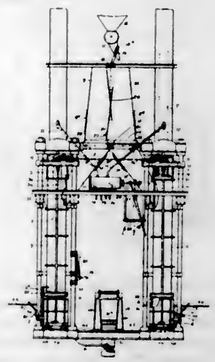
1. A braider bobbin having a non-metallic tubular body portion, a metal head at one end of said body having ratchet teeth said head being provided with a central opening into which one end of said body is fixed.

1,380,673. HEATING DEVICE. HENRY L. MUNSON, Fort Wayne, Ind. Filed Feb. 2, 1921. Serial No. 441,942. 1 Claim. (Cl. 126—94.)



A heater comprising an outer inclosing shell, a flue connected with the shell, a casing within the shell and consisting of a horizontal upper wall spaced below the upper wall of the shell and downwardly and outwardly inclined side walls, said side walls having their ends spaced from the end walls of the shell and their lower edges spaced inwardly from the side walls of the shell and upwardly from the bottom of the shell, the side walls of the shell having air inlet openings below the lower edges of said side walls of the casing, and brackets on the side walls of the shell supporting the side walls of the casing.

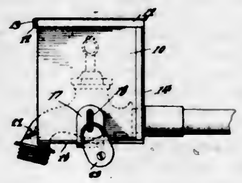
1,380,674. MACHINE FOR COMPRESSING AND PACKING COMMODITIES. HENRY LAMONT MURRAY and ALFRED GUY, Palmerston, New Zealand, assignors to Joseph Nathan and Company, Limited, Wellington, New Zealand. Filed Nov. 24, 1919. Serial No. 340,223. 18 Claims. (Cl. 226—71.)



1. A machine for the purpose set forth, comprising a pair of mutually balanced hydraulic rams; molds below

said rams; a pair of bins between said rams; inclined chutes from said bins to said molds; a bent plate keyed on a rocking shaft and adapted to close the bottom of one bin only at a time; a hopper; a pivoted chute from the hopper over said bins; gearing between said rocking shaft and said pivoted chute whereby movement of the latter over a bin synchronizes with the closing of the bottom of said bin by said bent plate; slides at the lower ends of said chutes adapted to open the latter to the molds on the ascent of ram heads within the molds and to close said chutes on the descent of said ram heads; reinforcing tin containers placed below said molds, and means for controlling the operation of said rams.

1,380,675. GAS-COCK AND FAUCET PROTECTOR. HARRY H. MYERS, Bessemer, Ala. Filed Nov. 30, 1917. Serial No. 204,754. 1 Claim. (Cl. 70—123.)

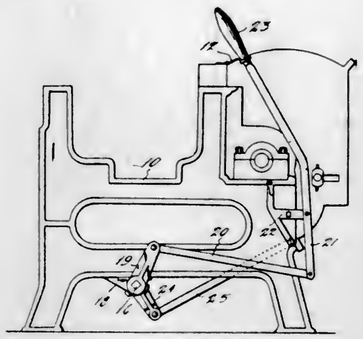


A guard for faucets comprising a housing having top, front, rear and side walls, said front and rear walls having notches in their lower edges adapted to receive the body of a faucet adjacent the inlet and outlet ends thereof, a plate hinged to the lower edge of one side wall and foldable against the other side wall beneath the faucet, said plate having a notch in its front edge registering with the notch in the front wall whereby the notch in the front wall and the notch in the plate embrace the downturned portion of the faucet, and locking means for securing the plate in closed position.

1,380,676. METHOD OF HEAT-TREATING STEEL. WALTER C. PETERSON, Detroit, Mich. Filed May 19, 1919. Serial No. 298,348. 8 Claims. (Cl. 148—13.)

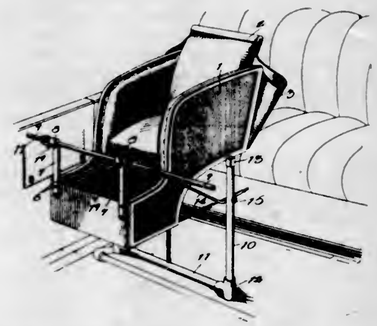
1. In a process of treating steel articles the steps consisting in heating the article to a predetermined temperature above its critical point at a predetermined rate and then quenching, said temperature and rate being such that the article after being quenched assumes the same dimensions as previous to the heating.

1,380,677. LIFT FOR GIN-BREASTS. CHARLES R. P. POOL, Dallas, Tex. Filed May 22, 1920. Serial No. 383,475. 5 Claims. (Cl. 13—9.)



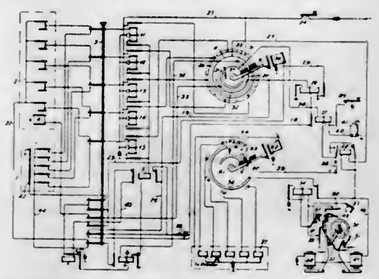
3. In a gin breast lifting attachment, the combination with a rock shaft extending longitudinally of the gin frame at a point remote from the gin breast, a bearing supported from the gin frame and receiving the rock shaft, said bearing having a stop abutment, a lever pivotally mounted upon the gin frame, a rocking connection between the lever and the rock shaft, a crank rigidly secured to the rock shaft and having a stop abutment to engage the first named stop abutment, when the crank is swung upwardly past dead center, and a lifting rod engaging the gin breast and pivotally connected with said crank.

1,380,678. BABY-CARRIAGE ATTACHMENT FOR MOTOR-VEHICLES. ABRAHAM ROBERT PRICE, Oregon City, Oreg. Filed Oct. 27, 1920. Serial No. 419,853. 4 Claims. (Cl. 155—10.)



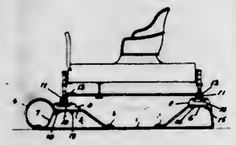
1. An attachment of the character specified, comprising a body having at its front end hooks for engaging the robe rail of an automobile, a pair of connected standards for supporting the rear of the body and adapted to rest upon the floor of the automobile, and coil springs arranged between the body and the standards, inclined braces having hooks at their forward ends for engaging the robe rail and pivoted to the standards near their rear ends, the body having a depending arm near its rear end and the springs being arranged between the rear ends of the braces and the arm and between the arm and the connection between the standards.

1,380,679. PRINTING-TELEGRAPH SYSTEM. PAUL M. RAINEY, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1918. Serial No. 233,288. 4 Claims. (Cl. 178—23.)



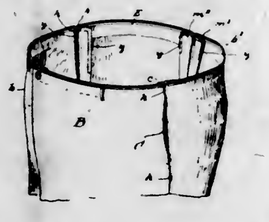
1. A signaling system comprising a line, a plurality of stations having character recording devices associated with but normally disconnected from said line, a rotary distributer at each of said stations, means at each of said stations selectively and automatically to establish a line of communication between said station and any of the character recording devices through the instrumentality of said distributer, whereby a message may be transmitted to and recorded by said selected character recording device under the control of a single operator.

1,380,680. SLEIGH-RUNNER. ANDREW REID, Moosomin, Saskatchewan, Canada. Filed Sept. 8, 1920. Serial No. 408,859. 6 Claims. (Cl. 280—14.)



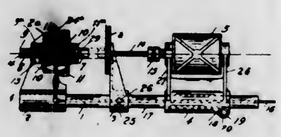
1. In a runner, a shoe having the front and rear ends turned backwardly on themselves and fastened to the intermediate portion of the runner and formed to present front and rear elevated horizontally disposed bearing faces, a beam mounted on each bearing face, a hub mounted on each beam and means demountably securing the hub and beam to the bearing face in each instance.

1,380,681. TROUSERS. BENJAMIN CARDENAS REYES, San Antonio, Tex., assignor of one-half to Maurice J. Roos, San Antonio, Tex. Filed Nov. 21, 1919. Serial No. 339,533. 1 Claim. (Cl. 2—122.)



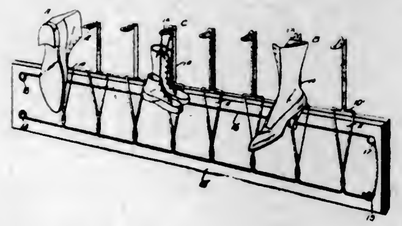
Trousers, comprising a body portion provided with side pockets and a waist-band, the lower portion of the body having side seams sewn upward to points a considerable distance below the bottom of the side pockets and having openings extending in rear of the side pockets through the waist-band, said openings being each provided on its side next the side pocket with sufficient material to be turned and on its opposite side with a flap of considerable width adapted to be folded on various lines to adjust the width of the waist-band and the body of the trousers in rear of the side pockets.

1,380,682. DRILL. GABRIEL E. ROHMER, Brooklyn, N. Y. Filed Apr. 30, 1919. Serial No. 293,729. 5 Claims. (Cl. 77—7.)



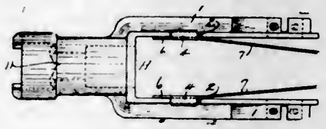
1. In a drilling apparatus, a support, a drill mounted upon said support, a housing secured on the support, a part movable through said housing and having work engaged upon said part within the housing to axially move gaging upon said part within the housing to axially move said part and effectively engage the work-engaging means with the work, and means associated with said part adapted to automatically establish and maintain a positive locking action to prevent retrograde movement thereof and positively lock the work holding means in its effective position.

1,380,683. SHOE-RACK. FLORENCE E. SANDERS, Benson, Minn. Filed Jan. 14, 1920. Serial No. 351,446. 1 Claim. (Cl. 211—14.)



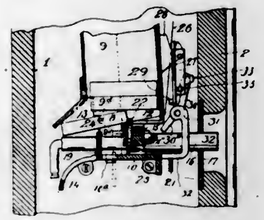
A shoe rack formed from a single length of wire and including a horizontal elongated rectangular base frame adapted for attachment to a support, vertical parallel arms emanating from one of the longer sides of the frame and being twisted at their points of emanation from the said side and being disposed in divergent relation from said points to the approximate centers of said arms, the arms being thence extended upwardly in parallel proximity and connected by a laterally extending and downwardly bowed hight portion.

1,380,684. TROLLEY-HARP. ROY C. SHOWALTER, Altoona, Pa., assignor of one-fifth to Scott S. Crane and two-fifths to John P. Reilly, Altoona, Pa. Filed Mar. 15, 1921. Serial No. 452,500. 6 Claims. (Cl. 191—61.)



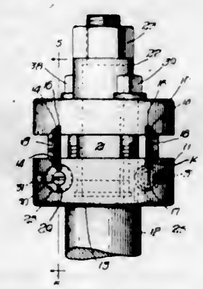
1. In a trolley harp, the combination with the trolley harp arms, of contact springs having relatively yielding gripping fingers for engaging with opposite sides of the arms of the harp.

1,380,685. VENDING-MACHINE. ELIJAH F. SPAULDING, Brooklyn, N. Y., assignor to Arthur Zimtbaum, Brooklyn, N. Y. Filed Dec. 9, 1919. Serial No. 343,506. 11 Claims. (Cl. 194—80.)



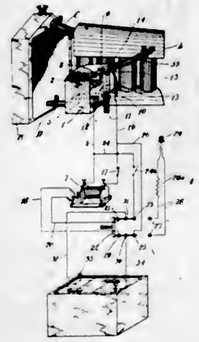
1. A vending machine comprising a magazine for articles, a coin receiver below the magazine having spaced openings for coins, a stop for coins slidably carried by said receiver between said openings, said stop having opposite edges to coincide with said openings when the stop is in one position to retain coins in the openings, said stop having notches on opposite sides to coincide with said openings when the stop is in another position to release the coins, and means to cause said stop to be shifted to coin retaining and releasing position.

1,380,686. CUTTER-HEAD. JOHN STANLEY STULL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1919. Serial No. 295,626. 5 Claims. (Cl. 144—231.)



1. In a cutter head, a plurality of cutter knives each provided upon one edge with a locking surface, separable collar members, clamping means for securing said cutter knives between said collars, and combined locking and adjusting means associated therewith and removable therefrom adapted to coöperate with the locking surface on said cutter knives to control the adjustment thereof and to retain said cutter knives against longitudinal movement independently of the clamping means, said means adapted for removal from said clamping means without affecting the proper clamping of the knives thereby.

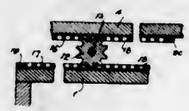
1,380,687. AUTOMATIC HEATING SYSTEM. EUGENE WINTON SUSNICH, Wellsville, Ohio, assignor to Charles E. Webster, Wellsville, Ohio. Filed Feb. 25, 1920. Serial No. 361,232. 1 Claim. (Cl. 219—38.)



In combination with an internal combustion engine including a water jacket, a radiator having its upper water compartment connected to said jacket, a casing having an upper water compartment and a lower water compartment communicating with the water jacket and the lower water compartment of the radiator respectively, tubes connecting the upper and lower compartments of said casing, heating coils mounted between said tubes, a source of supply of electrical energy connected to said coils, and means interposed to the circuit of said source of supply of electrical energy for closing said circuit when the temperature of the water flowing through said casing falls below a predetermined degree.

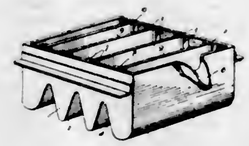
1,380,688. STORAGE-BIN. CHARLES EVERETT SWEENEY, Osborne, Manitoba, Canada. Filed June 24, 1920. Serial No. 391,460. 3 Claims. (Cl. 211—6.)

1. The combination with a receiving casing, a pullout bin normally contained within the casing and a freely movable carrying roller interposed between the bottom of the bin and the bottom of the casing and adapted to support the weight of the bin, of the means associated with



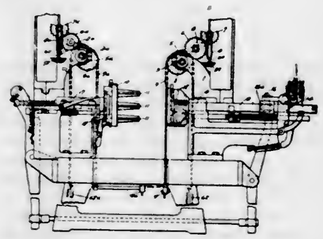
the ends of the roller, the bottom of the bin and the bottom of the casing for maintaining the roller at all times in a position at right angles to the direction of travel of the bin.

1,380,689. CASCADE-PAN. LUDWIG A. THIELE, Columbus, Ohio. Filed July 15, 1920. Serial No. 396,565. 3 Claims. (Cl. 23—1.)



1. A pan for use in the concentration of sulfuric acid comprising a body portion formed to include an open top, vertical side walls and a deeply corrugated bottom, and a discharge spout provided at one end of said pan.

1,380,690. NAILING-MACHINE. ARCHIBALD B. TOZER, Erie, Pa., assignor, by mesne assignments, to Reed Manufacturing Company. Filed June 21, 1917. Serial No. 176,069. 10 Claims. (Cl. 1—10.)

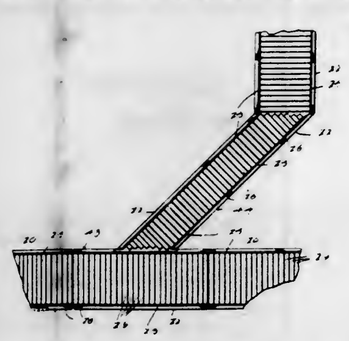


10. In a nailing machine, the combination of a nail feeding device; a swinging hammer having a major portion of its driving force incident to its momentum and having its momentum stopped by the material operated upon, said hammer being constructed and arranged to take a nail from the device and to carry the same to the work; a spring for actuating the hammer in a driving direction; means comprising a continuously operating power shaft for tensioning and releasing the spring; and a controlling device for said means.

1,380,691. PORTABLE SECTIONAL CONVEYER. JAMES D. TUOHY, Oak Park, Ill. Filed Aug. 11, 1916. Serial No. 114,442. 2 Claims. (Cl. 193—55.)

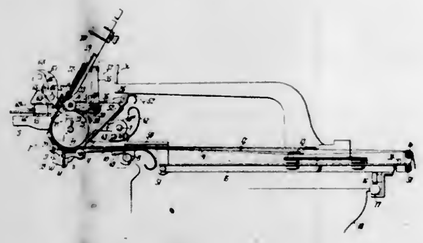
1. A conveyer comprising a plurality of frames arranged in endwise relation, means for detachably securing the frames together, rollers journaled to each of the frames and having one of their ends projecting beyond

one of the sides of the frames, sprocket wheels secured to said ends of the rollers, a sprocket chain trained over



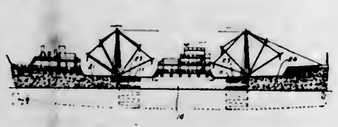
the sprocket wheels of the frames, a motor secured to the under side of the frames, and sprocket wheels secured to the motors and engaging the sprocket chains.

1,380,692. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 15, 1919. Serial No. 330,817. 31 Claims. (Cl. 197—126.)



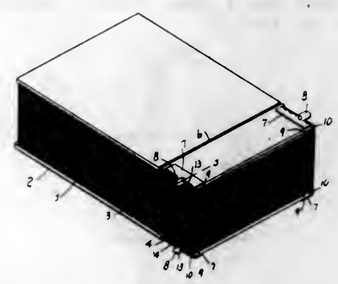
1. In a typewriting machine, in combination, a revoluble platen, a guide to direct webs to the lower part of said platen, a guide to direct a record-sheet to the lower part of said platen between the same and said webs, main feed-rollers to press said webs and record-sheet against said platen, an auxiliary feed-roll for holding said record-sheet in engagement with said platen, line-spacing means for said platen, and means for retracting said main feed-rollers from said platen and concomitantly operating said line-spacing means to feed said record-sheet independently of said webs.

1,380,693. COMPOSITE SHIP. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Co., Boston, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1917. Serial No. 207,054. 8 Claims. (Cl. 114—65.)



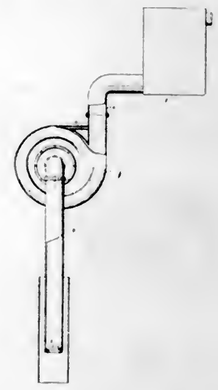
5. A mid-ship portion of standard steel ship construction, combined with and jointd to fore and aft bodies formed by concretion by casting the hull portions thereof of concrete material.

1,380,694. FLEXIBLE BOUND BOOK. FRANK J. WILKINS, Cincinnati, Ohio. Filed Jan. 15, 1920. Serial No. 351,549. 2 Claims. (Cl. 129—18.)



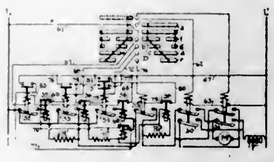
1. In a book of the character described, covers and leaves therefor, the leaves provided with recesses at their rear side edges, a spring for fitting into said recesses, and clips for holding said springs onto the covers.

1,380,695. PROCESS OF AND APPARATUS FOR PUMPING LIQUID AND GAS. CLARENCE C. WILSON, Corcoran, Calif. Filed Aug. 18, 1919. Serial No. 318,210. 1 Claim. (Cl. 103—43.)



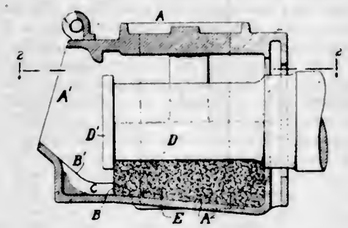
The combination of a centrifugal pump, a suction pipe leading to said pump, a non-return valve in said pipe, an outlet pipe from the pump, a tank in free communication with said pipe and of sufficient size to hold the contents of the pump, and a passage leading from the upper portion of the pump to the outlet pipe.

1,380,696. MOTOR-CONTROLLER. CHARLES W. YERGER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 23, 1919. Serial No. 305,968. 10 Claims. (Cl. 172—179.)



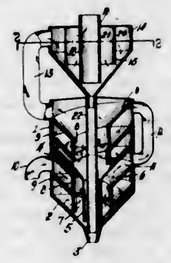
1. In a controller for electric motors, the combination with a plurality of resistance sections adapted to be connected in series in the motor circuit, of a plurality of electro-responsive switches adapted to short circuit certain of said sections progressively while maintaining other of said sections in circuit, thereafter to reinclude certain of said excluded sections in parallel with the section or sections retained in circuit, and finally to exclude all of said sections, and control means for said switches, including interlocks providing for operation thereof only in a predetermined sequence, for effecting the aforestated functions.

1,380,697. JOURNAL-BOX. JACOB J. ZELL, Philadelphia, and AXEL S. VOGT, Altoona, Pa. Filed Mar. 11, 1919. Serial No. 281,910. 3 Claims. (Cl. 64—24.)



1. A journal box formed with a packing retaining shoulder extending up from its bottom in approximately the vertical plane of the end of the journal to be inclosed in the box.

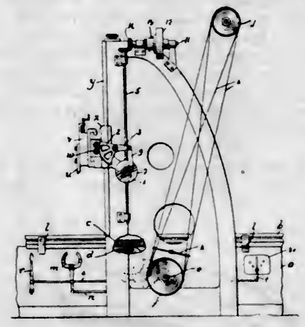
1,380,698. DUST-COLLECTOR. FRANK M. ANSPACH and FRANK L. MYERS, Toledo, Ohio. Filed May 20, 1920. Serial No. 382,747. 4 Claims. (Cl. 183—34.)



1. In a dust collector, a casing having an outlet at its top and a conical bottom with an outlet at its center, a conical spiral flange extending around within the interior of the casing and forming a central vertical passageway and coöperating with the casing to form a spiral passageway with an inlet at its upper end and an outlet at its lower end into the central passageway, each convolution of the spiral passagewny having restricted communication at its inner bottom edge with the vertical passageway for the escape therein of some air and the heavier particles of dust from the spiral passageway, the vertical passageway communicating at its bottom with the bottom outlet and at its top with the top outlet whereby particles of dust pass downward through the central passageway and bottom outlet and the air current passes upward through the central passageway and through the top outlet.

1,380,699. PLANER. GEORGE H. BENZON, Jr., Jenkintown, Pa., assignor to William Sellers & Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 18, 1920. Serial No. 389,812. 7 Claims. (Cl. 90—49.)

1. A metal working machine comprising means for reciprocating the cutting tool and the piece to be cut relative to each other, means for reversing the motion at the end of each stroke, electrically controlled feeding mechanism for shifting the cutting tool at the end of each complete reciprocation, and means for preventing the electrically controlled feeding mechanism from getting out of timed relation with the reciprocating means.



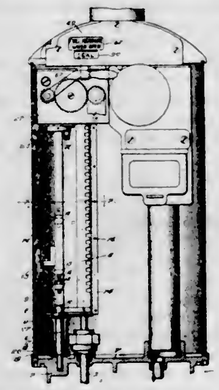
1,380,700. REFRACTORY MATERIAL AND PROCESS OF MAKING THE SAME. CHARLES H. BREERWOOD, Philadelphia, Pa. Filed Mar. 11, 1918. Serial No. 221,656. 4 Claims. (Cl. 106—9.)

1. The process of making refractory substances adapted for use in making refractory linings or walls of furnaces, crucibles and the like, which consists in introducing material adapted to form a sinter in a finely dicided state into a furnace, mixing with it small pieces of material to which the finely divided substance is adapted to adhere in its passage through the furnace to form balls, and subjecting it in such form to such heat and for such a length of time, as to make the substance refractory.

1,380,701. PROCESS FOR MAKING DOLOMITE BRICKS. CHARLES H. BREERWOOD, Philadelphia, Pa., assignor to Ceplay Cement Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1919. Serial No. 308,823. 9 Claims. (Cl. 18—47.5.)

1. The process of making dolomite bricks which consists in grinding dolomite containing a small amount of iron exceedingly fine, burning the mixture at a sufficiently high temperature to amalgamate or vitrify it, re-grinding the burnt mixture exceedingly fine, compressing it under great pressure into the desired shape and burning it at a temperature sufficiently high to amalgamate and vitrify the brick.

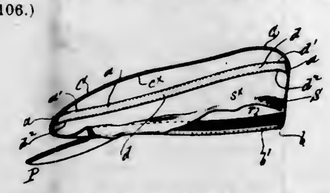
1,380,702. POSITIVE-STROKE PUMP MECHANISM. ROBERT P. CALLARD, Fort Wayne, Ind. Filed Apr. 18, 1918. Serial No. 229,343. 18 Claims. (Cl. 221—103.)



5. The combination with a reciprocable member, of oppositely inclined bearing means adjacent the member,

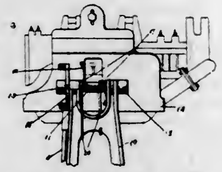
spring-pressed rollers coöperating with said bearing means to prevent movement of the member in opposite directions, a longitudinally movable rod, a member carried thereby having a projection to engage one but not both of the rollers at the same time, adjustable stops carried by the rod, and a stop arm carried by the reciprocable member and movable between the stops for moving the rod at the end of the stroke of the reciprocable member to release the clutch roller which permits the reverse movement of the reciprocable member.

1,380,703. CAP. JULIUS CARLSON, Brooklyn, N. Y. Filed Aug. 30, 1920. Serial No. 406,964. 1 Claim. (Cl. 2—106.)



A cap of the character designated, formed with side cover sections and linings the rim edges of which are inturned and stitched together only on the inturn, together with a vizor the inner edge of which is interposed between and stitched to said inturned rim edges of the side cover sections and lining thereof, and also together with an annular "size" stiffener one edge of which is stitched to said inturned rim edges of the side cover sections and linings thereof by the stitching that secures said vizor in place, for the purpose described.

1,380,704. MOTOR BLOCK-STAND. JOSEPH S. CARSWELL and AMIL R. HAMMOND, Boone, Iowa. Filed Sept. 24, 1920. Serial No. 412,605. 2 Claims. (Cl. 29—89.)



1. In a motor block stand, the combination of a base, a platform pivotally mounted upon the base and designed to receive a motor to be repaired, and two torsion springs interposed between the platform and the base, and so arranged that when the platform is tilted in either direction both of the springs will be brought under progressively increased tension during such tilting movement, to thereby cushion the platform against falling movement in either direction, and also to exert spring pressure in a direction tending to return the platform to normal position after it has been tilted in either direction, for the purposes stated.

1,380,705. ANTISLIPPING SHOE FOR HORSES. EDWARD A. CONNER, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,580. 4 Claims. (Cl. 24—170.)



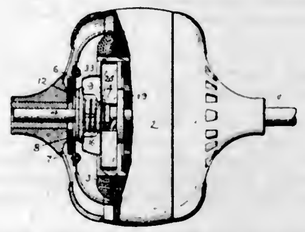
1. In an anti-slipping shoe for horses, a tread portion provided with two free ends adapted to be drawn toward each other over the front of the hoof, one of said ends being provided with an eye, a strap buckle comprising a base plate provided at each end with a strap anchorage, flexible connection between one of said anchorages and one of said free ends, a cam mounted on supports extending from said base plate, said cam being adapted to rotate on an axis parallel with said base plate and transversely thereof, a cam lever provided at its free ends with a strap aperture, the radius of the cam being less than the perpendicular from said axis to said base plate, and the angle formed by the lever of the cam being such as to permit said cam to be oscillated in an arc intersecting the said perpendicular, a strap anchored to the other of said anchorages and rove through an eye in the other of said free ends, adapted to pass freely beneath said cam when the said lever is in elevated position and to be compressed between said cam and said base plate when the lever is in depressed position.

2. In an anti-slipping shoe for horses having a tread portion provided with two terminals adapted to be drawn toward each other over the front of the hoof, a buckle connected end to end with one of said terminals, a flexible member connected to the opposite end of said buckle adapted to be rove through an eye in the other of said terminals, said buckle comprising a base plate and a bell crank lever having a short arm and a long arm disposed with respect to each other at an obtuse angle, said lever being pivotally mounted over said plate and transversely thereof and at such an elevation therefrom as to leave clearance between the free end of said short arm and said plate, the amount of said clearance being such as to cause said flexible member to be compressed between said short arm and said plate when the long arm is depressed and the said flexible member is passed between the said short arm and the said plate.

3. In an anti-slipping shoe for horses having a tread portion provided with two terminals adapted to be drawn toward each other over the front of the hoof, a buckle connected end to end with one of said terminals, said buckle comprising a base plate and a bell crank lever having a short arm and a long arm disposed at an obtuse angle with respect to each other, said lever being pivotally mounted over said plate and transversely thereof and at such an elevation from said plate as to leave clearance between the free end of said short arm and said plate, said long arm being provided with an eye at its free end and a flexible member connected to the opposite end of said buckle and adapted to be rove through an eye in the other of said terminals, thence between said short arm and said base plate and thence through said eye in said long arm.

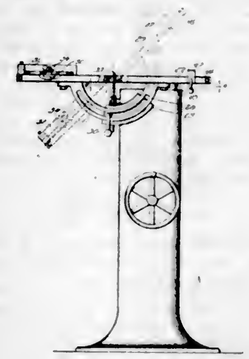
4. In an anti-slipping shoe for horses having a tread portion provided with two terminals adapted to be drawn toward each other over the front of the hoof, a buckle comprising a base plate and a bell crank lever having a short arm and a long arm disposed at an obtuse angle with respect to each other, said bell crank lever being pivotally mounted over said plate and transversely thereof and at such an elevation from said plate as to leave clearanec between the free end of said short arm and the said plate, said long arm being provided at its free end with an eye whereby a strap having connection with the other of said terminals may be rove through the clearance space beneath said short arm and thence through said eye.

1,380,706. CENTRIFUGAL SWITCH. ALFRED N. EDEBURN, Cleveland, Ohio. Filed Nov. 4, 1919. Serial No. 335,627. 17 Claims. (Cl. 200—80.)



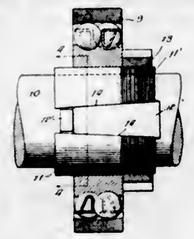
1. A centrifugal switch, comprising separable contact members, a centrifugal element acting in its centripetal movement to press said members into contact, and a centrifugal element and co-acting means adapted to effect a snap break of contact between said members.

1,380,707. SAW-MOUNTING. VICTOR F. FEHRM, Chicago, Ill. Filed July 30, 1919. Serial No. 314,305. 1 Claim. (Cl. 143—35.)



In a device of the character described, the combination with a saw table and a saw vertically adjustable to project a greater or less degree above the table; a housing forming a columnar support for the table and having within the same guide brackets; a frame comprising parallel rods longitudinally slidable in said brackets; a cross bar at the upper ends of said rods carrying bearings for the saw shaft, and a cross bar carrying a motor adjustable above lower ends of said rods for adjusting a belt connecting the motor and said saw shaft; an elevating screw within the housing parallel to said rods and connected to the frame, the shaft projecting through the housing and a gear to operate said elevating screw.

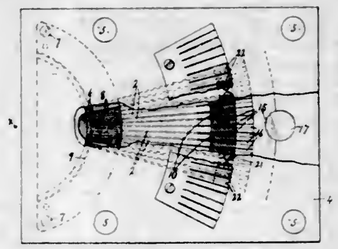
1,380,708. BALL-BEARING-LOCKING DEVICE. CHARLES FREDERICK FORD, Chicago, Ill. Filed Apr. 15, 1920. Serial No. 374,161. 9 Claims. (Cl. 287—52.)



1. A ball bearing locking device comprising, in combination, a shaft, a sleeve on the shaft divided by a wedge space, a wedge key in said wedge space, a bearing mounted on the sleeve and wedge, and a collar on the sleeve and key adapted to be tightened against the bearing to tighten the key in the wedge space and lock the bearing on the shaft.

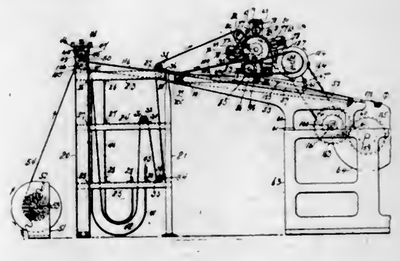
1,380,709. METHOD OF FORMING AND ALINING TYPE ON THE TYPE-BARS OF TYPEWRITING-MACHINES. FREDERICK GANSERT and HERMAN GANSERT, Jr., Syracuse, N. Y. Filed Oct. 27, 1920. Serial No. 420,046. 1 Claim. (Cl. 199—80.)

The herein described method of forming and alining type on the type bars of typewriting machines, consisting in supporting the type receiving portions of the several bars in fixed spaced relation within a suitable type-mold



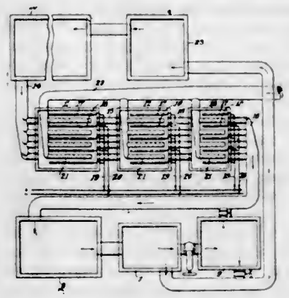
and then casting the type on the bar in a position to cause them to be properly alined for printing, when the bars with the type thereon are assembled in the machine.

1,380,710. CUTTING-MACHINE FOR CLOTH AND OTHER MATERIAL. EDWARD GUY GOBEN, New Orleans, La., assignor to The E. V. Benjamin Company, Inc., New Orleans, La., a Corporation of Louisiana. Filed Dec. 8, 1919. Serial No. 343,391. 5 Claims. (Cl. 164—68.)



1. In a cutting machine the combination of supporting beams each with a dove-tail guide slot in the upper face thereof, a pair of housings each with a dove-tail projection supported upon said beams, the said projections registering with said guide slots, cutting devices carried by said housings, and bolts with dovetail shaped heads extending through said housings and the heads thereof engaging said dovetail guide slots.

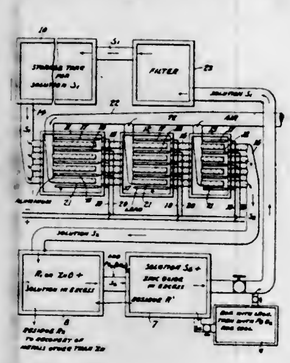
1,380,711. ELECTROLYTIC PRODUCTION OF ZINC. ARTHUR E. HALL, Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed July 15, 1915. Serial No. 39,977. 18 Claims. (Cl. 204—15.)



1. The continuous and cyclical process of producing metallic zinc by electrolytic deposition, comprising deliv-

ering to a cascade of deposition cells having lead anodes a neutral solution of a zinc salt, containing chlorin in suitable form; electrolyzing the solution with successively higher current densities, whereby zinc is deposited in metallic form and the acid of the zinc salt liberated, and lead peroxid and chloric acid are produced; removing the lead peroxid from the cells; treating with an excess of acidic solution from the cascade the residue left from previous treatment of an excess of zinc-bearing material, whereby the zinc of said residue is substantially all dissolved and the solution left acidic; treating with the acidic zinc-bearing solution fresh zinc-bearing material in excess, thereby neutralizing the solution, precipitating iron and similar impurities, and leaving zinc-bearing residue for treatment with an excess of acidic solution from the cascade as described above; treating more or less of the neutral solution to purification to remove other impurities; and returning the neutral solution, with the purified portion thereof, to the cascade of deposition cells.

1,380,712. PURIFICATION OF ZINC-BEARING SOLUTIONS. ARTHUR E. HALL, Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 7, 1916. Serial No. 70,717. 8 Claims. (Cl. 204—15.)



1. The process of producing zinc by electrolytic deposition, comprising (*a*) electrolyzing a zinc salt solution, whereby metallic zinc is deposited and the acid with which it was combined is liberated and the solution rendered acidic; (*b*) adding iron in soluble form to the acidic solution in amount equal to about .044 lbs. of ferric sulfate to each gallon of the solution; (*c*) treating an excess of zinc-bearing material with the solution, whereby zinc is dissolved from the material and the acid neutralized and any antimony present is precipitated; (*d*) and returning the neutral and now antimony-free solution for electrolysis.

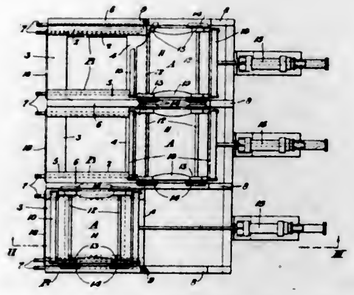
2. The herein described method of removing antimony from a zinc-salt solution, comprising adding iron in soluble form to the extent of about .044 lbs. of ferric sulfate per gallon of solution, and treating the solution with zinc-bearing material in amount sufficient to cause precipitation of antimony.

3. The herein described method of removing antimony from an acidic zinc sulfate solution containing an oxidizing agent, comprising adding ferric sulfate, and treating the zinc-bearing material in amount sufficient to render the solution alkaline, whereby antimony and iron are precipitated.

4. A process of treating zinc-oxid-bearing material which comprises first subjecting an excess of each solution containing free sulfuric acid and containing an oxidizing reagent, to the action of a deficiency of zinc-oxid-bearing material to dissovle substantially all the zinc values therefrom, adding ferric sulfate in amount equivalent to several times the amount of antimony compounds contained in the solution, and treating the solution with an excess of zinc-oxid-bearing material, such excess being sufficient to produce an alkaline solution substantially free from antimony, and removing the solution from contact with the undissolved zinc-oxid-bearing material.

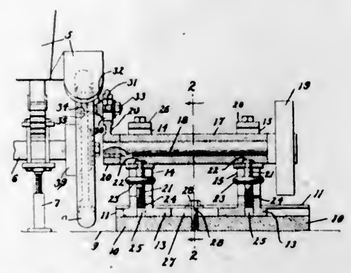
5. A process of treating zinc-oxid bearing material which comprises first subjecting an excess of solution containing free sulfuric acid and containing an oxidizing reagent, to the action of a deficiency of zinc-oxid-bearing material to dissolve substantially all the zinc values therefrom, adding ferric sulfate in amount equivalent to several times the amount of antimony compounds contained in the solution, and treating the solution with an excess of zinc-oxid-bearing material, such excess being sufficient to produce an alkaline solution substantially free from antimony, removing the solution from contact with the undissolved zinc-oxid-bearing material, and thereafter boiling the said liquor with metallic iron, to completely remove the dissolved antimony.

1,380,713. SOAKING-PIT. BENJAMIN P. HAZELTINE, Wheeling, W. Va. Filed Nov. 8, 1920. Serial No. 422,449. 5 Claims. (Cl. 263—44.)



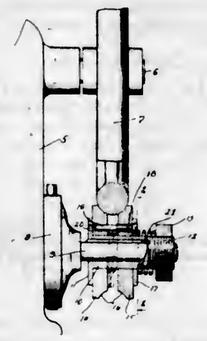
1. In a soaking pit, the combination with the side walls, of top plates, and means for artificially cooling said plates.

1,380,714. POWER-TRANSMITTING DEVICE. HARRY H. HARTUNG, Boston, Mass. Filed June 26, 1919. Serial 306,770. 13 Claims. (Cl. 74—106.)



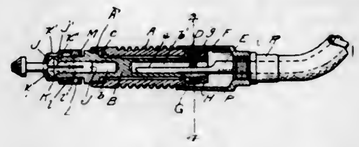
9. A power transmitting device, comprising a base member; a standard member slidably secured to said base member and provided with a longitudinal bearing; a rotatable shaft supported in said bearing; a crank arm secured to one end of said shaft for rotating therewith and provided with an adjustable crank pin adapted to adjustably engage the driving element for said device, a power transmitting member secured to said shaft for driving an auxiliary apparatus; and means for securing said slidable standard member in fixed relation with said base member.

1,380,715. SEWING-MACHINE PULLEY. CHARLES W. H'DOUBLER, Racine, Wis. Filed Mar. 26, 1920. Serial No. 368,970. 9 Claims. (Cl. 74—26.)



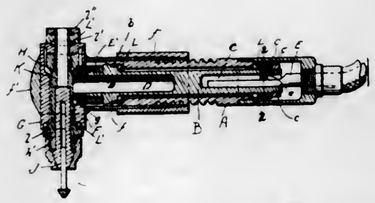
1. A device of the class described, comprising a pair of opposed disks, yieldable means disposed between the disks to normally tend to urge the same apart, and means yieldably resisting the movement apart of the disks under the action of said first mentioned means.

1,380,716. BALL-BEARING HANDPIECE FOR TOOLS. CLAUDE A. HERMAN, Bridgeport, Conn. Filed June 7, 1920. Serial No. 387,113. 5 Claims. (Cl. 32—15.)



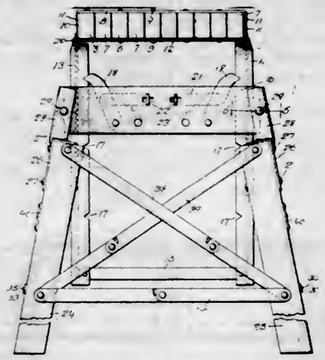
1. A handpiece comprising a casing, a stem formed with sockets in each end and being arranged to rotate in said casing, means for rotating said stem, means for fastening said stem rotating means in one of said sockets, a clutch carried by the other socket, and means for operating said clutch, said clutch operating means including an externally threaded sleeve having a slot, a ball adapted to travel in said slot, and means for causing longitudinal movement of said sleeve.

1,380,717. ANGLED HANDPIECE. CLAUDE A. HERMAN, Bridgeport, Conn. Filed June 8, 1920. Serial No. 387,400. 7 Claims. (Cl. 32—11.)



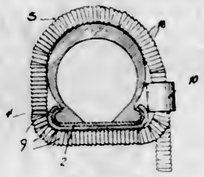
2. A handpiece comprising a casing, a rotatable stem arranged within said casing and having driving means adapted to rotate said stem connected at one end thereof, a tool carrier, and means for detachably connecting said stem to said tool carrier.

1,380,718. TRESTLE. MEYER HERMAN, Chicago, Ill. Filed June 11, 1919. Serial No. 303,334. 3 Claims. (Cl. 304—6.)



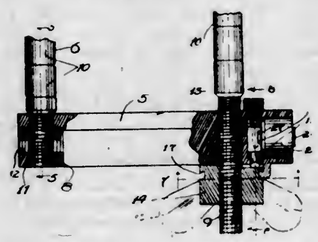
1. A device of the character described providing in combination, a top support, having pivoted at each end thereto a leg structure, each structure comprising a pair of parallel legs; a sub-leg structure in which said parallel legs are vertically adjustable, comprising a pair of pivoted, laterally-diverging legs, a pair of ears extending from the laterally diverging legs, a pair of longitudinally diverging legs, pivoted to said ears, and folding braces to hold the legs in their extended positions.

1,380,719. LOCKING DEVICE. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1919. Serial No. 322,438. 4 Claims. (Cl. 70—17.)



1. A locking device comprising a block, an armored cable including a cable and a series of rings therearound, means for connecting one end of the armored cable to the block, said block having an aperture therein for the passage of the other end of the armored cable therethrough and a locking member adapted releasably to engage a shoulder on one or other of the rings to retain the cable in position in said aperture.

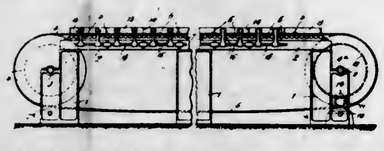
1,380,720. LOCKING DEVICE. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1919. Serial No. 322,440. 5 Claims. (Cl. 70—17.)



3. A locking device comprising a bar, a cable having threaded terminals, said bar having two threaded aper-

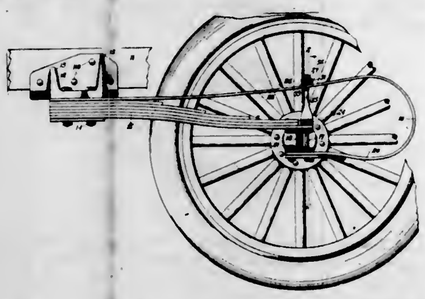
tures at one end for alternative engagement with one terminal, one of said apertures being transversely and the other longitudinally arranged within the bar, said bar also having an aperture at the other end for the free passage of the other terminal therethrough, a nut for engagement with the projecting end of the last mentioned terminal, and a lock adapted normally to prevent detachment of the nut from said terminal.

1,380,721. PLASTER-SLAB-MOLDING MACHINE. FRANK MIHILL JOHNSON, Mitcham, England, assignor of one-half to the Firm of Cafferata & Co., Newark-upon-Trent, England. Filed Dec. 15, 1919. Serial No. 345,020. 4 Claims. (Cl. 25—99.)



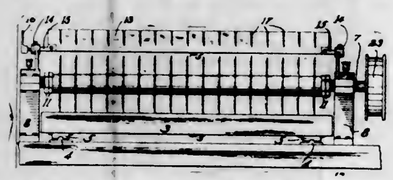
1. A plaster slab molding machine comprising a molding table, an endless conveyer, one run of which passes over said table, to constitute a mold base, swinging members disposed adjacent the lateral edges of the belt and adapted to form mold walls, removable plates, disposed transversely of the table between said swinging members to constitute other mold walls and means for moving the conveyer over the table.

1,380,722. SPRING AND SHOCK-ABSORBER. STEPHEN A. KOST and ALBERT L. DANIEL, Buffalo, N. Y. Filed Sept. 29, 1919. Serial No. 327,093. 4 Claims. (Cl. 267—45.)



3. A vehicle spring and shock absorber comprising a vehicle frame; a primary spring; a U shaped secondary spring secured to said frame; a vehicle axle connected to the lower arm of said secondary spring; a yoke connected at its lower end to said primary spring and provided with a presser bar adapted to normally and adjustably bear downwardly against the upper arm of said secondary spring; and means for longitudinally adjusting either the upper or the lower arms of said secondary spring.

1,380,723. MACHINE FOR CUTTING PLASTIC MATERIALS. DAVID KUPFER, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,394. 1 Claim. (Cl. 107—22.)



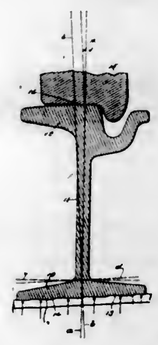
A device of the kind described comprising a support, a table movable at various rates of speed along tracks on the support, a series of rotatable disks above the table for cutting tacky plastic material resting on the table as the latter is traversed beneath said disks, means for rotating the disks at a high rate of speed relative to the speed of the table movement, and means for cleaning said disks pivoted above the disks and adapted to be locked out of operative position.

1,380,724. TAKE-UP AND TENSION ATTACHMENT FOR AUTOMOBILE STEERING DEVICES. LEROY J. LINDSAY, Seymour, Iowa, assignor to Charles Wesley Bryant, Centerville, Iowa. Filed July 29, 1920. Serial No. 399,685. 4 Claims. (Cl. 280—95.)



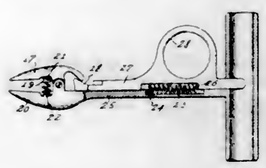
1. The combination with an automobile steering mechanism, of clips designed to be detachably secured to the steering levers, a connecting device pivoted to said clips between their ends, and means for adjusting the said connecting device for holding the said clips toward each other.

1,380,725. RAILWAY-RAIL. JOHN LUNDIE, New York, N. Y., and WILLIAM R. DUNHAM, Jr., New Haven, Conn. Filed Nov. 16, 1920. Serial No. 424,391. 21 Claims. (Cl. 238—125.)



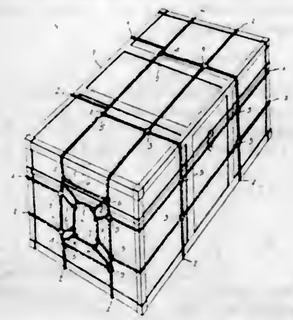
19. An inclined railway rail, in which its base is provided with stepped seating surfaces.

1,380,726. DENTAL FORCEPS. WILLIAM A. LURIE, New Orleans, La. Filed Aug. 10, 1920. Serial No. 402,535. 6 Claims. (Cl. 32—34.)



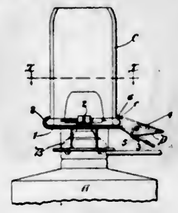
3. In a forceps for gripping teeth and the like an independent pivoted jaw adapted to coöperate with a fixed jaw for gripping an object held between the said jaws, a spring for holding the jaws apart normally, and a finger-controlled member coöperating with the movable jaw for causing the said movable jaw to grip the object held between the said jaws.

1,380,727. TRUNK-CHAIN. CHARLES K. MATTHEWS, Portland, Oreg. Filed June 29, 1920. Serial No. 392,858. 3 Claims. (Cl. 190—27.)



1. In a trunk chain, the combination of a plurality of chains having rings at their terminals, said chains beginning at one end of the trunk, encircling the trunk in vertical and horizontal directions at right angles to the edges of said trunk and returning to within a short distance of the starting point, a short chain end secured in one of said rings, having a snap hook at the other end, adapted to slip through the rings of the free chain ends and hook in at the point of beginning.

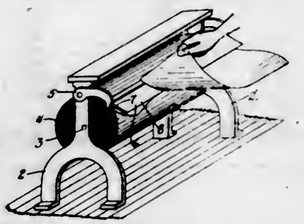
1,380,728. LAMP-BURNER. AUGUST MEYER, Wellston, Mo., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 2, 1919. Serial No. 308,211. 2 Claims. (Cl. 240—99.)



1. In a lamp, a chimney having an outwardly extending bead at its lower edge, a burner having a horizontal chimney-seat provided at its outer margin with a series of upwardly extending fingers one of which is in the form of a hook turned inwardly at its upper end to overlie said bead, said seat being open between two of said fingers to receive the chimney and to permit horizontal movement of the chimney on said horizontal seat, an arm projecting from said chimney seat at a point between said two fingers, an approximately horizontal clip pivoted to said arm and extending over said bead at a point opposite said hook to prevent horizontal movement of said chimney, the clip pivot being approximately in the horizonal plane of said horizontal seat and a spring whereby one end of said clip is yieldingly forced onto said bead, said end of the approximately horizontal clip being movable upwardly from said bead in an arc of a circle so as to permit horizontal displacement of the chimney.

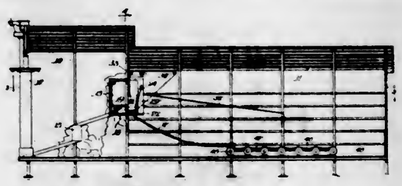
1,380,729. PAPER-ROLL-DISPENSING MACHINE. BARNET MILLER, Rockville, Conn. Filed Nov. 27, 1920. Serial No. 426,777. 3 Claims. (Cl. 211—32.)

1. An attachment for a paper roll-dispensing machine involving a cutting member, comprising a clip-like body to detachably fit said cutting member, the forward cheek of the clip-like body having a downwardly-extending



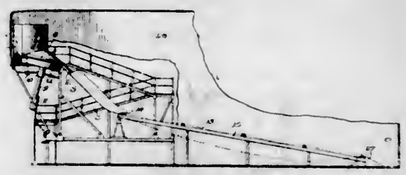
flange along the upper portion thereof and which is at an angle thereto and the free portion of which constitutes a cutting edge.

1,380,730. AMUSEMENT STRUCTURE. JOHN A. MILLER, Homewood, Ill. Filed Jan. 10, 1920. Serial No. 350,540. 6 Claims. (Cl. 46—71.)



2. In an amusement structure, the combination of an elevated chamber comprising a stationary part and a movable part, a chute leading from said chamber, a tiltable seat in the stationary part of said chamber and in front of the chute end, said movable chamber part having a floor section normally held to form a foot rest for occupants of said seat, and means for moving said movable chamber part to carry said floor section away from under the feet of the occupants and away from said chute, and means for tilting said seat to deposit the occupants directly on to said chute independently of said floor section.

1,380,731. AMUSEMENT STRUCTURE. JOHN A. MILLER, Homewood, Ill. Filed Mar. 6, 1920. Serial No. 363,685. 12 Claims. (Cl. 46—71.)

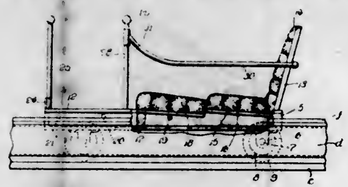


2. In an amusement structure of the class described, the combination of an elevated chamber, a chute, and a receiving and discharging structure between said chamber and chute, said structure being rotatable on an inclined axis and presenting a seating surface to the chamber and a discharge surface to the chute.

1,380,732. PLEASURE-RAILWAY STRUCTURE. JOHN A. MILLER, Homewood, Ill. Filed Nov. 6, 1920. Serial No. 422,116. 4 Claims. (Cl. 105—344.)

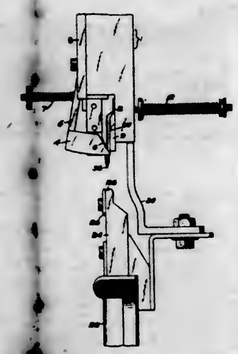
1. In a vehicle for pleasure railways of the class described, the combination of the vehicle body, vehicle

wheels, seat sections placed one directly in front of the other between the sides of the vehicle body, there being space at the sides of said seat sections whereby per-



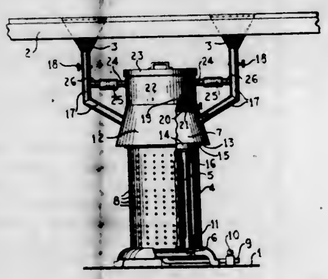
sons may sit straddle the respective seat sections with their bodies close together and with their legs alongside of said seat sections.

1,380,733. WIRE-STITCHING MACHINE. ALFRED M. MOORE, Malden, Mass., assignor to Alfred M. Moore and Chester M. Moore, Copartners, doing business under the name and style of Moore & Company, Everett, Mass. Filed May 21, 1919. Serial No. 298,699. 13 Claims. (Cl. 1—2.)



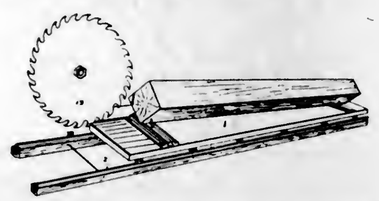
3. In a wire stitching machine, staple forming means, staple setting means, guides for the staple legs, and work positioning and staple guiding points carried by said guides adapted to enter apertures in the work and to be retracted within the guides.

1,380,734. HOT-AIR FURNACE. MAXIMILIAN J. OTTO, New York, N. Y. Filed Oct. 1, 1919. Serial No. 327,712. 2 Claims. (Cl. 126—113.)



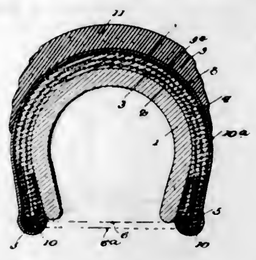
1. A hot air furnace comprising a cylindrical heating member having mounted thereon a hot air drum; means for generating heat at or near the bottom of the said member; means for conveying the heat to the hot air drum; a steam drum mounted on the hot air drum; a damper interposed between the steam drum and the hot air drum; conduits extending from the hot air drum; conduits extending from the steam drum; and means for coupling the two conduits, whereby the hot air from the air drum and the steam from the steam drum may be commingled and distributed.

1,380,735. MAST-TRIMMING MECHANISM. WILLIAM HENRY PALMER and GEORGE EDWARD DAVIES, Montreal, Quebec, Canada. Filed Feb. 26, 1920. Serial No. 361,557. 4 Claims. (Cl. 143—125.)



1. In timber trimming mechanism, a transverse slide mounted on the carriage of a log cutter, the slide having spiked projections set apart for the log or timber to settle on and be held as on the prongs of a fork during sawing operations.

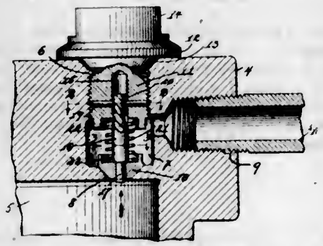
1,380,736. METHOD OF MAKING AUTOMOBILE-TIRES. JOHN H. PATTEN, Kent, Wash., assignor to W. T. Behne, King county, Wash. Filed Mar. 5, 1920. Serial No. 363,424. 1 Claim. (Cl. 154—14.)



A method of making a cord tire consisting in coating a form with a layer of resilient material winding a layer of cord biasly over the resilient material, applying a coat of cushion gum over the cord layer, applying beads, severing the cord layer on the inner periphery between the beads, bending the ends outwardly around the beads and against the side walls of the tire, winding a second layer of cord around the periphery of the construction thus made, applying layer of cushion gum over the said periphery wrapping, applying another wrapping of cord biasly around the tire, severing the ends and bending the ends inwardly around the beads and against the inner portions of the side walls, applying chafing strips around the bead portions coating the tire with a layer of cushion gum over the last cord layer, coating the tire with a layer of resilient material, over the last mentioned cushion gum layer and the chafing strips, and applying a layer of resilient material over the last mentioned layer to form the tread.

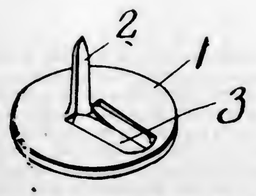
1,380,737. VALVE. HENRY E. PELLETIER, Newark, N. J., assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 1, 1920. Serial No. 362,464. 4 Claims. (Cl. 251—43.)

4. The combination of a container adapted for holding fluid under pressure, a valve chamber provided in the container wall and having a tapering seat forming an inlet from the container into the chamber, a plug threaded into the container wall in line with the tapering seat and having an opening therein, a valve proper fitting the seat and provided with a stem having moving fit in said



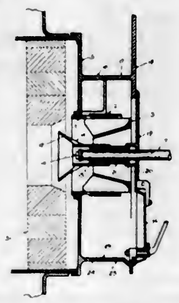
plug opening and spirally grooved in two directions, pins arranged to engage said grooves to give the valve quick rotative movement when moved to and from its seat, and a spring confined between the plug and valve proper for normally holding the valve against its seat.

1,380,738. THUMB-TACK AND METHOD OF PRODUCING THE SAME. WILLIAM RAEBURN, Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Jan. 12, 1920. Serial No. 351,031. 2 Claims. (Cl. 85—16.)



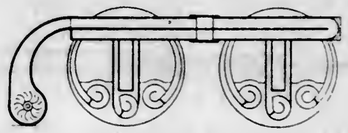
1. In a sheet metal tack, the combination of a head, a centrally located prong integral therewith and projecting therefrom, said head having a radial division extending to the base of said prong and of lesser width than the width of said prong, the portions of said head adjacent to said division being thinner than the larger portion of said head.

1,380,739. FURNACE-FRONT. JOHN REID, New York, N. Y. Filed Nov. 20, 1919. Serial No. 339,388. 15 Claims. (Cl. 158—1.5.)



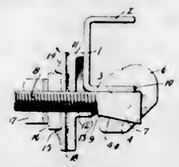
1. In a furnace front, a main frame, having front and back plates spaced by intermediate walls and openings through said plates to the firebox, and an air register having a deflector formed of guide plates mounted on a tubular center piece and supported in a cylinder encircled by an adjustable sleeve.

1,380,740. OIL-BURNING-FURNACE FRONT. JOHN REID, New York, N. Y. Filed Mar. 8, 1920. Serial No. 364,343. 4 Claims. (Cl. 158—1.5.)



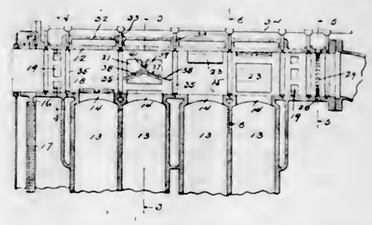
1. In an oil burning furnace front of the forced draft system of furnaces and having front and back plates forming an air pocket therebetween, an air passage from a suitable air supply, one wall of said passage being an intermediate wall distancing said front and back plates and inclosing said air pocket, and a deflecting wall within said pocket associated with said outer wall in distributing the air throughout said pocket before reaching the flame.

1,380,741. CLAMP FOR ATTACHING AUTOMOBILE-BUFFERS. JOHN R. REYBURN, Fairfield, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Jan. 29, 1921. Serial No. 440,867. 25 Claims. (Cl. 293—55.)



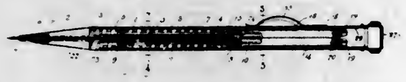
13. In an attaching clamp for automobiles, a coupling member including a pair of hooks provided with straight bights adapted to engage the inner side of a flange of a channel bar and a wedging surface supported by and between said hooks, said wedging surface and the plane of said bights being converging, a buffer arm support consisting of a wedge-shaped portion provided with a shank, said wedge-shaped portion being adapted to wedgingly fit between said wedging surface and said flange when the parts are adjusted to a channel bar, and a nut on said shank for drawing the wedge-shaped portion into wedging engagement with said wedging surface and said flange.

1,380,742. INTERNAL-COMBUSTION ENGINE. HARVEY J. SALLEE, Whitehouse, Calif. Filed Aug. 6, 1917. Serial No. 184,647. 12 Claims. (Cl. 123—177.)



10. In an internal combustion engine, a rotary distributer valve having a port opening on the face thereof, a series of circumferential oil grooves in said valve spaced longitudinally thereof, oil grooves in said valve disposed longitudinally thereof and connecting said circumferential grooves, means for introducing oil into said circumferential grooves and a groove connecting each longitudinal groove with said port.

1,380,743. PROPEL-PENCIL. WILLIAM M. SAUNDERS, Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y., a Corporation of New York. Filed July 21, 1920. Serial No. 397,944. 12 Claims. (Cl. 120—18.)



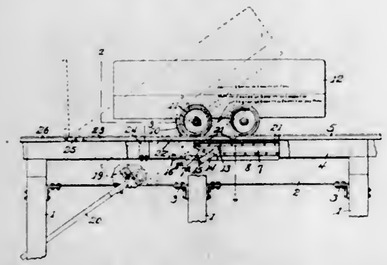
5. In a propel pencil, the combination of a casing having an internal screw-thread, a lead carrying tube, an externally screw-threaded plug engaging said internal screw-threads, a follower secured to said plug and having a portion normally in line with the bore thereof, a magazine having an opening in line with the axis of said plug, said follower being in the form of a hairpin and having its legs secured to said plug on opposite sides of its axis, a core within said magazine having an elongated opening adapted to receive said hairpin follower and whose axis is in line with the axis of said lead carrying tube, the rear end of said core having a cam engaged by the rear end of said hairpin follower when fully retracted so as to be deflected by said rear end out of alinement with said opening.

1,380,744. TOOL- HOLDER. CHARLES A. SIMMONS, Albany, N. Y. Filed Sept. 24, 1920. Serial No. 412,463. 9 Claims. (Cl. 29—96.)



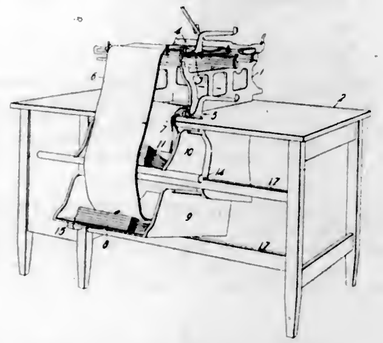
1. A tool holder for holding tools of varying sizes, of round, square or other shape in cross section and with plain or tapered shanks, comprising a body portion provided with an angled tool holding recess, a clamping plate to force the tool into the angle of the tool holding recess, fulcrumed on the body portion so as to permit of a small transverse movement, the plate being provided with a spherical seat and with an enlarged hole to allow for the play of a clamping bolt, and a clamping bolt with a spherical bearing passing through the hole and engageable in the seat.

1,380,745. CAR-DUMPING PLATFORM. CLEMENT C. SMITH, Wheeling, W. Va. Filed Aug. 26, 1919. Serial No. 319,945. 14 Claims. (Cl. 214—47.)



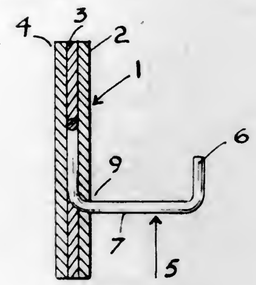
1. The combination with a tipple structure having track rails leading thereto, of a dumping platform comprising a pair of opposite longitudinally disposed rockers having approximately sled-runner form, unyielding supports for said rockers, rail sections superimposed on and wholly supported by said rockers with their rear ends in register with said track rails, wheel chocks carried adjacent to the front ends of said rail sections, and means for preventing longitudinal movement of said rockers on said supports.

1,380,746. TYPEWRITING-MACHINE AND SUPPORTS THEREFOR. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed June 21, 1917, Serial No. 175,996. Divided and this application filed May 17, 1920. Serial No. 382,166. 6 Claims. (Cl. 197—126.)



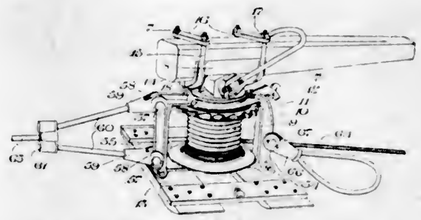
1. The combination with a machine having a plurality of interchangeable sheet-frames for carrying carbon sheets interleaved with a manifold web, of a plurality of receptacles arranged in tier with said machine, each receptacle adapted to hold a pack of the manifold-form-web while being written on in the machine and attached to one of said frames individually, said frames and webs being interchangeable to working positions on said machine without separating the carbon sheets and web while the latter is held in the receptacle whereby a rapid change may be made between different types of work by merely interchanging said frames.

1,380,747. HOOK-RACK. MAURICE L. STANFORD, San Francisco, and MALCOLM MACAULAY, Sausalito, Calif. Filed Nov. 22, 1920. Serial No. 425,674. 5 Claims. (Cl. 211—14.)



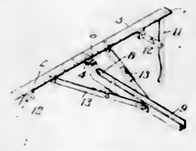
5. A rack embodying in its construction a base made up of a plurality of relatively thin sheets of material secured one upon the other and a plurality of article supporting hooks each of which extends through one of the outermost sheets and has an angularly disposed anchoring portion lying between the outermost sheets and permanently anchored in the intermediate sheet.

1,380,748. STUMP-PULLER. WALTER W. STOPPLE, Escanaba, Mich., assignor to A. J. Kirstin Company, Escanaba, Mich., a Corporation of Michigan. Filed Apr. 12, 1920. Serial No. 373,357. 8 Claims. (Cl. 254—182.)



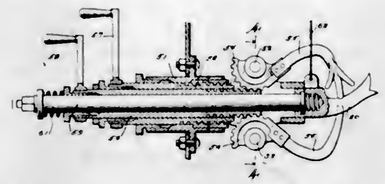
1. In a stump puller, the combination, with a frame having spaced frame members provided with coaxial openings, of bearing bushings mounted in said openings and extending inwardly beyond the frame members, a drum mounted in the frame and journaled on the extended ends of said bushings, and a sweep trough having a hub portion journaled in one of the bushings and a spindle portion journaled in the other bushing.

1,380,749. FOLDING BED. VINCENT TERRANOVA, San Francisco, Calif. Filed June 24, 1920. Serial No. 391,412. 5 Claims. (Cl. 5—5.)



1. A folding bed comprising a pair of end rails, each end rail formed of two parts pivotally connected by a knuckle joint, and a reach rod formed of a plurality of parts pivotally connected by a knuckle joint connecting said end rails and pivoted in said end rail knuckle joints.

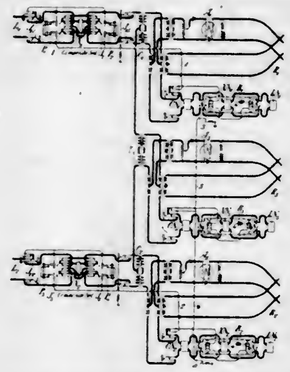
1,380,750. DIVING-CHAMBER FOR SUBMARINE OPERATIONS. ALEXANDER O. TESCH, Chicago, Ill. Filed June 15, 1920. Serial No. 389,255. 2 Claims. (Cl. 61—69.)



1. In an apparatus of the character described, a grapple including relatively movable gripping jaws, a rotary sleeve for operating said jaws, a rod yieldably held within said sleeve and adapted to receive on one end a tool, said tool to operate in conjunction with said gripping jaws.

1,380,751. REPEATER-NETWORK-SELECTING APPARATUS. JOHN F. TOOMEY, New York, and CHARLES S. DEMAREST, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed July 9, 1919. Serial No. 309,595. 6 Claims. (Cl. 179—170.)

6. A balancing arrangement comprising an artificial line for simulating a transmission line, an auxiliary balancing set for simulating the auxiliary apparatus associated with a transmission line, switching means controllable at will, adapted to disconnect said artificial line



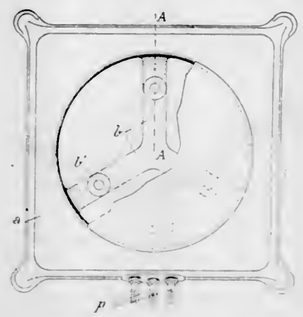
from the balancing arrangement, and means to prevent the said disconnection whenever said auxiliary apparatus is replaced by similar apparatus.

1,380,752. ELECTRICAL RELAY. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 9, 1919. Serial No. 309,673. 3 Claims. (Cl. 200—87.)



3. An electromagnet, a receptacle associated with the pole thereof, contact points and metallic filings included in said receptacle, a circuit completed over said contact points, and means controlled by the repellent action on said metallic filings produced by an alternating electromagnetic force in said magnet for controlling said circuit.

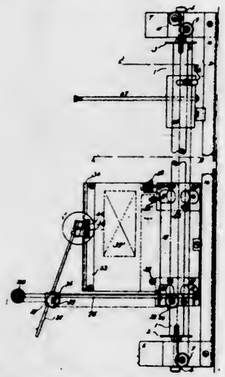
1,380,753. ELECTRIC STOVE. LEO TROUILHET and GASTON DUVEAU, Lyon, France. Filed Nov. 19, 1919. Serial No. 339,022. 3 Claims. (Cl. 219—35.)



3. In an electric stove the combination of a pedestal having an aperture in its upper part and arms bent downward from the rim of said aperture and extending across the same, said arms having bolt holes, a hot plate adapted to enter said aperture above said arms and having down-

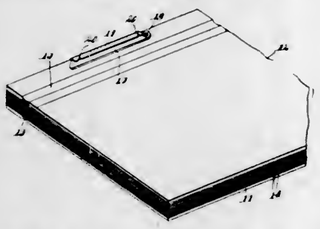
wardly directed bosses, an insulating plate under said hot plate having holes for said bosses, an electric resistance embedded in said insulating plate and having terminal studs protruding from the under surface of said plate, a plate under said insulating plate, having holes for said bosses and holes located below said studs, insulated contact devices in the last mentioned holes, and bolts passing through the bolt holes in said arms and screwed into said bosses.

1,380,754. INTEGRAPH AND DIFFERENTIATOR. JOHN PHILIP VAN BOGAERT, Brussels, Belgium. Filed Mar. 25, 1919. Serial No. 285,083. 4 Claims. (Cl. 33—27.)



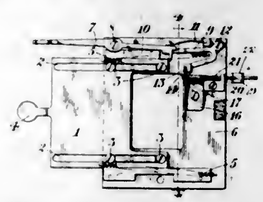
1. In an integraph, the combination with a pointer which is moved over the original curve, a slide on which the said pointer is mounted rigidly, a tracing wheel which traces the integral curve on the same ordinate, a truck on which the said tracing wheel is pivotally carried, and a shaft on which the said slide and truck are slidable independently parallel to the ordinate and movable in unison at right angles to the said ordinate, of a slide carried by the truck, means for moving the said slide relatively to the truck at right angles to the ordinate to an extent proportionate to the extent of the movement of the pointer parallel to the ordinate, and means actuated by the said slide for controlling the direction of the tracing wheel.

1,380,755. LOOSE-LEAF BINDER. CHESTER G. VAN BUREN, Chicago, Ill. Filed June 26, 1918. Serial No. 241,912. 4 Claims. (Cl. 129—7.)



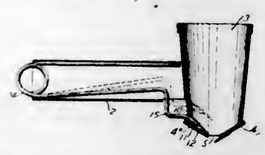
1. A binder or file for sheets of paper or the like, comprising a pair of covers; spaced flexible fastening means arising from one of said covers adjacent the inner edge thereof, and adapted to pass through openings provided in the other cover and be clenched over the latter; a flat blade on said last mentioned cover, pivotally connected therewith, adapted to be adjusted to engage over the clenched ends of said fastening means to hold the same in clenched condition; and a flange on said last mentioned cover under which said blade is adapted to engage when in operative relation with said fastening means, said flange extending parallel with said blade when the latter is in engagement therewith and engaging with said blade throughout substantially its entire length, substantially as described.

1,380,756. CINEMATOGRAPH AND SAFETY DEVICE THEREFOR. WILLIAM VAN DEN BROECK, London, England. Filed Mar. 17, 1920. Serial No. 366,636. 12 Claims. (Cl. 88—17.)



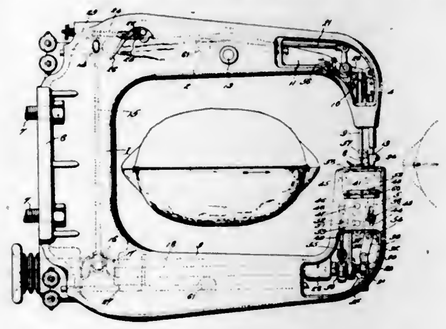
1. In a safety device for a cinematograph having a light source, the combination of a gate frame, a film therein, a sliding door in the said frame between the light source and the film, self acting means within said frame for closing the door when free, means within said frame in contact with and operated by said film when intact to hold the door open, and means within said frame for releasing the door when said film breaks.

1,380,757. ICE-SCRAPER. WILLIAM S. VAN SANT, Oakland, Calif., assignor of one-third to Everett N. McCutcheon and one-third to Elijah M. Hiatt, Oakland, Calif. Filed June 2, 1920. Serial No. 386,121. 4 Claims. (Cl. 83—62.)



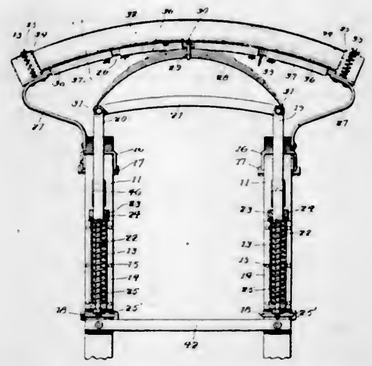
1. A combination mold and scraper, comprising a cone shaped mold, a handle therefor, a bottom section in the mold having a transverse slot, a scraper adjacent said slot, an ejector plate adjacent the bottom section of the mold, and means by which said plate may be lifted to eject the contents of the mold.

1,380,758. BAG-SEWING MACHINE. IRVING F. WEBB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Apr. 29, 1919. Serial No. 293,537. 5 Claims. (Cl. 112—11.)



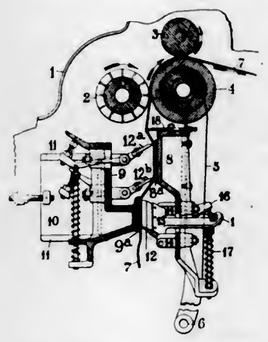
2. A sewing machine having stitch-forming mechanism including a horizontally reciprocating needle and work-advancing mechanism including a feed-dog, said feed-dog having four motions in a plane substantially parallel to the needle-bar, a frame operatively supporting said stitch-forming and work-advancing mechanisms including horizontally spaced arms extending in the general direction of the plane of feed-dog movement and a support for said arms to one side of the path in which the bag mouth is advanced by the feed-dog, said arms and support defining a bag passage open upwardly whereby mouths of bags dropped through the space between the arms and support may be stitched and removed from the machine by movement thereof in the direction of feed without hindrance.

1,380,759. PNEUMATIC BUMPER. JAMES KNOX WHITAKER, Jr., St. Louis, Mo. Filed Sept. 2, 1920. Serial No. 407,790. 9 Claims. (Cl. 293—55.)



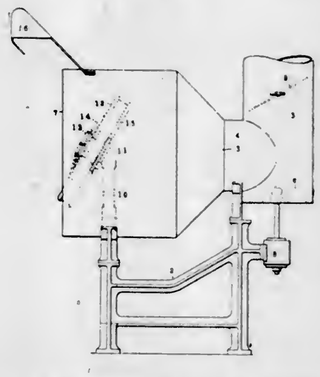
5. A bumper for motor vehicles comprising a bumper frame including spaced arms and a connection portion at their forward ends, the frame being adapted for connection with a chassis, a bumper head, a leaf spring connected between its ends with the bumper head and having terminal shackle connections with the bumper frame at the forward ends of its arms whereby the head may have lateral movement with respect to the frame and a goose necked spring connected between each end portion of the bumper head and the forward end portion of a frame arm, the bumper head including a pneumatic element disposed forwardly in position to receive direct contact in use.

1,380,760. LEATHER-WORKING MACHINE. ROBERT F. WHITNEY, Winchester, Mass. Filed Aug. 11, 1919. Serial No. 316,583. 4 Claims. (Cl. 149—20.)



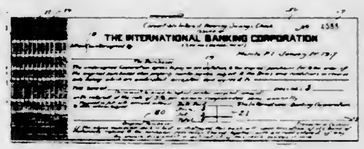
1. In a leather working machine of the character described, a pair of co-acting, horizontally disposed, stretching and squeezing members, between which the leather is drawn; one member being furnished with a vertically disposed bed plate; and the other member being furnished with a series of angularly disposed blades axially journaled thereon and furnished, each, with an arm adjustably disposed between and in engagement with a stop and a spring mounted on said last mentioned member; whereby the axial movement of the blades is cushioned and their movement toward the oppositely disposed bed plate limited.

1,380,761. PAINT-BELL. CHARLES S. ASH, Buffalo, N. Y., assignor, by mesne assignments, to Wire Wheel Corporation of America. Filed July 14, 1916. Serial No. 109,279. 2 Claims. (Cl. 91—60.)



1. In apparatus for painting wheels, the combination of a housing, means for insuring a draft of air therethrough, and an upwardly inclined support within the housing on which the wheel to be painted rests by gravity and about which it is freely rotatable, said inclined support being turnable about a vertical axis, substantially as described.

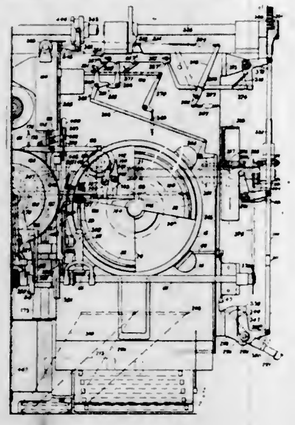
1,380,762. CONVERTIBLE INTEREST-BEARING SAVINGS-CHECK. GEORGE H. BANKS, Memphis, Tenn. Filed June 17, 1918. Serial No. 240,461. 1 Claim. (Cl. 283—59.)



A convertible interest bearing savings check comprising a single sheet divided transversely on one side by separately designated severance indication lines into a stub portion and a body portion, said stub portion having a binding part segregated by a line of perforations whereby the stub may be removed from a binder subsequent to the closing of the account, said stub portion having on one face a plurality of blocks defined by marginal lines for the reception of various data relative to check and interest handling, said body portion being divided on its face by lines into a block for the serial number of the check, a second block designated for the signature of the purchaser at the time of purchase from the bank, another block in which is adapted to be written the amount for which the check may be subsequently issued by the purchaser, and another block for the second signature of the purchaser for comparison with the signature in said second block, said body portion also being divided by lines

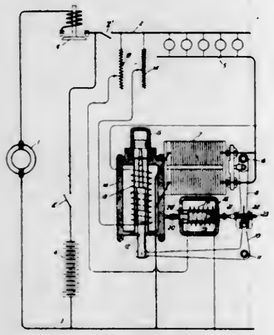
on its face into a space for the date of payment of the sum named on the face of the check, another space for the amount of interest paid, a further space for the sum total of the transaction, and constructed with a still further space for the signature of an officer of the bank issuing the check, and means on the reverse side of said body portion for governing entries therein to control the withdrawals from the savings account.

1,380,763. MECHANISM FOR COMPOSING AND CASTING TYPOGRAPHICAL MATTER. MARK BARR, Chelsea, and THOMAS FREDERICK MAW, Cricklewood, England, assignors to Mergenthaler Linotype Company, a Corporation of New York. Filed May 12, 1917. Serial No. 168,083. 91 Claims. (Cl. 199—71.)



4. In a machine for casting justified lines of separate and individual type from matrices presented successively and individually in casting position, the combination with a bi-partite mold liner according to claim 3, of abutments on the matrices determining the casting position of one part of the liner.

1,380,764. SYSTEM OF ELECTRICAL REGULATION. ERNST BAUER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Jan. 25, 1918. Serial No. 213,620. 9 Claims. (Cl. 171—229.)

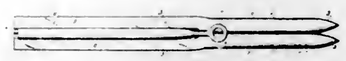


1. In combination, a compressible rheostat, electro-magnetic means for controlling the compression of said rheostat, resilient means for tightly compressing said rheostat, and electro-magnetic means for overcoming said resilient means whereby said first mentioned electro-magnetic means may control said rheostat.

1,380,765. ART OF COMPOUNDING RUBBER. CLAYTON W. BEDFORD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 12, 1919. Serial No. 310,463. 11 Claims. (Cl. 18—53.)

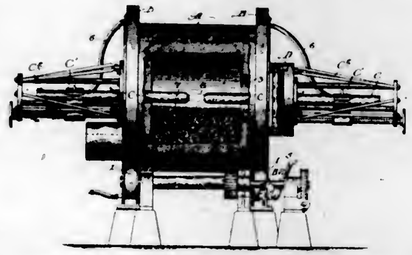
1. The method of producing vulcanized rubber, which consists in dissolving an accelerator, mixing the solution with a compounding ingredient, incorporating the mixture with rubber, and vulcanizing the rubber compound.

1,380,766. METHOD OF MAKING GRAPNELS. SEELEY P. BIRDSEY, Middletown, Conn., assignor to Wilcox, Crittenden and Company, Inc., Middletown, Conn., a Corporation of Connecticut. Filed June 17, 1919. Serial No. 304,800. 6 Claims. (Cl. 29—148.)



1. The herein described method of making grapnels, which consists in forming a series of bars each with a shank substantially trapezoidal in cross-section having opposite curved faces, then in arranging the bars with one end about a central shank having a substantially cylindrical cross-section with the inner curved faces of the bar shanks in contact therewith and with the opposite ends of the bars free and extending beyond the central shank, then in welding all of the parts together to form the shank of the finished grapnel and finally in bending said free ends of the bars to form prongs for the grapnel.

1,380,767. PROCESS FOR MELTING METAL TURNINGS, BORINGS, &c. WILLIAM K. BOOTH, Chicago, Ill., assignor to The Booth Electric Furnace Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1919. Serial No. 342,132. 5 Claims. (Cl. 204—64.)



1. The method of treating metallic turnings, etc., which comprises subjecting a charge of such materials to a disintegrating tumbling action while simultaneously applying a high degree of heat.

1,380,768. COURSE-INDICATOR OR THE LIKE. GERARD FORT BUCKLE, St. Leonards-on-Sea, and FRANK PARFETT, London, England; said Parfett assignor to said Buckle. Filed Feb. 12, 1920. Serial No. 358,226. 23 Claims. (Cl. 40—42.)



1. In a course indicator or the like the combination of two driven members, means for moving them rectilinearly in parallel planes but in directions at right angles to each other to indicate a course or the like by the resultant of their movements and means for adjusting

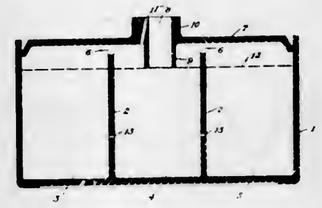
the speeds of the two driven members comprising a setting member, means for rotating said setting member into a position to correspond to the said course, a disk one for each of the two driven members, gearing between said disks and the setting member whereby they may be rotated therefrom, a pin eccentricallly situated in each disk, said disks being so situated relatively to each other that the pin in one is displaced through an angle of 90° relatively to the corresponding position of the pin in the other, two slotted adjusting members one connected to the speed-varying gear for each of the said driven members and guideways for the adjusting members, said adjusting members sliding along the guideways to adjust the speed-varying gear and each receiving in its slot one of the said pins whereby rotation of the disks is translated into longitudinal movement of the adjusting members.

1,380,769. SPRINKLER. JOHN CARLSON, Chicago, Ill. Filed Sept. 16, 1920. Serial No. 410,578. 1 Claim. (Cl. 299—153.)



A lawn sprinkler comprising a tube having a diagonal slot formed in one side thereof, the shorter side of said slot being relieved.

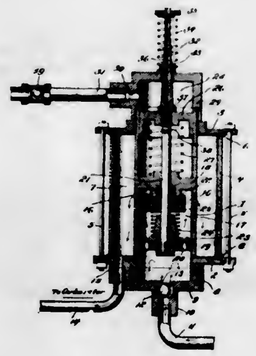
1,380,770. STORAGE-BATTERY CONSTRUCTION. CAMPBELL C. CARPENTER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Sept. 20, 1919. Serial No. 325,173. 4 Claims. (Cl. 204—29.)



1. A storage battery having a plurality of compartments, said compartments being separated by walls having apertures to permit the passage of electrolyte, said apertures being sufficiently small to provide a sufficient resistance, through the interior of said battery to prevent the voltage at the terminals of said battery from sending a substantial discharging current through the interior of said battery.

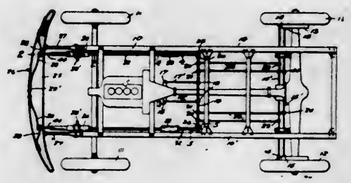
1,380,771. FUEL-FEEDING PUMP. DAVID J. CARTWRIGHT, New York, N. Y. Filed Sept. 2, 1919. Serial No. 321,239. 9 Claims. (Cl. 158—36.)

1. In an apparatus for supplying liquid fuel to an engine, the combination of a pump including a piston, said pump having an inlet port connected to a source of fuel supply and an exhaust port leading to the fuel line of the engine; a pressure cylinder; a trunk type piston mounted therein and connected to the pump piston; a spring serving to move the trunk piston in one direction; means connecting one end of the pressure cylinder to the explosion pressure space of the engine being supplied with fuel



whereby pressure will be applied to the trunk piston acting in opposition to the spring; and an automatically controlled vent in the pressure cylinder.

1,380,772. VEHICLE-BRAKE. WILLIAM R. CLARK, Seattle, Wash. Filed Oct. 8, 1919. Serial No. 329,183. 3 Claims. (Cl. 180—83.)



3. In a motor vehicle, the combination with the usual wheel brakes and operating mechanism therefor including a pedal and a controlling lever adapted to be employed selectively to appply the brakes, of a bumper comprising two transversely arranged resilient members disposed one in front of the other, brackets connecting the rearmost of said members to the vehicle frame for supporting the bumper, rods connected to said brake operating mechanism, springs connected to the respective rods and tending to render said rods operative, means for releasably securing said rods in operative positions, yieldable devices engageable with the respective means and extending through the rearmost of said bumper members, and means provided intermediate said bumper members and rendered operable by the bumper colliding with an object to cause said devices to act whereby the spring pressed rods are released by the aforesaid means to effect the applying of the brakes.

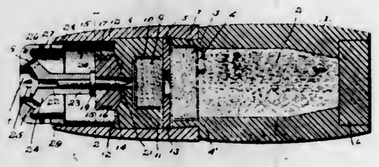
1,380,773. ARMOR-PIERCING, SPOTLIGHT, AND INCENDIARY BULLET. WALLACE L. CLAY, U. S. Army. Filed Nov. 20, 1918. Serial No. 263,382. 5 Claims. (Cl. 102—26.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A projectile of the class described, comprising a slug, a shell of a material fracturable by impact and inclosing

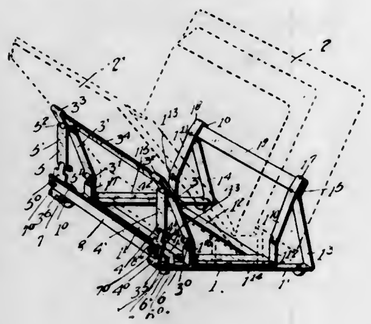
the slug, a mass of relatively soft metallic substance between the slug and shell, and a mass of a light and vapor producing substance between the slug and the soft metallic substance.

1,380,774. FUSE. WALLACE L. CLAY, Bridesburg, and JOHN W. TAYLOR, Frankford, Pa. Filed June 30, 1919. Serial No. 307,796. 5 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a fuse for projectiles, the combination with the primer, of a firing-pin, safety means for normally maintaining the firing-pin in unarmed position, a firing-pin holder having a tubular stem within which said firing-pin projects, a head at one end of said stem provided with air inlet apertures, and a tubular flange extending circumferentially of said head for guiding the holder during longitudinal motion thereof.

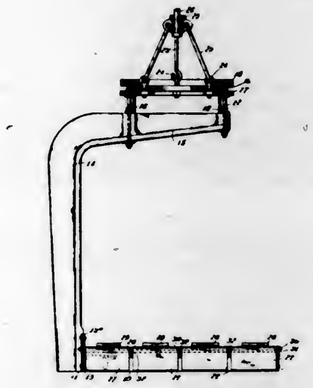
1,380,775. POSTING-LEDGER RACK. CHARLES EDWIN CLIFFORD and THOMAS JAMES MACKLE, Brampton, Ontario, Canada. Filed May 10, 1920. Serial No. 380,162. 4 Claims. (Cl. 45—57.)



1. A ledger rack comprising a base frame, a stationary support extending upwardly from one side of the base frame and against which one cover of the ledger is designed to rest, a hinged supporting arm against which the other ledger cover is adapted to rest, a divided strut having one end hingedly connected to the base frame and the opposite end to the support and having the divided portions hinged together and adapted to break joint when released, and a spring held curved arm pivotally supported in the base frame and having a toothed convex portion adapted to engage a suitable portion of the divided strut to hold it in the unbroken position.

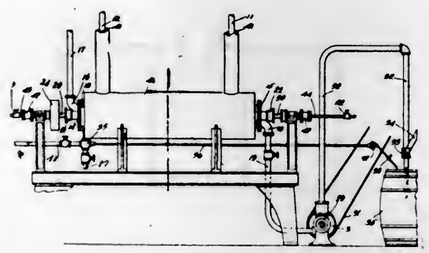
1,380,776. APPARATUS FOR HANDLING BRICK. RALPH B. COBB, River Forest, Ill. Filed June 10, 1920. Serial No. 387,863. 12 Claims. (Cl. 294—63.)

1. A brick handling apparatus comprising a frame having a plurality of parallel arms projecting therefrom and adapted to be introduced into the spaces between parallel rows of bricks, and clamping devices carried by said arms



and arranged to be directly actuated to operatively engage the bricks of such rows by the weight of bricks superimposed thereon.

1,380,777. FOOD FAT AND PROCESS OF FINISHING THE SAME. JOHN T. COX, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Nov. 26, 1919. Serial No. 340,702. 10 Claims. (Cl. 99—13.)



1. The process of treating edible fat, which consists in continuously chilling and solidifying successive portions of a body of liquid fat, and simultaneously incorporating said solidified portions in the body of the fat until the mass is converted into a semi-solid.

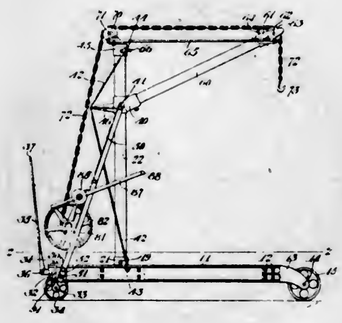
1,380,778. SAFETY ATTACHMENT FOR POCKETBOOKS. FRANK CUCINOTTA, New York, N. Y. Filed Aug. 27, 1920. Serial No. 406,396. 3 Claims. (Cl. 150—47.)

1. The combination with a pocketbook having a flap to cover its mouth and perforations in said mouth and flap to register with one another when the flap is closed, of a button having a shank to extend through said perforations in the mouth and flap, a loop on the free end of said shank of the button, a chain to be passed loosely through said loop for fastening the mouth of the pocketbook closed,



and means for fastening both ends of the chain to the clothing.

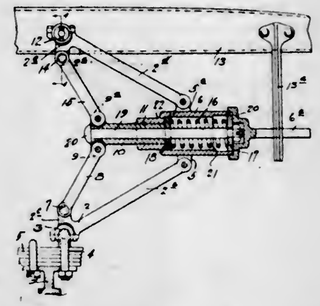
1,380,779. PORTABLE CRANE. ROBERT CRAIG, Berkeley, Calif. Filed Feb. 8, 1919. Serial No. 275,906. 4 Claims. (Cl. 189—16.)



1. In a portable crane, a base; a three wheel support therefor; a mast socketed to said base intermediate said points of support of said wheels on said base; a boom casting secured to said mast intermediate of the ends thereof; an oblique brace connecting said boom casting to the forward end of said base; a strut integral with and projecting from said boom casting in the direction of the forward end of said truck; a truss rod secured at either end to said mast and passing over the outer end of said strut; a boom having its forward end secured in said boom casting; and a tension rod secured at one end to the upper end of said mast and at the other end to the end of said boom.

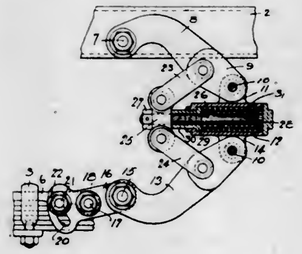
1,380,780. SHOCK-ABSORBER. JOHN DAHLSTROM, Pittsburgh, Pa. Filed July 16, 1919. Serial No. 311,122. 10 Claims. (Cl. 267—20.)

2. In a shock absorber, the combination of a longitudinally movable casing, a spring contained therein, followers in said casing between which said spring is interposed, a movable member entering said casing to move one of said followers, a rod connected to the other follower passing through said movable member, a stop on said rod to control the movement of said movable member,



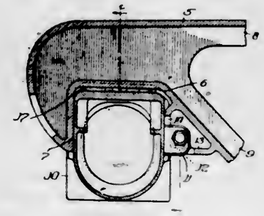
connections between said casing and the axle and vehicle frame, and means for moving said followers in said casing alternately as the vehicle frame moves up and down.

1,380,781. SHOCK-ABSORBER. JOHN DAHLSTROM, Pittsburgh, Pa. Filed Dec. 23, 1919. Serial No. 346,947. 5 Claims. (Cl. 267—20.)



2. In a shock absorber, the combination with the vehicle frame and axle of a casing, followers in said casing, a spring interposed between said followers, arms pivotally connected to opposite sides of said casing and to the frame and axle, and links connected to said arms and to one of said followers whereby on deflection and rebound of said frame said casing is moved in one direction carrying with it one of said followers and the other follower is moved simultaneously in opposite direction to compress the spring.

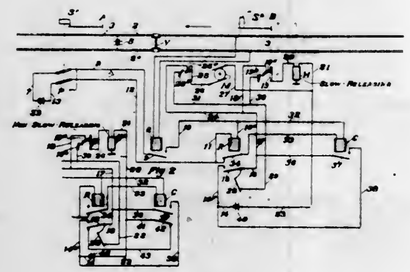
1,380,782. TRUCK SIDE FRAME. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 10, 1918. Serial No. 227,648. 2 Claims. (Cl. 105—220.)



1. In combination, a truck side frame having a pedestal jaw with apertured spaced walls, a journal box having a

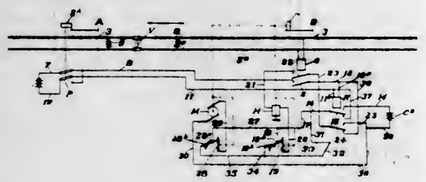
lug with a vertically elongated slot and extending between said walls, said frame and box being relatively adjustable, and a bolt connecting the walls and lugs, said connection permitting shims of varying thickness to be inserted between the journal box and truck pedestal to vary the relative position therebetween.

1,380,783. RAILWAY SIGNALING. CHARLES W. DUNHAM, Fairmont, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 323,247, filed Sept. 12, 1919. This application filed Mar. 26, 1920. Serial No. 368,873. 10 Claims. (Cl. 246—53.)



10. In combination, a polarized relay, a circuit for said relay including a source of current, means included in said circuit for reversing the polarity of the current supplied to said relay from said source, a second relay, means controlled by said polarized relay for energizing said second relay when the polarized relay is open during response of the latter relay to reversal of the polarity of the current supplied thereto, and a signal controlled by a neutral front contact of said polarized relay and a front contact of said second relay in multiple.

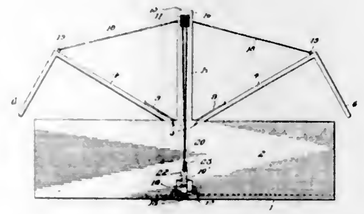
1,380,784. RAILWAY SIGNALING. CHARLES W. DUNHAM, Fairmont, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1919. Serial No. 347,748. 13 Claims. (Cl. 246—45.)



12. In combination, a relay having front and back contacts, a circuit for said relay including a source of current and a pole-changer, a magnet, a second source of current, a circuit for said magnet including said second source and the front contacts of said relay, and a second circuit for said magnet including the first source of current and the back contacts of said relay.

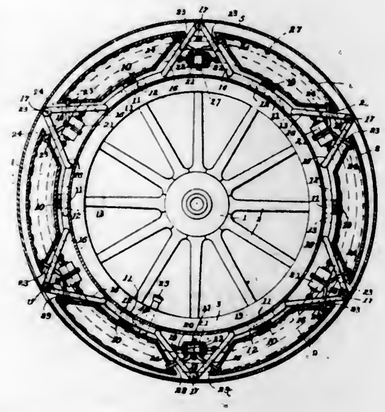
1,380,785. ANIMAL-TRAP. STANLEY DYBOWSKI, deceased, by Juzefa Nawacka, administratrix, Rockford, Ill. Filed June 11, 1920. Serial No. 388,086. 3 Claims. (Cl. 43—61.)

1. An animal trap of the character described comprising a casing, trap doors pivotally carried thereby, spring arms for maintaining the trap doors in their lowered closed positions, cords connected to said trap doors, a lever arm within said casing and projecting through one side wall thereof, a prop connection between the projecting end of said lever arm and the cords connected to said trap doors, said casing having an opening therein to facilitate the



passage of said lever arm and springs secured to the opposite sides of said lever arm and frictionally engaging the side walls of the opening to hold the lever arm elevated against its weight, and being of insufficient strength to maintain the arm elevated with an animal resting on the lever arm.

1,380,786. VEHICLE-TIRE. OTTO J. EISELE, New York, N. Y. Filed Jan. 17, 1920, Serial No. 352,060. Renewed Nov. 10, 1920. Serial No. 423,176. 14 Claims. (Cl. 152—33.)

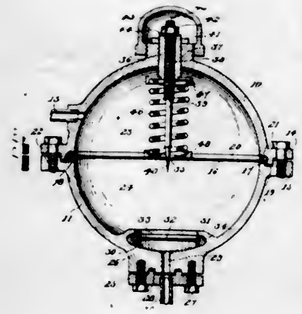


1. A vehicle tire comprising an inner and an outer rim, rigid air reservoirs arranged between said rims, out of contact with the same, means in contact with the outer rim and also arranged between the reservoirs for compressing the air in said reservoirs when the tire is under a load and connections between said compressing means arranged to slide between the inner rim and the reservoirs.

1,380,787. AUTOMATIC EXPANSION-VALVE FOR REFRIGERATING SYSTEMS. JOSEF ELLMAUER, Milwaukee, Wis., assignor to Refrigo Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 7, 1919. Serial No. 329,166. 4 Claims. (Cl. 50—14.)

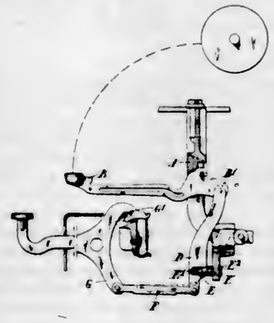
1. An automatic expansion valve adapted for employment in the circulating system of a refrigeration plant comprising means through which the refrigerant is conducted, retarding means therein having a constantly open passage and means of less cross sectional area than said

passage axially projecting therethrough and adapted to automatically vary the diameter of said passage operable



upon a change of pressure of the refrigerant at the inlet side of the retarding means.

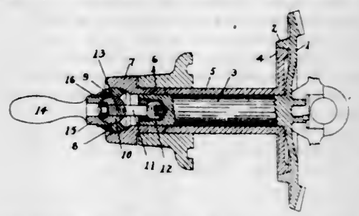
1,380,788. TYPE-BAR MECHANISM. HERBERT ETHERIDGE, Ealing, England, assignor to The Bar-Lock Typewriter Company, Limited, London, England. Filed Mar. 17, 1920. Serial No. 366,648. 2 Claims. (Cl. 197—27.)



1. In a front strike typewriting machine, the combination of a shift frame comprising a segment, and a plurality of independently detachable type actions mounted thereon, each of said type actions comprising a vertical sub-lever pivotally mounted on said segment and detachable therefrom independently of the other sub-levers, a normally horizontal type-bar hung on said segment so as to be readily detachable therefrom and pivotally connected to the upper end of the sub-lever, a key lever hung by a hook on the frame of the machine so as to be readily detachably fulcrumed thereon, and a horizontal link pivotally connected to the front end of the key lever and at the rear end to the sub-lever, whereby each type action can be assembled and adjusted in a machine and removed therefrom independently of the other.

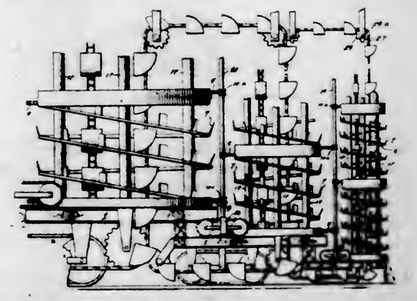
1,380,789. CLUTCH. FREDERICK S. FLOETER, Saginaw, Mich. Filed Aug. 2, 1920. Serial No. 400,717. 3 Claims. (Cl. 192—93.)

1. In combination, a clutch-member having an integral stem, a link having one end swiveled to said stem, a ball fixed to the other end of said link, a hollow ball inclosing said first-mentioned ball and eccentric thereto, an operating handle secured to said hollow ball, a cup formed wth a seat to receive said hollow ball, a second clutch-



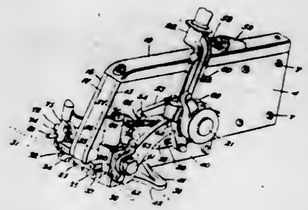
member, a hollow cylindrical stem connecting said cup and said second clutch member, for the purposes set forth.

1,380,790. EXCAVATOR. THEOPHIL J. FREDA, Detroit, Mich. Filed May 1, 1920. Serial No. 378,057. 19 Claims. (Cl. 37—27.)



1. In a ditch digging machine, a series of vertical, cylindrical, rotary excavators positioned one in the rear of the other to form a train, separate successive excavators being of increasing diameter from front to rear of said train, means connecting the same together so they will move forward as one unit, means for propelling the same forward, means for rotating said excavators.

1,380,791. BUNDLING-MACHINE. ALEC J. GERRARD, Chicago, Ill. Continuation of application Serial No. 287,487, filed Apr. 4, 1919. This application filed Nov. 26, 1920. Serial No. 426,500. 14 Claims. (Cl. 140—93.)



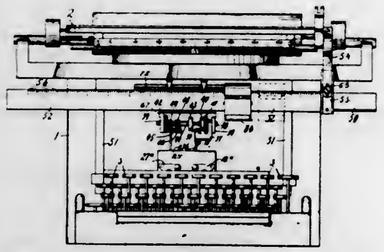
2. In a wire tying machine the combination of a wire twisting mechanism comprising a slidable wire holding member; and means to so move said member at the end of the twisting operation as to forcibly eject the twisted wire therefrom, substantially as described.

1,380,792. CALCULATING-MACHINE. HYMAN ELI GOLDBERG, (now by judicial change of name Hyman Golber,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed May 28, 1904. Serial No. 210,158. 265 Claims. (Cl. 235—59.)

24. In a recording calculating machine, the combination of a receiving mechanism; means for operating the

same to add a number thereon and simultaneously print in a given decimal column; and other means operative upon the same receiving mechanism in the same given decimal column as before to subtract a number therefrom and simultaneously print in a different decimal column.

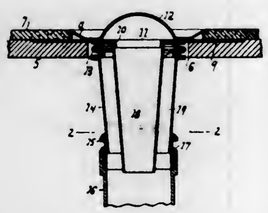
120. In a computing machine, the combination of an element to be shifted in a register actuating mechanism, of a traveling bar having offset portions arranged at predetermined positions thereon, and a power transmitting device arranged between the element to be shifted and said bar and arranged to transmit the shifting motion to the element to be shifted.



155. In a calculating machine, the combination of two reversible receiving mechanisms and two setting members, one for each receiving mechanism, said setting members being adapted to operate said receiving mechanisms simultaneously equal amounts in opposite directions, and means for simultaneously reversing the direction of rotation of said setting members.

235. In a calculating machine, the combination of indicating mechanism adapted for travel, a supporting frame for said indicating mechanism, numeral keys, driving mechanism associated with said numeral keys, the actuation of any key causing the indicating mechanism to be driven to perform calculation, means for rigidly locking the indicating mechanism against bodily movement while a key is being depressed and releasing said indicating mechanism when the key has reached the bottom of the same stroke.

1,380,793. ROOF LEADER CONNECTION. BARNEY GOLDMAN, New York, N. Y. Filed Dec. 31, 1919. Serial No. 348,645. 3 Claims. (Cl. 182—10.)



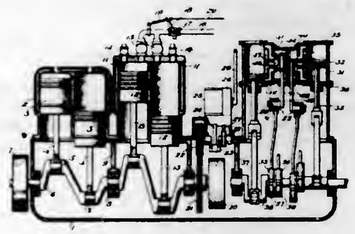
1. A leader connection comprising a roof having an opening therein, a plate with an opening arranged on the opening, a discharge conduit connected to the plate, and a duct secured to the plate spaced from the discharge conduit to form a chamber closed at the top for circulating air.

1,380,794. MONKEY-WRENCH. WILLIAM GORDON, Union, N. J. Filed Oct. 20, 1919. Serial No. 331,952. 13 Claims. (Cl. 81—139.)

1. In a monkey wrench, the combination with a fixed jaw and a movable jaw, one of which is provided with a rack having teeth extending inwardly and the other with a shank having a rack engaging member provided with a series of teeth extending outwardly and adapted to engage the said rack, said rack engaging member comprising an arm extending rearwardly and having a connection at the rear end of the shank, and means at the front of the wrench for actuating said rack-engaging member.



1,380,795. MOTOR. JOSEPH GRAZIANO, son of Rosario, and Joseph Graziano, son of Peter, Newburgh, N. Y. Filed Nov. 1, 1919. Serial No. 334,990. 1 Claim. (Cl. 60—14.)



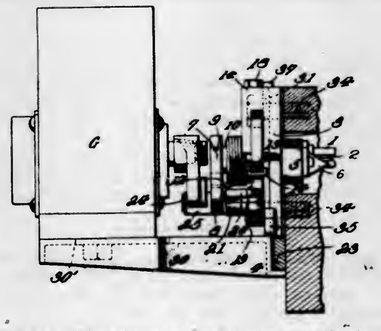
In a driving device for automobiles or the like, an internal combustion engine having reciprocatory pistons therein and a crank shaft connected to said pistons an air compressor including cylinders having reciprocatory pistons therein which are operated by the crank shaft of the internal combustion engine, valved air inlets for the cylinders, valves outlets for the cylinders, a pipe connected to said outlet valves, an air storage tank connected to said pipe, a spring influenced relief valve in the pipe, manually operated means for operating the valve to close the passage between the valve and tank and to open the passage to the atmosphere, a starter for imparting initial motion to the pistons of the engine including a reciprocatory member having means operated thereby co engaging with means on the crank shaft for turning the said crank shaft, a valve pipe connection between the starter and the storage tank, an air engine having a crank shaft independent of the first mentioned crank shaft and connected to the drive means of the automobile, said air engine including cylinders having reciprocatory pistons therein connected with the crank shaft, valve chests to the sides of the cylinders, inlet and outlet ports between the cylinders and the valve seat, reciprocatory pistons in the valve and operated in timed relation by mechanism connected with the crank shaft, manually operated means for reversing the stroke of the valves and consequently reversing the stroke of the pistons, means for feeding compressed air from the tank to the valve chests, controlling means for said feed means, and means for heating the fluid in the tank.

1,380,796. FRONT DRIVE AND STEERING WHEEL FOR AUTOMOBILES. BENJAMIN F. GREGORY and WILLIAM H. CRAUN, Kansas City, Mo. Filed Sept. 25, 1920. Serial No. 412,632. 7 Claims. (Cl. 180—47.)

1. In front wheels for motor vehicles, a steering knuckle-member comprising an annulus having a peripheral ball bearing groove, a plurality of annuli encompassing said steering knuckle-member and spaced off from each other and from said knuckle-member, an annulus arranged intermediate the aforesaid annuli and said knuckle-member and provided with a plurality of orifices, a plurality of spherical bearings positioned within said orifices, a compensating washer positioned intermediate the aforesaid annuli and spaced off edgewise from said plurality of spherical bearings, set-bolts passed through the aforesaid annuli and through said washer and adapted to space off said annuli to receive said washer therebetween, and means for rotatably mounting said annuli upon said steering knuckle-member.

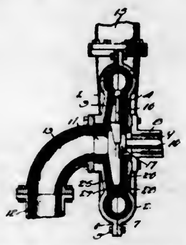


1,380,797. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM GRUNOW, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed July 21, 1919. Serial No. 312,172. 12 Claims. (Cl. 123—149.)



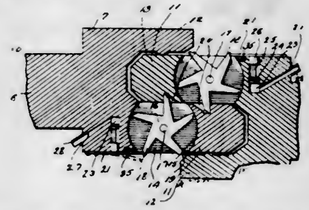
1. In an ignition device, a fixed and a movable electrode, a magneto generator having a current generating member, a shaft carrying the movable electrode a sleeve freely journaled on said shaft, a spring encircling said shaft and connected at one end to said sleeve, an arm on the end of the shaft to which the other end of said spring is connected, means whereby said sleeve may be turned and released for actuation by the spring, and means carried by the sleeve for engaging the arm on said shaft and actuating the current generating member.

1,380,798. PUMP. GEORGE T. HANSEN and CHARLES F. SHERWOOD, Salt Lake City, Utah. Filed Apr. 28, 1919. Serial No. 293,295. 6 Claims. (Cl. 103—43.)



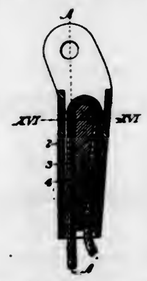
1. In a centrifugal pump for pumping a liquid containing abrasive material, a casing having an axial inlet and a peripheral outlet, said casing being divided on a plane substantially at right angles to the axis of the pump, an impeller within the casing comprising a hub, a driving shaft secured to the hub, said impeller comprising a rigid flat portion lying in a plane at substantially right angles to the axis of the shaft, and a plurality of rigid integral flanges forming vanes and extending generally radially and lying at right angles to the flat portion, said flat portion and said flanges being completely coated with rubber secured permanently to the surfaces of the same and a removable liner of rubber having a flexible sheet metal backing fitting the interior surfaces of said casing, said liner being divided on substantially the same plane as the casing, the parts of said liner being removable laterally from the interior of the casing for repair or replacement, said impeller having its rigid portion lying between the two casing sections and partly in each.

1,380,799. COUPLING. WILLIAM B. HATHAWAY, Grand Junction, Colo. Filed Apr. 5, 1919. Serial No. 287,849. 3 Claims. (Cl. 213—53.)



1. A coupling comprising a pair of heads each having a long arm and a short arm thus providing a receiving pocket therebetween for receiving the long arm, said long arm of the other head having a slot formed therethrough, a coupling wheel positioned within said slot and consisting of a body having fingers extending therefrom at a tangent, a shaft carried by the long arm and passing through said body for rotatably supporting said wheel, said long arm also having a receiving socket formed therein beyond said slot to receive a finger of the wheel of the other head, a latch carried by the head and engaging one of said fingers for releasably holding the coupling wheel against rotation in one direction, and means for moving said latch from engagement with said wheels.

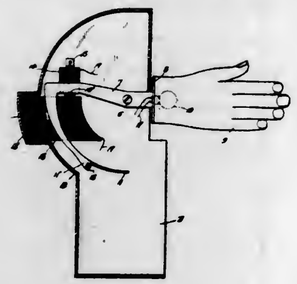
1,380,800. WIRE OR CABLE END CONNECTOR. JEHU FREDERIC HAWORTH, Edgeworth, Pa. Filed Sept. 27, 1917. Serial No. 193,504. 6 Claims. (Cl. 24—136.)



3. A connector for a cable or wire when under stress, comprising a member having a substantially tapered seat for engaging at substantially diametrically opposite sides the outer surfaces of reversely extending loop portions of a wire, and a movable wedge member coöperating therewith adapted to engage at substantially diametrically opposite portions the inner surfaces of said reversely extending loop portions of the wire, a portion of the sides of the

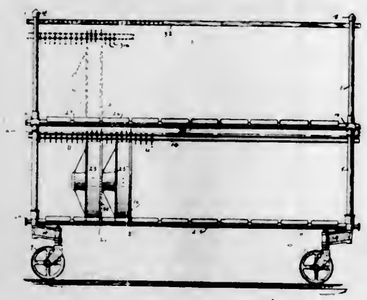
smaller end of said wedge member having a greater taper than the taper of said seat to form a gradually increasing space between the sides of said wedge member and said seat for increasing the bite on one part of the engaged portion of the cable cover the bite on another part of the engaged portion of the cable, and means for pivotally connecting said member for holding at least a part of the clamped portion of the wire within said member in the plane of the line of pull thereon, substantially as described.

1,380,801. TRAFFIC-SIGNAL. ELVIN C. HODGES, Cambridge, Mass. Filed May 9, 1919. Serial No. 295,860. 1 Claim. (Cl. 177—329.)



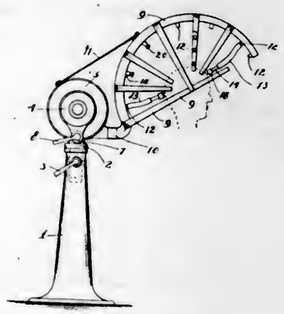
A device of the class described comprising a casing, an arm pivoted therein, a signal connected with one end of the arm, a curved extension on the other end of the arm, a solenoid in the casing to which the extension is adapted to pass, a pair of electro-magnets arranged in the casing above the solenoid, said magnets being spaced apart to receive the arm between them for holding said arm in operative position, said extension having a projection adjacent its lower end and a magnetized bar in said casing for engaging said projection and thus helping the magnets to hold the signal arm in operative position.

1,380,802. PORTABLE WHEEL-RACK. HENRY A. HOUSE, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Sept. 4, 1918. Serial No. 252,670. 5 Claims. (Cl. 280—49.)



1. In a wheel rack comprising a frame work including parallel supporting bars adapted to support a plurality of wheels thereon, a longitudinal bar in sliding engagement with said frame, a series of pins on said bar adapted for longitudinal reciprocation transverse to said bar, and adapted to hold the upper parts of said wheels in releasable engagement therewith.

1,380,803. HAIR WAVING AND DRYING APPARATUS. HARRY JACOBS and HANNAH JACOBS, New York, N. Y. Filed Dec. 26, 1919. Serial No. 347,423. 7 Claims. (Cl. 34—26.)

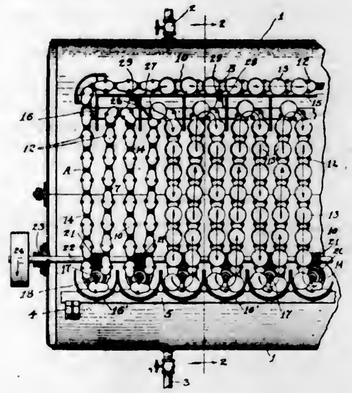


6. In a hair drying and waving apparatus, a drying chamber having inlet and outlet passages and adapted to engage a winding stem having hair wound thereon, means for forcing heated air under pressure through the said drying chamber, and pivotal connecting members upon the pedestal providing vertical and horizontal adjustment.

1,380,804. CARBONIZING-BOX, ANNEALING-POT, AND SIMILAR ARTICLE. WILLIAM E. JEANNOT, Muskegon, Mich., assignor to West Michigan Steel Foundry Co., Muskegon, Mich., a Corporation of Michigan. Filed May 15, 1920. Serial No. 381,775. 8 Claims. (Cl. 75—1.)

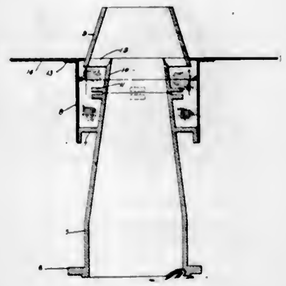
1. A carbonizing box or like container composed of ferrous alloy having as a leading ingredient silicon in proportion from 1 to 6%, together with carbon and manganese.

1,380,805. MEANS FOR CONTROLLING THE PERIOD OF COOK OF PACKAGED PRODUCTS. AXEL JOHNSON, Oakland, Calif. Filed Aug. 9, 1920. Serial No 402,196. 7 Claims. (Cl. 126—272.)



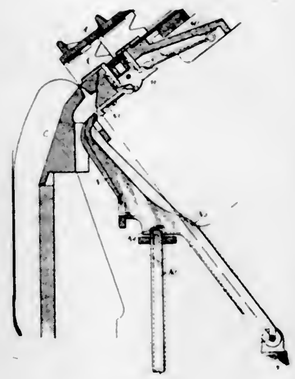
1. A continuous cooker comprising a box, means for heating the same, a can conveyer within the box disposed to form a continuous zig-zag path, with adjacent points in communicating relation, a plurality of can transfer gates disposed within the length of said conveyer for receiving and transferring cans from one flight to another, and means common to all of said gates and extending exteriorly of the box for selectively controlling the operation thereof.

1,380,806. EXHAUST-NOZZLE. GEORGE WILLIAM KELLER, Portsmouth, Ohio. Filed Sept. 3, 1920. Serial No. 407,904. 2 Claims. (Cl. 162—5.)



1. A steam nozzle including a body portion having the walls thereof tapering toward its outer end, a nozzle head positioned on one end of the body portion, arms forming a part of the nozzle head to support the head in spaced relation with the body portion to provide passageways, and a guard of wire mesh material housing the upper end of the body portion, and the lower end of the nozzle to guard said passageways.

1,380,807. TYPOGRAPHICAL COMPOSING-MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Original application filed May 22, 1916, Serial No. 99,059. Divided and this application filed Mar. 19, 1919. Serial No. 283,520½. 3 Claims. (Cl. 199—25.)



1. In a typographical composing machine, the combination of a matrix-releasing escapement, and operating means therefor, the said means including a sliding plunger connected to the escapement, and a pivoted actuating lever of relatively great length and arranged with its upper end in position to engage said plunger and having its pivotal point located in a plane extending substantially at right angles to the plunger and passing through the point of engagement of the lever with the plunger, said pivotal point being positioned a relatively remote distance from the escapement-plunger so that in the pivotal motions of the lever, its upper end will describe an arc to which the longitude of the plunger in tangent, and the circular measure of which arc will be substantially equal to the sine of the angle of rotation, whereby wear from sliding of the lever on the plunger is prevented.

1,380,808. BURGLAR-ALARM. BLASIUS A. KOVACIC, Detroit, Mich. Filed July 30, 1920. Serial No. 400,284 5 Claims. (Cl. 116—82.)



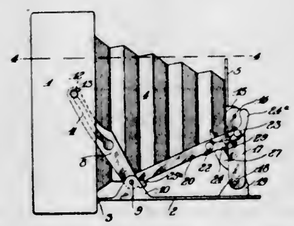
1. The combination of an alarm device having an operating push button disposed to solely support one end of said alarm device and be actuated by pressure on the device, and a retaining member under which the pusb button of said device engages to hold the device against accidental movement when pressure is brought to bear thereon.

1,380,809. ELECTRICAL BATTERY AND BULB TESTER. WILLIAM B. KOUWENHOVEN, Baltimore, Md., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed July 10, 1920 Serial No. 395,404. 3 Claims. (Cl. 175—183.)



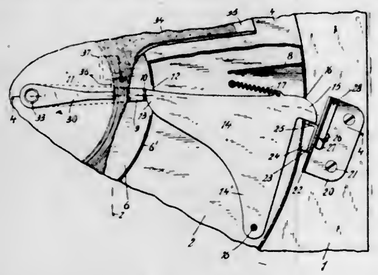
3. An electrical battery- and bulb-tester, comprising a panel and a plurality of independently organized testing units differentiated in size and each comprising two battery-contacts, a testing-lamp, and inner, outer, and intermediate bulb-contacts, all connected by wires housed within the panel, the battery connections being normally closed through the testing-lamp, and the introduction of a bulb to be tested cutting out the testing-lamp and closing the circuit through the bulb to be tested.

1,380,810. FOLDING CAMERA. ROBERT KROEDEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 13, 1919. Serial No. 344,558. 11 Claims. (Cl 95—40.)



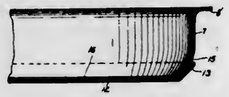
1. In a folding camera, the combination with a body, a bed hinged thereto and a lens mount pivotally supported on the bed, of a jointed brace for the lens mount pivoted to the bed and a device for breaking the joint of the brace

1,380,811. ATTACHMENT FOR TALKING-MACHINES. FERDINAND KRAUSE, New York, and JOHN ODORFER, Brooklyn, N. Y. Filed Aug. 15, 1919. Serial No. 317,640. 10 Claims. (Cl. 192—116.)



2. An attachment for talking machines comprising a disk adapted to be rotated by the talking machine mechanism and to support a record, a device carried by said record independently of the said disk and including a pair of arms extending across the record respectively above and below the latter, and a hub-like element on which said arms are fixed pivotally carried by the record centrally thereof, the upper one of said arms being adapted to be engaged and stopped by the sound reproducing device of the talking machine when it reaches the end of the record grooves, a brake, and means coöperating with the lower arm whereby continued rotation of the said disk causes the brake to be actuated.

1,380,812. CLOCK-DIAL BACK AND MAT. HAROLD L. LATHROP, Waterbury, Conn., assignor to Waterbury Clock Co., Waterbury, Conn., a Corporation. Filed Aug. 13, 1920. Serial No. 403,225. 1 Claim. (Cl. 113—116.)

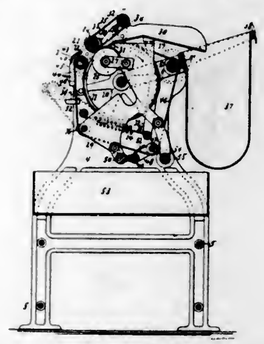


A method of making clock-dials consisting in producing a flat-bottomed, circular, cup-like blank comprising an annular mat-portion having its outer edge turned outwardly to form a rim, a flat dial-back portion, and a beveled corner portion interposed between the said mat-portion and dial-back portion; then dividing the said blank on a line substantially coincident with the line where the upper edge of the beveled corner portion of the blank merges into the lower edge of the mat-portion of the blank, whereby a dial-back having an upturned flange, and a rimmed mat-blank are produced, then turning the lower edge of such a mat-blank inward to adapt it to fit within the upturned edge of such a dial-back, then applying a dial to the inner face of the dial-back, and then setting the inwardly turned edge of the mat-blank into the dial-back over the edge of the dial, whereby the edge of the same is covered and concealed.

1,380,813. TOBACCO STRIPPING AND BOOKING MACHINE. JOHN LAURELL, Newark, N. J., assignor to I. Lewis Cigar Manufacturing Co., Newark, N. J., a Corporation of New Jersey. Filed Apr. 27, 1920. Serial No. 376,988. 7 Claims. (Cl. 131—57.)

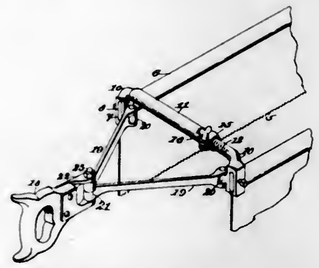
1. In a machine for stripping and booking tobacco the combination with rotary oscillating cylinders, a revolving cutter, endless belts coacting with the cylinders to feed a leaf, a chute located behind the knife to divert the stripped stem, and a belt connecting the chute with the hub of the knife.

6. In a machine for stripping and booking tobacco the combination with rotary cylinders, endless belts coacting with the cylinders to feed a leaf, a hanger to swingingly mount the cylinders, arms extending downwardly from



the hanger between its fulcrum and weight, coiled springs connected to the arms to balance the cylinders, a two armed rock lever fulcrumed below the cylinders, an idler roller carried by the lever to engage the belts, and yielding means coacting with the lever to tension the belts.

1,380,814. SAW-HOLDER. KENNETH LINDSAY, Cedar Rapids, Iowa. Filed May 10, 1920. Serial No. 380,078. 3 Claims. (Cl. 145—31.)



2. A holder for a pair of carpenters' saws, comprising a pair of arched yokes with extensible, mutually engaging shanks, and spaced fastenings, whereby the length of the shanks may be accurately adjusted, heads connecting with said shanks, and slotted to receive saw-backs and hold the saws at right angles to the shanks, and means for securing the saws therein.

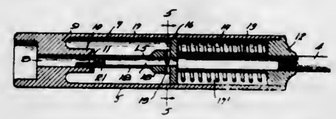
3. Combined with a holder for saws composed of a pair of extensible yokes, having heads slotted to receive the backs of saws, and hold the saws at right angles to the shanks, a pair of jointed links connecting with one of said yokes, a handle attached to the links at their connecting joint, and means for holding the handle tightly in position.

1,380,815. FOOD PRODUCT. SIGMUND LUFT, Maywood, Ill. Filed July 7, 1920. Serial No. 394,469. 5 Claims. (Cl. 99—11.)

2. A process of preparing a dry soup product which consists in roasting a starchy material, impregnating it with fat while maintaining it in a substantially dry state and subsequently adding seasoning materials in such quantity and of such water content as not to change, substantially, the percentage of water in the mass to any material extent.

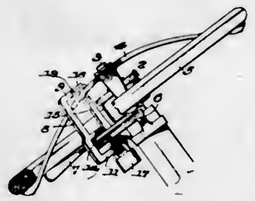
5. A substantially dry soup product which consists of a starchy material roasted to a point short of complete caramelization, with the removal of substantially all moisture, and, while maintaining it in a substantially dry state, impregnated with fat to prevent reabsorption of moisture, and subsequently added seasoning material, the product being quickly transformable into soup by treatment with water.

1,380,816. SAFETY APPLIANCE. CHARLES E. MCDONALD, Butte, Mont. Filed Feb. 16, 1920. Serial No. 359,013. 11 Claims. (Cl. 126—35.)



1. In a pressure relief appliance for water fronts, a casing, a relief valve mounted in said casing, said valve having a passage therethrough, and means within said passage normally closing same, said means being adapted to be displaced to relieve abnormal pressure independent of valve movement.

1,380,817. PEDAL AND CONTROL-LEVER LOCK. CLARENCE L. MCDUFF, Detroit, Mich. Filed Nov. 5, 1920. Serial No. 421,829. 2 Claims. (Cl. 70—126.)



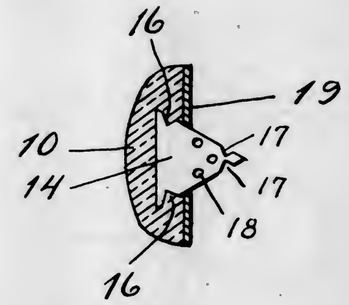
1. A device of the character described comprising a rigid frame member having a laterally extending arm at each end and an intermediate laterally extending arm, one of said end arms being formed with an eye and the other of said end arms being formed with an opening, a bar to close the open side of said frame and adapted to be inserted endwise through said eye, said bar being formed with a rectangular head to seat against the arm having the eye and said bar being provided at its opposite end with an opening to register with the opening in the adjacent frame arm, said intermediate frame arm being of a length to engage the side of said insertible bar intermediate its ends.

1,380,818. GAGE. FRANK R. MCGOWAN, Lowell, Mass. Filed Nov. 22, 1920. Serial No. 425,900. 6 Claims. (Cl. 265—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A gage for determining the tautness of aeronautical fabrics comprising a bar having on its lower side near one end a single longitudinal rib and near the other end two longitudinal ribs, the three ribs together affording a three point support for the bar; a feeler, means whereby said feeler is mounted at the medial portion of the bar for movement transversely thereof, movement indicating means controlled by the feeler; a weight having an opening through which the feeler passes and means whereby the weight may be connected interchangeably to either the feeler or the support.

1,380,819. ARTIFICIAL TOOTH. JOHN E. MABRIOTT, Latrobe, Pa. Filed Nov. 12, 1920. Serial No. 423,697. 1 Claim. (Cl. 32—9.)



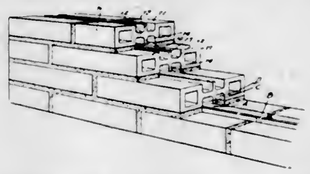
A tooth of the character described comprising a porcelain body, a triangular shaped securing pin projecting from the lingual surface of the body with its base embedded within the body, and a backing plate disposed against the lingual surface of the body and formed with a slot for the accommodation of said pin, the side edges of the pin near the base portion being formed with notches insuring retention of the pin within the body, the pin projecting beyond the backing plate and being adapted to be embedded within vulcanite used in "plate" work, the portion of the pin projecting beyond the backing plate being formed in its edges with notches.

1,380,820. VEHICLE-TIRE. LOUIS F. MARTIN, St. Paul, Minn. Filed Nov. 16, 1920. Serial No. 424,346. 2 Claims. (Cl. 152—22.)



1. In combination with the outer casing of a vehicle tire and the rim of a wheel on which said casing is mounted, an endless inner tube occupying the outer portion of the space in said casing and having a valve stem projecting inwardly through the rim of the wheel, and an auxiliary inner tube occupying the inner portion of the space in said casing in position to be inflated in the event the first mentioned inner tube is punctured and having a valve stem also projecting inwardly through the rim of the wheel, said first mentioned valve stem being passed between the adjacent ends of said auxiliary tube.

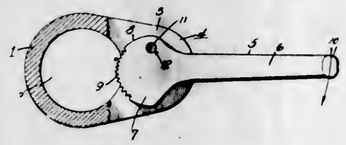
1,380,821. WALL CONSTRUCTION AND BRICK THEREFOR. ROBERT F. MARTIN, New York, N. Y., assignor to Robert F. Martin Corporation, New York, N. Y., a Corporation of New York. Filed June 18, 1918. Serial No. 240,673. 6 Claims. (Cl. 72—43.)



3. A building block comprising two longitudinally extending hollow load bearing sections transversely spaced

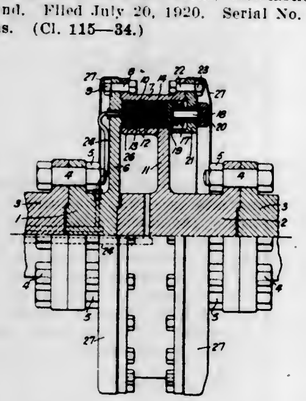
from each other for a distance not greater than the width of the individual sections, and non-load bearing means integrally connecting said hollow sections to each other and forming a plurality of longitudinally extending air passages in each side of the block, each passage being of a width appreciably less than the width of said hollow load-bearing sections.

1,380,822. LATHE-DOG. WILLIAM L. MASON, Holyoke, Mass. Filed Apr. 10, 1919. Serial No. 288,913. 1 Claim. (Cl. 82—42.)



In a lathe-dog, an annular head provided with a slotted elongated side, a lever pivotally mounted within said slot and provided with an angularly projecting finger, said lever provided with a circular face struck from the middle of said lever, the pivotal mount for said lever being positioned to the side of said middle on said lever and distant from the inner part of said annulus, so that when said middle is radial to the center of said annulus said annulus will receive a member to be clamped of almost the size of its inner diameter.

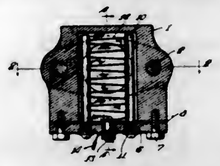
1,380,823. CLUTCH FOR TURBINE-DRIVEN GEARED PROPELLER-SHAFTS. THOMAS HUMPHREY MATTHEWS and HUGH WARREN LEE, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Elswick Works, Newcastle-upon-Tyne, England. Filed July 20, 1920. Serial No. 397,640. 3 Claims. (Cl. 115—34.)



1. The combination of a propeller, a divided propeller shaft, a clutch connected to said shaft, a geared turbine, and means adapted both to prevent the clutch from slipping when transmitting the drive and to prevent damage to the gearing by allowing slip when the propeller is unduly strained.

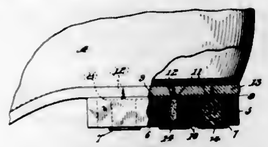
1,380,824. ENGINE INTAKE ATTACHMENT. FRANK P. MIES and FRANKLIN W. JARVIS, Chicago, Ill.; said Mies assignor, by direct and mesne assignments, to said Jarvis. Filed Feb. 9, 1920. Serial No. 357,123. 12 Claims. (Cl. 219—38.)

1. An engine intake attachment comprising a casing clamped between two consecutive portions of the normal intake duct of the engine, the said casing having a chamber larger in cross-section transversely of the said duct than the major portion of the latter and having an opening transverse of the said duct, intake screening means disposed within the said chamber transverse of the said



duct and adapted to be inserted and withdrawn through the said opening without detaching the casing from the adjacent duct portions, and movable means normally closing the said opening.

1,380,825. CUSHION SHOE-HEEL. JAMES I. MONNETT and HERBERT S. BLYNT, Yale, Okla. Filed Feb. 18, 1919. Serial No. 277,852. 1 Claim. (Cl. 36—59.)



A cushion heel, comprising a resilient lift having transverse openings therethrough and a recess in the upper face thereof, a flat plate of slightly smaller dimensions than the lift and snugly fitting in said recess, a plurality of cylindrical metallic thimbles rigid with said plate and extending through said openings in frictional contact with the walls of the latter, resilient plugs in said thimbles and extending slightly beyond the free ends of the latter, and screws extending through the plate centrally of the thimbles to secure the heel to the heel portion of a shoe, said screws being independent of the plugs whereby the plugs may be removed and inserted without removal of the heel as a whole.

1,380,826. SNAP-FASTENER. ISIDOR MOSS, Brookline, Mass. Filed Sept. 10, 1920. Serial No. 409,423. 2 Claims. (Cl. 24—213.)

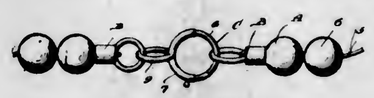


1. A snap fastener composed of two duplicate members each including an attaching base which is dished to present a bulging side and a recessed side, and a slotted hollow boss surrounded by and projecting from the recessed side of the base, said boss including a socket portion opening on the bulging side of the base and a head portion offset from the recessed side of the base, the head portion of either member being adapted to snap into engagement with the socket portion of the other member, so that one boss receives the head and is superimposed on the other boss, the dished form of the said bases distributing, at opposite sides of the fastener, the displacement, by the fastener, of two carrying parts between which the members are interposed.

1,380,827. BEAD-CLASP BASE. SHELBY S. MULLINS, Stuttgart, Ark. Filed May 21, 1920. Serial No. 383,225. 4 Claims. (Cl. 63—2.)

4. In a necklace, the combination with a plurality of beads, a string for the beads, a clasp, and bases arranged

at the terminals of said beads for engaging said clasps, said bases each including a cylindrical sleeve arranged to engage the outer surface of the end beads, and an outwardly extending ring arranged diametrically across the

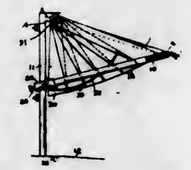


outer ends of the sleeves, the bead carrying string being threaded through the spaces between the ring and sleeve and over the ring and having the terminals thereof tied and positioned in said sleeves.

1,380,828. PROCESS OF MAKING LEAVEN. ROMEO NACIMENTO, San Francisco, Calif. Filed Dec. 20, 1917. Serial No. 208,069. 1 Claim. (Cl. 99—10.)

The method of making a leavening substance which consists of boiling about two pounds of potato peelings in sea water for about twenty-five minutes; thoroughly boiling about one-fourth pounti of hops separately; mashing the skins and thoroughly mixing therewith about three pounds of sugar and about three cupfuls of wheat flour; mixing with the mass the hops and hop water; mixing cream of tartar and carbonate of soda with the mass; reducing the temperature by adding sea water, and then setting the substance to raise.

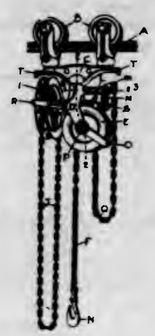
1,380,829. STORM AND SUN SHIELD. SHOICHI NAKAGAWA, San Jose, Calif. Filed July 27, 1920. Serial No. 399,265. 4 Claims. (Cl. 295—95.)



1. In combination with an automobile having a wind shield, of a frame hingedly connected with the wind shield and movable into vertical and inclined positions relative to said wind shield, a transparent wind shield carried by said frame and bars pivoted to and for supporting said frame with the wind shield therein in downwardly and outwardly inclined position relative to the first-named wind shield, shutter members pivotally and slidably associated with one another on opposite sides of said frame and arranged to inclose spaces on the sides of said frame when said frame is extended into inclined position, and hook members on said bars adapted to engage portions of the automobile wind shield to support the frame in operative position, certain of said shutter members having openings therein through which said hook members extend.

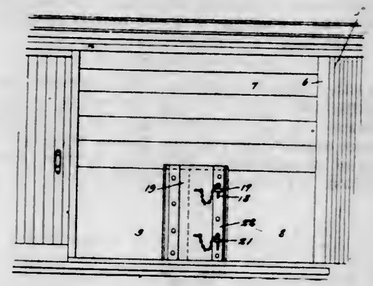
1,380,830. COMBINED TROLLEY AND HOIST. ALBERT H. NELLER, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed July 19, 1920. Serial No. 397,284. 4 Claims. (Cl. 212—134.)

1. The combination of a trolley adapted to run on an overhead track, a hoisting device having a frame connected to the trolley, a rotatable shaft having means adapted to operate the hoisting device mounted in said frame, a horizontally disposed fixed member having its inner end inserted in the frame above the rotatable shaft, its outer end being extended in a line approximately parallel with the rotatable shaft, and a downwardly de-



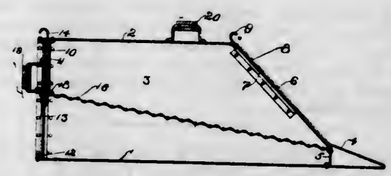
pending bracket secured to the outer end of said member, and the outer end of the rotatable shaft journaled in the lower end of the bracket.

1,380,831. CAR-DOOR. CARL NELSON and FRANK SNYDER, Council Bluffs, Iowa. Filed July 7, 1920. Serial No. 394,424. 1 Claim. (Cl. 20—30.)



In a car door, door members separable from one another, the said door members having metallic facings on their inner sides at the outer ends apertured to receive fastenings entering a door frame of a box car, a face plate adapted to lap the joint between the said door members and project thereabove to form an abutment for a lowermost closure member above the door, and means for securing the face plate to the door members on opposite sides of the joint between said door members.

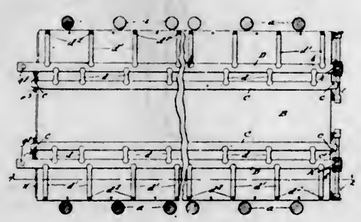
1,380,832. ASH-SIFTER. EDWARD NICHOLAS, Cambridge, Mass. Filed Nov. 17, 1920. Serial No. 424,646. 6 Claims. (Cl. 83—60.)



1. In an ash sifter, the combination of a casing, an interior screen extending lengthwise of the casing and

forming a foraminous partition dividing the casing into upper and lower compartments, open at their opposite ends to form respectively an intake and outlet, and doors mounted in said casing to tightly close said open ends to prevent the escape of dust during the sifting operation, substantially as described.

1,380,833. APPARATUS FOR USE IN MAKING BELTS OR THE LIKE. CHARLES H. PAEPLOW, Buffalo, N. Y. Filed Dec. 10, 1920. Serial No. 429,774. 17 Claims. (Cl. 18—17.)



1. In an apparatus for treating belting and the like, the combination of a platen adapted to receive the belt and to press the same against another platen, side bars movable toward and from the belt, and means engaging said side bars at intervals for moving the same toward and from the belt and for holding said side bars in operative relation to the belt.

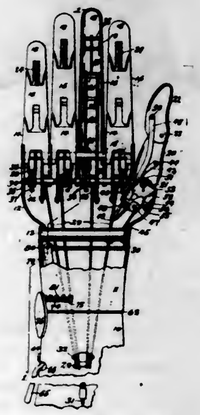
1,380,834. SPRAY-NOZZLE AND METHOD OF DISTRIBUTING LIQUID. LEE H. PARKER, Boston, and CHARLES H. LANDON, Wollaston, Mass., assignors to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed June 3, 1920. Serial No. 386,246. 23 Claims. (Cl. 299—115.)



1. A spray nozzle comprising a shell or casing having an inlet and an outlet, means to subject all the entering liquid to a centrifugal or whirling action, and means to cause the simultaneous withdrawal and inward projection of a portion of the liquid so subjected to a centrifugal or whirling action.

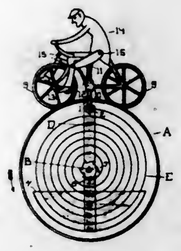
1,380,835. ARTIFICIAL LIMB. ALBERTO PECORELLA and VINCENT PATRICOLO, Buffalo, and FREDERICK H. APEL, Athol Springs, N. Y. Filed Oct. 23, 1919. Serial No. 332,698. 17 Claims. (Cl. 3—12.)

1. An artificial limb comprising a palm, a finger pivoted on said palm, and means operating constantly to turn said finger into a closed position relatively to said palm comprising a hub mounted on the finger, and a leaf spring



secured at one end to said hub and engaging its opposite end with said palm.

1,380,836. TOY. VICTOR E. RANDALL, Battle Creek, Mich., assignor of one-half to Walter Clemence, Battle Creek, Mich. Filed Feb. 24, 1919. Serial No. 278,900. 1 Claim. (Cl. 46—45.)

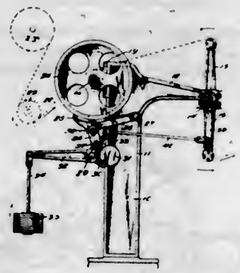


In a toy, the combination of two hemispherical bodies spaced to form a slot, an axle connecting said bodies, a frame suspended on said axle having vertically spaced intermediate portions with overlapping offset ends, an arm passing through said offset ends above said axle; and extending through the slot between said bodies, a ratchet wheel fixed on said axle between said intermediate frame portions, a coil spring having an offset at its free end adapted to engage the teeth of said ratchet and fastened at its opposite end to said arm at its junction with said offset frame ends, counterbalancing weight supported in said frame on ether side of said spring below said axle.

1,380,837. TENSION DEVICE. MARK A. REPLOGLE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 15, 1918. Serial No. 244,990. 5 Claims. (Cl. 273.)

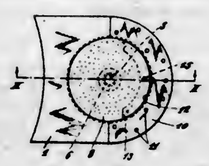
1. A tensioning structure comprising a support, a primary pressure-producing device sustained thereby and including a drum, a brake-shoe engageable therewith, a primary pressure-producing device associated with the brake-shoe and including a counterbalanced bell-crank-lever; in combination with a seconadry pressure-producing

device including an oscillatory instrumentality and a connection between said instrumentality and the bell-crank-



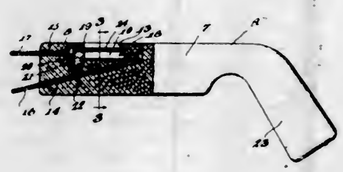
lever whereby movement of the instrumentality effects movement of the bell-crank to change the relation of the brake-shoe with respect to the drum.

1,380,838. HEEL. JAMES G. ROBERTSON, New York, N. Y. Filed June 6, 1918. Serial No. 238,446. 5 Claims. (Cl. 36—39.)



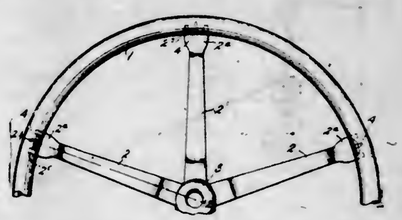
1. In a device of the class described, the combination with a heel having a recess formed in its lower surface, a wear piece forming a portion of the wall of said recess, a disk mounted in said recess, and means positioned within said heel for rotatably supporting said disk.

1,380,839. SPARK-PLUG TESTER. GUSTAVE ROSENBAUER, Jersey City, N. J. Filed July 26, 1920. Serial No. 398,863. 6 Claims. (Cl. 175—183.)



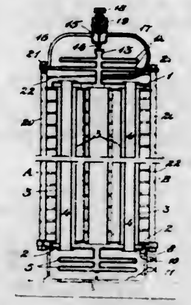
2. A spark plug tester comprising a body formed of electric non-conducting material, having a recess formed in its upper edge, an electric lamp fitted in said recess including a pair of spaced electrodes, a block of insulating material arranged to engage the upper surface of the lamp to hold the same in position against accidental displacement, and a pair of forwardly projecting contacts embedded in said body and connected to said electrodes.

1,380,840. STEERING-WHEEL. DAVID E. ROSS, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Feb. 9, 1920. Serial No. 357,323. 10 Claims. (Cl. 74—33.)



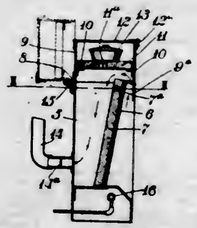
1. In a wheel, a rim, and spokes having lips and dowels on their outer ends, the dowels being adapted to enter the rim and the lips to bear against the rim.

1,380,841. PNEUMOTHERMIC APPARATUS. ADOLFO SALVADOR SALAS, Buenos Aires, Argentina. Filed Dec. 27, 1920. Serial No. 433,525. 6 Claims. (Cl. 200—140.)



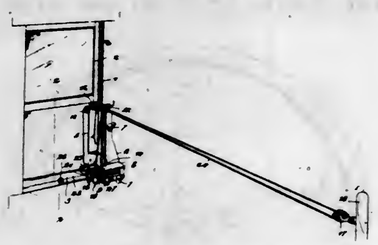
3. In a thermostatic alarm, an expansion chamber, a passage permitting air to enter and leave said chamber arranged to be opened and closed by an expansible portion of said chamber.

1,380,842. STOVE. AUGUST SCHAFFER, Columbus, Ohio. Filed May 26, 1919. Serial No. 299,719. 3 Claims. (Cl. 126—86.)



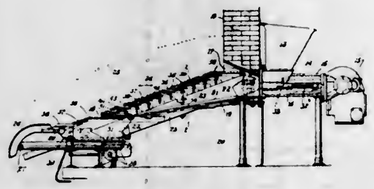
1. A stove including in combination, a body having a burner, a fire plate the back of which forms an upright seat for a slab, a removable slab on said seat, a hood having a seat for a slab, a slab of heat absorbing material on that seat, said seat being in spaced relation to the upper end of the first mentioned seat, said body provided with a vent in its rear below the upper end of the first mentioned seat whereby the products of combustion are deflected by the second mentioned slab across the back of the first mentioned slab.

1,380,843. CLOTHESLINE-PROTECTOR. IRVING SCHENKER, Ellenville, N. Y. Filed July 3, 1920. Serial No. 393,925. 3 Claims. (Cl. 68—3.)



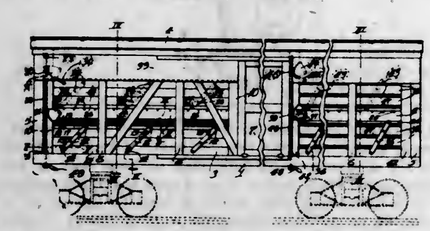
2. A clothesline support comprising an arm for supporting one end of a pulley line, means for pivotally mounting said arm exteriorly of a window in such a manner as to be capable of swinging through the window, means for locking the arm exteriorly of the window, means for locking the arm against movement when extending through the window, a rotatable bar carried by said arm formed with a clamping hook at one end adapted to partially encircle and bring under tension said line when the arm is swung to an outer position, and means for locking said bar against rotation.

1,380,844. TWYER CONSTRUCTION FOR FURNACES AND UNDERFEED STOKERS. HERMAN SCHMIDT, New York, N. Y., assignor to Ernest B. Priebe and Warren C. Drake, Inwood, N. Y. Filed Aug. 31, 1918. Serial No. 252,230. 11 Claims. (Cl. 110—44.)



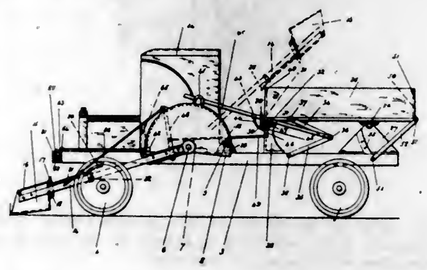
1. For a furnace grate of the type having inclined air boxes between and above which the fuel bed advances descendingly toward the furnace rear, a twyer system overlying each air box, and comprising a series of flatwise members resting in overlapping relation upon each other and relatively arranged to afford a series of air nozzles directed upwardly into the fuel bed overlying said members.

1,380,845. CONVERTIBLE STOCK-CAR. GEORGE L. SEANOR, Sapulpa, Okla., assignor of one-half to Alfred S. Abbott, Springfield, Mo. Filed July 31, 1916. Serial No. 112,270. 5 Claims. (Cl. 119—8.)



1. In a vehicle construction, a side wall comprising a series of slidably mounted members, said members adapted to abut each other, means for spacing said members apart and a pocket for receiving the displacement of one of said members, said pocket and said member to be displaced therein providing means whereby when said members abut one another a continuous wall is formed.

1,380,846. DUMPING-TRUCK. FREDERICK R. SILLS, Statesville, N. C., assignor of one-half to Carolina Motor Company, Statesville, N. C. Filed June 29, 1920. Serial No. 392,783. 7 Claims. (Cl. 298—21.)

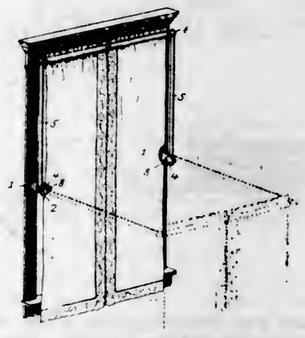


1. The combination, with a wheeled frame, of supports pivoted to the frame and provided with laterally projecting pins, a receptacle for dirt pivoted to the frame, lever mechanism for tilting the said receptacle, operating rods connected with the said lever mechanism and provided with gab ends for engaging with the said pins, and means for moving the said supports pivotally to operate the said rods and tilt the receptacle.

1,380,847. METHOD FOR TREATING FERROUS-METAL ARTICLES. FRANK L. SORENSEN, Detroit, Mich., assignor to The Metal Protection Laboratories, Detroit, Mich., a Corporation of Michigan. Filed July 17, 1919. Serial No. 311,575. 10 Claims. (Cl. 91—68.)

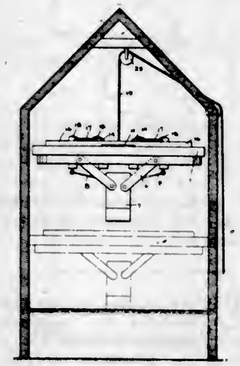
9. The method of providing metal with a corrosion resisting coating which consists in the frictional application thereto of a mixture of another metal in finely divided form together with a compound of said other metal and caustic alkali and water.

1,380,848. CURTAIN-POLE SUPPORT. STANLEY W. STACK, Chicago, Ill. Filed Dec. 3, 1920. Serial No. 427,955. 5 Claims. (Cl. 156—22.)



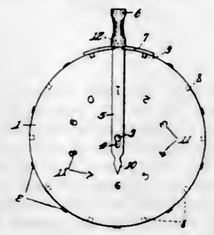
4. In a curtain support of the type described, a swinging arm adapted to carry a curtain pole at one end, a bracket member adapted for attachment to a window frame and having an expanded pivot head at its free end provided with a vertical holding channel in one face for holding engagement with said arm and with a stop lug at one side of said channel, a casing secured to the opposite face of the bracket, a headed pivot stud secured to said arm and extending through said shell and bracket, and a spring associated with said stud and adapted to maintain said arm in the holding channel of the bracket.

1,380,849. COVER FOR ENSILAGE. JOHN H. STACY, Clintonville, Wis. Filed Aug. 4, 1920. Serial No. 401,154. 5 Claims. (Cl. 217—86.)



1. A cover for ensilage, including opposed relatively movable lower sections, means for covering the space between said sections during said relative movement, opposed top sections movable relative to each other along lines at right angles to the direction of relative movement of the lower sections, a weight suspended below the cover, connections between the weight and the opposed lower sections for holding said sections normally drawn together, means for transmitting motion from the lower section to the upper section for holding said upper sections normally drawn together, and a flexible support for the cover.

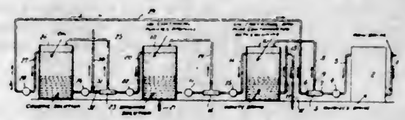
1,380,850. MULTIPLE-CHARACTER STENCIL. WILLIAM H. STRAUSER, Fairmont, W. Va. Filed Apr. 11, 1921. Serial No. 460,340. 8 Claims. (Cl. 101—29.)



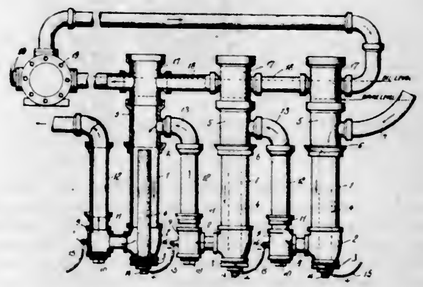
1. A multiple character stencil comprising a disk having a series of characters on its periphery, a centrally disposed pivot pin carried by said disk, a yoke disposed in straddling relation to said disk and having slots in the parallel members thereof, said pin being received in said slots, an impact head formed on said yoke, and a saddle plate carried by said yoke and adapted to seat on the periphery of said disk.

1,380,851. PROCESS OF SEPARATING HALOGEN FROM NATURAL BRINES. HENRI TOBLER, Hackensack, N. J. Filed Aug. 14, 1918. Serial No. 249,761. 11 Claims. (Cl. 23—13.)

1. In the process of separating halogen from natural brine, the steps which comprise the oxidation of brine to liberate elementary halogen and the extraction of said liberated halogen from the brine by means of a pure saturated light hydrocarbon oil having a distribution coefficient for elementary halogen with respect to said brine greater than about 6.

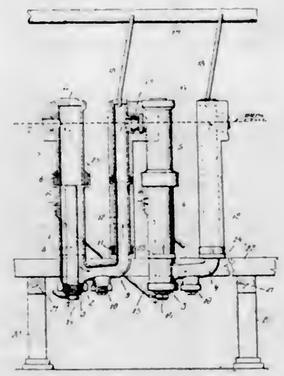


1,380,852. ELECTROLYTIC APPARATUS. HENRI TOBLER, Hackensack, N. J., assignor to American Bromine Company, Maywood, N. J., a Corporation of New Jersey. Filed June 19, 1918. Serial No. 240,781. Renewed July 29, 1920. Serial No. 399,883. 10 Claims. (Cl. 204—5.)



6. Electrolytic apparatus comprising a series of metal containers adapted to serve as cathodes, an insulating fitting surmounting each container, an insulating pipe for circulating brine by a tortuous path from the lower part of one container into the insulating fitting which surmounts the next container, a carbon electrode in each container to form therewith an electrolytic cell, and means electrically connecting said cells in series to progressively electrolyze the brine as it passes through the series of containers.

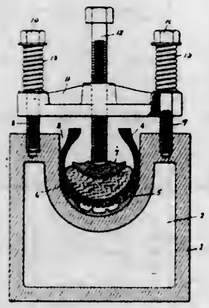
1,380,853. ELECTROLYTIC APPARATUS. HENRI TOBLER, Hackensack, N. J., assignor to American Bromine Company, Maywood, N. J., a Corporation of New Jersey. Filed Nov. 8, 1920. Serial No. 422,431. 8 Claims. (Cl. 204—58.)



1. Electrolytic apparatus comprising a series of metal containers adapted to serve as cathodes at different elec-

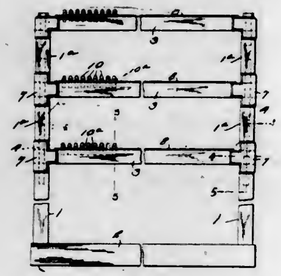
trical potentials, means for circulating brine by a tortuous path from one container to another, a carbon anode positioned in each container and about which said brine circulates during electrolysis, each of said containers having an integral extension with a clean-out opening through which sediment deposited from the brine may be flushed out.

1,380,854. CLAMP FOR VULCANIZING-MOLDS. WILLIAM VANDERPOOL, Springfield, Ohio. Filed Jan. 17, 1920. Serial No. 352,161. 4 Claims. (Cl. 18—43.)



1. In a clamp of the character described, the combination of a vulcanizing mold, a pair of posts having an engagement with the walls of said mold at points opposite each other, a cross-bar loosely mounted on said posts, springs between said cross-bar and abutments on the posts, and a clamping screw threaded in said cross-bar.

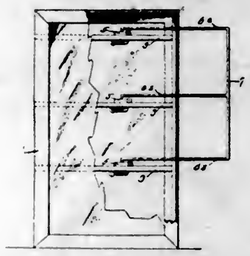
1,380,855. DISPLAY-RACK. MILTON H. WALLERSTEIN, Paducah, Ky. Filed Jan. 9, 1920. Serial No. 350,340. 1 Claim. (Cl. 211—14.)



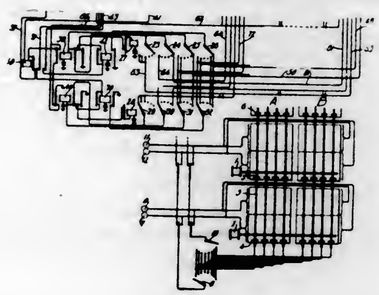
A device of the type described, including end and transverse members, the transverse member being received between the end-members, said end-members having bores in opposed ends and said transverse member having an orifice in each end alining with the bores of said end-members, dowels received within the bores of said end-members and passed through the orifices of said transverse member, and means adapted to receive said opposed ends of the end-members and the orificed end of said transverse member.

1,380,856. DISPLAY-RACK. MILTON H. WALLERSTEIN, Paducah, Ky. Filed Feb. 18, 1920. Serial No. 359,528. 1 Claim. (Cl. 211—16.)

A device of the type described, including a plurality of transverse traveling members each provided with a plurality of hanger-members, means adapted to allow of the movement of said traveling members comprising trucks carrying the latter and adapted to provide for the attachment thereto of the said traveling-member, a hanger-member of each plurality thereof being connected together by a common member.



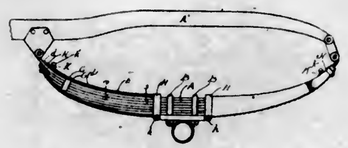
1,380,857. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,510. 10 Claims. (Cl. 179—18.)



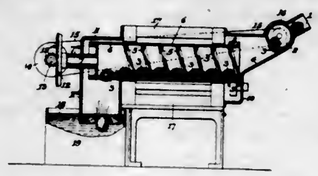
1. In a telephone exchange system, calling lines arranged in groups, the lines of each group being arranged in a fixed order, a contact bank comprising a plurality of sections, multiple contact sets in said bank, said lines terminating in said contact sets, a plurality of line finder switches arranged for coöperation with each of said sections, the various groups being so arranged in the various sections that a different group appears as a first choice in each of said sections, and means operative upon the initiation of a call for putting into operation an idle one of the switches which serve a section of said contact bank in which the group containing the contact set of the calling line appears as a first choice.

1,380,858. SPRING-COVER. CHARLES B. WOODWORTH, Niagara Falls, N. Y., assignor to Woodworth Manufacturing Corporation, Binghamton, N. Y. Filed Mar. 6, 1920. Serial No. 363,863. 17 Claims. (Cl. 267—37.)

6. A spring cover having an outer casing of impervious material and a pad of absorbent material, the ends of said casing and one of the longitudinal edges thereof being folded over the adjacent portions of said pad, and fastening devices secured to said longitudinal edge of the casing and adapted to engage with any portion of the casing when said cover is arranged around the spring, said folded longitudinal edge overlapping said other edge, whereby no portion of the pad is exposed.

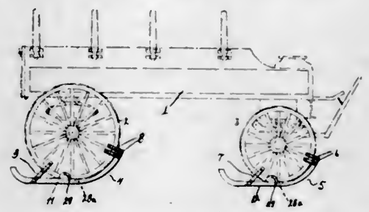


1,380,859. PROCESS OF REMOVING SHELLS FROM COCOANUTS. FRANKLIN BAKER, Jr., Philadelphia, Pa., and Simon Cooper, New York, N. Y., assignors to the Franklin Baker Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1917, Serial No. 187,351. Renewed Aug. 30, 1918. Serial No. 252,121. 17 Claims. (Cl. 146—14.)



9. The process of removing cocoanut shells, which comprises heating whole cocoanuts to render the shell brittle, suddenly arresting the heating action upon the shell, without otherwise impairing their integrity, and then breaking said shell.

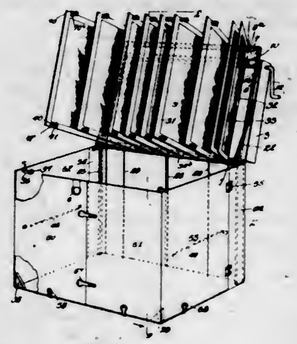
1,380,860. SLED ATTACHMENT FOR VEHICLES. JAN BARTUZEL, Youngstown, Ohio. Filed July 21, 1920. Serial No. 397,817. 1 Claim. (Cl. 280—13.)



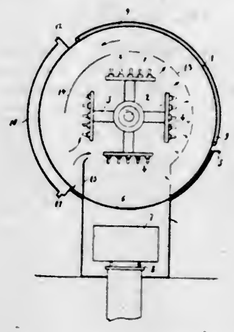
A wheel runner attachment comprising a single unitary element bent upwardly at its front end and to a lesser extent at the rear, said element having a central channel receptive of a portion of the rim of a single wheel, a brace riveted to said element at the rear thereof, forks formed with said brace engaging the wheel rim, two distinct pairs of forks riveted to the front bent end of said runner element also engageable with the wheel rim and manually operable spring impelled devices carried by each of said forks for detachably engaging the runner to the rim, said devices being arranged in opposed paired relation.

1,380,861. COMMERCIAL TRAVELER'S DISPLAY-TRUNK. THOMAS BELAIR, Montreal, Quebec, Canada. Filed July 15, 1919. Serial No. 311,071. 17 Claims. (Cl. 190—16.)

4. In combination, a trunk, a stand located within the trunk and including a series of relatively movable sample supporting members, mechanism for moving the stand into and out of the interior of the trunk and means for automatically moving the sample supporting members toward each other when the stand is moved into the trunk.



1,380,862. APPARATUS FOR MANUFACTURING SEAMLESS ARTICLES OF RUBBER. ALBERT BOECLER, Malmö, Sweden. Filed Sept. 13, 1920. Serial No. 409,970. 6 Claims. (Cl. 18—24.)



1. Apparatus for manufacturing seamless articles of rubber, consisting of dipping means and solvent recovering means, a casing for the recovering means, a mold carrier journaled within the said casing, cooling means and heating means so arranged on the solvent recovering means that different temperatures will be obtained on the two sides of the mold carrier.

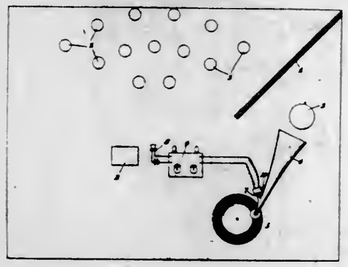
1,380,863. TREATMENT OF CRUDE PETROLEUM FOR PURIFICATION. JOSEPH WALLACE BOSTICK and CHARLES H. HOMER, Houston, Tex. Filed July 29, 1919. Serial No. 314,138. 5 Claims. (Cl. 196—25.)



1. A process of treating crude petroleum oil, which comprises gently flowing the same in a relatively quiescent state through a series of shallow tanks in which the oil is heated at its upper part to a substantially higher temperature than at its lower part, allowing sedimentation in each of said tanks, drawing off separately from each

of said bodies of oil the impurities which settle out, allowing oil from the surface portions only of said shallow bodies of oil to progress to the succeeding bodies, and drawing off and condensing the vapors evolved in such heating operation.

1,380,864. METHOD OF RECORDING SOUND. WILLIAM H. BRISTOL, Waterbury, Conn. Filed Jan. 13, 1920. Serial No. 351,146. 5 Claims. (Cl. 274—46.)



1. The method of effecting upon a suitable record surface, a phonographic record of a selection with accompaniment, which consists in individualizing the selection, separately collecting the accompaniment, amplifying same, and simultaneously recording both upon the same record surface.

1,380,865. BOOT AND SHOE AND PROCESS OF MAKING SAME. ALBERT L. CLAPP, Marblehead, Mass., assignor, by mesne assignments, to Fibreboard Company, Boston, Mass., a Corporation of Massachusetts. Filed July 13, 1917. Serial No. 180,478. 17 Claims. (Cl. 12—142.)

1. That step in the process of manufacturing a boot or shoe, which is characterized by treating the counter or other stiffening material with a solution for preventing shrinkage thereof.

2. That step in the process of manufacturing a boot or shoe, which is characterized by treating the counter or other stiffening material with a solution of alum or aluminum sulfate for preventing shrinkage thereof.

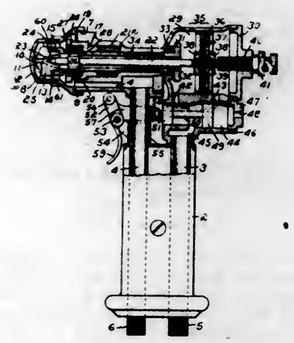
3. That a step in the process of making boots and shoes comprising a counter or other stiffening material composed of a leather substitute, which is characterized by treating the counter or other stiffening material with a 15% solution of alum or aluminum sulfate, by immersing it in said solution until it is impregnated therewith to prevent shrinkage thereof.

4. That step in the process of making a turn-shoe, which is characterized by tempering the counter or other stiffening material before turning the shoe with a solution adapted to prevent it from shrinking in drying.

5. That step in the process of making a turn-shoe, which is characterized by tempering the counter or other stiffening material before turning the shoe with a tempering solution of alum or aluminum sulfate to prevent shrinkage thereof.

1,380,866. TOOL FOR APPLYING COATING. HERBERT W. DAY, Wollaston, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed July 9, 1919. Serial No. 309,691. 31 Claims. (Cl. 91—45.)

1. Means for applying coating comprising means including two coating surfaces for maintaining therebetween a film of coating material, said surfaces having film discharge openings, means whereby a motive agent may break through said film and discharge it through said openings, said means including a valve controlling the flow of motive agent through said openings, and means for providing first a flow of motive agent through said openings by movement of said valve and then for producing,



through the motive agent and by relative movement of said surfaces, a free movement of the coating material for film formation and maintenance.

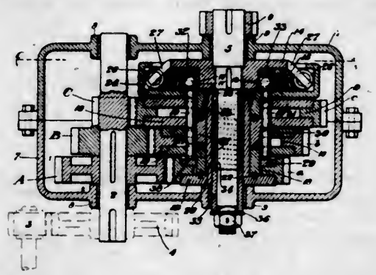
1,380,867. VALVE. SERGE VINCENT DE BOLOTOFF, Roehampton, London, England. Filed Feb. 24, 1920. Serial No. 360,914. 2 Claims. (Cl. 251—41.)



1. The combination with a reciprocating valve, a guide by which it is guided in its reciprocation, a shaft, a crank on the shaft, a connecting rod, said crank and connecting rod constituting a toggle which forms the operative connection between the shaft and the valve, an operating arm connected to the shaft, two fixed stops against one of which the operating arm abuts in the closing of the valve and against the other of which said arm abuts in the opening of the valve, the arm and toggle being so arranged in relation to each other that the toggle will be stopped by one stop after the valve is shut in a position wherein the links of the toggle are to that side of a line beyond which the fluid pressure acting on the valve tends to keep them in its tendency to reopen the valve, and which will also be stopped by the other stop after the valve is open, wherein the links of the toggle are to the same side of the said line beyond which fluid pressure acting on the valve tends to keep them if the pressure should tend to reclose the valve.

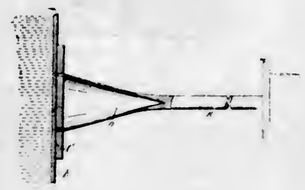
1,380,868. VARIABLE-SPEED POWER-TRANSMITTING MECHANISM. HANS ENARD, Pittsburgh, Pa., assignor of one-half to William J. Heyl, Pittsburgh, Pa. Filed June 10, 1920. Serial No. 387,867. 20 Claims. (Cl. 74—59.)

20. In power transmitting mechanism embodying a driving shaft, a driven shaft having a fixedly attached pressing member, a series of gears secured to the driving shaft, and a series of floating gears surrounding the driven shaft; a series of individual locking pins for successively connecting the floating gears to the driven shaft, and a rolling ball mounted in and laterally movable with the pressing member of the driven shaft adapted to be carried



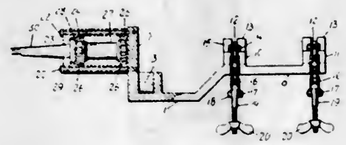
thereby into operative engagement with the several locking pins in the order described.

1,380,869. SUBMARINE SIGNALING. RICHARD D. FAY, Nahant, Mass., assignor to Hammond V. Hayes, Boston, Mass. Filed Mar. 26, 1920. Serial No. 369,064. 7 Claims. (Cl. 181—0.5.)



1. A device of the kind described comprising two members and a rod connecting said members, said rod being made of elastic material whereby the motion of one of said members, when transmitted longitudinally through said rod to the other member, will have its amplitude changed.

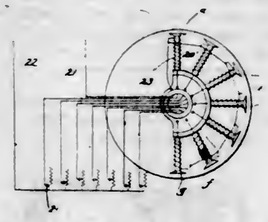
1,380,870. EMERGENCY-AXLE FOR AUTOMOBILES. FREDERICK O. LEWIS, Dayton, Ohio. Filed Mar. 3, 1921. Serial No. 449,523. 4 Claims. (Cl. 301—130.)



1. A device of the type described, comprising an elongated member, a bearing secured to the front end of the latter, an axle shaft journaled in said bearing, and clamping means on the rear end of said elongated member for securing it firmly to the axle of an automobile.

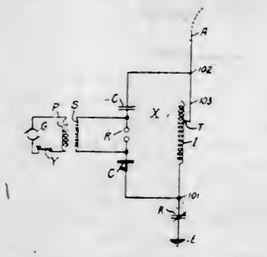
1,380,871. APPARATUS FOR MAGNETIC SIZING AND GRADING OF ORE. WALTER G. SWART, FRED A. JORDAN, EDWARD W. DAVIS, and THEODORE B. COUNSELMAN, Duluth, Minn. Filed Sept. 11, 1917. Serial No. 190,719. 5 Claims. (Cl. 83—71.)

1. In apparatus of the class described a rotatable drum and a series of electro-magnets distributed in arcuate form within and adjacent the periphery of said drum and coacting therewith to attract magnetically susceptible particles carried thereto some of said magnets being of relatively strong excitation and other magnets being of rela



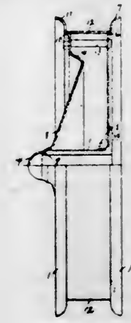
tively weak excitation to produce substantially distinct areas of variable magnetic potency and means for changing the location of said areas.

1,380,872. RADIO-COMMUNICATION TRANSMITTER. ROY E. THOMPSON, New York, N. Y. Filed Sept. 24, 1917. Serial No. 192,883. 1 Claim. (Cl. 250—17.)



In a radio transmitting apparatus, a combination with an exciting circuit of non-persistent oscillatory character, of a radiating circuit of a persistently oscillating character, and means for coupling said circuits and having a coupling value sufficient to cause the transfer of energy from the exciting circuit to the radiating circuit when said circuits are not tuned to the same period; and a multiplicity of spark gaps equally adjustable from a single control in the exciting circuit for preventing the transfer of energy from the radiating circuit to the exciting circuit while permitting transfer of energy from the exciting circuit to the radiating circuit, substantially as described.

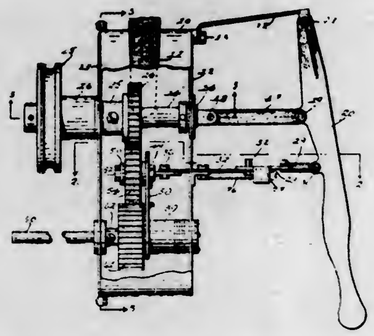
1,380,873. DISK VEHICLE-WHEEL. RUSSELL J. TURNER, Youngstown, Ohio, assignor of one-half to C. T. Gaither, Youngstown, Ohio. Filed July 16, 1920. Serial No. 396,851. 2 Claims. (Cl. 301—63.)



1. In a device of the class described, the combination of a hub, an inner flange on said hub, a rear disk secured

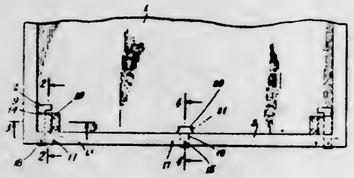
to said flange, a collar formed on said disk and fitting around said hub, a front disk without a central opening, a boss centrally located on said front disk, said boss wedging securely over the outer end of said hub, bolts passing through disks, substantially as described for the purpose set forth.

1,380,874. GEAR-SHIFTING DEVICE. JOHAN VALENT, West Hoboken, N. J. Filed June 5, 1920. Serial No. 386,665. 5 Claims. (Cl. 74—58.)



1. A gear shifting device of the character described comprising a train of gears, a hand lever, and means for operating said gears to rotate the pulley, to run in one or the other direction, said means comprising a sliding plate having a central zig-zag slot, a link pivotally connecting said plate to said hand lever, a two-armed lever pivotally supported in its center, a pin in one of said arms engaging the slot in said plate, a T-plate pivotally connected to the other of said arms, a train of gears adapted to be operated by said hand lever and T-plate for rotating the pulley to run in one or the other direction upon the operation of said lever, and means for moving said gears in and out of their neutral position.

1,380,875. LOCKING DEVICE FOR COLLAPSIBLE CONTAINERS. ALEXANDER L. WARD, New York, N. Y. Filed Aug. 5, 1918. Serial No. 248,312. 3 Claims. (Cl. 217—56.)



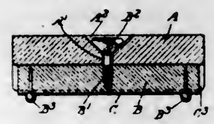
1. In a container, the combination of vertical sections, a cover section having edge flanges bent to form an inverted U-shape thereabout, into which the upper edges of the vertical sections extend when the container is assembled, horizontal bolts adjacent the corners of the cover section, mounted to slide on the cover section against the inner vertical edge flanges of the ends and to extend through openings in the side sections and outer side vertical cover flanges in alinement therewith, flanged cover plates extending transversely across said bolts, having upwardly extending shoulders at one side and abutting against said inner vertical edge flanges at the other side, said bolts having side offset portions thereon adapted to slidably engage said shoulders and to abut against the inner vertical side flanges of the cover, to stop the bolts in shot position.

1,380,876. ARTIFICIAL FISH-BAIT. WILLIAM S. WARDEN, New York, N. Y., assignor to Baker, Murray & Imbrie, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 30, 1919. Serial No. 320,908. 1 Claim. (Cl. 43—44.)



An artificial bait, comprising an elongated body of transparent material having a water-tight chamber, a luminous substance contained in said chamber, head and tail members having annular flanged portions fitted to the opposite ends of said body, a strip connecting said members for holding them in position on the body and formed with loops adjacent its opposite ends and hooks loosely connected with said loops of the strip.

1,380,877. RECORD-SLIP SUPPORT. JOHN WILLY, Chicago, Ill. Filed July 16, 1919. Serial No. 311,134. 2 Claims. (Cl. 40—20.)



1. The combination with a record slip of a support therefor, comprising a plurality of face projections, a plurality of separate perforations in said slip to engage said projections, each of said perforations inwardly slit toward and short of the other.

1,380,878. AIR-PUMP. GEORGE W. WRIGHT, Lapel, and RAYMOND W. NICHOLS, Kokomo, Ind. Filed June 21, 1920. Serial No. 390,385. 4 Claims. (Cl. 230—27.)

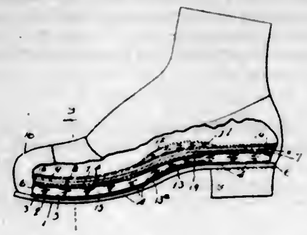


1. A pump including a hollow cylinder, a piston head in the cylinder, a pump rod in the cylinder having a hollow portion extending through and rigidly secured to the piston head, the end of the hollow portion being open, a packing ring on the piston head in connection with the cylinder, a valve removably arranged on the packing ring and the open end of the pump rod, and a spring having connection with the valve and the pump rod and tensioned to yieldingly hold the valve in place.

1,380,879. SHOE. CARL YOUNG, Chicago, Ill. Filed May 19, 1913, Serial No. 768,500. Renewed Nov. 3, 1920. Serial No. 421,599. 10 Claims. (Cl. 36—28.)

1. A shoe comprising a sole made up of separated sections having a space between them extending substantially

the entire length of the shoe, and a separate elastic sole piece comprising a series of spiral springs in the bottom of



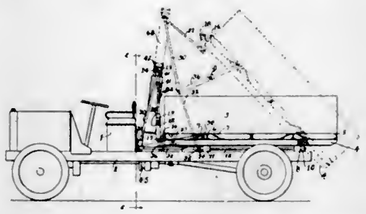
the shoe, and flexible inclosing pieces between which said springs are held, said separate sole piece fitting in said space and extending substantially the length thereof.

1,380,880. COLLAPSIBLE CONTAINER. ALBERT L. AUSTIN, Cleveland, Ohio. Filed June 18, 1919. Serial No. 305,129. 8 Claims. (Cl. 229—41.)



1. A container, comprising separate side and bottom walls having opposite inwardly and upwardly foldable coincident gussets, respectively.

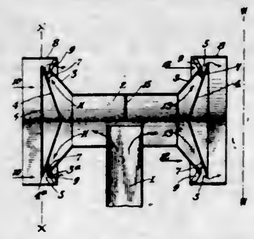
1,380,881. DUMPING-TRUCK. PERCY E. BARKER, Cleveland, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 21, 1920. Serial No. 390,412. 17 Claims. (Cl. 298—21.)



1. A dumping apparatus comprising a supporting frame, a dumping body pivotally carried by said frame and lifting mechanism comprising an elevating member and sets of links secured to the body and to said elevating member and arranged to independently control the position of the body at different stages of tilt.

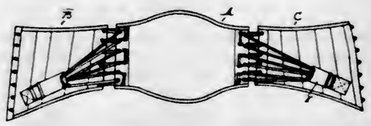
1,380,882. CHIMNEY CAP OR VENTILATOR. ARTHUR F. BRASSINGTON, Port Richmond, N. Y. Filed May 24, 1920. Serial No. 383,696. 7 Claims. (Cl. 98—4.)

7. In a chimney cap or ventilator, the combination with a vertically disposed delivery pipe closed at its upper end and provided with a plurality of horizontally disposed eduction passages communicating therewith, provided with outwardly flaring ends terminating in eduction apertures of greater area than the main portions of said passages, said passages extending in different directions radially with respect to the longitudinal axis of the delivery pipe, a deflector permanently and rigidly supported across each of said eduction apertures, said deflectors having at least as great an area as said flaring apertures, and being spaced uniformly from the edges of said apertures to form a discharge slit of an area substantially equal to that of the adjacent eduction passage, and having convex portions projecting into said flaring apertures,



a sleeve surrounding the flared portions of each of said eduction passages, coaxial therewith and spaced uniformly from the edges of said deflector and eduction aperture, and a vertically disposed stationary partition in the upper portion of said eduction passages, and substantially in alinement with the longitudinal axis of the delivery pipe.

1,380,883. ABDOMINAL SUPPORT. SAMUEL H. CAMP, Jackson, Mich. Filed Mar. 18, 1916. Serial No. 85,025. 7 Claims. (Cl. 2—188.)



1. A support, comprising a main section and a tab section, one of which has one row of eyelets and the other of which has two rows of eyelets, adjustable connections between said sections comprising a lacing adapted to be looped through one row of eyelets on one of said sections and through two rows of eyelets on the other of said sections, and a fastening member positioned outside of said sections and secured to said lacing, said fastening member extending toward the front of the support and adapted when drawn forward to pull the tab section rearwardly toward the main section so as to exert pressure at predetermined portions of the support.

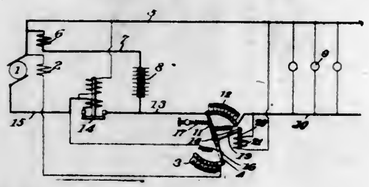
1,380,884. TOILET-POWDER RECEPTACLE AND BRUSH. GEORGE COSMOS, St. Louis, Mo. Filed Nov. 26, 1920. Serial No. 426,590. 3 Claims. (Cl. 132—79.)



1. A toilet-article including brush-bristles, in combination with a tubular handle for the bristles, the handle be-

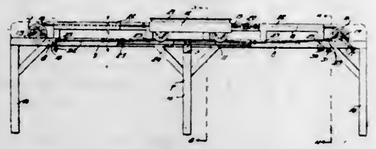
ing adapted to contain a toilet-preparation and having at its opposite ends separate discharge-outlets for the preparation, one of which outlets leads into the brush-bristles, and means for independently controlling the discharge of the toilet-preparation from the handle at said outlets.

1,380,885. ELECTRIC REGULATION. JOHN L. CREVELING, New York, N. Y., assignor to Safety Car Heating and Lighting Company, a Corporation of New Jersey. Filed Jan. 15, 1912, Serial No. 671,166. Renewed Aug. 15, 1918. Serial No. 250,080. 24 Claims. (Cl. 171—313.)



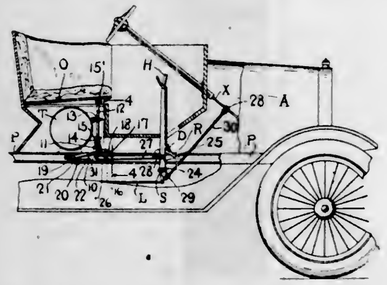
8. The combination with a generator, a storage battery, and a work circuit, of differential means responsive to battery-charging current and constantly operative for regulating the generator, and means operated by variations in voltage tending to hold the work circuit voltage constant and independently affect current regulation of the generator.

1,380,886. CONVEYING MEANS. EDWARD P. DANDRIDGE, Philadelphia, Pa. Filed Dec. 28, 1920. Serial No. 433,636. 3 Claims. (Cl. 186—1.)



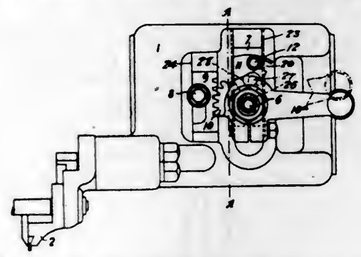
1. A device of the character described including an elongated supporting structure having side rails spaced apart: a track below the tops of said rails; a carriage on said track and having a portion movable between said side rails; and a tray secured to said carriage and having projecting portions directly above the tops of the side rails: substantially as described.

1,380,887. SAFETY AUTOMOBILE-LOCK. WALTER G. DAVIS, Miami, Fla. Filed June 16, 1919, Serial No. 304,669. Renewed Feb. 17, 1921. Serial No. 445,856. 2 Claims. (Cl. 180—82.)



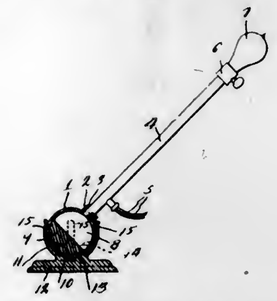
1. In combination with an automobile, its seat and spark control rod, of means to pivotally hold said seat, a plunger rod ending in a lug held to said seat, a spring to normally force said rod upward, a bell crank 17 pivotally held adjacent to said lug, a pivotally held rocker arm, a link connecting said rocker arm and crank, said bell crank connected to said plunger rod, a crank arm extending from said control rod, and a link 30 connecting said crank arm to said rocker arm.

1,380,888. WORK-FEED MECHANISM OF SEWING-MACHINES. MARK THOMAS DENNE, Rushden, England. Original application filed Sept. 22, 1914, Serial No. 863,025. Divided and this application filed Sept. 30, 1918. Serial No. 256,212. 2 Claims. (Cl. 112—48.)



1. In a sewing machine, the combination with a frame, of an awl-carrying feed-slide slidably mounted thereon and provided with a vertical slot, a rock-shaft journaled in the frame and having at its end a crank provided with a slot, a plate slidably mounted in the slot of the slide, a pin carried by said plate and carrying at its end a block slidably mounted in the slot of the crank arm, a lever pivotally mounted on said pin, and an adjustable fulcrum for the lever mounted on the feed-slide.

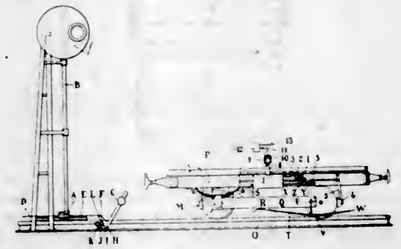
1,380,889. LIGHT-SUPPORT. CHARLES SHERWOOD FARRISS, De Land, Fla. Filed Mar. 24, 1919. Serial No. 284,740. 1 Claim. (Cl. 240—81.)



A light support comprising a base having a concave semi-spherical depression therein, integral spring arms spaced from each other and rising upwardly and extending outwardly and inwardly from the marginal edge of the semi-spherical depression in the base, a spherical member disposed within the depression and frictionally held by the spring arms, a light bracket carried by said spherical member, the spring arms extending upwardly beyond the horizontal center of the spherical member and being spaced apart a greater distance than the width of the light bracket, thereby allowing the light bracket to be horizontally positioned.

1,380,890. BLOCK-SIGNALING APPARATUS FOR RAILROADS. ERNEST FOURNIER and THEODULE TESTU, Nice, France. Filed Dec. 26, 1916. Serial No. 138,983. 3 Claims. (Cl. 246—185.)

1. In a railway safety appliance, the combination with the train pipe of a valve, the operation of which automatically causes the operation of the brakes, a bell-crank lever adapted to operate such valve and fulcrumed on a member supported at an unvarying distance above the track rail, one arm of such bell-crank lever being operatively connected to said valve and the other arm being in the form of a ramp having an extension in the form of a counter ramp, such ramp being adapted to be actuated by a movable tappet located by the side of the track, a cylinder in communication with the train pipe, a piston mounted in said cylinder and carrying a marking device, such piston being actuated on the operation of the aforesaid valve, and a recording drum coöperating with said marking device.



2. In a railway safety appliance, the combination with the train pipe of a valve, the operation of which automatically causes the operation of the brakes, a bell-crank lever adapted to operate such valve and fulcrumed on a member supported above the track rail, one arm of such bell-crank lever being operatively connected to said valve and the other arm being in the form of a ramp having an extension in the form of a counter ramp, such ramp being adapted to be actuated by a movable tappet located by the side of the track, a cylinder in communication with the train pipe, a piston mounted in said cylinder and carrying a marking device, such piston being actuated on the operation of the aforesaid valve, a recording drum coöperating with said marking device and a manually operated marking device also coöperating with said drum and designed to be disengaged from the drum during the actuation of the valve.

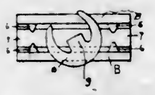
3. In a railway safety appliance, the combination with the train pipe of a valve, the operation of which automatically causes the operation of the brakes, and a bell-crank lever adapted to operate such valve and fulcrumed on a member supported by the axle boxes of the car and thus supported at a point located at an unvarying distance above the track rail, one arm of such bell-crank lever being pivotally connected to a rod which is operatively connected to said valve, the other arm of the said bell-crank lever being in the form of a ramp having an extension in the form of a counter ramp, a rod being fixed to the said ramp and slidably engaging with the member supported by the axle boxes of the car, such ramp being adapted to be actuated by a movable tappet located by the side of the track.

1,380,891. HOG-HOLDER. BERNARD C. GAINES, Burlington, Ky. Filed June 28, 1920. Serial No. 392,335. 1 Claim. (Cl. 119—153.)



In a hog holder, a snout block, a hollow handle having one end thereof fitted in the snout block, said handle having an offset portion, said handle having an opening formed in the wall thereof at a point in spaced relation with the offset portion, the opening being disposed laterally of the handle portion, a flexible band having one end thereof connnected to the snout block, the intermediate portion thereof adapted to pass through the hollow handle, the opposite end of said flexible band adapted to pass through the lateral opening, and a rod having connection with the flexible band for moving the band through the handle portion.

1,380,892. MEDAL-RIBBON BAR. WALTER F. GAUNT, Birmingham, England. Filed Feb. 10 1920. Serial No. 357,734. 1 Claim. (Cl. 40—1.5.)



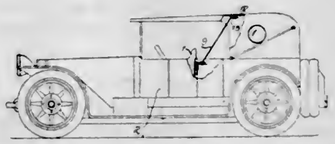
A combined medal ribbon bar and attachment means comprising a parallel-sided bar adapted to have a ribbon stretched thereon with the ends of the ribbon folded over the parallel sides thereof, a plate located at the back of said bar and adapted to clamp the ends of the ribbon thereon, the edges of the bar extending backwardly and clamping the said plate upon the bar, a second plate, backwardly projecting tongues upon the first plate and closed down over the edges of said second plate, and a backwardly projecting crescent-shaped attachment member upon said second plate.

1,380,893. AMUSEMENT DEVICE. CARL F. GEBERT, New York, N. Y. Filed Nov. 23, 1920. Serial No. 426,059. 6 Claims. (Cl. 208—33.)



1. A device of the character described, comprising a chassis, wheels supporting the chassis, a board fulcrumed between its ends and supported on the chassis, said board adapted to receive operators on its respective ends and operate as a seesaw, propelling means operated by the movement of the board, and steering means on the board adjacent the respective ends thereof.

1,380,894. ROLLING WINDSHIELD. WILLIAM H. GERHARD, Austin, Tex. Filed Mar. 23, 1920. Serial No. 368,143. 3 Claims. (Cl. 296—85.)

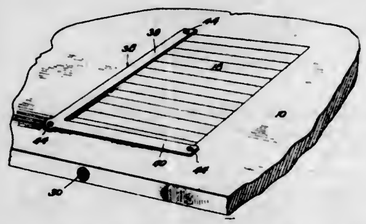


1. An attachment for automobiles, comprising a bracket adapted to be pivoted to the rear of the front seat of an automobile and carrying a spring actuated roller and a curtain wound upon said roller and carrying at one end securing means adapted to be detachably secured to the automobile top, said curtain carrying at said end a rod, and said bracket being provided with recesses for supporting said rod when the curtain is fully wound upon said roller.

1,380,895. WRITING-PAPER SUPPORT. FRANK GILMAN, Gervais, Oreg. Filed Sept. 3, 1920. Serial No. 407,897. 1 Claim. (Cl. 240—2.)

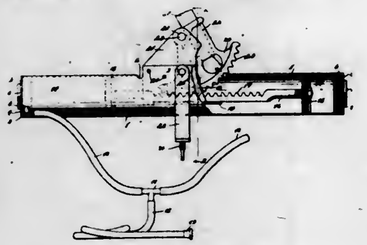
A device for the purpose set forth comprising a table top having a recess therein, one end wall of said recess having a socket therein and the top of the table top over-

hanging the said wall, an illuminator fitted in said socket and disposed below the overhanging portion, a transparent plate fitted in the table top and extending over the recess and provided with transverse marker lines, an inclined reflector disposed within the recess and extending upwardly from a point immediately below the illuminator to the opposite end of the recess at the top of the same, said reflector being provided with side walls bearing



against the sides of the recess and having an attaching flange at its higher end whereby it may be secured in place, a retainer comprising two arms disposed at a right angle and secured upon the table top and projecting over a side edge of the transparent plate to hold the same in place, each of said arms having an overhanging flange on its inner edge whereby to hold a paper sheet to the transparent plate.

1,380,896. PUMP. GEORGE F. GRAHAM, Cleveland, Ohio. Filed May 27, 1920. Serial No. 384,543. 4 Claims. (Cl. 230—27.)



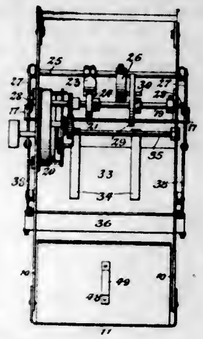
1. A double acting pump comprising a continuous tube having the opposite ends thereof closed to produce opposed cylinders, the metal at the central portion of such tube being split and bent outwardly to form a pair of spaced plates, a piston for each cylinder, a rod common to and connecting both pistons, and means supported from said plates for operating said rod.

1,380,897. SMOKING-PIPE CLEANER. ENOCH C. GUNNARSON, Brooklyn, N. Y. Filed Oct. 2, 1919. Serial No. 327,884. 1 Claim. (Cl. 131—13.)



In a device of the class set forth, a rigid annular chamber having at one side an opening bounded by two walls arranged at an angle to each other, one of the walls being approximately radial to the chamber and the other being approximately tangential thereto, said chamber constituting a housing for a flexible cleaner having a head adapted to be stopped by said radial wall.

1,380,898. CARD-SHUFFLER. CHARLES TRACY HALL, Buffalo, N. Y. Filed Jan. 22, 1920. Serial No. 353,380. 5 Claims. (Cl. 46—55.)



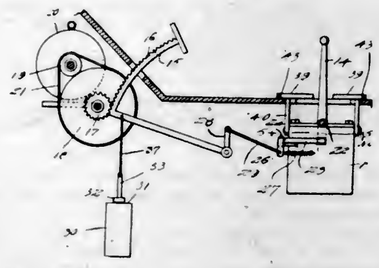
2. A card shuffler comprising a pocket having an inlet and an outlet, a sliding gate controlling said outlet, a rock shaft having a rock arm and a cam arm, a link connecting said rock arm and gate, and a rotary cam engaging said cam arm.

1,380,899. BOAT. CLEMMET HANSEN, Brooklyn, N. Y. Filed Feb. 5, 1920. Serial No. 356,509. 2 Claims. (Cl. 9—2.)



1. A boat having a complete hull and a fixed seat, auxiliary sides for said hull, hinges at one edge of each auxiliary side and hull whereby said sides may be folded compactly within the boat, an auxiliary movable seat adapted to extend between said auxiliary sides and retain said sides from swinging inwardly, and a crank for supporting said auxiliary seat, said crank having a portion extending longitudinally of the seat substantially the length thereof and a portion transverse to the seat near each end thereof, said crank being hingedly connected to both the fixed seat and the auxiliary seat, whereby the auxiliary seat may be swung upwardly between the auxiliary sides or may be swung downwardly and permit said sides to collapse inwardly.

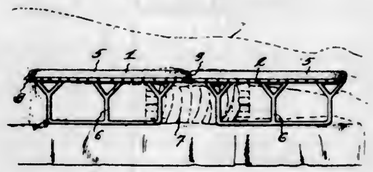
1,380,900. DEVICE FOR SYNCHRONIZING CLUTCH AND GEAR SETS ON MOTOR-VEHICLES. DONALD P. HARRIS, Jersey Shore, Pa. Filed Mar. 9, 1920. Serial No. 364,552. 6 Claims. (Cl. 74—83.)



1. A structure of the character described comprising a gear shifting lever, a clutch shifting treadle, movably

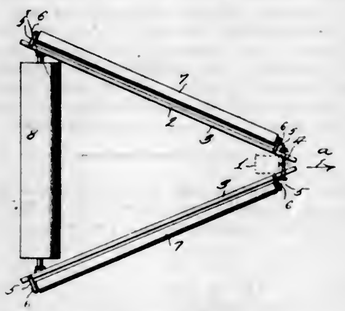
mounted locking dogs for the gear shifting lever having operative connection with the clutch operating treadle, a dash pot having a flexible connection with the treadle for retarding movement of the treadle in one direction, electrically operated means for imparting movement to the treadle in one direction, and an energizing circuit for the electrically operated means including switches positioned in operative relation to the gear shifting lever and moved to an open position to break the circuit when the lever is moved to shift the gears.

1,380,901. LEG PROTECTOR AND SUPPORT. LEXIA HARRIS, Provo, Utah. Filed Feb. 11, 1921. Serial No. 444,173. 3 Claims. (Cl. 155—169.)



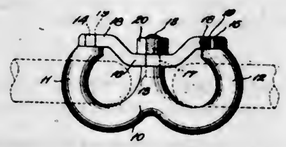
1. A leg protector for protecting an injured leg of a patient in a bed from the weight of an uninjured leg, said protector comprising a member disposed between the legs on which member the uninjured leg rests and downwardly extending members engaging the bed on each side of the leg for supporting the member disposed between the leg.

1,380,902. BOLL-WEEVIL DESTROYER. CIM L. HARRISON, Antlers, Okla. Filed Nov. 10, 1920. Serial No. 423,033. 3 Claims. (Cl. 43—132.)



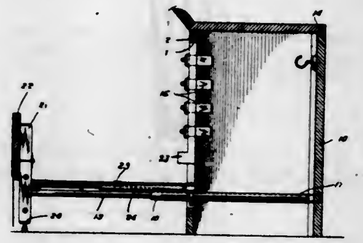
1. A boll weevil destroyer comprising a pair of spaced scraper members having their forward ends connected to a plow foot, said scraper members extending rearwardly and outwardly, rollers carried by said scraper members and disposed outwardly, and a transversely disposed roller extending between the rear ends of the scraper members.

1,380,903. CHAIN-CONNECTING LINK. WILLIAM AUSTIN HAIGHWOUT, Fortyfort, Pa. Filed July 21, 1920. Serial No. 398,005. 1 Claim. (Cl. 59—85.)



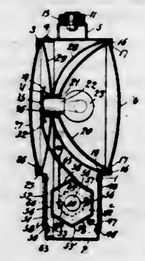
In a chain connecting link, a body portion, hook portions formed on said body portion, dowels projecting from said hook portions, a bridle post having a threaded end carried by said body portion, a bridle connecting the ends of said hook portions and adapted to fit over said bridle post said bridle being provided with openings to receive said dowels, and means adapted to fasten said bridle securely in place, comprising a nut adapted to engage the threaded ends of said bridle post, as described.

1,380,904. COMBINATION FURNITURE. SIDOR HAWRESCH, MIKE ROCK, and BILL DWORSKI, Montreal, Quebec, Canada. Filed Aug. 2, 1919. Serial No. 314,941. Renewed Mar. 24, 1921. Serial No. 455,331. 2 Claims. (Cl. 5—34.)



1. In a device of the class described, a cabinet, doors for closing the front of the cabinet, guides in the lower end of the cabinet, guide rails slidable on the guides, a foot piece connecting the outer ends of said guide rails, a section hinged to said foot piece and carrying a shelf adapted to rest against the lower edges of said doors, and a bed spring carried by said guides and rails.

1,380,905. COMBINED VEHICLE SIGNAL AND SEARCHLIGHT. ROBERT E. HINES, WILLIAM J. DELLERT, and JOSEPH A. STAEHLE, New York, N. Y. Filed Oct. 19, 1920. Serial No. 418,025. 6 Claims. (Cl. 240—7.)

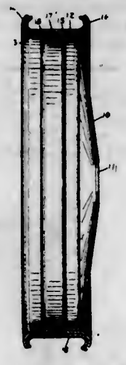


3. In a device of the character described, a housing, a searchlight mounted in said housing, a rotatable casing having signals thereon pivotally mounted in said housing, a lamp within said casing, means for rotating said casing to display the signals and to simultaneously energize said lamp and a switch electrically connected with said searchlight and said lamp for energizing said searchlight and adapted to permit said lamp to be energized independently of said searchlight upon rotation of said casing and to maintain the connection to and through said lamp.

1,380,906. PROCESS OF FORMING DISK WHEELS. ROSCOE C. HOFFMAN, Indianapolis, Ind. Filed June 21, 1920. Serial No. 390,609. 5 Claims. (Cl. 29—159.)

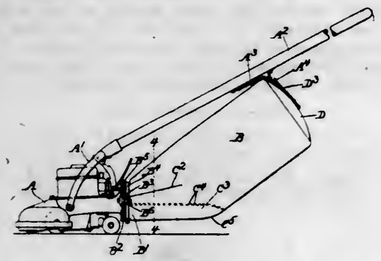
1. The process of forming a disk wheel composed of stamping out the disk portion of said wheel from sheet metal, stamping said disk portion into the shape of a flanged wheel having a shoulder thereon, mounting a complementary flanged rim portion having an enlarged

edge on said wheel so as to abut said shoulder and rolling the periphery of said disk radially outward so as to clamp



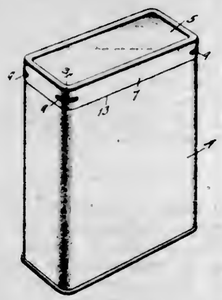
said enlarged edge between said rolled portion and shoulder for forming the rim of said wheel.

1,380,907. BAG FOR SUCTION-SWEEPERS. HOWARD EARL HOOVER, Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio, a Corporation of Ohio. Filed Apr. 27, 1918. Serial No. 231,245. 2 Claims. (Cl. 183—51.)



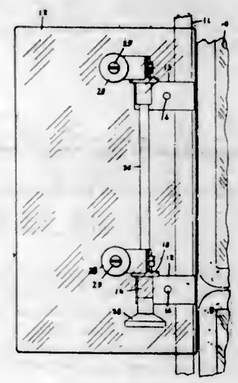
1. As a new article of manufacture, a dust bag for suction sweepers having a substantially straight or untapered upper margin and a tapered lower margin, the cross section of the bag near the mouth being much smaller than the cross section of the bag near the other end whereby the necessary expansion of air near the mouth is provided for and the solid materials carried by the air are deposited on the inner lower surface of the bag adjacent the mouth, and a patch lining for reinforcing the bag on such lower surface.

1,380,908. BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 31, 1915. Serial No. 42,898. 2 Claims. (Cl. 220—42.)



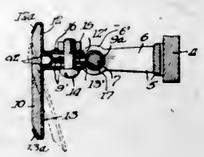
1. A box comprising a rectangular body formed with rounded corners, and a similarly shaped and rounded flanged slip cover, the body being necked-in for a slight distance substantially equal to the thickness of the cover flange; the cover flange having short inward depressions in its rounded corners, where the flange is of maximum stiffness, for abutting against the top edge of the body walls at the corners only.

1,380,909. WINDSHIELD-WING. BURTT J. HUBBARD, Kokomo, Ind. Filed Feb. 14, 1920. Serial No. 358,798. 3 Claims. (Cl. 296—84.)



1. In a wind shield the combination with a supporting member and a wing shield, of an elongated hinge rod, a plurality of brackets secured to said shield and supported upon said rod, and a plurality of brackets secured to said vehicle supporting member and supporting said rod, each of said brackets being provided with a plurality of radially extending and registering slots upon a bearing surface transversely of the hinged rod, the adjacent bracket surfaces including a tongue portion, and a single means associated with said rod to seat the bracket tongues and unseat the same in the registering radial slots.

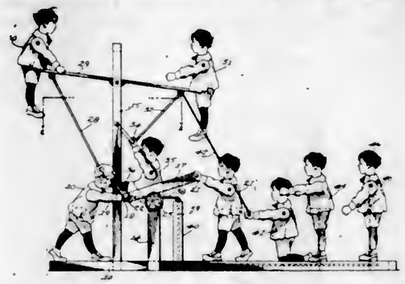
1,380,910. MIRROR FOR AUTOMOBILES. BURTT J. HUBBARD, Kokomo, Ind. Filed Sept. 7, 1920. Serial No. 408,543. 5 Claims. (Cl. 45—97.)



5. In a device of the class described a supporting bracket, a shaft carried thereby, an adjusting band engaging said shaft and having its end spaced apart, a mirror, laterally adjusting members engaging said mirror and overlying said ends and frictionally engaging said band adjacent said shaft, and means for tightening said laterally adjusting members on said band and said band on said shaft.

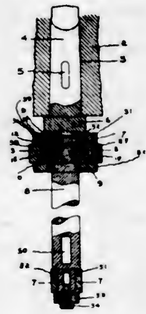
1,380,911. TOY. FRED HUBIC, Pelly, Saskatchewan, Canada. Filed July 31, 1920. Serial No. 400,463. 4 Claims. (Cl. 46—40.)

1. A toy of the character described comprising in combination, a base, a gallows at one end of said base, a see-saw near the top end of said gallows, a saw mounted upon a separate support near the foot of said gallows, two toy figures on said see-saw, and two figures operating said saw, means for operating said see-saw and said saw from a common operating handle, and a plurality of toy figures



in rear of said gallows adapted to be operated by the operation of said first named operating means to execute various movements.

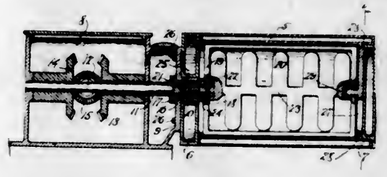
1,380,912. DRILL-PRESS. ALFRED JOSEPH JACQUES, Montreal, Quebec, Canada. Filed May 10, 1920. Serial No. 380,388. 3 Claims. (Cl. 279—71.)



1. In a drill press the combination with a tool having a notched shank, of a chuck for holding said tool, said chuck consisting of a body of circular cross-section and containing a socket at one end adapted to receive the notched tool shank, the wall of said socket having diametrically oppositely disposed openings therein, a jaw mounted in each of said openings and movable to and from engagement with the notches in said tool, means guiding said jaws in their movement to and from the tool, an annulus encircling said body and presenting a cam surface in operative engagement with said jaws, means retaining said annulus in position upon the body, said means consisting of a circumferential flange formed integrally with the body and in bearing relation with one side of said annulus and a ring encircling said body and bearing against the opposite side of said annulus, means detachably securing said ring upon the body, means for limiting the extent of movement of said annulus, the said means consisting of a pair of abutments upon said ring, and a pin upon the annulus and movable between the abutments, means for locking said annulus in position with the jaws in engagement with the tool, said last-mentioned means consisting of a pin slidably mounted in said ring with its outer end in bearing relation with the adjacent side of the annulus, a spring adapted to yieldingly maintain the pin in engagement with said annulus and a socket in the annulus adapted to accommodate the pin.

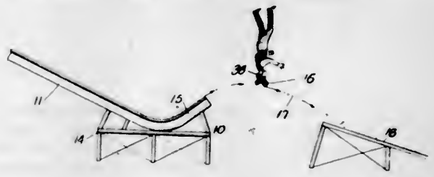
1,380,913. ICE-CREAM FREEZER. ALBERT T. LIGHT, New York, N. Y. Filed July 25, 1919. Serial No. 313,400. 4 Claims. (Cl. 259—105.)

1. An ice cream freezer comprising a freezing vessel provided at one end with a removable head, a beater supported on a bearing at the opposite end of such vessel, driving gearing connected with said supported end of the beater, and a bearing for the opposite outer end of the



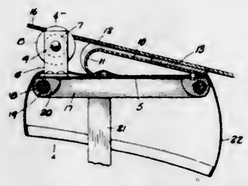
beater non-rotatably mounted in the vessel inside the removable head and supporting the beater independently of said head, whereby said beater may be operated with the head removed and while the vessel is open.

1,380,914. SKATE DEVICE. HILLARY C. LONG, New York, N. Y. Filed May 8, 1920. Serial No. 379,740. 11 Claims. (Cl. 46—70.)



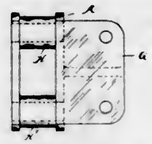
1. A device of the class described comprising a suitable frame member, two pairs of anti-friction rollers rotatably mounted in connection with the frame member, and means whereby said frame member is adapted to be connected with the head of a user.

1,380,915. RUNNER DEVICE. HILLARY C. LONG, New York, N. Y. Filed May 8, 1920. Serial No. 379,741. 7 Claims. (Cl. 46—70.)



1. A runner device for use upon a cable comprising a frame, a roller mounted in connection with said frame and adapted to operate upon said cable, and an elongated channel-shaped drag and brake device on said frame and adapted to coöperate with said cable.

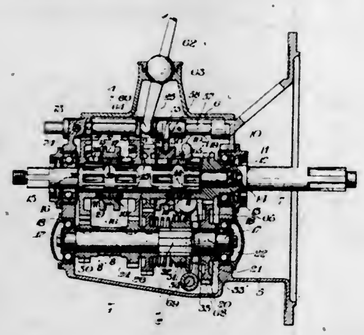
1,380,916. CHAIN CONSTRUCTION. JESSE E. MCBRIDE, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 29, 1917. Serial No. 194,063. 2 Claims. (Cl. 193—2.)



1. In a conveyer chain construction, an attachment link comprising a side, a laterally extending attachment flange

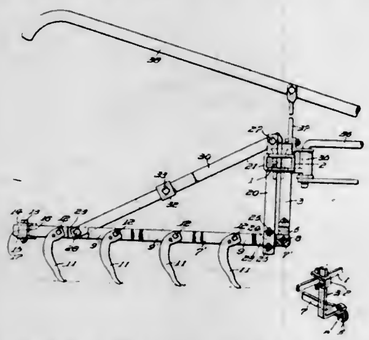
projecting from one edge of said side, and a brace for said attachment flange, said brace having a portion extending beyond the edge of said side opposite to that from which said attachment flange projects.

1,380,917. TRANSMISSION-CLUTCH. WILLIAM A. MCCARRELL, Milwaukee, Wis. Filed Apr. 25, 1919. Serial No. 292,644. 4 Claims. (Cl. 192—71.)



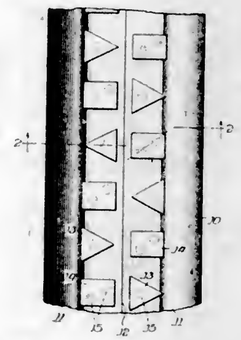
1. In a transmission mechanism, the combination of a shaft having radially disposed recesses therein, a member loosely mounted thereon and having a hub provided with radially disposed slots and radially disposed recesses in the ends of said slots, rollers disposed in said slots and having reduced end portions disposed in said recesses in said hub, and means for moving said rollers into said recesses to lock said member to said shaft.

1,380,918. CULTIVATOR. JOSEPH MADER, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Aug. 2, 1920. Serial No. 400,701. 8 Claims. (Cl. 97—42.)



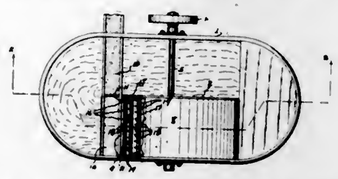
5. A cultivating implement comprising a transversely extending gang bar, a pair of vertically and longitudinally adjustable supports carried by said gang bar, a tool-carrying side bar vertically pivoted adjacent the lower extremity of each of said supports and extending rearwardly therefrom, each of said bars comprising a plurality of tool seats and diagonally disposed portions connecting said seats, means hingedly connecting the rearmost extremities of said tool-carrying bars, a vertically adjustable bar carried by said gang bar, a center bar disposed between said tool bars and extending between said vertically adjustable bar and said connecting means, means for securing said center bar adjacent its forward end to said vertically adjustable bar, a strut extending from adjacent the upper extremity of said vertically adjustable bar to said center bar and means for adjusting the length of said strut.

1,380,919. MATRIX FOR VULCANIZERS. FRED MAIER, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill., a Copartnership consisting of Herbert K. Wheelock, Frank A. Weller, and Walter R. Fontaine. Filed May 14, 1919. Serial No. 296,985. 7 Claims. (Cl. 18—44.)



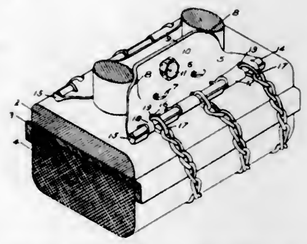
1. A matrix for vulcanizers, consisting of a main body portion having an anchoring surface thereon, and a configuration cast on to said body portion and engaging the said anchoring surface.

1,380,920. CONTINUOUS PULP-BEATER. SIDNEY MITCHELL, New York, N. Y. Filed Aug. 23, 1919. Serial No. 319,347. 5 Claims. (Cl. 92—23.)



1. In a device of the kind described, a tub; a beater roll therein; a hood inclosing said beater roll having a discharge opening therein, a grating comprised of closely spaced rods interposed between said discharge opening and said beater roll, and a discharge trough exteriorly arranged relative to said discharge opening to receive pulp discharged through said grating by centrifugal force from said beater roll.

1,380,921. CHAIN-ATTACHING DEVICE. FRANK P. MURPHEY and CLIFFORD E. BICKEL, Butler, Pa. Filed Apr. 3, 1920. Serial No. 371,012. 5 Claims. (Cl. 152—2.)

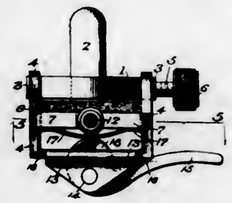


1. A chain-attaching device, comprising a plate having spoke-engaging portions, a plurality of bearings formed therein, bracing guards coöperating with certain of said bearings, and a chain-attaching rod in said bearings, substantially as described.

1,380,922. FILLER FOR CAVITIES IN TREES. JOSEPH J. NICHOLAS, Philadelphia, Pa., assignor to Albert F. W. Vick Company, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 30, 1920. Serial No. 369,878. 4 Claims. (Cl. 106—8.)

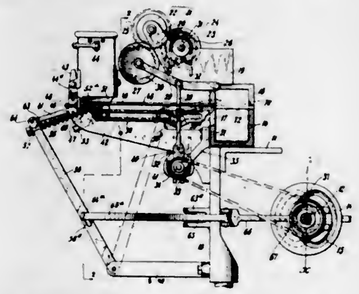
4. A composition for filling cavities in trees comprising finely divided wood and a cementitious binding therefor, the wood being present in predominating quantity.

1,380,923. FAUCET-CLAMP. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1920. Serial No. 363,992. 5 Claims. (Cl. 285—107.)



4. In a clamp of the character stated, a yoke attachable to a fluid discharge member, a frame depending from said yoke, a screw-like securing device mounted on said yoke and adapted to engage said member, an eccentric lever mounted on said frame, a movable bed on said frame, a gasket adapted to be supported on said bed and engage the mouth of said discharge member, the head of said lever being adapted to operate said bed to tighten said gasket in fluid tight position on said member, and a resilient member interposed between said bed and the head of said lever.

1,380,924. MACHINE FOR APPLYING LABELS, SEALS, AND THE LIKE. FRANK M. PETERS, New York, N. Y., and WARREN H. HUNGERFORD, Chicago, Ill.; said Hungerford assignor to said Peters. Filed Nov. 4, 1918. Serial No. 260,998. 7 Claims. (Cl. 216—55.)



1. A machine of the character described comprising package supporting means, a label magazine, means for transferring a label from said magazine, and means for rendering said label adhesive; said transfer means comprising a support, a foldable member, means for actuating said support to carry the label into engagement with one wall of a package, and means for actuating said foldable member to carry the remainder of said label into engagement with another wall of said package, substantially as specified.

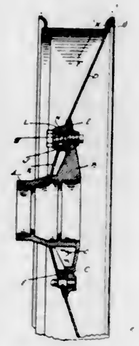
1,380,925. VEHICLE-WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 27, 1919. Serial No. 285,490. 6 Claims. (Cl. 301—63.)

1. In a vehicle wheel, the combination with a rim and hub, of a main dished disk extending between said rim and hub, an oppositely dished reinforcing disk spaced from the first mentioned disk at the hub and secured to the main disk at a point remote from the rim thereof, a spacer be-



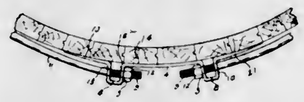
tween said disks having concentric inner and outer portions, and means for securing the disk to the hub passing through apertures in said disks intermediate the concentric portions of said spacer.

1,380,926. VEHICLE-WHEEL. ALDEN L. PUTNAM, DETROIT, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 27, 1919. Serial No. 285,500. 4 Claims. (Cl. 301—63.)
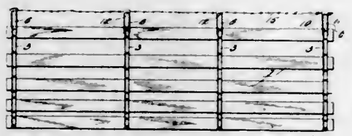


1. In a vehicle wheel, the combination with a rim and hub, of a dished disk secured to said rim and extending part way to the hub, an oppositely dished flange on the hub, and a clamping member for securing said disk to said flange having a portion extending inward to the hub forming an extension of the dish of the disk.

1,380,927. HOOP-COUPLING. WILLIAM ROSS, Cleveland, Ohio. Filed June 28, 1920. Serial No. 392,411. 15 Claims. (Cl. 217—95.)



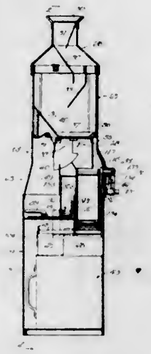
1. The combination with a circular wall and a hoop therefor, of a coupling comprising a forged metallic member, U-shaped shoulders bent therein, with opposing faces and holes in said shoulders through which the threaded ends of the hoop pass, said hoop ends being engaged by nuts which bear upon said shoulder faces.

1,380,928. BARB-WIRE ATTACHMENT FOR GATES. ALVIN V. ROWE, Galesburg, Ill. Filed Sept. 7, 1918. Serial No. 253,083. 4 Claims. (Cl. 256—11.)



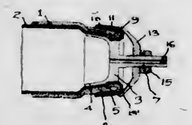
1. In a gate, in combination, a series of panels or boards, a plurality of pairs of uprights connecting said boards, bolts connecting said uprights to said boards, a plurality of barb-wire attachment members, connected to and upstanding from each pair of uprights, each member being of substantially inverted V shape and having alined openings therethrough near the arcuate ends and provided with longitudinal slots opening out of their lower ends and straddling certain of said bolts, a stringer of barb-wire, the end connected to the end attachments and passing through and between the legs of the intermediate attachments, and means passing through the openings in the intermediate attachments for holding the wire up in the arcuate ends of said attachments.

1,380,929. COLLECTING DEVICE. ALBERT RUEBSAMEN, Decatur, Ill. Filed Apr. 21, 1920. Serial No. 375,460. 7 Claims. (Cl. 232—7.)



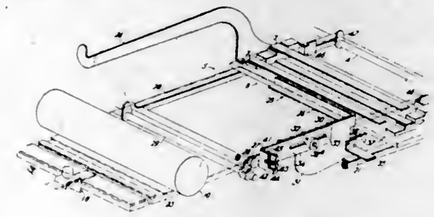
1. A device of the character described including in combination, a main casing having a hopper provided with an opening leading into an intermediate part; a dumping closure for said hopper; a receiving till, adapted to be inserted in said casing below the intermediate part, said till having a sliding cover; a lock to hold the cover closed; means in the casing movable to a position below the cover, while the cover is closed and in the path of the till to prevent removal thereof; a handle to move said means and means movable into the till opening, upon further movement of the handle, after the till cover has been moved to open position.

1,380,930. VULCANIZING AIR-BAG. GEORGE EMORY SAPP, Sacramento, Calif. Filed Oct. 19, 1920. Serial No. 417,000½. 5 Claims. (Cl. 18—45.)



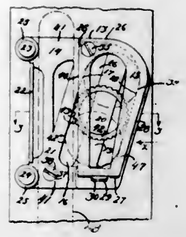
1. An air bag comprising, a plug; a ferrule encircling said plug; a cap; a separable tube within said bag body, the ends of said bag and said tube being compressible between said plug, ferrule and cap.

1,380,931. TYPEWRITING-MACHINE. JEREMIAH JOHN SHEEHY, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 27, 1920. Serial No. 376,905. 20 Claims. (Cl. 197—126.)



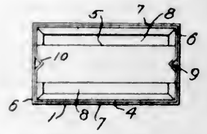
1. In a typewriting machine, the combination with a carriage and a revolnble platen therein, of a carbon-paper holder behind the platen adapted to move with the advancing carbons, a gage behind the platen adapted to hold a card, and connections whereby the advancing holder moves the gage out of its path.

1,380,932. ARTICLE-HOLDER. EPHRAIM G. SHREVE, Atlantic City, N. J. Filed Feb. 27, 1920. Serial No. 361,885. 3 Claims. (Cl. 24—244.)



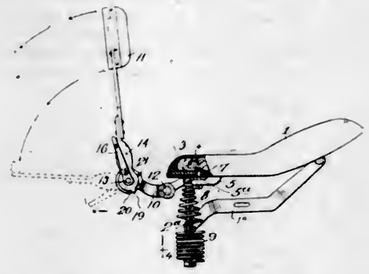
1. A holder of the character described comprising a frame providing a channel and including portions spaced apart at one side of said channel; a hollow securing ring open at opposite ends and positioned between said portions; and inclined guiding means for engagement with the peripheral surface of said securing ring for permitting the latter to move downwardly at an incline toward said channel without the inclusion of an axle in said hollow ring, said channel having portions opposite said securing ring whereby an article inserted between said channel portions and the ring will be secured within said channel due to the downward movement of said ring between its guiding means; substantially as described.

1,380,933. METHOD OF ICE-MAKING. ARTHUR D. SMITH, Brooklyn, N. Y., assignor to Frank H. Czeslik, Brooklyn, N. Y. Filed Apr. 1, 1920. Serial No. 370,484. 3 Claims. (Cl. 62—172.)



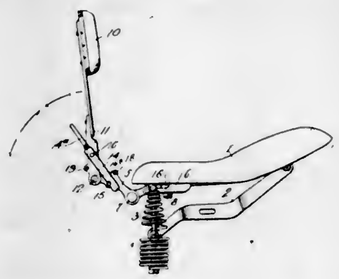
1. A process of making ice which consists in placing a body of water in a can, applying a freezing medium to the exterior of the can, removing the ice cake so formed, placing said cake in a second can having substantially the same configuration as the first can, and substantially the same dimensions, except that the second can is of greater thickness, so that spaces will be left between the opposite faces of the cake and the interior of the second can, filling said spaces with water, and applying a freezing medium to the exterior of said second can until all said water and said ice cake are frozen into a single mass.

1,380,934. BACK-REST. HORACE N. SPEER, Scarsdale, N. Y. Filed July 5, 1919. Serial No. 308,704. 6 Claims. (Cl. 208—138.)



1. The combination of a back rest, braces, a pivot connecting the rest and braces, the back rest and the braces having notches, a locking member having a projection adapted to enter said notches to lock the back rest in operative position on the braces, said pivot being provided with a projection and an operative handle, said locking member having a recess receiving said pivot and projection, whereby the projection of said member may be set in both of said notches to retain the back rest in operative position on the braces and may be withdrawn from one of the notches to permit the back rest to be lowered, and means to secure said braces to a seat.

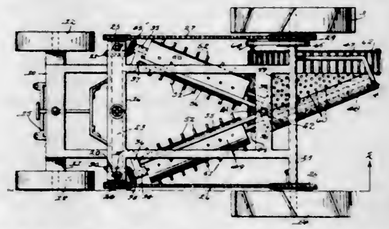
1,380,935. BACK-REST. HORACE N. SPEER, Scarsdale, N. Y. Filed July 5, 1919. Serial No. 308,705. 2 Claims. (Cl. 208—138.)



1. The combination of a back rest, braces pivotally connected thereto, means to secure the braces to a seat, a rod carried by the back rest, and latches secured to the rod, said braces having projections, the latches having notches coöperative with said projections to retain the back rest in elevated position, and a spring coöperative with said rod and with the back rest to cause the notches of the latches to remain in coöperation with said projections when the back rest is elevated.

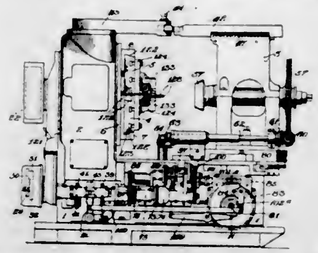
1,380,936. STONE DIGGING AND COLLECTING MACHINE. GEORGE STEFFAN, New York, N. Y. Filed July 31, 1920. Serial No. 400,394. 4 Claims. (Cl. 55—17.)

1. A machine of the character described comprising a wheeled truck, converging rollers adapted to rotate during the travel of the truck over the ground, stone digging means on said rollers, a stone collecting platform in rear of said truck, a conveyer and a means for brushing the



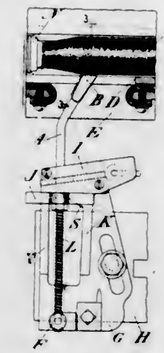
stones dug by said digging means onto said conveyer after they have been freed of the adhering soil.

1,380,937. GEAR-CUTTING MACHINE. ARTHUR L. STEWART, EDWARD W. BULLOCK, and SCHUYLER H. EARL, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,014. 23 Claims. (Cl. 90—9.)



1. In a gear cutting machine, the combination with a blank carrier and cutter support, one movable toward and from the other, of a reciprocating cutter on the cutter support, and bracing members secured to the blank carrier and cutter support and connected with each other so as to permit relative movement, said bracing members being located above the blank and cutter.

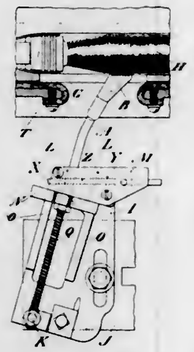
1,380,938. FEELER MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 31, 1919. Serial No. 300,953. 1 Claim. (Cl. 139—85.)



A feeler mechanism for looms having a side slipping feeler arm with its rear portion laterally inclined with respect to its forward portion, said rear portion having teeth at its rear end, in combination with guides for the forward portion of the feeler arm at the front and rear thereof, both guides being forward of the laterally in-

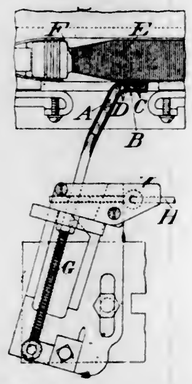
clined rear tip portion and disposed one directly behind the other so that the forward portion of the feeler arm is normally maintained in such a position that a vertical plane extending lengthwise along its middle is at right angles to the axis on which the lay swings and to the longitudinal axis of the bobbin and shuttle, said rear guide being stationary and laterally elongated to permit the side slip of the feeler arm when the bobbin is bared at the place where it contacts with the feeler teeth.

1,380,939. FEELER MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 26, 1919. Serial No. 347,322. 7 Claims. (Cl. 139—85.)



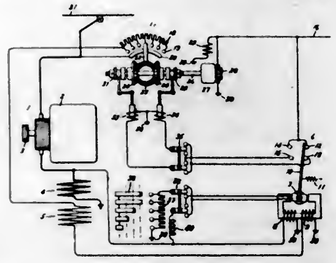
1. A feeler arm having a plurality of recesses near its rear end and a longitudinally extending groove connecting said recesses and terminating at the rear end of the arm, said groove increasing in depth and width from the foremost recess to the rear end of the arm, in combination with a feeler tip consisting of resilient metal bent to form two legs straddling the rear end of the feeler arm and resiliently gripping the upper and lower faces thereof, one of said legs having on its inner face a plurality of inwardly projecting studs corresponding in position to the recesses in the feeler arm and interlocking therewith, said studs being adapted to slide lengthwise along said groove in the feeler arm in attaching the tip to the arm.

1,380,940. WEFT FEELER-TIP FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 7, 1920. Serial No. 401,943. 4 Claims. (Cl. 139—85.)



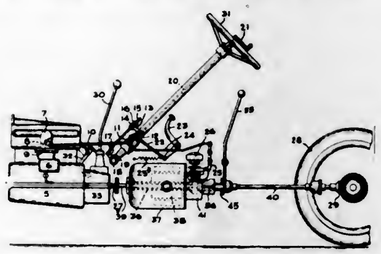
1. A feeler having its weft contacting end convex toward the bobbin both vertically and horizontally, said weft contacting end having a plurality of integral teeth arranged in a horizontally extending curve, said teeth being constituted by slits in the weft contacting end of the feeler extending diagonally from the top to the bottom of the feeler whereby teeth are formed integral with the feeler and having blunt rear and square edges and extending diagonally from the top to the bottom of the feeler.

1,380,941. ELECTRICAL SYSTEM OF POWER TRANSMISSION AND REGENERATIVE BRAKING. CLINTON J. AXTELL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 4, 1918. Serial No. 215,280. 9 Claims. (Cl. 172—179.)



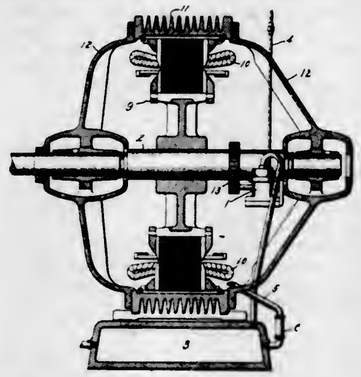
2. The combination with a dynamo-electric machine provided with a field winding, of means for controlling the excitation of said field winding to maintain the torque developed by said dynamo-electric machine approximately constant, said means comprising a torque relay connected and designed to develop a torque approximately proportional to the torque developed by said dynamo-electric machine, and means for varying the torque of the relay to vary the value of torque of the dynamo electric machine which is to be maintained approximately constant.

1,380,942. MOBILE GENERATOR OUTFIT. HENRY S. BALDWIN, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 2, 1918. Serial No. 264,969. 4 Claims. (Cl. 290—1.)



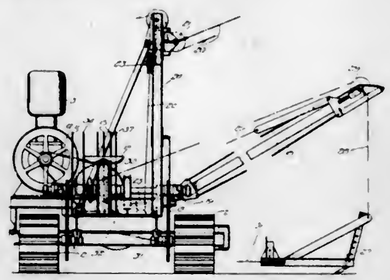
4. In combination, an engine, vehicle wheels, a transmission shaft comprising a forward section and a rear section for transmitting power from the engine to said wheels, said rear section having an enlarged counterbored end in which the adjacent end of said forward section is journaled, clutch teeth on said enlarged end, a generator the armature of which is provided with a quill shaft through which said forward shaft section extends, the same terminating just beyond the end of the quill shaft, a clutch member splined on such end of said forward shaft section, a part on the end of said quill shaft having clutch teeth and gear teeth thereon, said clutch member when in one position engaging said first named clutch teeth and when in another position engaging said second named clutch teeth, a speed governor driven by said gear teeth, a throttle valve for the engine, and means connecting said governor to said throttle valve.

1,380,943. SUBMERSIBLE MOTOR. WILLIAM BAUM, Milwaukee, Wis., assignor to General Electric Company, a Corporation of New York. Filed Sept. 27, 1917. Serial No. 193,576. 6 Claims. (Cl. 172—36.)



1. The combination with a submersible motor having a shaft and provided with an inclosing casing, of means for preventing water from entering said motor when said motor is submerged comprising an air-pump, gearing connecting the pump to the motor shaft, a tank receiving compressed-air from said pump and arranged to discharge compressed-air into the interior of the motor, and adapted to maintain therein the proper pressure to counterbalance the water pressure outside said motor, and a suction pipe extending from the pump to the outer atmosphere.

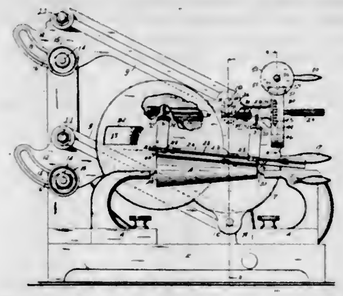
1,380,944. BACK-FILLER. HANS J. BENTSON, Winthrop Harbor, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Nov. 2, 1918. Serial No. 260,827. 5 Claims. (Cl. 37—39.)



1. In an excavator, a body frame, a boom projecting laterally from one side thereof, an excavating device supported by said boom, means on the body to operate and control said device, traction means at the outer side of the body, traction means disposed at the inner side of the body and below the boom, and power-transmitting connections for driving said traction means independently of each other, either backward or forward, thereby to swing the boom laterally in either direction.

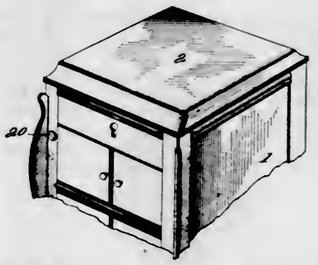
1,380,945. PRECISION-GAGE. LEVI BROWN, Milwaukee, Wis., assignor of one-half to Lloyd McElwain, Walworth, Wis. Filed June 21, 1919. Serial No. 305,835. 16 Claims. (Cl. 33—174.)

1. A precision gage including the combination of a gage bar, supported for oscillation about a transverse axis, and provided with projections adapted for contact with the work at a plurality of points, a manually rotatable shaft adapted to oscillate the bar about the said axis, and scale members operatively associated with said shaft and



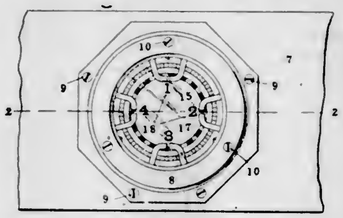
adapted to indicate the inclination of the bar from a normal horizontal position.

1,380,946. DOME-SUPPORT. NIXON L. CARTER, Newport News, Va. Filed Feb. 1, 1921. Serial No. 441,583. 4 Claims. (Cl. 217—60.)



1. In a lid support and lock, the combination with a receptacle and its cover, of a link pivotally connected to the cover and having notches in its rear edge, a plate having a guide for said link, a spring pressed rod extending from the front of the receptacle and having a hooked end extending through the plate and adapted to enter the notches in the link.

1,380,947. SPARK-INTENSIFIER. ARTHUR B. CHRISTOPHER, St. Louis, Mo. Filed Oct. 11, 1920. Serial No. 416,171. 5 Claims. (Cl. 175—183.)

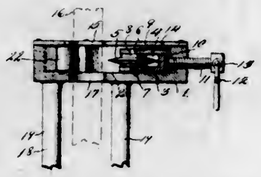


1. In a device of the class described, the combination with a receptacle, of an auxiliary spark gap situated therein, a reflector arranged behind said spark gap, and a second reflector arranged in front of said gap and having its surface angularly disposed with respect to said first named reflector.

1,380,948. PIPE-CUTTER. JOHN EDWARD DONNELLY, Branford, and ANTHONY JOSEPH GRIESER, New Haven, Conn. Filed Mar. 19, 1920. Serial No. 367,096. 1 Claim. (Cl. 81—191.)

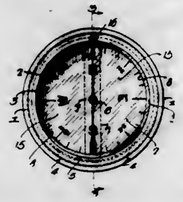
A pipe and rod cutter comprising a cutter head having a rectangular shaped chamber therein, a removable cover

for said chamber, pipe receiving apertures extending through the cutter head and its cover, rollers disposed in the chamber of the cutter head and having bearings in the bottom of the chamber and in the cover and adapted to engage a pipe during a cutting operation, a slidable rectangular shaped cutter carrier disposed in the chamber,



a cutter wheel pivoted in a chamber of the carrier, said chamber being provided with a detachable cover in which the cutter has a bearing, a threaded adjusting screw threaded through the end wall of the cutter head and pivoted to the cutter carrier, said adjusting screw being radially disposed in relation to the cutter and in the same plane as the cutter.

1,380,949. MAGNETIC COMPASS. CARL W. EISENMANN, Nebraska City, Nebr. Filed Apr. 19, 1920. Serial No. 374,909. 5 Claims. (Cl. 33—222.)



1. The combination in a magnetic compass of an opaque casing having a side window opening; a transparent closure for said opening; a magnetic element rotatably mounted in the casing; with indicating elements projecting at right angles to the plane of and movable with said magnetic element, said indicating elements being angularly adjustable relative to the magnetic element and separably visible through the closure of the window opening.

1,380,950. PAINTING DEVICE. FRANKLIN E. FORNWALT, Harrisburg, Pa. Filed Feb. 9, 1920. Serial No. 357,143. 5 Claims. (Cl. 251—115.)

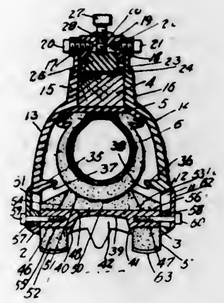


1. In a painting apparatus the combination of a casing interiorly threaded at its lower end, an outlet formed in its upper end, a conduit arranged in the outlet, a tube having orifices arranged therein within casing and having a closed end adapted to close said outlet, a nut threaded on the lower interior threads of the casing and secured to and movable with the casing, a gland nut secured to the first named nut and slidably arranged on the tube, jam-nuts on the tube spaced below the last named nut, and a handle having a portion disposed between the jam-nuts and the gland nut for movement of the gland nut, first named nut and casing relative to the tube.

1,380,951. PROCESS FOR THE PREPARATION OF HYDRIODIC ACID. GEORGE B. FRANKFORTER, U. S. Army. Filed June 4, 1919. Serial No. 301,802. 17 Claims. (Cl. 23—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

14. A process of making hydriodic acid by placing an unsaturated oxy-compound in a receptacle, adding iodin, removing the impurities from the resulting gas and collecting the gas given off.

1,380,952. TRACTION-TREAD FOR PNEUMATIC TIRES. JOHN JOSEPH GILLIVN, Oshawa, Ontario, Canada. Filed May 3, 1920. Serial No. 378,642. 6 Claims. (Cl. 152—16.)

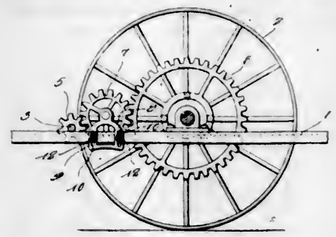


6. A traction tread for pneumatic tires, comprising a carrier member provided with arms extending at each side of the pneumatic tire and having slots therein, tread sections arranged end to end annularly around the tire and between the arms of the carrier, each comprising a tread plate, an inner tread piece carried by the tread plate in contact with the tread of the tire, and outer tread pieces carried by the tread plate at each side of the inner tread piece, blocks slidable within the slots of the carrier arms and screws extending through the block into the tread plate, a cap swung between the inner arms of the carrier, a plate adapted to bear against the inner periphery of the felly and having a projection extending into the cap member and having guiding recesses into which the arms of the carrier slidably fit, and a setscrew extending through the cap member against the projection of the plate.

1,380,953. DRIVING CONNECTION. JOSEPH P. HAGAMAN, Lancaster, Wash. Filed Mar. 1, 1920. Serial No. 362,486. 1 Claim. (Cl. 74—7.)

In a driving connection, the combination of a frame portion, a ground drive wheel, a spur gear fixed with respect to said wheel, a speeding shaft bearing a spur pinion alined with and spaced from said gear wheel, an idler spur gear of greater diameter than the width of said space imposed between and intermeshed with the gear and pinion, an inverted U-shaped bracket carrying and containing

said idler gear and having a corrugated face and also having upright slots, corrugated filler means, and bolts ex-



tending through said slots and the frame portion and adjustably fixing the bracket to said frame portion

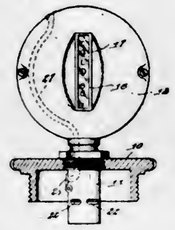
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1,380,954. MEANS FOR CONTROLLING THE DIRECTION OF CUTTING DRILL-HOLES IN ROCK. OLIVER HALL and VICTOR PUTNAM ROW, Coniston, Ontario, Canada. Filed June 1, 1920. Serial No. 385,703. 7 Claims. (Cl. 255—1.)



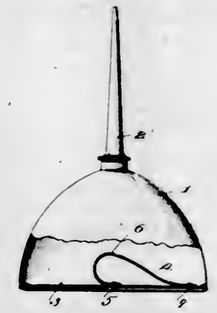
1. Means for controlling the direction of cutting drill-holes in rock, comprising, a longitudinally tapered member adapted to be inserted into the drill-hole with the thin end uppermost, and means adapted to be inserted into and definitely located in the drill hole for locating and securing said tapered member in a definite position in relation to the direction of the drill-hole.

1,380,955. MOTOR-METER. BENJAMIN HARRIS, East Akron, Ohio, assignor of twenty-four per cent. to Michael Lurie and twenty-five per cent. to Edward Lurie. Filed Feb. 2, 1920. Serial No. 355,613. 3 Claims. (Cl. 73—52.)



1. A motor meter comprising a casing having a sight opening, a rotatable element arranged within the casing and having indicia thereon, means for rotating said element, and a valve controlled exhaust port normally closed by said valve and adapted to be uncovered at a predetermined temperature, and means for automatically operating said valve to uncover said port.

1,380,956. OIL-CAN. FREDERICK A. HASSE and RICHARD MORRIS, Benton Harbor, Mich. Filed Oct. 20, 1920. Serial No. 418,151. 1 Claim. (Cl. 221—34.)



In an oil can comprising a container having a spring bottom and side walls, and a discharge spout therefor, a spring having one end fixedly secured to the spring bottom at about its center, said spring having an upwardly extending looped portion, and its other end fixedly secured to the spring bottom adjacent the edge of such bottom.

1,380,957. HEAD-FRAME FOR SUPPORTING EYE-GLASSES. FRANK W. HAVILAND, New York, N. Y. Filed May 18, 1920. Serial No. 382,441. 9 Claims. (Cl. 88—51.)



1. In a device for supporting eye glasses, a bridge, a head frame, means for connecting said head frame to a person's ears, and means for securing a lens to said bridge and said frame, said head frame being adapted to support the weight of the eye glasses.

1,380,958. FOLDING BED. JOSEPH I. HIGGINS, New York, N. Y. Filed May 21, 1920. Serial No. 383,202. 3 Claims. (Cl. 5—18.)

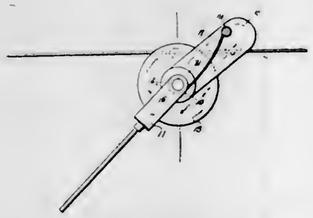
1. A folding bed comprising, a spring frame, having front and rear side bars, stationary leg members, one side bar being pivotally connected to the stationary leg members, a shelf rigidly connected to the free edge of the bed

adjacent and parallel to the other side bar, brackets fixed to the shelf, said brackets including arms terminating in semi-circular toothed gripping portions, curved clamping members pivoted to the arms and coöperating with the



gripping portions thereof to encircle the last mentioned side bars, extensions on the brackets having openings therein, legs slidable through the openings, and means carried by each end of the legs for limiting their sliding movement.

1,380,959. TROLLEY-WHEEL ATTACHMENT. WILLIAM T. HILL, Baltimore, Md. Filed June 28, 1919. Serial No. 307,263. 1 Claim. (Cl. 191—73.)



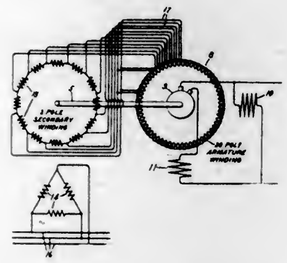
A trolley wheel attachment comprising in combination with a yoke, and an axle thereon, of a pair of elongated members mounted upon the axle at the opposite sides of the wheel and extended beyond the periphery thereof, a stud projecting laterally from the outer side of each member, disks loosely mounted upon the axle and arranged at opposite sides of said elongated members, a coiled spring surrounding said axle at each side of the wheel, said springs exerting pressure against said disks whereby said elongated members are frictionally maintained in position upon the axle, and the final convolution of each spring being extended to provide a resilient arm which is connected with the adjacent stud, whereby said elongated members are yieldably held above the wheel and closely associated for the purpose specified.

1,380,960. RUBBER THIMBLE. VERONICA HIMENIA, Klein, Mont. Filed Mar. 23, 1920. Serial No. 368,132. 1 Claim. (Cl. 223—51.)



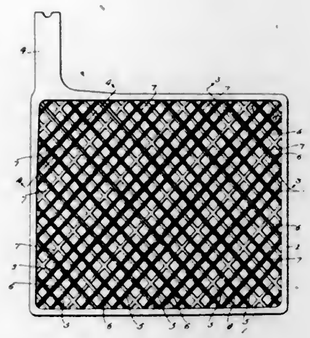
A rubber crochet thimble having a thin flexible tip and thickened side walls with a laterally extending handle on the outer face of one of said side walls intermediate the ends thereof to facilitate removal of the thimble from the finger.

1,380,961. ELECTRICITY TRANSFORMING AND CONVERTING APPARATUS. HENRY M. HOBART, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 4, 1917. Serial No. 189,505. 2 Claims. (Cl. 171—123.)



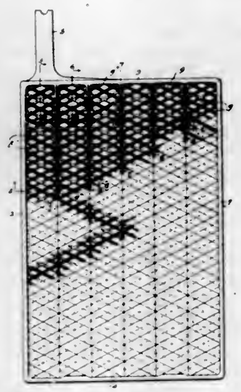
1. An electricity transforming and converting apparatus comprising in combination an induction machine having a stationary polyphase primary winding and a rotatable polyphase secondary winding of a relatively small number of poles so that said induction machine functions substantially as a pure transformer, a synchronous apparatus including a rotatable armature and commutator for converting polyphase alternating current energy into direct current energy and having a relatively large number of poles so that said synchronous apparatus functions substantially as a pure synchronous converter, means for mechanically connecting said armature of said synchronous apparatus and said secondary winding of said induction machine, and means electrically connecting the polyphase secondary winding of said induction machine to the armature winding of said synchronous apparatus in such a manner that said secondary winding is rotated in a direction opposite to the direction of rotation of the magnetic field produced by said primary winding, thereby causing the armature current of said synchronous apparatus to have a component in a direction to neutralize the armature reaction of said synchronous apparatus and improve its commutating characteristics.

1,380,962. STORAGE-BATTERY GRID. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 8, 1918. Serial No. 243,748. 11 Claims. (Cl. 204—29.)



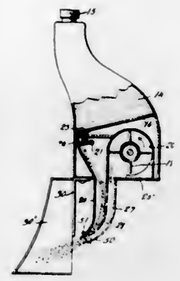
1. A grid having a marginal frame; with two sets of ribs lying respectively in parallel planes and inclosed by said frame, each of said sets consisting of a number of groups of parallel ribs of which adjacent groups are separated by spaces greater than the distance between the ribs comprising them and are intersected by a series of ribs extending in lines running at other than at an angle of 90° to the elements of the marginal frame.

1,380,963. STORAGE-BATTERY GRID. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 22, 1919. Serial No. 339,854. 9 Claims. (Cl. 204—29.)



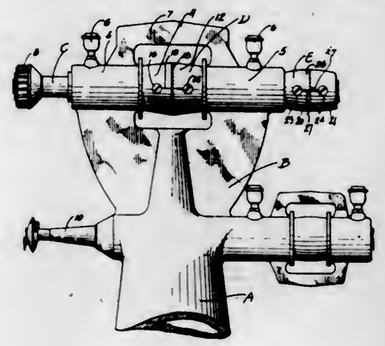
1. A battery grid consisting of a substantially rectangular marginal frame having side top and bottom members; a terminal lug projecting from the top frame member; substantially parallel ribs connecting the top and bottom members and defining panels; and two series of auxiliary ribs in each of the panels, arranged in parallel planes with a chamber between them, the top frame member being longitudinally split in the form of two substantially parallel parts connected at their ends, and the bottom frame member being solid.

1,380,964. ANTISKID DEVICE. NEVIL MONROE HOPKINS, Washington, D. C. Filed Feb. 7, 1920. Serial No. 356,972. 21 Claims. (Cl. 291—31.)



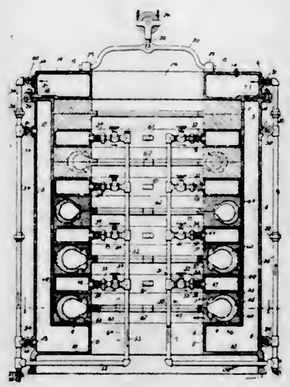
1. In an anti-skid device, the combination of a casing containing a reservoir for abrasive material, and a fan, a feed pipe leading from the reservoir out of the casing, an air-outlet pipe for the fan positioned to direct the air against the material passing out of the feed tube, in the direction of flow.

1,380,965. BALANCE PULLEY AND COLLAR. CHARLES F. HOWES, Brockton, Mass. Filed Dec. 6, 1919. Serial No. 342,876. 14 Claims. (Cl. 74—6.)



1. A device for balancing shafts comprising a pair of weighted annular members, and means for adjusting said members.

1,380,966. TIRE-VULCANIZING APPARATUS. ARGE LEO JACOBSON, New York, N. Y., assignor to Leo A. Kearney, New York, N. Y. Filed July 19, 1919, Serial No. 312,029. Renewed Dec. 20, 1920. Serial No. 432,137. 11 Claims. (Cl. 18—17.)

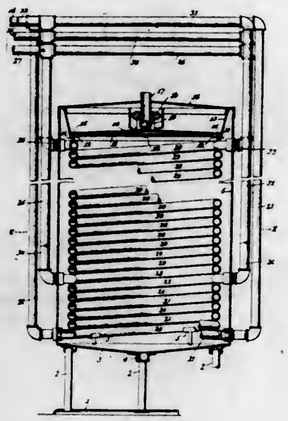


1. In a device of the character described, the combination of a steam jacketed receptacle, a plurality of molds therein, and a heating means interposed between adjacent molds.

1,380,967. LIQUID HEATING OR COOLING APPARATUS. AAGE JENSEN, Portland, Oreg., assignor to Jensen Creamery Machinery Company, Inc., a Corporation of New York. Filed Jan. 22, 1920. Serial No. 353,281. 5 Claims. (Cl. 257—180.)

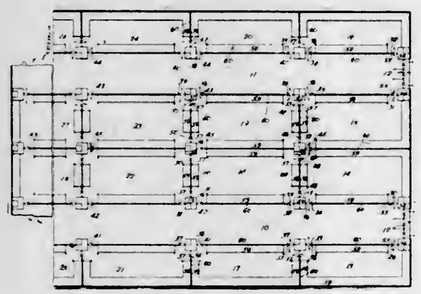
3. An apparatus of the character described, comprising helical coils divided horizontally into independent sections, each of said sections being subdivided into sepa-

rate sets of coils alternately disposed, means for supplying heating or cooling fluids separately to said sections and



sets, and means for feeding the liquid to be treated upon the topmost coil.

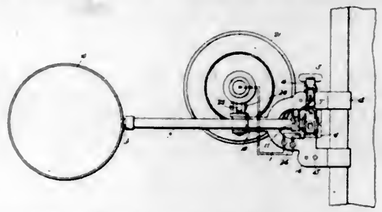
1,380,968. SELF-SERVICE STORE. ALVA W. B. JOHNSON, Birmingham, Ala. Filed Apr. 8, 1918. Serial No. 227,280. 10 Claims. (Cl. 211—8.)



2. In an apparatus for vending merchandise, two compartments disposed end to end, the compartments having side entrances at their forward ends, and side exits at their rear ends, the exit at the rear of the forward compartment being disposed at the entrance to the rear compartment, and there being another exit at the rear of the forward compartment into the rear compartment disposed at the junction of the exit of the forward compartment and the entrance of the rear compartment, and watcher stations at the entrance of the forward compartment, at the exit of the rear compartment and at the junction of the exit of the forward compartment, the entrance of the rear compartment and the exit from the forward to the rear compartment.

1,380,969. SIGNAL. AXEL W. JOHNSON, Portland, Oreg. Filed Aug. 16, 1919. Serial No. 317,938. 2 Claims. (Cl. 116—43.)

1. A bracket for supporting a spot light and directional signal of an automobile comprising adjustable clamping means for clamping the same to the wind shield frame, horizontally arranged bearings arranged on one face of the bracket and adapted to receive the supporting shaft of the signal, an extension at the end of the bracket having



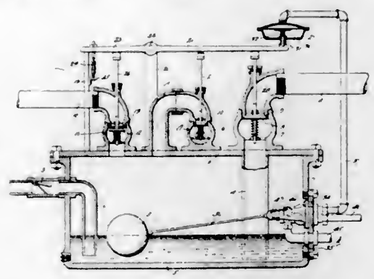
horizontally arranged bearings at one face of said shaft and a vertically arranged bearing at its end for receiving the supporting post of the spot light.

1,380,970. DEVICE FOR MIXING LIQUIDS. HUBERT MEREDITH-JONES, New York, N. Y., assignor to The Air-O-Mix Corporation, New York, N. Y., a Corporation of New York. Filed June 26, 1919. Serial No. 306,951. 3 Claims. (Cl. 261—87.)



1. In combination in a mixer a rotary tube, radiating tubes at the lower end thereof, and communicating with the interim of the rotary tube for receiving air therefrom, said radiating tubes delivering air from their outer ends into the material to be mixed, and wires extending close to the ends of the tubes to divide up the material to receive the air.

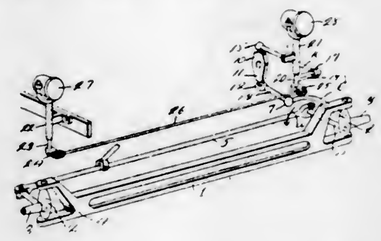
1,380,971. TRAP. HENRY W. JUSTUS, Napanoch, N. Y. Filed Mar. 15, 1920. Serial No. 365,983. 8 Claims. (Cl. 137—101.)



1. A trap of the character stated, comprising a casing, a water inlet pipe discharging into the casing, a check valve in said pipe, a water outlet pipe having its entrance end located adjacent the bottom of the casing and extending through the top of the casing, a valve normally closing the passage through said outlet pipe, a steam inlet pipe communicating with the casing, a normally

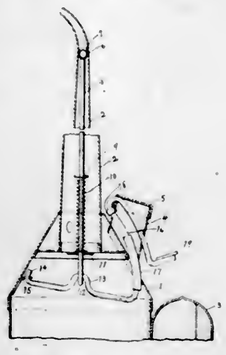
closed valve in said steam inlet pipe, a diaphragm casing, a diaphragm in said casing, means operatively connecting said diaphragm with the valves in the outlet pipe and the steam inlet pipe, means controlling the flow of fluid to the diaphragm chamber, and a float valve in the casing controlling the operation of said last-mentioned means.

1,380,972. DIRIGIBLE VEHICLE-LIGHT. JOHN F. KELLER, Pearl, Ill. Filed Aug. 5, 1920. Serial No. 401,550. 1 Claim. (Cl. 240—62.)



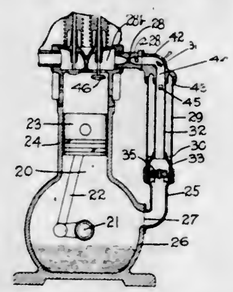
A dirigible headlight mechanism for automobiles comprising a vertically pivoted lamp bracket, the lower end of said bracket having a transversely disposed outwardly extending arm, a lever pivoted to the side of the automobile, said lever being pivoted at its central point forming an upwardly and downwardly extending arm, a connecting link between the upwardly extending arm of the lever and the outer end of the bracket arm of the lamp, the pivotal points of said connecting link being formed by universal joints, a rearwardly and inwardly extending arm carried by the axle spindle of the automobile, a connecting link universally connected to and extending rearwardly from said rearwardly and inwardly extending arm, the rear end of said last named connecting link being connected to the downwardly extending arm of the pivoted lever by means of a universal joint.

1,380,973. VALVE MECHANISM FOR OIL-CANS. CLARENCE HOLMES KELSEA, Belmont, Mass. Filed Sept. 30, 1918. Serial No. 256,339. 1 Claim. (Cl. 221—46.)



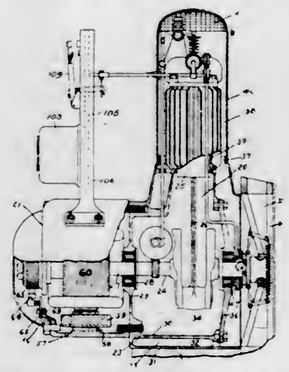
The combination with an oil can provided with a substantially long nozzle, of a valve located in said nozzle to close the same, a rod extended into said nozzle and coöperating with said valve to close the same and having its lower end extended into said can, a lever pivoted within the can at one side of said nozle and extended across said can and provided on the opposite side of said nozzle with an upwardly extended curved portion whose center is the pivot of said lever, a curved guide through which said curved portion is movable, means for connecting the valve closing rod with the said lever between the curved portion thereof and the pivot therefor to effect downward movement of the valve in said nozzle by downward movement of said curved portion, and a spring to move said rod upwardly to close said valve.

1,380,974. INTERNAL-COMBUSTION ENGINE. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 5, 1917. Serial No. 146,825. 23 Claims. (Cl. 123—119.)



1. In a device of the character described, the combination with a four cycle engine of the type wherein the flow through the engine intake is intermittent provided with a combustion chamber and a crank case chamber and having a piston operable relative to said chambers; of a breather tube connected to said engine and having provisions for permitting the gases displaced from the crank case chamber by the suction and explosion strokes of the piston to pass into said breather tube and to then pass from said breather tube to the combustion chamber on the suction stroke of the piston, said breather tube being provided with an opening to the atmosphere, whereby air will be taken through said breather tube to the combustion chamber along with said gases during the suction stroke of the piston, said opening being of such remoteness from the crank case chamber as to provide a storage space within said breather tube of sufficient capacity to retain, without escape to the atmosphere, all the gases received from said crank case chamber between successive suction strokes of the piston.

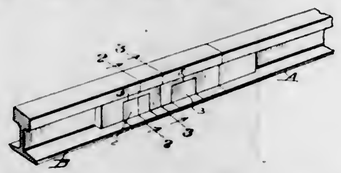
1,380,975. POWER PLANT. CHARLES F. KETTERING and WILLIAM A. CHRYST, Dayton, Ohio, assignors, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Original application filed Oct. 27, 1915, Serial No. 58,207. Divided and this application filed Dec. 8, 1919. Serial No. 343,332. 9 Claims. (Cl. 290—46.)



5. A power plant having a prime mover and a dynamo electric machine adapted to be driven by the prime mover,

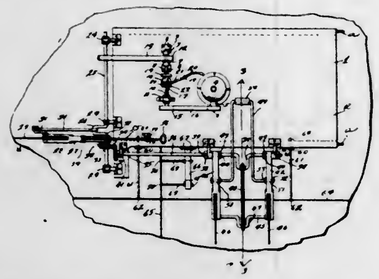
comprising, in combination, an internal combustion engine having a crank case, an engine crank shaft supported on but two bearings and having its ends extending beyond the bearings and the crank case, an engine flywheel mounted on one extended end of the crank shaft, and an armature of substantial weight fixedly mounted on the oppositely extended end of the crank shaft.

1,380,976. RAIL-JOINT. ISRAEL LEVI KING, Boston, Mass. Filed Oct. 7, 1920. Serial No. 415,312. 1 Claim. (Cl. 238—176.)



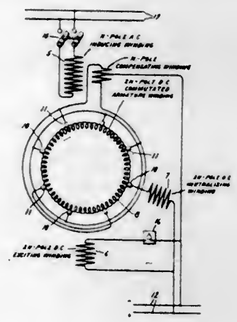
In a rail joint, the combination of two rail sections having interconnecting ends, the one section having a portion of its tread removed to provide a longitudinal base projection, the said base projection having lateral projections at its free end and further lateral projections at intermediate positions between the first said lateral projections and the body portion of the rail, the longitudinal base projection being relatively narrow as compared with the width of the base of the section, the other section being provided with a longitudinal slot opening through its base and being further provided with transverse slots across the longitudinal slot, whereby the longitudinal base projection may rest in the longitudinal slot and the lateral projections rest in the transverse slots.

1,380,977. ICE-CUTTING MACHINE. KARL KLINE, White River, S. D. Filed Mar. 29, 1917. Serial No. 158,262. 1 Claim. (Cl. 262—21.)



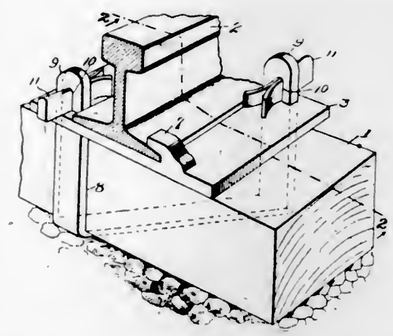
In an ice cutting machine, a portable frame work, a pair of crank shafts mounted in bearings of the frame work at right angles to each other and having their adjacent portions provided with beveled gear connections, two sets of arms, one set consisting of a pair of arms pivotally mounted upon one crank shaft, the other consisting of a single arm pivotally mounted on the other crank shaft, a stud crank shaft mounted in the free end of the single arm and provided with a revoluble cutting tool, a link connecting the crank arm of the stud crank and the crank of the shaft on which the single arm is pivotally mounted, a crank shaft mounted in the free ends of said pair of arms and provided with a revoluble cutting tool on each end, said revoluble cutting tools being mounted in bifurcations of the arms, a link connecting the crank of the last named crank shaft and the crank of the shaft on which said pair of arms is pivotally mounted, and means whereby revoluble movement may be imparted to one of the crank shafts for rotating the rotary cutting elements.

1,380,978. CONVERTER. WILLEM C. KORTHALS-ALTES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 22, 1917. Serial No. 208,508. 6 Claims. (Cl. 171—123.)



2. A combined alternating current and direct current dynamo electric machine comprising in combination, a slotted stator member having an alternating current inducing winding, a direct current exciting winding, a direct current neutralizing winding, and a compensating winding distributed in the slots so as to form when assembled a two-layer lap winding; a rotor member having a commuted winding, and coöperating short circuited brushes therefor having connections for completing the operating arrangements of both the alternating and direct current components of said machine.

1,380,979. COMBINATION RAIL-SEAT, TIE-PLATE, AND RAIL-TIE CLAMP. JOHN WILLIAM KUMMER, Seattle, Wash. Filed Dec. 7, 1920. Serial No. 428,933. 3 Claims. (Cl. 238—304.)



1. In an apparatus of the class described, the combination of a base plate provided at opposite sides and at opposite corners with lateral extensions, said lateral extensions provided with apertures, said base plate provided with rail-engaging means, an anchor member extending at its ends through the apertures of the lateral extensions, and locking means on the extended ends of said anchor member.

1,380,980. LOUVER OR SLAT WINDOW. LOUIS LANE, Habana, Cuba. Filed Apr. 27, 1920. Serial No. 377,033. 6 Claims. (Cl. 98—31.)

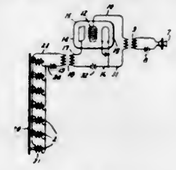
2. In a louver window, longitudinal corrugated louvers presenting an intermediate approximately plane portion,

portions adjacent to and above and below said intermediate portion and disposed in opposite oblique planes,



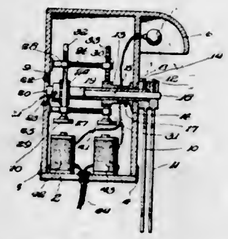
and upper and lower edges adjacent to said oblique portions.

1,380,981. TELEPHONE. IRVING LANGMUIR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 21, 1917. Serial No. 163,730. 6 Claims. (Cl. 179—115.)



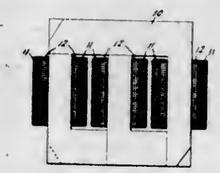
2. A telephone comprising a plurality of diaphragms each having such area as to vibrate substantially as a unit, said diaphragms being combined to constitute a surface having a diameter of the order of magnitude of at least about two feet, and means vibrating said members in unison in response to a telephonic current.

1,380,982. DIRECTION-INDICATOR FOR VEHICLES. ADAM LATSHAW, Dubois, Pa. Filed Dec. 5, 1919. Serial No. 342,704. 1 Claim. (Cl. 177—327.)



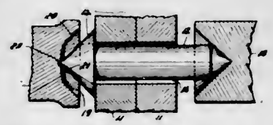
The combination of a casing, a hollow shaft journaled in and extending through one wall of the casing, a second shaft journaled at one end in the opposite wall of the casing and having its opposite end extending through and beyond the hollow shaft, said second shaft having an annular shoulder abutting the inner end of the hollow shaft, a collar secured on the hollow shaft and abutting the inner side of the wall of the casing, indicator arms secured on the outer ends of the shafts, a gear on each shaft within the casing, racks mounted in the casing at opposite sides of the shafts, each rack meshing with one of the gears, and means for actuating said racks.

1,380,983. CORE FOR ELECTRICAL APPARATUS. CORLISS E. LEE, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,714. 2 Claims. (Cl. 175—356.)



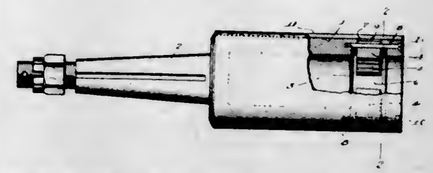
1. A core for electrical apparatus comprising yoke members and n legs, assembled solely from L-shaped elements, each lamination in the core having one element arranged to form one leg and one yoke, and $n-1$ other elements each arranged to form another leg and part of a second yoke.

1,380,984. DIE. CHARLES F. LENHART, Philadelphia, Pa. Filed Mar. 14, 1919. Serial No. 282,529. 3 Claims. (Cl. 78—46.)



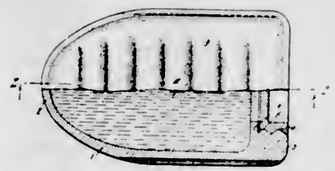
1. A die for setting a rivet in the rivet hole of a piece of work comprising a pressure applying head formed with a working surface whose greatest transverse distance is greater than the diameter of the shank of the rivet and less than the diameter of the rivet hole.

1,380,985. AXLE FOR FORD CARS. JOHN D. LEWIS, Tyrone, Okla. Filed Apr. 18, 1919. Serial No. 291,047. 1 Claim. (Cl. 301—130.)



A device of the class described comprising a cylindrical body provided with a bore and having an annular groove adjacent its open end, and a pair of openings communicating with said groove, a spindle connected with said body, a pair of dogs of crescent shape located in said openings with their ends engaging the groove, said dogs having oppositely arranged teeth on their inner faces and means for movably holding said dogs in place.

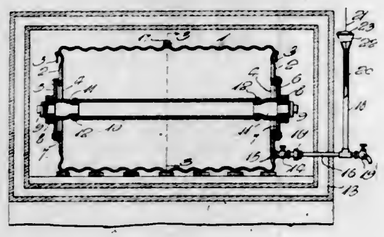
1,380,986. MASSAGE DEVICE. JOHN OLOV LINDEN, Albuquerque, N. Mex. Filed June 24, 1920. Serial No. 391,347. 4 Claims. (Cl. 128—60.)



1. A massage device, comprising a relatively wide and elongated hollow body having a flat end and a convexly

curved end, and a removable plug normally closing the entrance to said hollow body, said hollow body having transverse corrugations on one of its relatively wide surfaces.

1,380,987. PORTABLE REFRIGERANT-CONTAINER. JOHN W. LIPPINCOTT, Little Rock, Ark. Filed June 14, 1920. Serial No. 388,898. 6 Claims. (Cl. 62—1.)



2. A refrigerating appliance comprising a receptacle having heads, nipples passing through the heads and connected with the same, removable means for closing the outer ends of the nipples, and a tube extending longitudinally of the receptacle and connected with the inner ends of the nipples, the tube being formed of material permitting transverse compression of the tube to compensate for expansion when water is frozen in the receptacle.

1,380,988. MEANS OF HANDLING, SORTING, AND DISTRIBUTING PARCELS, BALES, AND LOADS OF GOODS AND THE LIKE. GUY ERNEST LLOYD, Banstead, England. Filed Sept. 8, 1919. Serial No. 322,469. 11 Claims. (Cl. 104—25.)



1. Apparatus for handling, sorting and distributing parcels, bales and loads of goods and the like by truckers running on a track of varying inclination, wherein a frame carried by wheels follows the inclination of the track, a platform bearing the goods is mounted to turn on an axis on the frame, and means on the trucker cooperating with means on the track are provided whereby the platform is maintained level whatever the inclination of the frame.

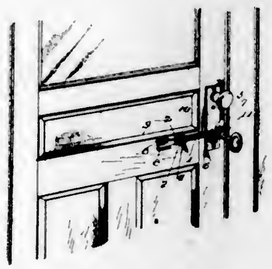
1,380,989. CARPET-STIFFENER. ADOLPH F. LONK, Chicago, Ill. Filed May 12, 1920. Serial No. 380,864. 2 Claims. (Cl. 154—49.)



2. A carpet stiffener comprising a flat metallic body having one end portion provided with an attaching device, and a loop adapted to be permanently secured to a carpet and also adapted to be engaged by said attaching device.

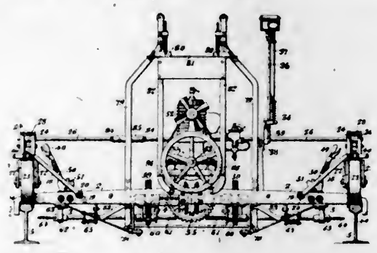
1,380,990. KEY-FASTENER. ADOLPH F. LONK, Chicago, Ill. Filed May 27, 1920. Serial No. 384,662. 2 Claims. (Cl. 70—7.)

2. A device for the purpose set forth comprising a shank provided with oppositely extending longitudinal flanges at one end and at its opposite end in one edge with a key-engaging notch and on the opposite edge



with a keyhole-covering lip, and pivot-receiving tongues extending from the opposite edges of the shank intermediate the ends thereof.

1,380,991. PORTABLE RAIL-DRILL. JOHN J. LONSWAY, Fostoria, Ohio. Filed Apr. 11, 1918. Serial No. 228,002. 10 Claims. (Cl. 77—9.)



1. A drilling machine for rails of tracks comprising drilling mechanism, a main supporting frame for the drilling mechanism, and end frame members at the ends of the main frame having track-engaging means for carrying the latter, said end frame members and main frame being constructed of separate elements connected together and electrically insulated one from the other at all their points of connection, the ends of said main frame where connected with the end frame members being spaced from the track rails, whereby short circuiting of signal currents is prevented.

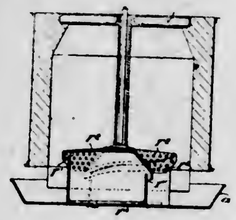
1,380,992. GRAFTING-VALVE. LEVI LUNDQUIST, Middletown, Calif. Filed July 12, 1920. Serial No. 395,478. 3 Claims. (Cl. 47—6.)



1. A grafting sap valve comprising a member having a cavity to receive a packing of absorbent material and provided with a passage for the entrance of the sap and communicating with the said cavity.

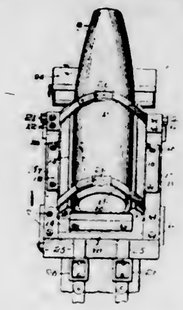
2. A grafting sap valve comprising a tubular member having an entering end cut diagonally whereby when the said end is driven into the stock for a portion of the length of the said end only, an opening will be left in the side of the valve through which sap may enter the valve.

1,380,993. GAS-PRODUCER. ARTHUR HENRY LYMN, London, England, LEWIS ADAMS RILEY, 2d, New York, N. Y., and NIELS EDWARD RAMBUSH, London, England. Filed Oct. 31, 1916. Serial No. 128,746. 6 Claims. (Cl. 48—66.)



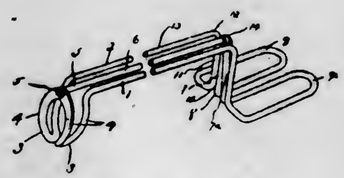
3. In a gas producer a stationary shell, a revoluble ash bowl, a grate fixed thereupon and surfaces on the upper side of said grate of spiral configuration symmetrically arranged around a center and having a very gradual rise terminated by abrupt shoulders of considerable depth and being widely separated angularly thereby providing only a few upwardly directed projections.

1,380,994. PACK-CARRIER FOR SHELLS AND PROJECTORS. JAMES E. MCNARY, U. S. Army. Filed Nov. 14, 1918. Serial No. 262,624. 2 Claims. (Cl. 224—43.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A shell carrier of the pannier type having an arched dorsal link, a pannier hinged to either side of the said link and provided with base and lateral supports for a shell, a back-pad, and straps and buckles for attaching the combined panniers to the back-pad, each pannier being provided with cushioned crossbars for supporting it upon the back-pad.

1,380,995. PIG-FORCEPS. JACOB MARKUS, Corsica, S. D. Filed July 8, 1920. Serial No. 394,656. 1 Claim. (Cl. 128—324.)



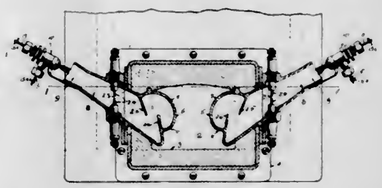
A device of the character described comprising a pair of longitudinally hingedly connected members, said members being formed from rods, the outer ends of which rods are bent so as to form engaging loops disposed at substantially a right angle to the body portion of each member, the rear ends of said members being bent at an angle to the body portions of the members and formed into loops adapted to be engaged by the hand, said loops being in a plane parallel to the bodies of the members, a longitudinally disposed portion carried by one of the members and disposed between the body members of the pivoted members, the outer end of the longitudinally disposed portion having pivoted thereto the ends of the outer vertical portions of the engaging loops, an arm extending upwardly from one handle member and an eye carried by said upwardly extending arm in which the longitudinally disposed portion is rockably mounted.

1,380,996. WINDOW-GLASS SILENCER. TRUMAN J. MARTIN, Allentown, Pa. Filed Nov. 10, 1920. Serial No. 423,200. 1 Claim. (Cl. 20—56.)



The combination with a channeled window frame having a glass disposed therein, of oppositely disposed bowed leaf springs secured to the sides of the channel, said leaf springs being centrally secured to the channel and extending outwardly on each side of the securing points and merging in flat engaging portions for engaging the glass and then extending outwardly from each other and merging into flat portions for engaging the sides of the channel.

1,380,997. METHOD OF AND APPARATUS FOR BURNING COMBUSTIBLE MIXTURES. ROBERT F. METCALFE, Erie, Pa. Filed Aug. 14, 1918. Serial No. 249,777. 21 Claims. (Cl. 158—4.)

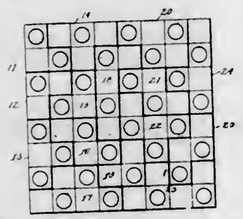


15. In an apparatus for burning combustible mixtures the combination of a burner having a mixing chamber with flame discharge and a mixer throat; a spraying device delivering a cold combustible mixture to the mixing chamber through the throat; mechanism for controlling the spraying device pressure; and means igniting the mixture in the burner, the spraying device and discharge having a relation confining combustion to the mixture in the burner initially and transferring the flame to without the burner as the temperature of the burner is increased.

1,380,998. PUZZLE. ROBERT K. MILLARD, Pittsburgh, Pa. Filed May 1, 1920. Serial No. 378,279. 1 Claim. (Cl. 46—41.)

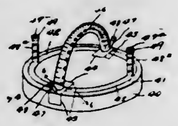
A sectional puzzle comprising fifteen elements each presenting a plurality of squares of equal size and defined jointly by surface lines and the marginal edges of

the respective elements, adjacent squares being distinguished, said elements presenting members and surface squares positioned to variously receive different members and squares of others of said elements in a variety of distinctive assemblages, said elements comprising the following to wit; four L-shaped elements each presenting three squares; three elements each presenting four squares disposed in two overlapping rows of two squares each; two elements of T-shape presenting four squares; one L-shaped element presenting five squares of which four are in line; one element presenting five squares of which four are disposed as a T and one at one end of the T-head



and at the opposite side from that square constituting the shank of the T; one element presenting four squares arranged as a square, and a fifth square at one side of one of the said four squares; one element presenting six squares of which four are in a row and two at one side of said row alongside the two intermediate squares in said row; one element presenting four squares in a row and a fifth square at a side of one of the squares disposed next to an end square in said row; and one element presenting four squares in a row and two squares at one side of the row, said two squares being spaced the distance of one square and one of the two being adjacent to an end of said row.

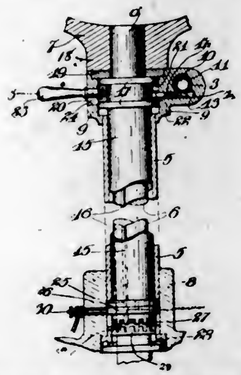
1,380,999. AERO ANGLE-METER OR LEVEL-REGISTER. WILLIAM CHRISTOPHER MOOR, Havilah, Ontario, Canada. Filed Dec. 9, 1918. Serial No. 265,862. 3 Claims. (Cl. 33—209.)



1. In an aero-angle meter, the combination with a casing having an annular non-freezing fluid containing chamber, of a marine compass carried by the casing, a semi-circular hollow transverse tube, having its opposite ends connected to the top wall of the chamber and in communication therewith at points adjacent the diametrically opposite east and west indications of the compass, said tube adjacent its ends having graduations indicating the level of the fluid as it rises and falls in either end of the tube, whereby the degree of angle of the craft to either side may be indicated, perpendicular hollow transparent tubes connected to the top wall of the chamber at points adjacent the north and south indications of the compass and being in communication with said chamber, said last named tubes having graduations for indicating the level of the fluid as it rises and falls, whereby the angle of tilt of the craft fore and aft may be indicated.

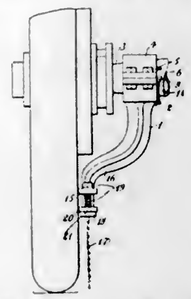
1,381,000. STEERING-GEAR LOCK FOR MOTOR-VEHICLES. MAX M. MUELLER, Chicago, Ill. Filed July 7, 1919. Serial No. 308,948. 7 Claims. (Cl. 70—127.)

1. The combination of a steering gear having a clutch member, a rotatable steering post, a sleeve rotatable with and slidable on the steering post, a tube in which the post and the sleeve are housed, a clutch member on the sleeve adapted to engage the first-mentioned clutch member to establish a driving connection between the steering



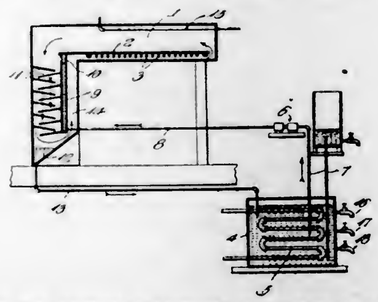
post and the steering gear when the sleeve is slid in the direction of said first mentioned clutch member, means for sliding the sleeve, and means for locking the sleeve against a sliding movement.

1,381,001. NON-SKID DEVICE FOR MOTOR AND OTHER VEHICLES. ASHLEY CHARLES NORMAN, Battersea Park, London, England. Filed Jan. 20, 1921. Serial No. 438,696. 6 Claims. (Cl. 188—4.)



1. A non-skid device comprising an arm, rotatively supported from an axle of a vehicle, a flexible mat carried by said arm, and means for turning the arm and thereby the mat in the steering of the vehicle.

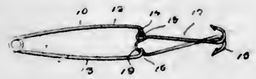
1,381,002. PROCESS FOR SOLVENT RECOVERY. ARTHUR SAMUEL O'NEIL, Wilmington, Del. Filed Mar. 3, 1919. Serial No. 280,282. 6 Claims. (Cl. 252.)



1. In the recovery of solvents, which when vaporized in a gas atmosphere, produce vapor mixtures substantially

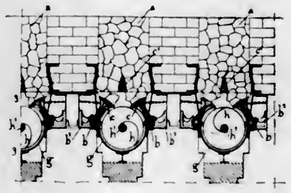
heavier than the said gas atmosphere alone, the process of allowing a current of heated gas to pass in contact with material carrying such solvent to be recovered, and then allowing the solvent laden gas current to travel downwardly through a tortuous passage containing liquid solvent in a refrigerated condition, in direct contact with said solvent-vapor-laden gas current and allowing the gas to repeat the cycle of operations, the travel of the gas-vehicle being effected solely by the gas-heating operation and the contact with the refrigerated solvent.

1,381,003. FISHHOOK. CHARLES E. PIERSON, Newcastle, Ind. Filed May 22, 1920. Serial No. 383,535. 3 Claims. (Cl. 43—36.)



1. A fish hook comprising a length of wire bent intermediate its ends and looped to provide normally divergent spring arms, an eye formed at the end of one arm, a loop formed intermediate the ends of the other arm, said second named arm having its terminal portion bent and formed as a fish hook, a hook having a loop engaging within the eye at the end of the first mentioned arm and formed with a hook-like terminal engaging within said second named loop whereby to hold the arms toward each other in contracted position.

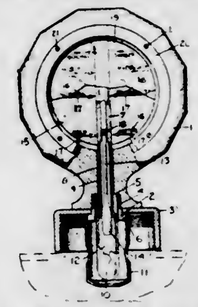
1,381,004. AUTOMATIC DISCHARGING APPARATUS FOR CONTINUOUS VERTICAL OVENS. JULIEN PIETERS, Paris, France. Filed Jan. 23, 1918. Serial No. 213,369. 2 Claims. (Cl. 202—5.)



1. A discharge apparatus for continuous vertical coke ovens or the like, comprising a stationary bottom, constituting a part of the oven and closing horizontally the lower part thereof, two movable grates located opposite each other on either side of the oven, at a little distance but immediately above the said stationary bottom of the oven, said grates being normally drawn together so as to support the whole weight of the oven charge, means for temporarily moving said grates in opposite directions, so as to clear the lower part of the oven and allow the lowering of the whole oven charge a short distance to the stationary bottom, a conveyer upon the said stationary bottom between the movable grates, for horizontally removing the under part of the oven charge when the said grates have again been drawn together, and thus to separate the lower portion of the oven charge and remove the weight of the superposed charge of the oven from the material in the conveyer.

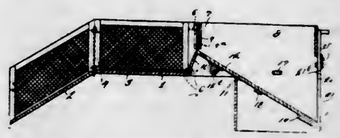
1,381,005. RADIATOR-THERMOMETER. GEORGE PHILO PITKIN, Bergenfield, N. J. Filed Aug. 22, 1919. Serial No. 319,172. 2 Claims. (Cl. 73—52.)

1. A device of the character described, comprising a casing, a cap, a tubular coupling connecting the casing and the cap, a tube projecting into the casing and having a bulb thereon outside of the casing, a perforated shield secured to the coupling and inclosing said bulb, a float in the tube having a mark at its upper end, an expansible liquid in the bulb for moving the float, a plate in the casing



having luminously exhibited indicia registering with the marked end of the float, and a transparent plate inclosing the casing.

1,381,006. HOG-RESTRAINING DEVICE. CARL W. PITLICK, Oahe, S. D. Filed Sept. 19, 1919. Serial No. 324,802. 2 Claims. (Cl. 119—99.)



1. In a device of the character described comprising a gangway and a tilting platform section, the inner end of the gangway section being provided with a partition having an animal passage under the same, a tilting platform horizontally pivoted within the platform section and in horizontal alinement with the flooring of the gangway section, means whereby said tilting platform will tilt as the animal moves over the same thereby sliding the animal toward the lower end thereof when the same is inclined, an adjustable head engaging opening in the end of the tilting platform section and adapted to receive the animal's head, and a downwardly extending curved member concentric with the pivotal point of the tilting platform and carried by the rear end of the tilting platform and adapted to register with the passage under the partition at the end of the gangway section when the platform is tilted thereby preventing animals that may follow on the gangway section from entering the pivoted platform section after the platform has been tilted.

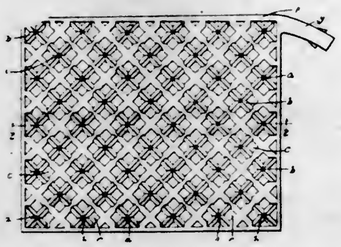
1,381,007. SELF-CLEANING CURRYCOMB. CARL W. PITLICK, Oahe, S. D. Filed Sept. 25, 1919. Serial No. 326,207. 1 Claim. (Cl. 119—88.)



A tooth cleaner for curry-combs comprising a plate adapted to be held in engagement with the under face of the comb body member, elongated transversely disposed slots in said cleaner plate adapted to receive the toothed transverse bars of the curry-comb, the corners of said cleaner plate being provided with upwardly extending threaded lugs having nuts on their ends, said lugs extending upwardly through apertures in the corners of the comb body member, coil springs disposed between the lug nuts and the upper face of the body member for maintaining the cleaner plate in engagement with said body

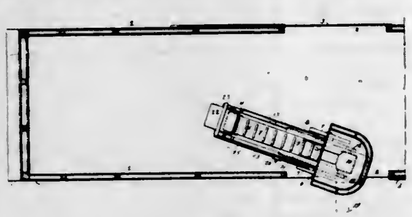
member, pivoted levers carried by brackets at the corners of the body member, one end of said pivoted levers being provided with rollers, said rollers being disposed in engagement with the upper face of the cleaner plate through elongated apertures in the body member, the upper ends of the links being connected together and means whereby said pivoted levers may be rocked in unison thereby forcing the cleaner plate downwardly for cleaning the toothed bars.

1,381,008. BATTERY-GRID. WILLIAM R. POLK, Atlanta, Ga. Filed June 16, 1920. Serial No. 389,405. 4 Claims. (Cl. 204—29.)



1. A grid comprising two latticed webs arranged with intersections of one opposite the openings in the other, said webs having their sides beveled inwardly and transverse posts intermediate the web intersections connecting adjacent portions of said webs and spacing the same.

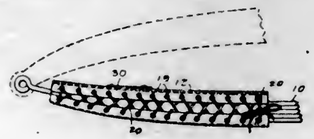
1,381,009. BOX-CAR LOADER. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1917. Serial No. 208,644. 1 Claim. (Cl. 193—19.)



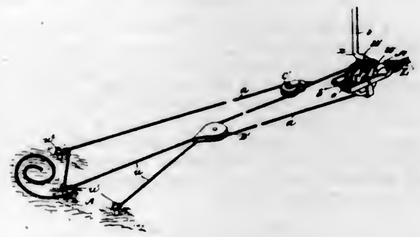
The combination of a portable car loaded adapted to be moved bodily into a car and of such length as to be turned within a car to discharge material into the ends thereof, and a platform, wheels supporting the platform, a frame carried by the platform and an inclined conveyer frame thereon having bearings at each end and a shaft mounted in each bearing, a wheel on each shaft, an endless belt conveyer passing around the wheels and arranged to carry the material, transverse slats on the belt, a hopper directly above the lowest portion of the belt and arranged to feed material to the belt, said hopper being of greater width than the belt so as to project beyond the car body to allow material to be discharged from a chute on the outside of the car into the hopper and a support under the belt and inclined deflectors on each side of the support to prevent the material from falling onto the lower run of the conveyer belt.

1,381,010. DEMOUNTABLE SPRING COVERING AND OILER. GEORGE BITHEL PRICE, Salt Lake City, Utah. Filed Apr. 17, 1920. Serial No. 374,779. 3 Claims. (Cl. 267—37.)

2. A spring boot formed of flexible material adapted to surround a spring, a relatively thick pad of absorbent material within the boot to provide a lubricant container or reservoir, said boot having an opening therein for supplying lubricant to the container and a cup-like receptacle secured around said opening and positioned within an opening in the absorbent pad.

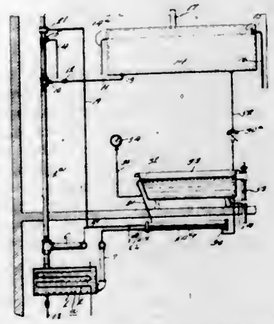


1,381,011. DEVICE FOR HAULAGE OR STRAINING PURPOSES. ALFRED ARTHUR QUICK, Melbourne, Victoria, Australia. Filed Jan. 31, 1919. Serial No. 274,204. 5 Claims. (Cl. 254—65.)



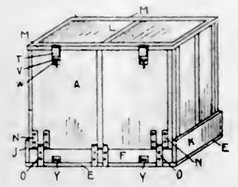
1. A hauling or straining device comprising a winch, a pair of snatch blocks, a rope having one end connected to the frame of one of the snatch blocks and its opposite end reeved around the winch through the second snatch block and through the first snatch block and means for adjustably securing the free end of the rope substantially as described.

1,381,012. HYDROTEMPERATURE-CONTROL SYSTEM FOR BATHS AND LAVING PURPOSES. DENIS M. RAICHE, Kankakee, Ill. Filed Apr. 29, 1920. Serial No. 377,679. 2 Claims. (Cl. 126—344.)



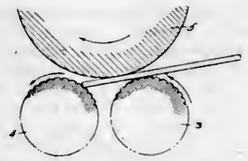
1. A device for heating and maintaining at a constant temperature a continuous flow of water, said device comprising a casing, through which the water flows, a pipe disposed in said casing, said pipe having its ends in communication with a water heating tank, means for heating the water in the water heating tank, a static column rising upwardly from the water heating tank, a pipe connecting to the cold water supply tank and the static column below the overflow thereof, a check valve in said connecting pipe, means for maintaining a constant level of water in the tank and in the column for maintaining a predetermined water temperature in the water heating tank, said column forming means whereby as excess heat is generated in the column the water therein will be forced upwardly through the overflow creating a vacuum in the column which opens the check valve, thereby permitting cold water to flow from the water tank and into the water heating tank.

1,381,013. COLLAPSIBLE CRATE OR PACKING-CASE. CLARENCE FERDINAND RAINSFORD, Parkside, South Australia, Australia. Filed Nov. 18, 1920. Serial No. 424,959. 3 Claims. (Cl. 217—15.)



1. A collapsible crate or case comprising:—a tray formed of the bottom of the crate and low side and end pieces rigidly fastened thereto; ends hinged to the bottom of the tray adjacent to and within the end pieces thereof and adapted to fold down into the tray; sides hinged to the top of the side pieces of the tray and adapted to fold down into the tray and upon the ends; a lid having an external flange which fits over the outside of the ends and sides when erected and having a number of hinged tongues the outer ends of which are set inward and fit into sockets formed in the sides of the crate when erected and into sockets in the side pieces of the tray when collapsed, said tongues and sockets being provided with means whereby the tongues may be secured and sealed when erected and secured when collapsed.

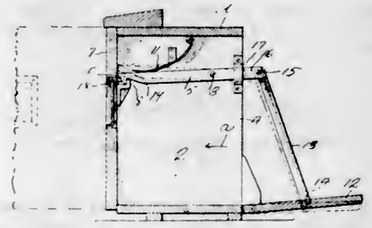
1,381,014. LEAF-SPRING AND PROCESS OF MAKING THE SAME. THEODORE L. R. D'ORVILLE, Sewickley, Pa., assignor to Standard Steel Spring Company, Coraopolis, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1920. Serial No. 352,746. 13 Claims. (Cl. 29—173.)



1. As a new article of manufacture, a steel leaf-spring having a curvature or camber produced by cold bending by means of rolls.

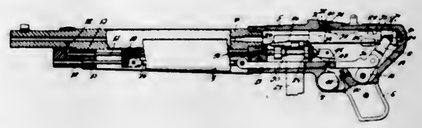
1,381,015. HENHOUSE-DOOR. HENRY REINCKE, Des Plaines, Ill. Filed Mar. 22, 1921. Serial No. 454,456. 1 Claim. (Cl. 119—22.)

A fowl operated closure for hen house openings, said closure being hinged to the hen house and positioned to register with the opening therein when closed, a leaf spring engaging said closure and forming means for forcing the same outwardly when released, a lever pivoted adjacent the closure and inwardly thereof, one end of said lever being provided with a hook, a lug carried by the door and adapted to be engaged by said hook for holding the closure in closed position, a leaf spring engaging the hook carrying end of the lever for normally holding the same in engagement with the hook, means for limiting the pivoted movement of the pivotal lever, a bar pivotally connected to said lever, a substantially horizontally disposed hinged tread member disposed inwardly of the closure, said bar being pivotally connected to said tread member and forming means whereby as the tread member



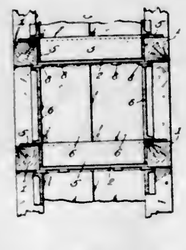
is forced downwardly by the weight of the fowl the pivoted member will be rocked against the action of its spring and the closure released, thereby allowing the closure to be forced to open position by the action of its spring.

1,381,016. FIREARM. EUGENE G. REISING, East Hartford, Conn., assignor to The Hartford Machine Gun Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 11, 1918. Serial No. 211,347. 13 Claims. (Cl. 89—2.)



1. A firearm including a receiver and firing mechanism located therein and including a movably mounted breech-bolt operative by the gases of explosion, means for locking the breech-bolt in its closed position, separate locking means movably mounted to support the breech-bolt and reduce results of the force applied to said locking means by firing action, said supporting means being positioned by the breech-bolt locking means to transmit said force from the breech-bolt to the receiver, and means for initially actuating one of said locks without actuating the breech-bolt.
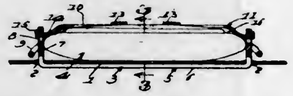
1,381,017. AIR-SHAFT FOR MINES. ALLAN S. RICHARDSON, Butte, Mont. Filed Dec. 24, 1919. Serial No. 347,058. 5 Claims. (Cl. 61—41.)



1. The combination with the horizontal timbers of a mine shaft of angular pieces of fire-proof material adapted to rest upon the horizontal timbers and extend over the front surfaces thereof, means for securing the said pieces to the timbers, slabs of fire-proof material formed to ex-

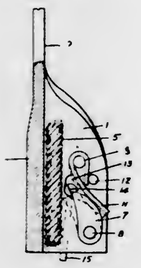
tend from the upper surfaces of the angular pieces on one set of horizontal timbers to the lower surfaces of the next higher set of horizontal timbers and means for securing the slabs in position.

1,381,018. WATCH-HOLDER. WILLIAM C. ROGERS, Fort Sheridan, Ill. Filed July 10, 1918. Serial No. 244,263. 4 Claims. (Cl. 224—4.)



2. A watch holder having a body portion for positioning against one face of an article of wearing apparel, members carried by said body portion and penetrating said apparel at a plurality of points whereby the said body portion is precluded from a shifting of position, and means engageable with said members for holding a watch against the opposite side of said article of apparel.

1,381,019. CABLE-CUTTER. CARL R. SAMUELSON, Portland, Oreg. Filed Nov. 17, 1920. Serial No. 424,597. 1 Claim. (Cl. 255—34.)



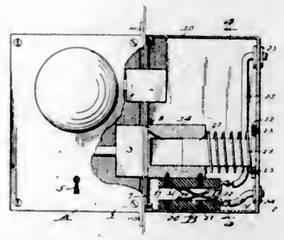
A cable cutting tool comprising a body member, a stem offset from the center line of said member, a vertical drill cable groove in the body member of said tool, right and left handed coil springs to force the cutter toward the opposite side of said body member, a cutter dog in one side of the body member which is brought into engagement with said cutter to prevent the same from interfering with the drill cable when in use, and a plunger passing through the same side of the body member carrying the cutter dog and fastened to said cutter dog at one end, so that the cable cutting tool can be operated after said tool is dropped and the plunger is brought in contact with the top of the drill below, thus releasing the cutter, which engages with the drill cable and the tool is raised and the cable is cut at the desired point substantially as shown.

1,381,020. ELECTRIC SIGNALING APPARATUS FOR CARS, ON ELECTRIC AND OTHER RAILWAYS. HANS SCHAUB and CARL KÜNZLI, Zurich, Switzerland. Filed Apr. 14, 1919. Serial No. 289,796. 3 Claims. (Cl. 200—152.)



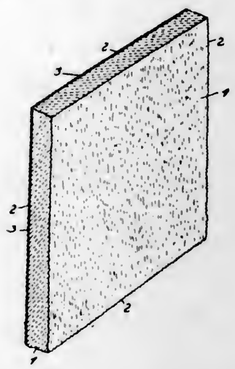
1. A three pole electric mercury switch, including a rotary horizontal axis, a plate mounted on said axis and provided with an angular chamber located in a plane perpendicular to the axis and about half filled with mercury, conducting plugs closing the ends of the chamber, means for connecting said plugs with an electric circuit, and a third plug provided at the apex of said chamber and being constantly connected with the mercury within the chamber.

1,381,021. ELECTRIC-SWITCH LOCK. GUIDO F. SCHLOTE, Afton, Wyo. Filed May 15, 1918. Serial No. 234,646. 1 Claim. (Cl. 200—55.)



In a device of the kind set forth, a casing, a detachable plate closing the casing at one side and formed with an opening therein, a bar polygonal in cross section mounted in the casing at right angles to and on that side opposite the opening in the said plate, a block in surrounding relation to said bar and slidable longitudinally therealong, a spring in surrounding relation to the bar and bearing against one end of said block to force the opposite end of the latter against the removable plate, insulating blocks secured respectively on the bottom face of said block and on the top face of the bottom wall of said casing, bowed springs secured respectively on the bottom and top faces of said insulating blocks, and terminals secured to said springs, the opening in the detachable plate providing for the insertion of means to bear upon the first said block to move it against the pressure of said spring so that the bowed springs may be separated to effect the opening of the circuit.

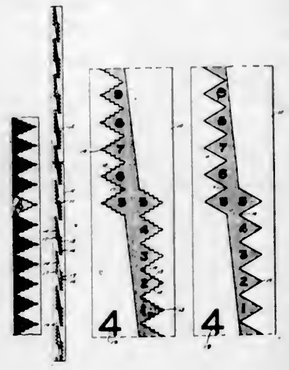
1,381,022. OPTICAL PROJECTION-SCREEN. ARTHUR SCHULZE, Berlin, Germany, assignor of one-half to Deutsche Lichtbild-Gesellschaft E. V., Berlin, Germany. Filed Jan. 20, 1920. Serial No. 352,849. 3 Claims. (Cl. 88—24.)



1. An optical projection screen consisting of a transparent sheet with both surfaces roughened and a layer

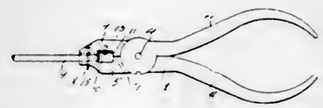
of fatty substance upon the one of the said surfaces that is turned toward the spectators, whereby a dark aspect of the screen is produced while its transparency is increased.

1,381,023. STADIA-ROD. EMMETT H. SCHWIER, Huntington, N. Y. Filed Jan. 21, 1920. Serial No. 353,120. 3 Claims. (Cl. 33—74.)



1. A stadia-rod having graduations consisting of a plurality of unit figures whose major axes are inclined at an angle to the longitudinal axis of said rod.

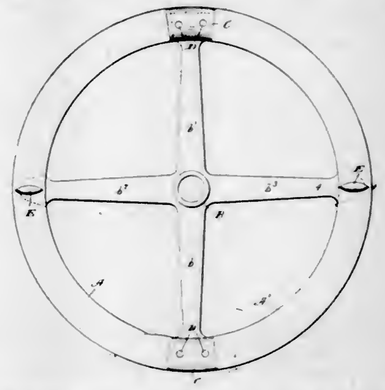
1,381,024. PUNCHING AND CUTTING PLIERS. CHARLES W. SHAUL, Grinnell, Iowa. Filed Aug. 5, 1920. Serial No. 401,404. 1 Claim. (Cl. 164—81.)



A belt cutting and punching tool comprising cross members, said members being pivoted together and provided at one of their ends with hand engaging members and their other ends with jaws, one of said jaws being provided with a longitudinally disposed cylindrical aperture, there being recesses in the jaws in communication with the rear end of the longitudinally disposed aperture, and vertically disposed apertures in one of said jaws and diametrically disposed in relation to the cylindrical apertures, a detachable punching element carried by the other jaw and so positioned that it will pass through the diametrically disposed apertures in the adjacent jaw when said jaws are closed, a right angled shaped knife plate disposed in the recess of the upper jaw, one of the flanges of said right angled knife plate being provided with means for securing and adjusting the same in the recess of the upper jaw and a knife edge carried by the lower end of the other right angled flange and adapted to shear off the end of the belt simultaneously with the punching and piercing operation.

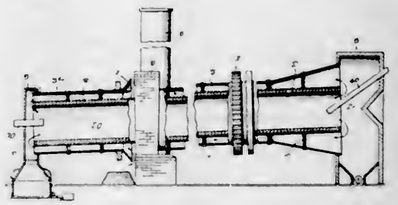
1,381,025. STEERING-WHEEL. O K SNYDER and CHARLES H. KENRICH, Onaway, Mich., assignors to The American Wood Rim Company, Onaway, Mich., a Corporation of West Virginia. Filed Oct. 7, 1918. Serial No. 257,308. 6 Claims. (Cl. 74—33.)

1. A steering wheel comprising a rim formed of two, substantially semi-circular, members, and a spider or frame having diametrically opposite arms terminating in



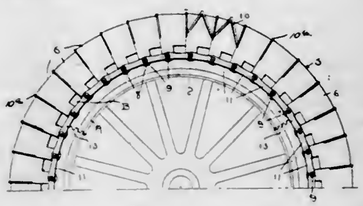
sleeves that receive and surround the adjacent ends of the rim members.

1,381,026. PROCESS OF AND APPARATUS FOR BURNING CEMENTS. WILLOUGHBY ELWOOD SNYDER, Allentown, Pa. Filed May 25, 1920. Serial No. 384,055. 5 Claims. (Cl. 222—7.)



1. The fuel economizing process described which consists in supplying preheated air, at an intermediate point in the length of a kiln, to a chamber about the kiln and which chamber is in communication with one end of the kiln, and conducting the gases discharged at the opposite end of the kiln through a chamber about the kiln, to a discharge located adjacent to the first-named point.

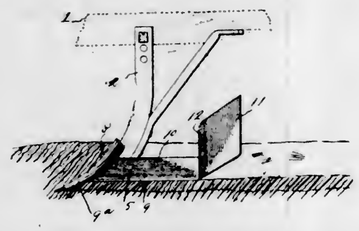
1,381,027. PNEUMATIC-TIRE ARMOR. JOHN STASSE, Laporte, Ind. Filed Nov. 24, 1919. Serial No. 340,112. 1 Claim. (Cl. 152—16.)



A tire armor comprising a plurality of overlapping curved T-shaped sections, the head of each of said sections being provided at its terminals with apertures and having the opposite end thereof reduced, said reduced end underlying the head of the adjacent section to permit movement of the latter relative thereto in conforming to the contour of the tire, external ribs formed on each of said sections, and links connecting said sections at the

opposite terminals of the head thereof, one of the ribs of each section being arranged transversely intermediate the ends thereof to maintain the curvature of the section and to provide an abutment for the overlying head portion of the adjacent section whereby to limit the contracting movement of the several armor sections.

1,381,028. COTTON-CHOPPER. MOSES H. STEVENSON, Rayville, La. Filed Sept. 19, 1919. Serial No. 324,840. 1 Claim. (Cl. 97—9.)



A cotton chopper formed from a single piece of material, said chopper comprising outwardly and rearwardly extending blades, said blades being inclined downwardly and forwardly, a forwardly offset portion U-shaped in horizontal cross section, disposed centrally between the blades, said forwardly offset portion being adapted to receive a sweep stock and engage said stock on each side thereof, an aperture in said forwardly offset U-shaped portion for the reception of a bolt passing through said sweep stock, the ends of the outwardly and rearwardly extending blades being bent upwardly so as to form vertically disposed portions parallel to each other and longitudinally disposed in parallel relation to the longitudinal center line of the plow, and center of the cotton chopper blades, the edges of the vertically disposed portions being provided with vertically disposed cutters which merge into the cutting edges of the outwardly and rearwardly extending blades.

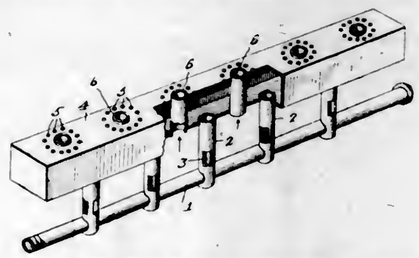
1,381,029. CLIP. ALVAH P. THOMPSON, Salem, and WILLIAM L. BAXTER, Beverly, Mass.; said Thompson assignor of his right to Helburn Thompson Company, Salem, Mass., a Corporation of Massachusetts. Filed Dec. 22, 1920. Serial No. 432,395. 4 Claims. (Cl. 24—258.)



1. A clip comprising relatively movable jaws, a jaw actuating member, an attaching spur and a mount for said actuating member loosely engaging the other elements of the clip.

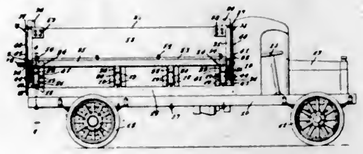
1,381,030. GAS-BURNER. AUGUSTUS F. THOMPSON, Huntington, W. Va. Filed Sept. 27, 1920. Serial No. 412,941. 1 Claim. (Cl. 158—104.)

A gas burner comprising a horizontally-disposed and closed mixing-chamber provided at intervals in its top-wall with a series of sets of jet perforations, a plurality of mixing-tubes discharging into and through the bottom-wall of said mixing-chamber at points staggered with relation to the sets of jet perforations, each of said mixing-tubes being provided with one or more air-intake-openings, a gas-supply-pipe connected successively to the lower ends of the mixing-tubes below the air-intake-openings, and a series of air-supply tubes each being mounted in the top and bottom walls of the mixing-chamber and arranged con-



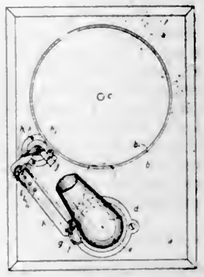
centrically with a set of the perforations and open only at its ends to supply air from beneath the mixing-chamber to the middle of each set of jet perforations.

1,381,031. DUMPING-WAGON. JAMES THOMPSON, Greeley, Colo. Filed Jan. 19, 1920. Serial No. 352,281. 3 Claims. (Cl. 298—13.)



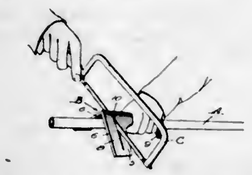
1. A dumping body attachment for vehicles, including longitudinal bed pieces, transverse segmental supports mounted thereon, guard straps connected to the supports and forming arcuate slots, antifriction rollers between the supports, a body, depending extensions on the body and extending transversely thereof, said extensions having arcuate recesses in the lower portions thereof and bearing on the antifriction rollers, a longitudinal shaft carried by the body and extending through the arcuate slots, gears thereon, rack teeth upon the segmental supports and engaged by the gears, means for rotating the shaft and gears to swing the body laterally to dumping position, a hingedly mounted yoke carried by one of the supports and movable into engagement with the shaft to hold the body against lateral movement.

1,381,032. AUTOMATIC BRAKE FOR TALKING-MACHINES. HERMANN THORENS, Sainte-Croix, Switzerland. Filed Apr. 25, 1917. Serial No. 164,334. 1 Claim. (Cl. 192—116.)



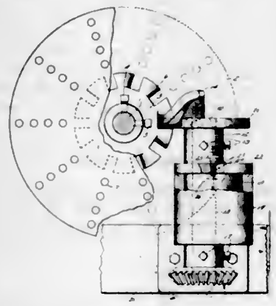
An automatic brake for talking machines comprising a curved stem on the shank of the tone arm having a portion thereof concentric with the axis of rotation of the tone arm, a two armed lever fulcrumed at the junction of its arms, a brake pad mounted on the end of one of such arms, a roller mounted at the end of the other arm and a spring acting upon such lever and causing the roller to bear against the aforesaid stem such that immediately the end of the groove on the record is reached the tone arm is caused to swing toward the center of the record and the brake brought into operation, the said lever being made in two parts adapted to be connected together in such manner that the length of the said other arm may be adjusted so that the mechanism may be used with machines having different sized boxes.

1,381,033. MITER-BOX. JOHN HOWARD THORNTON, Nashville, Tenn. Filed Nov. 1, 1919. Serial No. 334,928. 3 Claims. (Cl. 29—75.)



1. A miter box of the character described, comprising a substantially V-shaped frame adapted to be inverted for bridging a piece of work and having a kerf therein for guiding a hack saw operated for severing the piece of work opposite portions of the frame being cut away to permit the simultaneous gripping of said frame and the piece of work.

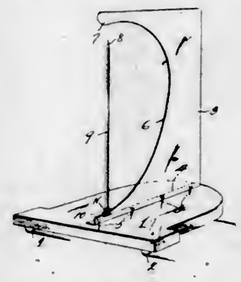
1,381,034. JACQUARD MECHANISM. GEORGE CHRISTIAN LOUIS TISCH, Elizabeth, N. J., assignor to Tisch Machine Tool and Die Works, Elizabeth, N. J., a Corporation of New Jersey. Filed Apr. 29, 1920. Serial No. 377,628. 3 Claims. (Cl. 66—12.)



1. The combination with a jacquard mechanism having a plurality of radiating rows of pin receiving openings, of a toothed wheel removably connected with said jacquard mechanism formed with a tooth for each row of pin receiving openings in said jacquard mechanism, a worm member for driving said toothed wheel, a driving shaft for said worm member, means for removably connecting said worm member to said shaft and means for adjusting said shaft toward and from said toothed wheel.

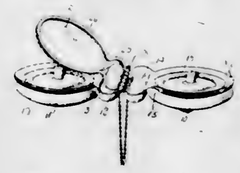
1,381,035. SPINDLE-FILE. ARTHUR URBAN, Sheboygan Falls, Wis. Filed May 25, 1920. Serial No. 384,031. 1 Claim. (Cl. 129—23.)

A file comprising a base, a spindle guard plate carried by the base, a right angle integral flange carried by said plate and secured to the base, said flange having an upwardly struck annular flange adjacent its forward end, a spindle file having its lower end secured within the annular flange of the base and rising upwardly from said flange, the front edge of the guard plate being cut away so as to provide a rigid guard member disposed



substantially above the upper end of the spindle file, said cutaway portion also providing space whereby papers being filed may be received by the file spindle.

1,381,036. VANITY-BOX. ANTOINE VERICEL, New York, N. Y., assignor to Vericel, Inc., New York, N. Y., a Corporation of New York. Filed July 8, 1919, Serial No. 309,314. Renewed Apr. 5, 1921. Serial No. 458,696. 1 Claim. (Cl. 132—83.)



A device of the character described comprising a pair of covers, each of which is formed with a substantially circular receptacle, and an elongated receptacle exteriorly arranged with respect to the circular receptacle, means carried by said elongated receptacle for hingedly securing said covers together, and a mirror hingedly secured between said covers.

1,381,037. CAN-OPENER. WILLIAM VOGEL, New York, N. Y. Filed Aug. 17, 1920. Serial No. 404,124. 2 Claims. (Cl. 220—52.)

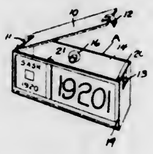


2. A can-opener comprising a stamped sheet-metal blade having a flat relatively broad shank tapering forwardly at its operating end and having a central rectangular perforation in said shank; a stamped sheet-metal jaw member having a butt portion centrally overlying said shank with the butt portion provided with a boss fitting through said perforation and riveted therein and having a jaw forwardly tapered, offset from said operating end extending forwardly and adjusted thereto and providing an open ended slot for the entrance of the lip of a can to be opened.

1,381,038. LICENSE-NUMBER PLATE AND TAIL LIGHT. LAURENCE JOSEPH WALSHE, Saskatoon, Saskatchewan, Canada. Filed Mar. 17, 1920. Serial No. 366,584. 1 Claim. (Cl. 40—63.)

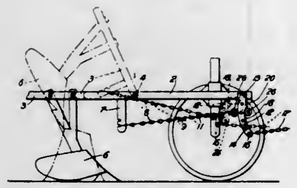
A device of the class described comprising a rectangular casing having brackets on the back wall, a cover hinged to the case, the front wall of the case being formed in skele-

ton formation, end guides on the front wall, the said guides being in the same plane, a removable number plate engaging with the guide, a removable year, province,



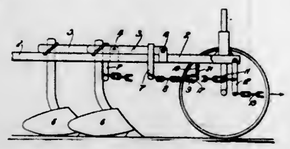
county, or town plate engaging with the guide, the plates being formed with the numbers or letters cut therein by stencil, a sheet of transparent material provided in the back of the plates, and illuminating means in the case.

1,381,039. DRAFT ATTACHMENT FOR STUMP-JUMP PLOWS AND THE LIKE. JOSEPH H. WARNER, Nhill, Victoria, Australia. Filed Nov. 16, 1920. Serial No. 424,548. 6 Claims. (Cl. 97—69.)



1. Improvements in draft attachments for stump jump plows and the like consisting in the combination of an implement frame, pivoted share carriers mounted thereon, a depending draft lever pivoted on the front portion of the frame and having a curved face or track and a free connection or coupling for connecting the pivoted share carriers to said draft lever, said free connection being adapted to move freely along said curved track on the rising of a share or shares through encountering an obstruction, for the purpose set forth.

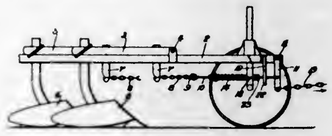
1,381,040. STUMP-JUMP PLOW AND THE LIKE. JOSEPH H. WARNER, Nhill, Victoria, Australia. Filed Nov. 16, 1920. Serial No. 424,549. 7 Claims. (Cl. 97—69.)



1. Improvements in stump jump plows and the like consisting in the combination with an implement frame having a pivoted jump arm or share carrier mounted thereon and connections for transmitting the draft tension to said share carrier, of means for automatically releasing the share carrier from the draft in the event of an abnormal draft tension thereon.
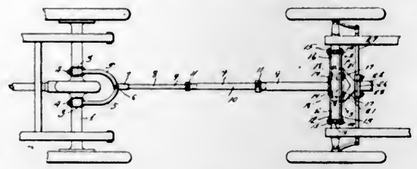
1,381,041. SHOCK-ABSORBING DEVICE FOR STUMP-JUMP PLOWS AND THE LIKE. JOSEPH HARVEY WARNER, Nhill, Victoria, Australia. Filed Nov. 16, 1920. Serial No. 424,550. 8 Claims. (Cl. 97—69.)

1. In a stump-jump plow or the like the combination with an implement frame and a pivoted jump arm or share carrier mounted thereon, of a spring through which the tension of the draft is transmitted to the share carrier, and means whereby the draft tension is automatically removed from the share carrier and transferred direct to



the implement frame when the draft tension exceeds a certain limit, through the share striking an obstruction, for the purpose set forth.

1,381,042. AUTO-TOWING DEVICE. THOMAS J. WEAVER, Denver, Colo. Filed May 25, 1920. Serial No. 384,050. 2 Claims. (Cl. 280—33.5.)



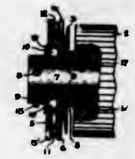
1. A towing device for automobiles comprising a beam formed from telescopically engaging members, means for adjusting said members in relation to each other, one of said sections being provided with a yoke adapted to be secured to the rear axle of an automobile, a channel iron secured to the axle of the towed automobile, downwardly and rearwardly extending arms carried by the under face of the channel iron, lugs carried by the rear section of the beam and resting on the horizontal portions of the downwardly and rearwardly extending arms and adapted to slide thereon according to the direction of turn of the towing vehicle, a yoke having its arms pivoted to the outer ends of the lugs, said yoke being provided with a rearwardly extending arm, and a clamp connected to the connecting rod of the steering mechanism and provided with an aperture for the reception of the rearwardly extending arm of the yoke.

1,381,043. UMBRELLA-COVER. ISAAC H. WEINBERG and CHARLES F. BISBING, New York, N. Y. Filed July 6, 1920. Serial No. 394,142. 3 Claims. (Cl. 135—33.)



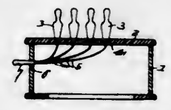
3. As a new article of manufacture, an umbrella cover having an opening or placket in its side at one end, and a triangular shaped elastic gusset secured to the cover at the inner end of the placket, and secured to the edges of the placket, said gusset located at the end of the longitudinal seam of the cover.

1,381,044. SHORT-CIRCUITING DEVICE. ALFRED F. WELCH, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Sept. 10, 1917. Serial No. 190,436. 4 Claims. (Cl. 172—120.)



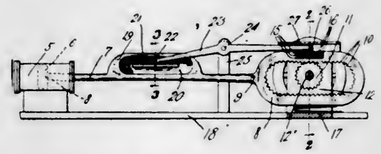
1. The combination with the armature of an alternating current motor provided with a commutator, of an automatic controlling device therefor comprising two opposing disks, one of said disks being fixedly mounted on the motor shaft, a short circuiting ring carried by one of said disks adjacent the commutator, centrifugally acting means causing relative rotation of said disks, means causing relative axial movement of the disks comprising a plurality of opposing cam shaped pockets in the opposing faces of the two disks, a steel ball for each set of pockets, and a spring interposed between the movable disk and the commutator, the ends of the spring being anchored respectively in the disk and in the commutator.

1,381,045. GAME APPARATUS. WILFORD L. WHITE, Boulder, Colo. Filed May 24, 1919. Serial No. 299,438. 1 Claim. (Cl. 46—59.)



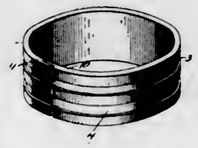
A game apparatus comprising a hollow element the top of which constitutes a platform, a plurality of objects mounted on the platform so that they may be knocked down from upstanding positions, an upstanding support disposed at the side of the platform, a ball, a flexible member supporting the ball above the objects and above the center of the platform, a handle frictionally engageable in so as to be disengageable from a hole formed in the side of the hollow element, and a plurality of cords connecting one end to the handle and the remaining ends one each to one of the objects through holes formed in the platform, whereby the objects may be brought to upstanding positions after having been knocked down, the handle being engaged in the hole except when operating to raise said objects.

1,381,046. MECHANICAL MOVEMENT. AREY V. WINEGARDEN, Wichita, Kans. Filed May 14, 1920. Serial No. 381,338. 3 Claims. (Cl. 74—27.)



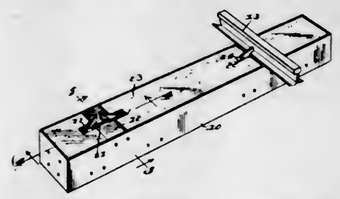
2. In combination with a reciprocating piston rod, a yoke having connection with one end of the piston rod, said yoke having a rack, a pinion in mesh with the rack for receiving motion therefrom, a standard supported adjacent the yoke, an arm pivotally supported by the standard, a bracket on the piston rod, said bracket having track-ways formed therein, a roller on one end of the arm operating in the track-way, the opposite end of said arm having connection with the yoke for moving the yoke vertically when the roller moves in the track-way, and means for supporting the yoke.

1,381,047. PISTON. BERT L. WOODLAND, Muskegon, Mich. Filed Nov. 4, 1919. Serial No. 335,640. 2 Claims. (Cl. 74—108.)



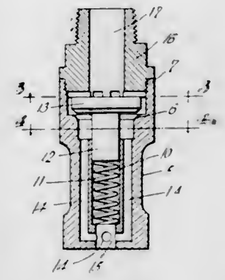
2. In a piston construction, a cylindrical body having a reduced portion adjacent one end thereof, a split spring collar mounted on said reduced portion and having piston ring grooves in the outer face thereof, the ends of the webs between the piston ring grooves being oppositely cut out on their inner and outer faces to overlap to effect a positive closure.

1,381,048. CONCRETE TIE. THOMAS D. WRIGHT, Springville, Ala. Filed July 29, 1920. Serial No. 399,942. 4 Claims. (Cl. 238—89.)



1. A rail tie consisting of a metallic shell having parallel side walls and provided with a filler of concrete, longitudinal reinforcing bars arranged in parallel relation with the side walls of the shell, transverse bottom braces connecting the side walls beneath the lower edges of said reinforcing bars, transverse rest bars disposed adjacent to the upper edge of the shell in the planes of the rails supported by the tie, and clamping means for securing the rails in position, and consisting of relatively movable jaws pivotally mounted upon said longitudinal reinforcing bars.

1,381,049. VALVE. ANTISTENE ABBAMONTE, Pocatello, Idaho. Filed Aug. 7, 1919. Serial No. 315,925. 1 Claim. (Cl. 251—144.)



A drain valve including a casing having a central longitudinal recess provided at its inner end with a duct opening through the adjacent end of the casing, the other

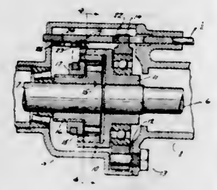
end of the recess opening into a bore in the casing, there being a counterbore in the outer end of said bore provided with interior threads, the junction between the bore and the counterbore constituting a valve seat, a valve loosely mounted in the counterbore, a stem projecting therefrom and slidable within the central recess, a spring seated within the recess and engaging the end of the stem, there being ducts extending longitudinally within the casing from the inner end of the bore and opening into the duct extending from the recess, and a screw plug engaging the threaded portion of the wall of the counterbore and having a central opening therethrough and radial recesses in the inner face of the plug and extending from said passage to the periphery of the plug, the recessed end of the plug constituting an abutment for the spring pressed valve.

1,381,050. RACKET. GEORGE AGUTTER, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,840. 7 Claims. (Cl. 46—24.)



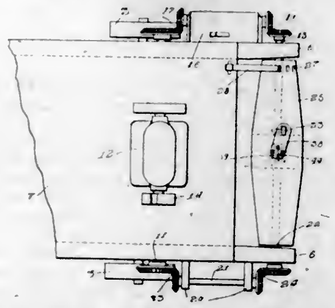
1. A tennis racket comprising a wood body formed with a head merging into a handle, an encircling head of metal fitting against said wood head, strings carried by said wood head extending through said metal head, and means for connecting the metal head with the wood handle, said means including an adjustable member for varying the tension of the connection between the wood handle and the head.

1,381,051. DUAL-SPEED TRANSMISSION. KARL E. AHLBERG, Los Angeles, Calif. Filed Dec. 12, 1919. Serial No. 344,447. 1 Claim. (Cl. 74—58.)



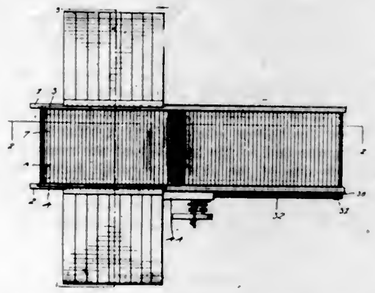
A transmission comprising the combination of a drive shaft and a driven shaft, said drive shaft being mounted to swing through an angle, an internal gear fixedly mounted on said drive shaft, a pinion for meshing with said gear fixedly mounted on said driven shaft, whereby the gear may be swung laterally into mesh with said pinion, an independent clutch splined to rotate with said driven shaft for directly coupling said shafts when said gear and said pinion are out of driving engagement, and means to shift said gear relative to said pinion and simultaneously shift said clutch.

1,381,052. POSTHOLE-DIGGING MACHINE. AMOS A. AMSTUTZ, Bluffton, Ohio. Filed May 5, 1920. Serial No. 379,069. 3 Claims. (Cl. 255—22.)



1. In a device of the class described, a frame; a boring shaft; means for mounting the boring shaft on the frame for rotation and for raising and lowering; means for rotating the shaft; a support mounted to slide in the first specified means; means for operating the support; interengaging elements on the shaft and the support whereby the shaft will be raised when the support is operated; an auger on the shaft; and a casing on the support ond coöperating with the auger.

1,381,053. LOADER. ALGOTH N. ANDERSON, Leal, N. D. Filed May 18, 1916. Serial No. 98,358. 4 Claims. (Cl. 193—14.)



1. In a loader, a constantly moving member serving as a conveyer and as a tread means for a draft animal hauling material to the member, and approach means associated with the member permitting travel of the animal directly on and across the member while the latter is in motion.

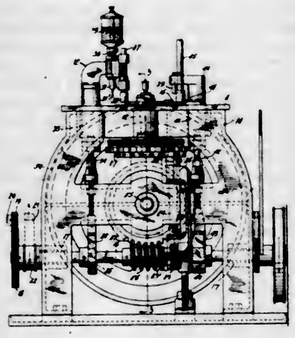
1,381,054. DRYING PLANT. PILADE BARDUCCI, Naples, Italy. Filed Aug. 16, 1919. Serial No. 317,900. 20 Claims. (Cl. 34—19.)



16. In a plant for drying materials, a room intended to contain the material to be dried; a casing adapted to

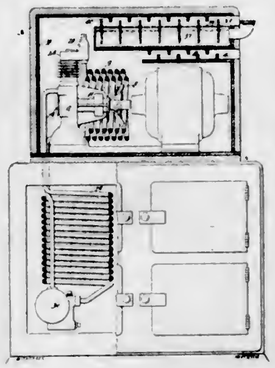
reciprocate in said room and having top and front mouths; means for operating said casing; means for propelling air through said top and front mouths; means for controlling the air flow through said mouths; horizontal stationary plates intersecting said front mouths; movable plates each pivoted adjacent the edge of one of said stationary plates; toothed quadrants fixed to said movable plates; screws meshing with said quadrants; spindles fixed to said screws; and means for operating said spindles for imparting the required direction to the air streams flowing through said mouths.

1,381,055. MACHINE FOR THE MANUFACTURE OF BOTTLE-CLOSURES. JOHN BINDER, New York, N. Y., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 26, 1919. Serial No. 347,479. 8 Claims. (Cl. 113—80.)



1. In a machine for the manufacture of bottle closures of the cap variety, a rotary body adapted to receive assembled closures, spring-pressed plungers slidably arranged on said body for applying pressure to the closures, and means carried by said plungers for entering the closures in relation to said plungers before the latter are moved toward the closures.

1,381,056. DOMESTIC REFRIGERATING APPARATUS. RICHARD MATHEW BLAKELY, Dayton, Ohio. Filed Dec. 21, 1917. Serial No. 208,256. Renewed June 28, 1920. Serial No. 392,517. 8 Claims. (Cl. 62—116.)



1. A refrigerating apparatus comprising in combination, a motor, a compressor having its shaft coupled directly to the motor, a condenser coil coaxial with the shaft of the compressor, a fan on the compressor shaft for circulating air about the condenser coil, and an absorber coil interposed between the condenser coil and the compressor.

2. A refrigerating apparatus comprising in combination, a housing, a motor in said housing, a compressor in the housing having its driving shaft coupled directly to the shaft of the motor, a condenser coil within the housing coaxial with the compressor shaft, a fan on the compressor shaft, said housing having an inlet and an outlet for the air, means in said housing for supplying moisture to the air coming into the housing, and an absorber coil interposed between the condenser coil and the compressor.

3. A refrigerating apparatus comprising in combination, a housing, a motor in the housing, a compressor in the housing coupled directly to the motor, a condenser coil, a fan between the compresser and motor for circulating air about the coil, said housing having an air inlet and an air outlet, means in the housing associated with the air inlet for supplying moisture to the air as it enters the housing, and an absorber coil interposed between the condenser coil and the compressor.

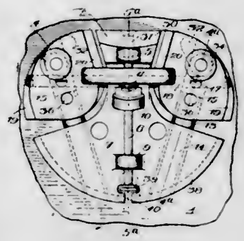
4. A refrigerating apparatus comprising in combination, a housing having an air inlet and an air outlet, a motor in the housing, a compressor in the housing coupled to the motor, a condenser coil in the housing, a fan for circulating the air through the inlet and the outlet of the housing and about the coil, baffles associated with the inlet and outlet to deaden the noise produced in the housing by the moving parts, and an absorber coil interposed between the condenser coil and the compressor.

5. A refrigerating apparatus comprising in combination, a housing lined interiorly with sound insulating means, said housing having an air inlet and an air outlet, baffles in said air inlet and air outlet, a motor in the housing, a compressor in the housing coupled to the motor, a condenser coil, a fan for circulating the air through the inlet and outlet of the housing and about the condenser coil, and an absorber coil interposed between the condenser coil and the compressor.

1,381,057. PROCESS FOR THE PRODUCTION OF A CRYSTALLIZED ESTER OF THE STEARO-RICINATE-DIIODID. FRIEDRICH BOEDECKER, Britz, near Berlin, Prussia, Germany. Filed July 9, 1920. Serial No. 395,138. 2 Claims. (Cl. 23—24.)

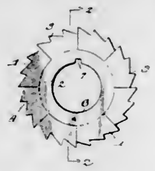
1. A crystalline ester of stearo-ricinate-diiodid having valuable therapeutic qualities, the ester being the ethyl-ester of stearo-ricinate-diiodid.

1,381,058. NECKBAND-EXPANDING DEVICE. CHARLES L. BRALEY, Cincinnati, Ohio, assignor to The American Laundry Machinery Co., Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 20, 1915, Serial No. 3,210. Renewed Apr. 17, 1917. Serial No. 162,754. 10 Claims. (Cl. 68—1.)



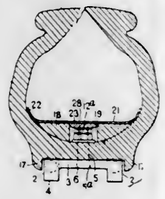
10. The combination with a neckband expanding device, of means carried thereby and movable beneath a portion of a shirt adjacent to the neckband for smoothing the surface of the shirt.

1,381,059. MILLING-CUTTER. AXEL BRASEN, Astoria, N. Y. Filed Apr. 5, 1920. Serial No. 371,359. 1 Claim. (Cl. 29—104.)



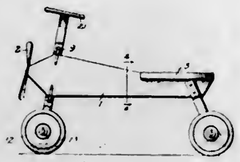
A milling cutter comprising a plurality of sections, each provided with cutting teeth and constructed so as to interlock with each other and to be adjustable with relation to each other for taking different width cuts and each provided with an aperture having a keyway and with one substantially flat face, and means adapted to be inserted betwen the interlocking faces of said sections for maintaining said sections in predetermined spaced relation.

1,381,060. ANTISKID DEVICE. JAMES BRIGGS, Hollings Hill, Esholt, England. Filed Aug. 17, 1920. Serial No. 404,225. 2 Claims. (Cl. 152—16.)



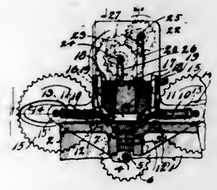
1. An anti-skid pneumatic tire, comprising, in combination, a tire casing, a plurality of metallic tread members located on the tread surface of said casing, bolts paasing through said tread members and the wall of the casing for securing the tread members to the casing, a protecting strip of flexible material within the casing secured along one edge thereof to the wall of said casing and extending circumferentially and transversely thereof thereby to cover the inner ends of said bolts, cushioning means between said strip and the bolts, and cushioning means for supporting said strip circumferentially of the casing and at each side of said bolts.

1,381,061. TOY CAR. ARTHUR C. BROWN and SIDNEY P. SMITH, Norwich, Conn. Filed May 20, 1920. Serial No. 382,955. 5 Claims. (Cl. 208—165.)



1. A toy car comprising a body, four traction wheels, a comparatively rigid frame carrying two of said traction wheels adjacent the front of said body, a single lower pivotal pin connecting said body with said frame, a movable connection between the upper part of the body in said frame, said movable connection permitting the frame to swing laterally and means for connecting two of said traction wheels to said body near the rear thereof.

1,381,062. SHEET-METAL-SEAMING MACHINE. JOHN W. BROWN and WILLIAM HESS, Philadelphia, Pa., assignors, by direct and mesne assignments, to Benjamin P. Obdyke, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed July 10, 1918. Serial No. 244,202. Renewed Mar. 22, 1921. Serial No. 454,418. 2 Claims. (Cl. 113—54.)



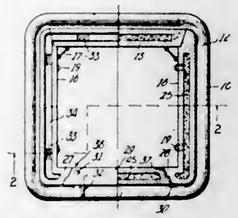
1. In sheet metal seaming machines, the combination with a frame having a slotted supporting table, of a plunger reciprocally-mounted in the slot and adapted to have its upper end move upward beyond the plane of the table and to be sustained in the elevated position in timed relation to movements of other parts, reciprocating folders movably mounted at opposite sides of the plunger when elevated, laterally-disposed tuckers arranged when elevated in the planes of the lower ends of the folders when elevated, and means for moving the tuckers laterally inward toward each other and simultaneously moving the inner portions of the tuckers downward substantially to the plane of the table upon withdrawal of the plunger and folders.

1,381,063. LIVE AXLE AND COUNTERSHAFT FOR MOTOR-VEHICLES. JAMES FRANK BUCKINGHAM, Coventry, England. Filed June 29, 1920. Serial No. 392,615. 2 Claims. (Cl. 74—7.)



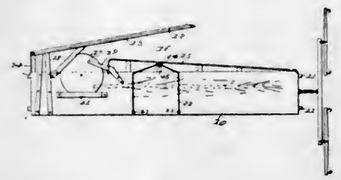
1. In an axle or countershaft, a tubular driving shaft, driving and driven elements attached thereto, said driving shaft being continuous between driven elements, a load carrying shaft frictionally engaging and inclosed within said tubular driving shaft, so that the said shafts revolve as a unit substantially as set forth.

1,381,064. SELF-COOLING SAFE FOR VIANDS. MARIE DIXON, Neutral Bay, near Sydney, New South Wales, Australia. Filed Feb. 18, 1920. Serial No. 359,612. 2 Claims. (Cl. 45—71.)



1. A viand safe constructed of knockdown slabs of concrete with interfitting joints, having cellular cavities packed with absorbent material in the lateral slabs, a marginal water gutter in the bottom slab, and a top vented water reservoir chamber packed with porous material in the cover slab.

1,381,065. SORGHUM-CUTTER. CHARLES DRGAC, Port Lavaca, Tex. Filed Dec. 16, 1919. Serial No. 345,221. 2 Claims. (Cl. 56—100.)



2. A sorghum harvesting apparatus having a platform for movement parallel with a row of stalks and provided at one side with coöperative elements forming a rearwardly contracted throat, cutting mechanism located in the throat, and an ejector having its extremities pivotally connected with the platform on the opposite side from said throat and having an upturned loop, whereby stalks severed by the cutting mechanism may drop on the ejector so that after a sufficient accumulation of the same upon the platform the ejector may be swung laterally of the machine to dump the stalks in bundles.

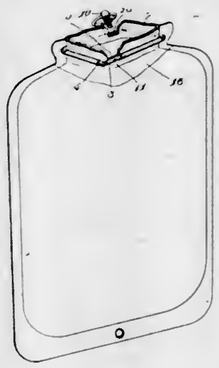
1,381,066. UNION GARMENT. LEO THOMAS DWYER, Fairfield, Ill., assignor to Sexton Mfg. Co., Fairfield, Ill. Filed May 18, 1920. Serial No. 382,494. 2 Claims. (Cl. 2—144.)



1. In a union undergarment, comprising a front, legs, an upper back portion and a sanitary flap forming side openings with the said legs, said front having button holes adjacent the openings, tabs attached to the said front at the waist line thereof adjacent the said side openings and extending over the button holes of the front, each tab being adapted to support a garter attaching means and each tab having a buttonhole registering with the buttonhole in the said front for the passage of a hose supporter from within the garment to be fastened to the tab by the said garter attaching means.

1,381,067. WATER-PILLOW. IWAO EGUCHI, Tokyo, Japan. Filed Dec. 27, 1917. Serial No. 209,199. 1 Claim. (Cl. 150—6.)

The combination with a flexible receptacle having a flexible neck with a plurality of notches provided in the mouth of the same, of a series of links surrounding said neck and having their ends pivotally connected together and forming a parallelogram, a locking member pivotally mounted on one of said links and provided with a locking screw adapted to engage another one of said links, and



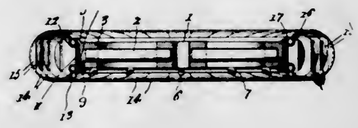
means provided on the last named link for receiving the end of said screw, said locking member in locked position resting in the notches in the mouth of said receptacle.

1,381,068. IRONING-BOARD. JOHN D. EICHELBERGER, St. Louis, Mo., assignor of one-fourth to Edward J. Damm, St. Louis, Mo. Filed Oct. 2, 1919. Serial No. 328,039. 2 Claims. (Cl. 68—10.)



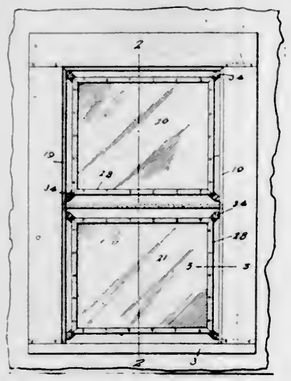
1. An ironing board having foldable and extensible legs at one end thereof and having longitudinally disposed grooved strips on the under side thereof and foldable and extensible legs at the other end thereof, said legs having portions engaging the grooves in said strips whereby said legs are slidably held, and means for clamping said ironing board to a table or the like.

1,381,069. RESILIENT METAL TIRE. ERNEST ENOS, Tampa, Fla. Filed Jan. 5, 1920. Serial No. 349,517. 1 Claim. (Cl. 152—8.)



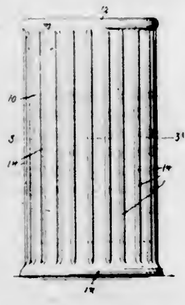
A spring wheel comprising a felly, a rim detachably mounted on said felly and provided with a channel at each side thereof, and a series of abutting spring plates each bent substantially in the form of a horseshoe in transverse section, and each plate provided with enlarged ends adapted to engage in said channels, and with inwardly projecting ribs formed on each side of and integral with the central portion of the plate, the outer faces of said ribs bearing against the corresponding faces of the ribs on the adjacent plates, whereby the tread portion of the plates is reinforced and stiffened, and the spring effect of said plates is secured by the sides thereof, substantially as described.

1,381,070. WINDOW. HENRY FERR, Mason City, Iowa. Filed May 8, 1920. Serial No. 379,893. 6 Claims. (Cl. 189—75.)



1. The combination; a metal casing and metal sashes slidable therein, integral beads on the casing, said sashes having certain of their outer edges bent upon themselves to provide grooves to receive certain of the beads, angle plates on the meeting rails of the sashes, and interengaging means between said plates designed for coengagement when the plates are brought together.

1,381,071. BOTTLE-HOLDER. CATHERINE FLANNERY, Hornell, N. Y. Filed Aug. 4, 1920. Serial No. 401,138. 2 Claims. (Cl. 215—12.)



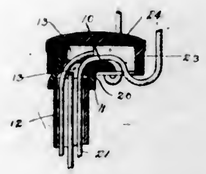
2. A bottle holder comprising an envelop of flexible material open at one end and having an enlarged reinforcing rim encompassing the open end and a flange extending in advance of the closed end, the sides of the envelop being irregular in outline to prevent rolling when laid on the side.

1,381,072. ADJUSTABLE HINGE. JOHN H. KERSTETTER, State College, Pa. Filed Nov. 5, 1920. Serial No. 422,067. 1 Claim. (Cl. 16—112.)



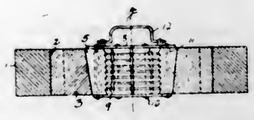
The combination with a door frame and a door, of a supporting hinge for said door, said hinge comprising a pair of hingedly connected leaves, one of said leaves having threaded therein spaced adjusting screws, a plate disposed between the door frame leaf and the frame and engaged by the adjusting screws, securing screws passing through the adjusting screw leaf and the adjusting screw plate, said adjusting screw extending a substantial distance above the leaf carried by the frame, the door leaf of the hinge being provided with apertures registering with apertures in the edge of the door, said apertures being so positioned that when the door is closed they will receive the outer end of the adjusting screws, said apertures in the edge of the door forming means whereby the outer ends of the adjusting screws may project through and beyond the inner face of the door carried leaf and also forming means whereby a maximum range of adjustability of the adjusting screws may be obtained.

1,381,073. CONDUIT-END PROTECTOR. FREDERICK I. JOHNSON, Warren, R. I. Filed Oct. 16, 1917. Serial No. 196,936. 1 Claim. (Cl. 247—6.)



A conduit-end protector comprising a substantially disk-shaped body member having a conduit-receiving neck through which the wires are led, said neck being offset to one side of the center of said body, the diameter of the opening in said neck beyond the end of the conduit being substantially equal to the inner diameter of the conduit, said body being of a substantial thickness and provided with one or more radially disposed wire-receiving grooves in its upper face communicating with said opening, and the edge of said body at the outer end of said grooves being notched to permit the wires to be led out downwardly therethrough, the periphery of said body about the notched edge being threaded, and a cap having its outer wall internally threaded to be screwed onto the said threaded edge of said body member after the wires have been positioned therein.

1,381,074. PIPE-ENGAGING SLIP FOR ROTARIES. GERALD R. LIVERGOOD, Houston, Tex., assignor of one-half to Charles Snell, Houston, Tex. Filed Sept. 20, 1920. Serial No. 411,605. 10 Claims. (Cl. 24—263.)

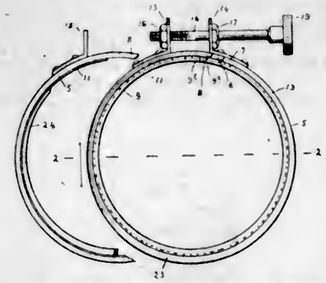


1. A pipe engaging slip, including a cage composed of upper and lower arcuate plates, arcuate pipe engaging jaws between said plates and bearing rods passing through said jaws and anchored at their respective ends to the corresponding plates.

1,381,075. PISTON-RING GAGE. JAMES R. LOUDEN, Utica, N. Y. Filed July 17, 1919. Serial No. 311,569. 7 Claims. (Cl. 33—179.)

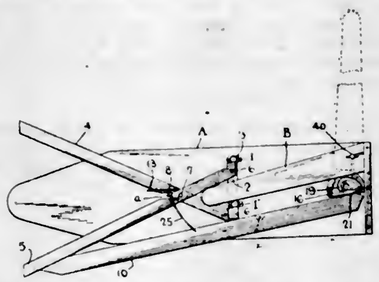
1. A piston ring gage comprising a split ring adapted to be contracted circumferentially and maintain its circularity and adjusting means connected to the ends of the ring to so contract the ring and positively hold it at

desired size, the interior face of said ring being adapted to receive a split piston ring and temporarily contract the



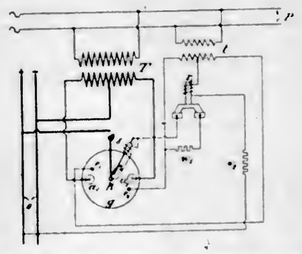
same to the diameter of the measuring inner surface of the gage whereby the space between the ends of the piston ring may be accurately measured.

1,381,076. IRONING-BOARD. RAY BURDETTE PALMER, Norwich, N. Y. Filed Mar. 29, 1917. Serial No. 158,401. 5 Claims. (Cl. 68—10.)



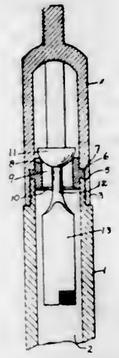
1. The combination with an ironing board, of a supporting frame comprising two members secured crosswise, said members having a seat formed in the under crotch, means for pivotally connecting said crosswise secured members at their upper ends to said ironing board, a supporting bar arranged to rest in said seat, a pin for pivotally securing said bar to said frame, a disk pivotally secured to the under face of said ironing board having an arcuate slot, a guide stem held below said plate, and a member slidably held on said guide stem, and guided within said slot and secured to said bar whereby on turning said plate said member is carried backward or forward to raise or lower said ironing board, as and in the manner set forth.

1,381,077. AUTOMATIC-STARTING APPARATUS FOR METAL-VAPOR RECTIFIERS. BÉLA BENÖ SCHÄFER, Baden, Switzerland, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Filed July 14, 1920. Serial No. 396,297. 2 Claims. (Cl. 175—354.)



1. A metal vapor rectifier including a fixed metal container, an anode, a cathode, a movable ignition anode and a solenoid operated by alternating current to move said ignition anode relatively to the said container, and means for automatically opening the circuit of the energizing coil, of said solenoid subsequently to the closure of the primary alternating circuit and automatically closing said energizing coil circuit subsequently to the opening of the primary alternating circuit.

1,381,078. VALVE FOR PUMPS. MILES SHEVLIN, Houston, Tex., assignor to W. L. Drake, Des Moines, Iowa. Filed June 10, 1920. Serial No. 388,023. 2 Claims. (Cl. 251—129.)

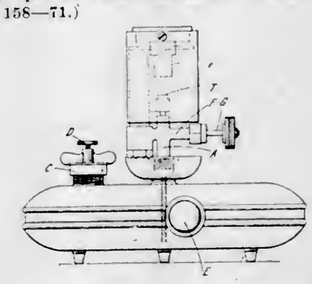


1. In a pump, the combination of a pump plunger, a valve seat therein, an upwardly opening valve thereon, said valve having its top flat and its lower face shaped to fit within said seat, a stem secured centrally to said lower face, a blade thereon within said plunger, the said blade being straight and balanced and having its lower end beveled in opposite directions to cause the rotation thereof.

1,381,079. PROCESS FOR TREATING MEAL OR FLOUR AND MILLING PRODUCTS. EGBERT CORNELIS SUTHERLAND, Deventer, Netherlands, assignor to Naamlooze Vennootschap Industrieele Maatschappij voorheen Noury & van der Lande, Deventer, Netherlands, a Corporation of the Netherlands. Filed Mar. 25, 1918. Serial No. 224,680. 5 Claims. (Cl. 83—42.)

2. In the process of treating flour, meal and other milling products, the improvement which comprises subjecting the said material to the action of chlorin in amount sufficient to react upon the enzyms present, thereafter treating such material with a peroxid compound, and finally subjecting the mass to conditions capable of decomposing said peroxid compound.

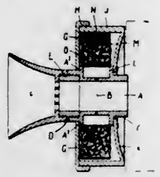
1,381,080. BURNER FOR BURNING OIL AND OTHER LIQUID FUEL. EDWIN CLEARY, London, England. Filed Apr. 15, 1920. Serial No. 374,138. 4 Claims. (Cl. 158—71.)



1. A burner for liquid fuel, comprising an annular metal plate, a vertical tubular conduit or vessel thermally

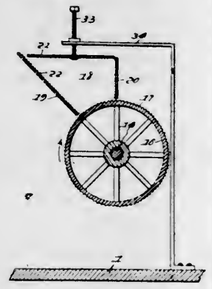
connected at its upper end to said plate and having an inlet for liquid fuel at its lower end, metal packing in the middle and lower parts of said vessel, a substantially horizontal unpacked conduit thermally connected to said annular plate and communicating at one end with the upper end of the vertical conduit, a second vertical conduit extending down from said annular plate and communicating at its upper end with the other end of said horizontal conduit, a nozzle connected to the lower end of the second vertical conduit, an injector tube removably arranged in opening of said annular plate and having its lower open end in register with said nozzle, a mixing box mounted on and communicating with the upper end of said injector tube and having flame-apertures in its upper part, the lower wall of said mixing box being arranged at a short distance above the annular plate and being provided with flame-apertures directed toward said plate, and a valve arranged in the heating conduit formed by the two vertical conduits and the horizontal conduit connecting their upper ends.

1,381,081. DEVICE FOR USE IN DISINFECTING TELEPHONE INSTRUMENTS. ROBERT COOPER, London, England. Filed Nov. 16, 1920. Serial No. 424,410. 3 Claims. (Cl. 179—185.)



1. A device for disinfecting telephones, comprising an annular casing formed of separable members, an annular absorbent pad in said casing, said pad comprising concentric perforated tubes having absorbent material in the annular space between them, means for supporting said pad concentrically in said casing, and means for securing the device to a mouthpiece and to a telephone instrument.

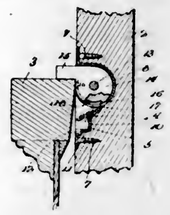
1,381,082. METHOD AND APPARATUS FOR BLANCHING PEANUTS. GEORGE J. CORPORON, Amesbury, Mass. Filed Nov. 13, 1920. Serial No. 423,816. 11 Claims. (Cl. 146—14.)



1. A method of blanching nuts consisting in utilizing centrifugal force to repeatedly throw the nuts against roughened surfaces which cause the skins to be separated from the nuts, and simultaneously moving the nuts along an inclined plane.

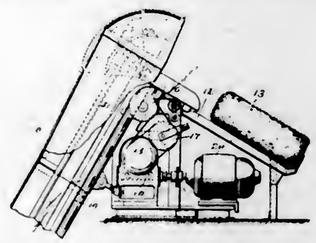
1,381,083. WINDOW-STOP. EDWARD E. CRAWFORD, Bremerton, Wash. Filed May 27, 1920. Serial No. 384,675. 1 Claim. (Cl. 292—209.)

A device for the purpose set forth comprising a casing having an upper circular chamber with an upper tangential wall extending to the front face of the casing and a lower inclined tangential wall terminating short of the face of the casing, the casing being constructed to present a recess extending downwardly from the terminal of the lower tangential wall, a transverse shoulder at the upper terminal of the lower tangential wall, a stop pivotally mounted in the upper portion of the casing and comprising a circular body concentric with the pivot, and a tooth projecting tangentially from said circular body and



adapted to impinge against the upper tangential wall of the casing or to be housed within the downwardly extending recess, the circular body of the stop being provided with a peripheral recess, and a resilient detent secured at one end in the said recess and having its other end free to engage the transverse shoulder on the lower tangential wall of the casing or to be housed within said peripheral recess and frictionally engage the rear arcuate wall of the casing.

1,381,084. AMMUNITION-HOIST. ELMER D. CUMMINGS, Washington, D. C. Filed Aug. 31, 1920. Serial No. 407,266. 10 Claims. (Cl. 187—13.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A hoist including an endless cable, a grip car, a grip for engagement with the cable, means operable to automatically release the grip, a brake, and means operable to engage the brake with the cable to move the car in an opposite direction.

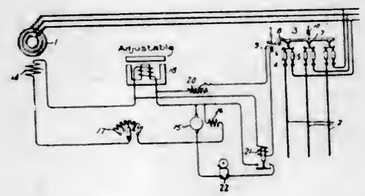
1,381,085. COATING METALS. CHRISTIAN DANTSIZEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1919. Serial No. 335,090. 8 Claims. (Cl. 91—70.2.)

1. The process of treating metals to render them inoxidizable at high temperatures which consists in thoroughly cleaning the surfaces of the article to be treated, coating the surface with metal having a relatively low fusing point, then dipping in molten aluminum and firing at a relatively high temperature.

1,381,086. APPARATUS FOR PROTECTING THE FIELD STRUCTURE AND WINDINGS OF DYNAMO-ELECTRIC MACHINES. WILLIAM F. DAWSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 16, 1919. Serial No. 304,718. 7 Claims. (Cl. 175—294.)

2. In combination, a polyphase distribution circuit, a polyphase generator supplying electrical energy thereto,

and means responsive to the current produced by the voltage induced in the field windings of said machine by a



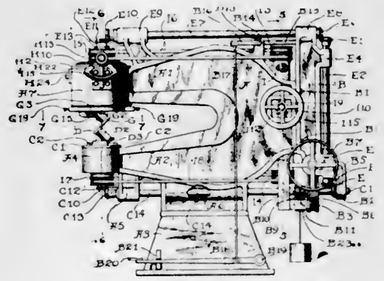
predetermined unbalancing of the phases for disconnecting said generator from said distribution circuit.

1,381,087. PRODUCTION OF PACKAGES. HILARION DE ESCOBALES, Staten Island, N. Y., assignor to H. Escobales Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 22, 1918. Serial No. 250,924. 21 Claims. (Cl. 229—87.)



1. Commodity packaging means comprising a wrapping consisting of inner and outer flexible wrapping elements and an interposed stiffening element, the portions of the inner wrapping element located at the sides of the package being entirely within the outer wrapping element, said stiffening and inner wrapping elements being fixedly positioned against relative movement by the application of the outer wrapping element.

1,381,088. MACHINE FOR CUTTING SHEET-FORM MATERIAL. CHARLES B. GRAY, Knoxville, Tenn. Filed Mar. 26, 1919, Serial No. 285,341. Renewed Feb. 5, 1921. Serial No. 442,887. 21 Claims. (Cl. 164—63.)



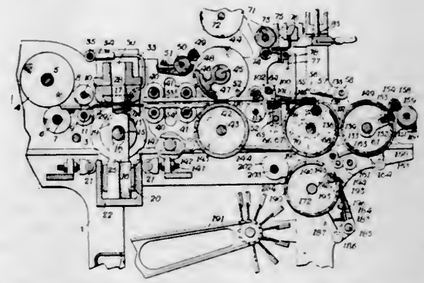
1. In a machine of the nature described, the combination of an upper and lower rotary turret structure, located on a common axial line, a pair of rotary cutters having their edges meeting in said axial line, an oblique shaft supported on the lower turret structure and supporting one of said cutters, and an oblique shaft supported on the upper turret structure and supporting the other of said cutters, and means for driving one of said shafts, substantially as described.

1,381,089. RADIO RECEIVING SYSTEM. HAROLD H. BEVERAGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 10, 1920. Serial No. 372,933. 14 Claims. (Cl. 250—33.)



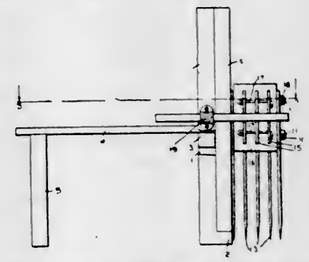
1. A horizontal receiving antenna having distributed constants of such values that electric waves produced therein by desired signaling waves will be propagated along its length at substantially the same velocity as that at which the desired signaling waves travel along its length in the ether.

1,381,090. MACHINE FOR MAKING WINDOW-ENVELOPS. SAMUEL FURMAN, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Continuation of application Serial No. 45,506, filed Aug. 14, 1915. This application filed Aug. 24, 1917. Serial No. 187,980. 26 Claims. (Cl. 93—61.)



1. A machine for making window envelops, comprising a support for an envelop blank, a suction member adapted to apply a patch of transparent paper to said blank on said support, a stripping plate adapted to strip said patch from said suction member and to deposit said patch on said blank, a pair of folding plates adapted to fold the side flaps of the blank over said stripping plate, and means for actuating said suction member, said stripping plate and said folding plates.

1,381,091. SLICING-MACHINE. GUSTAF E. SANDBECK, New York, N. Y. Filed Aug. 18, 1920. Serial No. 404,385. 4 Claims. (Cl. 146—12.)



1. A slicing device comprising a food supporting means, a knife frame slidably mounted on said means, supporting rods carried by said frame, a plurality of substantially triangular shaped knife blades mounted on said rods, spacing elements having relatively spaced slots receiving the knives to hold said knives in spaced relation, and tie means for said knives.

1,381,092. GAS-DEFLECTOR. WILLIAM T. KOLVA, Vineland, N. J. Filed May 1, 1920. Serial No. 378,048. 1 Claim. (Cl. 158—113.)



A burner attachment comprising a cone-shaped plate provided at its center and at the apex of the cone with a stellaform opening and provided at its under side with radially disposed ribs which are located between the outer ends of the points of the opening.

1,381,093. RHEOSTAT. CHESTER H. TEEGARDEN, Washington, D. C. Filed Oct. 18, 1918. Serial No. 258,752. 8 Claims. (Cl. 219—48.)



1. A rheostat comprising a U-shaped frame, a pair of impedance elements supported side by side across the open end of said frame, a lever pivoted in said frame at the base thereof, two contact arms carried by said lever on opposite sides thereof, each contact arm being positioned to make wiping contact over the outer side of one of said impedance elements, and an insulating segment interposed in each impedance element to insulate that element from the arm at that point.

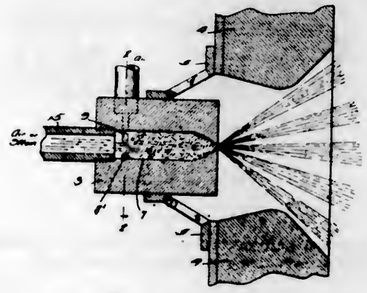
1,381,094. TIRE. ALBERT L. AUSTIN, Cleveland, Ohio, assignor to The Standard Tire Protector Company, Cleveland, Ohio, a Corporation of Delaware. Filed July 21, 1919. Serial No. 312,412. 9 Claims. (Cl. 152—17.)



9. In a protective device for pneumatic tires, a supplemental sectional rim provided with a hook-shaped flange curved to engage a tire heel member of a tire casing, said flange terminating in spaced projections adapted to engage the heel portion of a casing of the straight side type.

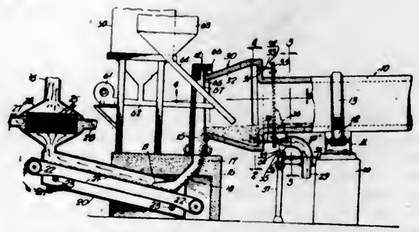
1,381,095. FUEL-OIL BURNER. FLETCHER C. STARR, Philadelphia, Pa. Filed Mar. 27, 1920. Serial No. 369,321. 6 Claims. (Cl. 158—73.)

2. An oil atomizing burner, comprising a body or casing having an axially disposed atomizing and mixing chamber, alternately arranged tangential oil and air inlet ports entering said chamber and so disposed that the air jets will impinge directly upon the entering oil and an axially disposed inlet in the rear of said ports through which a



stream of air or steam may be injected to exert an impelling pressure upon the rotating mixture of air and oil issuing from said ports.

1,381,096. ROTARY FURNACE OR KILN. GEORGE F. DOWNS, Buffalo, N. Y. Filed June 19, 1920. Serial No. 390,242. 29 Claims. (Cl. 263—33.)



1. In a furnace of the kind described, a rotating cylinder, said cylinder being enlarged in the twyer area to provide a sintering chamber of diameter greater than the diameter of the rest of the furnace chamber.

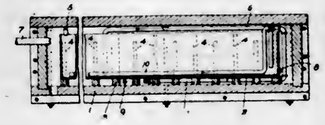
REISSUES.

15,118. TICKET-CASE. JOHN J. CARR, Yonkers, N. Y. Filed Apr. 16, 1921. Serial No. 462,049. Original No. 1,373,797, dated Apr. 5, 1921, Serial No. 189,976, filed Sept. 6, 1917. 8 Claims. (Cl. 211—31.)



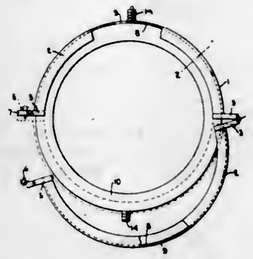
3. A device of the character described comprising, a holder for a strip of tickets, said strip being provided with slots intermediate the successive tickets, said slots being elongated and spaced from the side edges of the ticket strip, a dispenser for the tickets, and a spring-actuated finger located behind the dispenser and having a relatively wide nose normally passing through one of said slots for arresting the movement of the strip and facilitating the removal of a ticket therefrom, the said nose normally projecting in front of the dispenser so that, in the natural act of placing the operator's thumb upon the ticket to withdraw it from the dispenser, the thumb will engage the said nose and temporarily depress it for permitting the withdrawal of a ticket.

15,119. METHOD OF AND APPARATUS FOR RECLAIMING SPENT PICKLING SOLUTIONS. HENRY S. MARSH and RALF S. COCHRAN, Youngstown, Ohio. Filed Mar. 28, 1921. Serial No. 456,205. Original No. 1,369,451, dated Feb. 22, 1921, Serial No. 350,383, filed Jan. 9, 1920. 14 Claims. (Cl. 23—1.)



14. The method herein described of treating a solution which consists in causing the solution to flow counter current in loop form, the branches of the loop in heat interchanging relation one to the other, and cooling the stream at the turn of the loop.

15,120. TIRE-VULCANIZING DEVICE. FRED BROWN PFEIFFER, Akron, Ohio. Filed Apr. 21, 1921. Serial No. 463,361. Original No. 1,327,841, dated Jan. 13, 1920, Serial No. 233,496, filed May 9, 1918. 5 Claims. (Cl. 18—38.)



1. In a device of the class described, an annular mold; a flexible hollow annular casing disposed within the mold, the casing being trough-shaped in cross section to receive a tire, and being made partly of metal to conduct heat; means for supplying a fluid under pressure to the interior of the casing, and means for heating the fluid prior to its introduction into the casing.

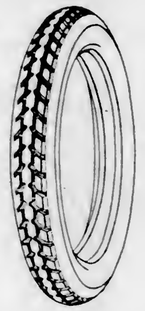
2. In a device of the class described, a rigid outer sheath, surrounding a tire but spaced therefrom, a flexible hollow casing between the sheath and the tire, means to supply fluid under pressure to the casing and means to heat the tire while under pressure.

3. In a device of the character described, a rigid outer sheath substantially trough-shaped in cross-section, a flexible hollow casing within the sheath adapted to receive a tire, a support for the interior of the tire, means to supply fluid under pressure to the casing and means to heat the tire while under pressure.

4. In a device of the character set forth, an outer sheath, the interior surface of which is substantially trough-shaped in cross section, a flexible hollow casing within the sheath adapted to receive a tire, a support for the interior of the tire, means to supply fluid under pressure to the casing and means to heat the tire while under pressure.

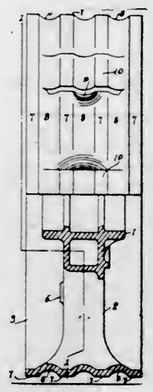
5. In an apparatus for vulcanizing tires, a rigid core for supporting the interior of the tire, a flexible and expansible casing on the outside of the tire, means for expanding the said casing to hold the tire under pressure and means for heating the tire while so held.

15,121. DESIGN FOR A VEHICLE-TIRE. BENJAMIN H. PRATT, Milwaukee, Wis., assignor to The Federal Rubber Company, Cudahy, Wis., a Corporation of Massachusetts. Filed Feb. 5, 1921. Serial No. 442,940. Term of patent 14 years. Original No. 52,116, dated June 18, 1918, Serial No. 208,525, filed Dec. 22, 1917, for 3½ years.



The ornamental design for a vehicle tire substantially as shown.

15,122. CAST-METAL WHEEL. GEORGE WALTHER, Dayton, Ohio. Filed Nov. 3, 1920. Serial No. 421,596. Original No. 1,283,995, dated Nov. 5, 1918, Serial No. 144,101, filed Jan. 24, 1917. 5 Claims. (Cl. 301—65.)



1. A metal wheel, the hub, spokes and rim of which consist of one integral casting and the hub and spokes thereof being hollow, the rim being of a single thickness of metal and provided with annular corrugations throughout its circumference, substantially as described.

2. In a metal wheel, hub, spokes and a rim, spaced bridges on said rim, separated by apertures communicating with the spoke ends, said bridges having portions of their surfaces depressed below the general level of the rim.

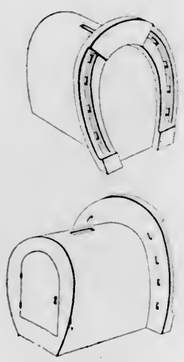
3. In a metal wheel, a rim with portions thereof below the surface of the rim and portions level with the surface of the rim.

4. In a metal wheel, a hub, spokes and a rim, spaced bridges on said rim separated by apertures communicating with the spoke ends, said bridges having a portion of their surface level with the outer surface of the rim and a portion of their surface below said rim surface, the bridges being supported by the side walls only of the rim.

5. In a metal wheel, a hub, spokes and a rim, spaced bridges on said rim separated by apertures communicating with the spoke ends, said bridges having a plurality of corrugations disposed circumferentially parallel to one another with portions of said corrugations below the general surface of the periphery of the rim.

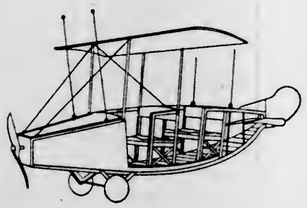
DESIGNS.

58,055. CHILD'S BANK. GEORGE W. ALEXANDER, Brooten, Minn. Filed Mar. 8, 1921. Serial No. 450,641. Term of patent 14 years.



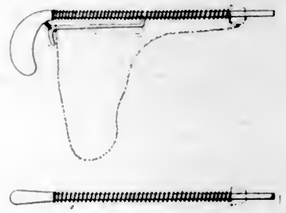
The ornamental design for a child's bank as shown.

58,056. AMUSEMENT AEROPLANE. REUBEN N. ANDERSON, Youngstown, Ohio. Filed Feb. 21, 1921. Serial No. 446,962. Term of patent 7 years.



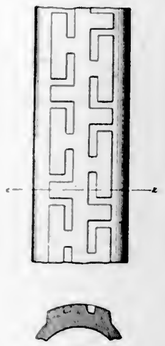
The design for an amusement aeroplane, as shown.

58,057. TOY SMALL-ARM. CHARLES WILLIAM BEISER, Brooklyn, N. Y., assignor to American Soldier Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 17, 1920. Serial No. 424,794. Term of patent 14 years.



The ornamental design for a toy small arm, as shown.

58,058. VEHICLE-TIRE. EDGAR OLIVER BLEKRE, Minneapolis, Minn. Filed Dec. 15, 1920. Serial No. 430,974. Term of patent 7 years.



The ornamental design for a vehicle tire, as shown.

58,059. PEDESTAL. MANUEL BLICKMAN, New York, N. Y., assignor to Sophia Blickman, Brooklyn, N. Y. Filed June 4, 1920. Serial No. 386,601. Term of patent 14 years.



The ornamental design for a pedestal as shown.

58,060. PEDESTAL. MANUEL BLICKMAN, New York, N. Y., assignor to Sophia Blickman, Brooklyn, N. Y. Filed June 4, 1920. Serial No. 386,602. Term of patent 14 years.



The ornamental design for a pedestal as shown.

58,061. ARM FOR A PORTABLE LIGHTING-FIXTURE. MICHAEL B. BOWEN, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,560. Term of patent 7 years.



The ornamental design for an arm for a portable lighting fixture, as shown.

58,062. ARM FOR A PORTABLE LIGHTING-FIXTURE. MICHAEL B. BOWEN, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,561. Term of patent 7 years.



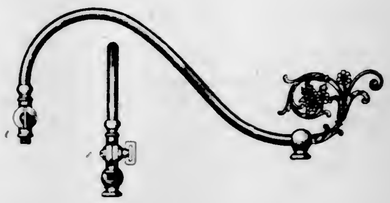
The ornamental design for an arm for a portable lighting fixture, as shown.

58,063. ARM FOR A PORTABLE LIGHTING-FIXTURE. MICHAEL B. BOWEN, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,562. Term of patent 7 years.



The ornamental design for an arm for a portable lighting fixture, as shown.

58,064. ARM FOR A PORTABLE LIGHTING-FIXTURE. MICHAEL B. BOWEN, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,563. Term of patent 7 years.



The ornamental design for an arm for a portable lighting fixture, as shown.

58,065. SEAT-BODY FOR CHILDREN'S VEHICLES. HARRISON D. BOYER, Philadelphia, Pa. Filed Nov. 6, 1920. Serial No. 422,404. Term of patent 14 years.



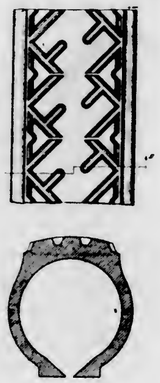
The ornamental design for seat-body for children's vehicles, as shown.

58,066. ELECTRICAL ADAPTER. RUDOLF P. BRIESEMEISTER, New York, N. Y. Filed Dec. 31, 1920. Serial No. 434,372. Term of patent 3½ years.



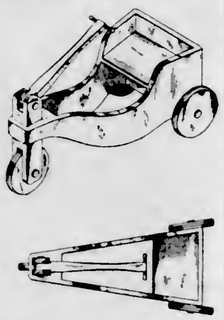
The ornamental design for an electrical adapter as shown.

58,067. TIRE. ABRAHAM K. BRILL, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 27, 1920. Serial No. 433,499. Term of patent 14 years.



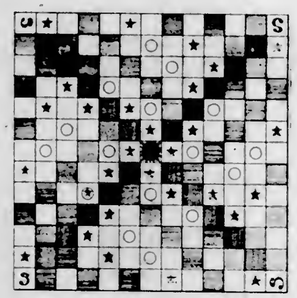
The ornamental design for a tire as shown.

58,068. FOOT-PROPELLED CAR FOR CHILDREN. THEODORE CANNAVARO, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,497. Term of patent 7 years.



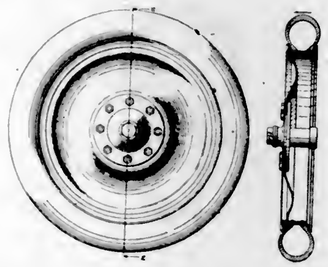
The ornamental design for a foot propelled car for children as shown.

58,069. GAME-BOARD. WALTER C. CARTER, Pittsburgh, Pa. Filed Oct. 11, 1920. Serial No. 416,333. Term of patent 7 years.



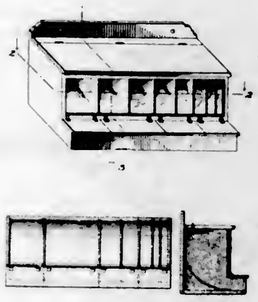
The ornamental design for a game board, as shown.

58,070. AUTOMOBILE DISK WHEEL. FRED S. CARVER, East Orange, N. J. Filed Sept. 15, 1920. Serial No. 410,555. Term of patent 14 years.



The ornamental design for an automobile disk wheel, as shown.

58,071. CORK-CABINET. HARRY COPELAND, Columbus, Nebr. Filed Oct. 26, 1920. Serial No. 419,740. Term of patent 7 years.



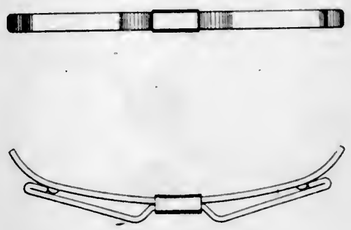
The ornamental design for a cork cabinet, as shown.

58,072. TALCUM-POWDER BOX. HARRY R. COREY, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 30, 1919. Serial No. 307,854. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,073. COLLAR-HOLDER. ALFRED D. CROSBY, Attleboro, Mass. Filed Jan. 17, 1921. Serial No. 438,026. Term of patent 3½ years.



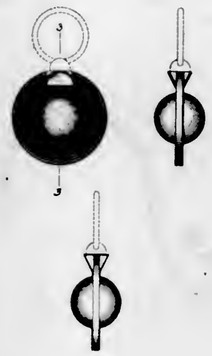
The ornamental design for a collar holder, as shown.

58,074. LEG FOR CANDLESTICKS OR OTHER PORTABLE LAMPS. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Oct. 23, 1920. Serial No. 419,099. Term of patent 3½ years.



The ornamental design for a leg for candlesticks or other portable lamps, as shown.

58,075. TEETHING-RATTLE. JOSEPH DAVIS, Newark, N. J., assignor to The Insel Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 9, 1921. Serial No. 450,972. Term of patent 7 years.



The ornamental design for a teething rattle, as shown.

58,076. COMBINED SNAP-SWITCH AND PLUG-CONNECTOR. FRANK C. DE REAMER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 17, 1920. Serial No. 431,496. Term of patent 14 years.



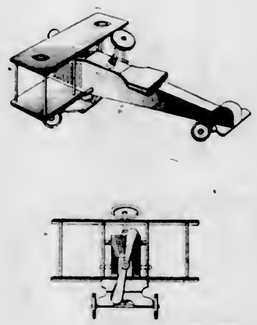
The ornamental design for a combined snap switch and plug connector, as shown.

58,077. BOTTLE. EDWARD ECKL, Los Angeles, Calif., assignor to Los Angeles Brewing Company, Los Angeles, Calif., a Corporation of California. Filed July 30, 1919. Serial No. 314,349. Term of patent 3½ years.



The ornamental design for a bottle as shown.

58,078. TOY AEROPLANE. GEORGE T. FULTON, Grand Island, Nebr. Filed Dec. 15, 1919. Serial No. 345,144. Term of patent 14 years.



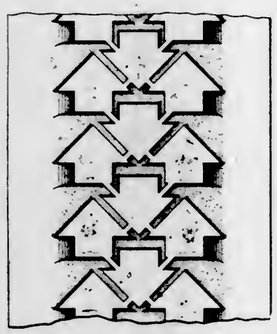
The ornamental design for a toy aeroplane, as shown.

58,079. TOP. JOHN W. GLENN, Buffalo, N. Y. Filed Feb. 23, 1921. Serial No. 447,329. Term of patent 14 years.



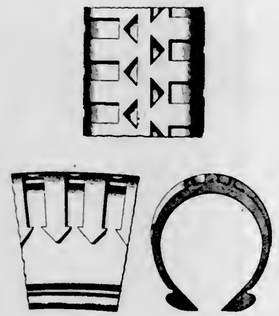
The ornamental design for a top, as shown.

58,080. NON-SKID TREAD FOR AUTOMOBILE-TIRES. ALFRED A. GLIDDEN, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Mar. 15, 1920. Serial No. 366,122. Term of patent 14 years.



The ornamental design for a non-skid tread for automobile tires as shown.

58,081. TIRE-TREAD. ALFRED A. GLIDDEN and GLYNN G. BUELL, Watertown, and ELUE O. FRITCH, Belmont, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Dec. 28, 1920. Serial No. 433,657. Term of patent 14 years.



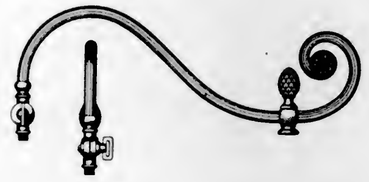
The ornamental design for a tire tread, as shown.

58,082. FACE OF AN ELECTRICAL ATTACHMENT-PLUG DEVICE. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 17, 1920. Serial No. 431,492. Term of patent 14 years.



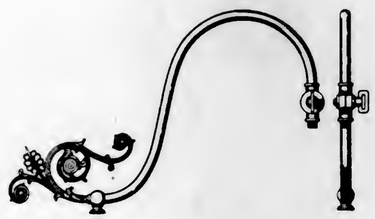
The ornamental design for the face of an electrical attachment plug device, substantially as shown.

58,083. ARM FOR A PORTABLE LIGHTING-FIXTURE. WILLIAM J. GRADY, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,564. Term of patent 7 years.



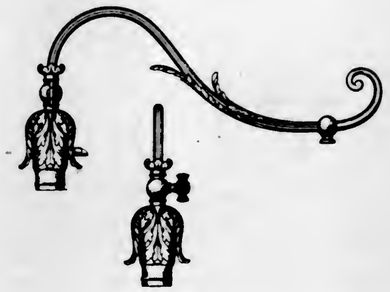
The ornamental design for an arm for a portable lighting fixture, as shown.

58,084. ARM FOR A PORTABLE LIGHTING-FIXTURE. WILLIAM J. GRADY, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,565. Term of patent 7 years.



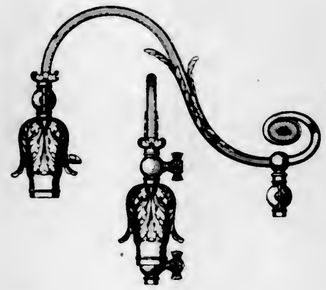
The ornamental design for an arm for a portable lighting fixture, as shown.

58,085. ARM FOR A PORTABLE LIGHTING-FIXTURE. WILLIAM J. GRADY, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,566. Term of patent 7 years.



The ornamental design for an arm for a portable lighting fixture, as shown.

58,086. ARM FOR A PORTABLE LIGHTING-FIXTURE. WILLIAM J. GRADY, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,567. Term of patent 7 years.



The ornamental design for an arm for a portable lighting fixture, as shown.

58,087. ARM FOR A PORTABLE LIGHTING-FIXTURE. WILLIAM J. GRADY, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,568. Term of patent 7 years.



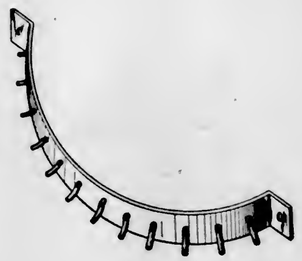
The ornamental design for an arm for a portable lighting fixture, as shown.

58,088. ARM FOR A PORTABLE LIGHTING-FIXTURE. WILLIAM J. GRADY, Decatur, Ill., assignor to Faries Manufacturing Co., Decatur, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,569. Term of patent 7 years.



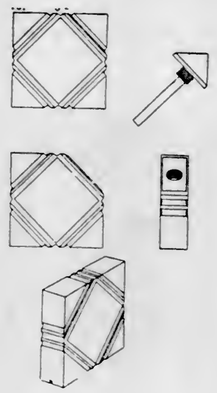
The ornamental design for an arm for a portable lighting fixture, as shown.

58,089. RACK. LAURENCE S. GULICK, Philadelphia, Pa. Filed July 16, 1920. Serial No. 396,846. Term of patent 7 years.



The ornamental design for a rack, as shown.

58,090. BOTTLE OR CONTAINER. MARIE OCTAVIE HAWORTH-BOOTH, London, England. Filed Oct. 13, 1920. Serial No. 416,772. Term of patent 7 years.



The ornamental design for a bottle or container, as shown.

58,091. VACUUM-JACKETED CARAFE. HENRY L. HEISLER, Chicago, Ill. Filed Oct. 1, 1920. Serial No. 414,125. Term of patent 7 years.



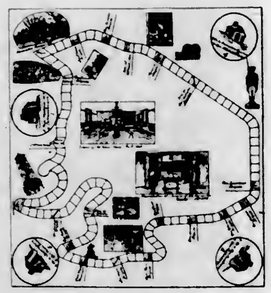
The ornamental design for a vacuum jacketed carafe, as shown.

58,092. ELECTRIC-LIGHTING DEVICE. ADOLPH A. HENKEL, Chicago, Ill., assignor of one-half to Harry A. Best, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,738. Term of patent 3½ years.



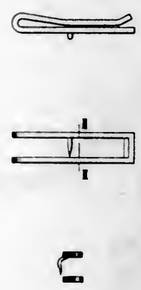
The ornamental design for an electric lighting device as shown.

58,093. GAME-BOARD. FLORENCE DE G. JENKINS, Philadelphia, Pa. Filed Oct. 15, 1920. Serial No. 417,248. Term of patent 7 years.



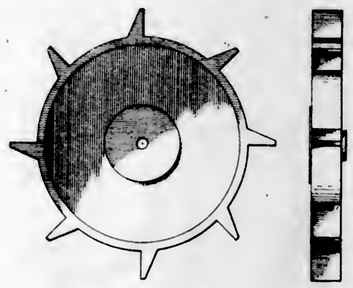
The ornamental design for a game board, as shown.

58,094. CRAVAT-HOLDER. JOSEPH A. MARINER, Chicago, Ill. Filed Aug. 28, 1919. Serial No. 320,538. Term of patent 3½ years.



The ornamental design for a cravat holder, as shown.

58,095. SPARK-GAP ROTOR. RALPH H. G. MATHEWS, Chicago, Ill. Filed July 14, 1920. Serial No. 396,322. Term of patent 7 years.



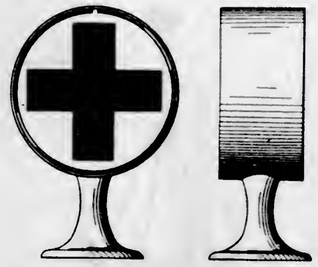
The ornamental design for a spark gap rotor, as herein shown.

58,096. HIGHWAY-SIGNAL. ELOF H. MEDÉN, Short Hills, N. J., assignor to American Gas-Accumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 24, 1920. Serial No. 426,302. Term of patent 14 years.



The ornamental design for a highway signal, as shown.

58,097. PHYSICIAN'S TRAFFIC-SIGNAL. JESSE B. MCAFEE, Dallas, Tex. Filed Jan. 3, 1921. Serial No. 434,819. Term of patent 3½ years.



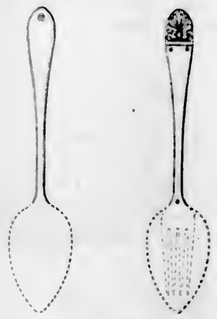
The ornamental design for a physician's traffic signal as shown.

58,098. DISPLAY-FIXTURE. GERTRUDE M. MORRILL, San Francisco, Calif. Filed Mar. 1, 1920. Serial No. 362,566. Term of patent 3½ years.



The ornamental design for a display fixture, as shown and described.

58,099. HANDLE FOR SPOONS, FORKS, OR SIMILAR ARTICLES. LIONEL MOSES, Providence, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 10, 1920. Serial No. 357,685. Term of patent 14 years.



The ornamental design for a handle for spoons, forks, or similar articles, as shown.

58,100. COLLAR-HOLDER. ALFRED J. NEWTON, Providence, R. I. Filed Jan. 3, 1921. Serial No. 434,807. Term of patent 14 years.



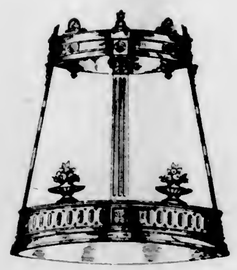
The ornamental design for a collar holder, as shown.

58,101. ADVERTISING-DISK. HOMER HARDCASTLE PENNOCK, New York, N. Y. Filed July 25, 1919. Serial No. 313,314. Term of patent 14 years.



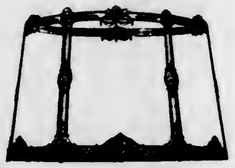
The ornamental design for an advertising disk, as shown.

58,102. LAMP-SHADE. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, New York, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,928. Term of patent 7 years.



The ornamental design for a lamp shade substantially as shown and described.

58,103. LAMP-SHADE. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, New York, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,929. Term of patent 7 years.



The ornamental design for a lamp shade substantially as shown and described.

58,104. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, New York, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,930. Term of patent 3½ years.



The ornamental design for a chandelier substantially as shown and described.

58,105. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, New York, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,931. Term of patent 3½ years.



The ornamental design for a chandelier substantially as shown and described.

58,106. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, New York, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,932. Term of patent 3½ years.



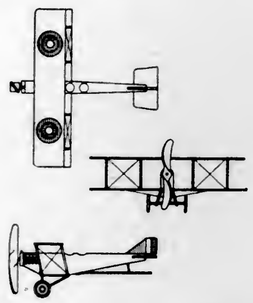
The ornamental design for a chandelier substantially as shown and described.

58,107. CHANDELIER. FREDERICK MAX PORITZ, New York, N. Y., assignor to Star Chandelier Company, New York, N. Y., a Corporation of New York. Filed May 12, 1920. Serial No. 380,933. Term of patent 3½ years.



The ornamental design for a chandelier substantially as shown and described.

58,108. TOY AEROPLANE. GEORGE A. PURCELL, Baltimore, Md. Filed Nov. 23, 1920. Serial No. 426,091. Term of patent 3½ years.



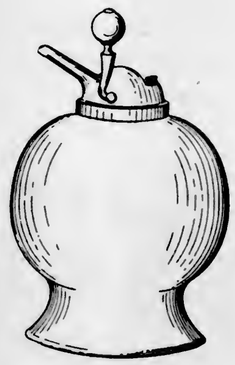
The ornamental design for a toy aeroplane as shown.

58,109. TOY BALLOON. EMMANUEL T. RICHERT, Canton, Ohio. Filed Jan. 31, 1921. Serial No. 441,438. Term of patent 14 years.



The ornamental design for a toy balloon as shown.

58,110. LIQUID-DISPENSER. GEORGE D. SAILER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 395,398. Term of patent 14 years.



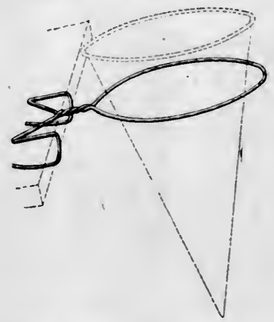
The ornamental design for a liquid dispenser, as shown.

58,111. LIQUID-DISPENSER. GEORGE D. SAILER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 395,399. Term of patent 14 years.



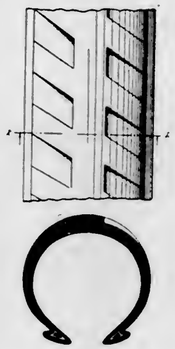
The ornamental design for a liquid dispenser, as shown.

58,112. STRAINER-HOLDER. CHARLES SCHAUMBURG, Park Ridge, Ill. Filed Mar. 29, 1919. Serial No. 286,175. Term of patent 7 years.



The ornamental design for a strainer holder as shown.

58,113. RUBBER-TIRE TREAD. JULES E. SCHNEIDER, Dallas, Tex., assignor to Beach-Wagstaff Rubber Corporation, Dallas, Tex. Filed Feb. 10, 1920. Serial No. 357,686. Term of patent 3½ years.



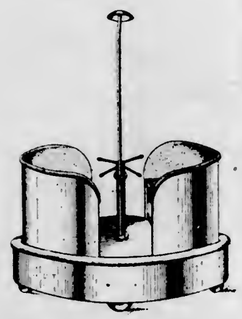
The ornamental design for a rubber tire tread as shown.

58,114. LIGHTING-FIXTURE. WILMER S. SNOW, Chicago, Ill., assignor to National X-Ray Reflector Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1919. Serial No. 316,877. Term of patent 7 years.



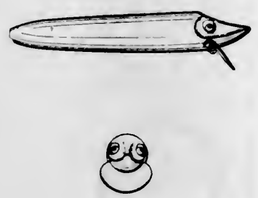
The ornamental design for a lighting fixture, as shown.

58,115. AMUSEMENT-CAR. JOHN J. STOCK, Erdenheim, Pa. Filed Apr. 4, 1921. Serial No. 458,549. Term of patent 14 years.



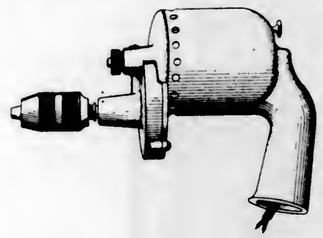
The ornamental design for an amusement car as shown.

58,116. FISH-BAIT BODY. WILLIAM A. STOLLEY, Dowagiac, Mich. Filed Dec. 27, 1920. Serial No. 433,510. Term of patent 14 years.



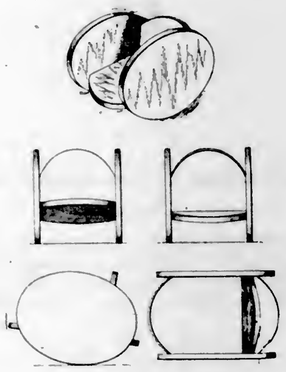
The ornamental design for a fish bait body, as shown.

58,117. ELECTRICALLY-OPERATED HAND-DRILL. ARTHUR H. SWEETLAND, Long Beach, Calif. Filed June 1, 1920. Serial No. 385,838. Term of patent 14 years.



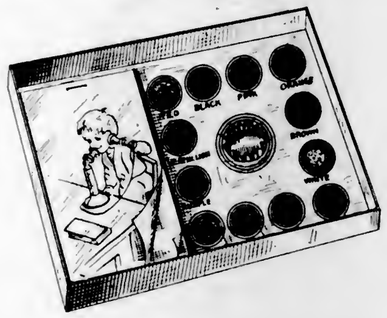
The ornamental design for an electrically operated hand drill, as shown.

58,118. TOY. LAURA TOWNSEND, Boston, Mass. Filed Mar. 21, 1921. Serial No. 454,293. Term of patent 3½ years.



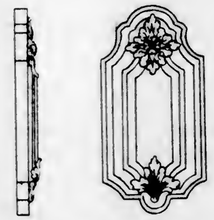
The ornamental design for a toy, as shown.

58,119. TOY PAINTING OUTFIT. NATHAN ULLMAN, New York, N. Y. Filed Mar. 16, 1921. Serial No. 452,768. Term of patent 7 years.



The ornamental design for a toy painting outfit, as shown.

58,120. PLATE FOR LIGHTING-FIXTURES. ERNEST A. WALKER, Newark, N. J., assignor to Arteraft Fixture Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 12, 1920. Serial No. 416,566. Term of patent 7 years.



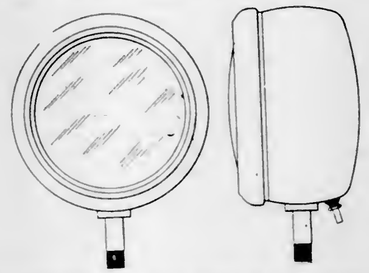
The ornamental design for a plate for lighting fixtures, as shown.

58,121. BOTTLE. THEODORE C. WHEATON, Jr., Washington, D. C., assignor to S. Sternau & Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 5, 1918. Serial No. 257,072. Term of patent 7 years.



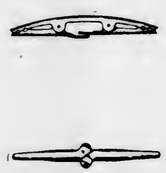
The ornamental design for a bottle, substantially as shown.

58,122. HEADLIGHT. D'ORSAY MCCALL WHITE, Indianapolis, Ind., assignor to La Fayette Motors Company, Indianapolis, Ind., a Corporation. Filed Jan. 23, 1920. Serial No. 353,579. Term of patent 7 years.



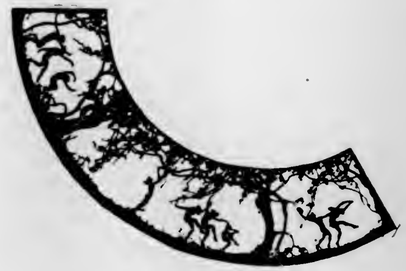
The ornamental design for a headlight, as shown.

58,123. COLLAR-CLASP OR SIMILAR ARTICLE. PETER E. WIBERG, Glen Ridge, N. J. Filed Nov. 26, 1920. Serial No. 426,652. Term of patent 14 years.



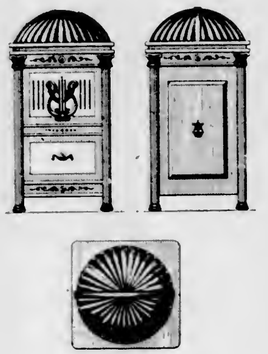
The ornamental design for a collar clasp or similar article, as shown.

58,124. LAMP-SHADE. CLARA ELSENE WILLIAMS, New York, N. Y. Filed Oct. 25, 1920. Serial No. 419,547. Term of patent 14 years.



The ornamental design for a lamp shade, as shown.

58,125. PHONOGRAPH-CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Nov. 13, 1920. Serial No. 424,000. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 7, 1921.

[PUBLISHED JUNE 18, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 112,501. (CLASS 39. CLOTHING.) NATIONAL CLOAK & SUIT CO., New York, N. Y. Filed Aug. 3, 1918. Under ten-year proviso.

National

Particular description of goods.—Men's, Ladies', and Children's Underwear Made of Cotton, Cotton Mesh, Wool, Wool and Cotton, Silk, and Silk Lisle, Plain, Trimmed, Machine-Embroidered, or Hand-Embroidered; Ladies' Undervests; Ladies', Men's, and Children's Raincoats Made of Rubber, Wool, and Cotton with Rubberized Inner Surface, Cotton with Rubberized Inner Surface, and Cravenetted Cloths; Maternity-Skirts, Maternity-Dresses, Maternity-Coats, Maternity-Corsets, Maternity-Waists, Maternity Knit Underwear Made of Cotton, Wool, Wool and Cotton, and Silk; Feather Boas, Boys' Suits Made of Cloth, Boys' Wash-Suits, Boys' Dress and Negligée Shirts; Boys' Blouses; Boys' Collars; Boys' Hats; Boys' Pants, Long and Short; Boys' Knickerbockers, Boys' Mackinaws, Boys' Overalls; Fur Coats, Hose for Men, Muffs Made of Material other Than Fur; Scarfs of Fur, Silk, Cotton, Silk and Cotton, Wool, Wool and Cotton, and Beaded Scarfs; Youths' Overcoats, Corset-Waists, Men's Pants; Ladies', Men's, Children's, and Infants' Shoes of All Kinds Made of Leather, Canvas, Rubber, or Composition; Rubbers; Overcoats for Men, Young Men, and Boys; Mackinaws for Young Men and Men and Knit Underwear for Men, Ostrich-Feather Neck-Ruffs, Outing-Suits for Men, Negligée Shirts for Men and Young Men, Men's and Young Men's Collars; Men's Dress-Shirts, Caps, Overalls, and Hats; Comfort-Slippers Made of Felt, Cloth, or Leather for Men, Women, and Children; Sport-Skirts Made of Wool, Cotton, Wool and Cotton, Silk, Silk and Cotton, and Silk and Wool for Women and Misses; Knit Underwear; Ladies', Misses', and Children's Hats Made of Straw, Felt, Fur, Wool, Wool and Cotton, Silk, Silk and Wool, and Silk and Cotton, Trimmed and Untrimmed; Layettes Consisting of Cotton Shirts, Wool and Cotton Flannel Pinning-Bands, Flannelette Pinning-Bands, Hand-Crocheted All-Wool Worsted Bootees, Hand-Crotcheted All-Wool Worsted Long Bootees, Sack, Wool and Cotton Cashmere Nightingale, Flannelette Hood-Shawl, Barrows of Flannelette, Barrow of Wool and Cotton Embroidered Flannel, Petticoat of Wool and Cotton Flannel, Petticoat of Flannelette, Sleeping-Garment of Flannelette, Long Wrapper of Flannelette, Petticoat of Nainsook, Nainsook Slips, Nainsook Dress with Tucks and Embroidery on Yoke; Nainsook Dress, Embroidered Yoke; Nainsook Dress with Hand-Embroidered Yoke, Dress of Embroidery-Flouncing, Petticoat of Embroidery-Flouncing; Rubber Heels, Pneumatic-Cushion Insole, Flexible Shanks, Double-Wear Fiber Soles; Sanitary Goods Used as Clothing and Consisting of Ladies' Aprons, Belts or Bands, Shields, and Napkins Made of Cotton, Rubber, and Rubberized Cloth; Girdles for Women, Misses, and Children; Infants' Bibs of Honeycomb-Cloth, Infants' Bibs of Fancy-Weave Cotton, Infants' Bibs of Embroidered Lawn, Hemmed Cotton Bird's-Eye Diapers, Rubberized Diaper-Pants, Quilted Diaper-Pads, and Rubber Triangular Diaper-Covers; Also Gloves Made of Leather, Imitation Leather, Wool, Cotton, Wool and Cotton, Silk, Silk and Wool, and Silk and Cotton for Men, Women, and Children, and Men's and Boys' Ties; Also Belts for Personal Wear Made of Leather, Imitation Leather, Wool, Cotton, Wool and Cotton, Silk and Cotton, Silk and Wool for Men, Young Men and Boys, Women, Misses, and Children; Men's and Boys' Suspenders.

Claims use since 1888.

Ser. No. 115,313. (CLASS 37. PAPER AND STATIONERY.) COMPARATIVE X-RAY COMPANY, New York, N. Y. Filed Jan. 20, 1919.

COMPARATIVE DUO-GRAPH

Applicants do not claim the representation of an X-ray tube *per se*, but do claim the mark, consisting of the representation shown, subject to the disclaimer relating to "Comparative" and "Trade Mark." We disclaim as a part of said trade-mark the words "Comparative" and "Trade Mark."

Particular description of goods.—Photographic Mounts for Holding X-Ray Films and Photographic Reproductions Thereof.

Claims use since about Jan. 1, 1919.

Ser. No. 118,759. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE F. C. KENT COMPANY, Newark, N. J. Filed May 21, 1919.

KENT

The drawing is lined for shading and not for color. The representation of a phonograph sound-box shown in the drawing is disclaimed apart from the mark shown.

Particular description of goods.—Phonograph Accessories—Namely, Sound-Boxes, Tone-Arms, Adapter Attachments, Universal Playing Attachments, Lateral-Cut-Record-Playing Attachments, Sapphire Points, Sapphire Balls, Diamond Points, and Styli.
Claims use since Mar. 2, 1915.

Ser. No. 118,965. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE F. C. KENT COMPANY, Newark, N. J. Filed May 27, 1919.

KENTONE

Particular description of goods.—Phonograph Accessories—Namely, Sound-Boxes, Tone-Arms, Adapter Attachments, Universal Playing Attachments, Lateral-Cut-Record-Playing Attachments, Sapphire Points, Sapphire Balls, Diamond Points, and Styli.
Claims use since May 17, 1919.

Ser. No. 120,176. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OKLAHOMA AUTO MANUFACTURING CO., North Muskogee, Okla. Filed July 1, 1919.

OK

Particular description of goods.—Motor-Trucks and Trailers.
Claims use since September, 1917.

Ser. No. 124,560. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GLOBE AUTOMATIC SPRINKLER COMPANY, Philadelphia, Pa. Filed Oct. 31, 1919.

GLOBE

Particular description of goods.—Automatic Fire-Sprinkler Systems.
Claims use since July 16, 1918.

Ser. No. 126,853. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Jan. 6, 1920.

DEFENDER

Particular description of goods.—Rellners, Inside Tire-Sleeves, and Outside Tire-Sleeves Made Wholly or Partly of Rubber.
Claims use since Nov. 12, 1917.

Ser. No. 126,854. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Jan. 6, 1920.

DEFENDER

Particular description of goods.—Rellners, Inside Tire-Sleeves, and Outside Tire-Sleeves Made Wholly or Partly of Rubber.
Claims use since Nov. 12, 1917.

Ser. No. 126,887. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WEST MICHIGAN STEEL FOUNDRY CO., Muskegon, Mich. Filed Jan. 6, 1920.

Hi-Tempo

Particular description of goods.—Carbonizing, Annealing, Tempering, and Melting Pots and Boxes and Metal Crucibles for Industrial Purposes.
Claims use since about Nov. 17, 1919.

Ser. No. 127,763. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) METROPOLITAN-VICKERS ELECTRICAL COMPANY LIMITED, London, England. Filed Jan. 30, 1920.

COSMOS

Particular description of goods.—Electric Lamps and Fittings, Switches and Contacts Therefor, Electric Sadirons, Parts and Stands; Electric Bake-Ovens, Electric Toasters, Electric Stoves and Electric Kettles, Electric Coffee-Percolators, Electric Tea-Samovars, Electric Chafing-Dishes, Electric Sauté and Frying Pans, Electric Nursery Milk-Warmers, Electric Air-Heaters, Electric Heating-Pads, Electric Automobile-Tire Vulcanizers, Electric Curling-Irons, Electric Immersion-Heaters, Electric Solder-Pots and Glue-Pots, Electric Glue-Cookers, Electric Chocolate-Warmers, Electric Steam-Boilers, Electric Hot-Plates, and Electric Water-Heaters.
Claims use since February, 1918.

Ser. No. 128,435. (CLASS 37. PAPER AND STATIONERY.) SIMPLO FÜLLFEDER GESELLSCHAFT VOSS, LAUSEN & DZIAMBOR, Hamburg, Germany. Filed Feb. 16, 1920.

Montblanc

Particular description of goods.—Fountain-Pens.
Claims use since 1910.

Ser. No. 129,782. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THOMAS D. GARD CO., INC., Worcester, Mass. Filed Mar. 16, 1920.

T-D-G

Particular description of goods.—Badges, Emblems, Medals, and Trophies Made of or Plated with Precious Metals and Jewelry for Personal Wear, Not Including Watches.
Claims use since May, 1906.

Ser. No. 130,582. (CLASS 38. PRINTS AND PUBLICATIONS.) HARRY C. COWDREY, New York, N. Y. Filed Apr. 3, 1920.

Nu

Particular description of goods.—Pamphlets and Bound Publications.
Claims use since Sept. 1, 1919.

Ser. No. 131,631. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Apr. 26, 1920.

Clydecloth

Applicant hereby disclaims any claim to the words "Clyde" and "Cloth" except in the peculiar form and combination shown on the drawing.
Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House-Coats, Waistcoats, Bath-Robes, Smoking-Robes, Smoking-Jackets, Drawers, Pajamas, Dress-Shirts, Undershirts, Night-Shirts, Union-Suits, Bathing-Suits, Swimming-Suits, Dressing-Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress-Suits, Golf-Suits, Hunting-Suits, Riding-Suits, Tuxedo-Suits, Walking-Suits, Sack-Suits, Trousers, Hats, and Caps Made Out of Textile Material, and Gloves, Sweaters, Mufflers, Bathing-Suits, Swimming-Suits, Drawers, Undershirts, Hats, and Caps Made Out of Knitted Material—and Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking-Suits, Sport-Suits, Golf-Suits, Riding-Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath-Robes, Shirtwaists, Bathing-Suits, Dressing-Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport-Coats, Hats, Caps, and Coats Made Out of Textile Material, and Dresses, Corsets, Tailored Suits, Walking-Suits, Sport-Suits, Golf-Suits, Riding-Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath-Robes, Shirtwaists, Bathing-Suits, Dressing-Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material—and Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Materials.
Claims use since Feb. 1, 1920.

Ser. No. 131,702. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE A-C ELECTRICAL MFG. CO., Dayton, Ohio. Filed Apr. 27, 1920.

DAY-TON LITE

Particular description of goods.—Electric-Lighting Systems.
Claims use since June 1919.

Ser. No. 132,084. (CLASS 37. PAPER AND STATIONERY.) THE CONKLIN PEN MANUFACTURING CO., Toledo, Ohio. Filed May 6, 1920.

Conklin

The lines in the crescent figure indicating shading only.
Particular description of goods.—Fountain-Pens.
Claims use since Mar. 10, 1920.

Ser. No. 132,300. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ALEXANDRE FAURE, New York, N. Y. Filed May 11, 1920.



The illustration of the automobile-tire does not constitute an element of the trade-mark as used by me, and therefore any exclusive right to the use of said illustration is hereby disclaimed.
Particular description of goods.—Rubber and Fabric Pneumatic Tires for Automobiles.
Claims use since Jan. 1, 1919.

Ser. No. 132,332. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE VIBROFLEX COMPANY, INC., New York, N. Y. Filed May 11, 1920.



Consisting of a design of a bug. The drawing is lined to indicate that the surface of the label forming a background for the symbol is printed in yellow or gold.

Particular description of goods.—Telegraphic Sending-Machines.

Claims use since on or about Mar. 1, 1919.

Ser. No. 132,737. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FLEXLUME SIGN COMPANY, Buffalo, N. Y. Filed May 21, 1920.

FLEXLUME

Particular description of goods.—Electrically-Illuminated Signs.

Claims use since March, 1912.

Ser. No. 132,742. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., INC., Baltimore, Md. Filed May 21, 1920.

IBCO
INTERNATIONAL
BEDDING
COMPANY

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 132,743. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., INC., Baltimore, Md. Filed May 21, 1920.

INTER NATIONAL BEDDING COMPANY

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 132,744. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., INC., Baltimore, Md. Filed May 21, 1920.

INTER-NATIONAL
BEDDING-COMPANY

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 133,647. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRED ALLISON, Highland Park, Mich. Filed June 14, 1920.

FA

Particular description of goods.—Electrical Motors and Generators.

Claims use since June 1, 1918.

Ser. No. 134,193. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed June 25, 1920.

REGINA

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 134,195. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed June 25, 1920.

DRUID

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 134,196. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., INC., Baltimore, Md. Filed June 25, 1920.

RELIEF

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 134,200. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., INC., Baltimore, Md. Filed June 25, 1920.

TRIUMPH

Particular description of goods.—Mattresses, Pillows, and Box-Springs.

Claims use since Jan. 1, 1918.

Ser. No. 134,462. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CLARK-GANDION TRUSS COMPANY, San Francisco, Calif. Filed July 1, 1920.

C-G

Particular description of goods.—Leather, or Rubber, or Composition, or Knitted, or Textile-Fabric Truss, Abdominal Supporter, Sanitary Suspensory, and a Sanitary Jock-Strap.

Claims use since March, 1913, on trusses and abdominal supporters for esthetic reasons and since April, 1910, on sanitary suspensory and jock-strap.

Ser. No. 134,553. (CLASS 38. PRINTS AND PUBLICATIONS.) TOLMAN PRINT INC., Brockton, Mass. Filed July 3, 1920.

Tolman

Particular description of goods.—Advertising Literature—Namely, Post-Cards, Posters, Broadsides, Folders, Printed Signs; Completely-Printed Labels, Tags, and Cards; Novelty Died-Out Tickets, Booklets, Pamphlets, and Catalogues.

Claims use since Jan. 15, 1905.

Ser. No. 135,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELLA M. GREENFIELD, Erie, Pa. Filed July 15, 1920.





Particular description of goods.—A Liquid Medicinal Preparation for Use in Inhalers.

Claims use since March, 1919.

Ser. No. 135,558. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HEISER COMPANY, Cleveland, Ohio. Filed July 29, 1920.

ANY THING WHERE TIME

No claim is made to the exclusive right to the words "Anything, Anywhere, Any Time" except in the arrangement shown.

Particular description of goods.—Photographs, Photographic Prints, and Commercial Photographs.

Claims use since Jan. 10, 1910.

Ser. No. 136,688. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MITCHELL STEIGMAN, San Francisco, Calif. Filed Aug. 31, 1920.

PHONETTE

Particular description of goods.—Phonograph.

Claims use since Jan. 1, 1920.

Ser. No. 137,145. (CLASS 38. PRINTS AND PUBLICATIONS.) E. M. RUDD, Fargo, N. D., assignor to W. M. Nesheim, Moorhead, Minn. Filed Sept. 13, 1920.

THE FOX SYSTEM

No claim is made for the word "System" apart from the mark shown.

Particular description of goods.—Photographs and Illustrations.

Claims use since Jan. 1, 1920.

Ser. No. 137,172. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL LEAD BATTERIES COMPANY, Newark, N. J. Filed Sept. 14, 1920.

TITAN

Particular description of goods.—Batteries, Battery-Plates, Battery-Grids, Battery Vent-Plugs, Battery-Cell Connectors, Battery Positive and Negative Terminals.

Claims use since Jan. 1, 1914.

Ser. No. 137,175. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KESCOT MANUFACTURING COMPANY, INCORPORATED, Providence, R. I. Filed Sept. 14, 1920.

KES-CUT

Particular description of goods.—Cut-Steel Buckles.
Claims use since Oct. 23, 1919.

Ser. No. 137,607. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WOHL, SOUTH & CO., New York, N. Y. Filed Sept. 25, 1920.



Applicant disclaims the word "Fabrics" except as used in connection with the other features of the mark as shown.
Particular description of goods.—Cotton Piece Goods.
Claims use since June, 1914.

Ser. No. 137,726. (CLASS 37. PAPER AND STATIONERY.) THE CRYSTAL TISSUE CO., Excello, Ohio. Filed Sept. 29, 1920.

CRYSTAL TISSUES

No claim being made to the word "Tissue" apart from the mark shown in the drawing.
Particular description of goods.—White, Colored, Manila, and Waxed Tissue-Papers.
Claims use since Jan. 1, 1913.

Ser. No. 137,791. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) T. & H. SPECIALTY MFG. CO., INC., Charleston, W. Va. Filed Sept. 30, 1920.

Nautilola

Particular description of goods.—Talking-Machines and Attachments and Supplies Therefor—Namely, Mechanically-Operated Motors, Tone-Arms, Diaphragms, Needles, Records, and Record-Albums.
Claims use since Mar. 1, 1920.

Ser. No. 138,157. (CLASS 43. THREAD AND YARN.) J. & P. COATS (R. I.) INC., Pawtucket, R. I. Filed Oct. 11, 1920.

TORELLÓ

Particular description of goods.—Thread and Yarn.
Claims use since Sept. 21, 1895.

Ser. No. 138,373. (CLASS 39. CLOTHING.) BAREN, LEHRMAN & BERLER, INC., New York, N. Y. Filed Oct. 16, 1920.



No claim is made to "Supreme Fashion Clothes for Young Men Up to Sixty" apart from the mark as shown.
Particular description of goods.—Men's Clothing Consisting of Suits and Overcoats.
Claims use since Jan. 19, 1919.

Ser. No. 138,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. G. CORNWELL & SON, INC., Washington, D. C. Filed Oct. 22, 1920.



Particular description of goods.—Spaghetti.
Claims use since December, 1919.

Ser. No. 138,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MURRAY C. DRAKE, Binghamton, N. Y. Filed Oct. 23, 1920.

KRIN ○ LENE

The mark consists of the word "Krin-O-Lene" in white letters outlined on a figure in blue representing a log of wood.
Particular description of goods.—Dental Cream.
Claims use since May 15, 1920.

Ser. No. 138,917. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NEW SOUTH RUBBER COMPANY, Atlanta, Ga. Filed Oct. 28, 1920.

AMAZON

Particular description of goods.—Rubber and Fabric Outer Casings for Pneumatic Automobile-Tires and Inner Tubes for Automobile Pneumatic Tires.
Claims use since Dec. 12, 1914.

Ser. No. 138,957. (CLASS 15. OILS AND GREASES.) THE RED "C" OIL MFG. CO., Baltimore, Md. Filed Oct. 29, 1920.



The seal being shaded to indicate red coloring.
Particular description of goods.—Oils, Lubricating-Greases, and Gasolene.
Claims use since the early part of 1908.

Ser. No. 138,974. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ISABELLE MCKEE BLOCH, Seattle, Wash. Filed Oct. 30, 1920.



The words "Trade Mark, Player Rolls, Reg. U. S. Pat. Off." and also the representation of the goods form no part of the mark and are hereby disclaimed.
Particular description of goods.—Piano-Player Rolls.
Claims use since Aug. 14, 1919.

Ser. No. 139,001. (CLASS 15. OILS AND GREASES.) RICHARDSON LUBRICATING COMPANY, Quincy, Ill. Filed Oct. 30, 1920. Under ten-year proviso.



Particular description of goods.—Lubricating Oils and Greases and Axle-Grease.
Claims use since Oct. 15, 1888.

Ser. No. 139,003. (CLASS 15. OILS AND GREASES.) SEABOARD AND INLAND OIL CORPORATION, Bloomsburg, Pa. Filed Oct. 30, 1920.

LYCO

Consisting of the word "Lyco."
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Sept. 1, 1920.

Ser. No. 139,004. (CLASS 15. OILS AND GREASES.) SEABOARD AND INLAND OIL CORPORATION, Bloomsburg, Pa. Filed Oct. 30, 1920.

LYCOLENE

Consisting of the word "Lycolene."
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Sept. 1, 1920.

Ser. No. 139,325. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWIFT AND COMPANY, Chicago, Ill. Filed Nov. 6, 1920.

Tropic Nut

Particular description of goods.—Oleomargarin.
Claims use since Oct. 1, 1919.

Ser. No. 139,813. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CORN BELT FARM DAILIES, Chicago, Ill. Filed Nov. 18, 1920.



No claim is made to the exclusive use of the words "America's Agricultural Newspapers."
Particular description of goods.—Newspapers.
Claims use since Oct. 29, 1919.

Ser. No. 139,957. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920.

OAKLAND

Particular description of goods.—Writing-Paper.
Claims use since 1896.

Ser. No. 140,024. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC ARC CUTTING AND WELDING COMPANY, Newark, N. J. Filed Nov. 23, 1920.

"ALTERNARC"

Particular description of goods.—Electric Welding-Machines.
Claims use since about May, 1918.

Ser. No. 140,161. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE BRIDGEPORT COACH LACE CO., Bridgeport, Conn. Filed Nov. 26, 1920.

TOPSEMALL

Particular description of goods.—Manufactured Leather for Vehicle-Tops.
Claims use since July 15, 1920.

Ser. No. 140,320. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.



Particular description of goods.—Bedspreads.
Claims use since 1901.

Ser. No. 140,331. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THOMAS W. C. HARTMANN, Philadelphia, Pa. Filed Nov. 27, 1920.

CONQUER

Particular description of goods.—Spring Shock-Absorbing Devices for Use in Connection with the Body-Supporting Springs of Vehicles for the Purpose of Preventing the Springs from Breaking and Also for Strengthening the Body-Supporting Springs and Preventing the Bouncing of the Body Portion from Injuring Any of the Parts of the Vehicle.
Claims use since Oct. 8, 1920.

Ser. No. 140,779. (CLASS 38. PRINTS AND PUBLICATIONS.) DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France. Filed Dec. 8, 1920.

DMC

Particular description of goods.—Instruction-Books and Printed Matter Issued from Time to Time.
Claims use since about 1841.

Ser. No. 140,784. (CLASS 38. PRINTS AND PUBLICATIONS.) DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France. Filed Dec. 8, 1920.

DMC

Particular description of goods.—Instruction-Books and Printed Matter Issued from Time to Time.
Claims use since about 1841.

Ser. No. 140,816. (CLASS 38. PRINTS AND PUBLICATIONS.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Dec. 8, 1920.

GLOSSILLA

Particular description of goods.—Initial-Books, Monogram-Books, Design Books and Patterns for Art-Needlework, Also Instructions and Lessons on Art-Needlework, Instruction-Books and Similar Publications Relating to Art-Needlework, Printed Initials and Designs Forming Outlines for Embroidery and Known as Decalcomanias Issued in the Form of Books, Sheets, Leaflets, or Paper Tape.
Claims use since about June, 1908.

Ser. No. 140,910. (CLASS 39. CLOTHING.) ALWARD-ANDERSON-SOUTHARD CO., Chicago, Ill. Filed Dec. 11, 1920.

RED HEAD

Particular description of goods.—Hunting and Riding Coats, Vests, and Pants.
Claims use since about August, 1908.

Ser. No. 140,958. (CLASS 39. CLOTHING.) NEW FREEDOM MANUFACTURING COMPANY, New Freedom, Pa. Filed Dec. 11, 1920.

Freedom Middy

No claim being made to the word "Middy" apart from the mark shown.
Particular description of goods.—Middy-Blouses.
Claims use since Mar. 1, 1920.

Ser. No. 141,185. (CLASS 38. PRINTS AND PUBLICATIONS.) OTT-HEISKELL HARDWARE CO., Wheeling, W. Va. Filed Dec. 16, 1920.

SPARKS FOR THE HARDWARE MERCHANT

Particular description of goods.—Trade Journal or Paper Published at Irregular Intervals.
Claims use since Dec. 1, 1920.

Ser. No. 141,515. (CLASS 12. CONSTRUCTION MATERIALS.) CHENEY & CO., New York, N. Y. Filed Dec. 27, 1920.

TROEGERLITH

Particular description of goods.—Composition Flooring of Mineral Substances and the Mineral Compositions Prepared for Use in Making Such Flooring.
Claims use since Aug. 25, 1920.

Ser. No. 141,705. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) VAN RAALTE COMPANY, INC., New York, N. Y. Filed Dec. 30, 1920.

Van Raalte

Particular description of goods.—Veils, Veilings, and Nettings in the Piece.
Claims use since Jan. 2, 1913.

Ser. No. 141,748. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BURAIMO COMPANY, Belmont, Mass. Filed Jan. 3, 1921.

Buraimo

Particular description of goods.—Salves Used in the Treatment of Burns, Scalds, Bruises.
Claims use since Oct. 19, 1920.

Ser. No. 141,830. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DADE CITY PACKING CO., Dade City, Fla. Filed Jan. 4, 1921.



Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Tangerines, and Grapefruit.
Claims use since Nov. 1, 1920.

Ser. No. 141,899. (CLASS 37. PAPER AND STATIONERY.) THE DUX CHEMICAL SOLUTIONS COMPANY, LIMITED, London, England. Filed Jan. 6, 1921.

DUXEEN

Particular description of goods.—Prepared Paper and Cloth Used for Book-Covers.
Claims use since July, 1920.

Ser. No. 141,910. (CLASS 12. CONSTRUCTION MATERIALS.) WILLIAM M. LLOYD COMPANY, Philadelphia, Pa. Filed Jan. 6, 1921.



Consisting of a black circle with the upright form of a tree (indicated by vertical green stripes) superimposed upon the upper half of said circle, with the top of the tree extending slightly above the top of the circumference of said circle; also superimposed upon said circle and in line with the horizontal diameter thereof and across the root and trunk of said superimposed tree the block letters "Lloyd."
Particular description of goods.—Lumber.
Claims use since Mar. 31, 1917.

Ser. No. 142,135. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVIDSON-LAKE TEA AND COFFEE CO., Salt Lake City, Utah. Filed Jan. 12, 1921.

GRAND BRAND



No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Coffee.
Claims use since Sept. 12, 1919.

Ser. No. 142,294. (CLASS 39. CLOTHING.) THE OBERNDORFER CO., Milwaukee, Wis. Filed Jan. 15, 1921.

Yungchap

Particular description of goods.—Boys' Blouses.
Claims use since Jan. 5, 1921.

Ser. No. 142,476. (CLASS 39. CLOTHING.) MIRIAM R. DAVIS, San Francisco, Calif. Filed Jan. 20, 1921.

Mardi

Particular description of goods.—Brassières.
Claims use since Sept. 1, 1920.

Ser. No. 142,640. (CLASS 38. PRINTS AND PUBLICATIONS.) PROCESS ENGINEERS, INCORPORATED, New York, N. Y. Filed Jan. 22, 1921.

PRODUCTION ECONOMISTS ENGINEERS

Particular description of goods.—Printed Booklets and Leaflets Published from Time to Time.
Claims use since May 15, 1920.

Ser. No. 142,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUCOA BUTTER COMPANY, New York, N. Y. Filed Jan. 29, 1921.

NUFLAKE
PURE VEGETABLE COMPOUND

The background is blue, the phrase "Pure Vegetable Compound" being disclaimed.
Particular description of goods.—A Vegetable Shortening.
Claims use since Dec. 13, 1920.

Ser. No. 143,092. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) E. L. LOGEE CO., Providence, R. I. Filed Feb. 2, 1921.

L

Particular description of goods.—Emblems, Brooches, Stickpins, Cuff-Links, Finger-Rings, Tie-Clasps, and Collar Pins and Keys Which are Made of or Plated with Precious Metal.
Claims use since 1899.

Ser. No. 143,133. (CLASS 39. CLOTHING.) MAYER & NEUBURGER COMPANY, Chicago, Ill. Filed Feb. 3, 1921.

The Martha Washington
Aprondress

No claim is made to the word "Aprondress" apart from the mark shown in the drawing.
Particular description of goods.—Apron-Dresses.
Claims use since Sept. 1, 1920.

Ser. No. 143,163. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DEVOE & RAYNOLDS CO., INC., New York, N. Y. Filed Feb. 4, 1921.

MIRROLAC

Particular description of goods.—Ready-Mixed Paints, Paint Enamels for Wood and Metal Surfaces, Wood-Stains and Paints and Varnishes Used in Graining on Wood, Metal, Plaster, or Any Prepared Surface.
Claims use since January, 1917.

Ser. No. 143,223. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SPIRO SPARK PLUG CO., Anderson, Ind. Filed Feb. 5, 1921.

SPIRO

Particular description of goods.—Spark-Plugs.
Claims use since June 18, 1915.

Ser. No. 143,266. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM H. HENDRICKS, Reno, Nev. Filed Feb. 7, 1921.

"SAVE and HAVE"

Particular description of goods.—Weekly Publication.
Claims use since November, 1920.

Ser. No. 143,311. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Filed Feb. 8, 1921.

Kemick

Particular description of goods.—Paint That is Used to Advantage on Surfaces Exposed to Heat.
Claims use since Jan. 10, 1921.

Ser. No. 143,397. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WARD LEONARD ELECTRIC COMPANY, Mount Vernon, N. Y. Filed Feb. 10, 1921.

RIBOHM

Particular description of goods.—Electric-Resistance Units, Rheostats, Regulators, and Electric Resistors.
Claims use since Apr. 14, 1920.

Ser. No. 143,467. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WARD LEONARD ELECTRIC COMPANY, Mount Vernon, N. Y. Filed Feb. 11, 1921.

VITROHM

Particular description of goods.—Electric-Resistance Units, Rheostats, Regulators, and Electric Resistors.
Claims use since Jan. 22, 1920.

Ser. No. 143,521. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) UNKEFER VARNISH COMPANY, Chicago, Ill. Filed Feb. 12, 1921.

AMBERHARD

Particular description of goods.—Varnishes, Fillers, Stains, and Varnish-Coatings.
Claims use since Apr. 1, 1907.

Ser. No. 143,539. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHIPMAN CHEMICAL ENGINEERING CO. INC., New York, N. Y. Filed Feb. 14, 1921.

CHIPMAN CHIPMAN CHIPMAN

Particular description of goods.—Protective Paint for Iron, Steel, and other Metals.
Claims use since December, 1919.

Ser. No. 143,540. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHIPMAN CHEMICAL ENGINEERING CO. INC., New York, N. Y. Filed Feb. 14, 1921.

CHIPMAN

Particular description of goods.—Protective Paint for Iron, Steel, and other Metals.
Claims use since December, 1919.

Ser. No. 143,566. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STATE OF NEW YORK, Saratoga Springs, N. Y. Filed Feb. 14, 1921.

HATHORN NO. 2

Particular description of goods.—Natural Mineral Water.
Claims use since about 1910.

Ser. No. 143,567. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STATE OF NEW YORK, Saratoga Springs N. Y. Filed Feb. 14, 1921.

GEYSER

Particular description of goods.—Natural Mineral Water.
Claims use since about 1870.

Ser. No. 143,568. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STATE OF NEW YORK, Saratoga Springs, N. Y. Filed Feb. 14, 1921.

COESA

Particular description of goods.—Natural Mineral Water.
Claims use since about 1912.

Ser. No. 143,590. (CLASS 39. CLOTHING.) CRIPPEN & REID, Baltimore, Md. Filed Feb. 15, 1921.

HEATHERGOLD

Particular description of goods.—Middy-Blouses.
Claims use since January, 1921.

Ser. No. 143,606. (CLASS 39. CLOTHING.) F. C. HUYCK & SONS, Albany, N. Y. Filed Feb. 15, 1921.

KENWOOD

Outdoor Comfort

PRODUCTS

No claim being made to the words "Outdoor Comfort Products" apart from the mark as shown in the drawing.
The mark consists of the words "Kenwood Outdoor Comfort Products" and a panel in outline, in which is a representation of a mountain-ram occupying a prominent position in the foreground and woods and a portion of a mountain-range forming the background.
Particular description of goods.—Scarfs; Stockings for Men, Women, and Children; Socks for Men, Women, and Children; Sweaters for Men, Women, and Children, of Textile Fabrics.
Claims use since about Feb. 1, 1919.

Ser. No. 143,655. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PORTER CHEMICAL COMPANY, Hagerstown, Md. Filed Feb. 16, 1921.

Star Craft

Particular description of goods.—Maps, Charts, and Printed Books Used in Connection Therewith.
Claims use since on or about Feb. 10, 1921.

Ser. No. 143,810. (CLASS 38. PRINTS AND PUBLICATIONS.) DAVID LAWRENCE INCORPORATED, Washington, D. C. Filed Feb. 19, 1921.

FAIR PLAY

Particular description of goods.—*Nom de Plume* Used on Newspaper Articles.
Claims use since as early as Oct. 1, 1920.

Ser. No. 143,853. (CLASS 38. PRINTS AND PUBLICATIONS.) COMMERCIAL NEWSPAPER COMPANY, New York, N. Y. Filed Feb. 21, 1921. Under ten-year proviso.

THE MANUAL OF STATISTICS

STOCK EXCHANGE HAND-BOOK

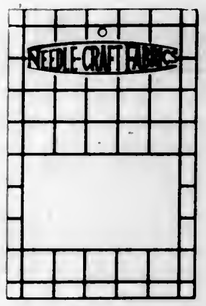
Particular description of goods.—A Manual or Publication Issued at Intervals.
Claims use since Jan. 2, 1880.

Ser. No. 143,927. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) M. VELDHUYZEN VAN ZANTEN & ZONEN, Lisse, Netherlands. Filed Feb. 23, 1921.



Particular description of goods.—Bulbs, Plants, Seed.
Claims use since Apr. 1, 1908.

Ser. No. 143,983. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HERBERT J. CATHCART, New York, N. Y. Filed Feb. 24, 1921.



No claim is herein made for the exclusive right to the use of the word "Fabrica" apart from the mark as shown in the drawing, nor for the exclusive use of the representation of a printed tag apart from the mark as otherwise shown in the drawing.
Particular description of goods.—Cotton, Woolen, or Silk Piece Goods.
Claims use since Feb. 1, 1921.

Ser. No. 144,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Feb. 25, 1921. Under ten-year proviso.

McDonald's

Particular description of goods.—Candies, Chocolates, and Fruit Confections.
Claims use since about 1886.

Ser. No. 144,037. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) OVERSEAS MOTOR SERVICE CORPORATION, New York, N. Y. Filed Feb. 25, 1921.

OVERSEAS MOTOR SERVICE CORPORATION

Particular description of goods.—Accessory and Repair Devices and Parts for Automobiles, Motor-Driven Trucks, and Similar Self-Propelled Vehicles—Namely, Incandescent Lamps, Magnetos, Spark-Coils, and Controlling-Switches.
Claims use since on or about June 1, 1919.

Ser. No. 144,117. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHINGTON GROWERS PACKING CORPORATION, Vancouver, Wash. Filed Feb. 26, 1921.

Mellowest

Particular description of goods.—Dried Fruits.
Claims use since Dec. 20, 1920.

Ser. No. 144,123. (CLASS 37. PAPER AND STATIONERY.) BANKERS PUBLICITY COMPANY, St. Louis, Mo. Filed Feb. 28, 1921.



No claim is made to the use of the words "Christmas Club" and the illustration of the Statue of Liberty apart from the mark as shown in the drawing.
Particular description of goods.—Check-Books, Bank-Books, Savings-Bank Books, Checks, Drafts, Bills, and Notes.
Claims use since Feb. 9, 1921.

Ser. No. 144,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARD FRANK, New York, N. Y. Filed Mar. 5, 1921.

"Velvan"

Particular description of goods.—Vanilla Extract.
Claims use since Apr. 1, 1920.

Ser. No. 144,338. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIBERTY ORCHARDS COMPANY, Cashmere, Wash. Filed Mar. 5, 1921.

APLETS

Particular description of goods.—Candy.
Claims use since Dec. 1, 1920.

Ser. No. 144,349. (CLASS 12. CONSTRUCTION MATERIALS.) WILLIAM L. PATTISON, Kansas City, Mo. Filed Mar. 5, 1921.

ARROWHEAD



Particular description of goods.—Gratings.
Claims use since Feb. 28, 1921.

Ser. No. 144,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOWARD H. HOYT CANDY CO., Chicago, Ill. Filed Mar. 10, 1921.



The picture being fanciful and no claim being made to the exclusive use of the jar of candy apart from the mark shown.
Particular description of goods.—Candy.
Claims use since Oct. 1, 1920.

Ser. No. 144,594. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE WELEVER PISTON RING COMPANY, Toledo, Ohio. Filed Mar. 10, 1921.

WEL-EVER

Particular description of goods.—Piston-Rings.
Claims use since July, 1919.

Ser. No. 144,602. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELEN BOWEN, East Orange, N. J. Filed Mar. 11, 1921.



The word "Brand" is disclaimed except in conjunction with the other elements of the trade-mark.
Particular description of goods.—Salted Peanuts.
Claims use since Oct. 1, 1918.

Ser. No. 144,643. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN M. STRAUSS, Chicago, Ill. Filed Mar. 11, 1921.



Particular description of goods.—Candy.
Claims use since June 1, 1920.

Ser. No. 144,644. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN M. STRAUSS, Chicago, Ill. Filed Mar. 11, 1921.

Pudgie Wudgie
Pure Wholesome

Consisting of the words "Pudgie Wudgie," the words "Pure" and "Wholesome" being disclaimed apart from the mark as shown.
Particular description of goods.—Candy.
Claims use since June 1, 1920.

Ser. No. 144,647. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES K. THAU, New York, N. Y. Filed Mar. 11, 1921.

Her Majesty

Particular description of goods.—Hair-Nets.
Claims use since June 1, 1919.

Ser. No. 144,648. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES K. THAU, New York, N. Y. Filed Mar. 11, 1921.

Miltonet

Particular description of goods.—Hair-Nets.
Claims use since Mar. 1, 1920.

Ser. No. 144,738. (CLASS 37. PAPER AND STATIONERY.) HERMAN C. POHLMANN, Chicago, Ill. Filed Mar. 14, 1921.

INTERWOVEN LINEN FABRIC

I hereby disclaim any exclusive appropriation of the words "Linen Fabric" appearing in the drawing.
Particular description of goods.—Writing-Paper.
Claims use since Jan. 1, 1921.

Ser. No. 144,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUNT JEMIMA MILLS COMPANY, St. Joseph, Mo. Filed Mar. 15, 1921.



AUNT JEMIMA

Particular description of goods.—Cooking and Salad Oils.
Claims use since Feb. 15, 1921.

Ser. No. 144,803. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ZÜRCHER, NIEDERER & CO., St. Gall, Switzerland. Filed Mar. 16, 1921.



No claim is made to the representation of the bolt or piece of cloth forming part of said trade-mark apart from the mark shown.
Particular description of goods.—Cotton Piece Goods for Women's Dress Purposes.
Claims use since Oct. 15, 1920.

Ser. No. 144,904. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 18, 1921.

Cachmireine

Particular description of goods.—Woolen Piece Goods.
Claims use since Mar. 1, 1921.

Ser. No. 144,922. (CLASS 38. PRINTS AND PUBLICATIONS.) DAVID LAWRENCE INCORPORATED, Washington, D. C. Filed Mar. 18, 1921.

Harden Colfax

The name "Harden Colfax" being fanciful.
Particular description of goods.—A *Nom de Plume* Used on Newspaper Articles.
Claims use since as early at Jan. 16, 1921

Ser. No. 144,944. (CLASS 38. PRINTS AND PUBLICATIONS.) STAR COMPANY, New York, N. Y. Filed Mar. 18, 1921.

Billy Benedict

Being in the handwriting of M. H. B. Paul.
Particular description of goods.—A *Nom de Plume* Used on Newspaper Articles.
Claims use since Sept. 3, 1919.

Ser. No. 144,960. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BINNS PATENT BAND CO., INC., Camden, N. J., and Philadelphia, Pa. Filed Mar. 19, 1921.

WOL-O-VOL

Particular description of goods.—Braided Tubular Textile Mats and Rugs.
Claims use since Feb. 26, 1921.

Ser. No. 144,964. (CLASS 37. PAPER AND STATIONERY.) CARTIER, INC., New York, N. Y. Filed Mar. 19, 1921. Under ten-year proviso.

CARTIER

Particular description of goods.—Lead-Pencils and Magazine Lead-Pencils.
Claims use since 1859.

Ser. No. 145,002. (CLASS 38. PRINTS AND PUBLICATIONS.) RICHARD JAMES BIEGER, St. Louis, Mo. Filed Mar. 21, 1921.

DOWN BELOW

Particular description of goods.—Serial Cartoons.
Claims use since Feb. 9, 1921.

Ser. No. 145,025. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MCGILL MANUFACTURING CO., Valparaiso, Ind. Filed Mar. 21, 1921.

LOXON

Particular description of goods.—Electric-Lamp Guards.
Claims use since January, 1900.

Ser. No. 145,035. (CLASS 37. PAPER AND STATIONERY.) NATIONAL BLANK BOOK CO., Holyoke, Mass. Filed Mar. 21, 1921.

NATIONAL

Particular description of goods.—Loose-Leaf and Bound Blank Books and Indexes.
Claims use since Feb. 1, 1921.

Ser. No. 145,049. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) VOLTA BATTERY COMPANY, Indianapolis and Martinsville, Ind. Filed Mar. 21, 1921.

VOLTA

Particular description of goods.—Battery-Boxes, Switchboards, and Generators.
Claims use since Jan. 21, 1921.

Ser. No. 145,065. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL CORRESPONDENCE SCHOOLS, Scranton, Pa. Filed Mar. 22, 1921.

Trained Men

Particular description of goods.—A Periodical Issued Monthly.
Claims use since Mar. 8, 1921.

Ser. No. 145,095. (CLASS 37. PAPER AND STATIONERY.) WAXIDE PAPER CO., Kansas City, Mo. Filed Mar. 22, 1921.

Waxide

Particular description of goods.—Wax Paper.
Claims use since July, 1914.

Ser. No. 145,104. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOREST ELECTRIC Co., Newark, N. J. Filed Mar. 23, 1921.

UNITRON

Particular description of goods.—Electric-Current Rectifiers.
Claims use since June 11, 1920.

Ser. No. 145,118. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN L. NEWBOLD, Washington, D. C. Filed Mar. 23, 1921.

Cinderella

Particular description of goods.—Candy.
Claims use since Aug. 1, 1920.

Ser. No. 145,170. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & Co., INC., New York, N. Y. Filed Mar. 24, 1921.

EL ABUELO



Particular description of goods.—Woven Cotton Piece Goods—Namely, Colored Drills of All Descriptions.
Claims use since September, 1919.

Ser. No. 145,200. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DURKEE-DAVIS MANUFACTURING COMPANY, Rockford, Ill. Filed Mar. 25, 1921.

SE-TO-SO

Consisting of the word "Se-to-so."
Particular description of goods.—Electric-Light Fixtures for Sewing-Machines.
Claims use since April, 1919.

Ser. No. 145,203. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BELDEN MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 25, 1921.

Silkenamel

Particular description of goods.—Magnet-Wires.
Claims use since on or about Jan. 1, 1910.

Ser. No. 145,204. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BELDEN MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 25, 1921.

Cotenamel

Particular description of goods.—Magnet-Wires.
Claims use since on or about Jan. 1, 1910.

Ser. No. 145,376. (CLASS 37. PAPER AND STATIONERY.) WORCESTER OFFICE SUPPLIES COMPANY, INCORPORATED, Worcester, Mass. Filed Mar. 28, 1921.

I-C

Particular description of goods.—Hand-Stamps, Particularly Hand, Rubber, or Type Stamps.
Claims use since about January, 1921.

Ser. No. 145,499. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Mar. 31, 1921.

A-BEST-O

Particular description of goods.—Automatic Electric Sadirons.
Claims use since 1911.

Ser. No. 145,502. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Mar. 31, 1921.

DOMANCO

Particular description of goods.—Electric Sadirons.
Claims use since 1913.

Ser. No. 145,524. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MULTI ELECTRICAL MFG. COMPANY, Chicago, Ill. Filed Mar. 31, 1921.

POWERLETS

Particular description of goods.—Fuse Cut-Outs, Conduit-Bushings, Switch-Boxes, Cut-Out Boxes, Conduit-Couplings, Fixture-Studs, Insulating-Joints, and Conduit Outlet-Boxes and Outlet-Covers.
Claims use since Sept. 1, 1918.

Ser. No. 145,613. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLUETT, PEABODY & Co. INC., Troy, N. Y. Filed Apr. 2, 1921.

ARROW

Particular description of goods.—Handkerchiefs.
Claims use since about Apr. 20, 1909.

Ser. No. 145,811. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALABAMA ANNUAL WHITE SWEET CLOVER SEED GROWERS ASSOCIATION, INC., Newbern, Ala. Filed Apr. 7, 1921.

"HUBAM"

Particular description of goods.—Clover-Seed.
Claims use since Feb. 28, 1921.

Ser. No. 145,898. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JONES, MAC NEAL AND CAMP, INCORPORATED, Chicago, Ill. Filed Apr. 8, 1921.

POWER KING

Particular description of goods.—Electric Portable Drills.
Claims use since Mar. 29, 1921.

Ser. No. 146,002. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Apr. 11, 1921.

EISENTAN

Particular description of goods.—Leather.
Claims use since Mar. 18, 1921.

Ser. No. 146,029. (CLASS 15. OILS AND GREASES.) THE L. V. NICHOLAS OIL COMPANY, Omaha, Nebr. Filed Apr. 11, 1921.

GEARIC COMPOUND
Scientifically Prepared
L. V. NICHOLAS OIL CO.

All marks and words appearing on the drawing except the word "Gearic" and the name "L. V. Nicholas Oil Co." are hereby disclaimed.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since Feb. 20, 1921.

Ser. No. 146,212. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE HIND & HARRISON PLUSH CO., New York and Clark Mills, N. Y. Filed Apr. 15, 1921.

SYLVOSEAL

Particular description of goods.—Pile-Fabric Piece Goods.
Claims use since Mar. 1, 1921.

Ser. No. 146,272. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ALEXANDER E. ROCHFORT, San Francisco, Calif. Filed Apr. 16, 1921.



Particular description of goods.—Fly-Killers and Fly-catchers.
Claims use since Apr. 6, 1921.

Ser. No. 146,320. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo. Filed Apr. 18, 1921.

SURETY

Particular description of goods.—Hair-Nets.
Claims use since about Mar. 24, 1921.

Ser. No. 146,417. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Apr. 20, 1921.

SYLLA

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Nov. 15, 1920.

Ser. No. 146,482. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. EINSTEIN, INC., New York, N. Y. Filed Apr. 21, 1921.

BRIGHTEX

Particular description of goods.—Cotton, Duck, and Canvas Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 146,483. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. EINSTEIN, INC., New York, N. Y. Filed Apr. 21, 1921.

BEECHTEX

Particular description of goods.—Cotton, Duck, and Canvas Piece Goods.
Claims use since Feb. 15, 1921.

Ser. No. 146,517. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & CO., New York, N. Y. Filed Apr. 22, 1921.

SILKAFIED

Particular description of goods.—Cotton Piece Goods.
Claims use since June, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 7, 1921.

143,528. CANDY COVERED WITH EDIBLE NUTS. ABRAHAM CHOCOLATE CO., Wapakoneta, Ohio.
Filed December 22, 1920. Serial No. 141,409. PUBLISHED MARCH 8, 1921.

143,529. WOMEN'S, CHILDREN'S, AND INFANTS' OUTER WEARING-APPAREL COMPRISING COATS, SUITS, DRESSES, AND SKIRTS. MAX AINBINDER, Chicago, Ill.
Filed July 12, 1920. Serial No. 134,799. PUBLISHED MARCH 1, 1921.

143,530. LEAD-PENCILS. AMERICAN LEAD PENCIL COMPANY, New York, N. Y.
Filed December 6, 1920. Serial No. 140,628. PUBLISHED FEBRUARY 22, 1921.

143,531. PLAIN AND CRAPE TISSUE-PAPERS, PAPER NAPKINS, AND WAXED PAPERS. AMERICAN TISSUE MILLS, Holyoke, Mass.
Filed December 17, 1920. Serial No. 141,208. PUBLISHED FEBRUARY 22, 1921.

143,532. COTTON GOODS IN THE PIECE. AMERICAN TRADING COMPANY, New York, N. Y.
Filed August 27, 1919. Serial No. 122,035. PUBLISHED NOVEMBER 4, 1919.

143,533. A MALT-SUGAR SYRUP FOR FOOD PURPOSES. ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo.
Filed September 4, 1920. Serial No. 136,823. PUBLISHED MARCH 1, 1921.

143,534. MALT-SUGAR SYRUP FOR FOOD PURPOSES. ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo.
Filed September 4, 1920. Serial No. 136,824. PUBLISHED MARCH 1, 1921.

143,535. ICE-CREAM. ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo., and New Orleans, La.
Filed December 4, 1920. Serial No. 140,581. PUBLISHED MARCH 1, 1921.

143,536. FLAGS. ANNIN & CO., New York, N. Y.
Filed December 23, 1920. Serial No. 141,449. PUBLISHED FEBRUARY 22, 1921.

143,537. STOVE-POLISH. THE ARGYLE CHEMICAL WORKS, INC., Brooklyn, N. Y.
Filed October 29, 1920. Serial No. 138,938. PUBLISHED FEBRUARY 22, 1921.

143,538. ANTISEPTIC SOLUTION TO BE APPLIED TO THE MUCOUS MEMBRANE. ASEPTICO LABORATORIES, INC., Rochester, N. Y.
Filed October 4, 1920. Serial No. 137,871. PUBLISHED FEBRUARY 22, 1921.

143,539. COTTON-SEED MEAL FOR USE AS AN ANIMAL FOOD. ASHCRAFT-WILKINSON COMPANY, Atlanta, Ga.
Filed December 6, 1920. Serial No. 140,630. PUBLISHED MARCH 1, 1921.

143,540. AUTOMOBILE-TRUCK BODIES. ATLAS BODY WORKS, Bridgeport, Conn.
Filed January 4, 1921. Serial No. 141,850. PUBLISHED FEBRUARY 22, 1921.

143,541. FRESH DECIDUOUS AND VINOUS FRUITS. ATWATER FRUIT EXCHANGE, Atwater, Calif.
Filed September 23, 1920. Serial No. 137,507. PUBLISHED MARCH 8, 1921.

143,542. MALT-SYRUP AND HOP COMPOUND FOR USE IN MAKING NON-INTOXICATING, CEREAL BEVERAGES. AUGUSTA ICE & BEVERAGE COMPANY, Augusta, Ga.
Filed September 18, 1920. Serial No. 137,300. PUBLISHED FEBRUARY 22, 1921.

143,543. CHILDREN'S NIGHTGOWNS, SLEEPING-GARMENTS, AND PAJAMAS MADE WITH AND WITHOUT FEET. AUGUST KNITTING CORPORATION, Utica, N. Y.
Filed November 6, 1920. Serial No. 139,245. PUBLISHED FEBRUARY 22, 1921.

143,544. CARBONATED TEA BEVERAGE. ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo.
Filed January 14, 1921. Serial No. 142,243. PUBLISHED FEBRUARY 22, 1921.

143,545. INDICATORS FOR LIQUID-DISPENSING PUMPS. CHARLES S. AYRES, Riverton, N. J.
Filed October 28, 1920. Serial No. 138,885. PUBLISHED FEBRUARY 22, 1921.

143,546. FRESH CITRUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, AND CUMQUATS. CHARLES H. BAKER, Jr., Rochester, N. Y.
Filed November 19, 1920. Serial No. 139,842. PUBLISHED MARCH 8, 1921.

143,547. CANNED FRUITS AND CANNED VEGETABLES. H. A. BAKER, INC., Sumner, Wash.
Filed December 21, 1920. Serial No. 141,349. PUBLISHED MARCH 1, 1921.

143,548. SYNTHETIC TANNING EXTRACT. THE BARRETT COMPANY, New York, N. Y.
Filed August 27, 1920. Serial No. 136,545. PUBLISHED FEBRUARY 22, 1921.

143,549. WALL-PAPER. BAZILLE & PARTRIDGE, INC., St. Paul, Minn.
Filed March 26, 1920. Serial No. 130,196. PUBLISHED FEBRUARY 22, 1921.

143,550. COTTON PIECE GOODS. HYMAN BAUMAN & Co., New York, N. Y.
Filed October 27, 1920. Serial No. 138,855. PUBLISHED MARCH 1, 1921.

143,551. COTTON PIECE GOODS. HYMAN BAUMAN & Co., New York, N. Y.
Filed October 27, 1920. Serial No. 138,856. PUBLISHED MARCH 1, 1921.

143,552. UMBRELLAS, PARASOLS, AND CANES. WILLIAM HENRY BEEHLER, Baltimore, Md.
Filed December 7, 1920. Serial No. 140,706. PUBLISHED JANUARY 18, 1921.

143,553. WHEAT-FLOUR. BERNET, CRAFT & KAUFFMAN MILLING COMPANY, St. Louis, Mo.
Filed September 24, 1920. Serial No. 137,565. PUBLISHED MARCH 1, 1921.

143,554. CERTAIN PORTABLE AND OTHER MACHINERY. THE BLACK & DECKER MANUFACTURING Co., Baltimore, Md.
Filed November 24, 1920. Serial No. 140,092. PUBLISHED FEBRUARY 22, 1921.

143,555. CANDY. VAL. BLATZ JR. CANDY CO., Milwaukee, Wis.
Filed November 1, 1920. Serial No. 139,021. PUBLISHED MARCH 1, 1921.

143,556. CHILDREN'S, MISSES', AND WOMEN'S DRESSES, SUITS, AND COATS. LOUIS BOGEN, New York, N. Y.
Filed November 15, 1920. Serial No. 139,662. PUBLISHED MARCH 8, 1921.

143,557. LADIES', CHILDREN'S, AND INFANTS' DRESSES AND SKIRTS. SAMUEL BORGER, New York, N. Y.
Filed November 11, 1920. Serial No. 139,507. PUBLISHED MARCH 8, 1921.

143,558. CERTAIN NAMED TOILET PREPARATIONS. GEO. BORGFELDT & CO., New York, N. Y.
Filed August 26, 1920. Serial No. 136,505. PUBLISHED FEBRUARY 22, 1921.

143,559. CANNED FRUIT AND VEGETABLES. BRADT & BEEBE, San Francisco, Calif.
Filed December 21, 1920. Serial No. 141,350. PUBLISHED MARCH 1, 1921.

143,560. TOOTH-PASTE. BRISTOL-MYERS COMPANY, Brooklyn, N. Y.
Filed August 26, 1920. Serial No. 136,502. PUBLISHED FEBRUARY 22, 1921.

143,561. COTTON PIECE GOODS. RICHARD GEE BROTHERTON, Manchester, England.
Filed July 16, 1920. Serial No. 135,035. PUBLISHED MARCH 8, 1921.

143,562. SHOES FOR WOMEN MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed September 9, 1920. Serial No. 136,966. PUBLISHED MARCH 1, 1921.

143,563. SHOES, BOOTS, AND SLIPPERS OF LEATHER, RUBBER, CANVAS, AND COMBINATIONS. BUCKINGHAM & HECHT, San Francisco, Calif.
Filed September 15, 1920. Serial No. 137,196. PUBLISHED FEBRUARY 22, 1921.

143,564. EXTRACT OF BARLEY-MALT FOR BREADSTUFFS AND MALTED MILK. THE BURGER BROS. COMPANY, Cincinnati, Ohio.
Filed December 2, 1920. Serial No. 140,517. PUBLISHED MARCH 8, 1921.

143,565. MEDICATED TONIC FOR POULTRY. CACKLE DUST LABORATORIES, Greenville, S. C.
Filed September 8, 1920. Serial No. 136,936. PUBLISHED FEBRUARY 22, 1921.

143,566. MONTHLY MAGAZINE. CAMP FIRE GIRLS, INC., New York, N. Y.
Filed January 13, 1921. Serial No. 142,196. PUBLISHED FEBRUARY 22, 1921.

143,567. ALL VARIETIES OF FROZEN FISH, SALT FISH, AND SMOKED FISH. CANADIAN FISH & COLD STORAGE CO., LIMITED, Prince Rupert, British Columbia, Canada, and Chicago, Ill.
Filed February 25, 1920. Serial No. 128,878. PUBLISHED MARCH 1, 1921.

143,568. CITRUS FRUITS, INCLUDING ORANGES, GRAPEFRUIT, LIMES, LEMONS, AND AVOCADO-PEARS. JAMES CAPEHART, Point Pleasant, W. Va., and Banyan, Merrits Island, Fla.
Filed November 9, 1920. Serial No. 139,393. PUBLISHED MARCH 8, 1921.

143,569. COOKING-OILS. CAPITOL REFINING CO., South Washington, Va.
Filed December 20, 1920. Serial No. 141,293. PUBLISHED MARCH 1, 1921.

143,570. WALL-PAPER. CINCINNATI WALL PAPER COMPANY, Cincinnati, Ohio.
Filed March 26, 1920. Serial No. 130,212. PUBLISHED FEBRUARY 22, 1921.

143,571. MARSHMALLOW CRÊME AND EGG-POWDER COMPOUND. THE CITIZENS' WHOLESALE SUPPLY COMPANY, Columbus, Ohio.
Filed November 3, 1920. Serial No. 139,111. PUBLISHED FEBRUARY 22, 1921.

143,572. LIQUID ANTISEPTIC FOR INTERNAL AND EXTERNAL USE. JOHN N. COLE, San Francisco, Calif.
Filed September 9, 1920. Serial No. 136,971. PUBLISHED FEBRUARY 22, 1921.

143,573. PEPPERMINT CANDIES. ORON P. COLE, Dover, N. J.
Filed November 17, 1920. Serial No. 139,736. PUBLISHED MARCH 1, 1921.

143,574. AEROPLANES AND CERTAIN NAMED PARTS THEREOF. THE COMMERCIAL AEROPLANE WING SYNDICATE LIMITED, London, England.
Filed August 9, 1920. Serial No. 135,913. PUBLISHED FEBRUARY 22, 1921.

143,575. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GLASS. COUDURIER, FRUCTUS ET DESCHER, Lyon, France.
Filed September 30, 1920. Serial No. 137,764. PUBLISHED FEBRUARY 22, 1921.

143,576. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. COUDURIER, FRUCTUS ET DESCHER, Lyon, France.
Filed September 30, 1920. Serial No. 137,765. PUBLISHED MARCH 8, 1921.

143,577. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. COUDURIER, FRUCTUS ET DESCHER, Lyon, France.
Filed September 30, 1920. Serial No. 137,766. PUBLISHED FEBRUARY 22, 1921.

143,578. CANDY. CURTISS CANDY COMPANY, Chicago, Ill.
Filed December 5, 1919. Serial No. 125,601. PUBLISHED FEBRUARY 22, 1921.

143,579. MONTHLY AND PERIODICAL PUBLICATION. THE CRANE & BREED MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed December 17, 1920. Serial No. 141,214. PUBLISHED FEBRUARY 22, 1921.

143,580. WHEAT AND CORN PRODUCTS—NAMELY, WHEAT-FLOUR AND CORNMEAL. DAHNKE-WALKER MILLING CO., Union City, Tenn.
Filed July 19, 1920. Serial No. 135,138. PUBLISHED MARCH 1, 1921.

143,581. CANDY. THE DE KLYN CANDY CO., Cleveland, Ohio.
Filed December 16, 1920. Serial No. 141,162. PUBLISHED MARCH 1, 1921.

143,582. SALAD-DRESSING. ADELINA DE MARTINO, New York, N. Y.
Filed December 11, 1920. Serial No. 140,920. PUBLISHED MARCH 8, 1921.

143,583. CHOCOLATE CANDY. DILLING & COMPANY, Indianapolis, Ind.
Filed December 16, 1920. Serial No. 141,158. PUBLISHED MARCH 8, 1921.

143,584. CANDY—NAMELY, CHOCOLATE-BARS. DILLING & COMPANY, Indianapolis, Ind.
Filed December 24, 1920. Serial No. 141,483. PUBLISHED MARCH 8, 1921.

143,585. CHOCOLATE-BAR CANDY. DILLING & COMPANY, Indianapolis, Ind.
Filed December 16, 1920. Serial No. 141,160. PUBLISHED MARCH 1, 1921.

143,586. BLOTTING, BOX, COVER, AND TEXT-BOOK PAPERS. DISTRICT OF COLUMBIA PAPER MANUFACTURING COMPANY, Alexandria, Va., and Washington, D. C.
Filed November 11, 1920. Serial No. 139,512. PUBLISHED FEBRUARY 22, 1921.

143,587. CERTAIN NAMED TIRES. THE DUNLOP RUBBER COMPANY LIMITED, London, England.
Filed March 23, 1920. Serial No. 130,091. PUBLISHED FEBRUARY 22, 1921.

143,588. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,743. PUBLISHED FEBRUARY 22, 1921.

143,589. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,744. PUBLISHED FEBRUARY 22, 1921.

143,590. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,745. PUBLISHED FEBRUARY 22, 1921.

143,591. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,746. PUBLISHED FEBRUARY 22, 1921.

143,592. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,749. PUBLISHED FEBRUARY 22, 1921.

143,593. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,750. PUBLISHED FEBRUARY 22, 1921.

143,594. COATED TEXTILE FABRICS. THE DURATEX COMPANY, Newark, N. J.
Filed November 6, 1920. Serial No. 139,255. PUBLISHED FEBRUARY 22, 1921.

143,595. HAIR-NETS. EAST AND WEST TRADING CORPORATION, New York, N. Y.
Filed September 28, 1920. Serial No. 137,699. PUBLISHED MARCH 8, 1921.

143,596. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS AND SHOES OF LEATHER, RUBBER, OR FABRIC. THE EMERSON SHOE COMPANY, Rockland, Mass.
Filed November 6, 1920. Serial No. 139,256. PUBLISHED FEBRUARY 22, 1921.

143,597. CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. THE EMPIRE VARNISH COMPANY, Cleveland, Ohio.
Filed August 30, 1920. Serial No. 136,622. PUBLISHED FEBRUARY 22, 1921.

143,598. ONION-SKIN PAPER. ESLEECK MFG. CO., Turners Falls, Mass.
Filed November 2, 1920. Serial No. 139,077. PUBLISHED FEBRUARY 22, 1921.

143,599. MEN'S SUITS. EVERETT, HEANEY & COMPANY, INC., New York, N. Y.
Filed June 12, 1920. Serial No. 133,618. PUBLISHED MARCH 8, 1921.

143,600. WHEAT-FLOUR, WHEAT GRAHAM, PANCAKE-FLOUR, AND CORNMEAL. THE FAIRBURY MILL & ELEVATOR CO., Fairbury, Nebr.
Filed September 21, 1920. Serial No. 137,409. PUBLISHED MARCH 1, 1921.

143,601. COATED CARDBOARD—VIZ., COATED BLANKS, COATED LITHOGRAPH-BLANKS, COATED RAILROADS, COATED CAR-SIGNBOARDS, AND COATED POST-CARD BOARDS. FALULAH PAPER COMPANY, Fitchburg, Mass.
Filed September 20, 1920. Serial No. 137,368. PUBLISHED FEBRUARY 22, 1921.

143,602. COAT-FRONT PADS MADE OF CUT-OUT CANVAS, BURLAP, OR OTHER SIMILAR MATERIAL. THE FAMOUS COAT FRONT PAD CO., New York, N. Y.
Filed July 22, 1920. Serial No. 135,274. PUBLISHED MARCH 8, 1921.

143,603. FOOT-POWDER. JOSEPH A. FERKO, Philadelphia, Pa.
Filed July 29, 1920. Serial No. 135,560½. PUBLISHED JANUARY 25, 1921.

143,604. PREPARED ROOFING—THAT IS, FELT ROOFING. FORD ROOFING PRODUCTS CO. INC., Wilmington, Del., and Chicago, Ill.
Filed November 11, 1920. Serial No. 139,521. PUBLISHED FEBRUARY 22, 1921.

143,605. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,214. PUBLISHED MARCH 1, 1921.

143,606. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,215. PUBLISHED MARCH 1, 1921.

143,607. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,218. PUBLISHED MARCH 1, 1921.

143,608. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,220. PUBLISHED MARCH 1, 1921.

143,609. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,222. PUBLISHED MARCH 1, 1921.

143,610. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,224. PUBLISHED MARCH 1, 1921.

143,611. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,225. PUBLISHED MARCH 1, 1921.

143,612. MOTION-PICTURE FILMS. CARLETON M. FRASER, Bridgeport, Conn.
Filed November 10, 1920. Serial No. 139,456. PUBLISHED FEBRUARY 22, 1921.

143,613. SAFES, KEYS, LOCKS, SAFE-FITTINGS, AND SAFE INTERIORS AND PARTS THEREOF. THE GENERAL FIREPROOFING CO., Youngstown, Ohio.
Filed August 24, 1920. Serial No. 136,409. PUBLISHED FEBRUARY 22, 1921.

143,614. CANNED GOODS—NAMELY, TOMATOES, STRING-BEANS, AND BLACKBERRIES. GILMERS INCORPORATED, Winston-Salem, N. C.
Filed October 19, 1920. Serial No. 138,491. PUBLISHED FEBRUARY 22, 1921.

143,615. COFFEE. GILMERS INCORPORATED, Winston-Salem, N. C.
Filed October 19, 1920. Serial No. 138,492. PUBLISHED FEBRUARY 22, 1921.

143,616. HOSIERY. THE JOHN M. GIVEN CO., Pittsburgh, Pa.; Chicago, Ill., and New York, N. Y.
Filed November 8, 1920. Serial No. 139,354. PUBLISHED FEBRUARY 22, 1921.

143,617. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS THEREFOR. JOSEPH GLAZER, Fort Worth, Tex.
Filed December 15, 1920. Serial No. 141,101. PUBLISHED FEBRUARY 22, 1921.

143,618. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed August 11, 1920. Serial No. 135,990. PUBLISHED FEBRUARY 22, 1921.

143,619. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed August 11, 1920. Serial No. 135,991. PUBLISHED MARCH 8, 1921.

143,620. HAIR-NETS. S. GLEMBY, INC., New York, N. Y.
Filed August 11, 1920. Serial No. 135,992. PUBLISHED FEBRUARY 22, 1921.

143,621. NON-ALCOHOLIC BEVERAGE CONTAINING MALT. GOLDEN GRAIN JUICE CO., Minneapolis, Minn.
Filed September 23, 1920. Serial No. 137,522. PUBLISHED FEBRUARY 22, 1921.

143,622. FRUIT FILLINGS, MINCE-MEAT, APPLE AND CORN-SYRUP JELLY, APRICOT, FIG, AND RASPBERRY JAM. GOLDMEYER, THIEL & ARNOLD, New York, N. Y.
Filed December 11, 1920. Serial No. 140,939. PUBLISHED MARCH 8, 1921.

143,623. WATERPROOF COATS AND JACKETS AND WATERPROOF BOOTS, SHOES, AND SHOEPACS MADE PARTLY OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed December 26, 1919. Serial No. 126,468. PUBLISHED MARCH 8, 1921.

143,624. PERIODICAL ISSUED MONTHLY BY THE APPLICANT. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 6, 1921. Serial No. 141,902. PUBLISHED FEBRUARY 22, 1921.

143,625. HAIR GROWER OR TONIC. EMMA GOSS, St. Louis, Mo.
Filed September 7, 1920. Serial No. 136,886. PUBLISHED FEBRUARY 22, 1921.

143,626. COTTON PIECE GOODS, INCLUDING SHEETINGS. GRANITEVILLE MANUFACTURING COMPANY, Graniteville, S. C., and New York, N. Y.
Filed November 17, 1917. Serial No. 107,433. PUBLISHED MARCH 8, 1921.

143,627. FOOD FOR STOCK, PARTICULARLY FOR RABBITS. GREAT WESTERN MILLING COMPANY, Los Angeles, Calif.
Filed July 28, 1920. Serial No. 135,473. PUBLISHED MARCH 1, 1921.

143,628. CONFECTIONERY—NAMELY, CHOCOLATE-ALMOND BARS. GREIG & GLOVER, INC., Chicago, Ill.
Filed March 22, 1920. Serial No. 130,032. PUBLISHED MARCH 1, 1921.

143,629. NECKTIES. GUEST NECKWEAR COMPANY, INC., Rochester, N. Y.
Filed November 9, 1920. Serial No. 139,395. PUBLISHED MARCH 8, 1921.

143,630. CERTAIN NAMED FOODS. GUYER & CALKINS CO., Freeport, Ill.
Filed October 20, 1920. Serial No. 138,559. PUBLISHED MARCH 1, 1921.

143,631. SILK, LINEN, WOOLEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed October 21, 1920. Serial No. 138,640. PUBLISHED MARCH 1, 1921.

143,632. CRACKERS. THE HAMPTON CRACKER CO., Madison, Ind.
Filed August 28, 1920. Serial No. 136,589. PUBLISHED MARCH 1, 1921.

143,633. LADIES' SUITS, WAISTS, HOSIERY, AND UNDERCLOTHES OF ONE AND TWO PIECES. HARRODS (NORTH AMERICA) LTD., New York, N. Y.
Filed October 20, 1920. Serial No. 138,562. PUBLISHED MARCH 1, 1921.

143,634. MEN'S OVERCOATS. HARRODS (NORTH AMERICA) LTD., New York, N. Y.
Filed October 20, 1920. Serial No. 138,564. PUBLISHED MARCH 1, 1921.

143,635. MEN'S OVERCOATS. HARRODS (NORTH AMERICA) LTD., New York, N. Y.
Filed October 20, 1920. Serial No. 138,565. PUBLISHED MARCH 1, 1921.

143,636. MEN'S AND BOY'S HATS AND CAPS. THE HATTER'S CLEARING HOUSE, INC., New York, N. Y.
Filed November 1, 1920. Serial No. 139,037. PUBLISHED MARCH 8, 1921.

143,637. CORSETS. JAMES A. HEARN & SON, INC., New York, N. Y.
Filed October 16, 1919. Serial No. 123,851. PUBLISHED MARCH 8, 1921.

143,638. CERTAIN ARTICLES OF CLOTHING. JAMES A. HEARN & SON, INC., New York, N. Y.
Filed June 3, 1920. Serial No. 133,215. PUBLISHED MARCH 8, 1921.

143,639. PREPARED CAKE-FLOUR. HECKER CEREAL COMPANY, New York, N. Y.
Filed December 9, 1920. Serial No. 140,839. PUBLISHED MARCH 8, 1921.

143,640. WHEAT-FLOUR. HEID BROS. INC., El Paso, Tex.
Filed November 26, 1920. Serial No. 140,178. PUBLISHED MARCH 1, 1921.

143,641. FRESH POTATOES. LOUIS H. HELLMANN, New York, N. Y.
Filed October 6, 1920. Serial No. 138,009. PUBLISHED FEBRUARY 22, 1921.

143,642. CORSETS. THE HERZFELD-PHILLIPSON COMPANY, Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,030. PUBLISHED MARCH 8, 1921.

143,643. MEN'S AND BOYS' CLOTHING CONSISTING OF COATS, TROUSERS, AND VESTS. THE HERZFELD-PHILLIPSON COMPANY, Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,031. PUBLISHED MARCH 8, 1921.

143,644. TEA COMPOSED OF HERBS AND PLANTS. YETTA HILLINGER, Vallejo, Calif.
Filed April 19, 1920. Serial No. 131,325. PUBLISHED MARCH 1, 1921.

143,645. EGGS AND LIVE AND DRESSED POULTRY. GEORGE F. HINRICHS, INCORPORATED, New York, N. Y.
Filed September 13, 1920. Serial No. 137,125. PUBLISHED MARCH 8, 1921.

143,646. LADIES' COTTON AND WOOLEN OUTING-SUITS CONSISTING OF COATS, CAPS, HATS, AND RIDING-BREECHES. CAL HIRSCH & SONS MERCANTILE CO., St. Louis, Mo., and Los Angeles, Calif.
Filed October 28, 1920. Serial No. 138,904. PUBLISHED MARCH 1, 1921.

143,647. WORSTED AND WOOLEN TEXTILE FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed September 29, 1920. Serial No. 137,731. PUBLISHED MARCH 8, 1921.

143,648. SYRUPS FOR FOOD PRODUCTS, CANNED FRUITS, BOUILLONS, AND A PREPARATION OF MILK, COCOA, AND SUGAR FOR PREPARING HOT CHOCOLATE OR COCOA BY THE ADDITION OF WATER. H. B. HUNTER CO., INC., Norfolk, Va.
Filed August 30, 1920. Serial No. 136,629. PUBLISHED FEBRUARY 22, 1921.

143,649. FRUIT EMULSIONS, PASTES, PIE FILLERS, ICINGS, POWDERED MILK AND EGG PREPARATIONS, JELLY POWDERS. THE INTERNATIONAL COMPANY, Baltimore, Md.
Filed June 14, 1920. Serial No. 133,672. PUBLISHED SEPTEMBER 14, 1920.

143,650. COLORING-POWDERS FOR FOODS. THE INTERNATIONAL COMPANY, Baltimore, Md.
Filed September 7, 1920. Serial No. 136,893. PUBLISHED FEBRUARY 22, 1921.

143,651. SHOES MADE OF LEATHER FOR MEN, WOMEN, AND CHILDREN. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed February 20, 1920. Serial No. 128,686. PUBLISHED MARCH 1, 1921.

143,652. BUTTER. IOWA GRAIN & PRODUCE CO., Burlington, Iowa.
Filed August 11, 1920. Serial No. 135,994. PUBLISHED FEBRUARY 22, 1921.

143,653. CORSETS, BRASSIÈRES, BUST-SUPPORTERS, GARTERS, BANDEAUX, AND CORSET-WAISTS. IVY CORSET COMPANY, Worcester, Mass.
Filed November 24, 1920. Serial No. 140,122. PUBLISHED MARCH 8, 1921.

143,654. OVERALLS FOR CHILDREN. JOBBERS OVERALL CO., INC., Lynchburg, Va.
Filed November 24, 1920. Serial No. 140,123. PUBLISHED MARCH 8, 1921.

143,655. NON-FERROUS CASTINGS MADE IN PERMANENT MOLDS. KEYSTONE DIE CASTING CO., Norristown, Pa.
Filed November 10, 1920. Serial No. 139,459. PUBLISHED FEBRUARY 22, 1921.

143,656. NON-FERROUS CASTINGS MADE IN PERMANENT MOLDS. KEYSTONE DIE CASTING CO., Norristown, Pa.
Filed November 10, 1920. Serial No. 139,460. PUBLISHED FEBRUARY 22, 1921.

143,657. COTTON PIECE GOODS. JOHN P. KING MFG. CO., Augusta, Ga.
Filed October 2, 1920. Serial No. 137,837. PUBLISHED FEBRUARY 22, 1921.

143,658. EGG SUBSTITUTE FOR BAKING AND COOKING. HARRY V. KNIGHT, Chester, S. C.
Filed July 26, 1920. Serial No. 135,426. PUBLISHED MARCH 1, 1921.

143,659. BREAD. GEORGE O. KOLB, Hartford, Conn.
Filed October 3, 1919. Serial No. 123,388. PUBLISHED MARCH 8, 1921.

143,660. MEDICINE FOR KIDNEY, LIVER, AND STOMACH DISORDERS. KOLLINS CHEMICAL CO., Robesonia, Pa.
Filed August 26, 1920. Serial No. 136,523. PUBLISHED FEBRUARY 22, 1921.

143,661. CANNED VEGETABLES—NAMELY, CANNED PEAS, CANNED BEANS, AND CANNED CORN—AND CANNED APPLES. LAKE ODESSA CANNING CO., Lake Odessa, Mich.
Filed March 15, 1920. Serial No. 129,729. PUBLISHED FEBRUARY 22, 1921.

143,662. SUGAR WAFERS. THE LAKESIDE BISCUIT CO., Toledo, Ohio.
Filed December 16, 1920. Serial No. 141,175. PUBLISHED FEBRUARY 22, 1921.

143,663. AUTOMATIC OIL-CUPS. GUY S. LANE, Philadelphia, Pa.
Filed October 22, 1920. Serial No. 138,679. PUBLISHED FEBRUARY 22, 1921.

143,664. LADIES' TRIMMED HATS. LAUREL HAT CO., New York, N. Y.
Filed December 2, 1919. Serial No. 125,507. PUBLISHED MARCH 8, 1921.

143,665. FRESH CITRUS FRUIT. L. W. LEE & CO., Tampa, Fla.
Filed December 7, 1920. Serial No. 140,733. PUBLISHED MARCH 8, 1921.

143,666. FIREPROOFING LIQUIDS. LEIGHTON AND GARLAND, Seattle, Wash.
Filed September 15, 1920. Serial No. 137,227. PUBLISHED FEBRUARY 22, 1921.

143,667. LEATHER BOOTS AND SHOES. LEONARD & BARROWS, Middleboro and Boston, Mass.
Filed March 13, 1920. Serial No. 129,637. PUBLISHED MARCH 1, 1921.

143,668. PIECE GOODS MADE WITH A COTTON WARP AND A FILLING OF WOOL, &C. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed October 15, 1920. Serial No. 138,325. PUBLISHED MARCH 1, 1921.

143,669. PIECE GOODS MADE WITH A COTTON WARP AND A FILLING OF WOOL, &C. LESHER WHITMAN & CO., INC., New York, N. Y.
Filed October 15, 1920. Serial No. 138,326. PUBLISHED MARCH 1, 1921.

143,670. PIECE GOODS, MADE WITH A COTTON WARP AND A FILLING OF WOOL, &C. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed October 15, 1920. Serial No. 138,327. PUBLISHED MARCH 1, 1921.

143,671. WHEAT-FLOUR. LIBERTY MILLS, Nashville, Tenn.
Filed September 9, 1920. Serial No. 136,984. PUBLISHED MARCH 8, 1921.

143,672. WORK-SHIRTS. LIBERTY SHIRT MILLS, Granite Falls, N. C.
Filed July 19, 1920. Serial No. 135,151. PUBLISHED FEBRUARY 1, 1921.

143,673. ELECTRIC LIGHT AND POWER PLANTS. LINDERMAN STEEL & MACHINE CO., Dayton, Ohio.
Filed September 7, 1920. Serial No. 136,898. PUBLISHED FEBRUARY 22, 1921.

143,674. CHEWING-GUM. LISTERATED GUM CORPORATION, New York, N. Y.
Filed October 7, 1920. Serial No. 138,055. PUBLISHED MARCH 8, 1921.

143,675. WOMEN'S, MISSES', AND CHILDREN'S HATS. JOSEPH LOEB COMPANY, Cincinnati, Ohio.
Filed April 10, 1920. Serial No. 130,966. PUBLISHED AUGUST 17, 1920.

143,676. LEATHER SHOES AND JULIETTES. LUNN & SWEET COMPANY, Auburn, Me.
Filed November 9, 1920. Serial No. 139,403. PUBLISHED FEBRUARY 22, 1921.

143,677. MEDICINE USED IN THE TREATMENT OF TIRED AND ACHING FEET. OLAF E. LEE, Los Angeles, Calif.
Filed September 4, 1920. Serial No. 136,843. PUBLISHED FEBRUARY 22, 1921.

143,678. PUBLICATION WHICH IS PUBLISHED MONTHLY. WILLIAM E. MCCASLIN, Cleveland, Ohio.
Filed December 17, 1920. Serial No. 141,239. PUBLISHED FEBRUARY 22, 1921.

143,679. RAW DRY MILK. THE MACKAYWOOD COMPANY, New Rochelle, N. Y.
Filed December 14, 1920. Serial No. 141,074. PUBLISHED FEBRUARY 22, 1921.

143,680. CANDY. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio.
Filed December 7, 1920. Serial No. 140,734. PUBLISHED MARCH 8, 1921.

143,681. MEN'S HATS. R. H. MACY & CO., INC., New York, N. Y.
Filed April 14, 1920. Serial No. 131,117. PUBLISHED FEBRUARY 22, 1921.

143,682. CANNED VEGETABLES, KRAUT, AND PORK AND BEANS. MARSHALL CANNING CO., Marshalltown, Iowa.
Filed October 5, 1920. Serial No. 137,950. PUBLISHED FEBRUARY 22, 1921.

143,683. PROPHYLACTIC OINTMENT. MENLEY & JAMES, LIMITED, New York, N. Y.
Filed September 11, 1920. Serial No. 137,085. PUBLISHED FEBRUARY 22, 1921.

143,684. FIRE DOORS AND SHUTTERS. MERCHANT & EVANS COMPANY, Philadelphia, Pa.
Filed December 17, 1920. Serial No. 141,237. PUBLISHED FEBRUARY 22, 1921.

143,685. FISH, CANNED AND CURED. LARS MIKKELSEN, Seattle, Wash.
Filed June 16, 1920. Serial No. 133,791. PUBLISHED MARCH 8, 1921.

143,686. CORSETS. MILLS CORSET COMPANY, Chicago, Ill.
Filed November 23, 1920. Serial No. 140,046. PUBLISHED MARCH 8, 1921.

143,687. WHEAT-FLOUR. EL RENO MILL & ELEVATOR CO., El Reno, Okla.
Filed December 17, 1920. Serial No. 141,221. PUBLISHED FEBRUARY 22, 1921.

143,688. OIL EMULSION USED FOR THE TREATMENT OF COTTON. THE MOORE OIL REFINING COMPANY, Cincinnati, Ohio.
Filed September 14, 1920. Serial No. 137,178. PUBLISHED FEBRUARY 22, 1921.

143,689. STEEL RESTORING AND HARDENING COMPOUND. MORAN, MCELLER & MORRIS, Philadelphia, Pa.
Filed September 9, 1920. Serial No. 136,987. PUBLISHED FEBRUARY 22, 1921.

143,690. CRUSHED OYSTER AND CLAM SHELLS FOR POULTRY FEED. THE LEO B. MULL CO., Cedar Rapids, Iowa.
Filed December 7, 1920. Serial No. 140,735. PUBLISHED FEBRUARY 22, 1921.

143,691. WHEAT-FLOUR. NASHVILLE ROLLER MILLS, Nashville, Tenn.
Filed December 7, 1920. Serial No. 140,738. PUBLISHED FEBRUARY 25, 1921.

143,692. PAJAMAS AND NIGHT-SHIRTS. MEYER NATELSON, New York, N. Y.
Filed November 17, 1920. Serial No. 139,747. PUBLISHED MARCH 8, 1921.

143,693. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed November 26, 1920. Serial No. 140,198. PUBLISHED MARCH 1, 1921.

143,694. SANITARY HUMAN-HAIR NETS. NATIONAL COMMODITIES CO., Philadelphia, Pa.
Filed November 2, 1920. Serial No. 139,085. PUBLISHED MARCH 8, 1921.

143,695. MALTED SYRUP FOR TABLE USE. NATIONAL PRODUCTS COMPANY, Cedar Rapids, Iowa.
Filed September 26, 1919. Serial No. 123,196. PUBLISHED FEBRUARY 15, 1921.

143,696. TABLE-NAPKINS, TABLE-COVERS, AND DOILIES MADE OF PAPER. NEBEN MANUFACTURING COMPANY, INC., New York, N. Y.
Filed August 25, 1920. Serial No. 136,488. PUBLISHED FEBRUARY 22, 1921.

143,697. BOND-PAPER FOR LEDGER, DRAWING, WRITING, AND WRAPPING PURPOSES. NEENAH PAPER CO., Neenah, Wis.
Filed September 18, 1920. Serial No. 137,329. PUBLISHED FEBRUARY 22, 1921.

143,698. BOYS' SHOES MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. NEENAH SHOE COMPANY, Neenah, Wis.
Filed October 22, 1920. Serial No. 138,685. PUBLISHED FEBRUARY 22, 1921.

143,699. SUITS, COATS, HATS, AND WRAPS FOR LADIES. JOS. NEY & SONS CO., Harrisonburg, Va.
Filed May 25, 1920. Serial No. 132,935. PUBLISHED MARCH 1, 1921.

143,700. ROASTED COFFEE. NORTHWESTERN DISTRIBUTING CO., Billings, Mont.
Filed September 25, 1920. Serial No. 137,627. PUBLISHED MARCH 1, 1921.

143,701. ROASTED COFFEE. NORTHWESTERN DISTRIBUTING CO., Billings, Mont.
Filed September 25, 1920. Serial No. 137,628. PUBLISHED MARCH 1, 1921.

143,702. SLEEPING-GARMENTS. OPPENHEIM, OBERNDORF & CO. INC., Baltimore, Md.
Filed December 23, 1919. Serial No. 126,391. PUBLISHED MARCH 8, 1921.

143,703. SLEEPING-GARMENTS. OPPENHEIM, OBERNDORF & CO., INC., Baltimore, Md.
Filed December 23, 1919. Serial No. 126,392. PUBLISHED MARCH 8, 1921.

143,704. CANE AND MAPLE SYRUP. PACIFIC COAST SYRUP CO., San Francisco, Calif.
Filed July 31, 1920. Serial No. 135,660. PUBLISHED FEBRUARY 22, 1921.

143,705. VEHICLE-WHEELS. THE PACKARD ENGINEERING COMPANY, Cleveland, Ohio, assignor to George W. Smith & Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania.
Filed July 13, 1920. Serial No. 134,912. PUBLISHED JANUARY 25, 1921.

143,706. LEATHER FILLET. PAGE BELTING COMPANY, Concord, N. H.
Filed October 27, 1920. Serial No. 138,874. PUBLISHED FEBRUARY 22, 1921.

143,707. MARKING-DIES. PANNIER BROS. STAMP CO., Pittsburgh, Pa.
Filed October 2, 1920. Serial No. 137,853. PUBLISHED FEBRUARY 22, 1921.

143,708. HAMS, BACON, AND LARD. F. E. PATRICK YOUNG CO., Richmond, Va.
Filed February 5, 1920. Serial No. 128,014. PUBLISHED MARCH 8, 1921.

143,709. SOAP. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,140. PUBLISHED FEBRUARY 22, 1921.

143,710. GRAPE-SYRUP USED FOR FOOD PURPOSES. S. V. PEISER & COMPANY, San Francisco, Calif.
Filed November 23, 1920. Serial No. 140,062. PUBLISHED MARCH 8, 1921.

143,711. HOSIERY. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed November 12, 1920. Serial No. 139,594. PUBLISHED MARCH 8, 1921.

143,712. WHEAT-FLOUR. THE KANSAS FLOUR MILLS COMPANY, Sleepy Eye, Minn.
Filed October 19, 1920. Serial No. 138,500. PUBLISHED MARCH 1, 1921.

143,713. MONTHLY PUBLICATION. PERFUMER PUBLISHING COMPANY, New York, N. Y.
Filed December 4, 1920. Serial No. 140,608. PUBLISHED FEBRUARY 22, 1921.

143,714. PRINT-PAPER. PERKINS, GOODWIN CO., New York, N. Y.
Filed December 1, 1920. Serial No. 140,504. PUBLISHED FEBRUARY 22, 1921.

143,715. HAIR-NETS. S. S. PIERCE CO., Boston, Mass.
Filed September 14, 1920. Serial No. 137,180. PUBLISHED FEBRUARY 22, 1921.

143,716. CHEWING-GUM. PIRODENT CORPORATION, Detroit, Mich.
Filed November 20, 1920. Serial No. 139,907. PUBLISHED MARCH 1, 1921.

143,717. BOOTS AND SHOES MADE OF LEATHER. PLATIN BROS. SHOE CO., Boston, Mass.
Filed December 3, 1919. Serial No. 125,543. PUBLISHED MARCH 1, 1921.

143,718. MOUTH-WASHES. THE PRO-CIDE COMPANY, Wilkes-Barre, Pa.
Filed September 9, 1920. Serial No. 136,996. PUBLISHED FEBRUARY 22, 1921.

143,719. ICE-CREAM. ABNER PROCTOR MCLENDON, Waco, Tex.
Filed December 11, 1920. Serial No. 140,952. PUBLISHED MARCH 1, 1921.

143,720. KNITTED COTTON PADDING. THE PROSPERITY COMPANY, INC., assignor to Philip N. Braun, Syracuse, N. Y.
Filed January 2, 1920. Serial No. 126,744. PUBLISHED MARCH 8, 1921.

143,721. CHOCOLATE AND VANILLA CORN-STARCH PUDDINGS. THE RATH MANUFACTURING COMPANY, Philadelphia, Pa.
Filed November 27, 1920. Serial No. 140,350. PUBLISHED MARCH 8, 1921.

143,722. OINTMENT FOR TREATMENT OF ECZEMA AND ALL SKIN DISEASES. RAW-ZEMA CO., Fremont, Nebr.
Filed September 10, 1920. Serial No. 137,041. PUBLISHED FEBRUARY 22, 1921.

143,723. FRESH CITRUS FRUITS. REDLANDS HEIGHTS ORCHARDS, LTD., Redlands, Calif.
Filed December 7, 1920. Serial No. 140,752. PUBLISHED MARCH 1, 1921.

143,724. CANNED FRUITS. REEDLEY CANNING CO., Reedley, Calif.
Filed December 21, 1920. Serial No. 141,394. PUBLISHED MARCH 1, 1921.

143,725. CANNED FRUITS. REEDLEY CANNING CO., Reedley, Calif.
Filed December 21, 1920. Serial No. 141,398. PUBLISHED MARCH 1, 1921.

143,726. CANNED FRUITS. REEDLEY CANNING CO., Reedley, Calif.
Filed December 21, 1920. Serial No. 141,397. PUBLISHED MARCH 1, 1921.

143,727. CERTAIN NAMED MEDICINAL PREPARATION. REHO DRUG MANUFACTURING COMPANY, Bartow, Fla.
Filed August 21, 1920. Serial No. 136,339. PUBLISHED DECEMBER 28, 1920.

143,728. PREPARATION FOR RESTORING THE NATURAL COLOR OF THE HAIR. FELIX MARTIN ESPINOSA-RENDON, Laredo, Tex.
Filed August 25, 1920. Serial No. 136,482. PUBLISHED FEBRUARY 22, 1921.

143,729. BAKERY PRODUCTS—VIZ., FANCY CAKES AND COOKIES. S. A. REYNOLDS, Kansas City, Mo.
Filed October 28, 1920. Serial No. 138,923. PUBLISHED FEBRUARY 22, 1921.

143,730. CAMBRICS IN THE PIECE. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed October 2, 1920. Serial No. 137,855. PUBLISHED FEBRUARY 22, 1921.

143,731. SMOKED MEATS. ROHE & BROTHER, New York, N. Y.
Filed November 18, 1920. Serial No. 139,819. PUBLISHED FEBRUARY 22, 1921.

143,732. CHILDREN'S DRESSES, ROMPERS, CREEPERS, AND SUITS. ROSENAU BROS. INC., Philadelphia, Pa.
Filed August 18, 1920. Serial No. 136,239. PUBLISHED MARCH 8, 1921.

143,733. CANDY. LOUIS ROSENBLOOM, Rockland, Me.
Filed October 18, 1920. Serial No. 138,455. PUBLISHED MARCH 1, 1921.

143,734. LADIES' AND MISSES' UNDERWEAR OF TEXTILE FABRIC IN ONE, TWO, AND THREE PIECE GARMENTS. D. ROSENBERG & Co., New York, N. Y.
Filed November 2, 1920. Serial No. 139,093. PUBLISHED MARCH 1, 1921.

143,735. CERTAIN NAMED SPINDLE-BANDINGS, WEBS, CLUTCH-FACINGS, AND CONE-FACINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed July 16, 1920. Serial No. 135,065. PUBLISHED DECEMBER 14, 1920.

143,736. AIR-WASHERS. THE R-W COMPANY, Chicago, Ill.
Filed October 25, 1920. Serial No. 138,781. PUBLISHED FEBRUARY 22, 1921.

143,737. COTTON-SEED FOR PLANTING PURPOSES. SAN MARCOS COTTON BREEDING FARMS, San Marcos, Tex.
Filed October 2, 1920. Serial No. 137,865. PUBLISHED FEBRUARY 22, 1921.

143,738. DRESSINGS OR SAUCES FOR ICES, PUDDINGS, BREAKFAST CEREALS, &c., AND FILLERS FOR CONFECTIONERY, PASTRY, AND THE LIKE. JOHN H. SASSEEN, Houston, Tex., assignor to United Food Products Company, Houston, Tex., an Association.
Filed November 22, 1920. Serial No. 139,993. PUBLISHED MARCH 8, 1921.

143,739. SERGE PIECE GOODS. SCHLANG & CO., Brooklyn, N. Y.
Filed September 27, 1920. Serial No. 137,682. PUBLISHED MARCH 8, 1921.

143,740. EYEBROW AND EYELID PREPARATIONS. JULIUS SCHMID, INCORPORATED, New York, N. Y.
Filed September 28, 1920. Serial No. 137,712. PUBLISHED FEBRUARY 22, 1921.

143,741. MINERAL WATERS. SCHWEPPES, LIMITED, London, England.
Filed November 26, 1920. Serial No. 140,213. PUBLISHED FEBRUARY 22, 1921.

143,742. COTTON PIECE GOODS—NAMELY, ROMPER-CLOTH. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 30, 1920. Serial No. 139,008. PUBLISHED MARCH 1, 1921.

143,743. SWEATER-COATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 30, 1920. Serial No. 139,010. PUBLISHED FEBRUARY 22, 1921.

143,744. BUTTER. JOHN A. SEEDS, Jr., Philadelphia, Pa.
Filed December 4, 1920. Serial No. 140,617. PUBLISHED FEBRUARY 8, 1921.

143,745. HAIR-NETS. N. SELIGMAN MERCHANDISE CO. INC., New York, N. Y.
Filed September 13, 1920. Serial No. 137,155. PUBLISHED MARCH 1, 1921.

143,746. CERTAIN NAMED GROUND OR FLOORING WEARING-SURFACE COMPOUND. MELL D. SHANNON, Sacramento, Calif.
Filed October 8, 1920. Serial No. 138,102. PUBLISHED FEBRUARY 22, 1921.

143,747. NECKTIES AND CRAVATS. H. J. SILBERMAN & Co., New York, N. Y.
Filed February 4, 1920. Serial No. 127,979. PUBLISHED MARCH 1, 1921.

143,748. MONTHLY JOURNAL DEVOTED TO THE INTERESTS OF THE COFFEE, TEA, AND ALLIED TRADES. THE SPICE MILL PUBLISHING CO., New York, N. Y.
Filed December 30, 1920. Serial No. 141,699. PUBLISHED FEBRUARY 22, 1921.

143,749. MONTHLY JOURNAL DEVOTED TO THE INTERESTS OF THE COFFEE, TEA, AND ALLIED TRADES. THE SPICE MILL PUBLISHING CO., New York, N. Y.
Filed December 30, 1920. Serial No. 141,700. PUBLISHED FEBRUARY 22, 1921.

143,750. OLEOMARGARIN. HAMMOND STANDISH & CO., Detroit, Mich.
Filed December 7, 1920. Serial No. 140,724. PUBLISHED FEBRUARY 22, 1921.

143,751. RIBBONS—NAMELY, SILK RIBBONS AND RIBBONS WHICH ARE PART SILK. J. W. STREETON COMPANY, New York, N. Y.
Filed May 20, 1920. Serial No. 132,711. PUBLISHED MARCH 8, 1921.

143,752. WATER-SOFTENER. THE SUDLESS PRODUCTS COMPANY, Cleveland, Ohio.
Filed September 13, 1920. Serial No. 137,151. PUBLISHED FEBRUARY 22, 1921

143,753. LADIES' HATS. L. D. SULTZER CO "INC." New York, N. Y.
Filed October 20, 1920. Serial No. 138,598. PUBLISHED MARCH 1, 1921.

143,754. PIECE GOODS—NAMELY, SILK DRESS GOODS, SILK COAT-LININGS, SILK MATERIALS FOR LADIES' UNDERGARMENTS. SUSQUEHANNA SILK MILLS, New York, N. Y.
Filed March 16, 1920. Serial No. 129,813. PUBLISHED MARCH 8, 1921.

143,755. CANNED FRUITS AND CANNED VEGETABLES. TALBOT PACKING & PRESERVING CO., Easton, Md.
Filed November 6, 1920. Serial No. 139,327. PUBLISHED FEBRUARY 22, 1921.

143,756. CITRUS-FRUIT CONFECTION. TAYLOR'S, Santa Ana, Calif.
Filed November 22, 1919. Serial No. 125,199. PUBLISHED MARCH 8, 1921.

143,757. FRESH APPLES. R. A. TEDFORD & COMPANY, Wenatchee, Wash.
Filed November 6, 1920. Serial No. 139,328. PUBLISHED FEBRUARY 22, 1921.

143,758. GASOLENE, KEROSENE, NAPHTHA, LUBRICATING-OILS, MINERAL WAX, AND LUBRICATING-GREASE. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y.
Filed August 28, 1920. Serial No. 136,610. PUBLISHED FEBRUARY 22, 1921.

143,759. SHOES MADE OF CANVAS AND LEATHER AND COMBINATION OF BOTH. TRUITT BROTHERS, INC., Binghamton, N. Y.
Filed September 27, 1920. Serial No. 137,685. PUBLISHED FEBRUARY 15, 1921.

143,760. BLUING. TWIN CITY MFG. CO., INC., Norfolk, Va.
Filed September 13, 1920. Serial No. 137,158. PUBLISHED FEBRUARY 22, 1921.

143,761. TOMATO SPAGHETTI SAUCE. UMBERTO JOHN BACCARLINO, Fort Lee, N. J.
Filed September 23, 1920. Serial No. 137,514. PUBLISHED FEBRUARY 22, 1921.

143,762. RAZORS AND POCKET-KNIVES. UNITED DRUG COMPANY, Boston, Mass.
Filed November 5, 1920. Serial No. 139,236. PUBLISHED FEBRUARY 22, 1921.

143,763. TRIMMED AND UNTRIMMED HATS FOR WOMEN AND CHILDREN. VOGEL BROS. HAT CO., New York, N. Y.
Filed September 28, 1920. Serial No. 137,717. PUBLISHED FEBRUARY 22, 1921.

143,764. SHINGLES, ROOFING-TILE, ROOFING-SLABS, COMPOSITION ROOFING, ROOFING-CEMENT. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y.
Filed December 13, 1920. Serial No. 141,048. PUBLISHED MARCH 15, 1921.

143,765. HAIR-TONIC, HAIR-DRESSING, DANDRUFF-EXTRACTOR, LIQUID SHAMPOO, TEMPLE-GROWER, AND FACE-LOTION. CARRIE WALLER, North Birmingham, Ala.
Filed August 30, 1920. Serial No. 136,657. PUBLISHED FEBRUARY 22, 1921.

143,766. CHILDREN'S WAIST UNION-SUITS CONSISTING OF SHIRT, DRAWERS AND WAIST. THE E-Z WAIST COMPANY, New York, N. Y.
Filed July 1, 1920. Serial No. 134,466. PUBLISHED MARCH 8, 1921.

143,767. WHEAT-FLOUR. WASHINGTON GRAIN & MILLING CO., Reardan, Wash.
Filed October 29, 1920. Serial No. 138,971. PUBLISHED MARCH 1, 1921.

143,768. TALCUM POWDER, COLD-CREAM, TOOTH-PASTE, AND TOILET WATER. WEICHSEL LABORATORIES, Dallas, Tex.
Filed July 26, 1920. Serial No. 135,439. PUBLISHED FEBRUARY 8, 1921.

143,769. POLISH FOR AUTOMOBILES, FURNITURE, AND ALL VARNISHED SURFACES. ALBERT F. WEISE, Schenectady, N. Y.
Filed November 6, 1920. Serial No. 139,333. PUBLISHED FEBRUARY 22, 1921.

143,770. CHILDREN'S UNDERWEAR-GARMENTS—NAMELY, UNION-SUITS, SHIRTS, DRAWERS, AND UNDERWAISTS. BENJAMIN WEISS, New York, N. Y.
Filed May 27, 1920. Serial No. 133,035. PUBLISHED MARCH 8, 1921.

143,771. HAIR-NETS. WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill.
Filed August 30, 1920. Serial No. 136,658. PUBLISHED MARCH 1, 1921.

143,772. BLANKETS, QUILTS, BEDSPREADS, COMFORTS, COTTON PIECE GOODS, WOOL PIECE GOODS, AND HANDKERCHIEFS. WESTERN DRY GOODS CO., Seattle, Wash.
Filed October 20, 1920. Serial No. 138,611. PUBLISHED MARCH 1, 1921.

143,773. LEDGER AND WRITING PAPERS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed November 15, 1920. Serial No. 139,694. PUBLISHED FEBRUARY 22, 1921.

143,774. LUMBER. WEITZEL LUMBER COMPANY, Philadelphia, Pa.
Filed December 18, 1920. Serial No. 141,288. PUBLISHED FEBRUARY 22, 1921.

143,775. CLEANING-POLISH FOR METAL AND GLASS. WESTERN SIERRA PRODUCTS COMPANY, Pacoima, Calif.
Filed November 15, 1920. Serial No. 139,699. PUBLISHED FEBRUARY 22, 1921.

143,776. CANDIES. STEPHEN F. WHITMAN & SON INC., Philadelphia, Pa.
Filed November 29, 1920. Serial No. 140,419. PUBLISHED MARCH 8, 1921.

143,777. WRITING-PAPER, TABLETS, AND MAILING-ENVELOPS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed November 24, 1920. Serial No. 140,152. PUBLISHED FEBRUARY 22, 1921.

143,778. CANDIES, CHOCOLATES, BONBONS, AND FUDGES. HARRY G. WILLIAMS, Los Angeles, Calif.
Filed November 11, 1920. Serial No. 139,559. PUBLISHED MARCH 8, 1921.

143,779. BUSHINGS FOR MACHINE-TOOLS INCLUDING JIGS. WRIGHT-FISHER BUSHING CORPORATION, Detroit, Mich.
Filed October 28, 1920. Serial No. 138,936. PUBLISHED FEBRUARY 22, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 7, 1921.

143,780. (CLASS 32. FURNITURE AND UPHOLSTERY.) ALLSTEELEQUIP COMPANY, Aurora, Ill. Filed Oct. 21, 1920. Serial No. 138,623.

ALL-STEEL-EQUIP

Particular description of goods.—Shelving, Locker-Cabinets, Filing-Cabinets, and Electrical Switch-Boxes.
Claims use since Dec. 1, 1911.

143,781. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921. Serial No. 142,601.

Fenwick

Particular description of goods.—Cotton Piece Goods.
Claims use since 1907.

143,782. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921. Serial No. 142,603.

AMORY

Particular description of goods.—Cotton Piece Goods.
Claims use since 1906.

143,783. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ARROWHEAD SPRINGS COMPANY, Los Angeles, Calif. Filed July 17, 1919. Serial No. 120,631.

KWAS

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages, Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Mar. 15, 1916.

143,784. (CLASS 12. CONSTRUCTION MATERIALS.) ASBESTOS PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 25, 1920. Serial No. 137,599.

ASBESTOS Liquid Roofing

Particular description of goods.—Liquid Roofing Composition Consisting of Asphaltic or Bituminous Binder Combined with Asbestos Fiber.
Claims use since May 18, 1918.

143,785. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AVAILABLE TRUCK COMPANY, Chicago, Ill. Filed July 10, 1920. Serial No. 134,769.

Available

Particular description of goods.—Automobile-Trucks.
Claims use since May, 1910.

143,786. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BARKER, MOORE & MEIN MEDICINE COMPANY, Philadelphia, Pa. Filed Nov. 23, 1920. Serial No. 140,016.

BARKER'S

Particular description of goods.—A Dip and Disinfectant for Animals and Poultry and Household Use.
Claims use since about Mar. 15, 1916.

143,787. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BARKER, MOORE & MEIN MEDICINE COMPANY, Philadelphia, Pa. Filed Nov. 23, 1920. Serial No. 140,017.

BARKER'S

Particular description of goods.—A Poultry Disinfectant.
Claims use since about Mar. 15, 1916.

143,788. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. E. BRENNER & CO., New York, N. Y. Filed Feb. 15, 1921. Serial No. 143,583.

JEBANCO PRESSWELL

Particular description of goods.—Cotton Piece Goods.
Claims use since January, 1916.

143,789. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SAMUEL CABOT INCORPORATED, Boston, Mass. Filed Nov. 9, 1920. Serial No. 139,432.

Old Virginia

Particular description of goods.—Ready-Mixed Paints and Tinting Paints and Stains.
Claims use since 1910.

143,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Filed Sept. 15, 1920. Serial No. 137,202.

NUGENT

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1918.

143,791. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YOUNG CHING, Astoria, Oreg. Filed Oct. 22, 1920. Serial No. 138,668.

DR. YOUNG CHING'S

Particular description of goods.—A Medicine for an Itch Treatment.
Claims use since Oct. 1, 1918.

143,792. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton and Spring Grove, Pa. Filed Dec. 30, 1919. Serial No. 126,622.

Georgian

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Dec. 9, 1919.

143,793. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Dec. 23, 1920. Serial No. 141,453.

NATURAL

Particular description of goods.—Soaps.
Claims use since July 31, 1913.

143,794. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Feb. 25, 1921. Serial No. 144,015.

IMPERIAL LILAC

Particular description of goods.—Soaps.
Claims use since Jan. 31, 1910.

143,795. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CURRAN-DETROIT RADIATOR CO., Detroit, Mich. Filed Feb. 12, 1921. Serial No. 143,485.

Curran

Particular description of goods.—Automobile-Radiators.
Claims use since Feb. 1, 1919.

143,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT W. DAVIS, Atlanta, Ga. Filed Oct. 21, 1920. Serial No. 138,632.

MILL FEED THE QUICK



FATTENER

Particular description of goods.—Stock Food.
Claims use since 1907.

143,797. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DETROIT STEERING WHEEL CORP., Detroit, Mich. Filed June 5, 1920. Serial No. 133,301.

Tiltlok

Particular description of goods.—Automobile Steering-Wheels.
Claims use since June 1, 1919.

143,798. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DULLE-MEYER MILLING COMPANY, Chamois, Mo. Filed Mar. 21, 1921. Serial No. 145,011.

Delicate

Particular description of goods.—Wheat-Flour.
Claims use since about Mar. 1, 1920.

143,799. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. AND J. W. ELSWORTH CO., New York, N. Y. Filed Dec. 17, 1920. Serial No. 141,220.

"SELECTS"

Particular description of goods.—Fresh Oysters and Clams.
Claims use since Nov. 7, 1914.

143,800. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) T. C. ESSER COMPANY, Milwaukee, Wis. Filed Nov. 3, 1920. Serial No. 139,117.

GOLDEN

Particular description of goods.—Varnishes and Japans and Oil-Paints and Paint-Oils.
Claims use since June 27, 1916.

143,801. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FIRSTADE LABORATORIES, INC., Tulsa, Okla. Filed Dec. 27, 1919. Serial No. 126,509.

FIRSTADE

Particular description of goods.—Antiseptic Mentholated Cream for Soothing and Healing the Skin and Mucous Membranes.
Claims use since Oct. 7, 1919.

143,802. (CLASS 39. CLOTHING.) THE FOX BROS. MFG. CO., Peru, Ind., and New York, N. Y. Filed Dec. 22, 1920. Serial No. 141,421.

STYLISH STOUT

Particular description of goods.—Undershirts, Drawers, Chemises, Nightgowns, and Petticoats, All of Silk, Cotton, or Wool.
Claims use since Mar. 15, 1917.

143,803. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GERMAIN SEED AND PLANT COMPANY, Los Angeles, Calif. Filed Jan. 12, 1921. Serial No. 142,145.



Particular description of goods.—Vegetable, Flower, Field, and Tree Seeds, Bulbs, and Nursery-Stock.
Claims use since 1911.

143,804. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed Mar. 5, 1921. Serial No. 144,327.

Lovelee

Particular description of goods.—Hair-Nets.
Claims use since May 1, 1917.

143,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BERT GRANTIER, Esperance, N. Y. Filed Nov. 5, 1920. Serial No. 139,205.

GRANTIER MILLS

Particular description of goods.—Buckwheat-Flour.
Claims use since July 10, 1905.

143,806. (CLASS 39. CLOTHING.) HARRIS-POLK HAT COMPANY, St. Louis, Mo. Filed Dec. 17, 1920. Serial No. 141,227.

Quality

Particular description of goods.—Straw Hats.
Claims use since June, 1917.

143,807. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOLMES AUTOMOBILE COMPANY, Canton, Ohio. Filed Apr. 7, 1921. Serial No. 145,829.

HOLMES

Particular description of goods.—Automobiles.
Claims use since March, 1918.

143,808. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE KEENER SAND & CLAY CO., Columbus, Ohio. Filed Nov. 22, 1920. Serial No. 139,961.

GALLIA

Particular description of goods.—Molding-Sand.
Claims use since about Nov. 1, 1908.

143,809. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. EDWARD KENDEL, Cleveland, Ohio. Filed Apr. 1, 1921. Serial No. 145,568.

SHADILAWN

Particular description of goods.—Lawn-Seeds.
Claims use since Feb. 1, 1917.

143,810. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. EDWARD KENDEL, Cleveland, Ohio. Filed Apr. 1, 1921. Serial No. 145,570.

SUNNILAWN

Particular description of goods.—Lawn-Seed.
Claims use since Feb. 1, 1917.

143,811. (CLASS 17. TOBACCO PRODUCTS.) LOUIS KING CIGAR COMPANY, Hartford, Conn. Filed Sept. 22, 1920. Serial No. 137,478.

KING PERFECTOS

Particular description of goods.—Cigars.
Claims use since Aug. 1, 1910.

143,812. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONG HANDKERCHIEF CO. INC., Passaic, N. J., and New York, N. Y. Filed Apr. 2, 1921. Serial No. 145,634.

LIMERICK

Particular description of goods.—Handkerchiefs.
Claims use since about January, 1906.

143,813. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Mar. 28, 1921. Serial No. 145,347.

WHITE BORAX SOAP

Particular description of goods.—Soap.
Claims use since 1918.

143,814. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,287.

Service

Particular description of goods.—Sheets and Pillow-Cases.
Claims use since 1912.

143,815. (CLASS 12. CONSTRUCTION MATERIALS.) METALOID COMPANY, Bayonne, N. J. Filed Jan. 10, 1921. Serial No. 142,023.

"METALOID"

Particular description of goods.—A Dry Powder and a Liquid to be Used Together in Repairing Leaks or Cracks in Lead or Iron Pipes, Water-Backs, Boilers, Radiators, Castings, Stone Washtubs, Sinks, Automobile Cylinders and Radiators, Ammonia-Pipes.
Claims use since Nov. 10, 1917.

143,816. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MICHALITSCHKE BROS. & CO. INC., San Francisco, Calif. Filed Dec. 8, 1920. Serial No. 140,799.

PERFECTION MAIS

Particular description of goods.—Cigarette-Papers.
Claims use since Aug. 30, 1913.

143,817. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) F. S. MILLS CO., INC., Gloversville, N. Y. Filed Oct. 21, 1920. Serial No. 138,635.

"Locktite"

Particular description of goods.—Tobacco-Pouches.
Claims use since January, 1918.

143,818. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 28, 1920. Serial No. 135,524.

LA PARISIENNE

Particular description of goods.—Hand-Mirrors and Picture-Frames.
Claims use since Jan. 1, 1920.

143,819. (CLASS 39. CLOTHING.) MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y. Filed Jan. 20, 1920. Serial No. 127,386.

Roxburgh

Particular description of goods.—Knit Jackets, Sweaters, and Coats.
Claims use since 1907.

143,820. (CLASS 39. CLOTHING.) MORGAN KNITTING MILLS, INC., Newark, N. J., and New York, N. Y. Filed Jan. 31, 1920. Serial No. 127,825.

Teviotdale

Particular description of goods.—Knit Jackets.
Claims use since May 10, 1907.

143,821. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHAM WARREN CORPORATION, New York, N. Y. Filed Sept. 29, 1920. Serial No. 137,744.

DE LUXE

Particular description of goods.—Cuticle-Remover, Nail-Polish in Cake and Paste Form, Rouge, Nail-White, and Cuticle-Salve.
Claims use since 1914.

143,822. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) O'BANNON CORPORATION, Boston, Mass. Filed June 23, 1920. Serial No. 134,087.

NONLEEK DOUBLE TEXTURE TOP FABRIC

Consists of the words "Nonleek Double-Texture Top Fabric," with an underscoring-paraph extending from the serif of the "N" to the serif of the "K" in the word "Nonleek," the lining in the drawing merely representing shading.
Particular description of goods.—Cotton Piece Goods with Rubberized Coating.
Claims use since Feb. 23, 1917.

143,823. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,645.

GRENOBLE

The lining of the drawing is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since May, 1906.

143,824. (CLASS 42. KNITTED NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,646.

MONTAUK

The lining of the drawing is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since December, 1915.

143,825. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,648.

PANAMA

The lining of the drawing is not intended to indicate any particular color.
Particular description of goods.—Cotton Piece Goods.
Claims use since December, 1915.

143,826. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,652.

WESTPHALIA

The lining of the drawing is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since October, 1910.

143,827. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,656.

KILDARE

The lining of the drawing is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 13, 1917.

143,828. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,657.

Westmoreland

The lining of the drawing is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since March, 1917.

143,829. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,659.

MELBOURNE

Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 27, 1916.

143,830. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,661.

Clachan

The lining of the drawing is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since 1911.

143,831. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921. Serial No. 142,666.

ANTRIM

Particular description of goods.—Cotton Piece Goods.
Claims use since Oct. 15, 1902.

143,832. (CLASS 12. CONSTRUCTION MATERIALS.) THE PRASSE LUMBER COMPANY, Cleveland, Ohio. Filed Feb. 2, 1921. Serial No. 143,102.

"WOOD THAT'S GOOD"

Particular description of goods.—Lumber.
Claims use since about January, 1913.

143,833. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PUFFER-HUBBARD MANUFACTURING COMPANY, Minneapolis, Minn. Filed Feb. 7, 1921. Serial No. 143,292.

EASY GRIP

Particular description of goods.—Wheelbarrows.
Claims use since Sept. 1, 1915.

143,834. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SIMPLEX STEEL STAMPING AND MANUFACTURING COMPANY, St. Louis, Mo. Filed June 18, 1920. Serial No. 133,901.

PLA-KAR

Particular description of goods.—Toy Velocipedes.
Claims use since Feb. 16, 1920.

143,835. (CLASS 39. CLOTHING.) TEXTILE PRODUCTS MANUFACTURING COMPANY, St. Louis, Mo. Filed Dec. 27, 1920. Serial No. 141,537.

BETTER BUILT

Particular description of goods.—Overalls, Work-Shirts, Coats, and Work-Pants.
Claims use since May 15, 1919.

143,836. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TILLAMOOK COUNTY CREAMERY ASSOCIATION, Tillamook, Oreg. Filed July 31, 1920. Serial No. 135,672.

Tillamook

Particular description of goods.—Cheese.
Claims use since the middle of April, 1918.

143,837. (CLASS 12. CONSTRUCTION MATERIALS.) THE TRAITEL MARBLE CO., Long Island City, N. Y. Filed Sept. 25, 1920. Serial No. 137,647.



Particular description of goods.—Metal Strips Used in Laying Floors, Walls, or Ceilings of Crushed Stone or other Similar Material.
Claims use since Mar. 1, 1920.

143,838. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed Feb. 15, 1921. Serial No. 143,629.

'Never Creep'

Particular description of goods.—Tire-Patches Made of Fabric and Rubber.
Claims use since September, 1918.

143,839. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WHITALL TATUM COMPANY, New York, N. Y. Filed Oct. 25, 1920. Serial No. 138,798.

SPECIAL

Particular description of goods.—Druggists' Sundries, as Follows: Hot-Water Bottles, Hot-Water Bags, Douche-Bags, Fountain-Syringes, Invalid-Cushions, and Ice-Bags.
Claims use since February, 1900.

143,840. (CLASS 37. PAPER AND STATIONERY.) EDWARD W. WILSON, New York, N. Y. Filed Sept. 29, 1919. Serial No. 123,271.

TELEPHONE ROOM DIRECTORY

Particular description of goods.—The Title of a Blank Publication.
Claims use since Aug. 2, 1915.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

SMITH *v.* WARNOCK. WARNOCK *v.* SMITH.

Decided March 7, 1921.

PATENTS—REDUCTION TO PRACTICE—DATE OF TEST CONTROLLING.

It is the date of the actual test of a machine which determines the date of actual reduction to practice. Therefore, although an inventor may have completed his machine prior to a reduction to practice by his rival, where he did not also subject it to successful test before such reduction to practice he is not entitled to prevail.

Mr. F. L. Chappell and *Mr. Otis A. Earl* for Smith.
Mr. J. H. Milans and *Mr. C. T. Milans* for Warnock.

PATENT appeals Nos. 1,363 and 1,365.

VAN ORSDEL, *J.*:

This is an interference proceeding between an application filed by the party Warnock January 8, 1916, and the application of Smith, filed September 7, 1917. The invention relates to an air-pump. The issue is in seven counts, of which the following are illustrative:

1. In a structure of the class described, the combination of a cylinder, a cylinder head comprising an inner head member having an annular inlet valve seat on its outer face and a plurality of inlet passages opening into said valve seat, and a plurality of cylinder ports, an intermediate head member having an annular discharge valve seat on its outer face and discharge ports opening into said discharge valve seat, said inner and intermediate head members being formed to inclose between them an annular inlet valve chamber into which said cylinder ports open, an outer head member having a recess in its inner face constituting a discharge valve chamber, said chamber being provided with a discharge opening, annular disk-like valves arranged in said valve chambers to coact with said valve seats, and coiled seating springs for said valves, said intermediate and outer head members being provided with bore-like seats for said springs alined with said valves.

2. In a structure of the class described, the combination of a cylinder, a cylinder head comprising an inner head member having an annular inlet valve seat on its outer face and a plurality of inlet passages opening into said valve seat, and a plurality of cylinder ports, an intermediate head member having an annular discharge valve seat on its outer face and discharge ports opening into said discharge valve seat, said inner and intermediate head members being formed to inclose between them an annular inlet valve chamber into which said cylinder ports open, an outer head member having a recess in its inner face constituting a discharge valve chamber, said chamber being provided with a discharge opening and annular disk-like valves arranged in said valve chambers to coact with said valve seats.

3. In a structure of the class described, the combination with a cylinder, of a head therefor comprising a pair of superimposed head members, the inner head member having a valve seat on its outer face, a plurality of inlet ports, said head members being formed to inclose between them an inlet valve chamber into which the cylinder ports open, the superimposed member being provided with a discharge port opening into said inlet valve chamber, a valve for said discharge port, and a disk-like inlet valve.

4. In a structure of the class described, the combination of a cylinder, a cylinder head comprising a pair of superimposed head members formed to inclose between them an annular inlet valve chamber, the inner head member having an annular inlet valve seat in its outer face and a plurality of inlet passages opening into said inlet valve chamber, the superimposed head member being provided with an annular discharge valve seat and discharge ports opening into said valve seat and to said inlet valve chamber, annular disk-like valves arranged to coact with said valve seats, and seating springs for said valves.

The Examiner of Interferences awarded priority as to all of the counts to the party Smith. The Board of Examiners-in-Chief affirmed the Examiner, except as to count 2, which was awarded to Warnock. The Commissioner affirmed the board. From his decision both parties have appealed.

This case turns largely upon the single question of whether the making of certain pumps by Smith amounted to reduction to practice. In 1913 Smith made a pump, known as Exhibit 3, which was found by the tribunals below to contain all the elements set out in counts 3, 5 and 7. Smith contends that the tests made of this machine amounted to a reduction to practice, but it was held below to establish only conception. In December, 1914, Smith built another pump, known as Exhibit 7, which, like Exhibit 3, failed to meet counts 1, 2, 4 and 6. This was followed by the construction and reduction to practice of what is known as Exhibit 13, which failed to meet any of the counts, since they call for annular disklike valves, and this pump contained a flap-valve.

The Board of Examiners-in-Chief, in its opinion holding that Smith had failed to reduce Exhibits 3 and 7 to practice, said:

Smith's Exhibit 7 was built and tested in December, 1914. Like Exhibit 3, it fails to satisfy counts 1, 2, 4 or 6, nor does the testimony to the successful testing of Exhibit 7 in 1914, establish reduction to practice. As in the case of Exhibit 3, the testimony does not bring out with sufficient particularity what the tests showed and the failure to follow up this form of pump at that time and the pushing of Exhibit 13 which does not satisfy any count are more significant than the assertions of the witnesses that the tests were successful.

To this point, we agree with the Commissioner that Smith had failed to reduce to practice the invention in issue. We now come to a pump constructed by Smith in August, 1915, as shown in Blue-Print Exhibits 15 and 17, which meet counts 2, 3, 5 and 7. It did not contain springs and "bore-like seats" called for in count 1, or the springs of counts 4 and 6. This pump was sent by the Union Steam Pump Company, of which Smith was assist-.

ant superintendent, to the Empire Cream Separator Company, where Warnock was employed. We agree with all the tribunals below that the tests made of this pump amounted to a reduction to practice. We think this conclusion is amply supported by the testimony and especially the circumstances of the test. Smith, therefore, is entitled to a date for reduction to practice for a pump as disclosed in Blue-Print 15 as of August, 1915.

The earliest date of conception that can be accorded Warnock is August, 1914. We agree with the Commissioner that what he did in 1914 toward developing a pump did not constitute reduction to practice. Like Smith's Exhibits 3 and 7, it amounted merely to an experiment. Warnock, however, accomplished reduction to practice in September, 1915. He contends that this test was begun in August, but his proof limits him to his Exhibit S, dated September 10, 1915. While it may well be that he had his machine, which was tested out in September, completed in August, it is the actual test that is essential to establish reduction to practice. The patent law recognizes no such thing as reduction to practice *nunc pro tunc*.

Count 2 is limited to inner, intermediate and outer head members, the outer one of which has a recess in its inner face constituting a valve-chamber with a valve located therein. It is also limited to a "plurality of cylinder ports." These features first appeared in exhibits introduced by Warnock and proved to have been made in March, 1915. Smith is not in position to claim conception of these features earlier than his filing date, September 7, 1915. Warnock, therefore, though the last to reduce to practice, was the first to conceive, and, being diligent, he is entitled, as held by the Commissioner, to priority as to count 2.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

SMITH *v.* WARNOCK. WARNOCK *v.* SMITH.

Decided March 7, 1921.

PATENTS—PRIORITY—EVIDENCE.

Evidence considered and priority of invention awarded to Warnock on counts 1 and 2 and to Smith on count 3.

Mr. F. L. Chappell and *Mr. Otis A. Earl* for Smith.

Mr. J. H. Milans and *Mr. C. T. Milans* for Warnock.

PATENT appeals Nos. 1,364 and 1,366.

VAN ORSDEL, *J.*:

This is a companion interference to Nos. 1,363 and 1,365 this day decided. As in that case, it relates to a vacuum-pump. The testimony is in a single record, and applies to both interferences. The issue in the present interference is in three counts, of which the following will serve our present purpose:

1. In a structure of the class described, the combination with a cylinder, of a head therefor comprising a pair of superimposed head members, the inner head member having an annular inlet chamber, an annular valve seat on its outer face, a plurality of inlet ports opening into said valve seat, and a plurality of cylinder ports, said head members being formed to inclose between them an annular inlet valve chamber into which the cylinder ports open, the superimposed member being provided with an annular discharge valve seat and a plurality of discharge ports opening into said discharge valve seat and to said inlet valve chamber, and annular disk-like valves disposed on said seats.

3. In a structure of the class described, the combination with an open ended cylinder, of a head detachably secured thereto and provided with three superimposed chambers, the lower chamber constituting an inlet chamber, the upper chamber constituting a discharge valve chamber, and the intermediate chamber constituting an inlet valve chamber, said head being provided with inlet, outlet, and cylinder ports establishing communication between said inlet valve chamber and said inlet chamber, discharge chamber, and cylinder, respectively, and valves for closing the upper ends of said inlet ports and said discharge ports.

Counts 1 and 2 include a head member with an annular inlet-chamber. It, therefore, appears that Smith's Exhibit 7 machine embodied these counts, but it was not reduced to practice; hence, it merely fixes a date of conception by Smith. Smith's Exhibit 13, which we held was reduced to practice but did not embody any of the counts of the companion interference, since it had a flap-valve, embodies count 3, which is not limited to the annular disk valve, but is broad enough to read upon the Exhibit 13 machine.

It, therefore, follows that, since Smith's machine, as reduced to practice in August, 1915, and his application in the companion case, failed to disclose the annular inlet-chamber as part of the head, he is held to his filing date, March 6, 1917, for constructive reduction to practice of counts 1 and 2. While he may be accorded conception as of the date of the Exhibit 7 machine—December, 1914—he was first to conceive and last to reduce to practice, and, lacking diligence at the time Warnock came into the field, he cannot prevail as to these counts.

Count 3, however, was embodied in the Exhibit 3 and Exhibit 13 machines of Smith. He, therefore, is entitled to the date of the Exhibit 3 device—1913—for conception, and the date of the Exhibit 13 machine—December, 1914—for reduction to practice. Being, therefore, the first to conceive and the first to reduce to practice, he must prevail as to count 3.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

SOLOMON *v.* ROUSSO, (No. 1,403.) SAME *v.* SAME, (No. 1,404.)

Decided April 4, 1921.

1. PATENTS—INTERFERENCE—REDUCTION TO PRACTICE OF TOWEL-RACK—SIMPLE DEVICE.

Proof of the manufacture of a towel-rack *Held* sufficient to establish actual reduction to practice.

2. SAME—COSTS—UNNECESSARY PARTS OF RECORD CARRIED UP FOR REVIEW.

Where the parts of a record sent to the court of appeals by the Patent Office in an interference proceeding in response to a writ of certiorari sued out by appellee have no bearing on the issues presented, all costs on the writ will be taxed against appellee.

Mr. Wm. F. Hall for Solomon.

Mr. J. H. R. Potts for Rousso.

SMYTH, *C. J.*:

These appeals from decisions of the Commissioner of Patents involve the question of priority with respect to an invention defined by the following counts:

Count 1. In a device of the class described, a towel support and a retaining member extending upwardly from said support and then downwardly sufficiently to constitute a suitable guide for a towel while in use, substantially as described.

Count 2. In a device of the class described, a towel support and a retaining member extending upwardly from adjacent the outer edge of said support and then downwardly sufficiently to constitute a suitable guide for a towel while in use, substantially as described.

There were originally four parties—Fetherolf, Solomon, Rousso, and Brigham. Brigham was successful before the Examiner of Interferences, Solomon before the Examiners-in-Chief, and Rousso before the Assistant Commissioner. Solomon alone appeals. We have, therefore, to consider only the controversy between him and Rousso.

The Examiner of Interferences refused to give Solomon any date for conception earlier than December 31, 1912, and held that Rousso was not entitled to a date prior to December 13, 1911. The Examiners-in-Chief held that Rousso had no right to a date earlier than December 22, 1911. Thus they and the Examiner of Interferences are in accord in holding that Rousso is not entitled to any date earlier than December 13, 1911. But the Examiners-in-Chief, differing from the Examiner of Interferences, gave Solomon March, 1911, for reduction to practice. When the Assistant Commissioner came to dispose of the matter he confined Rousso to his filing date, January 12, 1912, but gave him priority over Solomon, saying:

I have hesitatingly reached the conclusion that Solomon's proof should be accepted as establishing that he had the device known as his Exhibit No. 2 in March, 1911, but I do not think that this construction, simple as the invention is, is shown by the proofs to have been actually reduced to practice.

It is not denied that Exhibit 2 embodies the invention. We have seen it at the bar and cannot doubt that it constitutes a full reduction to practice of the device of the issue. When was it manufactured?

Prior to March, 1911, Solomon had a towel-rack similar to Exhibit 2. Davidson testified to this, describing the rack, and then identified Exhibit 2 as the device to which he referred. Jamieson, general manager of the Jamieson Machine Company, testified that he had done considerable work for Solomon and that the latter brought him a towel-rack, which he was unable to describe accurately. Upon being shown Exhibits 1 and 2 he said it was more like the latter. While he could not fix the date on which he saw it, he knew that he bent some rods like the one in Exhibit 2 for Solomon before January, 1911. The witness Lehr said that he saw racks similar to Exhibits 1 and 2 early in 1911, and Ames testified that Solomon disclosed to him a towel-rack which he thought was Exhibit 2, and that this was done a year or two after March 31, 1909, when Solomon signed a contract to furnish towels to a concern with which he was connected. Other witnesses testified to the same effect. Their testimony is set out quite fully and commented upon in the opinion of the Examiners-in-Chief. It establishes to our satisfaction that Solomon manufactured Exhibit 2 as early as March, 1911, and as it constitutes a reduction to practice we feel constrained to reverse the decision of the Assistant Commissioner and award priority to Solomon in both appeals.

Being of the opinion that the parts of the record sent to this court by the Patent Office in response to a writ of certiorari sued out by Rousso have no bearing on the issues presented, we tax all costs on the writ against Rousso.

Reversed.

Mr. Justice HITZ, of the Supreme Court of the District, sat in the place of Mr. Justice ROBB.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Barber patent, No. 781,802, for valves and valve-gear for explosive-engines, claims 8 and 9, covering inlet and exhaust valves so constructed as to be readily removable for cleaning and repair, which is the sole purpose of the invention, *Held* void for anticipation. *Barber* v. *Otis Motor Sales Co.*, 271 Fed. Rep., 171.

(U. S. C. C. A. Pa.) The Luellen patent, No. 1,043,854, claims 1–3 and 6, for a cup-dispensing device, as limited by the prior art, *Held* not infringed. *Sanitary Products Corporation* v. *Individual Drinking Cup Co.*, 271 Fed. Rep., 241.

(U. S. C. C. A. N. Y.) The Treat patent, No. 1,188,024, for an electrical attachment-plug, *Held* void for lack of invention. *Treat* v. *Redtop Electric Co., Inc.*, 271 Fed. Rep., 307.

(U. S. D. C. Ill.) The Nielsen patents, No. 1,268,601, claims 6, 7, and 12–15, and No. 1,268,602, for improvements in means for agitating the contents of a tank by an agitator resembling an ordinary screw-propeller, *Held* invalid, considering the state of the prior art. *Nielsen et al.* v. *Libby, McNeill & Libby*, 271 Fed. Rep., 317.

(U. S. D. C. Pa.) The White patent, No. 1,176,413, for an improvement in terminals for electric wires, *Held* valid when restricted to a construction having a preformed notch or recess, which served the double purpose of effecting a tight connection and permitting more compact construction, but, as so restricted, *Held* not infringed by defendant's device, in which the recess was formed only by tightening the nut on plastic metal. *White* v. *Goodrich-Lenhart Mfg. Co.*, 271 Fed. Rep., 336.

(U. S. D. C. Pa.) The Conrad patent, No. 822,723, for improvement in ball-bearings, *Held* not anticipated and valid, but not infringed by the regrinding of the grooves of old bearings and, where

required, substituting new balls to fit the grooves enlarged by the regrinding which is within the right to make repairs. *Hess-Bright Mfg. Co.* v. *Bearings Co. of Pennsylvania et al.*, 271 Fed. Rep., 350.

(U. S. C. C. A. Mass.) The Gaulin patent, No. 756,953, claim 7, for an apparatus for intimately mixing milk and other liquids, *Held* not invalid as unsupported by the specification, but also *Held* not infringed. *Manton-Gaulin Mfg. Co.* v. *Wright-Ziegler Co. et al.*, 271 Fed. Rep., 391.

(U. S. D. C. N. Y.) The Jakobson patent, No. 919,019, for a safety-cock for gas-burners, *Held* void for lack of invention. *National Safety Gas Cock Co., Inc.*, v. *Consolidated Gas Co. of New York*, 271 Fed Rep., 539.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 27, 1921.

The United States Phonograph Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Pittsburgh Iron Folding Bed Co., 1106 Reedsdale street, Pittsburgh, Pa.; W. P. Mertens Co., Inc., 107 West Main street, Charlottesville, Va., and the Operaphone Co., Inc., Creek and Meadow streets, New York, N. Y., for registration of trade-marks and trade-mark registered May 6, 1913, No. 91,527, to The United States Phonograph Co., and a notice of such declaration sent by registered mail to said The United States Phonograph Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The United States Phonograph Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

Matienzo-Sainz Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of John H. Schroeder, 465 Jackson street, Oshkosh, Wis., and The Cleveland Fruit Juice Company, 1394 West Ninth street, Cleveland, Ohio, for registration of trade-marks and trade-mark registered May 21, 1912, No. 86,607, to Matienzo-Sainz Company, 333 North Water street, Newburgh, N. Y., and a notice of such declaration sent by registered mail to said Matienzo-Sainz Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Matienzo-Sainz Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

The Weaver Brothers and Mott Company of Baltimore City, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Globe Soap Company, Third and Walnut streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 5, 1900, No. 34,749, to The Weaver Brothers and Mott Company of Baltimore City, Baltimore, Md., and a notice of such declaration sent by registered mail to said The Weaver Brothers and Mott Company of Baltimore City at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The Weaver Brothers and Mott Company of Baltimore City, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 28, 1921.

The United States Phonograph Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Federal Phonograph Co., Inc., 653 West Fifty-First street, New York, N. Y., for registration of a trade-mark and trade-mark registered April 11, 1911, No. 81,488, to The United States Phonograph Co., 235 The Arcade, Cleveland, Ohio, and a notice of such declaration sent by registered mail to said The United States Phonograph Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The United States Phonograph Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., May 31, 1921.

Godinez-Marshall Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the General Lamp & Motor Company, Inc., 87 Nassau street, New York, N. Y., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,619, to Godinez-Marshall Company, 257 Broadway, New York, N. Y., and a notice of such declaration sent by registered mail to said Godinez-Marshall Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Godinez-Marshall Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Patents Nos. 1,381,097 to 1,381,896.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 287—No. 2. TUESDAY, JUNE 14, 1921. Price—$5 per year.
[PUBLISHED JUNE 24, 1921.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of June 14, 1921.

Patents	800	No. 1,381,097 to No. 1,381,896	inclusive.
Designs	50	No. 58,126 to No. 58,175	inclusive.
Trade-Marks	38	No. 143,841 to No. 143,878	inclusive.
Labels	20	No. 22,992 to No. 23,020	inclusive.
Prints	14	No. 5,619 to No. 5,632	inclusive.
Reissues	4	No. 15,123 to No. 15,126	inclusive.
Total	935		

Changes in Classification.

(ORDER NO. 2,661.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., May 27, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 1, Nailing and Stapling, (Division XI,) establish the following subclasses and definitions:

Machines—
Box—
8.1. Blank-assembling—
8.2. Wire-bound—
8.3. Tables,
Shoe—
Heel-nailing—
Nail-feeding—
39.1. Single source, gang-delivery.

8.1. MACHINES, BOX, BLANK-ASSEMBLING. Machines which assemble blanks to be used in making boxes and fasten them together.

Search Class—
144—WOODWORKING, subclasses 288, Work-holding stands, and 295, Clamps, End and partition, for devices to facilitate the assembling of boxes for hand-nailing.

8.2. MACHINES, BOX, BLANK-ASSEMBLING, WIRE-BOUND. Assembling and fastening wire-bound-box blanks.

8.3. MACHINES, BOX, BLANK-ASSEMBLING, WIRE-BOUND, TABLES. Tables for machines which assemble and fasten wire-bound-box blanks.

39.1. MACHINES, SHOE, HEEL-NAILING, NAIL-FEEDING, SINGLE SOURCE, GANG-DELIVERY. Feeding mechanisms for heel-nailing machines which feed a gang of nails from a single source at each operation of the machine.

The patents contained in subclasses 8.1, 8.2, and 8.3 above have been taken for the most part from class 1, Nailing and Stapling, subclasses 2, Machines, Staple forming and setting; 14, Machines, Box, Assembling and nailing, and 15, Machines, Box, Nail-Driving, Tables, and those contained in subclass 39.1 have been taken for the most part from class 1, Nailing and Stapling, subclass 39, Machines; Shoe, Heel-nailing, Nail-feeding.

In class 10, Bolt, Nail, Nut, Rivet, and Screw Making, (Division XIII,) subclass 44, Nail-making, Wire nails, Making and distributing, add to the definition, at the end of the existing search note, the following:

and 39.1, Machines, Shoe, Heel-nailing, Nail-feeding, Single source, gang-delivery.

THOMAS E. ROBERTSON,
Commissioner.

Patent Office Publications.

The stock of the following publications is held for sale by the Patent Office, and orders for same should be addressed to the Commissioner of Patents:

Weekly Index—Annual subscription	$1.00
Commissioner's Decisions:	
Weekly edition—Annual subscription	2.00
Single numbers	.05
Trade-Mark Supplements:	
Weekly edition—Annual subscription	2.00
Single numbers	.05
Manual of Classification of the German Patent Office, (translated,) paper cover	1.00
Index to German Classification	1.00
Definitions of Revised Classes and Subclasses, edition of 1912, (Bulletins 1 to 27, inclusive)	.50
Bulletins, excepting Nos. 28 and 29, (now out of print,) published since 1912, each	.10

Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly held for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should not be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.

Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.

Certification by the Secretary of the Interior.

By authority of an act of Congress approved August 24, 1912, (183 O. G., 597,) providing uniform charges for furnishing copies of records of the Department of the Interior and its several Bureaus, a fee of twenty-five cents will be charged by the Secretary of the Interior for every certificate of authentication of official character of the officials of the Patent Office. The fee thus provided should be paid to the Secretary of the Interior, and not to the Patent Office. Attorneys and inventors desiring such certificates are requested to remit the necessary fee to the Secretary of the Interior at the time of filing in the Patent Office an order for the copies desired.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business June 4, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Jan. 26	Jan. 8	669
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 6	Nov. 11	1,503
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 13	Oct. 8	726
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	July 19	Mar. 7	1,452
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 3	Nov. 6	687
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 20	Mch. 1	252
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 5	Feb. 18	1,417
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 2	Apr. 28	574
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 20	727
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 10	Feb. 17	1,064
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Feb. 25	Mar. 21	368
222	12. Machine Elements	Oct. 30	Mar. 9	988
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Aug. 4	Feb. 24	1,509
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 9	Apr. 20	866
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 1	Oct. 8	1,571
111	16. Radiant Energy; Telegraphy; Telephony	Aug. 7	Nov. 5	1,430
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Feb. 24	780
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Sept. 2	Dec. 6	1,472
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 20	Jan. 3	865
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 2	Feb. 4	1,096
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 20	Mar. 11	483
349	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Mar. 1	Apr. 14	390
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 16	Mar. 31	771
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Nov. 22	Mar. 12	876
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 15	Apr. 7	251
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 13	Jan. 4	761
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Jan. 19	Mar. 11	1,030
225	28. Internal-Combustion Engines	Nov. 15	Jan. 3	1,169
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Nov. 11	Mar. 21	669
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 19	Apr. 12	959
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 24	Oct. 11	1,084
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 1	Mar. 1	1,069
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 26	Feb. 12	748
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Apr. 19	May 4	299
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 15	Apr. 23	483
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 17	Jan. 7	1,463
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 11	Dec. 11	1,759
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 8	Jan. 24	982
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	July 13	Sept. 17	1,634
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Nov. 11	Jan. 21	1,746
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Oct. 29	Feb. 9	816
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Oct. 1	Oct. 26	1,946
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Aug. 14	Sept. 20	1,290
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Sept. 7	Mar. 9	476
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 27	Jan. 26	1,025
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 8	Feb. 4	762
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Oct. 6	Dec. 21	1,041

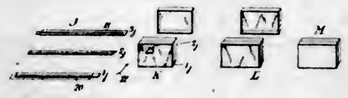
Oldest new case, July 1; oldest amended, Sept. 17.
Total number of applications awaiting action..... 47,488

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 20	Mar. 29	4,924
	Designs	Oct. 11	Dec. 10	2,314
	Labels and Prints	Mar. 11	May 23	517

PATENTS

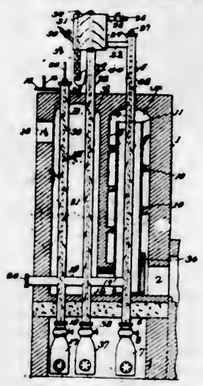
GRANTED JUNE 14, 1921.

1,381,097. METHOD OF MAKING BOXES. ALLAN A. ADAMSON, Brooklyn, N. Y., and WILLIAM F. GRUPE, North Bergen, N. J. Filed Dec. 1, 1916. Serial No. 134,306. 13 Claims. (Cl. 93—39.)



1. The process of making a paper box formed of a tray having a neck formed separately from and inserted within the body of the tray and cover telescoping on said neck, comprising separately forming substantially simultaneously the parts of said cover and the parts of said tray, including the application of adhesives as desired, definitely progressing said cover and said tray simultaneously and effecting substantially without delay the closure of the box by positioning said cover on said tray.

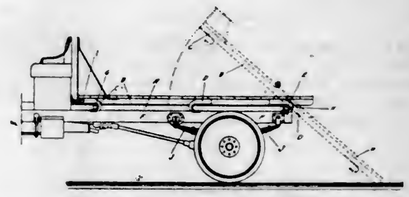
1,381,098. PROCESS OF CATALYZING OIL AND APPARATUS THEREFOR. CLIVE M. ALEXANDER, Port Arthur, Tex., and GEORGE H. TABER, Jr., Pittsburgh, Pa., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1916. Serial No. 84,210. 16 Claims. (Cl. 196—26.)



1. The process of converting high boiling hydrocarbon oils into lower boiling hydrocarbon oils which comprises applying heat to and heating a mixture of vapors of a reactive metal halid and vapors of such high boiling oil.

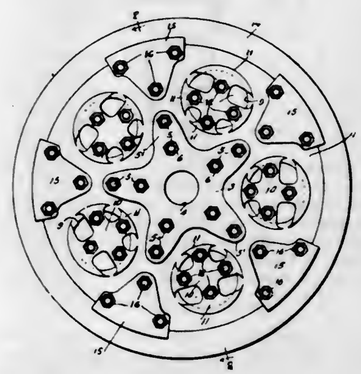
1,381,099. DUMPING-BODY. CLARENCE H. ALKER, New Orleans, La. Filed Mar. 29, 1920. Serial No. 369,819. 1 Claim. (Cl. 298—15.)

The combination with a chassis having side members normally supported at their front ends on the front axle, of a rear truck mounted beneath the said side members near their rear ends, springs supporting said side members and adapted to normally tilt said side members downward and forward, but adapted to yield and reverse the angle of tilt of said side members when subjected to the weight of the load on the wagon when the wagon is loaded, a wagon body slidably mounted on said side members and provided with a pivot to the rear of the center of gravity of said wagon body when empty with means for limiting the forward travel of the wagon body



as it returns to the initial position, and means for normally holding the wagon body when located in the forward position, substantially as described.

1,381,100. WHEEL. MANFRED H. AMBROSE, Springfield, Ohio. Filed Oct. 15, 1920. Serial No. 417,185. 5 Claims. (Cl. 152—29.)

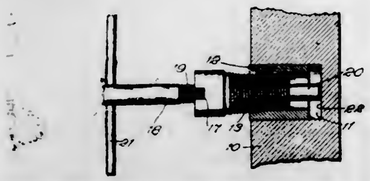


4. In an automobile cushion wheel comprising a disk of resilient material, an aperture through the center thereof, a hub plate on each side with an aperture corresponding to the aperture in the disk and having radial strengthening fingers, other apertures equidistantly located between the radial strengthening fingers of the hub plates and the periphery of the disk, coöperating reinforcing plates fastened over said last mentioned apertures and a tread portion fastened to the disk by tire clamping members.

1,381,101. BUSHING-REMOVER. FRANS O. ALBERTSON, Sioux City, Iowa, assignor to Albertson & Company, Sioux City, Iowa, a Corporation of Iowa. Original application filed June 20, 1918, Serial No. 240,977. Divided and this application filed Sept. 30, 1918. Serial No. 256,294. 2 Claims. (Cl. 29—88.2.)

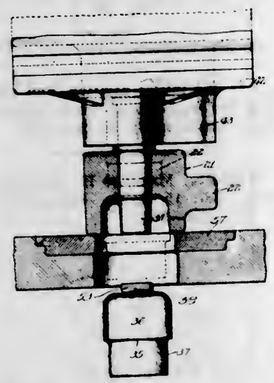
1. A bushing remover comprising a threaded tap member having a screwthreaded bore and an open-ended slot at one end intersected by said bore, and a co-acting member having screwthreads for co-acting with the threaded

bore and provided at one end with an impact surface, and a cross bar secured to the other end of said co-acting



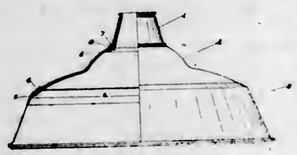
member and adapted to engage said slot without removal from said member.

1,381,102. PROCESS OF FORGING AND DIES THEREFOR. FRANK B. BELL, Pittsburgh, Pa., assignor to Edgewater Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 18, 1918. Serial No. 254,575. 19 Claims. (Cl. 78—81.)



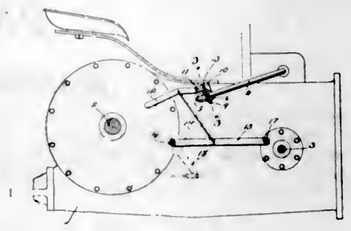
1. A process of die forging metal, comprising bringing the metal to substantially the form desired in a die by pressure exerted over the entire face of the blank or ingot, and bringing the thus nearly completed forging to accurate final shape through concentrating substantially the entire force of forging upon a penetrating member smaller than a face of said forging and movable within said die.

1,381,103. REFLECTOR. WILLIAM THOMAS BLACKWELL, Verona, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 27, 1919. Serial No. 285,463. 4 Claims. (Cl. 240—104.)



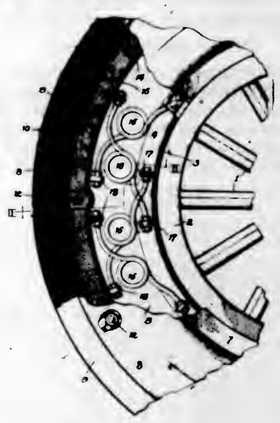
1. A composite reflector comprising a porcelain enameled steel portion, an opal glass portion adjacent thereto, and a supporting means for the reflector, the shape and quality of the glass constituting the glass portion being such that the distribution and intensity of the light in the lower hemisphere is substantially equal to the distribution and intensity of the light obtained from an entirely opaque reflector having a similar configuration, while the light cast in the upper hemisphere is an appreciable percentage of the total lighting efficiency of the reflector.

1,381,104. TRACTOR-CLUTCH CONTROL. PAUL BLUMBERG and OTTO MEILI, New Holstein, Wis. Filed Oct. 11, 1920. Serial No. 416,231. 3 Claims. (Cl. 74—39.)



1. The combination with a control lever, of means for holding the control lever in either one of two positions, comprising a member pivoted to the lever, said member being disposed on one side of the center line of its fulcrum when the lever is in one position and on the opposite side when the latter is in its other position.

1,381,105. TIRE. GEORGE E. BULLOCK, Detroit, Mich. Filed Nov. 25, 1918. Serial No. 264,122. 9 Claims. (Cl. 152—37.)

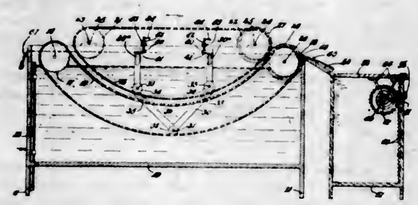


1. The combination with a wheel having a rigid rim formation, a resilient tire therefor, and a tire-supporting formation adapted to maintain the tire in spaced relation to the rim formation, of means for yieldingly connecting the rim and tire-supporting formations, said means including a plurality of independent coil springs each having its axis transverse to the direction of traction, the ends of each coil being elongated to project beyond the coil in directions approximately transverse to the coil axis, one of such ends extending in a direction opposite that of the other end, said ends being secured respectively to the several formations.

1,381,106. HYDRATE OF LIME. HARRY WILLIAMS CHARLTON, Jones Point, N. Y., assignor to American Potash Corporation, a Corporation of Virginia. Filed June 6, 1917. Serial No. 173,104. 12 Claims. (Cl. 222—4.)

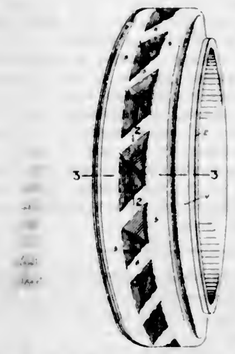
12. The method of making a new hydrate of lime containing less water of hydration than the normal hydrate, which comprises digesting slaked lime with an excess of water at a pressure of about two hundred and twenty-five to two hundred and seventy pounds per square inch and at a corresponding temperature.

1,381,107. DISH-WASHING MACHINE. KAZIMIR CWIRKO, New York, N. Y. Filed Dec. 30, 1919. Serial No. 348,327. 3 Claims. (Cl. 141—9.)



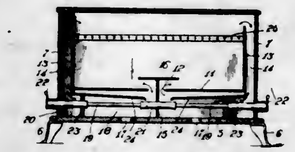
1. A dishwashing machine comprising a tank, a traveling conveyer extending through said tank, and means for causing the dishes passing from the said conveyer to be delivered, said means including a chute, and a baffle bar pivoted to said chute midway between opposite sides of the machine.

1,381,108. TRUCK-TIRE. LAURENCE R. DAVIS, Providence, R. I., assignor to Revere Rubber Company, a Corporation of Rhode Island. Substitute for application Serial No. 381,633, filed May 15, 1920. This application filed Mar. 3, 1921. Serial No. 449,392. 3 Claims. (Cl. 152—1.)



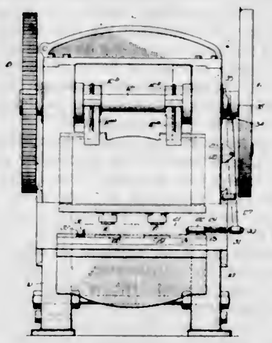
3. A solid tire for heavy load carrying vehicles broader at the base of its cushioning mass than at the tread and much wider than deep having a substantially flat tread surface provided centrally only with a row of cavities of a depth and volume permitting substantially uniform vulcanization, and having transversely inclined cross bars between the cavities affording a smooth running traction grip on the roadway as well as radiating surfaces for heat generated in service, said cross bars also augmenting the load carrying capacities of the portions of the tire flanking the row of cavities.

1,381,109. ELECTRICALLY-HEATED INCUBATOR. ACHILLES DE KHOTINSKY, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1918. Serial No. 236,084. 3 Claims. (Cl. 126—275.)



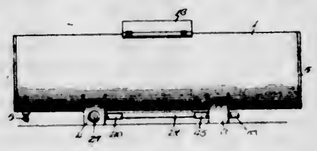
1. In a heating apparatus, the combination of a heating chamber having a floor, an air heating compartment beneath said floor, heating means in said compartment, flues at the ends of said chamber and compartment and communicating therewith to permit circulation of air therebetween, a flue at the top of said chamber communicating therewith, a flue at the back of the chamber and compartment communicating with said top flue, a pan secured to the floor on the under side thereof and providing an air space beneath the floor communicating with said back flue, and a flue at the front of said compartment communicating therewith and with an air space between the pan and the floor, there being an opening in the floor forming a communication between the compartment and the air space below the floor.

1,381,110. SLOTTING-MACHINE FOR SPLICE-BARS. JULIUS A. DYBLIE, Joliet, Ill. Filed Oct. 13, 1919. Serial No. 330,425. 8 Claims. (Cl. 164—51.)



1. In combination with a punch press, of a pivotally mounted member thereon, means at the upper end of said press and connected with the operating mechanism of the punch press whereby the member is actuated, and means at the lower end of said lever for pushing a work piece into position under the punching dies.

1,381,111. PULSATOR FOR MILKING-MACHINES. AARON D. ELLINGTON, Springfield, Ill. Filed Apr. 29, 1920. Serial No. 377,661. 7 Claims. (Cl. 31—100.)



1. A pulsator for a milking machine comprising a cylindrical casing, a piston valve mounted for reciprocation therein, means for conducting compressed air alternately to opposite ends of the piston valve, thereby causing the reciprocation of the latter, means for permitting the exhaust of compressed air from the cylindrical casing at the end of each stroke of the piston valve, means for conducting compressed air to a coöperating portion of a milking machine when the piston valve is being moved in one direction, thereby transmitting a compressive action to the coöperating portion of the milking machine, means for establishing communication between a vacuum pump and a coöperating portion of the milking machine when the piston valve is being moved in the direction opposite to that first named, thereby transmitting a sucking action to the last named coöperating portion of the milking machine, and means for regulating the rate of travel of the piston valve in its reciprocation, thereby regulating the duration of the compressive action and of the sucking action.

3. A pulsator for a milking machine comprising a cylindrical casing, a piston valve mounted for reciprocation therein, a pipe adapted for connection with an air compressor, a pair of branch pipes arranged to lead from said first named pipe into the cylindrical casing, means for permitting compressed air to pass alternately from each of said branch pipes into the casing adjacent each end thereof, thereby causing the piston valve to be reciprocated, means for permitting the exhaust of compressed air from the cylindrical casing at the end of each stroke of the piston valve, means for conducting compressed air to a coöperating portion of a milking machine when the piston valve is being moved in one direction, thereby transmitting a compressive action to the coöperating portion of the milking machine, means for establishing communication between a vacuum pump and a coöperating portion of the milking machine when the piston valve is being moved in the direction opposite to that first named, thereby transmitting a sucking action to the last named coöperating portion of the milking machine, and means for regulating the rate of travel of the piston valve in its movement in one direction and for regulating independently the rate of travel of the piston valve in its movement in the opposite direction, whereby the duration of the compressive action and the duration of the sucking action can be regulated at will.

5. A pulsator for a milking machine comprising a cylindrical casing, a pipe adapted for connection with an air compressor, a branch pipe arranged to lead from said first named pipe to said casing and to communicate with the latter adjacent one end, a second branch pipe arranged to lead from said first named pipe to said casing and to communicate with the latter adjacent its other end, a piston valve mounted for reciprocation in said casing, said piston valve being formed with a central longitudinal passage extending inwardly from each end thereof, the inner ends of said pistons being spaced apart, each central passage being connected adjacent its outer end by a radially extending passage with the outer end of a longitudinally extending groove provided in the surface of the piston valve, said longitudinal grooves being positioned at different points on the surfaces of the piston valve, means for guiding the piston valve whereby one of said grooves is maintained in connection with the open end of one of said branch air pipes, thus causing a movement of the piston valve in one direction, means for rotatably shifting the piston valve at the end of its movement in one direction, thereby moving the other of said longitudinal grooves in communication with the opening of the other of said branch pipes, thereby causing a movement of the piston valve in the direction opposite to that first named, means for permitting the exhaust of compressed air of the cylindrical casing at the end of each stroke of the piston valve, means for conducting compressed air to a coöperating portion of the milking machine when the piston valve is being moved in one direction, thereby transmitting a compressive action to the coöperating portion of the milking machine, means for establishing communication between the vacuum pump and the coöperating portion of the milking machine when the piston valve is being moved in the direction opposite to that first named, thereby transmitting a sucking action to the last named coöperating portion of the milking machine, and a valve disposed in each of said branch pipes for regulating the flow of compressed air therethrough, thereby permitting the regulation of the duration of the compressive action of the sucking action independently of each other.

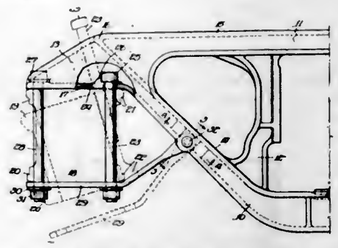
6. A pulsator for a milking machine, comprising a cylindrical casing, a support therefor, a piston valve mounted for reciprocation therein, means for conducting compressed air alternately to opposite ends of the piston valve, thereby causing a reciprocation of the latter, means for permitting the exhaust of compressed air from the cylindrical casing at the end of each stroke of the piston valve, an outlet pipe arranged to communicate with said casing adjacent one end thereof, said outlet pipe being adapted for connection with a coöperating portion of the milking machine, whereby a compressive action is transmitted to the latter when the piston valve is being moved in one direction, means for establishing communication between a vacuum pump and a coöperating portion of the milking machine when the piston valve is being moved in the direction opposite to that first named, thereby transmitting a sucking action to the last named coöperating portion of the milking machine, and means for regulating the rate of travel of the piston valve in its movement in one direction and for regulating independently the rate of travel of the piston valve in its movement in the opposite direction, whereby the duration of the compressive action and the duration of the sucking action can be regulated at will.

7. A pulsator for a milking machine comprising a cylindrical casing, a piston valve mounted for reciprocation therein, said piston valve being provided with a longitudinal groove in its surface, the outer end of said groove being spaced from the end of the piston, means for conducting compressed air alternately to opposite ends of the piston valve, thereby causing a reciprocation of the latter, means for permitting the exhaust of compressed air from the cylindrical casing at the end of each stroke of the piston valve, means for conducting compressed air to a coöperating portion of the milking machine when the piston valve is being moved in one direction, thereby transmitting the compressive action to the coöperating portion of the milking machine, an inlet pipe arranged to communicate with the longitudinal groove in said piston when the latter is being moved in the direction opposite to that first named, a second pipe arranged to also communicate with said groove when the piston is being moved in the last named direction, said last named pipe being adapted for connection with a coöperating portion of the milking machine, whereby a sucking action is transmitted to the last named coöperating portion of the milking machine when the piston valve is being moved in the last mentioned direction, means for regulating the rate of travel of the piston valve in its movement in one direction, and other means for regulating the rate of travel of the piston valve in its movement in the opposite direction, whereby the duration of the compressive action and the duration of the sucking action can be regulated at will independently of each other.

1,381,112. RUST-PROOFING COMPOSITION. WALTER R. EMIG, Toledo, Ohio, assignor of one-half to Harry S. Bergen, Toledo, Ohio. Filed Aug. 5, 1918. Serial No. 248,456. 2 Claims. (Cl. 134—51.)

1. A rust proofing compound comprising a solution of gilsonite and kauri nubs mixed with asbestine, lamp black, lithopone, black oxid of manganese and a mixture of phosphoric acid and iron filings.

1,381,113. SIDE-FRAME ARRANGEMENT. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 8, 1920. Serial No. 372,222. 10 Claims. (Cl. 105—221.)



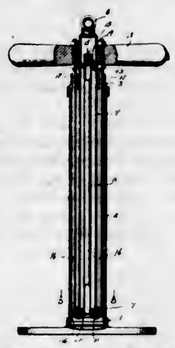
4. In combination, a truck side frame having tension and compression members joined to each other, a journal box receiving flange with an elongated slot therein below the connection between said tension and compression members whereby the securing bolt may be passed through said opening at an inclined angle to avoid the point of connection between said tension and compression members, and a journal box receiving said bolt in an inclined position, after which the bolt and box may be moved into normal position.

1,381,114. MEMORANDUM ATTACHMENT FOR ALBUMS. ULYSSES VICTORIA GARRED, Louisa, Ky. Filed Oct. 7, 1919. Serial No. 329,133. 3 Claims. (Cl. 40—18.)



3. In a device of the type described, a photograph and its mount, a memorandum-tablet inserted therebetween and having a transversely creased member in a continuous piece therewith, whereby as said tablet is moved inwardly, said transversely creased member will fold upon itself intermediate said mount and said memorandum-tablet and wedge said tablet in secured position.

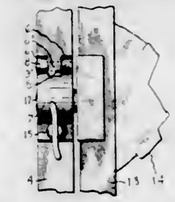
1,381,115. PUMP. ALOIS GASSENHUBER, Jr., South Milwaukee, Wis. Filed Oct. 19, 1920. Serial No. 417,895. 2 Claims. (Cl. 230—27.)



1. A compound pump comprising an air intake cylinder having upper and lower heads, a compression open ended cylinder in telescopic union with the intake cylinder, the same having one end extended through the cylinder head, means for locking the compression cylinder in its distended working position with relation to the intake cylinder, a hollow reciprocative piston rod mounted in the compression cylinder, a valve head at its lower end engageable with the intake cylinder walls, a check valve control head carried at its upper end engageable with the compression cylinder walls, longitudinally disposed tie rods carried by the lower piston rod head, the same extending through the upper head of the intake cylinder and actuating means connecting the rods.

1,381,116. ADJUSTABLE WINDSHIELD-SUPPORT. EDWARD W. GOODWIN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1919. Serial No. 304,971. 3 Claims. (Cl. 296—92.)

3. In a wind shield supporting device for motor vehicles, an upright supporting stanchion having a seat formed therein and extending transversely from one side to the other thereof, oppositely located recesses formed in the sides of said stanchion at the rear side thereof and which recesses are arranged above said seat, and a lug located between said recesses; a latch member having lugs at one end spaced apart from one another and adapted to lie within the recesses aforesaid, and a seat so disposed as to register with the seat in said stanchion; a screw extending through said lugs and whereby said latch member is pivotally secured to said stanchion; a clamping screw in



engagement with said latch member adjacent the free end thereof and whereby said free end may be drawn toward said stanchion; a frame member; and a trunnion carried by said frame member and having an enlarged circular head, and which head is adapted to lie within the seats aforesaid in said stanchion and latch member.

1,381,117. LICENSE-INDICATOR FOR MOTOR-VEHICLES. MATTHEW J. GORMAN, Ottawa, Ontario, Canada. Filed Nov. 3, 1920. Serial No. 421,515. 3 Claims. (Cl. 40—132.)

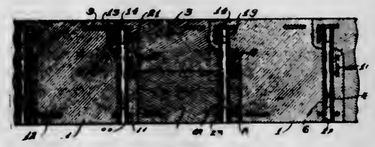


1. As a new article of manufacture, the herein described vehicle license indicator, comprising a casing formed with top, base and side walls, said walls having their edge portions bent over to form channels, a number bearing plate disposed in one of said channels, a closure plate detachably connected to the rear part of the casing, angle members secured to the bottom of the casing, angle members connected to said casing for holding the back plate in position thereon and means for connecting said angle members to said casing.

1,381,118. METHOD OF MAKING INSULATING COMPOSITION. OSCAR GERLACH, Danville, Ill. Filed June 22, 1917. Serial No. 176,277. 4 Claims. (Cl. 106—18.)

4. The method of making an insulating composition including mixing infusorial earth with water to form a paste, incorporating a binder therewith, then adding separately solutions of a carbonate and a weakly dissociated acid to generate gas through the mass.

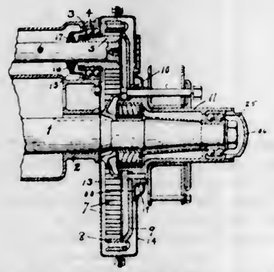
1,381,119. REINFORCED BLOCKS AND INTERLOCKING MEANS THEREFOR. CORNELIUS G. HASTINGS, Glendale, Calif. Filed June 24, 1918. Serial No. 241,515. 5 Claims. (Cl. 61—45.)



1. In a sectional structure the combination of a pair of adjoining blocks having overlapped end portions, an-

other block arranged in staggered relation at the side of said pair of blocks and having a portion thereof overlapping the overlapped portions of the pair of blocks, and a locking member connecting the overlapped portions of the pair of blocks and said other block.

1,381,120. OIL-RETAINER. ROGER W. HASTINGS and CLARK W. PARKER, New York, N. Y.; said Hastings assignor to said Parker. Filed Sept. 22, 1920. Serial No. 411,893. 6 Claims. (Cl. 74—7.)



2. In combination, a wheel hub having a circumferential rib, an annular oil receptacle surrounding the hub, a ring secured to the inner side of one wall of the receptacle concentric with the hub, and a metal finger mounted on said ring and engaging said rib.

1,381,121. BELT-BUCKLE. ERNEST N. HUMPHREY, New Britain, Conn. Filed Nov. 22, 1920. Serial No. 425,753. 2 Claims. (Cl. 24—194.)



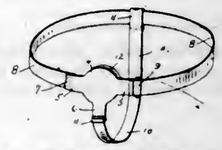
1. A belt buckle, comprising a main body portion including two downturned side bars, each of said bars having a longitudinal slot toward its rear end, two transverse cross bars connecting the downturned side bars at their front and rear ends, a gripping slide having a slot near its forward end, two oppositely positioned substantially flat ears near the rear end and at opposite edges of said gripping slide, the length of said ears being less than the length of said slots, said ears standing in said slots and supported by the upper and lower edges thereof to hold said gripping slide in position at the underside of the main body, said slide having a gripping portion arranged to co-act with the transverse bar at the forward edge of the main body to hold a strap therebetween.

1,381,122. BELT-BUCKLE. ERNEST N. HUMPHREY, New Britain, Conn. Filed Mar. 28, 1921. Serial No. 456,079. 1 Claim. (Cl. 24—191.)



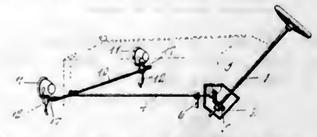
A belt buckle comprising an elongated front plate, two rearwardly directed flanges extending longitudinally of the same at the upper and lower edge thereof and forming a belt passage between them, a belt gripping plate pivoted at one end to said flanges near one end of the front plate and at the back of the belt passage, a lever having a cam shoulder coacting with the free end of the gripping plate, said lever being pivoted to said flanges near the opposite end of the front plate, and means for securing a belt to said lever whereby the strain of a belt thereon will hold the lever in the belt gripping position.

1,381,123. TRUSS. EDWARD G. HUTTERER, Sanborn, Iowa. Filed Jan. 24, 1920. Serial No. 353,678. 1 Claim. (Cl. 128—118.)



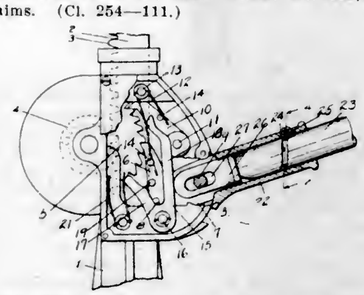
A trusspad including an elastic sheet, an elastic ring, circular in cross-section and adjacent the sheet, a thin circular web securing the sheet to the adjacent side of the ring whereby the ring may be rolled inwardly, a circular soft pad encircled by the ring and including inner and outer walls having their edges secured together to provide a pad which is thin at its periphery, the pad being so constructed and related to the ring that the intermediate portion of the pad extends approximately to the plane of the outer side of the ring, and the peripheral edge of the pad is positioned substantially midway between the sides of the ring, to permit inward rolling of the ring.

1,381,124. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. MANEY JACKSON, Emmett, Idaho. Filed Nov. 25, 1919. Serial No. 340,527. 1 Claim. (Cl. 240—62.)



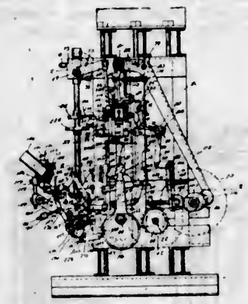
In a dirigible headlight, a casing, a reflector pivotally mounted with relation thereto, an operating arm connected with one of the pivots of said reflector, an operating bar connected to said arm, a steering rod, a shaft operatively connected therewith, and a loose connection between said shaft and rod, said loose connection embodying slotted lugs rising from said shaft and lateral members on the bar loosely engaged in the slots of the lugs.

1,381,125. LIFTING-JACK. ALFRED H. JOHNSON, Niles, Mich., assignor to National-Standard Company, Niles, Mich. Filed Dec. 11, 1920. Serial No. 429,993. 5 Claims. (Cl. 254—111.)



1. In a lifting jack comprising a frame and lifting bar, the combination of a pair of alternately acting pawls provided with engaging springs, a pivotally mounted reversing member adapted to coact with said pawls, a spring arranged to actuate said reversing member, said spring being of greater strength than the engaging spring of said pawls, an actuating lever, one of said pawls being mounted on said lever, said lever comprising a hollow shank portion pivoted on said frame and a handle portion rotatively mounted in said shank, said handle being provided with a spirally disposed groove and said shank having a pin engaging said groove, whereby when the handle is rotated it is moved longitudinally within the shank, and a control member for said reversing member disposed in said shank for sliding adjustment therein to coact with said handle.

1,381,126. COUNTER-FORMING MACHINE. ALBERT F. JONES, Salem, Mass. Filed Feb. 27, 1918. Serial No. 219,353. 19 Claims. (Cl. 12—66.)



1. In a counter forming machine, male and female dies to shape the counter, and a wiper slidably arranged with respect to said female dies to form a flange on the counter, said female dies and wiper being movable as a unit to compress the flange between the wiper and male die.

14. In a counter forming machine a male die and a female die, the male die being movable into and out of the female die, means for delivering a blank in position to be acted on by the dies, means to move the male die into the female die to form the body of a counter between said dies, said means having provisions for rigidly supporting the male die in its forming position, and female die-moving means to subsequently move the female die toward the male die to compress the formed counter body.

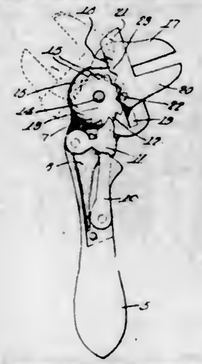
1,381,127. MAGAZINE FOR GUNS. CHARLES F. LEFEVER, Plymouth, Mich., assignor to Daisy Manufacturing Company, Plymouth, Mich., a Corporation of Michigan. Filed May 23, 1919. Serial No. 299,193. 2 Claims. (Cl. 124—11.)



1. In a gun, the combination with a barrel, of a frame to which said barrel is attached, and a U-shaped strap secured upon one of said members, of a magazine communicating with the interior of said barrel and arranged outside said frame adjacent thereto, the forward end of said magazine slidably engaging between said U-shaped strap and said member to which said strap is secured.

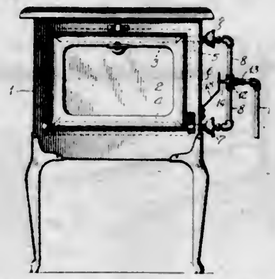
1,381,128. WRENCH. THURSTON MATHENY, The Plains, Ohio, assignor of one-half to O. F. Sarson and C. L. Orr. Filed Mar. 2, 1920. Serial No. 362,850. 1 Claim. (Cl. 81—127.)

A wrench including a body having a slotted end, a pin mounted therein, a member carrying a fixed jaw mounted upon said pin for oscillatory movement, said member being provided with a guideway and a slot, an L-shaped sliding jaw having its guiding terminal mounted in the guide of the fixed jaw to limit the movement of the sliding jaw, a disk mounted for limited rotation and provided with gear teeth on a portion of its periphery for engaging the sliding jaw whereby when the oscillatory member is moved the sliding jaw will be moved to and from the fixed jaw, ratchet teeth formed upon the remaining periphery of said disk, a pivoted locking detent mounted in the body and adapted to engage one of the ratchet teeth to lock the teeth against movement and in adjusted position, and a spring actuated thumb-piece also mounted



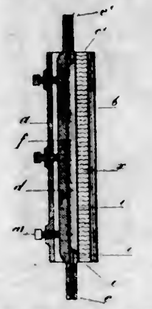
in the body for controlling the movement of the locking detent.

1,381,129. VALVE FOR OVENS. HENRY C. MAUL, Detroit, Mich., assignor to The Michigan Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 17, 1917. Serial No. 207,542. 1 Claim. (Cl. 251—109.)



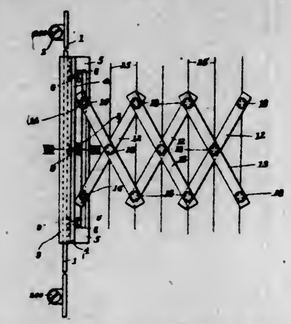
Means for preventing accidental actuation of a valve having more than one adjustment relative to a stove, comprising a resilient member, adapted to have one end thereof fixed to the stove adjacent said valve and its opposite end free to be frictionally engaged, and a valve member in alinement with and opposed to the usual handle of the valve and movable therewith, said resilient member having its free end disposed at a tangent to the arc in which the valve member moves so that said valve member may engage said resilient member from two directions and retain said valve handle in adjusted position.

1,381,130. CASE FOR STEAM-BOILER LEVELS. LEONARDO MOSMIERI, Florence, Italy. Filed Feb. 14, 1918. Serial No. 217,281. 3 Claims. (Cl. 73—54.)



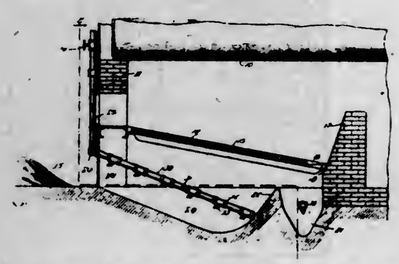
1. A water gage comprising a conduit, a glass plate, and a casing provided with means for supporting said glass plate only along its longitudinal edges.

1,381,131. MARKING-TOOL. BENJAMIN MOSS, New York, N. Y. Filed July 26, 1920. Serial No. 398,876. 13 Claims. (Cl. 33—192.)



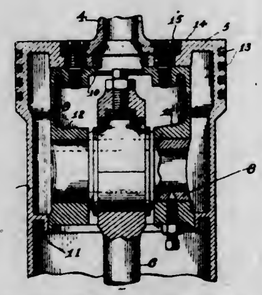
1. In a marking tool, the combination with a guide rail, of a carriage mounted to slide on said rail, lazy-tongs carried by said carriage and extensible in a direction transverse to the guide rail, and marking devices on said lazy-tongs.

1,381,132. ASH-REMOVER. SAMUEL B. MOTT, Noblesville, Ind. Filed Oct. 22, 1919. Serial No. 332,537. 5 Claims. (Cl. 110—165.)



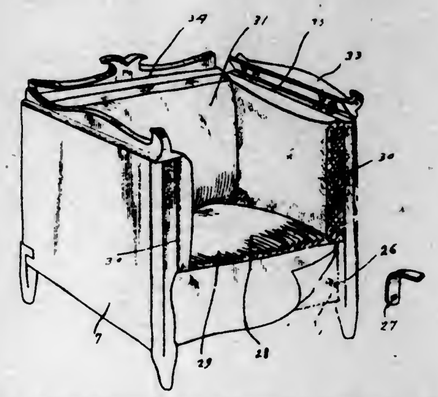
3. A furnace having a pit, a pipe parallel to the floor of said pit and having nipples inclined toward one end of said pit and toward and at an oblique angle to the bottom thereof, and means to admit steam under pressure to said pipe and nipples to blow out the material in said pit.

1,381,133. ENGINE AIR-COMPRESSOR. JAKOB MÜLLER, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 18, 1917. Serial No. 207,767. 7 Claims. (Cl. 74—108.)



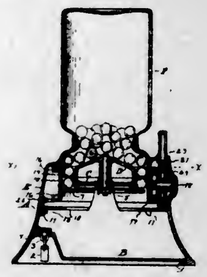
1. In an air compressor, the combination with a stepped trunk piston and the operating connecting rod thereof, of a connection member located centrally of the piston structure at the junction of the large and small diameters thereof and forming the support for the piston pin, and means accessible from the cylinder head side of said trunk piston for detachably securing said connection member thereto.

1,381,134. COMBINATION ARTICLE OF FURNITURE. IWAN OSTAFIJCHUK, Fort William, Ontario, Canada. Filed Aug. 9, 1920. Serial No. 402,500. 3 Claims. (Cl. 155—46.)



1. A combination article of furniture comprising a side frame, side members, a sectional back hinged to the side members, the bottoms of said side members being telescopic, bars slidably mounted in the transverse member of the frame and connected to said telescopic members, and means for simultaneously moving the side members and the transverse member to form a bed frame.

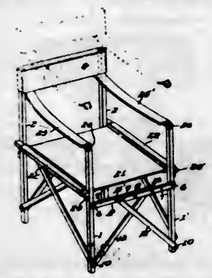
1,381,135. VENDING-MACHINE. VICTOR E. RANDALL, Battle Creek, Mich., assignor to Silas A. Miller, Battle Creek, Mich. Filed June 5, 1919. Serial No. 302,051. 5 Claims. (Cl. 211—8.)



1. In a vending machine, the combination of a base having an inturned rim partially about its lower edge, a hasp eyelet above said lower edge on the opposite side of said base, a removable bottom conforming in outline to the inside of said base adapted to rest on said inturned rim, an opposite side of said bottom curving upwardly and having an aperture engaging over said eyelet, and a padlock engaging said eyelet within the open space between the base and the upwardly-curving portion of said bottom.

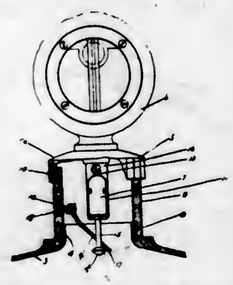
1,381,136. FOLDING CHAIR. ALBERTO LEITE RIBEIRO, Camden, N. J. Filed Jan. 3, 1921. Serial No. 434,413. 8 Claims. (Cl. 155—140.)

1. A device of the class described comprising when in unfolded condition a plurality of vertically extending uprights located at the corners of the device, cross members extending horizontally in opposite directions between each pair of adjacent uprights, each of said members being pivoted adjacent its outer end to one of said uprights and having its inner end beveled diagonally downward, a pivot connecting said members, and a pair of struts, each member of the pair being pivoted near its lower end to



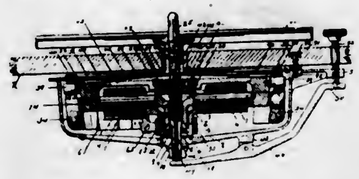
one of said uprights and near its upper end to one of said cross members and each strut being in coöperative engagement with the beveled end of another of said members to support said member in horizontal position.

1,381,137. CONTAINER-CLOSURE. EDWIN G. RUST, Sioux City, Iowa. Filed Sept. 14, 1920. Serial No. 410,304. 3 Claims. (Cl. 220—39.)



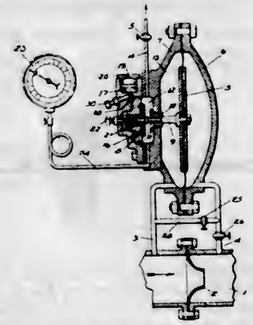
3. An attachment for a container having a threaded neck, and a closure adapted to be screwed on to the neck and having a central depending part, comprising a tube adapted to be screwed onto the neck, and threaded to receive the closure, a clamp to be secured to said part and having a central depending bolt, a slotted arm pivoted to the tube to oscillate vertically, and through which the bolt passes and a stop on the bolt below the arm.

1,381,138. ELECTRIC MOTOR FOR TALKING-MACHINES. JAMES T. SIBLEY, Newark, N. J. Filed June 19, 1917. Serial No. 175,565. 13 Claims. (Cl. 171—222.)



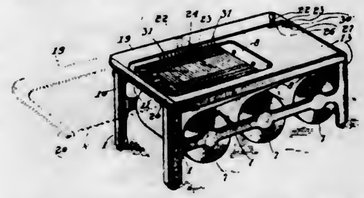
9. In an electric motor, the combination of a rotor and a stator, said stator comprising two pairs of field magnets, each pair being diametrically opposite, and both pairs radially arranged from a common center, an annular sectional circuit interrupter having its alternate sections connnected respectively to said pairs of magnets, a brush carried by said rotor in contact with said interrupter, and two separate sources of electrical energy, each source connnected in circuit with a pair of said magnets the corresponding section of said interrupter and said brush.

1,381,139. ELASTIC-FLUID-PRESSURE MULTIPLIER. CHARLES H. SMOOT, South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed June 22, 1920. Serial No. 390,919. 6 Claims. (Cl. 137—78.)



4. In an elastic fluid pressure multiplier two diaphragms interconnected the first diaphragm being subjected to the difference of pressure of the flow of fluid passing through an orifice interposed in the path of its travel and the second diaphragm subjected to the pressure of a fluid controlled by a valve operated by the first diaphragm.

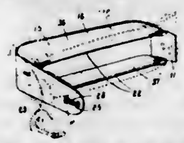
1,381,140. AUTOGRAPHIC REGISTER. WILLIAM C. SMITH, Chicago, Ill. Filed Dec. 15, 1919. Serial No. 344,897. 25 Claims. (Cl. 281—11.)



1. An autographic register employing perforated form strips comprising a reciprocating severing blade and operating means therefor, and means carried by said blade for engaging holes and feeding out forms.

18. In an autographic register employing perforated form strips, teeth in normal engagement with form holes and means for moving the same forwardly for feeding engaged forms, bearings for form rolls from which said strips are unwound, upwardly and rearwardly extending surfaces leading from said bearings, roll journals normally resting in said bearings adapted to roll up said surfaces when undue tension is brought to bear on said strips, and journal guideways leading to said bearings from the rear of the register to facilitate insertion and removal of the rolls.

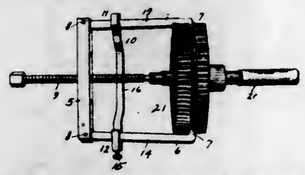
1,381,141. SLIP-COVER FOR MOTOR-VEHICLE TOPS. LYLE K. SNELL, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 2, 1917. Serial No. 151,887. 8 Claims. (Cl. 296—136.)



1. A slip cover for vehicle tops or the like comprising a band forming an end and side portions, top and bottom portions secured entirely around three side edges thereof

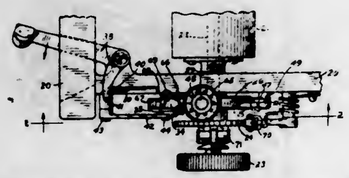
to said band and each of which top and bottom portions is formed full along its free edge, and means for gathering the fullness of said top and bottom portions toward said band at the sides adjacent the free edges thereof whereby said band portion may be regularly arranged therearound.

1,381,142. GEAR-PULLER. JOSEPH H. STALEY, Columbus, Ind. Filed July 28, 1920. Serial No. 399,505. 2 Claims. (Cl. 29—85.)



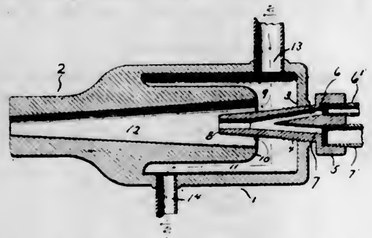
1. In a device for the purposes specified, a head, a pair of jaw-bars pivoted to the ends of the head, said jaw-bars having inturned end hooks, a screw-bolt passing through a threaded hole in the head intermediate of the jaw-bars, and a clamp-bar having end hooks in which the respective jaw-bars are received and a set-screw terminating outside of the clamp-bar and passing through one of the hooks into contact with a jaw-bar to draw the jaw-bars together against the work.

1,381,143. MICROMETER LINE-SPACING ADJUSTMENT FOR WRITING-MACHINES. PHILO B. TINGLEY, New York, N. Y. Filed Feb. 2, 1920. Serial No. 355,884. 12 Claims. (Cl. 197—114.)



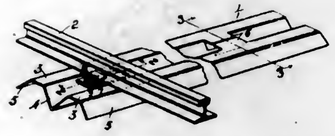
1. A micrometer line spacing adjustment for writing machines comprising a pinten, a shaft therefor, a spacing device thereon, clamping means uniting the shaft and spacing device, a spacing lever, means for setting the spacing device for a regular space or a multiple thereof and a scroll wheel thereon for altering said regular space after setting and capable of setting an irregular space in said setting device.

1,381,144. BURNER FOR GAS AND OIL. CORNELIUS P. VALLELY, Bradford, Pa. Filed June 3, 1919. Serial No. 301,469. 3 Claims. (Cl. 158—73.)



2. In a device of the character described a combined oil and gas burner, comprising a cylindrical formed outer shell having an air-chamber therein, an internally passaged boss formed integral with one end of said shell extending into said air-chamber forming an annular space intermediate of said shell, a lateral ingress port adapted to admit air to said annular space, a single discharge two feed nozzle extending through said air space with its discharge end disposed within the passaged boss, arranged to project therethrough a plurality of fluids by the discharge from said nozzle.

1,381,145. RAIL TIE AND CLAMP. ORSON R. VAN SICKLE, Toledo, Ohio. Filed Mar. 14, 1921. Serial No 452,052. 5 Claims. (Cl. 238—82.)



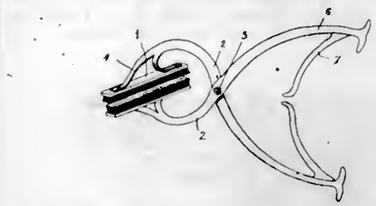
1. A railway tie having transversely spaced rail supporting portions, a depressed V-portion connecting the rail supporting portions, flanges depending from the outer edges of the rail supporting portions, and a wing projecting over the V-portion from the inner edge of one of the top portions.

1,381,146. BELT-BUCKLE. OEL E. WARDNER, New Britain, Conn., assignor to Traut & Hine Mfg. Co., New Britain, Conn., a Corporation of Connecticut. Filed Nov. 22, 1920. Serial No. 425,733. 1 Claim. (Cl. 24—191.)



In a belt buckle, the combination of a front plate having rearwardly extending flanges along two opposite edges, a belt gripping roller having pivot pins fixed at opposite ends thereof, and located eccentrically thereto, and projecting into openings in said opposite flanges, a belt attaching lever having ears at its opposite edges located between the ends of said roller and the adjacent flanges and freely pivoted on said pivot pins, the belt engaging face of the roller being roughened, a shoulder on the roller arranged to be engaged by the belt attaching lever when the latter is swung back to positively rotate said roller to its belt freeing position.

1,381,147. HAIR-BRUSH. EDWARD WELLINGTON, Port Coquitlam, British Columbia, Canada. Filed Aug. 9, 1920. Serial No. 402,480. 2 Claims. (Cl. 15—29.)

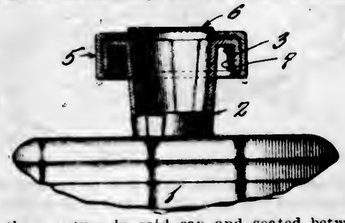


1. A hair brush comprising a pair of ogee levers pivoted intermediate their ends, the shorter arms of the levers each having two prongs lying in a single plane in the general direction of the levers, brushes connected to said prongs, and spring members carried by the longer arms of the levers and converging toward each other.

1,381,148. CONTAINER. FREDERICK WESTERBECK, St. Louis, Mo. Filed Sept. 25, 1916. Serial No. 121,999. 3 Claims. (Cl. 220—27.)

1. A container comprising a sheet metal neck having an outwardly jutting horizontal top flange and an annular

externally screw threaded lip extending downwardly from said top flange, an apertured cap comprising an annular top flange overlying the horizontal top flange of said neck and an internally screw threaded flange fitted to said externally screw threaded lip, and a soft metal sealing disk



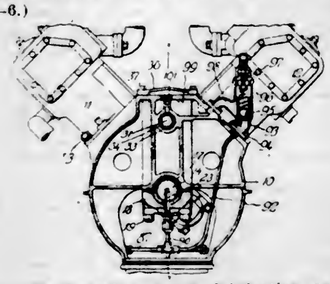
closing the aperture in said cap and seated between the horizontal top flange of said neck and the top flange of said cap, one of said top flanges having a circular groove therein and the other top flange having a circular projection for forcing a portion of said soft metal sealing disk into said groove.

1,381,149. REINFORCED TRUNK-EDGE CONSTRUCTION. GEORGE HENRY WHEARY, Racine, Wis. Filed June 23, 1919. Serial No. 306,021. 3 Claims. (Cl. 190—37.)



1. The combination with a trunk edge strip of material having a medial portion with inwardly extending spaced apart leg portions and outer terminal securing portions forming an elongated space of angular shape in cross section, of a reinforcing means therefor, consisting of a strip of material extending lengthwise into the space and having in cross section a medial resilient portion and inwardly extending spaced apart leg portions which closely engage corresponding parts of the trunk edge strip.

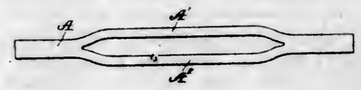
1,381,150. HYDROCARBON-MOTOR. D'ORSAY MCCALL WHITE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 26, 1915. Serial No. 63,469. 8 Claims. (Cl. 184—6.)



5. In a hydrocarbon motor lubricating system, the combination with a common supply of lubricant under pressure, of a plurality of lubricant reservoirs or ducts, means for successively regulating the quantity and pressure fed to each reservoir or duct, and means for feeding said lubricant from said reservoirs or ducts to the various parts of the motor to be lubricated.

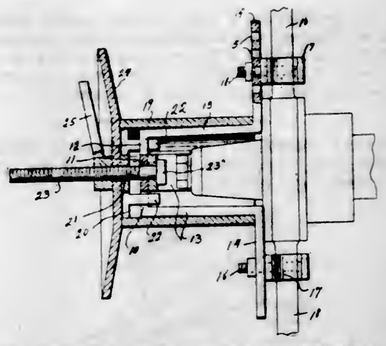
1,381,151. AUTOMOBILE-BUMPER. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 2, 1920. Serial No. 414,298. 1 Claim. (Cl. 293—55.)

An automobile bumper impact member consisting of an integral flat bar, longitudinally rifted at the middle part of its length and spaced apart at the rift to form an upper and a lower impact bar; end portions beyond the



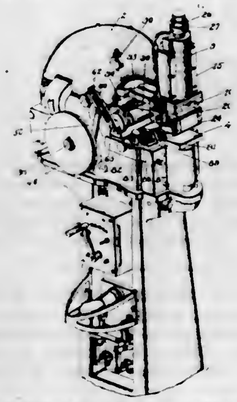
rifted and spread parts being reflexed rearwardly and extended inwardly behind the under part to form resilient end loops.

1,381,152. DETACHABLE CABLE-DRUM FOR SPOKED WHEELS. MONROE W. WILSON, Temple, Okla. Filed Aug. 7, 1920. Serial No. 401,942. 4 Claims. (Cl. 242—95.)



2. In a detachable cable drum for spoked wheels, a yoke embodying radial arms provided with resilient angularly disposed diverging portions, the ends of said diverging portions being provided with radially disposed feet each provided with a longitudinally adjustable portion adapted to engage intermediate the spokes of the wheel and interlock therewith, a cuff adapted when shifted longitudinally of said angular portions to contract the same to cause said spoke engaging portions to wedge intermediate the spokes, and means connecting said yoke and said cuff for causing said member to shift longitudinally of said yoke.

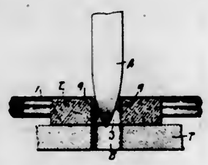
1,381,153. STAMPING-MACHINE. HENRY W. WINTER, Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 23, 1917. Serial No. 157,037. 12 Claims. (Cl. 41—7.)



1. A stamping machine, having, in combination, a movable die having strip guiding means, a supply reel and a feed roller rotatable about fixed axes located at one side

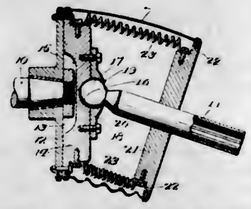
of the path of the die, whereby a strip of stamping medium may be looped about the die between the reel and feed roller.

1,381,154. MEANS FOR FASTENING SOFT MATERIAL TO SHEET METAL. EDWARD L. WOOD, Detroit, Mich. Filed May 9, 1919. Serial No. 296,015. 2 Claims. (Cl. 91—62.5.)



1. In combination, a sheet of metal and a perforated swab of relatively soft compressed material, said sheet of metal having a series of integral tongues struck up within the limits of the perforation in the swab and bent over in hook-like form into the body of the swab.

1,381,155. UNIVERSAL JOINT. JOSEPH P. WOOD, Columbus, Ga. Filed Nov. 8, 1920. Serial No. 422,652. 2 Claims. (Cl. 64—96.)



1. A universal joint comprising a socket member adapted for attachment to a shaft section, a shaft section having a ball head engaged in the socket of the socket member, a retaining member secured to the socket member and engaging with said ball head, a disk secured to the second-named shaft section, coil springs secured to and extending between the periphery of the disk and the socket member, and a flexible oil retaining sleeve secured to and extending between the disk and the socket member and inclosing the joint.

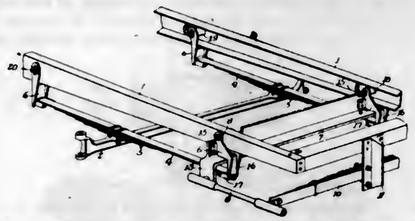
1,381,156. INKING-PAD. ALONZO WOODRUFF, Auburn, N. Y. Filed Sept. 29, 1920. Serial No. 413,554. 5 Claims. (Cl. 91—54.5.)



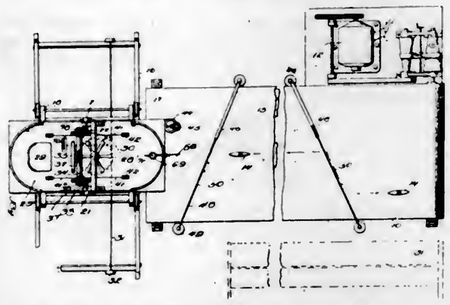
1. An inking pad comprising a base block, an ink-saturated body resting on said block, a relatively thin ink-impervious layer on the upper face of the ink-saturated body, and a fabric covering across the upper face of the impervious layer and attached to the base block.

1,381,157. MOTOR-VEHICLE SPRING SUSPENSION. HENRY A. BABCOCK, Evanston, Ill., assignor, by direct and mesne assignments, to The Babcock-Gallagher Company, Columbus, Ohio, a Corporation of Ohio. Filed Jan. 18, 1917. Serial No. 143,160. 19 Claims. (Cl. 267—19.)

3. An automobile chassis comprising a frame, having a transverse member, a pair of links on each side of said frame, a pair of longitudinally disposed springs each connected at opposite ends to a pair of said links, a transverse spring connected at its middle portion to said transverse member leaving its ends free to be deflected, and links connecting said free ends to said first springs.
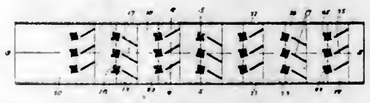


1,381,158. BOMBER'S TRAINING DEVICE. EDWARD H. BARRY, Newton, Mass., assignor to The Government of the United States. Filed Feb. 18, 1919. Serial No. 277,735. 8 Claims. (Cl. 244—1.)



1. In an aviator's training device, the combination of means for moving the same, an aviator's support mounted thereon, and means for causing the support to simulate airplane movements with a moving target, means for moving the target toward the device, and means on the support for controlling the dropping of bombs onto the target.

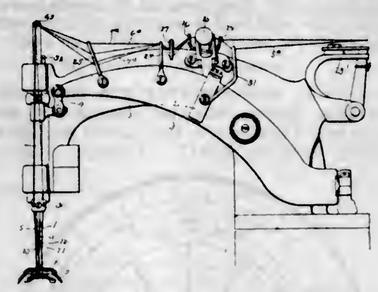
1,381,159. AMALGAMATING SLUICE-BOX. JOHN P. BEAUPRE, Butte, Mont., assignor of one-half to George E. Smiley, La Junta, Colo. Filed Sept. 22, 1920. Serial No. 412,046. 4 Claims. (Cl. 83—67.)



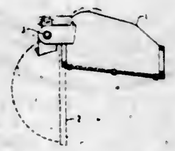
1. An amalgamating device including a sluice box, transversely arranged amalgamating plates disposed in the box, at suitable intervals, a plurality of series of diagonally arranged deflector ribs, said series being disposed between the amalgamating plates, the sluice box having a plurality of transversely extending series of mercury pits between the plates and ribs, the ribs of one series extending in a direction opposite to the ribs of the adjacent series, and tangentially to one side of the pits, and rotating deflectors floatable on the mercury in said pits.

1,381,160. THREAD-CONTROLLING MECHANISM FOR SEWING-MACHINES. JOSEPH BERGER, Jr., Utica, N. Y., assignor to Union Special Machine Company, Utica, N. Y., a Corporation of New York. Filed Dec. 30, 1916. Serial No. 139,825. 2 Claims. (Cl. 112—242.)

1. The combination of a needle bar, a plurality of needles carried thereby, a needle lever, thread eyes carried by the needle lever, a fixed thread arm having thread eyes for the needle threads, said arm being inclined to the plane of the needle lever whereby the movable thread eyes carried by the needle lever will pull off and give up different amounts in the respective threads.

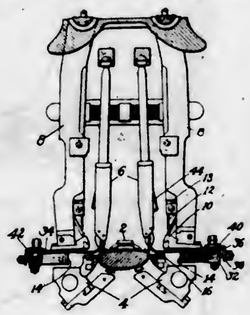


1,381,161. HEADLIGHT-REFLECTOR. JOSEPH BESCH, Albany, N. Y. Filed July 15, 1919. Serial No. 310,960. 2 Claims. (Cl. 240—41.)



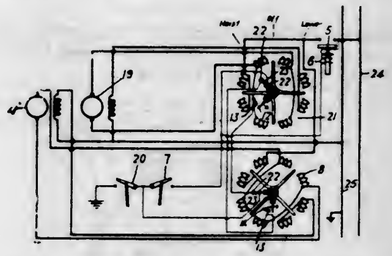
1. In a device of the character described, a body or hood curved to conform to the shape of the headlight, projecting forward from said headlight and secured thereto by means of adjustable clamps in such a manner as to permit varying the angle which said hood makes with the horizontal; a light mounted inside said hood; the inside of said hood being a reflecting surface and said hood being so shaped that the light rays, either from said light or from the headlight, will be reflected backward downward and sidewise; and a plane of glass curved to fit the lower rim of said hood and closing the device.

1,381,162. MACHINE FOR WORKING UPPERS OVER LASTS. URBAIN J. BOUCHARD, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 18, 1918. Serial No. 263,031. 19 Claims. (Cl. 12—4.)



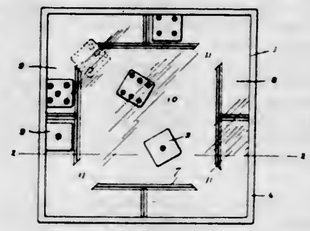
1. In a machine of the class described, the combination with a shoe positioning means, of a wiper support mounted for operative movement toward the shoe, a wiper so mounted on said support as to permit it to move relatively to the support in directions transverse to the plane of the shoe bottom and also to permit the support to move relatively to the wiper in the direction of the shoe if the wiper is held back by the shoe materials, yieldable means on the support to force the wiper forwardly toward the shoe and also to depress its overwiping portion in a normal initial relation to the plane of the shoe bottom, and means constructed for use at the will of the operator to position the wiper in such different relation to the plane of the shoe bottom as to decrease the resistance to operative movement of the wiper over the shoe.

1,381,163. MOTOR-CONTROL SYSTEM. ADDISON E. BOGGS, Pittsburgh, and AUGUST HECKMAN, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 6, 1915. Serial No. 26,319. 13 Claims. (Cl. 172—152.)



1. In a motor-control system, the combination with a pair of electric motors and a controller for each of said motors, of electrical means for connecting said controllers, whereby each of said controllers is inoperative when the other controller is in an operative position, and means for permitting reversal only of either motor when the other motor's controller is in an inoperative position.

1,381,164. GAME. EDWARD G. BRADBURY, Columbus, Ohio. Filed Aug. 3, 1920. Serial No. 400,962. 3 Claims. (Cl. 46—41.)

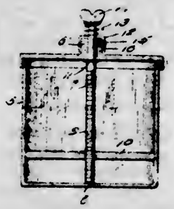


3. In a game apparatus of the class described, a relatively shallow receptacle, ribs provided in the bottom of said receptacle, said ribs serving to divide the receptacle into inner and outer spaces, counter members of cubical form arranged to be transferred from one of said spaces to the other against the operation furnished by said ridges, and said counter members being capable of passing through gaps formed between adjacent ends of said ridges.

1,381,165. CONTAINER. ARTHUR S. BRONSON, El Paso, Tex. Filed Mar. 6, 1920. Serial No. 363,908. 1 Claim. (Cl. 221—79.)

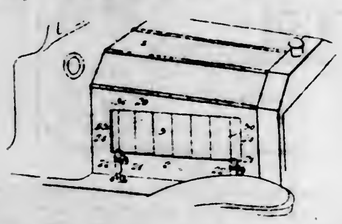
In a device of the character described, the combination with a container, a neck extension thereon, a cap slidably mounted upon said neck extension, a threaded stem controllable from the exterior of the receptacle, a spring acting upon said closure cap and normally tending to close the same, a follower, there being a port leading from the interior of the receptacle through the neck extension of the underside of the closure cap and a port opening at the

side of said neck extension and adapted to be uncovered by the movement of the closure cap under the action of the



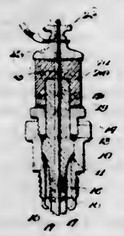
pressure created within the container by the movement of the follower.

1,381,166. AUTOMOBILE-HOOD. CHRIST T. CHRISTIANSON, Brooklyn, Md. Filed July 9, 1920. Serial No. 395,067. 1 Claim. (Cl. 180—69.)



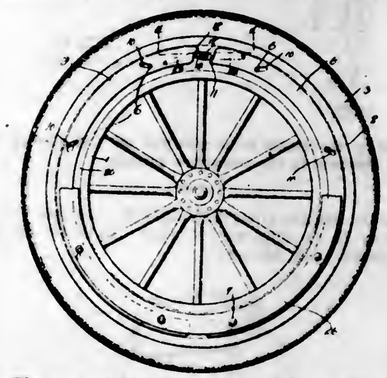
In an air control for automobile hoods, a hood member having an elongated air passage, a series of shutter blades pivotally mounted on the inside of the hood crosswise of the opening therein and to fold flatwise upon one another, a control lever to which all of the blades are individually pivoted, the said control lever including an inwardly projected angle member; in combination with means for adjusting the shutter blades to their partially or wholly closed positions, the said means comprising a horizontal bearing plate having a sleeve-like head portion adapted for being fitted through the vehicle dash and having ratchet teeth, and a pull lever slidably mounted on the bearing plate to work through the sleeve-like head thereof, the said lever including a crank-like member with which the angle member on the control lever slidably interlocks, the said pull lever having a ratcheted edge for interlocksably engaging the ratchet teeth on the bearing member whereby to lock the control lever to the adjusted position.

1,381,167. SPARK-PLUG. ADOLFO DE CLAIRMONT, Toledo, Ohio, assignor to The Carbo-Gas Company, Toledo, Ohio. Filed Sept. 13, 1919. Serial No. 323,630. 1 Claim. (Cl. 123—169.)



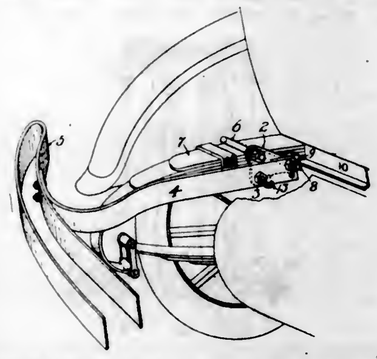
In a spark plug, the combination of a shell having a ground electrode depending from the lower end thereof, an insulator fitting through the shell, a main electrode carried by the insulator, and a metallic band snugly fitting around the lower end portion of the insulator wholly within the lines of the shell and next to the inner wall thereof in spaced relation to said wall to define an intermediate air gap between the band and the shell throughout the length of the band, there being an intermediate electrode depending from said band to coöperate with the main and ground electrodes below the lower end of the shell.

1,381,168. DEMOUNTABLE RIM FOR VEHICLE-WHEELS. EDWARD O. COATS, Postoak, Mo., assignor of one-half to Griffin Leroy Hall, Leeton, Mo. Filed Nov. 5, 1917. Serial No. 200,417. 4 Claims. (Cl. 301—27.)



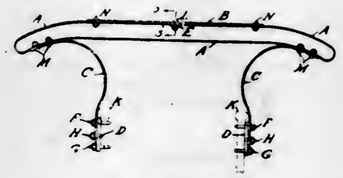
1. The combination with a wheel, and a demountable rim mounted upon the wheel felly, of a retaining element comprising a pair of substantially semi-circular sections, two of the proximate ends of said sections containing projections and being spaced apart, and adapted to be moved toward and away from each other for contraction and expansion, a spreader pivotally mounted intermediate said ends, and projecting laterally from the wheel, links pivotally connecting said spreader with each of said proximate ends, said spreader adapted to abut against the proximate ends to be rotated, to force said ends apart to expand the rim, said rim when expanded in such position having the pivoted links connected to said spreader past dead center, and the ends of the spreader abutting the projections on the sections.

1,381,169. ATTACHING DEVICE FOR AUTOMOBILE-BUFFERS. THEODORE M. COX, Albany, N. Y. Filed Feb. 15, 1921. Serial No. 445,080. 1 Claim. (Cl. 293—55.)



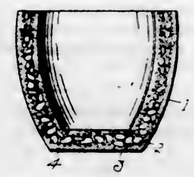
An attaching device for automobile buffers comprising a plate adapted to be interposed between the supporting member of the buffer and a spring of the automobile, said plate having a projection on the end thereof adapted to contact with a ledge on the automobile frame, and a projection carrying a set screw formed on the side thereof, said screw so positioned that it is adapted to contact with the underside of the automobile spring when the plate is in position; a bolt adapted to fasten said plate to said buffer supporting member at a point intermediate the ends thereof; and a U bolt adapted to embrace said spring and fasten said plate and the end of said supporting member securely against said spring.

1,381,170. AUTOMOBILE-BUFFER. THEODORE M. COX, Albany, N. Y., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Filed June 11, 1920, Serial No. 388,321. Renewed Mar. 3, 1921. Serial No. 449,501. 6 Claims. (Cl. 293—55.)



5. In an automobile buffer, an impact receiving member comprising a single piece of flat spring material formed into an elongated loop having rounded ends slightly curved in the plane of the loop sides, and a reinforcing strap joining the free ends of said loop; curved rearwardly extending resilient supporting members adjustably attached to said impact receiving member, attachment plates adjustably attached to the ends of said supporting members; a hook bolt extending through said supporting member and one end of said attachment plate, the hook end thereof adapted to engage with one of the flanges on a channeled side bar of an automobile frame; a hook-bolt extending through the other end of said attachment plate the hook end thereof adapted to engage with the other flange on said side bar; and nuts co-acting with said hook-bolts to clamp said attachment plates and said supporting members securely to the side bar of an automobile frame.

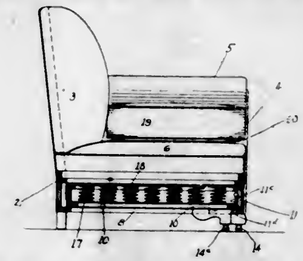
1,381,171. CRUCIBLE AND METHOD OF MANUFACTURE. WILLIAM A. DARRAH, Mansfield, Ohio. Filed Jan. 3, 1918. Serial No. 210,124. 6 Claims. (Cl. 25—156.)



1. The process of making crucibles which consists in mixing finely ground inert refractory, coarsely ground inert refractory and a colloidal binder, adding fluid until the mixture is liquid, pouring into a porous mold capable of absorbing said fluid and, after removing the mold, baking the product.

1,381,172. DAVENPORT-BED. ABRAHAM DAVIS and NATHAN B. HELFMAN, Minneapolis, Minn. Filed Apr. 12, 1920. Serial No. 373,254. 6 Claims. (Cl. 5—46.)

3. The combination, with a frame, of a forwardly slidable bed extension therefor, a seat cushion for said frame, an extension cushion normally supported by said seat cushion and connected therewith to form a continuous upper bed surface when said extension cushion is tilted over upon said extension, said connection normally providing a gap between the forward portions of said cushions, for the purpose specified.

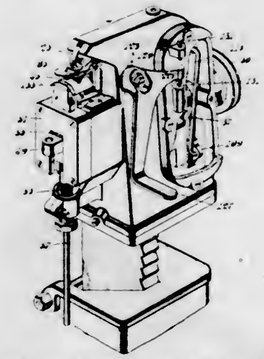


1,381,173. INLAID-TREAD TIRE. JOSEPH H. DWORK, Newark, N. J. Filed Mar. 14, 1919. Serial No. 282,681. 2 Claims. (Cl. 152—13.)



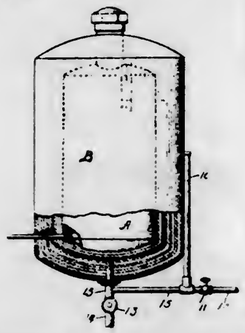
2. A tire casing including a fabric structure thickened toward the outer periphery, spaced circumferential ribs included in said thickened structure, with reinforcing means running longitudinally of the ribs; a covering of rubber or the like applied to the casing and thickened toward said ribs to include and conceal them, breaker strips applied to the casing between said ribs, and a tread structure applied to the breaker strips.

1,381,174. CHANNEL-FLAP-TURNING MACHINE. EDWARD ERICKSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 18, 1918. Serial No. 217,934. 18 Claims. (Cl. 12—30.)



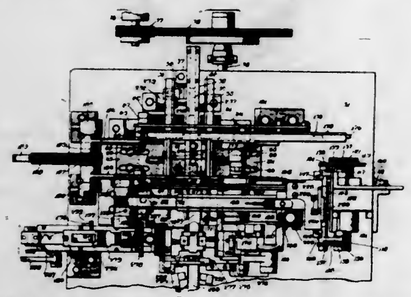
1. A machine of the class described, having, in combination, a support for a channeled sole, a hammer, a flap turner, means for moving the flap turner backward along the channel to raise and turn the flap, and means for moving the flap turner and the sole forward to present the turned flap to the hammer.

1,381,175. ANTIEXPLOSIVE AND NON-INFLAMMABLE GASOLENE-TANK. HERMAN C. ERICSSON, U. S. Army. Filed Feb. 14, 1919. Serial No. 277,119. 11 Claims. (Cl. 220—63.)



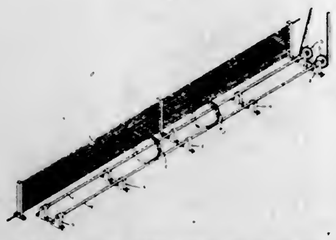
1. An expansible elastic packing tightly confined between two rigid metallic shells consisting of layers of puncture-closing rubber and bullet-wiping fibrous material, for the purpose set forth.

1,381,176. BOX-SLIDE-MAKING MACHINE. ARTHUR J. EVERS and HERBERT J. SAUVAGE, Chicago, Ill., assignors to W. C. Ritchie & Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 25, 1920. Serial No. 412,779. 14 Claims. (Cl. 93—40.)



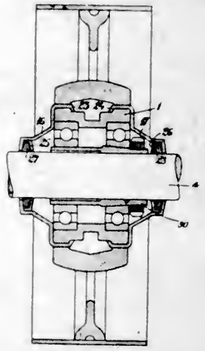
1. In a box-making machine of the character described, the combination of two forms, means to partially construct a duplex box member composed of a foundation strip and a cover strip on one of said forms, means to transfer such partially-completed member to the second form, and means to complete the construction of the member on said second form, substantially as described.

1,381,177. RIM-FINISHING MACHINE. GEORGE F. FISHER, Providence, R. I., assignor to The Revere Rubber Company, a Corporation of Rhode Island. Filed July 9, 1920. Serial No. 395,094. 3 Claims. (Cl. 91—60.)



1. Apparatus of the class described comprising, spaced parallel driven shafts, bearings supporting said shafts at the ends and intermediately, said shafts being adapted to support and turn annular rims between their bearings, and having their entire length substantially free and unobstructed upwardly for the reception of a plurality of the rims.

1,381,178. BEARING FOR LOOSE PULLEYS. BENGT WIKTOR FJELLMAN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Aug. 28, 1919. Serial No. 320,427. 6 Claims. (Cl. 64—17.)



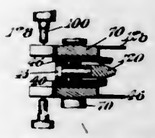
1. A bearing construction for loose pulleys, comprising roller bearings, a sleeve adapted to surround said bearings, and two housing caps each surrounding one end of the said sleeve and in turn adapted to be surrounded by the loose pulley.

1,381,179. APPARATUS FOR AND METHOD OF MAKING RECEPTACLES. MORRIS GERSON, Duluth, Minn. Filed Jan. 31, 1920. Serial No. 355,434. 4 Claims. (Cl. 18—56.)



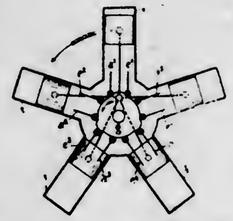
4. The herein described method of making a receptacle composed of a plurality of parts built up of material susceptible of subsequent shaping and fixing, embodying first, the shaping of the parts upon a form, placing the shapes thus formed into a mold, placing an expansive bag within the combined parts of the receptacle applying heat to the interior of the bag and subsequent pressure for the final shaping and fixing of the receptacle.

1,381,180. DUPLEX FASTENER-SETTING MACHINE. PERLEY R. GLASS, Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 24, 1916. Serial No. 99,556. 40 Claims. (Cl. 218—15.)



5. A duplex fastener setting machine having, in combination, a pair of punching plates having extended transverse surfaces and being arranged for movement in alined paths, a transversely movable punch holder disposed between the punching plates, a double ended tubular punch in the holder, and coöperating fastener inserting devices.

1,381,181. OPERATING MECHANISM FOR EXPLOSION-ENGINES. FRITZ GOCKERELL, Munich, Bavaria, Germany. Filed Feb. 26, 1920. Serial No. 361,482. 1 Claim. (Cl. 123—44.)



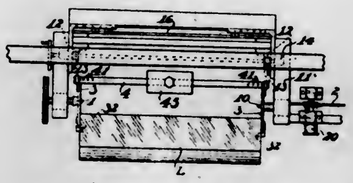
Control device for explosive motors with an uneven number of cylinders arranged in star formation, characterized thereby that the adjacently arranged inlet and outlet valves are provided in the same plane of rotation and are successively controlled by a single cam disk with successively provided singly stepped cams whose drive takes place with a decreasing number of revolutions.

1,381,182. AUTOMOBILE-BUMPER. OSCAR H. GOETZ, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 6, 1920. Serial No. 422,143. 5 Claims. (Cl. 293—55.)



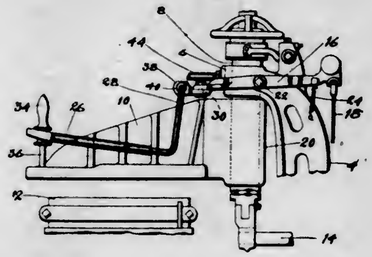
1. In an automobile bumper designed for mounting laterally against the side bar of the vehicle to be served, in combination with an impact member, supporting arms each having longitudinally separated from each other a bolt hole and a longitudinally-extended slot; a mounting bracket adapted to be engaged with the spring shackle bolt of the vehicle, and having a slot corresponding to the slot of the supporting arm, and a second slot extending up and down at a distance from the first slot substantially agreeing with the distance between the bolt hole and the slot of the supporting arm; a bolt for taking through the corresponding slots of the arm and bracket respectively, to clamp said parts against the vehicle side bar, and a second bolt taking through the bolt hole of the arm and the second slot of the bracket for clamping said parts together.

1,381,183. AUXILIARY LOG-SUPPORTING MEANS FOR CLAPBOARD-SAWING MACHINES. EDWIN M. GRAY, Everett, Wash. Filed Sept. 20, 1920. Serial No. 411,460. 7 Claims. (Cl. 143—125.)



1. An auxiliary dog for use with clapboard sawing machines comprising a member having centering means therein, a set of bolt-engaging members at one end thereof, and having means at its opposite end for the engagement of a spacing bar.

1,381,184. CUTTING-MACHINE. HENRY B. GREENOUGH, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 8, 1919. Serial No. 322,374. 7 Claims. (Cl. 164—23.)



1. In a machine of the class described, a work supporting bed, a presser member movable over the bed and also toward and from the bed in pressure applying operations, a post for supporting the presser member, a machine frame having a bearing for said post, power means for moving the presser member, and a single manually controllable means for moving the presser member over the bed and for controlling said power means comprising a lever pivoted on the bearing for the post, and a handle member pivoted to said lever on a vertical axis at one side of the bearing and in such manner that it may move with the presser member.

1,381,185. MANUFACTURING OF INDIA-RUBBER SUCKERS PROVIDED WITH VALVE-PROJECTURES. HERMANN GRIMELMANN, Wallisellen, Switzerland. Filed Aug. 26, 1920. Serial No. 406,163. 2 Claims. (Cl. 18—58.)

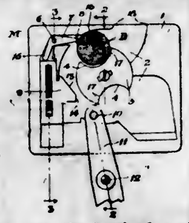


1. A method of manufacturing india rubber nipples provided with a valve projection consisting in repeatedly dipping a suitable core into a solution of india rubber until a hollow nipple with a valve projection is formed thereon, preliminarily vulcanizing the rubber upon the core after a suitable number of dippings, removing the nipple thus formed from the core, turning the nipple inside out, turning the valve projection inwardly, placing a suitable mold into the valve projection, vulcanizing the entire nipple, and finally cutting an aperture in the valve projection.

1,381,186. COIN-TESTING DEVICE FOR COIN-CONTROLLED MACHINES. ALBERT D. GROVER, New York, N. Y., assignor, by mesne assignments, to Autosales Corporation, a Corporation of New York. Filed Aug. 20, 1917. Serial No. 187,207. 8 Claims. (Cl. 194—100.)

1. In a coin-controlled machine, a casing provided with a coin-entrance slot and a coin-passage leading therefrom, a rotatable disk provided with a recess for receiving the deposited coin and carrying the same through said passage, and a pivoted pawl having a pointed end extending into said passage to enter the edge of a soft check in said coin disk and cause said check to be jammed between the coin disk and the opposite wall of said pas-

sage, said coin disk being reversely rotatable to bring the intercepted check back through the coin-entrance



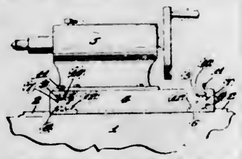
slot, said pawl riding over the hard edge of a proper coin to allow the same to be carried into the machine.

1,381,187. BRIDGE FOR MUSICAL STRINGED INSTRUMENTS. ALBERT D. GROVER, New York, N. Y. Filed Aug. 14, 1918. Serial No. 249,788. 18 Claims (Cl. 84—308.)



1. A bridge for musical stringed instruments, consisting of a bar and a pair of end supports separate therefrom, said bar and said supports being provided with interlocking slotted portions, whereby said supports are locked against movement along said bar and against lateral tipping, certain of the slots in said slotted portions being of different depths to enable said bar to be supported at different heights.

1,381,188. MEANS FOR REDUCING FRICTION. JOHN B. GURY, St. Louis, Mo. Filed May 10, 1919. Serial No. 296,155. 6 Claims. (Cl. 74—87.)



1. The combination of a body having a slidable contact with a support, and a resilient antifriction bearing carrying the preponderance of the weight of said body to relieve the pressure thereof from said support.

1,381,189. ELECTRIC INSULATOR. EMIL HAEFELY, Basel, Switzerland. Filed Dec. 22, 1919. Serial No. 346,609. 3 Claims. (Cl. 173—318.)



2. An electrical insulator comprising a core of insulating material, metal caps at the ends thereof, said core being provided with a coarse screw thread, a number of insulating units provided with a corresponding internal coarse screw thread and screwed upon the screw thread of the core, smooth metal bushings at the ends of the insulating units for tight insertion into one another, substantially as described.

1,381,190. SAVINGS-BANK. CHARLES D. HENNINGER, Williamsport, Pa. Filed June 25, 1920. Serial No. 391,684. 1 Claim. (Cl. 232—4.)



A device of the class described consisting of a substantially flat elongated body having measurement indications on the exterior thereof, said body being hollow to receive and retain coins in edge to edge relation and said body having a slot through which the coins may be viewed to determine their combined length with the aid of said indications, the device thus functioning as both a ruler and as a bank, a closure for the body having measurement indications thereon to coöperate with those of the body, and means to insure application of the closure to a position with the said indications in coöperative relation.

1,381,191. ROLLER-BEARING. ALBERT J. HIGSON, Jersey City, N. J., assignor to The J. G. Wilson Corporation, a Corporation of Virginia. Filed Nov. 6, 1917. Serial No. 200,612. 4 Claims. (Cl. 74—87.)

1. A bearing of the class described comprising a body portion substantially T-shaped in cross-section and roller bearings pivotally secured in the web of said body portion.

1,381,192. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. WILLIAM J. HISS, New York, N. Y., assignor to Diamond Expansion Bolt Company, New York, N. Y., a Corporation of New York. Filed Oct. 2, 1920. Serial No. 414,188. 1 Claim. (Cl. 248—36.)

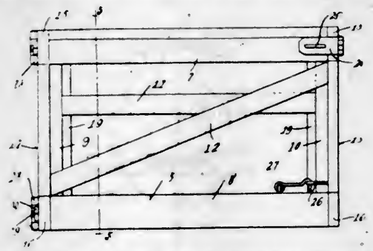


A new article of manufacture comprising an open bridle ring having one of its ends unsupported, its other end being bifurcated and provided with means to coöperate with a conduit or cable clamp.

1,381,193. SHIPPING-CRATE. LOUIS H. HOCKSPEIER, New Hampton, Iowa. Filed June 15, 1920. Serial No. 389,170. 2 Claims. (Cl. 217—48.)

1. In a folding crate, side walls and end walls, each of the end walls having an inwardly extending frame contacting with the side walls, means for hingedly connecting one of the end walls to one of the side walls, bolts

carried by the opposite side wall, and adapted to extend through openings formed in the hinged end wall for securing the end wall thereto, and a removable end wall disposed within the opposite end of the crate.

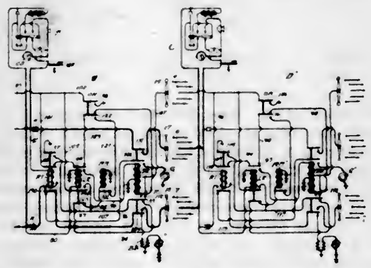


1,381,194. DILATOR. JOHN G. HOMAN, Steubenville, Ohio, assignor to Electrothermal Company, Steubenville, Ohio, a Firm composed of said John G. Homan, Steubenville, Ohio, and William J. Kirk, Follansbee, W. Va. Filed Jan. 17, 1920. Serial No. 352,058. 8 Claims. (Cl. 174—89.)



1. A dilator comprising a hollow casing having a transparent portion, means therein for emitting light, other means therein for emitting heat, and separate controlling means including separate circuits for each of said means.

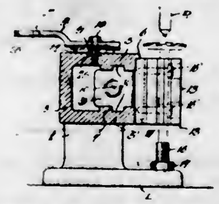
1,381,195. TELEPHONE SYSTEM. HARRY H. IDE, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1919. Serial No. 297,244. 26 Claims. (Cl. 179—16.)



1. A telephone system including a subscriber's line, an automatic adding-type connector switch individual to said subscriber's line controlled over the two sides of the subscriber's line in series, a single row or level of bank contacts for said automatic switch, other subscribers' lines terminating in said bank contacts, subscriber-controlled means for said switch for connecting said first subscriber's line to any one of said other subscribers' lines, subscriber-controlled means for ringing the called substation, and automatic means for moving said switch to normal position.

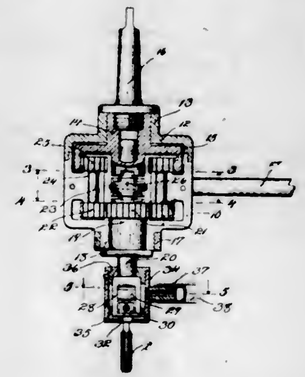
1,381,196. CHUCK. WILLIAM N. JOHN, Milwaukee, Wis. Filed Aug. 8, 1919. Serial No. 316,202. 1 Claim. (Cl. 77—62.)

A universal chuck comprising a supporting base, a normally vertical standard rising from the base, a normally horizontal elongated screw housing mounted on the standard and comprising parallel upper and lower plates, a side plate connecting the longitudinal edges of the upper and lower plates on one side thereof, the opposite side of the housing being open, and end plates connecting the ends of the upper and lower and side plates, a feed screw disposed in the housing parallel with the upper and lower plates and having its end portions journaled in said end plates, the free ends of the screw being projected beyond said end plates to form wrench or handle receiving portions, the feed screw on each side of its center being screw threaded in opposite directions, jaw carrying screw blocks



disposed one on each of said oppositely threaded sections of the feed screw and having portions extended through said open side of the screw housing and to one side thereof, said extended portions being in sliding engagement with the adjacent longitudinal edges of said upper and lower plates, and interchangeable jaws detachably secured to the said extended portions of the screw blocks, the upper surface of said upper plate being plane and adapted to adjustably support a drill guide and to hold the same out of the way of and in parallelism with said jaws.

1,381,197. REVERSIBLE TAPPING-CHUCK. WILLIAM N. JOHN, Milwaukee, Wis. Filed Jan. 19, 1920. Serial No. 352,455. 4 Claims. (Cl. 10—138.)

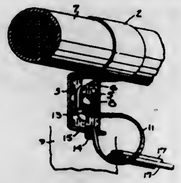


4. A chuck device of the class described, a drive shaft, a head portion on said drive shaft provided with a transverse slot, a tool member having a rounded shank portion terminating in a squared extremity and insertible in the slot of the head portion, a block transversely slidable in the slot of the head portion and provided with a squared aperture for loosely receiving the squared extremity of the tool shank, a collar loosely disposed in the slot of the head below said block and adapted to receive the tool shank, and means for binding the shank in the collar.

1,381,198. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. JOHN KARITZKY, Garwood, N. J., assignor to Henry B. Newhall, Plainfield, N. J., executor of Henry B. Newhall, Sr., deceased. Filed Aug. 17, 1920. Serial No. 404,161. 4 Claims. (Cl. 248—36.)

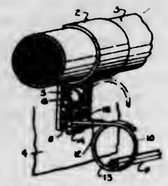
1. A conduit or cable clamp provided with a hook portion and a base, the base being provided with a boss raised

above the surface of the base, the boss having an opening for the reception of a securing screw, the boss and



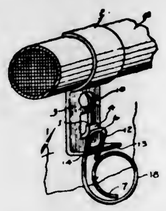
base being provided with means to coöperate with and hold both ends of a bridle ring.

1,381,199. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. JOHN KARITZKY, Garwood, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Oct. 14, 1920. Serial No. 416,980. 3 Claims. (Cl. 248—36.)



1. The combination of a conduit or cable clamp having a hook portion to support a conduit or cable and a base to lie against a wall or other suitable support, the base being provided with a flange having a plurality of non-alined openings, and a bridle ring having means to be threaded through said non-alined openings and bear on both the upper and lower surfaces of the flange to secure the bridle ring to the clamp.

1,381,200. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. JOHN KARITZKY, Garwood, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Oct. 14, 1920. Serial No. 416,981. 2 Claims. (Cl. 248—36.)

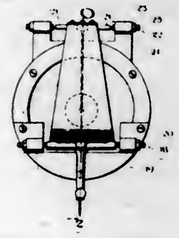


1. A conduit or cable clamp provided with a hook portion to support a cable and a base, the base being provided with another integral hook extending parallel with the longitudinal axis of the conduit or cable clamp to support a bridle ring.

1,381,201. REPRODUCER FOR TALKING-MACHINES. JOHN W. KAUFMANN, Baltimore, Md. Filed June 21, 1920. Serial No. 390,482. 6 Claims. (Cl. 274—35.)

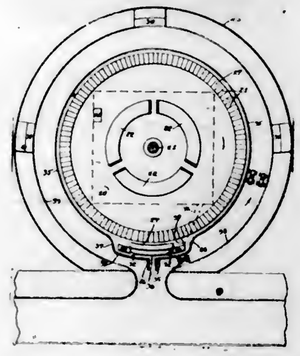
3. In reproducers, the combination with the sound box, and the reproducer lever and the needle holder pivoted at opposite sides thereof, of a spring directly connected at its opposite ends to said lever and said needle holder and gradually decreasing in strength and resistance from the needle holder toward the reproducing lever.

6. In reproducers, the combination with the sound box, and the reproducer lever and the needle holder pivoted



at opposite sides thereof, of a plate spring connecting said lever and needle holder, said needle holder having a cross-shaped base for connection with the spring.

1,381,202. STORE CONSTRUCTION. JEWEL WARREN KING, Memphis, Tenn. Filed Nov. 13, 1920. Serial No. 423,906. 5 Claims. (Cl. 211—8.)



5. A store of the type described embodying a central rotatable structure provided at its periphery with display compartments, a stationary counter arranged adjacent the periphery of said central rotatable structure, a counter arranged adjacent each end of the first named counter, a partition extending intermediate the last named counters and in spaced relation to the first named counter and provided adjacent each of the last named counters with a one-way gate, an annular vehicle track formed about said rotatable structure and said counters, said track having portions thereof extending immediately adjacent the periphery of the central rotatable structure, said portions being of sufficient width to permit the passage of one vehicle by another, the portions of said track adjacent said counters being restricted and permitting the passage of but a single vehicle, a stationary outer wall arranged in spaced relation to said vehicle track and provided with an opening composing the first named counter and a roof supported by said stationary outer wall having its central portion supported by the upper end of said central rotatable structure.

1,381,203. FISH-TRAPPING NET. FRANK KUWIK, Blasdell, N. Y. Filed Jan. 13, 1921. Serial No. 436,933. 3 Claims. (Cl. 43—100.)
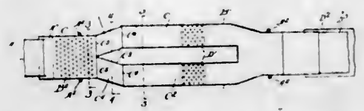
1. A fish net comprising an elongated cylindrical body made up of a netting secured upon a series of rings, entrance funnels leading into the said body from opposite

ends thereof, means connecting the inner ends of said funnels to one another, a flat web of netting connected



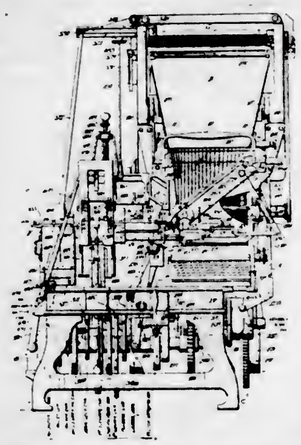
to one end of said body and diametrically intersecting the opening into the adjacent entrance funnel.

1,381,204. COMBINED SCREEN AND PICKING-TABLE. RAYMOND G. LAWRY, Chicago, Ill., assignor to Roberts & Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 30, 1920. Serial No. 377,836. 16 Claims. (Cl. 83—56.)



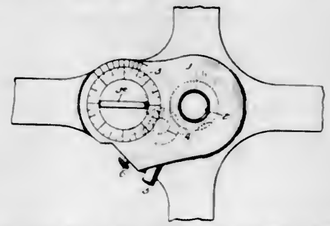
1. A picking table having at both ends relatively wide conveying surfaces and intermediate such wide surfaces having a plurality of separate narrow conveying surfaces arranged in parallel, there being sufficient space between the narrow surfaces to permit an operator to stand and work between them.

1,381,205. TYPOGRAPHIC MACHINE. FREDERICK W. LETSCH, Baltimore, Md. Filed Mar. 15, 1918. Serial No. 222,760. 31 Claims. (Cl. 199—13.)



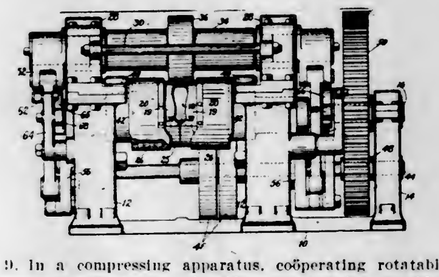
10. In a typographic machine having an assembling and casting mechanism, an assembler slide for receiving a line of matrices and transferring the same to the casting mechanism, in combination with a brake bearing on the assembler slide and adapted to control its forward movement during the assembling of a line of matrices, means for lifting and holding the brake out of contact with the slide during the movement of the slide after the line is assembled, and means on the slide for operating said lifting means.

1,381,206. STEERING-HEAD LOCK. THOMAS C. LONNEY, Chicago, Ill., assignor of one-half to Elgin D. Shupert, Chicago, Ill. Filed Mar. 11, 1920. Serial No. 364,885. 12 Claims. (Cl. 70—129.)



1. A permutation lock-control for a shaft and its wheel, comprising a rotary bolt carried by one of said members and adapted to control the driving connection between them, and a series of rotary tumblers each adapted to intersect the periphery of said rotary bolt and positively hold it in position to prevent drive of the shaft by the wheel.

1,381,207. COMPRESSING APPARATUS. THOMAS LUND, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 21, 1917. Serial No. 187,490. 25 Claims. (Cl. 12—21.)

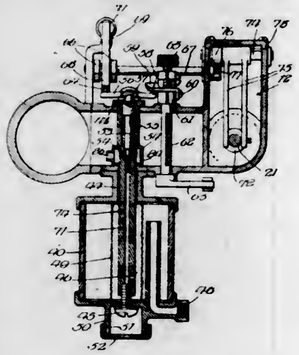


9. In a compressing apparatus, coöperating rotatable pressure members, one of said members being provided with a recess to receive the article to be compressed, said members operating in contact with one another during the compressing operation, and means for permitting the discharge of the article which has been compressed, including means for separating the pressure members prior to the discharge of the article.

1,381,208. CARBURETER. EDWARD F. MCCARTHY, Chicago, Ill. Filed Sept. 18, 1918. Serial No. 254,559. 5 Claims. (Cl. 261—51.)

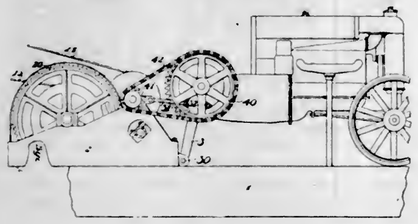
1. A carbureter embodying a fuel supply nozzle, a needle valve for controlling the nozzle, means tending normally to actuate the valve in one direction, a rocker arm detached from and supported intermediate its ends upon the end of and entirely by the needle valve, an air throttle valve, means for actuating the latter, a cam device connected with the air throttle valve to operate in unison therewith, the said cam device being detached from and engaging one end of the rocker arm to actuate the needle valve in opposition to the first recited means, an actuating member also detached from and operating upon the opposite end of the rocker arm to actuate the needle valve in opposition to the first recited means, and means for oper-

ating the said actuating member, the said actuating member and the cam device each serving as a fulcrum for the respective ends of the rocker arm.



5. A carbureter embodying a fuel supply nozzle, a needle valve for controlling the nozzle, means tending normally to actuate the valve in one direction, a rocker arm detached from but supported upon the end of the needle valve and entirely thereby, an air throttle valve, means for actuating the latter, a cam device pivotally connected with the air throttle valve and movable therewith, said cam device being detached from but engaging and resting upon one end of the rocker arm, an adjustable stop device carried with the air throttle valve and engaging the cam to vary the position of the cam with respect to the air throttle valve, said cam operating to actuate the needle valve, an actuating member detached from and operating upon the other end of the rocker arm to actuate the needle valve in the same direction as it is operated by the said cam, and means operating automatically to operate the said actuating member.

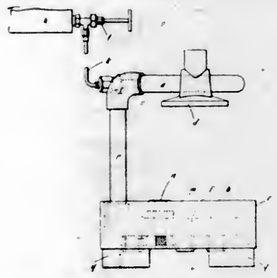
1,381,209. WINDING-ENGINE. SYDNEY S. MCINTYRE, Sedro Woolley, Wash. Filed Oct. 30, 1920. Serial No. 420,690. 6 Claims. (Cl. 254—166.)



1. A winding engine comprising a drum and its shaft, a second shaft, a power drive connecting the drum and said second shaft, a frame in which the aforesaid parts are journaled, tractor axle supporting members secured to one end of said frame and adapted to be adjusted toward and from the said second shaft, positive adjusting means connecting said axle-supporting members with the frame, and a power drive mechanism connecting each end of the tractor axle and the said second shaft.

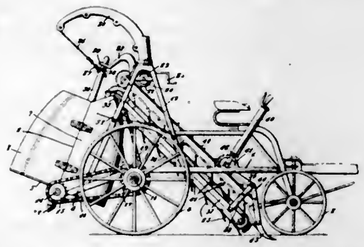
1,381,210. VAPOR-BURNER. ALEXANDER MACLENNAN, Clapham, London, England. Filed May 10, 1920. Serial No. 380,157. 5 Claims. (Cl. 158—63.)

1. In a vapor burner, the combination of a base, a doubly coiled pipe forming upper and lower horse-shoe shaped bends, the upper bend being in communication with a source of liquid fuel and the upper surface of the lower bend being perforated to form burner orifices, and a plurality of flame spreaders adjustable on the upper bends



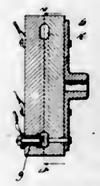
above said burner orifices, and having their peripheries close together.

1,381,211. PEANUT HARVESTER AND SHOCKER. GILBERT O. MAULSBY, Birmingham, Ala. Filed Nov. 30, 1918. Serial No. 264,833. 3 Claims. (Cl. 56—104.)



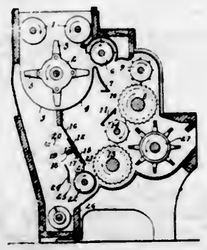
1. In a vine shocking machine the combination with an inclined casing open at the top and including hingedly connected sections, and a table mounted for rotation on the bottom of the casing, of a post removably mounted within and extending through the table and the bottom of the casing and adapted to be rotated by the table, said post having its lower end pointed, outwardly extending vine engaging members upon the post, a forked bearing for the upper end of the post, an arm mounted for lateral swinging movement and normally overhanging the casing, means supported by the arm for lifting the post out of the table and suspending it from the arm, means for rotating the arm with the post suspended therefrom, and means for lowering the post to direct the pointed end thereof into the ground.

1,381,212. LIQUID GAGE AND INDICATOR. JOHN W. MILLER, Seattle, Wash. Filed May 27, 1919. Serial No. 300,032. 3 Claims. (Cl. 200—152.)



1. A circuit closer comprising a disk inclusive of two coacting sections having their opposed sides flatly in contact and provided with annular grooves forming an internal channel, pairs of contacts extending from said coacting sections into said channel from opposite sides of the same, a quantity of mercury arranged in said channel, and means to operate said disk.

1,381,213. COTTON SEPARATING AND CLEANING MACHINE. JOHN E. MITCHELL, St. Louis, Mo. Filed Nov. 11, 1920. Serial No. 423,298. 3 Claims. (Cl. 19—9.)



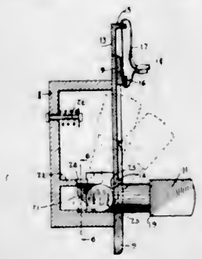
1. In a machine of the class described, in combination with cotton separating mechanism, a rotary member upon which cotton and hulls passing by the separating mechanism fall, said rotary member having an impact device and operating to move the cotton falling upon it into proximity to a member of said separating mechanism and to throw out hull particles, and a serrated member in the path of the particles thrown out by said rotary member for engaging any cotton thrown out along with the hulls and permitting its return to said rotary member.

1,381,214. UNIVERSAL CONNECTION. HENRY MOHR, Covington, Ky. Filed Mar. 13, 1920. Serial No. 365,580. 3 Claims. (Cl. 64—91.)



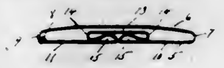
1. In a universal connection, a driving shaft section and a shaft section to be driven, a universal joint connecting said shaft sections, said joint comprising separable parts arranged in pairs, one pair connected to each shaft section and disposed in a plane at right angles to the other pair, a spherical member having grooves at right angles to each other, the bottoms of which have relatively narrow counter-grooves, the interior of the spherical member having intersecting ducts connecting with the counter-grooves and adapted to receive lubricant, the separable parts of each pair having arcuate shoes engaging the first grooves, whereby the shaft sections may relatively flex, means connecting the adjacent ends of the shoes of each pair of separable parts to prevent relative displacement of the ends, and circular felt rings engaging the counter-grooves for absorbing and supplying lubricant to the arcuate surfaces of said shoes.

1,381,215. FREIGHT-CAR-DOOR LOCK. JOHN F. MURPHY, Toledo, Ohio. Filed Oct. 7, 1920. Serial No. 415,253. 3 Claims. (Cl. 292—230.)



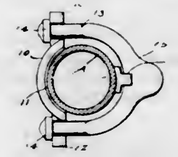
1. In a freight car door blocking means, a shell located substantially within the side surface of the car, and a pivoted block located in the shell and positioned so as to pivot into the path of the sliding door of the freight car, a sliding plate for releasing the block and closing the shell.

1,381,216. LINGERIE-CLASP. FAUSTO A. MUSCENTE, Providence, R. I. Filed Mar. 12, 1921. Serial No. 451,720. 4 Claims. (Cl. 24—259.)



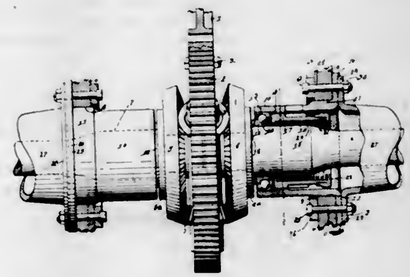
1. In a lingerie clasp, clamping arms, a bend connecting the arms, and a bearing plate having looped ends intermediate the arms and supported by one arm.

1,381,217. PIPE-CLAMP. JOHN MCCLELLAN NEELY, Lima, Ohio. Filed Nov. 23, 1920. Serial No. 426,072. 3 Claims. (Cl. 24—243.)



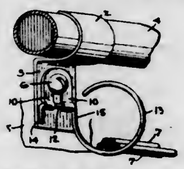
1. A pipe clamp comprising a saddle member having a curved face for conforming engagement with a pipe, a yoke straddlingly engaged upon the pipe and detachably connected with said saddle member, and a wedge member engaged between the bight portion of the yoke and the side of the pipe opposite the saddle member.

1,381,218. AXLE CONSTRUCTION. EDWARD C. NEWCOMB, Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed June 30, 1919. Serial No. 307,697. 8 Claims. (Cl. 74—7.)



7. In an axle construction for automobiles, the combination of a pair of oppositely disposed frame members, a driving gear wheel disposed between the frame members, a bearing corresponding to each frame member, means for securing each bearing to its corresponding frame member in a plurality of angularly adjusted positions about an adjusting axis, an axle carrying a gear wheel meshing with said driving gear wheel and supported to rotate in said bearings on an axis, said adjusting axis being eccentric to the axis of rotation of said axle, whereby a rotation of said bearings on the axis of adjustment will adjust said axle toward or from the driving gear wheel, and an axle housing carried by each of said bearings and moved bodily toward or from the driving gear wheel when the bearings are adjusted.

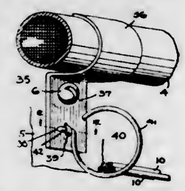
1,381,219. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY B. NEWHALL, Plainfield, N. J. Filed July 14, 1920. Serial No. 396,137. 4 Claims. (Cl. 248—36.)



1. The combination of a conduit or cable clamp having a hook portion and a base, a securing screw, a removable securing member adapted to be held on the base by the securing screw, said member being provided with a groove, and a pigtail bridle ring having a shank mounted in said groove.

4. A removable securing member to be used with a conduit or cable clamp to support the shank of a pigtail bridle ring, having an open slot and two arms, each of the arms being provided with grooves to coöperate with the shank of a bridle ring.

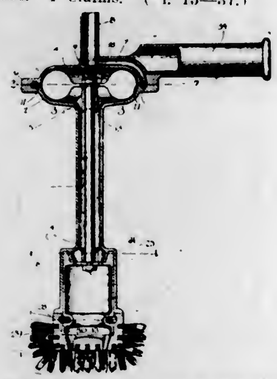
1,381,220. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY B. NEWHALL, Plainfield, N. J. Filed July 14, 1920. Serial No. 396,140. 5 Claims. (Cl. 248—36.)



1. A new article of manufacture comprising a conduit or cable clamp having a hook portion and a base, the base being provided with means to receive the end of a bridle ring and with additional means to coöperate with other portions of the bridle ring.

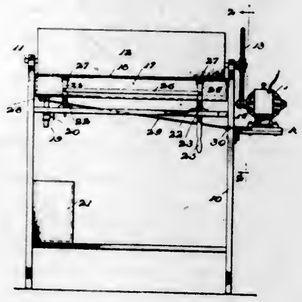
5. A new article of manufacture comprising a pigtail bridle ring having an open ring, a shank, and an arm at the end of the shank extending in a plane parallel to the open ring and adapted to fit into a hole in a coöperating conduit or cable clamp.

1,381,221. DISH-WASHING MACHINE. HENRY BUCHLER OVES, Erie, Pa. Filed Mar. 23, 1920. Serial No. 368,014. 4 Claims. (Cl. 15—37.)



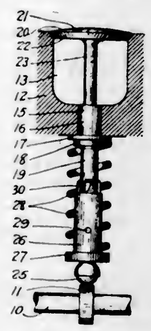
3. A dish washing machine, comprising a casing adapted for connection at one end with a source of water supply and to receive at the other end a soap chamber having ports through which the water may flow from the casing through the soap chamber, means controlled by the flow of the water for rotating said soap chamber within the casing, and a brush body detachably connected with the soap chamber.

1,381,222. DEVELOPING-MACHINE. SWEN PAULSON and ABRAM HATCH, Heber, Utah. Filed Feb. 20, 1920. Serial No. 360,192. 5 Claims. (Cl. 95—93.)



1. A developing machine including a supporting frame, a film receiving drum journaled thereon, pivoted tank supporting arms carried by the frame, a tank carried by said arms, and means holding the tank against swinging movement with the arms, the arms being operable for elevating the tank whereby a portion of the drum may be immersed.

1,381,223. VALVE. HENRY E. PELLETIER, Newark, N. J., assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 8, 1920. Serial No. 422,475. 3 Claims. (Cl. 123—90.)

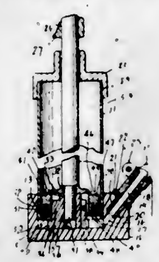


1. A valve of the class described comprising a disk, a seat receptive of the disk, a spindle on said disk, means for guiding said spindle, a sleeve fixed on the spindle, means for intermittently moving said spindle and disk in an axial plane and integral means formed on said sleeve coöperative with said spindle guiding means for partially rotating said valve and spindle at each axial movement thereof.

1,381,224. PUMP. SABATINO PETRICONE, Newport, Ky. Filed Aug. 23, 1920. Serial No. 405,290. 1 Claim. (Cl. 230—27.)

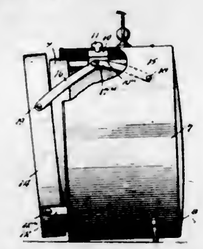
A pump comprising a cylinder, a piston-rod, the lower end of said piston-rod threaded and reduced in diameter to form an annular shoulder, a disk forming a valve-seat, received over said threaded end, a valve-guide having threaded connection with said threaded lower reduced

end to lock said disk to said valve-stem, said valve-guide provided with radial wings and with grooves between said wings to form passages, a sleeve about said wings, said sleeve provided with an upper annular valve-rib surrounding said passages and with an upper outer annular



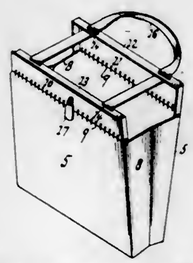
flange surrounding said valve-rib, and a depending cup-washer clamped to said flange and coacting with said cylinder, said wings provided with flanges to hold said sleeve to said valve-guide, and said sleeve arranged to reciprocate between said last named flanges and said disk.

1,381,225. ALARM-CLOCK. WILLIAM PFEIFER, Jr., Jersey City, N. J. Filed Oct. 28, 1919. Serial No. 334,100. 7 Claims. (Cl. 58—16.)



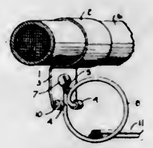
4. The combination with a clock having an alarm and mechanism for actuating said alarm, of means for rendering said mechanism inoperative, said means embodying a member located exteriorly of the clock and having spaced points of connection with the casing thereof whereby said member will be capable of movement relative to the clock casing, and means carried by said member adapted to render said actuating mechanism inoperative.

1,381,226. HANDBAG. HERMAN PICHEL, New York, N. Y. Filed July 14, 1920. Serial No. 396,209. 2 Claims. (Cl. 150—33.)



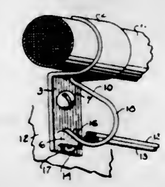
1. A hand bag having a pair of frames provided with angular jaw members to close one above the other, a pair of slots in each of the frames, one being above the other, a strap having its ends anchored in the slots of one of the frames, said strap movably coacting with the slots in the other frame to form a loop for holding the bag.

1,381,227. CABLE-CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, and JOHN KARITZKY, Garwood, N. J., assignors to Henry B. Newhall, Jr., executor of Henry B. Newhall, deceased. Filed Oct. 4, 1919. Serial No. 328,530. 4 Claims. (Cl. 248—36.)



1. A conduit and cable clamp having a hook portion and a heel portion, the heel portion being provided with bearings for a bridle ring and provided with a finger or stop.

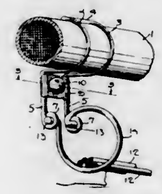
1,381,228. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, Jr., executor of Henry B. Newhall, deceased. Original application filed Jan. 23, 1920, Serial No. 353,623. Divided and this application filed May 7, 1920. Serial No. 379,517. 4 Claims. (Cl. 248—36.)



2. The combination of a conduit or cable clamp formed out of sheet material having a hook portion, a base having a struck up portion forming an elongated socket or recess to receive one end of a bridle ring and provided with means to receive the other end of the bridle ring, and a wire bridle ring having one end bent to form a hook to engage in said pocket or recess its other end being held by the means carried by the clamp.

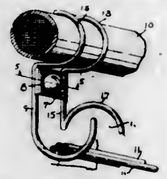
3. A new article of manufacture comprising a wire bridle ring having a bent hook at one end, and a compressible or yielding hook at the other end.

1,381,229. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, Plainfield, N. J., executor of Henry B. Newhall, Sr., deceased. Filed Aug. 17, 1920. Serial No. 404,168. 3 Claims. (Cl. 248—36.)



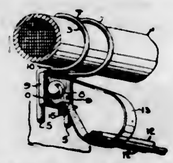
1. A wire conduit or cable clamp provided with a plurality of wire hooks and a plurality of wire bases, the wire bases being provided with means to coöperate with a bridle ring.

1,381,230. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, Plainfield, N. J., executor of Henry B. Newhall, Sr., deceased. Filed Aug. 17, 1920. Serial No. 404,169. 2 Claims. (Cl. 248—36.)



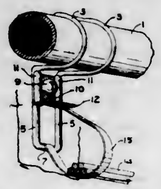
2. A wire conduit or cable clamp having two wire hooks to support a cable and two wire arms to form a base, both arms being extended and bent upon themselves to form an open bridle ring.

1,381,231. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, Plainfield, N. J., executor of Henry B. Newhall, Sr., deceased. Filed Aug. 17, 1920. Serial No. 404,171. 13 Claims. (Cl. 248—36.)



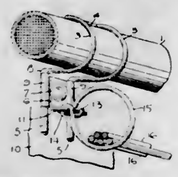
1. The combination of a wire conduit or cable clamp, and a saddle provided with means to support a sheet metal bridle ring.

1,381,232. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, Plainfield, N. J., executor of Henry B. Newhall, Sr., deceased. Filed Aug. 17, 1920. Serial No. 404,172. 4 Claims. (Cl. 248—36.)



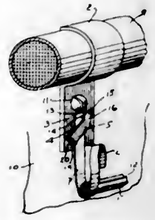
1. The combination of a wire conduit or cable clamp, means to secure it to a wall or other suitable support, and a bridle ring partly supported by said means and partly by the conduit or cable clamp.

1,381,233. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, Plainfield, N. J., executor of Henry B. Newhall, Sr., deceased. Filed Aug. 17, 1920. Serial No. 404,175. 4 Claims. (Cl. 248—36.)



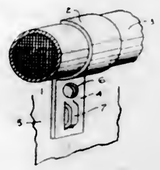
2. The combination of a wire conduit or cable clamp and a saddle, the saddle being provided with means to hold in the same horizontal plane both ends of a bridle ring.

1,381,234. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Oct. 14, 1920. Serial No. 416,954. 2 Claims. (Cl. 248—36.)



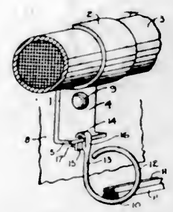
2. The combination of a conduit or cable clamp formed from sheet metal provided with a hook portion to support a conduit or cable, and a base to lie against a wall or other suitable support, the base being provided with a hole for a securing screw and with a single diagonal strap stamped up from the base, and a bridle ring having means to engage the upper and lower surfaces of said strap.

1,381,235. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Oct. 27, 1920. Serial No. 419,829. 6 Claims. (Cl. 248—36.)



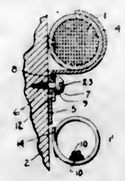
1. A new article of manufacture comprising a conduit or cable clamp provided with a hook portion to receive and hold a conduit or cable and with a base to lie against a wall or other suitable support, the base being provided with a vertical stirrup to coöperate with a locking hook of a bridle ring.

1,381,236. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Oct. 27, 1920. Serial No. 419,830. 1 Claim. (Cl. 248—36.)



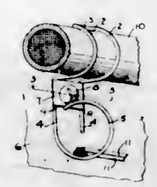
In a conduit or cable clamp the combination of a hook portion to engage and support a conduit or cable and a base to lie against a wall or other suitable support, a portion of the base being bent out to form a flange, the flange being provided with two parallel slots to coöperate with the shank of a bridle ring.

1,381,237. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Nov. 16, 1920. Serial No. 424,472. 6 Claims. (Cl. 248—36.)



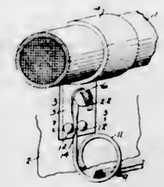
4. The combination in a conduit or cable clamp of a hook portion and a base, a screw for securing the base to a wall or other suitable support, a bridle ring, and means to hook the bridle ring under the head of the securing screw without operating the securing screw.

1,381,238. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Original application filed Aug. 17, 1920, Serial No. 404,169. Divided and this application filed Dec. 1, 1920. Serial No. 427,575. 1 Claim. (Cl. 248—36.)



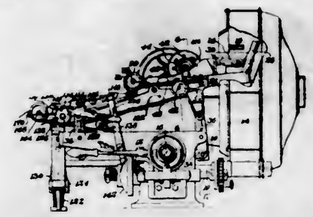
A new article of manufacture comprising a wire conduit or cable clamp having a plurality of wire hooks to support a cable and a plurality of arms to form a base, one of the arms being extended to form a complete bridle ring.

1,381,239. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall, executor of Henry B. Newhall, Sr., deceased. Filed Dec. 24, 1920. Serial No. 432,973. 5 Claims. (Cl. 248—36.)



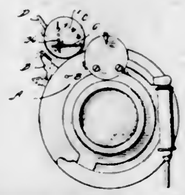
1. A conduit or cable clamp provided with a hook portion and a base having a hole for a securing screw, means to prevent the head of the securing screw contacting with the surface of the base, said means being of less diameter than the head of the securing screw, and means on the base to prevent the accidental or unauthorized swinging of a bridle ring with relation to the conduit or cable clamp.

1,381,240. NAIL-DISTRIBUTER. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 6, 1918. Serial No. 265,575. 78 Claims. (Cl. 83—92.)



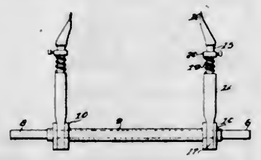
1. A nail distributer comprising a receptacle for holding mixed nails of different lengths, nail conduits, and means for conveying the nails of different lengths simultaneously from the receptacle to separate conduits individual to nails of predetermined lengths.

1,381,241. SHUTTER-OPERATING DEVICE. GARFIELD A. ROBERDS, Olathe, Kans. Filed July 18, 1919. Serial No. 311,754. 3 Claims. (Cl. 161—26.)



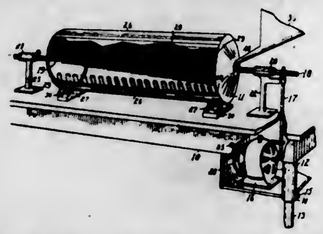
1. In combination with a camera shutter operating mechanism including an operating lever adapted to be manually operated, of a lug carried by said lever adjacent its free end portion and provided with a cam surface at one side, a lever movable in one direction to engage said lugs at a point opposite to said cam surface to actuate said first mentioned lever, and adapted to be guided past said first named lever by said cam surface in its movement in an opposite direction, and time controlled mechanism for actuating said lever in said first mentioned direction.

1,381,242. AUTOMATICALLY-ADJUSTABLE KNIVES FOR USE WITH RUBBER-WORKING CALENDERS. FRED A. SCHWARTZ, Brooklyn, N. Y. Filed Feb. 10, 1921. Serial No. 443,916. 4 Claims. (Cl. 18—2.)



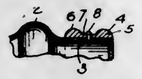
1. In automatically adjustable knives supporting apparatus for use with calenders that are adapted to calender rubber compounds, the combination of a hollow cylinder or sleeve that is adapted to encompass a length of shafting, the said length of shafting being extensive therefrom, and supported in horizontal position by means of suitable bearings that receive the extending ends, the said bearings being secured to the vertical frame or side standards of the said calender, and so positioned as to aline the upper horizontal surface of the said hollow cylinder or sleeve with the horizontal line of contact of the curved surfaces of the two lower positioned of three calendering cylinders that are positioned on the same vertical plane.

1,381,243. ELECTRIC COFFEE AND PEANUT ROASTER. MARK T. SEYMOUR, Stowe, N. Y. Filed June 5, 1920. Serial No. 386,788. 6 Claims. (Cl. 219—19.)



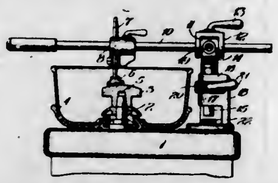
1. An electric roaster for coffee and similar articles comprising a stationary cylinder having a cylindrical non-combustible lining therefor, a second cylindrical lining of non-combustible cement around the interior of said cylinder and lining, an electrical cylindrical heating element embedded in said non-combustible cement around the interior of said cylinder to heat the same, and a roasting cage for coffee and similar articles rotatably mounted without said non-combustible cement lining of said stationary cylinder.

1,381,244. METAL CULVERT. LOUIS R. SHALLENBERGER, Pueblo, Colo. Filed Jan. 26, 1920. Serial No. 354,078. 5 Claims. (Cl. 137—75.)



5. The combination of a metal culvert having a cylindrical end-portion and a metal reinforcement fastened upon said portion, consisting of two bands respectively positioned at the edge of said portion and at a distance from said edge, and integrally connected by a web of reduced thickness with which they have a common bearing surface.

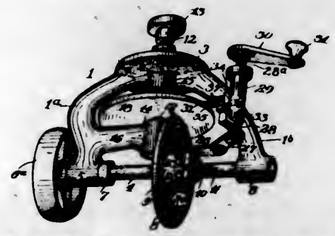
1,381,245. LENS-GRINDING MACHINE. LEON G. SIMPSON, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 30, 1918. Serial No. 264,848. 7 Claims. (Cl. 51—124.)



1. In a lens grinding machine, the combination of a grinding shell, a lens carrier coöperating therewith, a bracket adjustable concentrically with the axis of the grinding shell, and an overhanging arm adapted to carry the lens carriers and supported by said bracket.

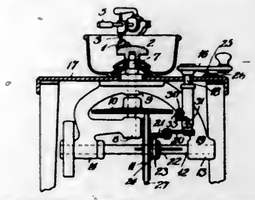
1,381,246. LENS-GRINDING MACHINE. LEON G. SIMPSON, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 1, 1919. Serial No. 274,515. 2 Claims. (Cl. 51—166.)

1. A supporting frame and power transmission device for a grinding machine comprising a flange at the top thereof for supporting the entire frame, a pair of oppositely disposed arms inclined outwardly and downwardly from said supporting flange, horizontal bearing bosses in the ends of said arms, a driving shaft journaled in said bearing bosses, a driving wheel fixed to said shaft between said bearing bosses, a vertical bearing boss supported from one of said arms above the horizontal shaft, a vertical shaft above said horizontal shaft journaled in the sup-



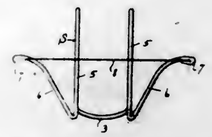
porting flange and the vertical bearing boss, a driven wheel fixed to said vertical shaft between said flange and vertical bearing boss and adapted to coöperate with said driving wheel, one of said wheels being slidably fixed to its shaft, and means supported by one of said arms for adjusting said slidable wheel to vary the speed of the vertical shaft.

1,381,247. LENS-GRINDING MACHINE. LEON G. SIMPSON, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 1, 1919. Serial No. 274,516. 5 Claims. (Cl. 51—109.)



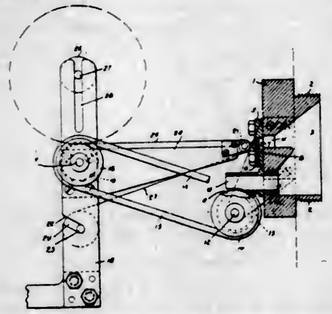
2. In a grinding machine, the combination of a work carrier, a tool coöperating therewith, a spindle on which the tool is carried, a wheel on the spindle, a countershaft, a wheel on the countershaft coöperating with said wheel to rotate the spindle, a shaft having an arm for moving the wheel on the countershaft to vary the speed of rotation of the spindle, and a brake member on said shaft for stopping the spindle.

1,381,248. SCRAPER. EDWARD R. STEVENS, Worcester, Mass. Filed May 5, 1920. Serial No. 379,035. 1 Claim. (Cl. 220—90.)



As an article of manufacture a scraper comprising a length of material bent adjacent its intermediate portion to provide spaced parallel arms, each of said arms having its intermediate portion extended back upon the arm in parallel relation thereto to provide a hook through the cooperation of the intermediate portion of said length, the end portion of the arm being extended outwardly and upwardly from the last mentioned portion of the arm, the end portion of each arm being disposed in divergent relation to each other, and means for connecting the extremity of said ends to each other.

1,381,249. AUTOMATIC TAKE-UP ATTACHMENT. WILLIAM E. STEWART, Providence, R. I., assignor to Revere Rubber Company, a Corporation of Rhode Island. Filed Sept. 22, 1920. Serial No. 411,905. 17 Claims. (Cl. 18—12.)

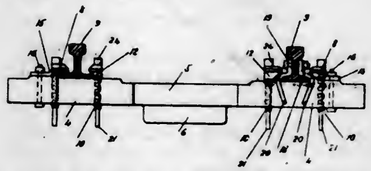


1. In combination, means for die forming a plastic material, and automatic means actuated by part of the extruded material for removing the remainder of said material as formed at a speed proportionate to its speed of issuance from the die opening.

1,381,250. POLISHING COMPOUND. HILDA SWANSON, Denver, Colo. Filed May 17, 1919. Serial No. 297,938. 4 Claims. (Cl. 87—5.)

2. A polishing cream formed of water, commercial naphtha soap, precipitated chalk, alkali bitartrate and bicarbonate of soda.

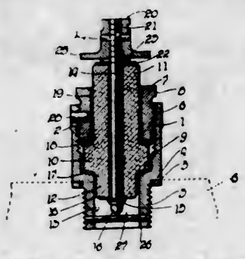
1,381,251. RAILWAY-TIE. LUKE W. SWEENEY, Terre Haute, Ind. Filed Sept. 4, 1920. Serial No. 408,192. 2 Claims. (Cl. 238—30.)



1. The combination, with a railroad tie provided with means for anchoring it to the ground to prevent it from sliding thereon, of rails supported by the tie, fish-plates secured to the rails and provided with stop lugs on their end portions which project downwardly on each side of the tie and limit the longitudinal sliding movements of the rails, the said lugs being spaced apart from the sides of the tie to permit the rails and fish-plates to slide longitudinally, and fastening devices which prevent the said fish-plates and rails from sliding laterally.

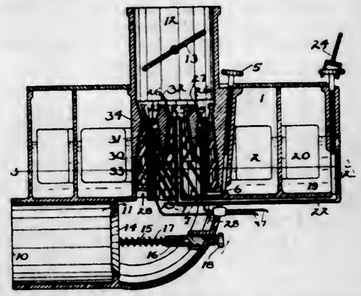
1,381,252. SPARK-PLUG. HERBERT THOMAS, Chicago, Ill., assignor to Eclipse Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 6, 1919. Serial No. 328,742. 1 Claim. (Cl. 123—169.)

In combination, a metallic shell having its lower end threaded to screw into the cylinder head or other similar part of the engine and having an internal shoulder, the interior surface being threaded above said shoulder, a body of insulation having an enlarged portion engaging said shoulder, a wrapping of insulating material about the body of insulation above the enlarged portion, a gland surrounding said wrapping of insulating material and threaded into the upper part of the shell engaging the enlarged part of the insulation and holding the same against the shell in the shoulder with a gas tight fit, a hole being drilled through the shell and through the gland just short of the wrapping, and a pin pressed into the hole and flush with the outer surface of the shell to hold the gland against loosening in the shell, whereby the gas tight fit between the body of insulation and the shell is



preserved and the proper setting of the electrodes is maintained.

1,381,253. KEROSENE-CARBURETER. HIRAM S. THOMASSON, Minneapolis, Minn. Filed Apr. 26, 1917. Serial No. 164,803. 6 Claims. (Cl. 261—18.)



1. In a carbureter the combination of a thin cylindrical shell having multiple helical fins on the inner wall thereof, a second thin cylindrical shell concentric with said first shell and forming with said first shell a nozzle having an annular opening, an outer casing concentrical with said cylindrical shells but spaced therefrom and having helical fins on the inner surface of opposite pitch to the fins of said inner cylindrical shell, and an air passageway inside and outside of the walls forming said nozzle.

1,381,254. SUPPORTER AND PROTECTOR. EDWARD J. THORP, New York, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Jan. 20, 1920. Serial No. 352,668. 1 Claim. (Cl. 128—160.)



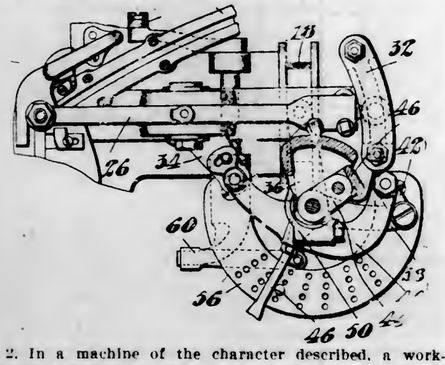
In combination with a supporter having an elastic waist-band, leg straps and jock strap sections of the same material as the waist band, a piece of non-elastic fabric stitched at its lower and side edges to the jock strap section, its upper edge being free and forming a pocket therewith, a pocket flap of non-elastic fabric stitched to the waist-band directly above the sections forming the pocket, means to engage the pocket flap detachably with the pocket and an auxiliary metallic jock-strap of similar outline to the jock strap section and pocket carried removably within the pocket.

1,381,255. SPRING. ABRAHAM TISMAN, New York, N. Y. Filed Jan. 28, 1920. Serial No. 354,555. 4 Claims. (Cl. 267—45.)



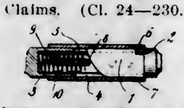
3. A spring construction of the class described comprising two spring sections, one of said spring sections being composed of a plurality of leaf members of different lengths and the other section being mounted on top of the first named section and composed of a plurality of leaf members of different lengths, the end portions of said last named section being provided with two upwardly directed spring loop members which form a central downwardly directed U-shaped portion adapted to bear upon the top of the first named spring section and the free end portions of said last named spring section being adapted to bear on the first named spring section.

1,381,256. SPACING MECHANISM. LAURENCE E. TORHAM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 23, 1918. Serial No. 251,109. 9 Claims. (Cl. 218—15.)



2. In a machine of the character described, a work-engaging feeding member, and means for imparting a feeding movement to said member comprising a power operated lever, a crank for oscillating the feeding member, a connecting link between the power operated lever and the crank, a floating fulcrum for an intermediate point in said connecting link, and means for altering the path of said floating fulcrum so as to vary the extent of feeding motion transmitted by said link.

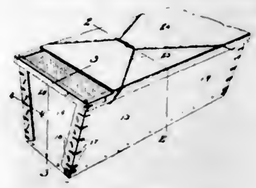
1,381,257. SEPARABLE FASTENER. ARNOLD H. TRAMER, Elizabeth, N. J., assignor of one-half to John Baur, New York, N. Y. Filed Dec. 31, 1920. Serial No. 434,178. 5 Claims. (Cl. 24—230.)



3. A separable fastener comprising a blade-like entering member having a notch in one edge, a tubular receiving member having a longitudinal entrance slot and having a part for engaging the notch of the entering member, a retractable guard-sleeve slidably mounted on the receiving member and a spring contained in the receiving member and acting on the sleeve to normally hold it in its extended position so as to cover the entrance slot.

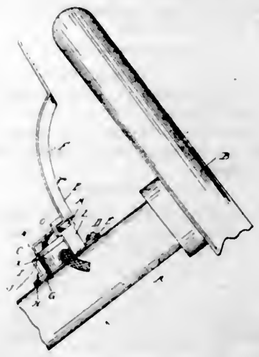
1,381,258. SHIPPING-BOX. GAINES M. WALKER, St. Louis, Mo. Filed June 28, 1920. Serial No. 392,219. 9 Claims. (Cl. 217—122.)

1. A shipping box having side and end walls, the end portions of the side walls being bent against the outer faces of the end walls, means for securing the bent end portions of the side walls to said end walls, and ductile



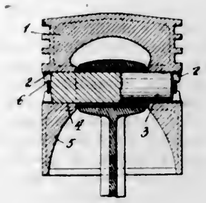
metal strips for securing the bent end portions of the side walls to the body portions of said side walls.

1,381,259. PUSH-BUTTON-OPERATING DEVICE FOR AUTOMOBILE STEERING-WHEELS. CHARLES W. WALTERS, Detroit, Mich. Filed July 14, 1919. Serial No. 310,845. 2 Claims. (Cl. 74—39.)



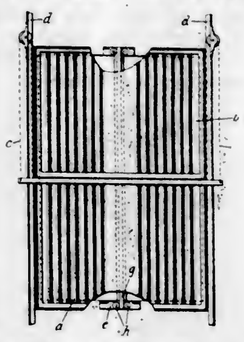
1. The combination with a steering wheel and a non-rotating stem therefor, of a push button mounted on the stem, a member positioned between the push button casing and the stem and provided with oppositely disposed projections, one of which has a pivot slot and the other of which has a guide slot, and a lever formed at one end to interlock with the pivot slot and arranged to play in the guide slot, the push button normally maintaining the lever at the outer limit of its throw and the outer extremity of the lever forming a hand hold in close proximity to the hand rim of the wheel.

1,381,260. PISTON-PIN LOCK. RALPH O. WATSON, Jersey City, N. J. Filed May 20, 1919. Serial No. 298,522. 6 Claims. (Cl. 74—108.)



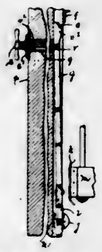
1. A piston structure, comprising in combination with a piston having a transverse opening and a piston pin in said opening, a retaining ring passing about the piston opposite the ends of the pin and having its outer surface located inwardly from the outer piston surface, and positive means holding the retaining ring in position away from contact with the cylinder wall.

1,381,261. ELEVATOR-DOOR. BENJAMIN WEXLER, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Filed Aug. 24, 1917. Serial No. 187,953. 7 Claims. (Cl. 189—46.)



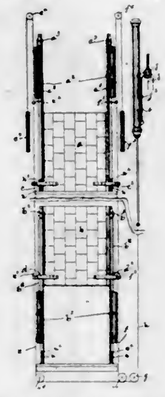
1. An elevator door embodying therein a vertically slidable door section comprising a metal frame having a metal sheathing within same, a fitting secured to the elevator shaft below the sill of the door opening, anti-friction rollers mounted and spaced apart in said fitting, a T-bar extending vertically between the horizontal bars of the frame of said door section, the flanges of said T-bar having a free running fit between said rollers, means projecting beyond said rollers between the flanges of said T-bar and the door, and supports carried by said fitting above said rollers, adapted to engage the top frame of said door section and sustain a load upon said door section when it is in the fully open position.

1,381,262. LOCKING MECHANISM FOR ELEVATOR-DOORS. BENJAMIN WEXLER, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,485. 6 Claims. (Cl. 187—59.)



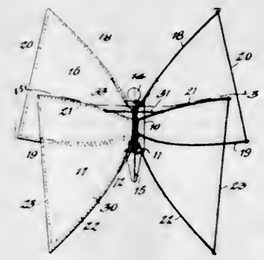
1. A locking mechanism for elevator doors, consisting of the combination with a plurality of door sections movable in opposite directions, the lower of which sections has a laterally extending hanger bar thereon, and a flexible connection between said hanger bar and the upper of said sections, of an oscillatory lever pivoted within an elevator shaft, adjacent the side of the door, means having a normal tendency to thrust said lever toward said hanger bar, coöperating means operative upon said lever and carried by an elevator car, whereby said lever may be withdrawn from its operative relation to said hanger bar, or permitted to assume its operative relation thereto, means operative upon said lever, and accessible from the floor side of the door, whereby said lever may be withdrawn from its operative relation to said hanger bar, and actuating means coöperating with said last named means.

1,381,263. LOCKING MECHANISM FOR AUTOMATIC ELEVATOR-DOORS. BENJAMIN WEXLER, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Filed Nov. 2, 1918. Serial No. 260,888. 4 Claims. (Cl. 187—59.)



1. A locking mechanism for automatic elevator doors embodying therein in combination with a sequence of upwardly sliding door panels, each having laterally extending projections adjacent the bottom thereof, weights adapted to normally raise each of said panels, and means for automatically closing said doors, including therein strips upon opposite sides of said doors, blocks thereon adapted to engage the top of the projections on each of said doors, and a motor controllable from within a car, adapted to exert a downward pull upon said strips of supplemental locking means adjacent the sill of the door opening closed by each of said panels, coöperating means forming a part of said supplemental locking means respectively, and carried by an elevator car, whereby any of said supplemental locking mechanisms is released when the car is at the door opening adjacent thereto, and means whereby each of said supplemental locking mechanisms is operative at all other times.

1,381,264. KITE. URQUHART WILCOX, Buffalo, N. Y. Filed Aug. 15, 1919. Serial No. 317,646. 9 Claims. (Cl. 244—23.)

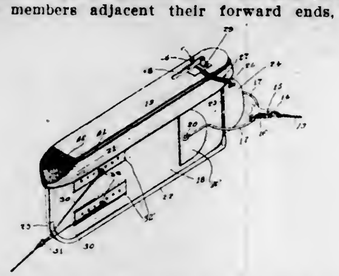


1. A kite comprising a body composed of two pivotally connected sections, and upper and lower sets of wings carried by said body, one of said sets of wings partially overlapping the other set of wings.

1,381,265. TRAWLING APPARATUS. JOHN J. ANDERSON, San Francisco, Calif. Filed Feb. 12, 1920. Serial No. 358,194. 5 Claims. (Cl. 43—9.)

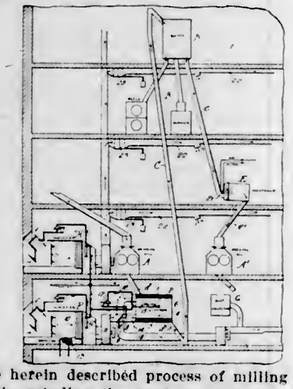
1. A trawling apparatus comprising in combination with a drawing member, a net, a buoyant trawling board or member connected with the same adjacent to its opposite ends of sufficient buoyancy to rise to the surface on the

net arriving at a point of rest, a line extended from the drawing member and for connection with said trawling boards or members adjacent their forward ends, and



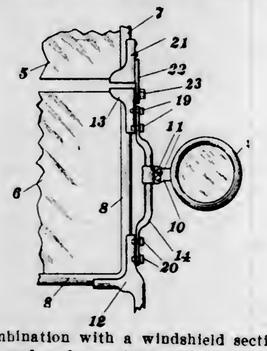
means for adjusting longitudinally of the boards or members the point of connection of said line with said boards or members to vary their path of travel through the water when drawn by said drawing member.

1,381,266. FLOUR-MILLING PROCESS. CHARLES WEBSTER ANDREWS, Buffalo, N. Y., assignor to Carrier Engineering Corporation, New York, N. Y. Filed Aug. 28, 1916. Serial No. 117,154. 5 Claims. (Cl. 83—42.)



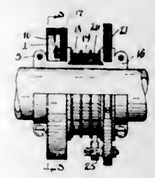
1. The herein described process of milling flour, which consists in grinding the stock, cooling the ground stock by subjecting the same to the action of humidified air having a temperature lower than the temperature of the room, and regulating the volume of the humidified air under the control of the temperature of the stock to cool the stock to a predetermined temperature.

1,381,267. WINDSHIELD-SPOTLIGHT SUPPORT. LUCIEN J. ANTOINE, Council Bluffs, Iowa. Filed Jan. 24, 1921. Serial No. 439,580. 2 Claims. (Cl. 248—20.)



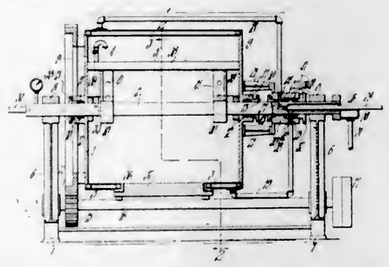
1. In combination with a windshield section composed of a glass, and a frame fitting about the edges of the glass, corner brackets secured to said windshield section, a bracket having an intermediate offset portion of substantially rounded and elongated construction lying approximately parallel with the vertical side member of the windshield frame section, said bracket provided with flattened ends secured against said corner braces, bolts engaging through said flattened ends and threaded in the corner braces, and a spot-light having a clamp adjustably secured on the intermediate portion of said bracket.

1,381,268. SIGNAL DEVICE FOR AUTOMOBILES. GINO BARDI, Cleveland, Ohio. Filed Jan. 10, 1918. Serial No. 211,280. 2 Claims. (Cl. 175—355.)



1. In a device of the character described, a propeller shaft or like part of a vehicle; a split sleeve clamped on said shaft so as to rotate therewith; a disk of insulating material and a plurality of contact rings non-rotatably mounted on said sleeve; a centrifugally actuated switch carried by said disk adapted to variously connect said rings; a second disk rotatably mounted on said sleeve; and brushes carried thereby arranged to contact with said rings, respectively, said brushes forming part of the circuit connections between said rings and an indicating means.

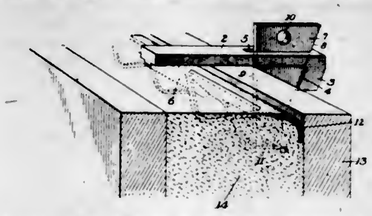
1,381,269. REFINING APPARATUS. GEORGE A. BAUSMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Original application filed Jan. 20, 1919, Serial No. 272,096. Divided and this application filed June 2, 1919. Serial No. 301,215. 5 Claims. (Cl. 257—100.)



2. An apparatus of the character indicated, comprising a stationary axial support, a container rotatably mounted upon said support and inclosing the same, a scraper for the interior surface of said container stationarily mounted upon said support in position to contact said surface, means for rotating said container, and means for maintaining a partial vacuum in said container.

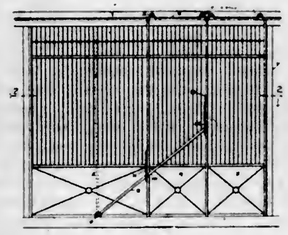
1,381,270. CLAMPING DEVICE. EDWARD L. BENEDICT, Pittsburgh, Pa., assignor to National Steel Fabric Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 3, 1920. Serial No. 386,253. 3 Claims. (Cl. 94—39.)

1. A clamping device of the character described, comprising a clamp bar having a heel member at one end, a slot therethrough adjacent to the heel member, a finger projecting obliquely inward from the opposite end portion of said bar and toward said heel member, and a wedge



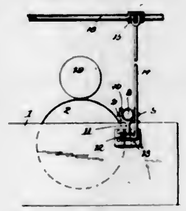
adapted to be inserted in said slot, substantially as described.

1,381,271. SLIDING-DOOR LOCK. HARRY BENSON, Alameda, Calif. Filed Dec. 24, 1919. Serial No. 347,203. 10 Claims. (Cl. 292—2.)



1. The combination with a door frame and a door therein, of means for locking the door against opening in partly closed and fully closed positions respectively, means for releasing said locking means, and means for preventing release of said locking means while the door is locked in partly closed position.

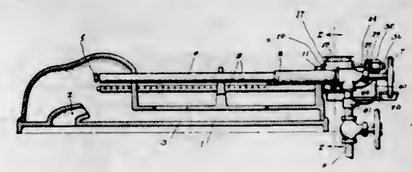
1,381,272. PAPER-MAKING MACHINE. CHARLES S. BIRD, East Walpole, Mass. Filed Jan. 10, 1919. Serial No. 270,515. 7 Claims. (Cl. 92—50.)



1. In a paper-making machine, the combination of a foraminous surface; means for moving the same; a spray pipe provided with a plurality of orifices located adjacent said surface and adapted to eject a cleansing fluid directly against the same, means for imparting endwise movement to said pipe; and means for constantly supplying water to the pipe.

1,381,273. BURNER ATTACHMENT. GEORGE N. BLANCHARD, San Francisco, Calif., assignor to Colmar Burner Co., Inc., San Francisco, Calif., a Corporation of California. Filed Apr. 21, 1920. Serial No. 375,440. 14 Claims. (Cl. 158—81.)

1. An apparatus for the described purpose, the same comrising an elongated tubular torch provided in its side wall with a line of burner perforations, a shell positioned adjacent to one end of the burner, a pipe coiled within the shell and connecting at one end with the interior of the torch at its rear end, a valve controlled chamber with which the opposite end of said pipe connects, a thermostat

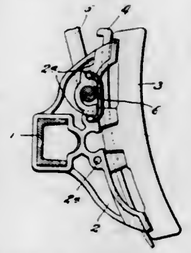


extended into said shell and adapted for operating the valve, a fuel feed pipe communicating with said chamber, and a burner associated with said shell.

1,381,274. COMPOSITION FOR PAINT. FRANK L. BUCHANAN, Oakland, Calif. Filed Mar. 20, 1920. Serial No. 367,457. 3 Claims. (Cl. 134—51.)

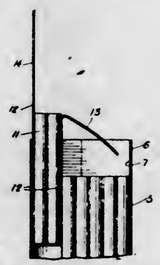
1. A paint composition comprising the following ingredients: a varnish, an oil, a thinner, specular hematite, limestone, granite, silica, iron pyrites, and talc.

1,381,275. BRAKE-BEAM-HANGER-LOCKING KEY. EDWIN G. BUSSE, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1919. Serial No. 302,242. 3 Claims. (Cl. 188—211.)



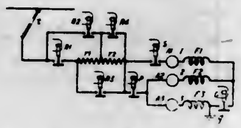
1. A brake head provided with two recesses adapted to receive the brake hanger, openings on each side of said recesses adapted to receive a brake hanger lock and a brake hanger lock adapted to fit in said openings to close either of said brake hanger recesses.

1,381,276. CIGARETTE-PACKAGE. ALFRED B. CADMUS, New York, N. Y. Filed Jan. 3, 1920. Serial No. 349,280. 4 Claims. (Cl. 206—56.)



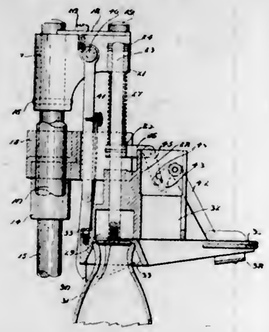
1. The combination with a cigarette container, of a flexible strip independent of the material of said container and adapted to be passed around a number of cigarettes in the container with one end portion of said strip projecting from the container when in its wrapped and sealed condition, whereby a pull on the protruding end of said strip will break the seal of said package and project the cigarettes through the opened end of the container.

1,381,277. CONTROL SYSTEM. ANDREW H. CANDEE, Pittsburgh, and HARVEY H. JOHNSTON, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1916. Serial No. 113,481. 5 Claims. (Cl. 172—179.)



2. In a system of control, the combination with a supply circuit and three motors initially connected in series-circuit relation thereto, of two switches for effecting a transition of said motors from series to parallel-circuit relation with substantially no decrease in the torque supplied by said motors.

1,381,278. BOTTLE-CAPPING AND WIRE-REMOVING MACHINE. ROLLAND J. CANTON, Lynn, Mass. Filed Feb. 19, 1920. Serial No. 350,967. 6 Claims. (Cl. 226—92.)



1. In a machine of the class described, the combination of bottle capping means, and means for removing a wire cup holding ring from the bottle simultaneously with the operation of the bottle capping means.

1,381,279. PIPE-HOLDING BAND. CHARLES N. CARLSON, Duluth, Minn. Filed Sept. 22, 1919. Serial No. 325,323. 2 Claims. (Cl. 285—186.)

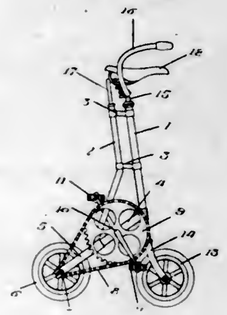


1. The combination with a pipe-holding band of the character described having inwardly protruding pegs thereupon, of a series of holes in said band equal in number to the pegs therein and spaced the same distance apart as the pegs, for the purpose described.

1,381,280. MANUFACTURE OF NAPHTHOLS. LEO F. CHEBOTAREF, Wappingers Falls, N. Y., assignor, by mesne assignments, to National Aniline & Chemical Company, Inc., a Corporation of New York. Filed Nov. 23, 1916. Serial No. 132,953. 6 Claims. (Cl. 23—24.)

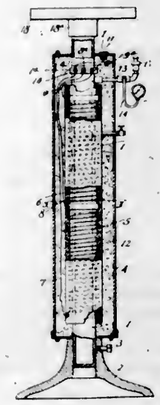
1. The process of making basic sodium naphtholate which consists in mixing fifteen parts of sodium salt of naphthalene-beta-sulfonic acid with eleven parts of caustic soda fusing at a temperature between 280 and 350° C., and removing the upper layer formed on prolonged heating.

1,381,281. BICYCLE. CHARLES HASKELL CLARK, New York, N. Y. Filed Dec. 4, 1919. Serial No. 342,379. 5 Claims. (Cl. 208—93.)



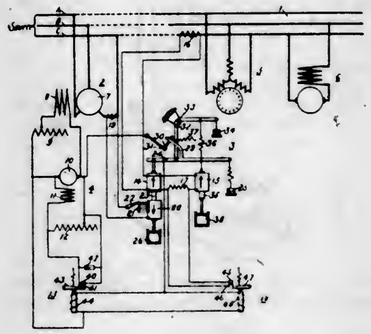
1. A bicycle comprising a permanent form rigid frame, two road wheels mounted therein, a shaft extending through said frame means for driving said shaft, a drive wheel mounted on said shaft, and means interposed between said drive wheel and one of said road wheels to drive the latter, the said shaft being located at the normal and usual distance from a horizontal plane touching the lowermost points of the road wheels, the axis of each road wheel being located at a point not substantially exceeding one half of the distance between said shaft and the nearest point on said plane, and the distance between the said shaft and the nearest point on said plane being substantially two-thirds of the distance between the axes of said road wheels.

1,381,282. HEATING APPARATUS. WARREN F. CLARK, Cleveland, Ohio, assignor to The Steam-Electric Products Company, a Corporation of Ohio. Filed Apr. 24, 1919. Serial No. 292,519. 5 Claims. (Cl. 219—38.)



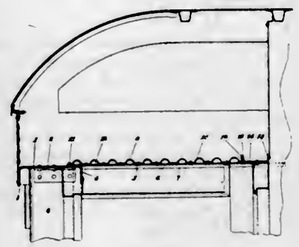
1. A device of the character described comprising a hollow cylindrical container, the cross-sectional area of which is small compared with its length, one end of such container being open and a coil of electric resistance wire wound upon the outside of such container and in contact therewith a pipe connecting with such container and a pressure responsive controlling device associated with such pipe.

1,381,283. ELECTRICAL REGULATING SYSTEM. ALMON W. COPLEY, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1918. Serial No. 211,730. 6 Claims. (Cl. 172—246.)



1. The combination with a source of alternating-current energy, a distribution circuit and a synchronous condenser interposed between said source and said circuit, of regulating means for automatically maintaining a substantially constant power factor at said source and controlled jointly by the current conditions of said synchronous condenser and said distribution circuit.

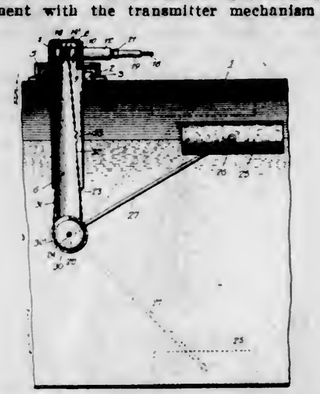
1,381,284. PASSENGER-CAR CONSTRUCTION. CHARLES S. COTTON, Crafton, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 23, 1920. Serial No. 376,020. 12 Claims. (Cl. 105—402.)



1. In a passenger car, side framing, a roof structure connected with said framing, and a horizontally disposed corrugated plate below said roof structure extending between and secured to said side framing.

1,381,285. LIQUID-LEVEL INDICATOR. CLAUDE E. COX, Detroit, Mich. Filed Mar. 24, 1919. Serial No. 284,668. 13 Claims. (Cl. 23—82.)

1. In an indicator of the character described, the combination of a panel-board assembly including a gage casing having an opening, a pointer, a flexible transmitter shaft connected to said pointer and of length to extend to a gasolene tank, and having a slip-coupler member on its remote end, a tank float assembly having a transmission part provided with a complemental slip coupler member, to receive the shaft-carried coupler, and a casing for the flexible shaft connecting the float and panel board assemblies, whereby the transmitter shaft may be slipped into the shaft casing through the gage casing and into engagement with the transmitter mechanism after the



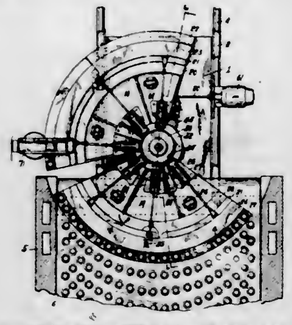
panel board and float assemblies and shaft casing have been placed in position.

1,381,286. COVERED METAL ROLL. JOHN J. CUNNINGHAM, Manchester, N. H. Filed July 8, 1920. Serial No. 394,765. 2 Claims. (Cl. 19—35.)



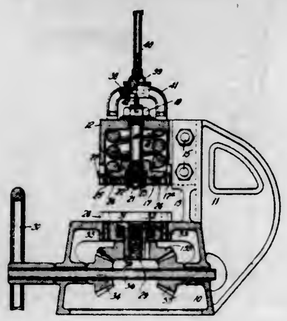
1. The combination of a metal roll, a covering layer for the roll periphery, and a wire binder encircling the covering layer and fastened under tension at its ends and at a point or points intermediate of its ends to the roll whereby the covering layer is securely held against the roll periphery and lifting or creeping of the covering layer is prevented.

1,381,287. ARTICLE-DELIVERY MECHANISM. FRED W. DANBERG, Toledo, Ohio. Filed Dec. 22, 1919. Serial No. 346,737. 65 Claims. (Cl. 193—1.)



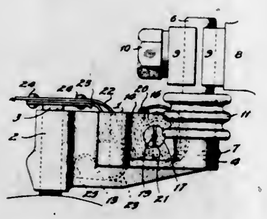
65. The combination with a leer having an opening in its receiving end, of an apparatus embodying a truck mounted for movements toward and away from the receiving end of the leer, a pair of article carrying members mounted on said truck for relative revoluble movements in a common plane about a common axis and having a portion of its movements into the leer through said opening, means carried by the truck for driving each member at one speed during a predetermined article receiving portion of its revolution and then at a greater speed to and a predetermined distance from article delivery position in the leer, and means operable to discharge articles from each member when in delivery position within the leer, said apparatus being movable into and out of operative relation to the leer.

1,381,288. MACHINE FOR TESTING THE HARDNESS OF MATERIALS. DONALD C. DAVIS, Buffalo, N. Y. Filed Mar. 4, 1918. Serial No. 220,166. 12 Claims. (Cl. 265—12.)



1. In a hardness testing machine, the combination of a rigid frame, a measuring element mounted on said frame and comprising a movable testing member, a spring member for resisting movement of said testing member, and a support for said members, a movable platen, and mechanism mounted on said frame independently of said measuring element support for moving said platen to press a sample against said testing member and straining said spring, said measuring element being stationarily but detachably mounted on the frame and removable as a unit therefrom.

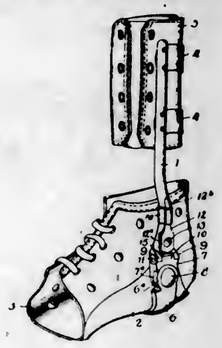
1,381,289. SPRING-TENSION MEANS FOR BRUSH-HOLDERS. JOHN S. DEAN, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 17, 1920. Serial No. 410,882. 5 Claims. (Cl. 171—324.)



1. A shaft mounting comprising a bearing element having a recess therein, a shaft mounted on said bearing and provided with a plurality of apertures arranged in different planes, the apertures disposed in one plane being staggered with respect to those of the other, and means disposed in said bearing recess for engagement with the apertures in said shaft for maintaining the same in adjusted position.

1,381,290. ORTHOPEDIC APPLIANCE. RICHARD A. DIADUL, Jr., Chicago, Ill. Filed Sept. 30, 1920. Serial No. 413,702. 9 Claims. (Cl. 128—80.)

1. In an orthopedic appliance or the like, the combination of two hinged together members, a locking member pivotally mounted on one of said hinged members, and adapted to be moved into and out of locking engagement



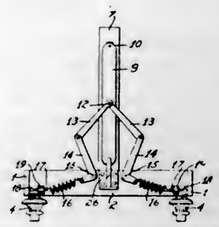
with the other hinged member, and means acting to frictionally retain said locking member in locked position.

1,381,291. FIREARM. CHARLES B. DYGERT, Ilion, N. Y., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 10, 1920. Serial No. 350,561. 5 Claims. (Cl. 42—3.)



1. In a firearm, the combination with a frame and a barrel, of a slide supported for reciprocating movements forwardly and rearwardly on the frame, said frame and barrel each having near the rearward end of the barrel interlock portions provided transversely with alined cross-bar seats, a barrel-and-frame uniting cross-bar disposed in said alined seats, and a slide-actuating spring bearing against said slide and against said barrel, the parts being so fitted that the reaction of said spring is supported entirely by said cross-bar, whereby it is frictionally held in place in said cross-bar seats.

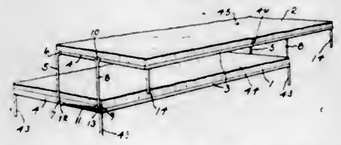
1,381,292. COUCH-BED. JOHN FREEMAN, New York, N. Y., assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y., a Corporation of Delaware. Filed May 14, 1919. Serial No. 297,056. 6 Claims. (Cl. 5—50.)



1. In a couch bed, a base, a reversible body adapted to be seated on the base with either side uppermost, double-

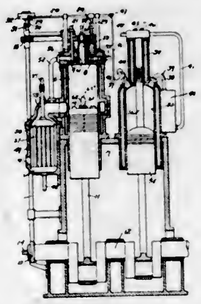
ended supporting members carried by the body at its respective ends to form moving fulcrums and vertically-movable pivot connections between the base and the body, and springs assisting in the elevation of the vertically-movable pivot connections during the movement of the fulcrums in one direction and opposing the fall of the vertically-movable pivot connections during the movement of the fulcrums in the other direction as the body is turned for reversing.

1,381,293. CONVERTIBLE FURNITURE. JOHN FREEMAN, New York, N. Y., assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 17, 1920. Serial No. 374,591. 7 Claims. (Cl. 5—50.)



1. In convertible furniture, a base section, a collapsible section adapted to be superimposed upon and opened out in juxtaposition to and in substantially the same plane with said base section, and pairs of bell crank levers connected to pivotal points on respective ends of said base and collapsible sections to guide said collapsible section, relative to said base section, in movements of parallel translation when the position of said collapsible section is changed, and a spring connected to said bell crank levers to assist the raising movement and to retard the falling movement during the change of position.

1,381,294. INTERNAL-COMBUSTION ENGINE. LOUIS O. FRENCH, Milwaukee, Wis. Filed July 14, 1919. Serial No. 310,841. 22 Claims. (Cl. 123—32.)



1. In an internal combustion engine, the combination of a working cylinder, means for supplying compressed air to said cylinder during a part of the working stroke, a chamber in communication with said cylinder, means for supplying fuel to said chamber, means for preventing the pressure of the contents of the cylinder rising above that of the entering air but permitting some air to pass into said chamber, and means for expelling the products of combustion from said cylinder.

1,381,295. PROCESS FOR THE MANUFACTURE OF METAL PYROPHOSPHATE CASEIN COMPOUNDS COLLOIDALLY SOLUBLE IN DILUTE ALKALINE SOLUTIONS. ALBERT FREY, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,465. 2 Claims. (Cl. 23—14.)

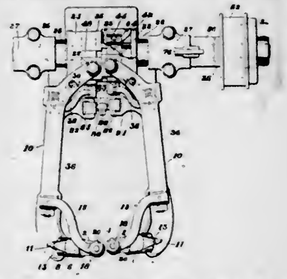
1. As a new article of manufacture the metal pyrophosphate casein compounds colloidally soluble in dilute alkaline solutions, which are entirely soluble in alkali; the solutions of this compound in sodium bicarbonate and diluted solutions of sodium carbonate are stable.

1,381,296. SHOW-CARDING PEN. HARVEY R. FULLER, Kirksville, Mo. Filed May 23, 1919. Serial No. 299,321. 2 Claims. (Cl. 120—111.)



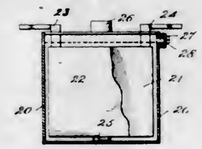
1. A pen of the class described having a reservoir comprising a front wall and a rear wall united at their lower edges by a perforated fold constituting a marking edge, the said front wall of the reservoir being provided with an opening spaced above the said marking edge and having an extension beside one wall to constitute means for attracting fluid from the reservoir by capillary attraction, the rear wall of the reservoir opposite said opening being rearwardly bulged.

1,381,297. MACHINE FOR OPERATING ON SHOE-SOLES. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 20, 1919. Serial No. 298,394. 21 Claims. (Cl. 12—33.)



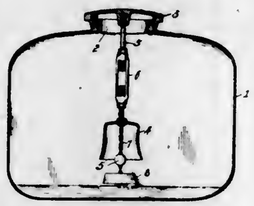
1. A machine for operating on the marginal portions of shoe soles having, in combination, two sets of pressing devices for engaging and pressing together the marginal portion of an outsole and a sole portion of a shoe attached to and projecting beyond the upper arranged to act simultaneously and progressively on opposite sides of the shoe as the shoe is fed past said devices.

1,381,298. ELECTRIC BATTERY. EDWIN R. GILL, Yonkers, N. Y. Filed Nov. 26, 1919. Serial No. 340,960. 23 Claims. (Cl. 204—29.)



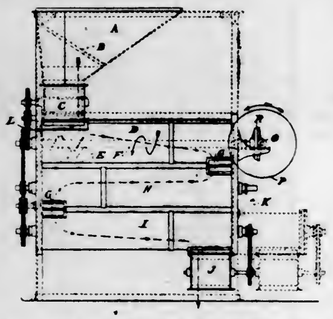
1. In an electric battery cell, a pair of active electrodes and a closed container therefor having a filling opening in one side thereof and an overflow opening near the top of another side thereof.

1,381,299. AUDIBLE LOW-LIQUID-LEVEL ALARM FOR TANKS. WILLIAM GRAH, Waterville, Ohio. Filed May 6, 1920. Serial No. 379,232. 4 Claims. (Cl. 116—110.)



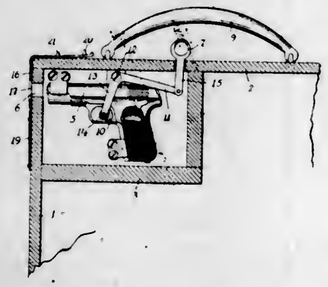
1. In a motor vehicle, a liquid containing tank, an audible alarm device associated therewith and including a bell with a swinging clapper, and a float suspended from the clapper for swinging movements therewith and adapted to coact with the clapper to prevent the sounding of an alarm except when the liquid is at or below a predetermined low level in the tank.

1,381,300. STERILIZING CEREALS, NUTS, SEEDS, AND THE LIKE. JAMES WILLIAM CLAUDE HAMILTON and EDWARD WILLIAM QUIRK, Liverpool, England. Filed Aug. 6, 1918. Serial No. 248,574. 3 Claims. (Cl. 99—9.)



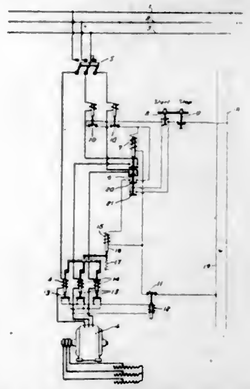
3. The process of sterilizing seeds, nuts and the like, so as to eliminate the weevils, which consists in passing the seeds through a long space in which they are thoroughly stirred and inverted, and which is filled with weak formaldehyde gases, then passing the seeds through a stronger formaldehyde mixture, while similarly stirred and inverted, and lastly passing them through a strong mixture of formaldehyde sufficient to kill the weevils.

1,381,301. MEANS OF DEFENSE. OSCAR V. HARGRAVE, Malden, Mass. Filed Aug. 23, 1920. Serial No. 405,505. 2 Claims. (Cl. 190—41.)



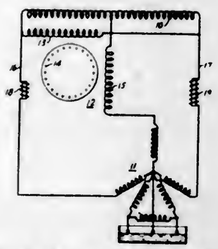
1. A suit case having a handle and a hole through one end of it, a box fixed within said suit case adjacent said hole, a pistol fastened within said box aiming toward said hole, a bell crank lever pivotally supported within said box and having a projection engaging the trigger of said pistol, and an operating member outside of the suit case beneath said handle connected with said lever for firing said pistol.

1,381,302. ELECTRICAL SYSTEM. ALBERT L. HARVEY and GEORGE W. HUEY, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 8, 1917. Serial No. 153,391. 13 Claims. (Cl. 175—294.)



1. In an electrical system, the combination with an electric circuit, of a controlling switch therefor, a relay having an actuating coil in said circuit and adapted to close to cause said switch to open under predetermined conditions, and means independent of said circuit for maintaining said relay open when said controlling switch is open.

1,381,303. PHASE-CONVERTING SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1917. Serial No. 178,549. 9 Claims. (Cl. 172—238.)

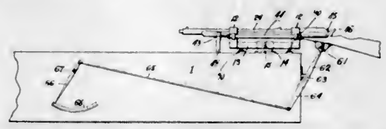


2. The method of improving the balance of the output electromotive forces of a phase-converter system wherein three-phase currents are derived from a single-phase source by a rotary phase-converter, one phase being derived directly from said source and being in phase therewith, which comprises producing unequal reactive drops in the two load phases which are out of phase with said source, the reactive drop in the phase immediately leading said source in phase exceeding that in the phase immediately following said source in phase.

1,381,304. APPARATUS FOR AIMING FIREARMS. RASMUS PEDERSEN HESTEHAVE, Hilleroed, near Copenhagen, Denmark, assignor to Oscar Ericsson, Copenhagen, Denmark. Filed Oct. 25, 1919. Serial No. 333,289. 1 Claim. (Cl. 124—15.5.)

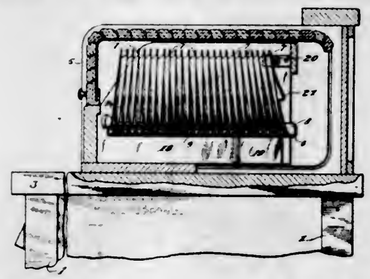
An apparatus of the character described comprising in combination a longitudinal casing, firearms aiming means

mounted on the same at one end thereof, and adapted to support a gun, a target device supported at the other end of said casing, means for operating said target device from the said firearms aiming means, striking means adapted to be operated by the said gun, a marker, means within said casing for operating the said marker by the said striking means to indicate the aim of the said



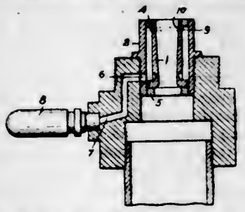
gun, means mounted on the side of said casing and adapted to coöperate with the trigger of the gun whereby the movements of the trigger may be observed when the gun is fired, supporting means for the said casing pivoting to the same at the one end thereof, other supporting means for said casing at the other end thereof and mechanism in said other supporting means for operating the said casing vertically and horizontally.

1,381,305. FILING APPLIANCE. HARRY JOSEPH HICK, Alliance, Ohio, assignor to The McCaskey Register Company, (Incorporated in 1914,) Alliance, Ohio, a Corporation of Ohio. Filed Aug. 27, 1917. Serial No. 188,409. 9 Claims. (Cl. 45—2.)



7. A filing appliance including a normally horizontal frame, a plurality of normally upright holders pivoted on the frame in rectangular arrangement, springs acting to rotate the holders rearwardly, an abutment for the rear end holder resisting the action of the springs, means permitting the frame to tilt on a transverse axis slightly forward of its median line whereby the holders rotate into rearwardly inclined echelon arrangement with reference to the frame, and a stop on the rear end holder for automatically engaging the abutment and holding the frame and holders in tilted echelon arrangement.

1,381,306. BLAST-NOZZLE. JOHN M. HOPWOOD, Dormont, and THOMAS A. PEEBLES, Pittsburgh, Pa., assignors to The Hagan Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1919. Serial No. 291,478. 6 Claims. (Cl. 299—107.)



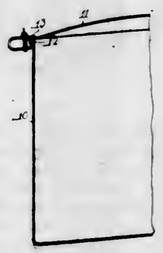
1. A fluid nozzle provided with a port for the escape of fluid from the nozzle in combination with a signal connected to said port, a movable member normally closing said port and adapted to be shifted to open said port by the fluid passing through the nozzle, and means for holding the member in normal position and adapted to be rendered ineffective by the cutting action of the fluid flowing through the nozzle.

1,381,307. INTERFOLDED PAPER PACKAGE AND PROCESS OF MANUFACTURING SAME. DAVID W. HUDSON, Green Bay, Wis. Filed Oct. 5, 1920. Serial No. 414,924. 2 Claims. (Cl. 206—57.)



1. The process of manufacturing packages of interfolded paper sheets, consisting in uniformly slitting paper strips along transverse lines to nearly sever the strip, while leaving narrow connecting tongues along one margin of each strip integrally connecting the sheets, and subsequently arranging the sheets in the respective series in break joint relation and folding the sheets of one series in one direction and those of the other series in the opposite direction, with each sheet embracing near its folding line the partially severed ends and connecting tongue of two sheets in the other series.

1,381,308. CLAMP. JOSEPH F. HUSA, Chicago, Ill. Filed Sept. 13, 1920. Serial No. 409,940. 3 Claims. (Cl. 292—258.)



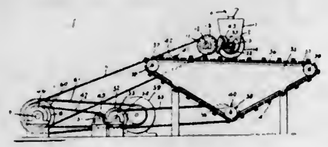
1. A clamp comprising a resilient U-shaped bar having an inwardly extending tooth formed at one of its ends and having its other end extended beyond the toothed end, and a screw mounted in the extended end portion of said bar.

1,381,309. CLOSURE FOR GRAVES. CHARLES J. JANSKY, Two Rivers, Wis. Filed Dec. 21, 1920. Serial No. 432,257. 3 Claims. (Cl. 27—30.)



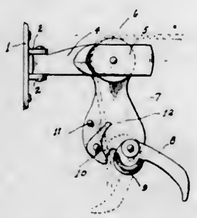
1. A closure for graves comprising a frame through which the coffin may be lowered, a curtain mounted at each end of the frame, means for drawing the curtains together to form a closure and means for retracting the curtains to uncover the grave.

1,381,310. CORE-MOLDING MACHINE. MICHAEL JANZUCK, Kokomo, Ind. Filed Oct. 4, 1920. Serial No. 414,535. 6 Claims. (Cl. 22—11.)



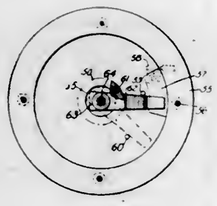
1. In a core molding device, a hopper adapted to contain products for forming cores, a mold connected with said hopper, means for forcing the contents of the hopper through the mold for forming a core, a rotatable off-bearing member for receiving the core from the mold, means for severing the core, a receptacle for receiving the cores, and means for rotating the oil-bearing member for depositing the core on the receiving member.

1,381,311. CLOTHESLINE-FASTENER. ALEXANDER JOHNSON and WILLIAM R. ANDERSON, Batavia, Ill. Filed Dec. 6, 1920. Serial No. 428,532. 1 Claim. (Cl. (24—134.)



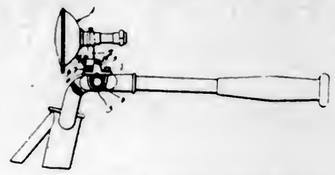
A clothes line holder comprising a bracket consisting of a base plate having vertically spaced ears projecting therefrom, a carrier pivoted at one end between said ears for movement in a horizontal plane and provided at its free end with a bearing arm spaced from its main portion and forming a reëntrant angle therewith, a guide pulley mounted in the space between the main portion of the carrier and the bearing arm, a hanger depending from the carrier, and line-clamping means on the hanger below the guide pulley.

1,381,312. CONTROL APPARATUS. HOWARD H. JOHNSTON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 9, 1916. Serial No. 136,031. 5 Claims. (Cl. 200—11.)



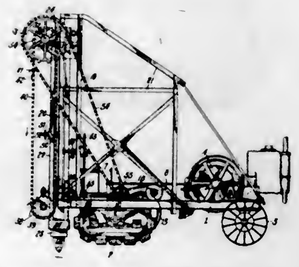
5. The combination with a control drum, of an insulating end-cap for said drum, a contact plate carried by said end-cap, and a control finger resiliently mounted upon the drum end surface to engage said contact plate under predetermined conditions.

1,381,313. MOUNTING FOR SPOTLIGHTS. WALLER L. KAUFMANN, Santa Ana, Calif. Filed July 26, 1920. Serial No. 399,133. 3 Claims. (Cl. 240—7.)



1. A mounting for spotlights comprising a horizontal base, means to secure the base to a support, an arm horizontally pivoted on the base to swing vertically and normally extended laterally and forwardly, a spotlight vertically journaled in the arm to swing horizontally, means frictionally clamping the spotlight on the arm in adjusted position, and means frictionally clamping the arm on the base in adjusted position, the arm being reversible to extend laterally and rearwardly and the base being extended rearwardly to limit the upward tilting of the spotlight when the arm is in reversed position.

1,381,314. CONCRETE-BREAKING MACHINE. LEO A. KRUPP, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a Corporation of Ohio. Filed Apr. 19, 1920. Serial No. 374,814. 6 Claims. (Cl. 37—50.)

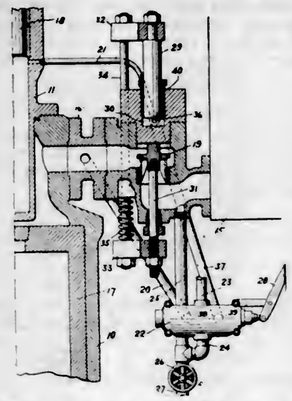


1. In a machine of the class described, a portable frame having a tower at one end, a carriage carried for horizontal adjustment by the tower and forming a vertical guide, a weight guided for movement by the carriage, an elevating chain associated with the carriage for movement therewith and having a length extending longitudinally of the carriage, said chain having a hook, means movably carried by the weight and adapted to be engaged by the chain hook to cause an elevation of the weight by the chain, and means automatically operable to release the hook engaging means from the hook to permit a dropping of the weight when elevated a predetermined height.

1,381,315. QUICK-RETURN SLACK-WATER SYSTEM. HENRI PIERRE LAURENT LAUSSUCQ, Camden, N. J., assignor to Heulings Lippincott and Alfred J. Major, as receivers of Camden Iron Works, Camden, N. J., a Corporation of New Jersey. Filed Sept. 23, 1918. Serial No. 255,308. 5 Claims. (Cl. 138—17.)

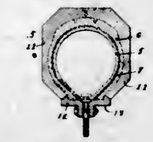
1. In a quick return slack water system, a main cylinder, a pull-back cylinder, a pilot cylinder, rams therein, a gravity filling tank, a passage connection between the gravity tank and main cylinder, accumulator pressure connections for the main cylinder, a check valve in the said passage, permitting free flow from the gravity tank to the main cylinder, a lifting rod for the check valve, operatively connected with the pilot ram, accumulator pressure connections to the pull-back cylinder and pilot cylinder and a control valve regulating the accumulator

connections for the main cylinder, pull-back and pilot cylinders and adapted to exhaust the main cylinder through



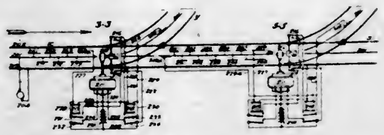
the valve when pressure is applied to the pull-back and pilot cylinders.

1,381,316. APPARATUS FOR MANUFACTURING PNEUMATIC-TIRE CASINGS. WILLIAM G. LERCH, Akron, Ohio, assignor to The India Tire & Rubber Company, Mogadore, Ohio, a Corporation of Ohio. Filed Oct. 23, 1920. Serial No. 419,178. 7 Claims. (Cl. 18—45.)



1. A protective sheath of the class described, comprising a plurality of sections of sheet metal adapted when placed in overlapping end to end abutment to form an annulus, each of said sections being arched laterally and longitudinally to conform to the interior surface of a pneumatic tire casing.

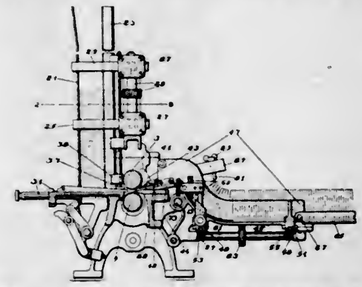
1,381,317. AUTOMATIC CARRIER. MATTHEW H. LOUGHRIDGE, Bogota, N. J. Filed Mar. 13, 1919. Serial No. 282,412. 82 Claims. (Cl. 104—88.)



1. In a railway system, a track having responsive means, cars running on said track, a device carried on said cars having a plurality of selective members, means on said track at intervals for operating said selective members separately and coöperatively whereby said device operates said responsive means.

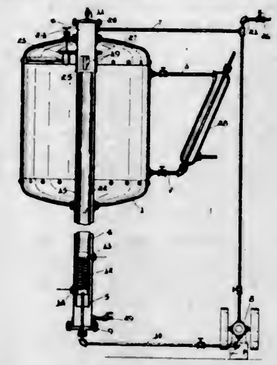
1,381,318. STACKING MECHANISM. THOMAS LUND, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 15, 1917. Serial No. 142,474. 21 Claims. (Cl. 271—87.)

4. A machine of the class described, having, in combination, means for operating successively upon a series of blanks, a chute, means for delivering the blanks one by one into said chute, and yielding means extending



through the walls of the chute into engagement with the edges of said blanks for forcing them along in said chute.

1,381,319. PROCESS AND APPARATUS FOR HYDROGENATING OILS. ARCHIBALD J. MACDOUGALL, Toronto, Ontario, Canada, assignor to National Electro Products, Limited, Toronto, Canada. Filed May 22, 1919. Serial No. 299,034. 6 Claims. (Cl. 87—12.)



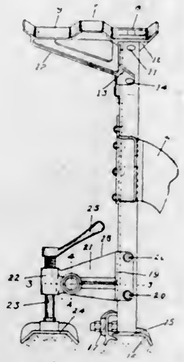
1. A process of hydrogenating oils which consists in circulating the oil mixed with a catalyst in upwardly and downwardly extending channels forming a circulating system, by introducing hydrogen into the lower part of the upflow side of the circulatory system, maintaining a suitable temperature and pressure during the reaction, regularly and automatically withdrawing small quantities of hydrogenated oil from the circulating system into the upper part of a storage reservoir and simultaneously introducing similar quantities of raw oil and catalyst into the circulating system from the same reservoir.

1,381,320. SWITCH. JOSEPH N. MAHONEY, Wilkinsburg, and GEORGE L. CHRISTMAN, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1918. Serial No. 215,391. 10 Claims. (Cl. 200—166.)



8. In a switch, the combination with relatively movable contact members, of means for biasing said members together in the closed position of the switch, and for rendering said biasing means ineffective during the operation of the switch.

1,381,321. DOUBLE-TIRE CARRIER AND LOCK. GURDON C. MATHER, Detroit, Mich. Filed Apr. 24, 1920. Serial No. 376,219. 4 Claims. (Cl. 224—29.)



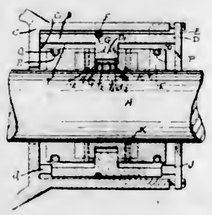
1. The combination with a base provided with double seated arms for engagement with a pair of mounted tire rims adapted to coöperate with an arm extending from the opposite side of said base and having a seat for engagement with one rim applied to the other arms, of a bracket extending from the latter arm, a longitudinally grooved stem screw threaded in the outer end portion of said bracket and provided with a clamp for engagement of another rim applied to the other arms, a spring-projected plunger longitudinally movable in the bracket and normally engaging the slot in the stem and preventing retraction of the stem when in locked position, and a lock in the bracket adapted to withhold the plunger from engagement with the stem.

1,381,322. ELECTRIC HEATER. WILLIAM MAYALL, Toronto, Ontario, Canada. Filed Nov. 1, 1919. Serial No. 334,997. 6 Claims. (Cl. 219—38.)



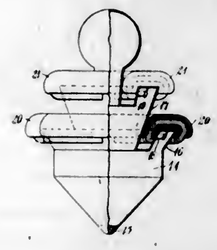
1. A tubular electric heater casing formed of an integral sheet of metal bent to tubular form and having a longitudinal fold therein forming an inwardly extending pocket open at its outer side and adapted to contain a heating element, the longitudinal edges of the sheet and the edges of the ends of the pocket being suitably secured together.

1,381,323. METALLIC WIPER. JOHN MELLOR, Jersey City, N. J. Filed Jan. 22, 1917. Serial No. 143,851. 5 Claims. (Cl. 286—27.)



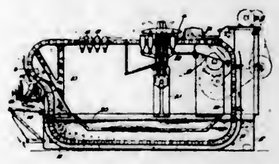
1. In a metallic wiper, the combination with a rod and stuffing box, of a casing arranged in fixed position within said stuffing box and surrounding but out of contact with the rod, said casing having an inward projection on its inner annular surface, and a ring within said casing extending between said projection and the rod and having its inner surface contacting with the rod and having on its outer surface a groove, the walls of which have a sliding contact with the walls of said projection.

1,381,324. INVERTED RECTIFIER. FRIEDRICH W. MEYER, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 20, 1914. Serial No. 846,365. 10 Claims. (Cl. 175—363.)



1. A device for converting direct current into pulsating current comprising means producing a direct-current arc, means for causing said arc to revolve about an axis, and a plurality of electrodes arranged to be engaged in succession by one end of said arc.

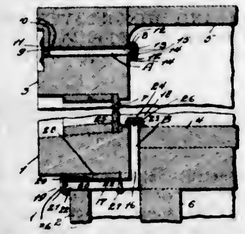
1,381,325. SOAKING AND WASHING MACHINE. GEORGE J. MEYER, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 19, 1918. Serial No. 250,598. 2 Claims. (Cl. 141—7.)



1. A bottle cleaning machine comprising a soaking tank, a conveyer for conducting bottles through said tank and returning above the tank with bottles in an inverted position, bottle washing and rinsing mechanism operating on the bottles on the return travel of the conveyer, said conveyer having a reverse bend at its descending end by which the bottles are discharged therefrom by gravity, means beneath the reverse bend of the conveyer and at the same end of the machine for feeding the bottles to the conveyer for their passage through said soaking tank, and means for guiding the conveyer.

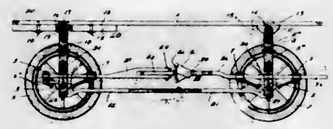
1,381,326. VENTILATOR FOR SHOW-WINDOWS. SAM MEYER, St. Louis, Mo. Filed Oct. 22, 1918. Serial No. 259,215. 3 Claims. (Cl. 98—31.)

3. The combination with a show window including a pane of glass and a frame therefor mounted in a wall, of an injector ventilator comprising a right-angled shell open at its ends adapted to be permanently mounted in the wall and located below and adjacent to and along the inner side of the sill of the window frame for directing the air inwardly and upwardly through said injector ventilator and along the glass of said window, an ejector ventilator comprising a straight rectangular shell open at its ends and adapted to be permanently mounted in the upper rail of said window frame in substantial vertical alinement with the injector ventilator, and means for controlling the passage of air through said injector and



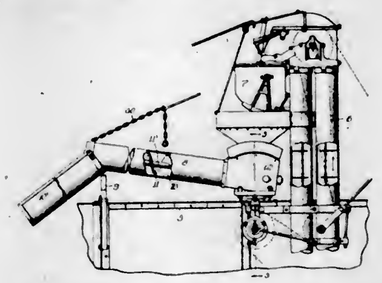
ejector ventilators, comprising a pair of independent slides fitted to the open ends of said ventilators and adapted to be independently adjusted to afford openings in the respective ventilators of the same or different areas and at the same or different positions in the respective ventilators.

1,381,327. TRAILER OR WAGON. FRANK S. W. MILLER, Syracuse, N. Y. Filed Apr. 17, 1920. Serial No. 374,529. 4 Claims. (Cl. 280—99.)



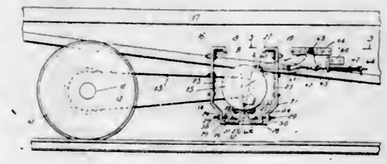
1. In a wagon, the combination of a body, a running gear comprising front and rear axles having means associated therewith on which the wheels are mounted, bolsters interposed between the axles and the body including upper and lower sections, the lower section of each bolster being pivotally connected to the upper section on an axis extending transversely of the body, and a reach connecting the axles, the reach including sections connected respectively to the axles, the sections being pivotally connected together on a horizontal transverse axis, substantially as and for the purpose described.

1,381,328. CONVEYER. PATRICK W. MORRISSEY, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed July 19, 1919. Serial No. 311,994. 5 Claims. (Cl. 193—16.)



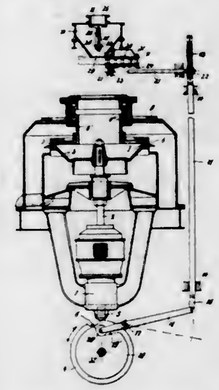
1. In a conveyer, a vertical shaft having a head thereon, a plate within which said head is loosely fitted, said head and plate forming a universal joint, a gear-wheel connected to said plate, and means for rotating said shaft to actuate said gear-wheel.

1,381,329. GENERATOR SUSPENSION. THOMAS L. MOUNT, Philadelphia, Pa. Filed June 19, 1918. Serial No. 240,823. 6 Claims. (Cl. 105—106.)



1. A dynamo suspension comprising in combination, depending members attached to the bottom of a car, pivot members attached to the base of the depending members, a dynamo above and connected to the pivot members, a belt for driving the dynamo from the car axle, a spring, and a connection between the dynamo and the spring arranged to cause an increased effect to be exerted on the dynamo to overcome the lessened effect of its weight upon the tension of the belt as the dynamo swings toward the car axle and to exert a decreased effect when the dynamo swings away from the car axle and its weight becomes effective in producing belt tension, whereby the tension in the belt may be maintained substantially constant with changes in position of the dynamo with respect to the car axle.

1,381,330. CENTRIFUGE. FRITZ PECHSTEIN, Wilmersdorf-Berlin, Germany, assignor to C. A. Fesca & Sohn, Berlin-Lichtenberg, Germany, a Firm. Filed Dec. 18, 1919. Serial No. 345,664. 5 Claims. (Cl. 233—21.)

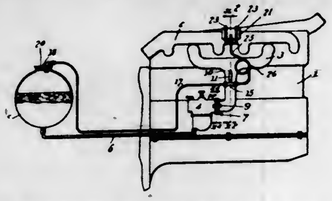


1. In a centrifuge, the combination of a centrifugal drum with a funnel above the latter, a slide controlling the inlet of such funnel, a slide controlling the outlet thereof, means for operating these slides so as to cover the outlet while uncovering the inlet, and vice versa, and means for automatically discharging the contents of the said drum, substantially as set forth.

1,381,331. FUEL-FEED SYSTEM. CHARLES POHL, Los Angeles, Calif., assignor to John O. King, Los Angeles, Calif. Filed Sept. 8, 1919. Serial No. 322,327. 9 Claims. (Cl. 123—119.)

1. A system of supplying a combustible mixture to an internal combustion engine, which includes the fuel supply tank, the main carbureter, the connecting fuel supply conduit and the intake manifold of the engine, a control valve communicating with the intake manifold, means cooperating with a heat radiating area of the engine to produce a supply of heated air, a conduit connecting said

means to the control valve and having an intermediate cooling element, and a second conduit connected to the



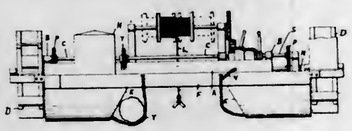
fuel supply tank above the liquid level and to the control valve for entraining fuel vapor to said valve.

1,381,332. SELF-FILLING FOUNTAIN-PEN. PAUL H. QUALMANN, Milwaukee, Wis. Filed June 1, 1920. Serial No. 385,445. 7 Claims. (Cl. 120—46.)



6. A self filling fountain pen comprising a cylindrical body portion, a collapsible ink tube mounted therein, an elongated U-shaped spring member having its arms initially bowed inwardly and positioned within said cylindrical body and upon opposite sides of said tube, plates mounted between said arms and said tube and carried by said arms, a cap secured upon the upper end of said cylindrical body and provided with a bayonet slot, a plunger mounted within said cap and having a pin adapted to travel within said bayonet slot, thereby temporarily locking said plunger in one position, said plunger being adapted to bear upon the yoke portion of said elongated U-shaped spring member and cause the approach of an intermediate portion of said spring arms, thereby causing said plates to collapse said ink tube.

1,381,333. APPARATUS FOR RAISING SUNKEN LOGS. ROY A. RANGER, Charlevoix, Mich. Filed Mar. 13, 1920. Serial No. 365,418. 4 Claims. (Cl. 114—49.)



1. In combination with a pair of lighter members, means for detachably uniting the same, a base timber having an operating shaft rotatably supported thereon, adapted for detachable connection with the lighters, a second shaft rotatably supported in parallel relation to said operating shaft, a power plant carried on one of the lighters, and disconnectible power-transmitting means whereby said shafts may be operatively connected with said power plant.

1,381,334. KNIFE-SHARPENER. JACOB RANZ, St. Louis, Mo. Filed Jan. 26, 1920. Serial No. 354,148. 1 Claim. (Cl. 76—84.)



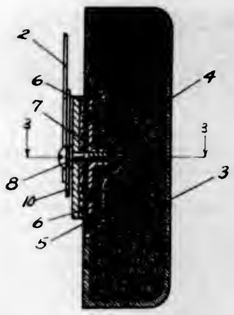
A knife sharpener comprising an elongated cylindrical body of metal, the surface of which is provided with a groove, the surface of said groove at one side being disposed substantially at right angles to the axis of the body of the implement to form a substantially right angled cutting edge, and the opposite side of said groove being curved upwardly to meet the surface of the body of the tool and form a rounded shoulder.

1,381,335. GATE AND HINGE-LATCH THEREFOR. CYRUS REED, Lebanon, Pa. Filed Nov. 20, 1920. Serial No. 425,491. 11 Claims. (Cl. 16—49.)



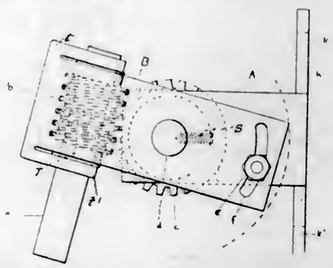
2. In a hinge construction, a support, a closure, hinge members carried by the closure, upper and lower hinge latches mounted on the support, each hinge latch comprising a hinge member supporting means, hinge member retaining arms mounted on the supporting means to retain the hinge member detachably and hingedly in place, means connecting the arms of the upper hinge latch with the arms of the lower hinge latch, whereby the arms of the upper and lower hinge latch may be operated together.

1,381,336. TRUSS. LOUIS REHTHALER, Battle Creek, Mich., assignor to Battle Creek Appliance Company, Ltd., Battle Creek, Mich. Filed Jan. 21, 1919. Serial 272,297. 1 Claim. (Cl. 128—117.)



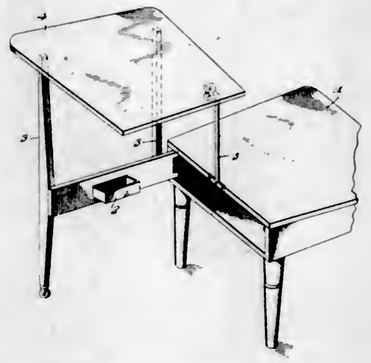
A truss pad consisting of a body portion of soft cellular rubber having an integral thing, flexible skin-like continuous covering, and an integral portion of solid rubber at the rear of substantial thickness with an attachment plate embedded therein.

1,381,337. WORM-GEARING. HENRY A. RIPPE, Salt Lake City, Utah. Filed Feb. 1, 1921. Serial No. 441,654. 4 Claims. (Cl. 74—36.)



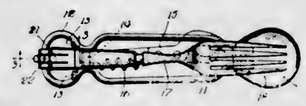
1. In an awning fixture, the combination of a supporting bracket; a winding shaft journaled therein; a worm wheel fast to said shaft; a frame mounted to swing about the axis of said shaft; means for clamping said frame to said bracket in different angular adjustments; a worm rotatably mounted in said frame and meshing with said worm wheel; and a connection for rotating said worm.

1,381,338. COMBINATION-CHAIR. YUBIE WILLIAM ROGERS, St. Louis, Mo. Filed Mar. 24, 1919, Serial No. 284,828. Renewed May 2, 1921. Serial No. 466,221. 1 Claim. (Cl. 155—43.)



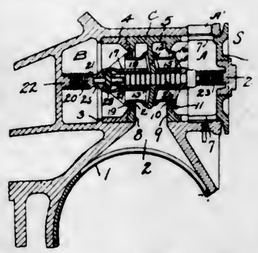
A combination chair comprising a seat, having a door leading into an inclosure beneath said seat, supports secured to said door, a back pivotally secured to said supports and suitable means for supporting said back when in a table top position, for the purpose described.

1,381,339. COMBINATION UTENSIL. FRED ROSEN, Chicago, Ill. Filed Nov. 21, 1918. Serial No. 263,469. 4 Claims. (Cl. 30—22.)



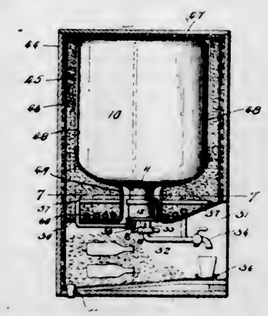
1. In a device of the class described, the combination of a handle formed from a metal rod folded into two side members substantially parallel with each other and each bent near the mid-portion of the folded rod to form a loop, a spoon bowl secured to the ends of the folded rod, and a reinforcing bar extending between the side members of the handle at the inner sides of said loops.

1,381,340. STEAM-ENGINE VALVE. SIEGFRIED ROSENZWEIG, New York, N. Y. Filed Nov. 17, 1919. Serial No. 338,478. 1 Claim. (Cl. 121—185.)



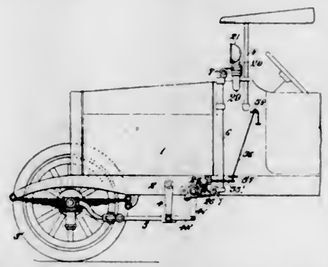
A puppet valve construction for steam locomotives including in combination with the steam chest, a valve cage consisting of a substantially inverted U-shaped member having intake and exhaust ports in the opposite wings thereof and also having a single intermediate wall provided with a right angularly disposed valve stem guide sleeve, a spring pressed valve having a tubular stem portion fitting over the exterior of the guide sleeve, a push rod arranged within the said guide sleeve and engaging with the said valve at one end while the opposite end projects beyond the opposite end of the guide sleeve, another spring pressed valve having a stem portion provided with an opening and also adapted to engage with the exterior of the sleeve guide at one side of the intermediate wall of the valve cage, and an operating rod adapted to move between the stem of the last mentioned valve and the push rod in the said sleeve.

1,381,341. BEVERAGE SHIPPING AND DISPENSING RECEPTACLE. DAVID O. ROYSTER, St. Louis, Mo. Filed Sept. 25, 1917. Serial No. 193,077. 8 Claims. (Cl. 225—40.)



1. In a beverage shipping and dispensing receptacle, a housing, a partition therein, which partition divides the space within the housing into upper and lower compartments, the same being connected by an opening, a wall arranged within the upper compartment to form a container chamber and an ice chamber, a container located in the container chamber and provided with a tubular extension which projects downward between the opening in the upper and lower chambers of the housing, means normally closing the mouth of the tubular neck, a tube leading from said closing means downwardly into the lower chamber within the housing, a valve near said tube, an air tube extending through the closing means, a portion of which tube is arranged in the lower portion of the ice chamber, and a valve in said air tube.

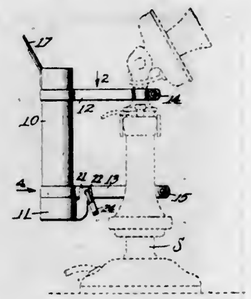
1,381,342. DIRIGIBLE SPOTLIGHT FOR MOTOR-VEHICLES. CHARLES S. SAKANASHI, San Mateo, Calif. Filed Dec. 13, 1920. Serial No. 430,229. 2 Claims. (Cl. 240—62.)



2. In combination with the steering mechanism of a motor vehicle, a dirigible lamp structure carried by the vehicle, a pair of flexible members extending from said lamp structure, a tubular guide through which said mem-

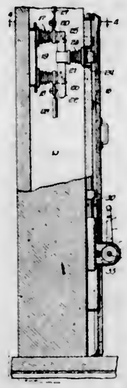
bers extend and within which the same operate, said members being disposed angularly from opposite ends of said tube, rollers at the opposite ends of said tube and over which said connections operate, means for normally forcing the centers of axial rotation of the rollers at opposite ends of the tube from each other to maintain said flexible members under tension, a clutch plate adjacent to the lower end of the tube and to opposite points on which said flexible members are secured, a sleeve mounting the plate, a clutch hub on said sleeve, a lever extended therefrom and connected with the vehicle steering gear, means for normally maintaining said clutch hub and plate in engaged relation, and means for releasing the clutch plate and hub to permit the manual operation of the lamp independently of the direction of steering of the vehicle.

1,381,343. TELEPHONE ATTACHMENT. LLOYD J. SAMPSON, Worcester, Mass. Filed July 14, 1919. Serial No. 310,659. 2 Claims. (Cl. 206—1.)



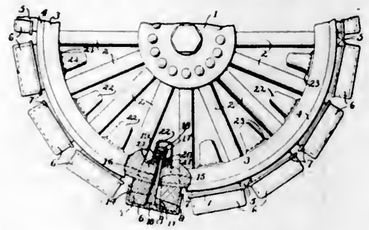
1. A telephone attachment having, in combination, a tubular coin receptacle, means to clamp said receptacle on a transmitter support of the desk type, said receptacle being entirely supported thereby and movable therewith and being spaced above the base of said transmitter support, a downwardly removable detachable closure for the lower end of said receptacle, means effective to prevent relative axial movement of said receptacle and closure when in operative position, and a lock effective to prevent relative angular movement of said parts.

1,381,344. DISCONNECTING-SWITCH. MAURICE M. SAMUELS and FERDINAND N. BECHOFF, New York, N. Y. Filed June 13, 1919. Serial No. 304,027. 4 Claims. (Cl. 200—48.)



1. In a disconnecting switch the combination of a pair of insulators, a contact clip supported by each insulator, a pair of switch blades located one upon either side of said contact clips, contact blocks extending between and secured to said blades for engaging said contact clips in the closed position of the switch, an insulator supporting said switch blades, a member supporting said last named insulator, rods secured to said member and located substantially parallel with said switch blades and mounted for longitudinal movement, and devices for moving said rods longitudinally to open or close said switch as desired.

1,381,345. PROTECTIVE COVERING FOR RUBBER TIRES. HENRY C. SANKEY, St. Louis, Mo. Filed Sept. 20, 1920. Serial No. 411,468. 1 Claim. (Cl. 152—4.)

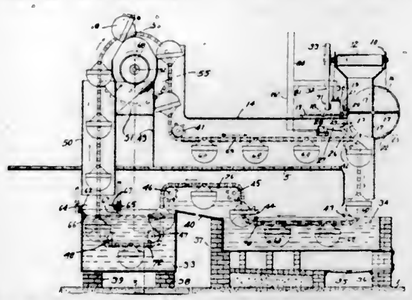


The combination with a wheel-felly, a metallic rim on said felly, rubber-blocks seated on said metallic rim, there being registering flaring passages in said rubber-blocks, felly and rim; of hollow protective metal caps seated on the treads of said rubber-blocks and having sockets located in alinement with said registering passages of said felly, rim and rubber-blocks; a long bolt having a rounded head at its outer end seated in the socket of each of said caps, and the body of said bolt extending through the said registering flaring passages and projecting a distance beyond the inner surface of said felly; a nut on the inner end of said bolt; a socket-bearing secured to the inner surface of said felly; a cup-shaped washer on said socket-bearing; a spring mounted on said bolt in the space between said cup-shaped washer and said nut; and a cover secured at its inner end to the said socket-bearing and inclosing the inner end of said bolt and all of the parts that are located on the inner portion of the latter.

1,381,346. SILICON CARBID AND METHOD OF MAKING SAME. HENRY ERIC SCHABACKER, Thoroid, Ontario, Canada, assignor to The Exolon Company, Boston, Mass., a Corporation of Massachusetts. Filed May 25, 1920. Serial No. 384,239. 7 Claims. (Cl. 204—62.)

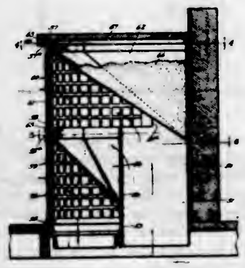
1. That step in the process of making a silicon carbid consisting in combining sand and pitch coke.

1,381,347. PROCESSING-MACHINE FOR FRUITS AND VEGETABLES. WILLIAM F. SCHALLER, San Francisco, Calif. Filed Mar. 13, 1920. Serial No. 365,386. 9 Claims. (Cl. 146—14.)



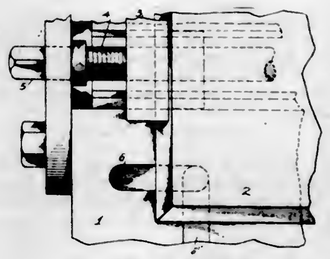
1. A fruit processing machine comprising the combination of a pair of liquid receptacles, a drain apron extending from one liquid receptacle to the other and a series of fruit holding baskets mounted to travel into one liquid receptacle, out of the same and into the other liquid receptacle, and to thereupon discharge their contents.

1,381,348. COMBINED HOT-AIR AND COLD-AIR REGISTER. ALBERT G. SCHERER, Chicago, Ill., assignor to The Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 23, 1918, Serial No. 259,357. Patent No. 1,329,802, dated Feb. 3, 1920. Divided and this application filed May 19, 1919. Serial No. 298,040½. 8 Claims. (Cl. 98—54.)



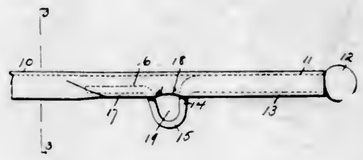
4. A register comprising a box-like structure the rear wall and portions of the side-walls whereof are each formed of two plates spaced apart to provide an intermediate air-space, a reticulated plate forming the front wall and remaining portions of said side-walls, a vertical plate connecting the outer portions of the double side-walls, a pyramidal deflector extending from said partition to said reticulated plate intermediate the top and bottom thereof, and a pyramidal deflector extending from the double rear wall to the top of said reticulated plate.

1,381,349. PRINTING-PLATE STARTER. LOUIS A. SCHMIDT, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Oct. 11, 1919. Serial No. 330,085. 3 Claims. (Cl. 101—378.)



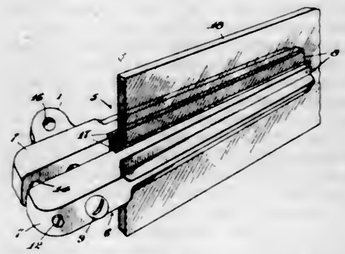
1. A plate carrying member having a plate supporting surface of greater dimensions than the plate supported thereby, and a recess or groove formed in the surface and extending outwardly beyond the edge of the plate when in position and inwardly under the edge of the plate, said groove or recess being proportioned to permit a tool to be inserted from beyond the edge of the plate in under the edge of the plate, the bottom of the groove or recess toward its inner end being formed to provide a fulcrum point for the tool.

1,381,350. UMBRELLA-RIB. PETER H. SEERY, Newark, N. J. Filed Oct. 28, 1919. Serial No. 333,891. 2 Claims. (Cl. 135—36.)



2. In an umbrella rib, a one-piece stem formed with a head on its outer end against which the end of the rib abuts, the stem being reduced in diameter at its inner end, the stem being formed into an open loop with the outer end of the loop situated at the juncture of the reduced portion with the main part of the stem, the reduced part beyond the loop being offset so that its outer edge is in line with the outer edge of the main part of the stem.

1,381,351. CLAMP. ROLLA C. SHAW and FLOYD C. SKADAN, Los Angeles, Calif.; said Skadan assignor to said Shaw. Filed Jan. 14, 1920. Serial No. 351,505. 1 Claim. (Cl. 144—297.)

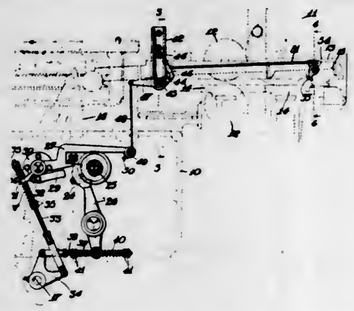


A clamp comprising a pair of jaw members each of which is formed with a block-like body portion having an elongated extension projecting in continuation of said body portion; a set screw threaded through the body portion of one of said jaw members to project into a recess on the inner face of the other jaw member, to act as an adjustable fulcrum, a tightening screw disposed intermediate of said set screw and the outer ends of said extension and passing loosely through the body portion carrying the set screw and threaded into the other body portion, said tightening screw having a head arranged to bear on the outer face of the jaw member through which it passes to engage the latter, and yieldable strips secured to the inner face of the extensions of said jaw members.

1,381,352. WORK-FEED-TRIPPING MEANS. WILLIS S. SHERMAN, Milwaukee, Wis. Filed Oct. 24, 1917. Serial No. 198,310. 15 Claims. (Cl. 192—116.)

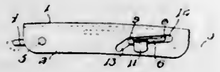
9. In a work feeding means having a definite cycle of operation, a clutch for connecting the driving parts with the driven parts thereof, a means for operating the

clutch, and a pair of triggers for controlling the operating means and adapted to be engaged and moved jointly



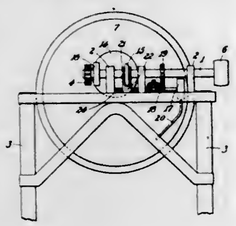
by the work in order to operate the clutch to start the work feeding means.

1,381,353. BELT-BUCKLE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed July 15, 1920. Serial No. 396,541. 4 Claims. (Cl. 24—194.)



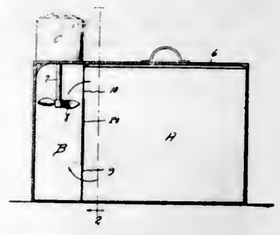
1. A belt buckle comprising a frame having a clamping surface, a clamping member having a slot through which the belt end is passed in order to pass between said clamping member and the clamping surface, and means for supporting said clamping member for movement over said clamping surface to cause a portion of the clamping member on one side of the slot to move toward and from the clamping surface of the frame, and for holding a portion of the clamping member on the other side of the slot close to the surface when the member is shifted to carry the clamping portion thereof away from the clamping surface so as to prevent the belt end being passed under the clamping member without being passed through the slot in the clamping member.

1,381,354. REGULATING AND CONTROLLING THE TRANSMISSION OF POWER. PAUL SHISHKOFF, Richmond, England. Filed July 2, 1920. Serial No. 393,685. 7 Claims. (Cl. 74—6.)



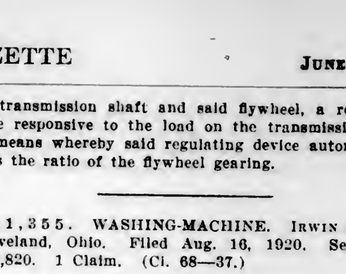
1. Mechanism for controlling and regulating the transmission of power comprising in combination a motor, a transmission shaft driven thereby, a free-wheel clutch interposed between said motor and said transmission shaft, a geared flywheel serving to accumulate and discharge energy, a variable ratio gear interposed between said transmission shaft and said flywheel, a regulating device responsive to the load on the transmission shaft and means whereby said regulating device automatically varies the ratio of the flywheel gearing.

1,381,355. WASHING-MACHINE. IRWIN SIEBERT, Cleveland, Ohio. Filed Aug. 16, 1920. Serial No. 403,820. 1 Claim. (Cl. 68—37.)



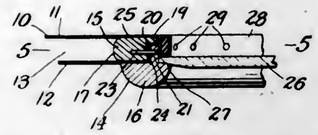
A washing machine comprising a single casing, a single partition wall set in the case and extending across the same, and dividing the same into two compartments one of which is adapted to receive clothes, said partition having upper and lower screened openings between the compartments, and a propeller working in the other compartment and adapted to cause continuous circulation of water in one direction through the two compartments.

1,381,356. TERMINAL FOR ELECTROLYTIC CONDENSERS. JOSEPH SLEPIAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,124. 9 Claims. (Cl. 175—317.)



4. In a condenser, rectifier, lightning arrester or the like, the combination with a container, an electrolyte therein and an electrode terminal projecting from the electrolyte, of means for establishing substantially zero potential between the terminal and the adjacent portion of the electrolyte.

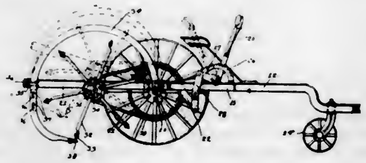
1,381,357. WINDOW-FRAME FOR AUTOMOBILE-HOODS AND THE LIKE. JOSEPH SOSS, New York, N. Y. Filed Nov. 24, 1919. Serial No. 340,283. 3 Claims. (Cl. 296—145.)



1. A window frame for use in connection with hoods, curtains or the like composed of separate members, said

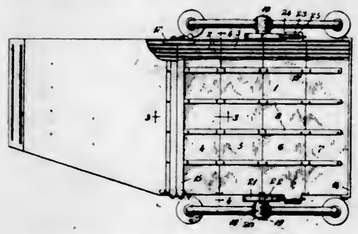
frame consisting of inner and outer parts, the outer part being provided at intervals with a plurality of inwardly projecting ears adapted to operate in recesses in the inner part, the separate members of the hood being mounted between the separate parts of the frame, means passed transversely through said ears and said hood and into the inner part for securing the separate parts of the frame together and for securing the separate members of the hood therebetween, a transparent panel adapted to be mounted in the frame, and a flexible strip secured to the inner part of the frame at spaced intervals by attaching devices which pass through the separate members of the hood, said strip serving to secure the transparent panel and the separate members of the hood in said frame against displacement.

1,381,358. WEED-CUTTER. JOHN M. SPARKS, Washtucna, Wash. Filed Dec. 4, 1920. Serial No. 428,299. 4 Claims. (Cl. 55—85.)



2. In a weed cutter, a wheel-supported shaft, a main frame having its rear end secured to said shaft, an auxiliary frame pivotally mounted upon said main frame and embodying a cross bar extending beneath said main frame, a transverse shaft mounted upon said main frame, means for adjustably positioning said shaft, arms carried by said shaft, a link connection between said arms and said cross bar whereby said cross bar is vertically positioned by the adjustment of said shaft.

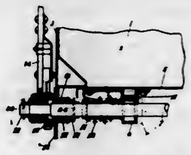
1,381,359. MATRIX-RECEPTACLE. ASHTON G. STEVENSON, Chicago, Ill. Filed Apr. 27, 1920. Serial No. 377,129. 10 Claims. (Cl. 211—42.)



3. In a device of the character described, a receptacle comprising a plurality of blocks, means for securing the blocks together, each block comprising a plurality of sections, means for securing said sections together, the corresponding inner faces of said sections having channels therein forming ways for matrices, and means for normally preventing matrices from falling through one end of said receptacle.

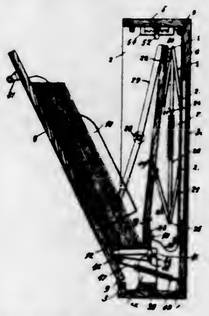
1,381,360. WASHER AND SHAFT. SWAN R. STROM, Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,972. 7 Claims. (Cl. 105—286.)

7. In a dump car, a discharge door operating mechanism, a shaft forming part of said mechanism, said shaft having an opening formed therein, a washer mounted on said shaft adapted to engage portions of said car, said washer having a plurality of transverse openings formed therein spaced apart longitudinally, and each adapted



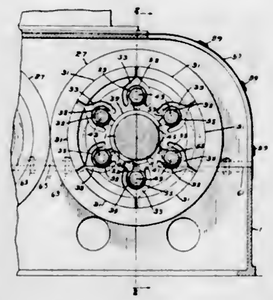
to register with the opening in said shaft for longitudinal adjustment of said washer and shaft relative to each other.

1,381,361. FILING-CABINET. CASPAR STUDER, Winterthur, Switzerland. Filed Feb. 26, 1920. Serial No. 361,566. 4 Claims. (Cl. 45—2.)



1. In a filing cabinet for unperforated letters, drawings and the like, including a forwardly tiltable door serving as receptacle for the filed objects, the feature that the file contents are acted on by a pressure plate composed of at least two hingedly inter-connected leaves or sections, said pressure plate being supported below by a floor plate hingedly connected in front to said tiltable door, the upper section of said pressure plate on opening of the door being withheld from further contact with the file contents and its lower section held pressed against the contents and toward said hinged floor plate by the intermediary of a spring influenced link and drawrod-mechanism.

1,381,362. CRUSHING-ROLL MACHINE. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Feb. 13, 1917, Serial No. 148,407. Divided and this application filed June 30, 1919. Serial No. 307,547. 9 Claims. (Cl. 287—52.)



1. The combination of a shaft, an annular member, an expansible member interposed between said shaft and an-

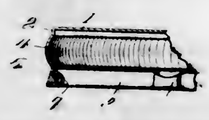
nular member and comprising sections having spaces between them, and reversely bent flexible webs connecting said sections to allow expansion of said sections into secure gripping relation with said shaft and annular member.

1,381,363. COVER FOR JARS. THOMAS LUCIEN TALIAFERRO, Chicago, Ill., assignor to Phoenix-Hermetic Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 19, 1918. Serial No. 263,149. 6 Claims. (Cl. 215—38.)



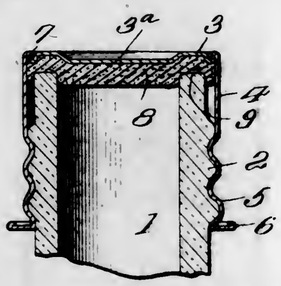
1. A metal jar cover comprising a top section and a depending flange, said flange having inset portions at a distance above the lower edge of the flange for forming a relatively broad gripping contact with the jar walls throughout a greater portion of its circular extent, said inset portions being spaced sufficiently to permit the metal in each portion to bend or reshape itself independently of the other portions, so that the gripping surface of the cover may conform to irregularities in the surface or contour of the jar.

1,381,364. JAR-CLOSURE. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed July 8, 1920. Serial No. 394,633. 4 Claims. (Cl. 215—44.)



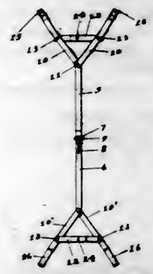
4. A jar closure comprising a top portion having a depending flange, said flange being rolled inwardly and flattened to strengthen the lower edge of the flange, said flange within the limits of the strengthened inturned edge being horizontally indented to provide spaced holding lugs, with the metal forming the portion of the lug adapted to hold the closure on the jar extending in a direction substantially parallel with the flange.

1,381,365. BOTTLE-CAP AND METHOD OF SEALING BOTTLES. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed July 8, 1920. Serial No. 394,634. 3 Claims. (Cl. 215—43.)



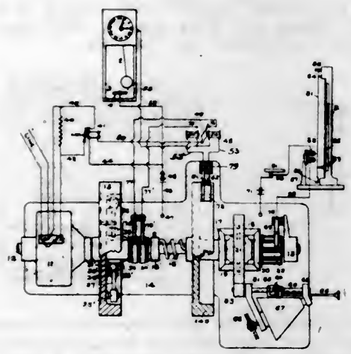
1. A bottle cap consisting of a top portion and a depending flange, a plastic gasket located in said cap adjacent said top portion and adapted to soften by heat at a relatively low temperature whereby said gasket may be reshaped through a bending of the metal of the cap, said cap being so constructed whereby the same may be reshaped so as to force the gasket when softened into more intimate sealing contact with the bottle and the cap after said cap is placed on the bottle.

1,381,366. TIRE-CARRIER. HAROLD V. TEETER, Kalamazoo, Mich. Filed Sept. 22, 1919. Serial No. 325,463. 3 Claims. (Cl. 224—29.)



3. In a tire carrier, the combination of a hanger bar, and pairs of arms pivotally mounted on said bar the arms of each pair being connected by collapsible stretchers so that they may be supported in an extended relation or collapsed side by side, said pairs of arms terminating in pairs of oppositely facing hooks, the hooks of one pair of arms being engageable over a tire and the other constituting rests for another tire.

1,381,367. SYNCHROROTOR. EDWARD G. THOMAS, Springfield, Ill. Filed June 12, 1916, Serial No. 103,208. Renewed Aug. 28, 1918. Serial No. 251,837. 17 Claims. (Cl. 58—25.)

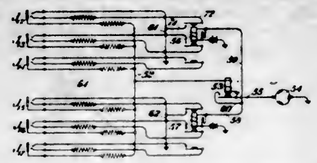


1. In a synchrorotor the combination of a rotatively supported member, a spring of which one end is fastened to said member, and means for causing rotation of the other end of said spring at one or the other of two predetermined speeds, and mechanism for periodically selecting one or the other speed of rotation.

1,381,368. BUSY BACK CIRCUITS. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 1, 1919. Serial No. 286,660. 8 Claims. (Cl. 179—50.)

4. A busy back circuit including a plurality of jacks, conductors associated with the ring contacts of said jacks,

means responsive upon the association of a trunk circuit with one of said jacks for applying ground to all of said



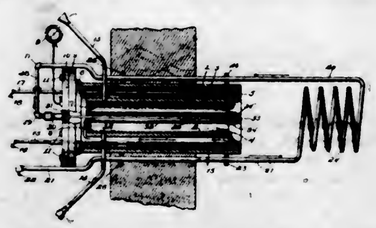
ring conductors, and means individual to said ring conductors for disconnecting said ground.

1,381,369. STOVE-TOP. WILLIAM PATRICK TRAINOR, Bristol, Va. Filed Oct. 7, 1920. Serial No. 415,281. 1 Claim. (Cl. 126—211.)



The combination with a stove top having an elongated rectangular opening over the fire-box, surrounded by ledges, a rectangular flat faced plate fitted in the opening and provided between its upper and lower faces with a continuous supporting rib resting on said ledges and permitting said plate to be removed and reversed, said plate being also provided with a central circular hole, the wall of which is of V-shaped cross-section to provide inwardly beveled seats for the usual lid.

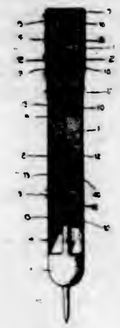
1,381,370. BURNER FOR PETROLEUM OR SIMILAR FUELS. JOSÉ VELASQUES, Cárdenas, Cuba. Filed Sept. 23, 1919. Serial No. 325,621. 1 Claim. (Cl. 158—73.)



A burner for petroleum or similar fuels, comprising an outer cylinder for arrangement through the wall of the furnace and closed at the outer end of the furnace, an inner cylinder in said outer cylinder, connected at its inner end to the outer cylinder and having a closed outer end within the outer cylinder, inlet tubes for air at different points of the periphery of the inner cylinder and near its outer closed end, petroleum supplying means arranged at the space between the cylinders, a tube arranged longitudinally in the inner cylinder and opening through the closed outer end thereof, said tube having at its inner end a nozzle and a tip in said nozzle provided with jet openings, and a tube arranged in the first named tube and discharging through the tip, and steam superheating means included in the last named tube.

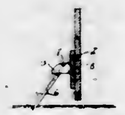
1,381,371. RAILWAY SIGNAL-FUSEE. FREDERIC L. WANKLYN, Montreal, Quebec, Canada. Filed Sept. 1, 1920. Serial No. 407,558. 5 Claims. (Cl. 102—24.)

4. A railway signal fusee consisting of a tubular container divided longitudinally throughout its length into two chambers and having one end closed, a light producing element within one of said chambers and completely filling the same, a series of smoke producing elements located within the other of said chambers and uniformly spaced apart throughout the length of the same, a non-inflammable substance filling each of the spaces between the smoke producing elements, an ignition device effecting



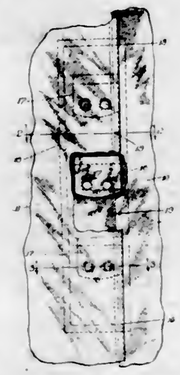
communication between each of said smoke producing elements and the light producing element whereby the smoke producing elements are ignited as the light producing element burns, and a cap protecting one end of said fusee.

1,381,372. DOOR-CATCH. EDWIN F. WANOUS, Minneapolis, Minn. Filed Aug. 19, 1920. Serial No. 404,615. 3 Claims. (Cl. 292—338.)



1. A door catch comprising a bracket and a catch pin swiveled thereon, said bracket having an outstanding lug with a seat in which the free end portion of said pin is adapted to rest to hold the same out of action.

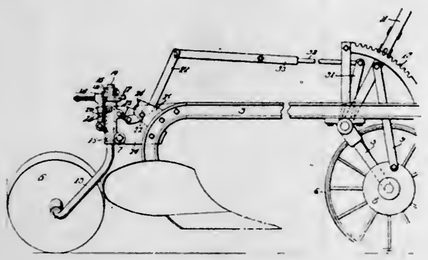
1,381,373. VENTILATED GARMENT. ABRAHAM WATERMAN, Chicago, Ill., assignor of one-half to David Waterman, Chicago, Ill. Filed May 19, 1920. Serial No. 382,624. 5 Claims. (Cl. 2—65.)



1. A ventilated garment seam comprising in combination, a pair of adjacent water-proof garment pieces, an apertured otherwise-water-proof fabric section secured around its margin to the back faces of said pieces, and a flexible water-proof unperforated valve covering said

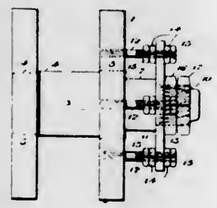
aperture and secured along a portion only of its margin to the front of said section, whereby the movements of the wearer of the garment intermittently effect the opening of said aperture.

1,381,374. WHEEL-ADJUSTING MECHANISM FOR AGRICULTURAL IMPLEMENTS. LEWIS E. WATERMAN, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed June 9, 1919. Serial No. 302,662. 8 Claims. (Cl. 97—36.)



1. In a plow, the combination of a plow frame, supporting wheels therefor including a rear furrow wheel, power operated mechanism for raising the front end of the frame, adjusting means for varying the working depth of the plow body and consequently the height to which the frame is raised by said power operated means, a connection between the power operated means and the rear furrow wheel for raising the rear end of the frame, and means for limiting the frame-elevating movement of the rear furrow wheel, said connection including means permitting the forward end of the frame to be elevated after the rear end had been stopped by said limiting means.

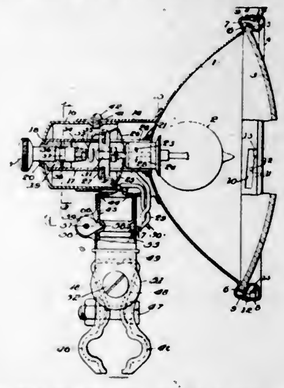
1,381,375. ENGINE-CROSSHEAD. GEORGE F. WEIR, Elkhart, Ind. Filed July 19, 1920. Serial No. 397,358. 2 Claims. (Cl. 74—84.)



1. The combination with a crosshead, of a crosshead pin having an extension at one end, the outer end of which is screw-threaded forming a shoulder between the main portion of the extension and the screw-thread, studs projecting from the cross-head, a pressure collar having orifices to receive the threaded end of the extension and the several studs, nuts threaded on the studs on both sides of the pressure collar, and a nut on the threaded end of the extension outside the pressure collar for applying endwise pressure to the crosshead pin and for locking the latter in place.

1,381,376. VEHICLE-LAMP. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 5, 1919. Serial No. 342,586. 4 Claims. (Cl. 240—44.)

1. A searchlight comprising in combination, a reflector having a central lamp aperture; a substantially parallel-sided tubular stem extending rigidly from the rear side of the reflector encompassing the lamp aperture and exteriorly exposed for attachment to a support; a cap closing the rear end of said stem and telescoping therewith for sliding adjustment therealong, and provided with means for securing it at any point within the



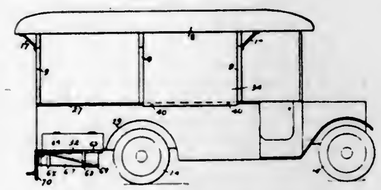
range of said adjustment, and a socket tube of substantially less diameter than the cap, co-axial therewith, affording annular interspace of substantial width between it and the cap throughout its length, and engaged with the head of the cap for axial adjustment with respect to the reflector by the telescoping adjustment of the cap and neck.

1,381,377. AUTOMOBILE-BUMPER. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 15, 1920. Serial No. 424,031. 13 Claims. (Cl. 293—55.)



5. In combination with a bumper bar and supporting arms therefor with laterally separated clamps on said bar by which it is secured to the arms, a plurality of supplemental impact members extending obliquely across the bar with their end portions projecting above and below it to form a frame or grid of greater height than the bar itself, said frame including laterally extending terminal members secured by the said clamps for supporting the frame in proper relation to the bar.

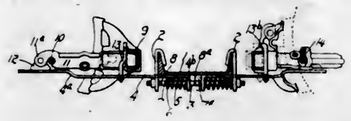
1,381,378. VEHICLE-BODY. GEORGE W. WILKINS, Glendale, Calif. Filed Apr. 1, 1920. Serial No. 370,486. 4 Claims. (Cl. 296—24.)



1. A vehicle body comprising a bed, posts extending upwardly therefrom at each side, boxes at opposite sides of the bed and projecting outwardly from said posts, a top extension plate extending over the posts and projecting outwardly therefrom, a top member extending upwardly from the outer edge of the top plate and over the vehicle

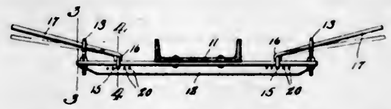
to form pockets in the top member over the top plates, the space between the top plates and over the bed of the vehicle body being unobstructed from the floor of the bed to the top member, and storage compartments provided in said pockets in the top member.

1,381,379. ADJUSTABLE SUPPORT FOR BRAKE-BEAMS. CHARLES HAINES WILLIAMS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,228. 10 Claims. (Cl. 188—213.)



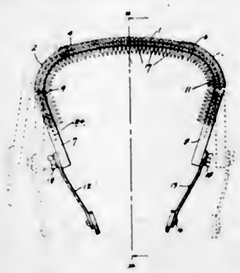
1. The combination of a brake beam support movable longitudinally of its major axis and retracting means cooperating therewith.

1,381,380. ADJUSTABLE THIRD OR FOURTH POINT SUPPORT FOR BRAKE-BEAMS. CHARLES HAINES WILLIAMS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 27, 1920. Serial No. 384,592. 3 Claims. (Cl. 188—213.)



1. The combination of a truck spring plank, a safety bar member secured thereto, an inclined third or fourth point supporting track for brake beams hinged at the end of said safety bar, and means coöperating with said safety bar and the supporting track for adjusting the vertical height and angle of inclination of the latter.

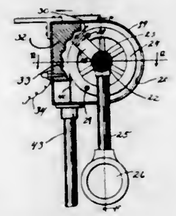
1,381,381. HAIR-CUTTING GAGE. CHARLES O. WILLIAMS, Vallejo, Calif. Filed Nov. 1, 1920. Serial No. 420,854. 3 Claims. (Cl. 132—45.)



3. A hair cutting gage comprising a crown piece, corner pieces hinged thereto, side pieces hinged to said corner pieces, comb teeth provided at one end with pins adapted to extend through said pieces, and a spring member extending between said pins and through said pieces and adapted to normally contract the side pieces to converging positions.

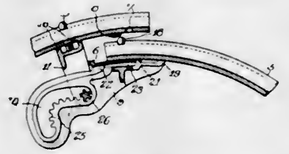
1,381,382. MOTOR-CAR SIGNAL. ELGY WIMP, Chicago, Ill. Filed Mar. 2, 1917. Serial No. 152,057. 2 Claims. (Cl. 177—329.)

1. In a signal device of the class described, a casing rectangular on one side and semi-circular on the other having a quadrantal slot in the semi-circular portion, a signal arm pivotally mounted in said casing projecting through said slot, an illuminating means in the end of said arm, a wheel rigidly secured to said arm, an operating tension member secured to the periphery of said wheel for turning the wheel and thereby swinging the arm, a



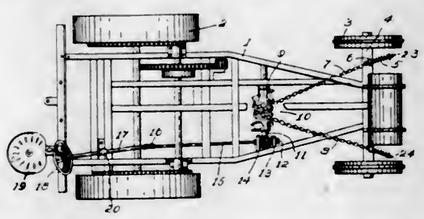
counterweight connected with said arm at an angle of about 135°, a quadrantal contact arranged within and attached to the rectangular portion of the casing, and a contact brush adapted to engage the quadrantal contact when said arm is swung upwardly and thereby produce illumination of the illuminating means.

1,381,383. TIRE-RIM CONTRACTOR. VICTOR WINQUIST, Rockford, Ill., assignor, by mesne assignments, of two-thirds to Burd High Compression Ring Company, Rockford, Ill., a Corporation of Illinois. Filed Sept. 4, 1917. Serial No. 189,640. 8 Claims. (Cl. 157—1.)



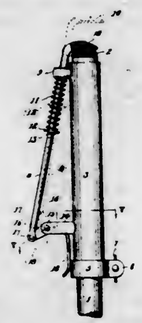
1. A tire-rim contractor comprising a pair of members adapted to be engaged respectively with the opposed ends of a split tire-rim, a rotatable pinion carried by one of said members, and a rack on the other member coöperable with said pinion and shaped so that upon rotation of the latter a relative movement between said members will be effected first radially of the rim and then circumferentially thereof to dispose the rim ends in overlapped position.

1,381,384. STEERING-GEAR FOR TRACTORS. LOUIS W. WITRY, Waterloo, Iowa, assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Filed July 23, 1917. Serial No. 182,294. 2 Claims. (Cl. 280—97.)



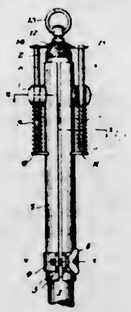
1. The combination with the pivoted steering axle of a vehicle, of a winding-drum having a channeled worm-thread thereon, securing means on the middle part of said drum, said thread gradually widening in pitch from its middle toward its ends, also increasing in diameter from its middle toward its ends, and steering chains or cables connected between opposite ends of said axle and said securing means so as to wind oppositely on said drum in the channel of said thread.

1,381,385. CUE-TIP CLAMP. STEFAN WOJCIK, Detroit, Mich., assignor of one-half to Jacob Lewandowski, Detroit, Mich. Filed Nov. 30, 1920. Serial No. 427,433. 2 Claims. (Cl. 46—10.)



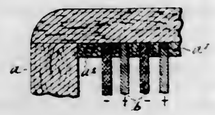
1. A cue tip clamp comprising a tubular clamping body, a clamping screw therefor, a tensioned rod carried by said tubular clamp, a disk head carried by the outer end of said rod overlying said clamp, an angle lever pivotally supported adjacent the inner end of the clamp having one end pivotally connected to the inner end of said tensioned rod with the other end providing a finger piece for shifting said rod.

1,381,386. CUE-TIP CLAMP. STEFAN WOJCIK, Detroit, Mich., assignor of one-half to Jacob Lewandowski, Detroit, Mich. Filed Nov. 30, 1920. Serial No. 427,434. 2 Claims. (Cl. 46—10.)



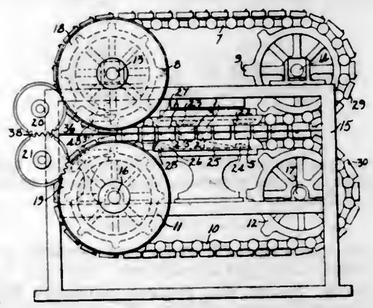
1. A cue tip clamp of the type described comprising a tubular clamping body, a clamp screw carried by the inner end thereof, opposite apertured lugs carried by the tubular clamping body adjacent the outer end, tensioned rods slidably mounted in the apertured lugs, and a cue tip pressing plate carried by the outer ends of said rods.

1,381,387. PROCESS OF MANUFACTURING BATTERY-PLATES. KENNETH WRIGHT, Flint, Mich., assignor of one-half to Ruben H. Williams, Flint, Mich. Filed July 10, 1920. Serial No. 395,261. 6 Claims. (Cl. 204—29.)



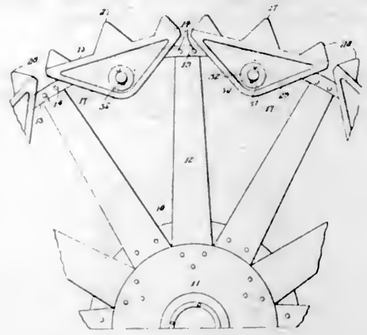
1. The method of forming battery plates which consists in using at the negative pole in a forming tank a series of pasted plates connected together and at the positive pole a series of dummy lead blanks connected together, passing an electric current therethrough for such time as is necessary to form such negative plates.

1,381,388. MACHINE AND METHOD FOR MAKING SHINGLES. HENRY WULFF, St. Paul, Minn., assignor to Silas M. Ford, St. Paul, Minn. Filed July 29, 1918. Serial No. 247,339. 8 Claims. (Cl. 93—1.)



1. In a machine for making shingles, the combination with two coöperating traveling means, of a die carried by one of said traveling means for forming upwardly portions of a shingle strip, and a die carried by the other of said traveling means for again forming the material formed by said first named die.

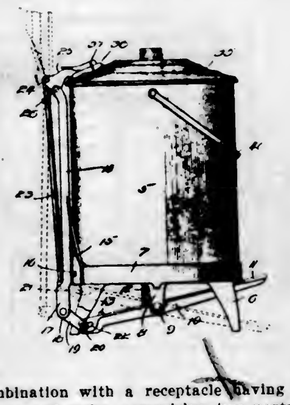
1,381,389. TRACTOR-WHEEL AND LUG. OTTO E. ZAHN, Schleisingerville, Wis., assignor to Julius E. Kiefer, Milwaukee, Wis. Filed Nov. 30, 1920. Serial No. 427,398. 6 Claims. (Cl. 305—13.)



1. A traction member comprising a saddle having journal projections adjacent the corners thereof, tread plates for each pair of projections and journaling connections between each plate and the adjacent projections of the saddle.

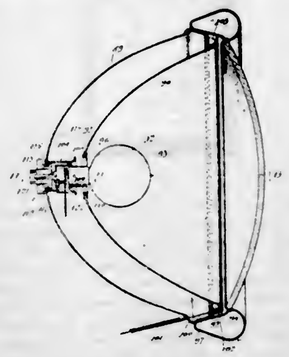
1,381,390. RECEPTACLE. LOTHAR R. ZIFFEREN, Lancaster, Pa. Filed Feb. 19, 1920. Serial No. 359,820. 4 Claims. (Cl. 220—36.)

1. In combination with a receptacle having a cover and lifting means therefor, comprising two parts one being movable relative to the other, the one being formed with companion arms carrying between them a flat spring, and the other part being formed with companion walls between which the first part may be received, and means swingingly connected to the latter part adapted to be moved into position over the former part, and including a cam device adapted to bear on the spring for holding the two parts firmly together, substantially as described.



2. The combination with a receptacle having a cover and lifting means therefor, comprising two parts on one of which is a flat spring, the other part being formed with spaced walls adapted to receive between them the first part, and means swingingly connected to the second part adapted to be moved into position over the first part and including a cam device for engaging with the spring thereon, substantially as described.

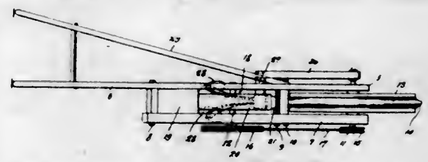
1,381,391. LIGHTING DEVICE FOR MOTOR-VEHICLES. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 27, 1916. Serial No. 133,610. 2 Claims. (Cl. 240—41.)



1. A lighting device comprising a bowl-shaped casing, a bowl-shaped reflector mounted in said casing, said bowl-shaped reflector member having an axial opening therein, said casing being provided with means in alinement with said opening for supporting a lamp in said reflector and being provided with means for tiltably supporting said reflector in said casing, and means operable from the outside of said casing for adjusting the lamp to properly position it in said reflector.

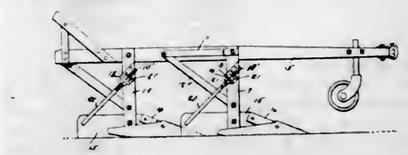
2. A lighting device comprising a bowl-shaped casing, the bowl-shaped reflector mounted in said casing, said reflector having an axial opening therein, said casing being provided with means in alinement with said axial opening for supporting a lamp in said reflector, and a pair of arms extending from said supporting means along opposite sides of said reflector on which arms said reflector is tiltably mounted.

1,381,392. FERTILIZER-DISTRIBUTER. CLAIBOURN BEVILL, Bushnell, Fla. Filed Mar. 13, 1919. Serial No. 282,354. 1 Claim. (Cl. 111—78.)



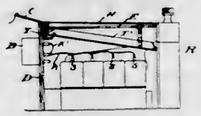
A fertilizer distributer including parallel spaced beams fixedly connected, said beams being straight and one of them extended beyond the other to constitute a handle, a handle connected to the forward portion of said extended beam and diverging rearwardly therefrom, a ground wheel journaled between the forward ends of the beams, a housing fixedly secured between said beams and back of the wheel, a discharge spout extending downwardly from the housing and back of the wheel, a disk mounted for rotation within the housing, pulleys revoluble with the disk and wheel respectively, means for transmitting motion from one pulley to the other, said disk having feed pockets in its periphery, a rearwardly extending bar mounted to swing about the axis of rotation of the wheel and located outside of the space between the beams, a laterally extending member at the rear end of said bar and projecting back of the wheel, and covering means carried by said member.

1,381,393. CULTIVATOR. CLAIBOURN BEVILL, Bushnell, Fla. Filed May 17, 1919. Serial No. 297,919. 1 Claim. (Cl. 97—10.)



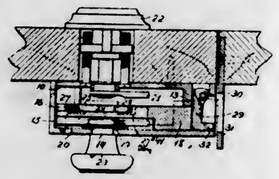
In a cultivator, a plow beam, standards depending from the plow beam, a plow pivotally supported on the lower end of each of the standards, a foot forming a part of each plow and having an opening therein, an adjusting rod associated with each plow, each adjusting rod having a right angled end passing through the opening of the foot associated therewith, each right angled end having an offset portion to lock the rods within the openings, and means for adjusting one end of the rod to cause a relative movement of the plow.

1,381,394. DEVICE FOR PROTECTING THE IGNITION SYSTEM OF AUTOMOBILES. JAMES HENRY BLOODGOOD, Portsmouth, Va. Filed Sept 13, 1919. Serial No. 323,523. 2 Claims. (Cl. 180—69.)



1. A device of the character described comprising, a trough having its vertical walls formed with recesses, a second trough arranged at right angles with respect to the first trough with one end resting on the first trough and extending through one of the recesses, lugs formed on the trough engaging end of the second trough at opposite sides of the other of said recesses, and a bracket secured to the second trough and adapted to be connected to a rest rod which extends between the lugs and through the corresponding recess.

1,381,395. LOCK. ALFRED C. O. BOCK, Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 3, 1920. Serial No. 408,008. 6 Claims. (Cl. 70—46.)



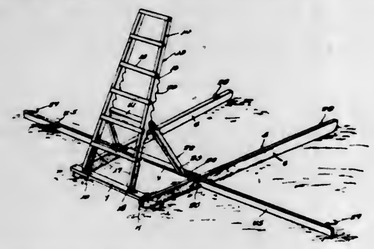
1. In a lock, the combination of a keeper, a lock casing, a hook shaped bolt normally retained within the lock casing and adapted when projected to interlock with the keeper, and a positively actuated main bolt adapted to force said hook shaped bolt to locking position and enter the keeper and perform the function of an ordinary sliding bolt and also back up and reinforce the hook shaped bolt.

1,381,396. PILOT-DIRECTING INSTRUMENT AND BOMB-DROPPING SIGHT FOR AIRCRAFT. ARTHUR H. BOETTCHER, Chicago, Ill. Filed Nov. 18, 1918. Serial No. 263,102. 13 Claims. (Cl. 177—351.)



1. In combination, a drift bar adapted to be set in the direction of actual flight of the aircraft over the earth, a sighting member mounted for movement in azimuth, and means operated by said sighting member for indicating the relative position of said drift bar and said sighting member.

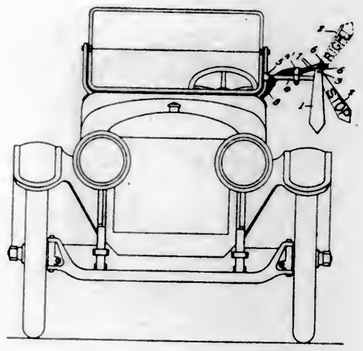
1,381,397. ORCHARD-LADDER. LARKIN BRILES, Lake City, Calif. Filed Oct. 21, 1919, Serial No. 332,158. Renewed Jan. 6, 1921. Serial No. 435,533. 6 Claims. (Cl. 228—64.)



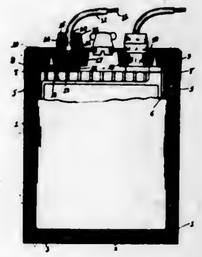
4. An orchard ladder including a base, a ladder mounted on the base, and bracing arms vertically hinged to the base and adapted to be swung outwardly of the same for providing an additional bearing surface.

1,381,398. TRAFFIC-SIGNAL. LINZY BROOKS, Rainier, Oreg. Filed Feb. 28, 1920. Serial No. 361,976. 1 Claim. (Cl. 116—53.)

An automobile signal comprising a signal box, a relatively long arm having its outer end connected to the box, clamping means on the other end of the arm for engaging the windshield frame, a bracket on said arm, signal arms in the box, actuating means located adjacent the driver's seat, flexible members leading from the actuating means to the signal arms and tubes for said means having their outer ends supported by said bracket.



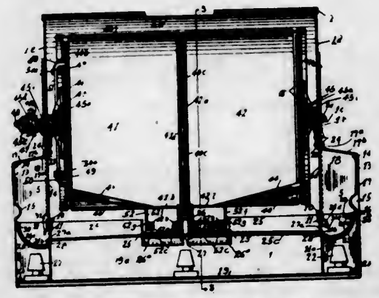
1,381,399. CONTAINING-BOX FOR ELECTRIC BATTERIES. WILLIAM C. BROOKS, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Sept. 14, 1916. Serial No. 120,018. 3 Claims. (Cl. 217—52.)



1. A battery cell box having one or more sides thereof formed of relatively adjustable sections, the lower sections being rigidly secured together to form the box proper, and the upper section or sections being adjustable inwardly relatively to the lower section or sections and comprising inwardly projecting means adapted to engage the upper outside of a cell in said box, and means for adjusting such upper section or sections and projecting means inwardly to clamp a cell in said box.

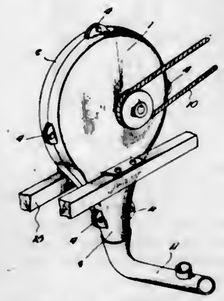
1,381,400. STOCK WATERING AND FEEDING MACHINE. HENRY BURRMANN, Davenport, Iowa. Filed Sept. 2, 1919. Serial No. 321,156. 6 Claims. (Cl. 119—73.)

6. In a stock watering and feeding machine having a rotatable container mounted in a box case, a supply pan secured in such box-base under such container, supply channel means connectedly suspended between such supply pan and the outer wall of a trough housing provided in the wall of a box-base; double divisional walls arranged parallel with its end walls within the container dividing the same into compartments, other divisional walls arranged right-angularly disposed to such end walls within a compartment, dividing such compartment into sub-compartments; air chambers between the walls of separate compartments; a bilge opening in each compartment, an opening in each sub-compartment, each opening opening into a bilge arranged to discharge into a supply pan arranged beneath the container, a supply channel attached between a supply pan and the outer wall



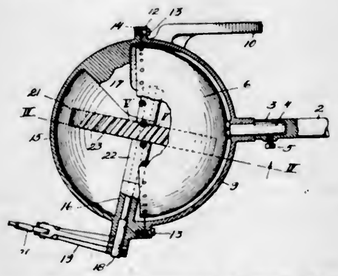
of a trough housing, its outer end conforming to a trough; a removable trough loosely secured within the outward end of a supply channel adjacent to the outer wall of the trough housing of the box base, all for the purposes specified.

1,381,401. BLOWER. FRED L. CANTWELL, San Bernardino, Calif. Filed June 1, 1920. Serial No. 385,656. 1 Claim. (Cl. 230—11.)



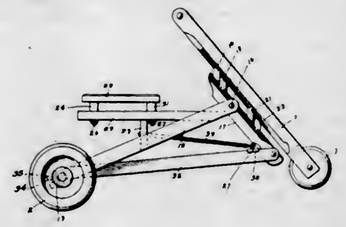
A blower comprising similar mating casing members secured together, one of said members being provided with a bearing therethrough and the other of said members being provided with an arched bearing bar in alinement with the said bearing and having inlet openings at opposite sides of said bar, a fan shaft journaled in the said bearing and the said bar, a fan secured upon said shaft between the casing members, and a driving pulley on one end of the said shaft.

1,381,402. AUTOMOBILE STEERING-GEAR. FRED M. COPP, Kansas City, Mo. Filed Sept. 10, 1920. Serial No. 409,417. 5 Claims. (Cl. 74—79.)



2. A steering gear, comprising a shaft, an internal tooth gear wheel thereon, a second shaft, a wheel thereon provided at diametrically opposite points with two sets of external reversely-pitched worm teeth meshing with the said gear wheel, a crank arm on the said worm wheel shaft, and a steering wheel connected to turn the first-named shaft.

1,381,403. TOY VEHICLE. EDWIN G. COX, Oakland, Calif. Filed Aug. 20, 1919. Serial No. 318,725. 5 Claims. (Cl. 208—38.)



1. In a device of the character described, the combination of a frame, a seat mounted thereon, a link pivoted thereto, a steering post flexibly connected to said link, a wheel carried by said steering post, a handle carried at the upper end of said steering post, a crank carried by the rear of said frame, and a pitman pivoted to said crank and pivotally connected to the lower end of said link.

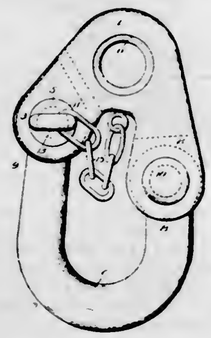
1,381,404. AUXILIARY SUBDUING-REFLECTOR FOR HEADLIGHTS. ERNEST E. CURRIER, Ipswich, Mass. Filed Oct. 14, 1919. Serial No. 330,557. 1 Claim. (Cl. 240—48.6.)

In a headlight, the combination with a reflector, and a lamp disposed in front of the reflector, of a colored screen consisting of a segmental plate arranged between the lower portion of the lamp and the lower portion of the reflector, the side edges of the screen being below the axis of the lamp and of the reflector and the front end of the screen being in advance of the lamp and below the axis of the same, the side edges of the screen converging rearwardly and the screen terminating at its rear end in an upturned eye adapted to engage around the stem of the lamp whereby to support the screen, the screen conforming generally to the curvature of the reflector whereby throughout its area it will be spaced from the reflector.

1,381,405. SHACKLE-HOOK. FORREST T. DUNHAM, Hoquiam, Wash. Filed Jan. 5, 1920. Serial No. 349,471. 1 Claim. (Cl. 24—241.)

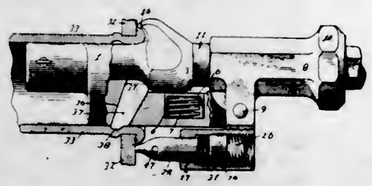
In a hook of the class described, a deep substantially U-shaped shackle member having a rounded smooth sur-

face with the side faces of its terminals flattened and merging gradually without shoulders at their bases into the body of said member with their free ends apertured, one arm being shorter than the other, a substantially V-shaped keeper member having a rounded smooth surface and one arm longer than the other, the terminals of said arms being bifurcated edgewise to receive the flattened ends of said shackle member and having apertures registering with the apertures in said flattened ends to receive respectively a pintle and a locking pin, the apex of said keeper being rounded to form a smooth elongated nose for forcing its way through obstructing objects without



engaging them and provided with a line receiving eye, the long arm of the keeper being pivotally connected with the short arm of the shackle and the short arm of the keeper detachably engaged with the long arm of the shackle, the so connected shackle and keeper members forming an elongated substantially ovate member provided with an elongated longitudinally extending central opening to receive the draft and load engaging elements whereby pull exerted on said member will be at dametrically opposite points in a direct line with the greatest strength thereof, and the draft and load engaging elements held out of contact with each other.

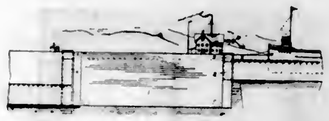
1,381,406. TURNING AND BEADING TOOL. WILLIAM A. FINDLEY, San Francisco, Calif. Filed July 1, 1920. Serial No. 394,354. 11 Claims. (Cl. 153—79.)



1. The combination with a tool of the character described comprising a slidable and rotative hammer having a plurality of shoulders thereon, adapted to successively bevel, expand and bead the end of a tube into a boiler head or the like, of means actuated by said hammer for expanding said tube adjacent the inner surface of said boiler head.

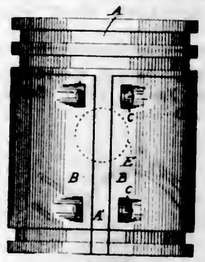
1,381,407. NAVIGABLE VESSEL-LOCK. CORNELIUS O. FLYNN, Duluth, Minn. Filed Mar. 18, 1921. Serial No. 453,305. 4 Claims. (Cl. 61—8.)

2. The herein described method of freeing a navigable lock of floating obstructions in the water above the lock, of first raising the water within the lock to substantially the same level as the water above the lock, then opening the upper portions of the upper gates to permit the obstruction floating into the lock over the lower portions of the upper gates, then opening the upper por-



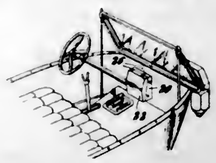
tions of the lower gates and permitting the obstruction to float over the lower portions of the lower gates of the lock, thus getting rid of the obstruction without emptying the lock.

1,381,408. PISTON FOR INTERNAL-COMBUSTION ENGINES. GEORGE S. FOWLER, Joplin, Mo. Filed June 27, 1919. Serial No. 307,102. 1 Claim. (Cl. 74—108.)



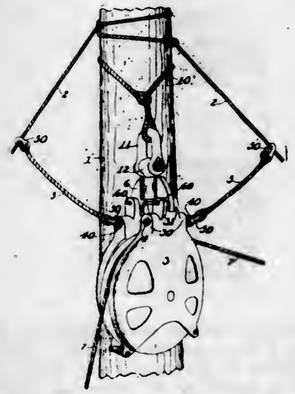
A piston comprising a cylindrical portion forming a piston head, a web projecting therefrom and extending throughout the length of the piston, the width of the web being substantially equal to the diameter of said cylindrical portion, said web being of substantially uniform thickness throughout, a pair of substantially semi-cylindrical members arranged on each side of said web and forming the body portion of the piston, said web and said semi-cylindrical members being provided with registering openings, and bolts arranged in said openings to retain said semi-cylindrical members in position.

1,381,409. AUTOMOBILE-SWITCH. JOHN A. FREEZE, Sayreville, N. J., assignor of one-half to Morris Rumper, New York, N. Y. Filed Aug. 1, 1917. Serial No. 183,854. 3 Claims. (Cl. 200—43.)



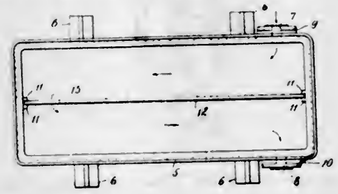
1. An automobile switch of the character described comprising a casing, a plate hinged within said casing, a plurality of electric switch controlling disks, a stem fixedly supporting each disk, sleeved within each other and mounted through the hinged plate rotatably, a ratchet plate mounted upon each stem, means for adjustably locking the ratchet plates to the respective disks and switch engaging arms carried by the ratchet plates.

1,381,410. HIGH-LEAD BLOCK. GERALD FRINK, Seattle, Wash. Filed June 21, 1920. Serial No. 390,516. 10 Claims. (Cl. 254—195.)



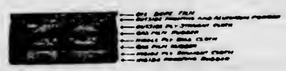
1. A pulley block having means for the normal suspension thereof and separate means independent thereof adapted for securing emergency supporting members thereto.

1,381,411. CONCENTRATING-PAN. EDWARD H. FROMM, Allentown, Pa., assignor to Fuller-Lehigh Company, a Corporation of Pennsylvania. Filed Nov. 9, 1918. Serial No. 261,785. 1 Claim. (Cl. 127—9.)



A concentrating vessel comprising a relatively shallow pan of cast iron which in practical use is subjected to such changes in temperature as produce considerable expansion and contraction of the material of the pan, a pair of guide lugs integrally cast on each of the inner walls of two opposite sides of the pan, and a baffle positioned in the pan so as to provide a tortuous path for the flow of liquor through the pan, said baffle being loosely and removably held in position within the pan by said pairs of guide lugs thereby permitting expansion and contraction of the pan independently of the baffle; substantially as described.

1,381,412. FABRIC FOR AIRSHIPS AND PROCESS OF MAKING SAME. HENRY A. GARDNER, Washington, D. C. Filed Jan. 6, 1920. Serial No. 349,836. 24 Claims. (Cl. 91—68.)



1. A fabric of the class described comprising a basic material of cloth proofed with rubber and a film of elastic impervious oil on said rubber.

14. The process of making airship fabric which consists in coating a basic material proofed with rubber with film of oil of the class which dries by polymerisation.

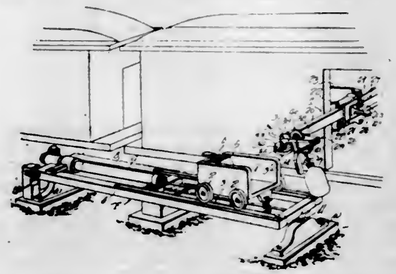
1,381,413. FABRIC FOR AIRSHIPS AND PROCESS OF MAKING SAME. HENRY A. GARDNER, Washington, D. C. Filed Jan. 6, 1920. Serial No. 349,837. 22 Claims. (Cl. 91—68.)



1. A fabric of the class described comprising a cloth base treated with a suitable fireproofing compound and a film containing an oil of the class which dries by polymerization.

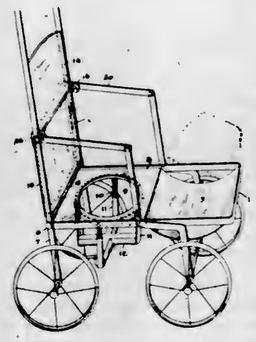
11. The process of making fabric of the class described which consists in treating a cloth base with a fireproofing solution, delivering said base through a series of rolls to remove excess solution, and coating said cloth base with a dope containing an oil of the class which dries by polymerization.

1,381,414. RAILWAY MAIL-DELIVERING APPARATUS. OTTO M. GILBERTSON, La Crosse, Wis. Filed Apr. 23, 1920. Serial No. 376,116. 5 Claims. (Cl. 258—16.)



1. A delivery unit for railway mail apparatus comprising an arm carried by a railway car and having a horizontal rearward extension pivoted on its uoter end, means on said extension for normally holding a mail bag suspended therefrom, means for automatically releasing said holding means when the destination of the mail bag has been reached, and means for holding said extension against pivotal movement but for permitting it to be swung to a reversed position and locked.

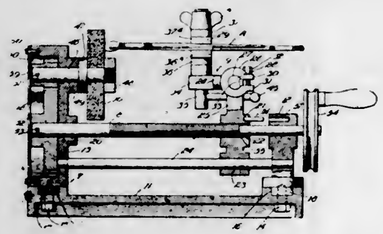
1,381,415. COMBINED BABY CARRIAGE AND WALKER. ELLA I. GUDELJ, San Francisco, Calif. Filed Dec. 6, 1919. Serial No. 342,879. 1 Claim. (Cl. 155—24.)



A combined baby carriage and walker comprising a frame supported on wheels and having a hole therein of

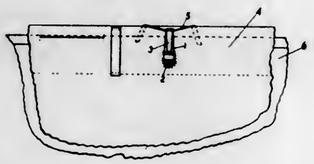
sufficient size to receive a baby, means suspended from said frame for suspending a baby from the margin of said hole, with the feet of the baby in position to contact with the ground and the head and shoulders of the baby above said frame, a seat hinged to the frame so as to swing from a horizontal position covering said hole and providing a seat, to a position uncovering said hole so that access to the said means is provided and a seat back hingedly connected to the frame and adapted for supporting the seat in its raised position.

1,381,416. SCISSORS-GRINDING MACHINE. STEPHEN O. HEINDL, Chicago, Ill., assignor of one-half to Ernest Zeitz, Chicago, Ill. Filed Oct. 19, 1920. Serial No. 417,977. 14 Claims. (Cl. 51—91.)



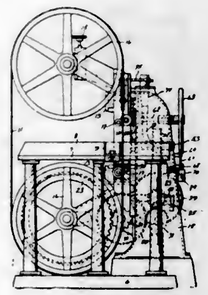
1. A grinding machine comprising, in combination, a frame having a pair of spaced supports, a drive shaft journaled at its opposite ends in said supports, a second shaft journaled in one of said supports and positioned parallel to said drive shaft, a plurality of gears housed within the last mentioned support and operatively connecting said shafts, a grinding wheel fixed on said second shaft, a feed block mounted on said drive shaft having screw threaded engagement therewith, a work holder carried by said feed block and moved thereby in parallel relation to the axis of said grinding wheel, said work holder being adapted for manually swinging the work to effect pressure thereof upon the grinding wheel, and means for operating the drive shaft.

1,381,417. GARMENT-FASTENER. FRANK C. HOFFMAN, Alameda, Calif. Filed July 9, 1918. Serial No. 244,084. 1 Claim. (Cl. 24—226.)



The combined garment supporter, suspender button and belt retainer, in combination with a pair of trousers, comprising an elongated strip of metal having its side edges tapering toward one end thereof to a point, the larger end of the strip having a plurality of openings therein through which the strip is vertically secured to the outer face of the upper edge of the trousers, said strip being bent upon itself at a medial portion, whereby the smaller end portion thereof is projected toward the other end of the strip and at an angle to the remainder of the strip, the bent portion of the strip being abrupt thereby forming a definitely defined wedge-shaped slot in which a loop of the nether garment may engage and also the edge of a supporting belt, said smaller end portion terminating in a straight smooth point to pierce the button hole of a suspender.

1,381,418. BAND-SAW MACHINE. GEORGE C. HUNTER, New Haven, Conn. Filed Apr. 7, 1920. Serial No. 371,836. 9 Claims. (Cl. 29—68.)



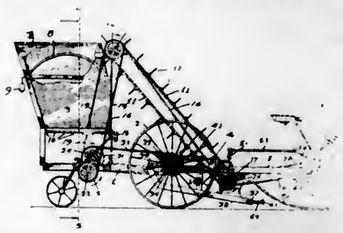
1. In a band saw machine, the combination of a reciprocating frame, a band saw and its wheels carried by the frame, and means to drive one of said wheels, including a sliding shaft carried by the frame and geared to the wheel and means to drive said shaft and permit the slide thereof.

1,381,419. SACK-LINING MACHINE. ANITA G. HYAMS and FRANCIS A. HYAMS, San Rafael, Calif. Filed Apr. 20, 1920. Serial No. 375,416. 6 Claims. (Cl. 226—18.)



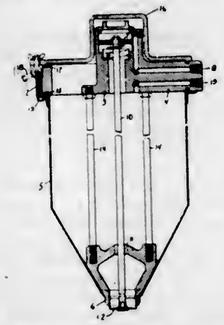
1. A machine for lining sacks comprising a suitable frame, a pair of sack supports carried thereby, supports for a second sack at a distance from the first supports and a pair of reciprocating arms adapted to push the second sack into the first sack.

1,381,420. HAY-BUNCHING MACHINE. EUGENE E. JUCHTZER, San Francisco, Calif. Filed Jan. 30, 1918. Serial No. 214,555. 7 Claims. (Cl. 56—347.)



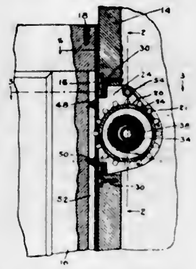
1. A hay bunching machine comprising a hopper; means for conveying hay from the ground to the hopper; a partition dividing said hopper into two substantially equal compartments; retaining means operatively mounted adjacent the bottoms of said hopper compartments for retaining hay therein, and adapted to release said hay when a predetermined amount has been deposited in said compartments.

1,381,421. MEANS FOR DEPOSITING DOUGH. ERNEST E. LINDSEY, San Francisco, Calif. Filed Oct. 25, 1920. Serial No. 419,321. 2 Claims. (Cl. 107—28.)



2. In a dough depositing machine having means for expressing dough through a die, a cut-off valve, which in conjunction with the said die, may regulate the deposition of the dough, a valve stem whereby the valve may be operated by the operating means, said operating means being at a distance above said valve and consisting of a compressed air engine in which the piston is attached to the valve stem and is moved downward by air pressure and upward by the recoil of a spring, control being had by regulation of the air supplied to said compressed air engine.

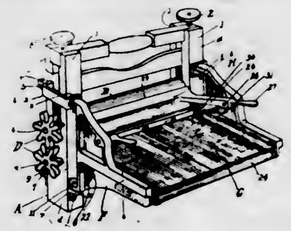
1,381,422. WINDOW-SASH HOLDER. WILLIAM MANDEL, Minneapolis, Minn. Filed Aug. 21, 1920. Serial No. 405,007. 1 Claim. (Cl. 16—150.)



A window sash holder comprising a perforated flexible metal strip adapted to be fastened to the side of a window sash, a housing adapted to be mounted in the window frame adjacent the sash, a fixed axle within said housing, a roller having an annular flange rotatably supported on said axle, a coiled spring secured at its inner end to said axle and secured at its outer end to said roller, teeth on said roller adapted to engage in the perforations of said strip, ears on said housing, rollers supported by said ears arranged to hold said strip in engagement with said teeth, a rod rotatably mounted in said housing, a perforated plate secured to said rod, and a handle on said rod whereby said plate may be caused to engage or disengage said teeth at will.

1,381,423. SAFETY DEVICE FOR CLOTHES-WRINGERS. NATHANIEL MINTZ and CHARLES C. HIERS, St. Paul, Minn. Filed Aug. 7, 1920. Serial No. 401,938. 6 Claims. (Cl. 68—32.)

1. In a device of the class described, the combination with a clothes wringer frame and parallel horizontally disposed wringer rolls contactingly mounted one above the other thereon, of a frame extending outwardly from the side of the wringer frame, an upwardly swingable finger shield in front of said rolls, a table in front of said shield the forward edge thereof parallel with said rolls and normally spaced therefrom and from said shield, said table being mounted to slide on said extending frame



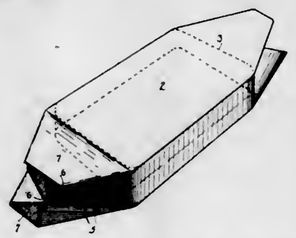
under said shield to raise it and toward a point midway between said rolls to bring said forward edge to a position adjacent the point of contact between said rolls for the purpose set forth.

1,381,424. KEY-GUARD. HANS J. NIELSEN, San Francisco, Calif. Filed Jan. 21, 1920. Serial No. 353,065. 2 Claims. (Cl. 116—114.)



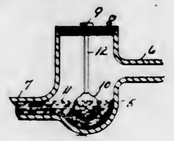
1. A key guard including a plate, a key suspended from said plate, and means outstanding from both sides of said plate, whereby a bulky guard is formed.

1,381,425. WRAPPER. F BERT OLDHAM, Auburn, Me. Filed Sept. 18, 1916. Serial No. 120,663. 4 Claims. (Cl. 229—87.)



1. A wrapper for a substantially flat article consisting of a tube having infolded tucks automatically expansible by the insertion of the article to be wrapped to form finger guiding grooves in the overhanging portions of the wrapper at both ends of the article to be wrapped.

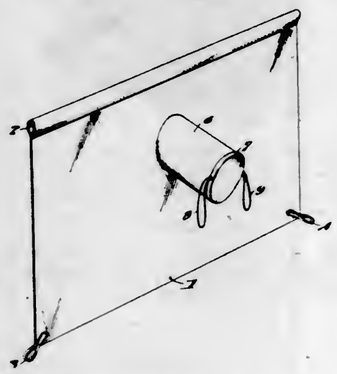
1,381,426. FREEZE-EXPANSION-ABSORBING DEVICE. MANNIE B. PARKER, Oklahoma, Okla. Filed Oct. 6, 1919. Serial No. 328,812. 1 Claim. (Cl. 137—72.)



In a device of the kind described, the combination with a containing trap, of an internally located and suspended

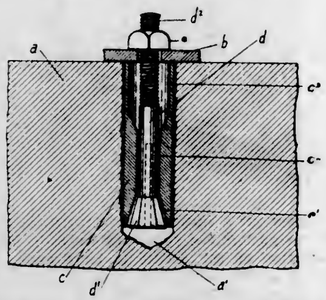
flexible member for displacing the upper part of the fluid contained, and means for holding the flexible member in depending suspension and spaced from the bottom of the trap.

1,381,427. CANVAS CHECK-DAM. BENJAMIN H. PATRICK, Boise, Idaho. Filed Oct. 22, 1920. Serial No. 418,718. 1 Claim. (Cl. 61—29.)



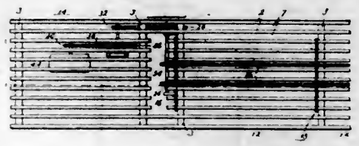
A check dam comprising a rectangular body sheet of fabric having an open loop for reception of a supporting pole and provided with a spillway opening midway between its ends beneath the open loop at the top edge, stake loops provided on the lower corners of said body sheet, a spillway tube of fabric material secured in a spillway opening of the body sheet and having a casing formed at its outer end, and drawstrings run through said casing to be pulled in to constrict the discharge opening of the spillway tube.

1,381,428. FOUNDATION-BOLT. ROBERT S. PEELLE, Hollis, N. Y., assignor to The Peelle Company, a Corporation of New York. Filed Jan. 30, 1919. Serial No. 273,984. 1 Claim. (Cl. 85—2.4.)



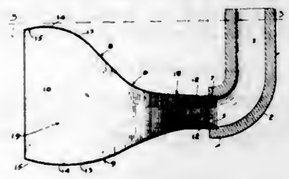
A foundation bolt embodying therein a sleeve adapted to be seated in a drill hole, the bore of said sleeve at one end thereof being in the form of a truncated polyhedron with its base toward the end of the sleeve, at the other end thereof being cylindrical and enlarged, and the central portion connecting said end portions being cylindrical, and said sleeve adjacent said portion formed as a polyhedron being slotted, a screw bolt having a loose bearing in said central cylindrical portion of the bore of said sleeve, whereby said bolt may be moved radially of said sleeve, said bolt having a wedge shaped head in the form of a truncated polyhedron conforming in contour with the portion of said sleeve adjacent said slots, and a screw-threaded end projecting beyond the end of said sleeve, and a nut coöperating with said screw-threaded end.

1,381,429. MATTRESS-CONVEYER. JOHN A. PETERSON and HENRY PETERSON, Kansas City, Mo. Filed Apr. 15, 1919. Serial No. 290,149. 4 Claims. (Cl. 193—8.)



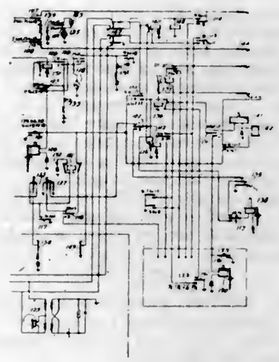
1. In a machine of the character described, a horizontal table having mattress receiving and delivery ends and a transverse opening between said delivery end and the adjacent portion of the table and of less width than said table, endless cables paralleling the top of the table and descending at said transverse opening, means for operating said cables, and means carried by said cables adapted to move the mattresses from the receiving end to the delivery end of the table and descend through the transverse opening.

1,381,430. AMPLIFIER FOR PHONOGRAPHS AND THE LIKE. EDWARD PHIPPS, San Francisco, Calif. Filed Feb. 25, 1920. Serial No. 361,185. 2 Claims. (Cl. 181—27.)



2. A phonograph amplifier comprising a plurality of walls of relatively thin resonating material, each of said walls being formed as an ogee curve whereby said walls are maintained under stress.

1,381,431. MACHINE-SWITCHING TELEPHONE SYSTEM. LIPA POLINKOWSKY, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1918. Serial No. 251,603. 12 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a calling line, a called line, means for establishing a connection between said lines, means for rendering the called line busy during such connection, a second calling line, an operator's position, a second operator's position, means at said first

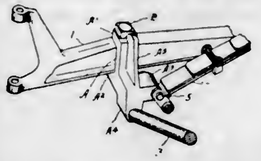
position for extending the second calling line to said second position, a series of automatic switches, means for operating said switches to extend the second calling line to said called line, means for notifying the operator at said second position of the busy condition of the called line, and means under the control of said first operator for releasing said first connection.

1,381,432. REAR-AXLE SPRING-BAR CONNECTION DEVICE. ROBERT M. ROOF, Anderson, Ind., assignor to Laurel Motors Corporation, Anderson, Ind. Filed June 3, 1920. Serial No. 386,385. 5 Claims. (Cl. 267—54.)



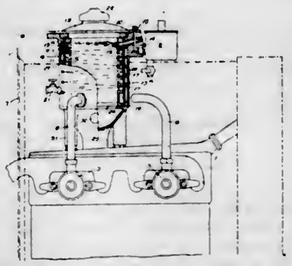
3. A spring-bar connection device, consisting of a divided block the half sections of which are adapted to be clamped on the axle shaft, means to draw the half sections of said block toward each other and to secure same at tenacious engagement with the axle shaft housing, a support bar secured to the lower portion of the block and radius rod, and a shackle clevis carried loosely on said support bar.

1,381,433. FRONT-SPRING-BAR CONNECTION DEVICE. ROBERT M. ROOF, Anderson, Ind., assignor to Laurel Motors Corporation, Anderson, Ind. Filed June 3, 1920. Serial No. 386,386. 2 Claims. (Cl. 267—54.)



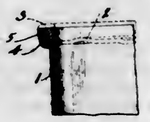
2. A spring-bar connection device, consisting of a block having upper and lower perforated ears to engage the top and bottom faces of the axle shaft, and a horizontal transverse lug at its lower side to be engaged by the motor-car spring, and a lug to be engaged by the motor car frame reach rod, and a connector bolt to pass through the ears and through the axle shaft, substantially as described.

1,381,434. LIQUID-FUEL INTERNAL-COMBUSTION ENGINE. PERCY OCTAVIUS ROWLANDS, Liverpool, England. Filed July 2, 1918. Serial No. 243,088. 5 Claims. (Cl. 123—122.)



1. In apparatus of the character described, an inner shell adapted for the reception of solid fuel and provided upon its periphery with a spiral groove having its outer side open, a second shell receiving the inner shell and closing the open side of the spiral groove, air inlet means for the spiral groove, and means to cause the air heated within the spiral groove to contact with a liquid fuel to be vaporized.

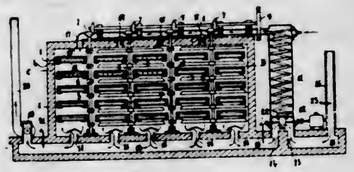
1,381,435. RECEPTACLE AND THE ART OF ITS RECOVERY. JAMES M. RUDE, Covington, Ky., assignor to Can Conservation Company, Louisville, Ky., a Corporation of Delaware. Filed Mar. 4, 1918. Serial No. 220,217. 8 Claims. (Cl. 113—116.)



1. In the art of recovering cans, cutting away that portion of an injured can cover which extends across the edge of the end of the can body for detaching the main portion of the cover and allowing that portion of the can cover extending outside of the body of the can and beyond the portion cut away to remain in engagement with the can.

6. As a new article of manufacture, a can body comprising a hollow cylinder of sheet material having an open end bordered exteriorly at its margin with an annulus soldered to the body of the can and formed of part of the material of an old cover remaining after removal of the old cover from the can body by severing the material of said old cover substantially along and coincident with the circular line of the marginal bead of the old cover, the said can body being smooth and free of all obstructions interiorly about its open end.

1,381,436. DRYING APPARATUS. EMILE SAVY, Paris, France. Filed Feb. 28, 1919. Serial No. 279,724. 5 Claims. (Cl. 34—39.)

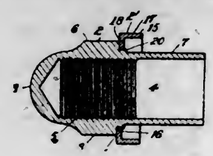


1. In an apparatus of the general class described, a series of spaced pairs of permeable members, each pair of members receiving between them the substances to be treated and confining such substances against material displacement, a series of fans arranged one in each space between adjacent pairs to induce a circulation through said members and the substances confined thereby, and means for simultaneously removing the substance to be treated positioned between any of said pairs of permeable members and inserting other material in place thereof.

1,381,437. HUB-NUT AND METHOD OF MAKING THE SAME. OSCAR A. SMITH, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 28, 1920. Serial No. 361,955. 29 Claims. (Cl. 10—86.)

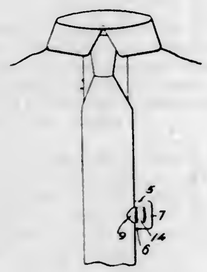
1. A two-part nut comprising a body member and a flange member assembled and rigidly interlocked there-

with by forcing a portion of the metal of one member beyond the normal face thereof into and also against the



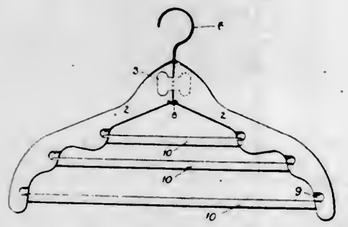
face of the other member thereby to prevent movement of the same in a plurality of directions.

1,381,438. CLIP OR CLASP. WILLIAM H. STEVENS, New York, N. Y. Original application filed Sept. 26, 1918, Serial No. 255,783. Divided and this application filed Nov. 10, 1919. Serial No. 337,067. 2 Claims. (Cl. 24—259.)



1. A clasp comprising a blank having a rectangularly shaped tongue stamped therefrom the free end of the tongue being of tapering formation, said tongue being bent adjacent its root, the tapering end of the tongue and the adjacent inner edge of the blank being toothed to enter a fabric gripped therebetween.

1,381,439. GARMENT-HANGER. ABRAHAM TANNENBAUM, Brooklyn, N. Y. Filed Jan. 8, 1921. Serial No. 435,805. 1 Claim. (Cl. 211—13.)

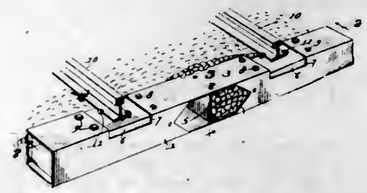


A garment hanger comprising a pair of duplicate members, each of said members having projecting from one side of its end a tongue provided with an enlarged end, each of said members further having a recess at the end on the side opposite the tongue and shaped to receive the tongue of the remaining member, each of said members further having a series of L-shaped slots formed in its inner face and opening laterally through one side, the slots in one member being alined with corresponding slots in the other member, and suspending members adapted to slip through the laterally opening portions of the slots and seat in the bottom thereof whereby to be held against accidental displacements.

1,381,440. PROCESS OF BLEACHING VEGETABLE FIBERS. GEORGE G. TAYLOR, Holyoke, Mass., assignor to American Writing Paper Company, Holyoke, Mass., a Corporation of New Jersey. Filed Dec. 18, 1920. Serial No. 431,794. 1 Claim. (Cl. 8—2.)

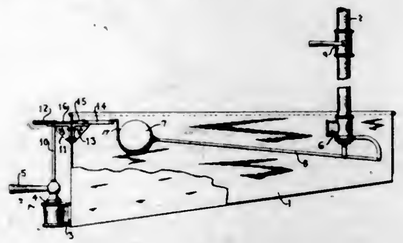
Process of bleaching vegetable fibers, comprising subjecting the fiber to a hypochlorite in presence of free boric acid, the latter in less than the equimolecular proportion to the hypochlorite.

1,381,441. RAILROAD-TIE. GRANT H. TOMB, Slate Run, Pa., assignor of one-half to Jacob G. Tomb, Slate Run, Pa. Filed Mar. 9, 1921. Serial No. 451,006. 2 Claims. (Cl. 238—78.)



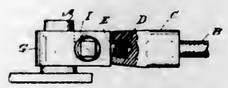
1. A railway tie, comprising a tie body constructed of relatively heavy malleable sheet metal, said body having a central opening provided with upper and lower pliable walls, said body having end pockets with rail supporting fiber blocks therein, the upper parts of the tie being cut away to expose the blocks, whereby the rails may engage therewith.

1,381,442. ICE-CREAM FREEZER. EMERY THOMPSON, New Rochelle, N. Y. Filed Feb. 27, 1920. Serial No. 361,897. 5 Claims. (Cl. 221—112.)



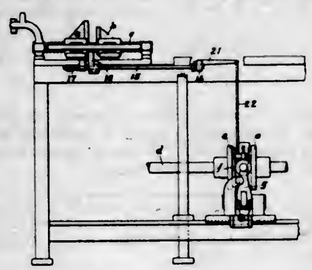
1. The combination of a reservoir, an inlet valve, a float controlling said valve, an outlet turn-valve having a handle, a coaxial rock-shaft extending upward from said turn-valve, and float supporting and releasing means connected with the upper part of said shaft.

1,381,443. CONNECTOR FOR BATTERIES. WILLIAM WOESSNER, St. Louis, Mo. Filed Jan. 26, 1920. Serial No. 353,996. 4 Claims. (Cl. 173—259.)



4. An electrical connector comprising a clamping ring having a body portion with a recess interiorly threaded, a cable tip having a screw-threaded stub at one end and soldered to a cable at the other end, and an interposed piece having a socket end with interior threads adapted to match said stub of the cable tip and having at the opposite end a screw-threaded stub adapted to match said recess,—the threaded portions on the interposed piece being of different diameters, substantially as described.

1,381,444. NARROWING SAFETY-STOP FOR FULL-FASHIONED KNITTING-MACHINES. MELCHIOR ZWICKY, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1920. Serial No. 411,362. 3 Claims. (Cl. 66—30.)



1. In a full fashioned knitting machine having narrowing nuts, a laterally shiftable cam shaft, and a shifting lever normally movable into operative relation to said cam shaft; a pattern-released locking device for said lever and a supplemental automatically operated safety lock therefor.

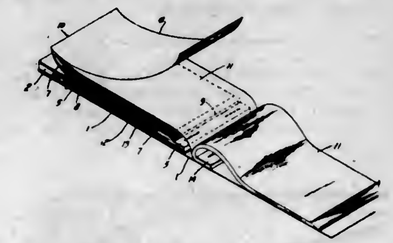
1,381,445. ILLUMINATING-BODY. AXEL G. BERGMAN, New York, N. Y., assignor to Ordnance Engineering Corporation, New York, N. Y., a Corporation of New York. Filed July 12, 1919. Serial No. 310,464. 14 Claims. (Cl. 102—20.)



1. A projectile adapted to be discharged from a gun, and having therein a "star" mass or body, and means for igniting said star mass or body while in flight, said means comprising an igniting body embedded in said star mass or body, and having a face adapted to be exposed to an igniting flame, and means for restricting the flow of gases out of the cavity produced by the progressive burning of said igniting body, whereby the rarefication behind said mass produced by the rapid flight thereof is prevented from affecting the combustion of said igniting body to an extent that will interfere with its action in igniting said star mass.

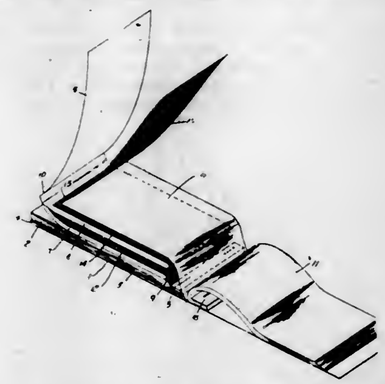
1,381,446. MANIFOLDING-SALESBOOK. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed July 7, 1920. Serial No. 394,503. 4 Claims. (Cl. 282—24.)

1. A manifolding book comprising, in combination, a series of sets of leaves for manifold copies, each set including an original leaf, a duplicate leaf and a triplicate leaf attached together at one end, one of the leaves of each set being attached to the stub portion, a quadruplicate leaf adapted to lie between two of said first



mentioned leaves, and transfer material disposed to transfer impressions from the original to the other leaves of a set, including a double faced transfer leaf between said quadruplicate leaf and the next underlying manifold leaf.

1,381,447. MANIFOLDING-SALESBOOK. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed July 7, 1920. Serial No. 394,504. 11 Claims. (Cl. 282—24.)



1. A manifolding book comprising, in combination, a series of sets of leaves for manifold copies, each set including an original leaf, a duplicate leaf, and a triplicate leaf attached together at one end, one of the leaves of each set being attached to the stub portion, a quadruplicate leaf adapted to lie between two of said first mentioned leaves, and transfer material disposed to transfer impressions from the original to the other leaves of a set including a leaf of transfer material adapted to lie between said quadruplicate leaf and the manifold leaf thereabove.

1,381,448. FIREARM. JOHN M. BROWNING, Ogden, Utah. Original application filed Apr. 27, 1920, Serial No. 376,922. Divided and this application filed July 28, 1920. Serial No. 399,545. 7 Claims. (Cl. 42—17.)



1. A fire arm comprising a frame, a breech-block, a magazine having means to guide the cartridge toward the

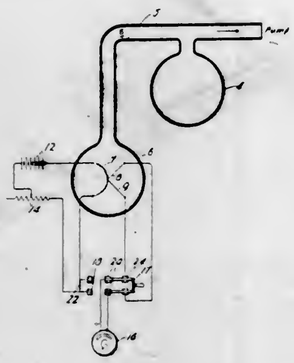
barrel, a trigger plate, a pusher on the breech-block, and means on the trigger plate for operating the rear end of the pusher to tip down the back end and thus cause the front end of the pusher to tip up and engage the cartridge which has just emerged from the magazine and push it into the path of the breech-block.

1,381,449. TOY REPEATING-RIFLE. SILAS B. BROWN, Cincinnati, Ohio, assignor to The Edwards Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 13, 1919. Serial No. 330,238. 10 Claims. (Cl. 42—57.)



1. In a toy repeating rifle comprising a stock member having a recess in one side of its free end, a barrel formed of sheet metal secured upon the fore end of said stock and having an open under side for communication with said recess, a unitary ammunition tape feeding and exploding mechanism mounted in said stock recess, and a closure for said recess.

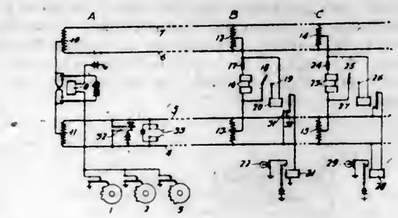
1,381,450. APPARATUS FOR MEASURING GAS-PRESSURES. JOSEPH T. BUTTERFIELD, Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1917. Serial No. 180,686. 8 Claims. (Cl. 73—31.)



1. The method of determining gas pressures within a vessel which comprises producing heat at a substantially constant rate at a point in said gas, diverting a portion of said heat, and measuring the diverted portion in terms which permit of the deduction therefrom of the pressure.

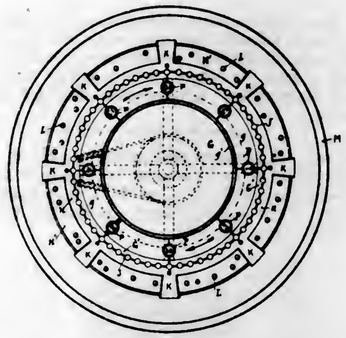
1,381,451. SWITCHING SYSTEM. LESLIE E. COON, Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,446. 5 Claims. (Cl. 177—353.)

3. In a switching system, a phantom circuit, a selecting station and a plurality of selectively operable switching devices associated therewith, means at the selecting station to transmit current impulses over the phantom circuit to advance any of the switching devices into a predetermined position, means controlled by each switching device to prepare a circuit including the physical conductors comprising a side circuit of the phantom circuit when the associated device reaches its predetermined position, the relation of such conductors in the prepared circuit differing for each device signaling means controlled by each



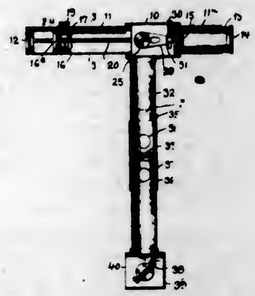
such prepared circuit, a second source of current, and means at the selecting station to associate such second source of current with the prepared circuit to operate the signaling means controlled thereby.

1,381,452. GAME APPARATUS. THOMAS E. COOPER, Erie, Pa. Filed July 2, 1920. Serial No. 393,698. 6 Claims. (Cl. 46—57.)



1. In a game apparatus, a stationary ring, a central revoluble member, a manually operated member, equally spaced means on said ring and revoluble member adapted to be co-engaged by said manually operated member to stop the revolution of said revoluble member, substantially as described.

1,381,453. RANGE-FINDER. HENRY A. COURMETTES, New York, and ABRAHAM B. COX, Cherry Valley, N. Y. Filed July 13, 1917. Serial No. 180,332. 3 Claims. (Cl. 88—2.4.)



1. A range finder comprising a mirror, two similar objective lenses at equal focal distances from said mirror,

said mirror being half transparent and half reflecting and arranged to reflect part of the image produced by one objective lens, and to occlude the same part of the image produced by the other objective lens, means for deflecting the position of the image produced by one of the lenses so that the visible portions of the two images may be brought into alinement, and means for magnifying the visible portions of the said images.

1,381,454. GUARD-RAIL CHAIR. WILLIE L. DAUGHTRY, Orlando, Fla. Filed Nov. 17, 1920. Serial No. 424,709. 1 Claim. (Cl. 238—20.)

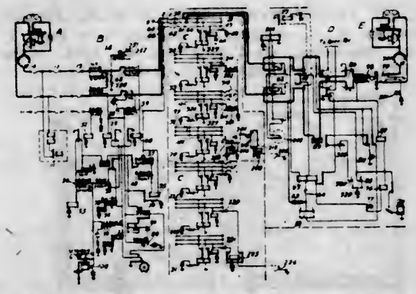


In a guard rail chair of the type described, a base-member having a stop-shoulder for the base of the track-rail, and an upstanding lug spaced off from said stop-shoulder and having an undercut recess receiving a lateral edge of the base of the guard-rail, said upstanding lug also having a slot in its inner wall above the undercut recess, said slot tapering longitudinally toward one end, a clamp having arms at its ends adapted to extend laterally of said upstanding lug and retain said clamp against longitudinal displacement, and a key adapted to be received by the slot of said upstanding lug and tapering longitudinally to coöperate with the corresponding taper of said slot for wedging the key against said clamp and said clamp against the guard rail.

1,381,455. TREATMENT OF RUBBER LATEX. SAMUEL CLELAND DAVIDSON, Belfast, Ireland. Filed Feb. 24, 1920. Serial No. 360,833. 4 Claims. (Cl. 18—50.)

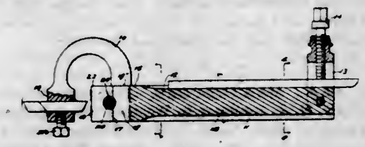
1. In the coagulation treatment of rubber latex which, while still in perfectly fresh condition after being tapped, has been preservatively treated with an alkalized phenol or phenoloid, the employment of a coagulating fluid, consisting of an acidified aqueous solution of a soluble salt of magnesium for effecting the coagulative separation of the raw rubber therefrom.

1,381,456. AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. GERALD DEAKIN, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1919. Serial No. 289,197. 12 Claims. (Cl. 179—27.)



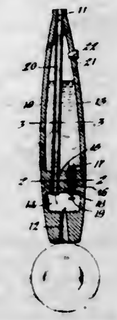
1. In a telephone exchange system, subscribers' lines, trunk lines, an automatic switch for selecting any of said lines, means for placing a given electrical condition on said subscribers' lines, means for placing a different electrical condition on the trunk lines, means responsive to said electrical conditions for controlling the operation of said automatic switch, and means for automatically changing the condition on said trunks to correspond to the electrical condition on said subscribers' lines to render said trunks of the same identity as the subscribers' lines.

1,381,457. TOOL-HOLDER. MAURICE H. DERRINGER, Philadelphia, Pa. Filed May 1, 1920. Serial No. 378,257. 3 Claims. (Cl. 29—98.)



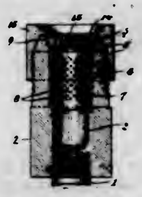
1. A tool holder comprising a shank, slotted in a plane parallel with the longitudinal axis of said shank, and having a socket passing through said shank, at right angles to the longitudinal axis of the shank and to the rear of and in communication with said slot, a gooseneck fitted to said socket, said gooseneck forming a tool support and a bolt passing through said shank in advance of said socket for clamping the gooseneck with respect to said shank.

1,381,458. BUBBLE-PIPE. JOHN E. DORRIS, Buffalo, N. Y. Filed June 15, 1920. Serial No. 389,250. 4 Claims. (Cl. 46—31.)



1. A soap bubble pipe comprising a main reservoir for soapy water, a supplemental chamber disposed in substantial alinement with said main reservoir and having an outlet passage, a diaphragm separating said reservoir from said supplemental chamber and having a passage therein connecting the latter and said reservoir, a gravity valve controlling said passage, and an air tube extending through said reservoir and communicating with said supplemental chamber.

1,381,459. LIQUID-FUEL BURNER. DANIEL E. ERICKSON, Mamaroneck, N. Y., assignor to Todd Shipyards Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,505. 2 Claims. (Cl. 299—120.)



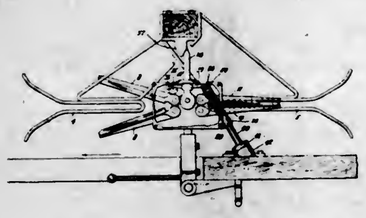
1. The combination in a liquid fuel atomizer of a nozzle comprising an integral body portion having an end recess

and a bore of two, succeeding diametrical dimensions, whereof the forward dimension exceeds the rearward dimension, a perforated cylinder having one open end and a closure plate at its other end, said plate co-acting with the nozzle end to comprise a chamber for the reception of fuel prior to its emission, said plate centeringly engaging in the aforesaid recess, and said cylinder at its open end engaging the rearward or smaller bore-portion of the body portion of the nozzle, whereby an annular chamber for fuel passage is comprised between the perforated cylinder and larger bore-portion, close to the fuel reception chamber, and means of communication between said annular chamber and fuel reception chamber.

1,381,460. MAGNET-CORE. JONATHAN W. HARRIS, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,692. 3 Claims. (Cl. 175—21.)

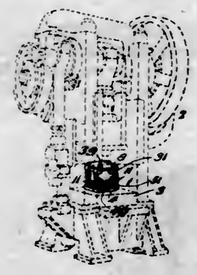
2. The method of making magnet cores which consists in reducing electrolytic magnetic material to the form of particles, annealing said particles, flattening said particles, coating said particles with insulating material, and submitting a mass of said particles to pressure sufficient to compress the mass into a self-sustaining solid.

1,381,461. RAILWAY MAIL-TRANSFER DEVICE. CARL HARTMANN, Mount Vernon, N. Y., assignor of one-half to John H. Faust, Mount Vernon, N. Y. Filed Jan. 6, 1920. Serial No. 349,667. 14 Claims. (Cl. 258—16.)



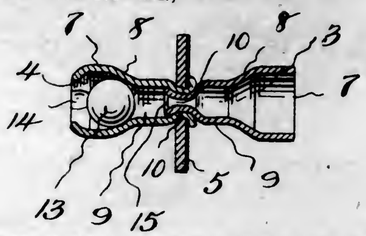
1. In a parcel transfer device, in combination, a pair of parcel-supporting jaws pivotally mounted to open and close, a separate pair of parcel-supporting jaws pivotally mounted adjacent said first mentioned jaws to open and close, and a trip lever having separate operative connections with the members of each pair.

1,381,462. APPARATUS FOR MANUFACTURING WASHERS. MARTIN K. HENCH, Camden, N. J., assignor of one-half to Leon G. Buckwalter, Merchantville, N. J. Filed Dec. 31, 1919. Serial No. 348,546. 19 Claims. (Cl. 164—32.)



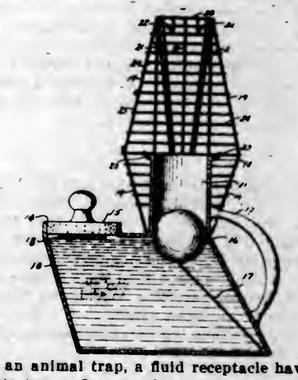
1. A portable apparatus for making washers and adapted to be placed in a press, comprising a fixed punch, a movable punch, a head in which said movable punch is mounted, a die carried by said head, an upper and a lower stripper carried by said head, and means to effect the relative movement between said fixed punch and the movable punch and die.

1,381,463. CHECK-VALVE. RAYMOND M. HOTCHKISS, New Haven, Conn., assignor of one-third to Peter S. Matthews and one-third to J. W. Fawcett, New Haven, Conn. Filed Nov. 28, 1919. Serial No. 341,089. 12 Claims. (Cl. 251—121.)



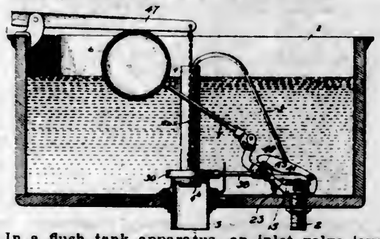
7. A valve casing comprising a tubular body of drawn sheet material having a reduced neck, a collar at one end of said reduced neck and a valve confined within the enlarged portion at the other end of said body.

1,381,464. ANIMAL-TRAP. FREDERIC HULSMANN, Pelham, N. Y. Filed Oct. 9, 1920. Serial No. 415,866. 8 Claims. (Cl. 43—66.)



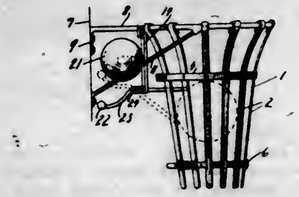
2. In an animal trap, a fluid receptacle having an opening in its top, a float to close said opening when the receptacle is filled with fluid, and a vertically arranged runway above the float, said runway being provided with means by which the animal may climb to the upper entrance of the runway, and with prongs to prevent the retreat of the animal from the runway.

1,381,465. FLUSH-TANK. WILLIAM RALPH HURSEY, Asheville, N. C., assignor of one-fourth to Basil H. Oates, Tuscaloosa, Ala. Filed Sept. 24, 1919. Serial No. 326,017. 13 Claims. (Cl. 4—5.)



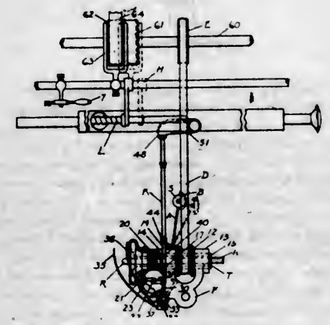
2. In a flush tank apparatus, an inlet valve lever, an outlet valve lever, a latch controlling the latter, and a float lever having a part adapted to engage either said inlet valve lever or latch.

1,381,466. BASKET-BALL GOAL-INDICATOR. RICHARD JACKSON, Jr., San Francisco, Calif., assignor of one-third to Allyn R. Reese and one-third to James W. Douglas, Denver, Colo. Filed Feb. 1, 1921. Serial No. 441,581. 6 Claims. (Cl. 116—67.)



1. In a basket ball basket comprising a solid ring and a flexible basket depending therefrom, a goal indicator comprising a frame secured to said ring, a bell supported in said frame and a lever pivoted in said frame, one end of said lever extending into the basket, the other end adapted to strike the bell.

1,381,467. STOP-MOTION FOR COMBS. CHARLES E. JEWETT, North Andover, and FRED FITZGERALD, Lawrence, Mass. Filed Feb. 2, 1920. Serial No. 355,541. 4 Claims. (Cl. 192—116.)



4. In a comb having stopping means, trigger mechanism to hold such stopping means out of action, a belt, and a connecting rod attached to the trigger mechanism, the combination of a nose fixed to said connecting rod, a rocker arm having a finger adapted to engage said nose, and a contact member carried by the free end of the rocker arm in position to rest against said belt.

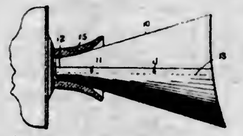
1,381,468. COMPOSITION OF EDIBLE FATS. JOHN HARRIS JONES, Boundbrook, N. J. Filed Dec. 26, 1917. Serial No. 208,805. 5 Claims. (Cl. 99—11.)

4. As an article of manufacture, animal fats and edible oils churned to congeal and admixed with an edible vegetable material having the flavor of butter.

1,381,469. PROCESS OF TREATING OILS AND FATS. JOHN HARRIS JONES, Boundbrook, N. J. Filed Dec. 26, 1917. Serial No. 208,806. 4 Claims. (Cl. 99—11.)

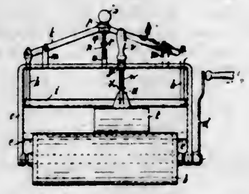
4. The process of producing a composition of fat matter which consists in churning fats and oils with an impregnated starch having the flavor of butter produced by lactic fermentation, said admixture being made at a temperature lower than the temperature of the fat having the highest melting point.

1,381,470. TELEPHONE-MUFFLER. MARY E. KELLEHER, Rutland, Vt. Filed Oct. 26, 1920. Serial No. 419,633. 1 Claim. (Cl. 179—188.)



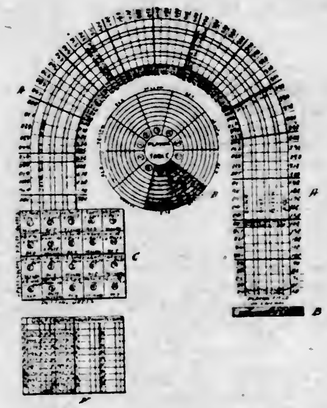
A telephone muffler comprising a hollow generally cone-shaped body formed of springy material and in a single piece, said body being of constant diameter in its middle portion, having its smaller end provided with overlapping meeting parts to render it readily adjustable, and its larger end also provided with overlapping parts, said larger end being shaped to fit against the face and around the mouth of the user.

1,381,471. MACHINE FOR GLOSSING LINEN AND THE LIKE. JAKOB KELLER, Zurich, Switzerland. Filed May 20, 1920. Serial No. 382,896. 5 Claims. (Cl. 68—9.)



1. A glossing machine comprising a frame, a rod slidably disposed in the frame, a screw spindle on said frame, operating connection between said spindle and rod, a glossing body adjustably and detachably mounted on said rod, and frame engaging means carried by said glossing body for operative positioning thereof.

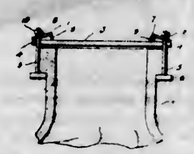
1,381,472. GAME. HERMON H. KINSMAN and WILLIAM M. GAYLOR, New York, N. Y. Filed Oct. 9, 1919. Serial No. 329,483. Renewed Aug. 20, 1920. Serial No. 404,958. 2 Claims. (Cl. 46—21.)



1. In a game of the character set forth, a playing field subdivided into spaces which are consecutively numbered, a putting green consisting of a rectangular field subdivided into spaces which are separated by a divisional line, the spaces upon opposite sides of the divisional line being

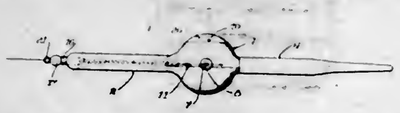
correspondingly designated and bearing corresponding indicating matter and numbers, one set of spaces being further designated by the plus sign and the other set of spaces being designated by the minus sign.

1,381,473. JAR-CLOSURE. A C KNAPP, Kewanee, Ill. Filed Jan. 17, 1920, Serial No. 352,047. Renewed Oct. 23, 1920. Serial No. 419,072. 3 Claims. (Cl. 215—88.)



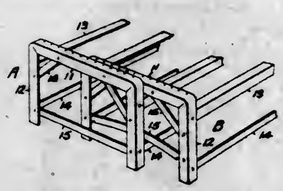
1. A jar closure including the neck of a jar having a flange, a cover resting on said neck, elements engaging the shoulder and passing through the cover, and locking elements carried by said elements and adapted to be turned against the cover.

1,381,474. PHOTO-ELECTRIC CELL, METHOD OF AND MEANS FOR MAKING THE SAME. JAKOB KUNZ, Urbana, Ill., assignor to Board of Trustees of The University of Illinois, Urbana, Ill., a Corporation of Illinois. Filed Aug. 24, 1918. Serial No. 251,345. 18 Claims. (Cl. 250—34.)



12. In a cell of the class described, a closed chamber of substantially spherical form having an interior coating of light sensitive alkili metal except for a small portion forming a window, and a flat screen electrode lying at the center of the chamber and at substantially right angles to the light rays admitted through the window whereby a substantially uniform field is formed between the coating and the screen.

1,381,475. COUCH-BED CONSTRUCTION. ARTHUR F. KUNZE, Montreal, Quebec, Canada. Filed June 29, 1917. Serial No. 177,642. 4 Claims. (Cl. 5—46.)



1. In couch bed construction, a pair of telescopically arranged parts, and a brace on each part, said braces being disposed transversely of one another and arranged and formed for engagement at both limits of telescopic movement to lock the parts.

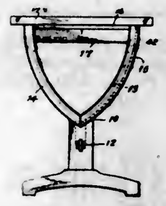
1,381,476. DETACHABLE BASKET-CARRIER. JOHN P. H. LANE, Harriman, Tenn. Filed Sept. 20, 1920. Serial No. 411,390. 2 Claims. (Cl. 217—125.)

1. A basket carrier of the character described, comprising a pair of transverse carrying members, spaced apart, having vertical side portions, extending upwardly, crimped foot rests at each lower corner of the transverse carrying members, hook barbs, slightly projecting from the outer surface, at the upper ends of the said transverse carrying members, adapted to engage the basket rim, in a clinging manner; side binding straps, adapted to pivotally engage the transverse carrying members, immediately below the



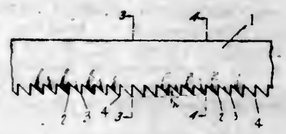
outer basket rim, wire carrier handles, adapted to engage each other and means for pivotally binding the transverse carrying members, the side binding straps, and the carrier handles together, substantially as shown and described.

1,381,477. DRAFTING-TABLE. VAINO LAURI, Seattle, Wash. Filed Dec. 6, 1920. Serial No. 428,572. 3 Claims. (Cl. 45—100.)



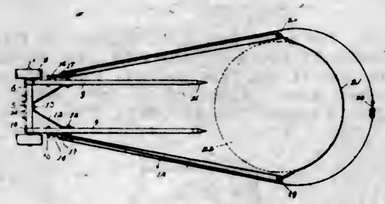
1. A drafting table comprising bifurcated side supports, a bar adapted to retain said side supports in spaced apart relation, a bifurcated bracket centrally mounted on said bar, a shelf mounted on the upper ends of said supports, a top pivotally mounted on said supports having transverse apertures disposed at both ends thereof, rollers rotatively mounted in said top below and adjacent to said apertures, segmental members disposed in angular grooves within said rollers, springs connecting said rollers and segmental members adapted to hold said segmental members against one wall and away from the opposite wall of said angular grooves, locking pawls pivotally mounted on said top arranged to engage notches in said segmental members, means for retaining said pawl in and out of engagement with said notches, toothed sectors pivotally secured to said top adapted to slidably move within hollow members of said side supports, and means for securing said top and sectors in a raised position.

1,381,478. HACKSAW-BLADE. AUSTIN M. LAWRENCE, Montague, Msss. Filed Nov. 12, 1920. Serial No. 423,567. 1 Claim. (Cl. 143—133.)



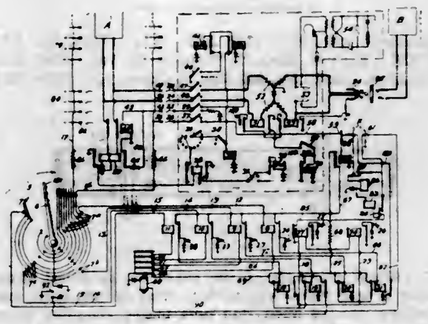
A hack saw blade comprising portions having corrugations extending laterally of the blade parallel to the depth of the blade and of a depth greater than that of a tooth, teeth formed on the portions of said blade farthest offset having cutting edges perpendicular to the depth of the blade, and teeth formed on the portions of said blade intermediate of the corrugated portions, said latter teeth extending beyond the offset teeth as the latter are fore-shortened by the corrugating.

1,381,479. HAY-TRUCK. ARTHUR LEGBAND, Scribner, Nebr. Filed June 3, 1920. Serial No. 386,291. 2 Claims. (Cl. 214—1.)



1. In a truck, a rear section and a forward section, said rear section having a pair of lifting prongs, means for forcing the lifting prongs through a stack, said forward section including a body portion, depending hook members carried by the body portion, clevises having connection with the prongs, and said hook members adapted to engage within the clevises for lifting the lifting prongs and supporting the same in spaced relation with the ground surface over which the truck is adapted to move.

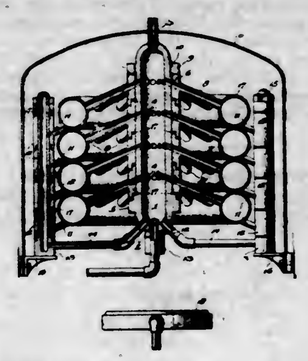
1,381,480. TELEPHONE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 17, 1917. Serial No. 149,223. 7 Claims. (Cl. 179—27.)



1. In a telephone system comprising a plurality of lines extending to a central office, means for impressing upon each line a characteristic number of electrical impulses for its identification, an extension circuit for said lines, a group of relays associated with said extension circuit, means for causing the successive impulses impressed upon an extended line to selectively effect the operation of any one of said relays independently of the action of any other relay of said group, and signals associated with said relays and arranged to be displayed under the control thereof.

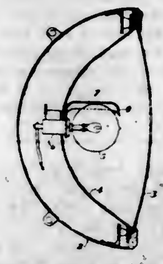
1,381,481. STEAM-GENERATOR. THOMAS J. MCDONALD, Blue Ridge, Ga. Filed July 19, 1920. Serial No. 397,216. 5 Claims. (Cl. 122—321.)

1. A steam generator comprising a central header or chamber having a water inlet, a steam outlet, and a plurality of series of ports in its side wall, a plurality of superposed units each including a sleeve, fitted about the central header, and an outer tubular member surrounding said sleeve and connected thereto by a series of radiating conduits, each sleeve having ports communicating with one of the series of ports in the side of the central header,



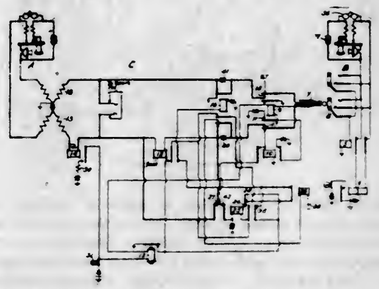
and means for conducting water from each tubular member to the central header.

1,381,482. SHADE FOR HEADLIGHTS. NEAL MCMILLAN, Ogden, Utah. Filed Nov. 10, 1920. Serial No. 422,980. 1 Claim. (Cl. 240—48.6.)



A shade for an automobile headlight, comprising a concavo-convex body furnished at its rear end with an integral straight flange extending from the concaved side thereof, the flange having an opening and also having an integral collar on the inner side thereof surrounding the opening and furnished with a tapped hole, a screw in threaded engagement with the tapped hole, the opening and the collar being intended to receive the body shell of an incandescent lamp which is engageable by said screw to positively prevent the shade from turning.

1,381,483. TELEPHONE-EXCHANGE SYSTEM. HARRY W. MACDOUGALL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1917. Serial No. 193,108. 12 Claims. (Cl. 179—58.)



8. In a telephone exchange system, in combination a telephone line, a link circuit having a talking conductor,

a relay in the link circuit energised upon connections thereof with a telephone line, a source of ringing current, a ringing relay when energised connecting the source of ringing current to the telephone line, a talking circuit relay, an energizing circuit therefor including a normally closed contact of the ringing relay completed upon the energization of the first relay when the telephone line is closed whereby the talking circuit relay is energised for disabling the initial energizing circuit of the ringing relay.

1,381,484. TOW-HOOK FOR STEAM-TUGS. THIES NAGEL, Hamburg, Germany. Filed Oct. 14, 1920. Serial No. 417,067. 2 Claims. (Cl. 114—217.)

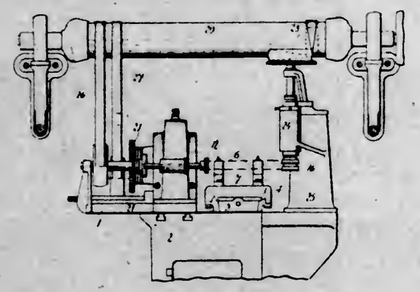


1. In a tow-hook for steam-tugs, in combination, a casing, a hook holder slidably arranged in the front end of said casing and having toothlike notches at its rear end, pawls engaging in said notches and located to swing outward for a liberation of said hook holder, a sleeve engaging over the free ends of said pawls, a link of adjustable length pivoted to said sleeve, an abutment-lever pivotally connected with the other end of said link and located to be operated upon the tow-hook being lifted at the event of a too high inclination of the steam-tug, and a hook on said hook holder to slip upon operation of said abutment-lever, substantially as and for the purpose set forth.

1,381,485. METHOD FOR THE REMOVAL OF VARNISH, LACQUER, ENAMEL, PAINT, AND SIMILAR COATINGS FROM ANY OBJECTS OR MATERIALS. GERALD H. MAINS, Detroit, Mich. Filed Dec. 6, 1920. Serial No. 428,666. 1 Claim. (Cl. 87—5.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

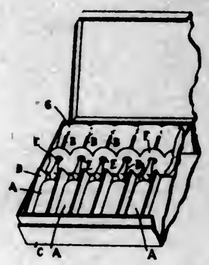
A method of removing varnish from varnished surfaces, consisting in applying to the varnish a coating of furfural and subsequently removing the loosened varnish.

1,381,486. MACHINE FOR FINISHING TURBINE-BLADES AND SIMILAR ARTICLES. WILLIAM HAMILTON MARTIN, Flushing, Netherlands. Filed Apr. 23, 1919. Serial No. 292,008. 8 Claim. (Cl. 29—33.)



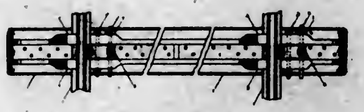
1. A machine for converting a length of turbine blade section bar into a complete blade, comprising a bed, a table reciprocating thereon, a blade holder adjustably mounted upon such table, the said holder being arranged so that the blade travels parallel to itself, rotary cutting means the position of which is fixed relatively to the bed and in relation to which the blade length is initially adjusted in order to be operated upon thereby at one end, and rotary cutting means adjustable in directions parallel to and transversely of the reciprocating table in order to operate upon the opposite end of the initially adjusted blade whatever its length.

1,381,487. PACKAGE FOR CONTAINERS OF PHARMACEUTICAL PRODUCTS AND THE LIKE. SANTIAGO PAGÉS MARUNY and JUAN BAUTISTA PAGÉS MARUNY, Barcelona, Spain. Filed Aug. 6, 1920. Serial No. 401,704. 4 Claims. (Cl. 206—63.2.)



1. A package for containers of pharmaceutical products and the like, including means for indicating the removal of and preventing substitution for a container, originally packed, comprising a band having openings through which portions of the containers extend secured in the package, and means to prevent removal of a container other than by breaking a portion of said band.

1,381,488. RAILWAY-TIE AND RAIL-LOCKING DEVICE. SAMUEL MORANO, Wendell, W. Va. Filed Jan. 15, 1920. Serial No. 351,554. 1 Claim. (Cl. 238—62.)

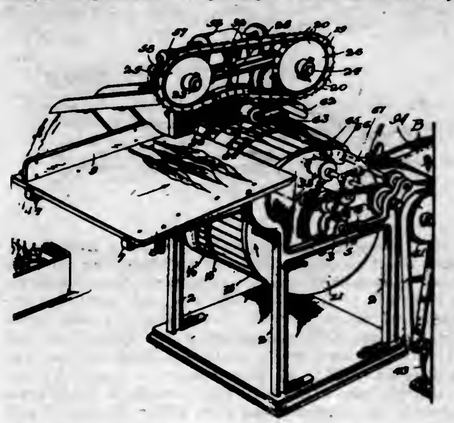


A railway cross tie of the character described, comprising a base plate, longitudinal ribs, spaced apart and extending upward upon said base plate; clamping members forming the upper portion of the longitudinal, vertical ribs, adapted to receive and rigidly clamp the inner and outer sides of the base flanges of the track rails respectively; locking clamps, pivotally mounted between the longitudinal ribs, adapted to engage the inner and outer sides respectively of the base flanges of the track rails; a wedge-shaped locking key, extending transversely through the vertical ribs of said tie, and adapted to engage the lower portion of the locking clamp, and adapted to apply binding pressure on the track rail flange; a safety key, adapted to engage the locking key and securely bind it within the vertical ribs, all substantially as described, shown, and for the purposes specified.

1,381,489. TOBACCO-LEAF STEMMING, STRAIGHTENING, AND BOOKING MACHINE. JOHN O. MORRIS, Washington, D. C. Filed Mar. 30, 1921. Serial No. 456,841. 54 Claims. (Cl. 131—57.)

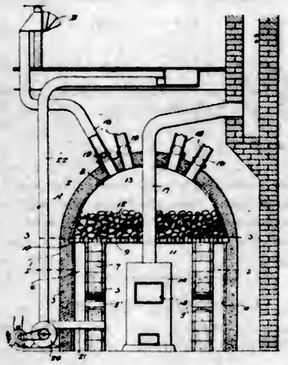
1. In tobacco stemming machine, coöperating stripping means, one of which comprises a drum constituting a leaf carrier successively positioning individual leaves in stripping position, and stem grapping means engaging and drawing each leaf stem as the leaves arrive at the stripping position.

52. In a tobacco stemming machine, stripping means, stem gripping means in combination therewith, leaf straightening means comprising mechanism releasably



holding the butt end of the leaf and including a pair of members engaging the apex end of the leaf and drawing it away from the butt end, and leaf booking means.

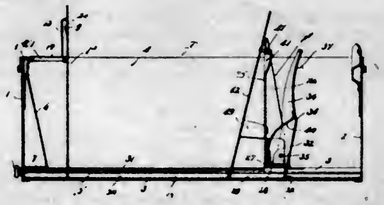
1,381,490. HEATING SYSTEM. THOMAS M. OFFUTT, Connersville, Ind., assignor of one-fifth to Erwin H. Cushing, Connersville, Ind. Filed Oct. 9, 1920. Serial No. 415,904. 2 Claims. (Cl. 126—99.)



1. The herein described system comprising a housing including a body and a top, a lining of heat non-conducting material on the interior wall of said housing, an interior wall spaced from the body of the housing and forming a chamber between itself and said body, a grate separating the body of the housing from the top and resting upon the said interior wall, a layer of heat retaining material on said grate, a pipe connecting the interior of the top with the room to be heated, means within the space formed by the interior wall for changing the temperature of the air therein and means for introducing air into said space.

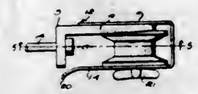
1,381,491. FILING CABINET OR TRAY. ENOCH OHNSTRAND, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed Nov. 17, 1919. Serial No. 338,587. 11 Claims. (Cl. 129—16.)

1. A cabinet or filing tray having therein a follower comprising a vertically disposed member adapted to be moved longitudinally along the tray, means for locking said member in any of its adjusted positions, a guard plate connected in swinging relation to the upper end of said member, in such manner as to permit the lower portion of said plate to be moved toward and away from said member.



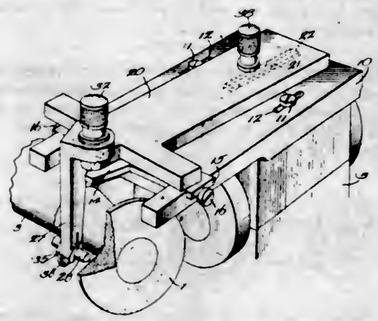
8. A cabinet or filing tray having therein a follower comprising a vertically disposed flanged member adapted to be moved longitudinally along the tray, a rack member disposed in the bottom of said tray, a guiding member secured to the lower edge of said flanged member and slidable within said rack member, and a pawl carried by said flanged member and coöperating with said rack for locking said flanged member in any of its adjusted positions.

1,381,492. GUIDE FOR WINDING-MACHINES. JOHN A. OLSON, Paterson, N. J. Filed Aug. 24, 1920. Serial No. 405,578. 5 Claims. (Cl. 242—157.)



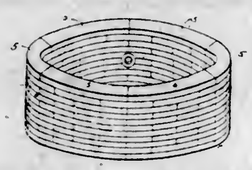
2. A guide for winding machines comprising a tension wire, a bracket swiveled on the end of said tension wire, a substantially U-shaped plate having one arm secured to said bracket and its opposite arm arranged parallel to said bracket and spaced therefrom, said bracket and plate being provided with alined openings, said bracket being further provided with a depression in one face thereof, concentric with the opening therein, a shaft arranged in said openings, and a roller rotatably mounted on said shaft having a portion of one end thereof arranged in said depression.

1,381,493. TOOL-DRESSING DEVICE. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1919. Serial No. 283,748. 10 Claims. (Cl. 125—11.)



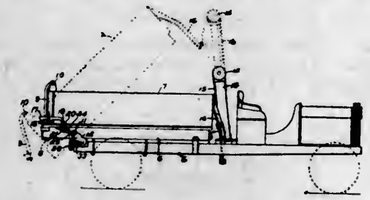
5. A tool dressing device having a table, a templet attached to the table, a slide movable upon the table, a guide pin attached to the slide for following the templet, a dressing tool, and an arm carrying the dressing tool, said arm being mounted upon the slide and being angularly adjustable about an axis perpendicular to the plane of the table.

1,381,494. DRUM. CHARLES G. OLSEN, Portland, Oreg. Filed Nov. 7, 1918. Serial No. 261,501. 4 Claims. (Cl. 84—411.)



2. A drum shell comprising a plurality of endless courses united side to side to form a composite unitary structure, each course being formed from a plurality of sections united end to end.

1,381,495. UNLOADING APPARATUS. HENRY PEARSON, Brightwood, Mass., assignor, by mesne assignments, to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 1, 1918. Serial No. 237,683. 10 Claims. (Cl. 298—23.)



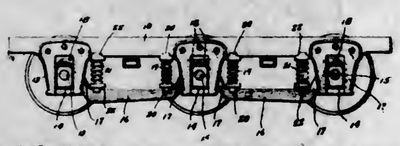
1. In a load-discharging apparatus, the combination of a dumping receptacle having a discharge opening, a gate normally closing said opening, and means including a normally unyielding spring and consequent upon movement of said receptacle to close said gate.

1,381,496. BOOSTER-MOTOR TRAILER-TRUCK. HARRY M. PFLAGER, St. Louis, Mo. Filed Sept. 10, 1919. Serial No. 322,861. 10 Claims. (Cl. 105—133.)



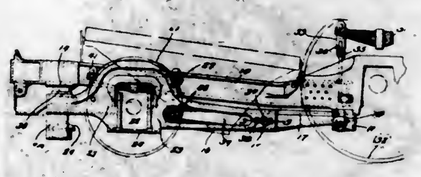
1. A radially movable trailer truck frame for locomotives, and a bearing on said truck frame for a booster motor support.

1,381,497. SIX-WHEEL CAR-TRUCK. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Feb. 5, 1920. Serial No. 356,545. 14 Claims. (Cl. 105—195.)



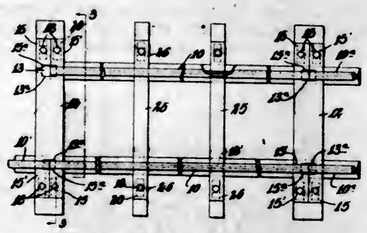
1. A flexible support for railway car trucks comprising substantially rigid equalizing members supported upon the journal boxes associated with the truck, and a pair of springs interposed between each equalizing member and the truck frame, one spring of each pair being located between the centers of said equalizing members and the ends thereof, said springs having different load carrying capacities.

1,381,498. LOCOMOTIVE TRAILER-TRUCK. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Oct. 6, 1920. Serial No. 414,981. 8 Claims. (Cl. 105—174.)



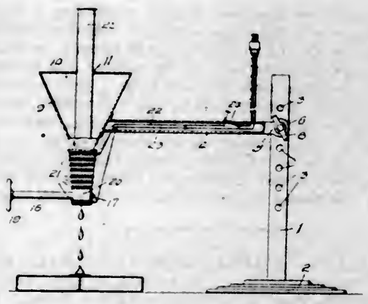
1. A locomotive trailer truck including a truck frame and a wheel carrying axle, means for supporting the truck frame upon said axle, which supporting means is located in front and to the rear of said axle, that portion of the supporting means in front of the axle including equalizers that are fulcrumed on the trailer truck frame and which forms part of the main equalizing system, and said trailer truck frame being adapted to receive its load at a point near its forward end in front of the fulcrum points of the equalizers and at points to the rear of said axle.

1,381,499. RAILROAD-TRACK CONSTRUCTION. JOSEPH Y. PISCEK, Gallup, N. Mex. Filed Jan. 6, 1921. Serial No. 435,374. 5 Claims. (Cl. 238—46.)



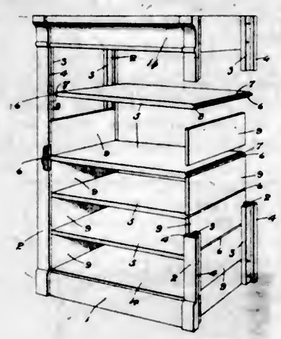
1. In combination, track rails having laterally projecting ribs at their ends, ties on which the rail ends rest, and blocks secured on said ties and having members projecting over the feet of the rails on opposite sides of the said ribs.

1,381,500. ELECTRIC WAX-HEATER. RUSSELL F. READER, East St. Louis, Ill. Filed Sept. 15, 1919. Serial No. 323,814. 3 Claims. (Cl. 219—43.)



1. An electric wax heater comprising a base, an upright carried by the base, a wax receiving receptacle, a supporting arm fixed at one end to said receptacle, means for adjustably connecting the opposite end of said supporting arm to said upright, an electric heater surrounding the lower end of said wax receiving receptacle, a valve for controlling the flow of heated wax from the receptacle, and a switch for opening and closing the electric circuit to the heater.

1,381,501. SHELVING CONSTRUCTION. MORRIS REIGERSBERG, Grand Rapids, Mich., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Sept. 17, 1920. Serial No. 410,852. 7 Claims. (Cl. 45—78.)



1. A shelving construction comprising a base and top and four pilasters connecting the base and top at the corners thereof, each of said pilasters comprising an inwardly extending portion from which a laterally extending portion projects inwardly, a plurality of horizontally spaced shelves located between the base and top, each shelf at each end being formed with a tongue extending the width thereof and centrally located between the upper end lower sides of the shelf, the projection of each tongue from a shelf being substantially equal to the projection of said laterally extending portion from the pilaster, and spacers located between adjacent shelves and against the inwardly extending portions of the pilasters and bearing against the tongues of the shelves above and below said spacers to interlock therewith, substantially as described.

1,381,502. HOOP. ROBERT REINHARD and JOHN C. SCHMITT, Chicago, Ill. Filed Sept. 11, 1920. Serial No. 409,733. 1 Claim. (Cl. 217—93.)



A hoop of the character described, composed of sheet metal, with portions of the metal partially severed in a triangulated manner so as to provide a plurality of outwardly bent prongs arranged in pairs, with the apices of the prongs of each pair initially disposed in opposite directions, the prongs being bent at an intermediate point so as to have the free ends disposed toward the openings formed by said partially severed metal to constitute gripping portions.

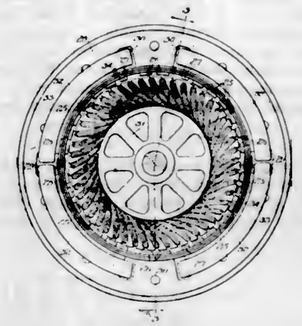
1,381,503. PROCESS OF PRODUCING PHTHALEINS. ALFRED L. RISPLER, St. Louis, Mo., assignor to Monsanto Chemical Works, St. Louis, Mo., a Corporation of Missouri. Filed May 10, 1920. Serial No. 380,412. 7 Claims. (Cl. 23—24.)

1. A process for producing phthaleins, characterized by condensing phthalic anhydrid with a phenol in the presence of an anhydrous aromatic sulfonic acid, whereby the sulfonic acid acts as a condensing as well as a dehydrating agent.

1,381,504. TREATING ROSIN. FRANCIS M. ROGERS and CLAUDE P. MCNEIL, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Aug. 31, 1920. Serial No. 407,227. 3 Claims. (Cl. 203—4.)

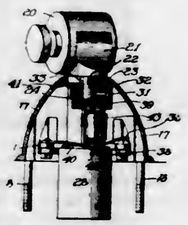
1. The process of treating rosin to increase its grease-setting properties which comprises digesting it at a temperature sufficiently high to convert the abietic acid content of the rosin into grease-setting form and which is below the distillation temperature of its abietic acid content corresponding to the pressure of digestion.

1,381,505. DYNAMO-ELECTRIC MACHINE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Aug. 8, 1917. Serial No. 185,009. 6 Claims. (Cl. 172—120.)



3. In a motor, a stator having a plurality of pole-teeth of unequal angular width and a stationary squirrel-cage embraced thereby through which said pole teeth pass.

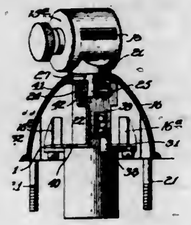
1,381,506. PHONOGRAPH CONTROL DEVICE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Dec. 3, 1919. Serial No. 342,249. 8 Claims. (Cl. 192—116.)



1. In combination with a record support, a pivotally mounted reproducer arm coöperating therewith and means for rotating said support, a conduit section connected with the reproducer arm in axial alinement with its pivotal center and movable with said arm, a movable slide, en-

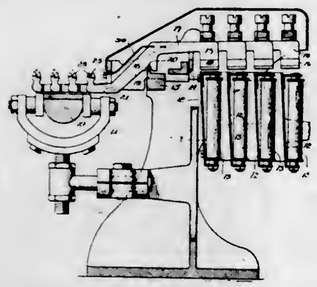
gaging means mounted upon said conduit section and capable of engaging said slide only as the tone-arm approaches the limit of its movement in either direction, and means for starting and stopping the rotation of the support by the movement of said slide.

1,381,507. PHONOGRAPH CONTROL DEVICE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Dec. 3, 1919. Serial No. 342,250. 5 Claims. (Cl. 192—116.)



1. In a phonograph, in combination, a rotatable record support, a movable reproducer arm, a conduit section movable therewith, a slide, engaging means carried by the movable conduit section capable of engaging the slide only as the reproducer arm approaches the limits of its movement, a brake capable of engaging the record support, and a brake actuating member engaged by the slide in its movement to disengage the brake from the support.

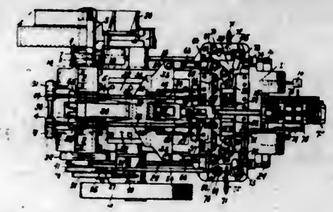
1,381,508. FINGERING DEVICE FOR SELF-PLAYING STRINGED INSTRUMENTS. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,459. 2 Claims. (Cl. 84—11.)



1. A fingering device for self-playing stringed instruments of the viol-class, said device being provided with a tapering string-engaging notch, the members forming the sides thereof being transversely offset with respect to each other and overlapping at the bottom of the notch.

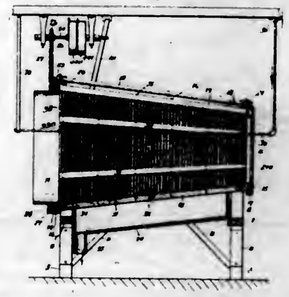
1,381,509. BOLT-HEADING MACHINE. FREDRICK J. SCHWIMMER, Toledo, Ohio, assignor to Howard Iron Works, Buffalo, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,268. 27 Claims. (Cl. 10—16.)

1. In a machine of the class described, a set of work clamping members, a set of work shearing members, means operable to impart movements to the members of said sets to cause the clamping members to clamp the stock when the shearing members are in retracted position, and vice versa, and means automatically operable to permit an



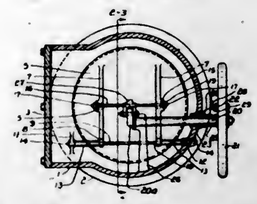
initial work releasing movement of the clamping members when the operating means is at a predetermined point in its movement.

1,381,510. VEGETABLE-WASHER. OGDEN S. SELLS, Buffalo, N. Y., assignor to Peerless Husker Company, Buffalo, N. Y., a Copartnership. Filed Aug. 13, 1919. Serial No. 317,137. 7 Claims. (Cl. 146—14.)



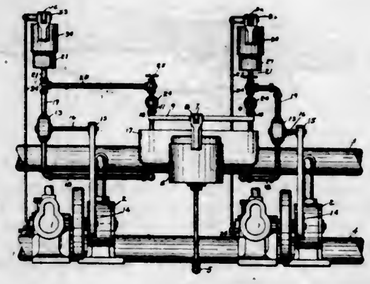
1. A vegetable washer comprising a rotatable conical screen, and a longitudinal cutter arranged within the screen adjacent to the inner surface thereof and adapted to sever particles caught thereon.

1,381,511. VALVE. HARRY F. SMITH, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed June 16, 1917. Serial No. 175,199. 14 Claims. (Cl. 251—10.)



7. In a quick opening valve comprising a casing having a valve seat therein, a disk valve having two parallel transverse ribs on its back, two other ribs on the back of the valve disk and perpendicular thereto, a spring bar mounted in the casing and passing through the perpendicular ribs, a second spring bar mounted in the transverse ribs and parallel to the first spring bar, a valve stem extending through the casing substantially parallel to the valve disk the inner end thereof extending at right angles to the main part of the stem, a link connecting the inner end of the valve stem to the second spring bar, the link and inner end of the valve stem constituting in effect a toggle so arranged that their middle joint is past center when closing of the valve to its seat is completed.

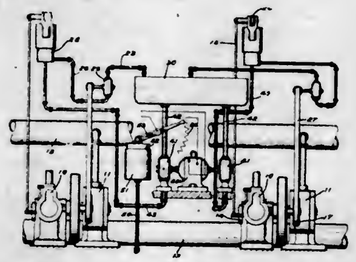
1,381,512. SPEED-GOVERNING MECHANISM FOR PRIME MOVERS. HARRY F. SMITH, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 1, 1917. Serial No. 194,165. 19 Claims. (Cl. 103—95.)



1. A regulating device for a plurality of prime movers comprising in, combination, pressure operated means actuated by each separate prime mover for insuring a predetermined speed thereof, and other pressure operated means coöperating with said first named means for insuring a uniform speed of operation of all the prime movers.

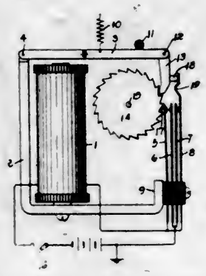
19. A speed regulating device for pumps, blowers, or the like, comprising, in combination, a plurality of pumps, blowers, or the like, having a common delivery main; a prime mover for driving each pump; and speed controlling means associated with the prime movers; said means comprising; a pressure actuated governor associated with each prime mover; pump mechanism driven from an independent power source and tending to maintain constant the pressure actuating each governor; a pump, associated with each prime mover, and variably actuated thereby, said last named pumps each tending to vary the pressure actuating its associated governor in accordance with variations in the speed of operation of its associated prime mover; and mechanism responsive to pressure conditions in the delivery main, tending to vary the pressure actuating all of the governors, said pressure responsive means tending to vary the actuating pressures in unison and in accordance with varying pressures within the delivery main; the two pump mechanisms and the pressure responsive mechanism when acting in coöperative relation controlling the speed of operation of each prime mover individually, the speed of operation of all the prime movers together, and the possible maximum and minimum speed of operation of all said prime movers.

1,381,513. SPEED REGULATION. HARRY F. SMITH, Dayton, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 8, 1920. Serial No. 364,213. 10 Claims. (Cl. 103—95.)



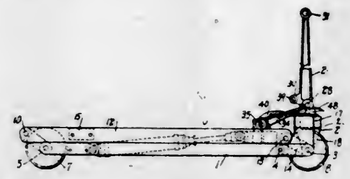
1. A speed regulating mechanism for a plurality of pqrime movers; comprising in combination governing means for each prime mover, said means being actuated by the prime mover with which it is associated; and a coöperating governing means for each prime mover, all such coöperating means being actuated by an independent and common power source; the sets of governing means being adapted when operating in coöperative relation to control the speed of each prime mover individually and of all the prime movers in unison.

1,381,514. ELECTROMAGNETIC STEP-BY-STEP MECHANISM. CHARLES P. SOPER, Maplewood, N. J., and JOHN A. HALL, Bayside, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 29, 1919. Serial No. 327,123. 3 Claims. (Cl. 172—126.)



1. In an electromagnetic step-by-step mechanism, a ratchet member, means for stepping said ratchet member forward, an electromagnetic means for operating said stepping means, mechanical means actuated when said electromagnetic means is rendered inoperative to restore said stepping means to normal position, means for holding said ratchet member after it has been stepped forward, means actuated by said stepping means in dropping into engagement with a ratchet tooth to actuate said electromagnetic operating means, and means actuated by said holding means in dropping into engagement with a ratchet tooth to render inoperative said electromagnetic means.

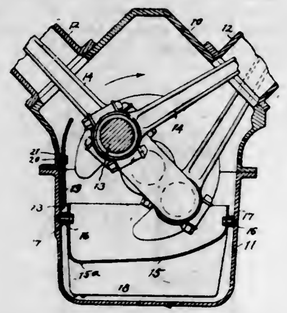
1,381,515. LIFTING-TRUCK. WILLIAM STUEBING, Jr., Cincinnati, Ohio, assignor to The Stuebing Truck Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 16, 1916. Serial No. 126,014. 7 Claims. (Cl. 254—10.)



3. In a lifting truck, the combination with a wheeled base frame and an elevating frame and a pivoted steering handle, of means for connecting said elevating frame to said handle to elevate said elevating frame, comprising a manually operable member connected to one of said parts and tending to move out of connected relation to the other, into a position where it will not interfere with the movement of said handle when used for steering, in combination with treadle and locking means, the treadle means moving said member into position for effecting a connection with said other part and said locking means positively locking the elevating frame to the base frame to prevent descent, before the manually operable member and the other connecting part are disconnected; said

treadle means also being capable of releasing said elevating frame from its locked position that the same may descend, said treadle and locking means being independent of the handle.

1,381,516. INTERNAL-COMBUSTION ENGINE. WILLIAM R. STRICKLAND, Cleveland, Ohio, assignor to The Peerless Motor Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 16, 1918. Serial No. 254,271. 5 Claims. (Cl. 184—6.)



1. In combination with an internal combustion engine having a rotating crank-shaft and a crank-case, of a shield in the form of a pan between the crank-shaft and the bottom of the crank-case, said pan being closed on all four sides and extending along but spaced from the walls of the crank-case, and said pan having at substantially the lowest part thereof one or more drain openings so that any oil caught in the pan will drain therefrom.

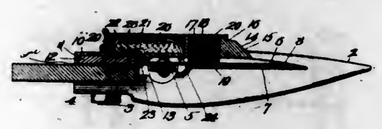
1,381,517. PENCIL. JULIUS SWANBERG, Chicago, Ill., assignor to Fabart Instrument Company, a Corporation of Illinois. Filed Nov. 10, 1919. Serial No. 336,852. 8 Claims. (Cl. 120—18.)



1. A pencil of the class described comprising a casing, parallel longitudinal walls forming pockets in the casing, and a lead-feeding mechanism resiliently engaging the casing and slidable between the walls.

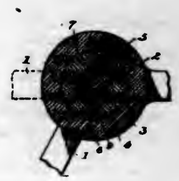
8. In a pencil, a tip, a tubular guide integral with said tip and extending into the interior of the pencil, slits in the inner end of said guide forming tongues, said tongues being bent toward each other and the concave surfaces of the inner ends of said tongues being beveled to form a funnel shaped opening.

1,381,518. SICKLE-BEARING FOR MOWERS. JOHN L. TANDY, Tulsa, Okla. Filed July 21, 1919. Serial No. 312,240. 9 Claims. (Cl. 56—304.)



1. A sickle bearing secured to the finger bar of a mower and overlying the cutting mechanism thereof and provided with an inverted pocket, and a hard bearing plate fitting removably in said pocket to receive on its front edge the backward thrust of sickle sections of the cutting mechanism of the mower.

1,381,519. CHAIN. SAMUEL V. TENCH, Wilkes-Barre, Pa. Filed Oct. 25, 1920. Serial No. 419,368. 19 Claims. (Cl. 59—78.)

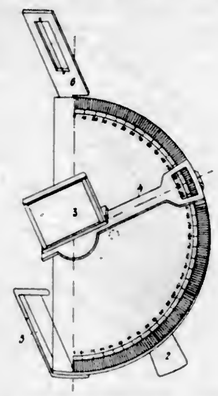


1. In a chain, the combination with links, each comprising a shank having a cross-head at one end thereof; of a knuckle at the opposite end of each shank; the knuckle having a bearing apefture therein, and formed with a longitudinally extending radial slot and a circumferential slot extending part way around the knuckle from the longitudinal slot, both slots adapted to communicate with the bearing; a bushing rotatably mounted in the bearing, the bushing being chambered longitudinally to form a seat for the cross-head of the adjacent link, which chambered portion is adapted to substantially register with the longitudinal slot in the knuckle, the bushing having a circumferential slot communicating with the chambered portion and adapted to substantially register with the circumferential slot of the knuckle; the shank of the next adjacent link being insertible laterally into the registering circumferential slots to bring the cross-head in line with the registered longitudinal slot of the head and the chambered portion of the bushing; and then being shiftable endwise to draw the cross-head through the longitudinal slot and seat it in the chambered portion of the bushing.

1,381,520. INSTRUMENT FOR MEASURING ANGLES. MARTIN AUGUST TÖNNESSEN, Bergen, Norway. Filed Oct. 31, 1918. Serial No. 260,525. 1 Claim. (Cl. 88—2.4.)

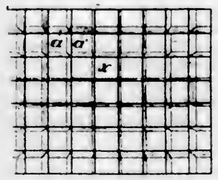
In an instrument for measuring angles, the combination of a member provided with a semi-circular scale, each half of which is divided into graduations corresponding in number to the degrees in a semi-circle, the zero points of the scale lying on diametrically opposite points, a mirror pivotally mounted at the center of curvature of the scale, devices mounted on the member and provided with sighting lines lying perpendicular to the member at zero points

of the scale and extending above the mirror so that they may be sighted upon one of two points, the angle between



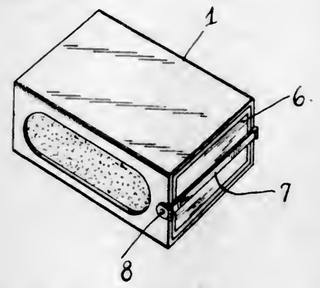
which is to be measured, and means associated with the mirror for indicating on the scale the actual angle which is to be measured.

1,381,521. CELL-DIAPHRAGM FOR X-RAY APPARATUS. SINCLAIR TOUSEY, Westhampton Beach, N. Y. Filed Apr. 23, 1919. Serial No. 292,136. 4 Claims. (Cl. 250—84.)



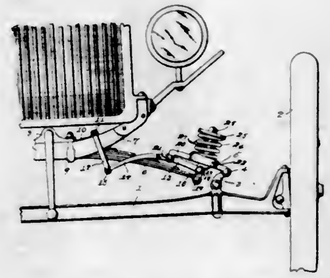
2. A cell diaphragm comprising two sets of strips crossing each other and inclined to the plane of the diaphragm to different degrees in respect to each other, said crossing strips each slitted to interlock, substantially as described.

1,381,522. MATCH-BOX HOLDER. FRANCIS VAN SENUS, Moline, Ill. Filed May 22, 1920. Serial No. 383,425. 1 Claim. (Cl. 206—33.)



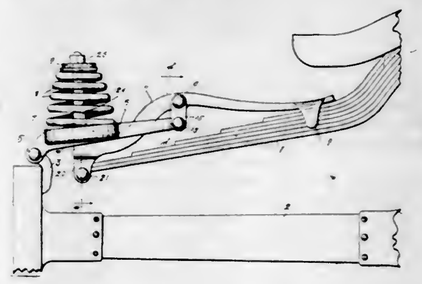
A match box holder comprising a casing having its ends open and one end having an inwardly extending flange, an end plate engaging said flange for closing the opening, a smaller plate having right angular flanges thereon for engaging the first plate, a spring connecting the two plates together, a latch bar hinged at one end to said box and fastening means for connecting the other end of the bar to the other side of the box with the bar extending across the open end of the holder for holding the match box therein.

1,381,523. SPRING SUSPENSION. GEORGE F. VOIGHT, San Francisco, Calif., assignor to Walter S. Burgess, Oak Park, Ill. Filed Mar. 3, 1919. Serial No. 280,214. 25 Claims. (Cl. 267—28.)



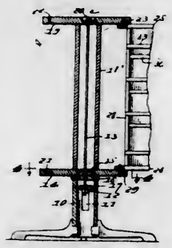
1. In combination, a rigid primary lever having a pivotal support for its outer end, a secondary lever having a relatively movable support for its inner end, a pivotal connection between the inner end of the primary lever and an intermediate part of the secondary lever, a resilient connection between other portions of said levers, and a shackle connection between the secondary lever and one end of the vehicle's leaf spring.

1,381,524. SHOCK-ABSORBER. GEORGE F. VOIGHT, San Francisco, Calif., assignor to Walter S. Burgess, Oak Park, Ill. Filed Apr. 28, 1919. Serial No. 293,119. 25 Claims. (Cl. 267—19.)



23. The combination with a vehicle having an axle and a leaf spring disposed above the axle and extending in a general direction therewith, of a secondary lever having an outer bifurcated end attached to the outer end of said leaf spring for supporting it and its inner end seated upon said leaf spring a distance inwardly from its outer end and supported thereby, means carried by said inner end of the lever engageable with the sides of said spring for preventing undue lateral movement of said end relatively to the spring, a primary lever having an intermediate section overhanging said outer end of the leaf spring and supporting upon its upper side a compression spring, a pivotal connection between the outer end of said primary lever and said axle at a distance outwardly from said outer end of the leaf spring, the inner end of said primary lever being disposed between an intermediate portion of said secondary lever and said leaf spring, a shackle connection between said inner end and said portion, and a connection between the outer end of said secondary lever and said compression spring for resiliently supporting it.

1,381,525. PHONOGRAPH-RECORD CABINET. WARREN M. WAGONER and JOSEPH W. VARNER, Piedmont, W. Va. Filed Feb. 9, 1921. Serial No. 443,620. 1 Claim. (Cl. 211—20.)



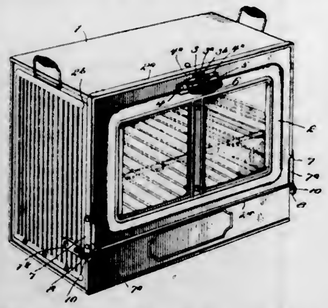
In a phonograph record cabinet, a hollow base having slots, a plate therein having wings projecting into the slots, a head supported above the base, a sleeve extending upwardly from the head, a head on the sleeve, a rod having a shoulder bearing against the upper head, the said rod projecting through the sleeve and through the lower head and through the plate, a nut threaded on the lower end of the rod, wings comprising rectangular frames, the upper and lower members of which project inwardly beyond the wings, means for oscillatably mounting the wings on the heads, vertical and horizontal partitions in the rectangular frame of the wings forming record receiving recesses on the two faces of the wings, and means extending over the recesses and anchored to the rectangular frame for guarding the said recesses.

1,381,526. FOOD PRODUCT. JOHN F. WATERS, Chicago, Ill. Filed Jan. 5, 1920. Serial No. 349,385. 2 Claims. (Cl. 99—11.)



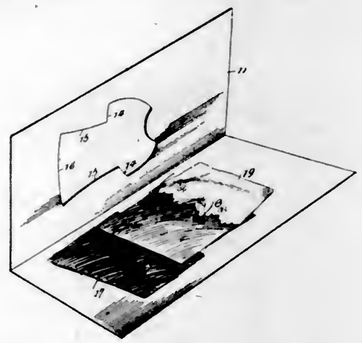
2. A food roll of substantially uniform thickness consisting of a series of substantially whole trimmed tenderloins placed lengthwise of one another in alternating relation, strips of fat, and means for tying the tenderloins together into a compact roll.

1,381,527. OVEN. FRED E. WHITE, Gardner, Mass., assignor to Central Oil and Gas Stove Company, Gardner, Mass., a Corporation of Maine. Filed Jan. 30, 1920. Serial No. 355,036. 2 Claims. (Cl. 126—190.)



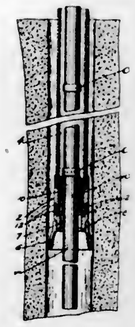
1. A sheet metal oven having an open front and an oven door closing said front and hinged at its lower edge, said door having an inwardly turned marginal flange on its side and top edges overlapping the oven walls when closed and having an outwardly turned flange at its lower edge.

1,381,528. DOLL-MODEL. MAYME WHITE, Indianapolis, Ind. Filed July 8, 1919. Serial No. 309,372. 1 Claim. (Cl. 46—40.)



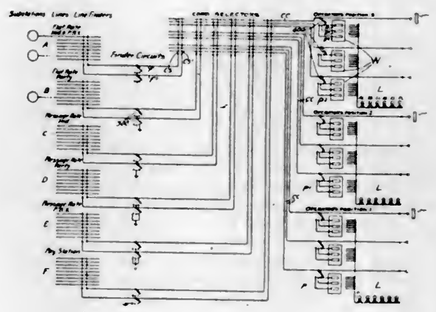
As a new article of manufacture a toy comprising a card folded transversely along its center to provide a front member and a solid back member, said front member having an upper opening including curved side walls defining the outer edges of sleeves and connecting at their upper ends with an arcuate upper wall defining the neck of a dress, the lower short walls of said opening being directed toward one another to define the lower edges of the sleeves, said front member having a lower opening including converging upwardly directed side walls connecting with the inner ends of the short lower walls of the upper opening and defining the side edges of a skirt, said lower opening including a curved lower wall connecting the lower ends of the side walls of said lower opening and defining the lower edge of a skirt, said front member having outlined on its outer face the head and neck of a child above the upper arcuate wall of the upper opening, said front member having outlined on its outer face and extended downwardly and outwardly in opposite directions from the short lower walls of the upper opening the lower portions of the arms and the hands of a child, said front member having outlined on its outer face and extended downwardly from the lower curved wall of the lower opening the lower portions of the legs and the clothed feet of the child, whereby the figure of the child will appear to be fully clothed when sections of material are placed on the solid back member opposite the communicating upper and lower openings of said front member and said front member folded into parallel position with said back member.

1,381,529. OVERSHOT FISHING-TOOL. GEORGE WHITMER, Brea, Calif. Filed Jan. 2, 1920. Serial No. 349,077. 1 Claim. (Cl. 290—90.)



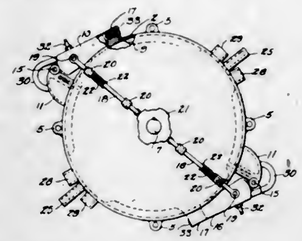
A fishing tool for wells comprising a device adapted to be suspended in a well, said device having an interior convergent surface, bars of spring material mounted flat against said convergent surface at one end and secured thereto so that the free ends incline toward one another and are free to spring outwardly, the attaching means for said bars including bolts received through openings in said suspended device and threaded into said bars.

1,381,530. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,448. 19 Claims. (Cl. 179—27.)



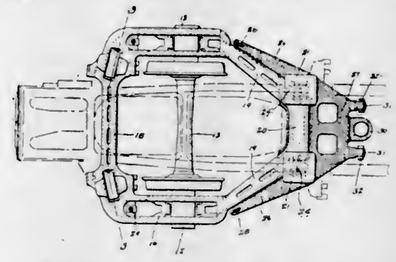
1. The combination with telephone lines and an operator's position, of groups of finder circuits for extending said telephone lines to said position, distinctive controlling means associated with each group of finder circuits, and indicating mechanism at said operator's position selectively responsive to said distinctive controlling means of the various groups of finder circuits.

1,381,531. ROTARY ENGINE. MASON A. WIMBERLEY, Oxnard, Calif. Filed Mar. 16, 1920. Serial No. 366,343. 9 Claims. (Cl. 123—15.)



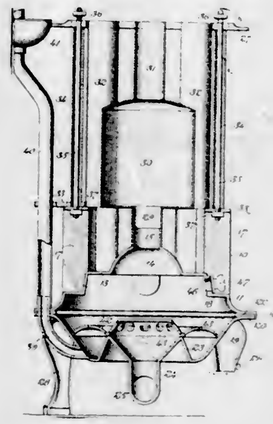
1. A rotary internal combustion engine comprising a casing and an inner member, said parts relatively rotative to each other; the inner member having a plurality of recesses in its circumference; sliding elements yieldingly mounted in the casing and movable into and out of the pockets of the inner member upon relative rotation of the casing and said member; a compression chamber on one side of certain of said sliding elements; an oscillating combustion chamber communicating with each compression chamber; whereby upon relative rotation of the casing and said member fuel charges are successively compressed and delivered into the combustion chambers; means whereby the latter are moved inwardly into the recesses in the inner member whereupon the fuel charges in said combustion chambers are ignited and there being inlet and exhaust ports formed through the wall of the casing on opposite sides of certain of said sliding elements.

1,381,532. TRAILER-TRUCK FOR LOCOMOTIVES. WILLIAM E. WOODARD, Forest Hills, N. Y., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 21, 1920. Serial No. 405,062. 23 Claims. (Cl. 105—82.)



14. In a locomotive trailer truck, a wishbone shaped equalizing member, the legs of which span a part of said trailer truck.

1,381,533. PORTABLE WATER-HEATER. ALEXANDER ZEBROWSKI, Stamford, Conn. Filed Oct. 2, 1920. Serial No. 414,344. 3 Claims. (Cl. 126—360.)

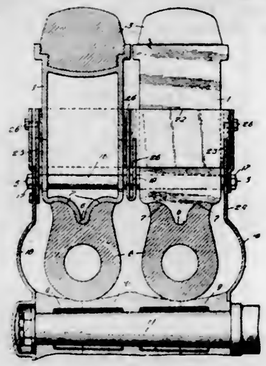


1. A heater of the character described comprising an annular housing including inner and outer relatively spaced concentric walls, the space between said walls being closed at one end and open at the other, a casting closing the open end of said housing, a partition across the inner wall of said housing, means for supplying fuel and air to said base, combustion means connected with said partition, and radiating means connected with said housing.

1,381,534. MULTIPLE-TREAD WHEEL. EDWARD A. BANSCHBACH, Chicago, Ill. Filed Dec. 18, 1918. Serial No. 267,257. 17 Claims. (Cl. 152—31.)

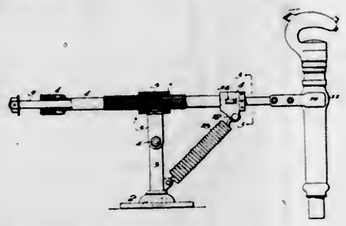
17. A wheel comprising a hub having side plates thereon and spaced apart to form a circumferential channel about said hub, partition plates interposed between said side plates and spaced outwardly from said hub to leave a continuous chamber between the inner edges of said partition plates and said hub, said partition plates being arranged to divide the outer portion of said channel into a plurality of circumferential rows of radially extending cells, the cells of each row being staggered with relation to the cells of the next adjacent row, radially movable tread members in said cells, and resilient members sup-

ported by said hub within said chamber and arranged to bear against the inner ends of said radially movable tread



members, there being one resilient member for each circumferential row of cells and common to all of the tread members of said row.

1,381,535. SUPPORT FOR PNEUMATIC HAMMERS. NICHOLAS BASSO, Victoria, British Columbia, Canada. Filed Apr. 20, 1920. Serial No. 375,308. 2 Claims. (Cl. 78—46.)



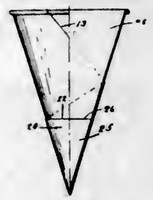
1. A holder for pneumatic hammers comprising a sleeve, a tubular member passing through said sleeve and having a threaded portion, nuts on said threaded portion to engage the ends of said sleeve for positioning said tubular member, a radius rod endwise adjustable within said tubular member, a standard to which said sleeve is pivotally connected and a spring connecting said standard with said tubular member to hold the operative end of the hammer in contact with the work.

1,381,536. PAPER-CUP HOLDER. GEORGE J. BOHLMAN, Medford, Mass., assignor to American Water Supply Company of New England, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 26, 1918. Serial No. 224,735. 2 Claims. (Cl. 65—61.)



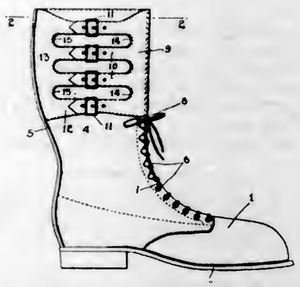
1. A cup-holder comprising a flaring top portion and a frusto conical element contained therein adapted to receive a cup and a supporting element having a top piece with a center hole, said top portion and conical element and top piece together forming a closed compartment around the cup receiving portion of the holder.

1,381,537. PAPER DRINKING-CUP. GEORGE J. BOHLMAN, Medford, Mass., assignor to American Water Supply Company of New England, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 26, 1918. Serial No. 224,737. 2 Claims. (Cl. 229—3.1.)



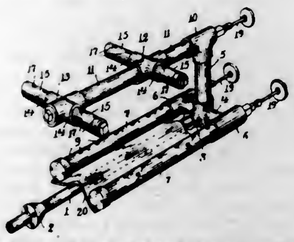
1. As an article of manufacture, a drinking cup composed of paper which is tub-sized and wet calendered, rendering it partially water-proof and providing a glossy surface on one side only, and arranging the paper so that the glossy surface is at the interior of the cup.

1,381,538. BOOT. PASQUALE BONELLI, Port Richmond, N. Y. Filed Aug. 14, 1920. Serial No. 403,497. 1 Claim. (Cl. 36—50.)



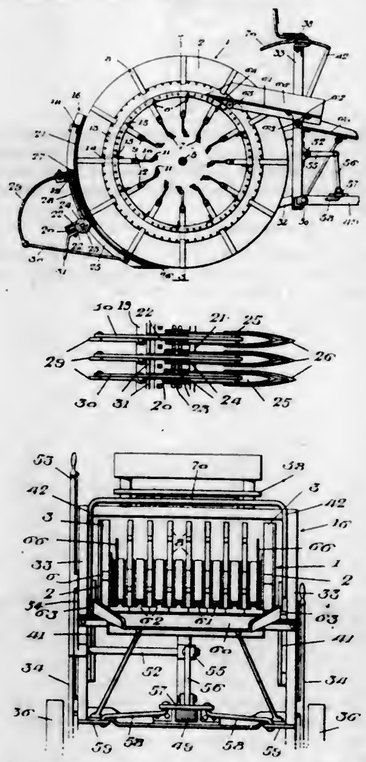
A high top boot having a divided upper whose lower portion is provided with lacing to bring together its parts with a snug fit, and whose top portion has at one side a strip of reinforcng material secured thereto and extending from the back seam of the upper, said top portion at its other side being extended in the form of a flap to compromise a front covering above the lacing, said strip having extending, integral, spaced straps, sewn part-way of their length to the upper, and said flap having integral, spaced straps opposed to the straps extending from said strip, with mutually engaging means.

1,381,539. GAS-BURNER. OPHELIA O. CALEFF, Boston, Mass. Filed Nov. 5, 1920. Serial No. 422,017. 6 Claims. (Cl. 158—105.)



1. A gas burner for stoves and ranges, comprising burner tubes designed to be located at the bottom of the fire pot, a vertical pipe section rising therefrom, a horizontal feeder section connected with the upper end of said vertical section, two cross-sections communicating with and supported by said horizontal section to come immediately beneath the two stove covers, and means for supplying said tubes and sections with burning gas, said cross-sections having burner openings along their upper surfaces.

1,381,540. STONE-PICKING MACHINE. DON P. CARR, Homer, Mich. Filed Aug. 6, 1919. Serial No. 315,662. 10 Claims. (Cl. 55—17.)

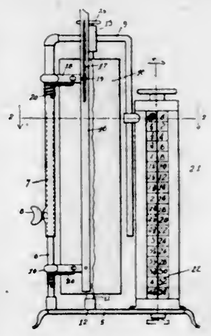


1. A gathering machine embodying a cylinder to roll over the ground and having fingers for raising objects, yieldable deflecting teeth extending downwardly and forwardly under the cylinder to drag over the ground and deflect the objects upwardly, and rearwardly extending stripping fingers bearing on top of the cylinder between the fingers thereof for removing the objects from the cylinder.

4. A gathering machine embodying a cylinder to roll over the ground having outwardly extending fingers, a concave in rear of the cylinder for retaining objects thereon while being elevated, curved deflecting teeth extending behind the concave and downwardly and forwardly under the cylinder, guides for said teeth in rear of the concave, expansion springs behind the concave yieldably moving the teeth downward, leaf springs extending rearwardly and downwardly from the concave, and links connecting the leaf springs and teeth to push the lower portions of the teeth forwardly.

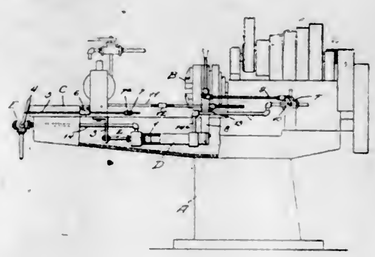
6. A gathering machine embodying a cylinder to roll over the ground having a peripheral portion provided with annular grooves, fingers extending outwardly from between said grooves, stripping fingers pivoted to the frame extending into said grooves for stripping the objects from the cylinder, and rollers pivoted to the stripping fingers and working in said grooves.

1,381,541. COMBINATION COMPUTING AND PAPER-ROLL MACHINE. CALVIN F. CHRISTOPHER, Asheville, N. C. Filed June 17, 1919. Serial No. 304,750. 1 Claim. (Cl. 211—32.)



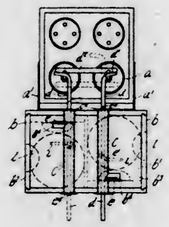
In a paper roll holder a base, a vertical rod mounted thereon, an L shaped rod operatively connected with the first mentioned rod and capable of a vertical adjustment, a bearing mounted thereon to receive one end of a shaft, a second bearing on the base for receiving the opposite end of the shaft, a cutter bar having a longitudinal slot, a pair of spring actuated supporting arms, one of which is loosely mounted on the rod and has its outer end fixed to the lower end of the cutter bar while the other supporting arm is supported above the first mentioned supporting arm, and a set screw carried by the latter arm and extending within the slot in the cutter bar to permit the same to be adjusted longitudinally.

1,381,542. MACHINE FOR THREADING BOLTS AND PIPES. SAMUEL B. CLAY, St. Louis, Mo., assignor of one-half to Edward R. Fish, Webster Groves, Mo. Filed Feb. 2, 1920. Serial No. 355,703. 11 Claims. (Cl. 10—89.)



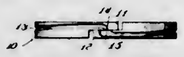
11. A threading machine, comprising a threading mechanism, a carriage for supporting the article to be threaded, a cylinder provided with a piston that is connected to said carriage, a manually-operable valve for admitting a medium under pressure to one end of said cylinder so as to cause the carriage to move toward the threading mechanism, means for automatically moving said valve into such a position that said piston will be ineffective after the article on the carriage has been engaged by said threading mechanism, a second valve for admitting a medium under pressure to the opposite end of said cylinder, and means actuated by the carriage to cause said second valve to open automatically at the completion of the threading operation, thus causing the carriage to return to its starting position, and to close automatically when said carriage reaches its starting position.

1,381,543. MECHANISM FOR AUTOMATICALLY OPERATING APPARATUS AT A PREDETERMINED TIME. MAX COLEMAN, Melbourne, Victoria, Australia. Filed Sept. 21, 1920. Serial No. 411,796. 2 Claims. (Cl. 161—1.)



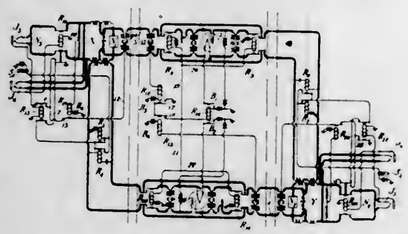
1. In mechanism for automatically operating apparatus at a predetermined time, a slotted cylinder, a trigger-rod disposed within the cylinder and having a lateral projection engaging the slot of the cylinder, and a spring for actuating said rod longitudinally, the slot in the cylinder having a configuration to coact with the lateral projection of said rod, to turn the rod on its axis as it moves longitudinally.

1,381,544. PISTON-RING. HARRY J. CRINER, Moline, Ill., assignor of one-half to James M. Robinson and one-half to John W. Bybee, Moline, Ill. Filed June 12, 1920. Serial No. 388,547. 7 Claims. (Cl. 74—109.)



1. A piston ring comprising two circumferentially-extending portions arranged side by side, each of said portions being provided with a circumferentially-extending groove in its outer face, with the groove in each of said portions opening at the side of such portion and there communicating with the groove in the other portion.

1,381,545. REPEATER-CONTROLLING SYSTEM FOR FOUR-WIRE TELEPHONE-CIRCUITS. CHARLES S. DEMAREST, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 16, 1919. Serial No. 324,155. 5 Claims. (Cl. 179—170.)



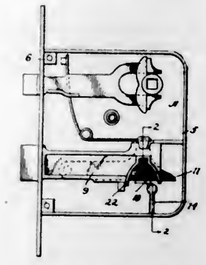
1. In a signaling system, the combination of a four-wire transmission circuit comprising two two-wire side circuits electrically related by means of transformers, a repeater element adapted to be connected with each side circuit, switching means to effect such connection and means for controlling said switching means comprising a relay controlled by the flow of current over a circuit simplexed upon the two-wire terminals of the four-wire circuit and the associated cord circuit whereby said switching means may be prevented from connecting said repeater elements with the side circuits of the four-wire circuits.

1,381,546. FILLING-BOTTLE FOR FOUNTAIN-PENS. WILHELM GEORG HUBERT DZIAMBOR, Hamburg, Germany, assignor to the Firm Simplo Fullfeder Gesellschaft Voss, Lausen & Dziambor Fabrik fur Fullfederhalter und Goldfedern, Hamburg, Germany. Filed Dec. 31, 1919. Serial No. 348,629. 3 Claims. (Cl. 215—73.)



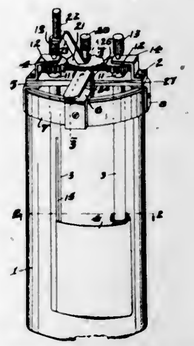
1. Filling bottle for fountain pens, comprising an outlet neck, a jet pipe, screwed into the outlet neck and a narrow tube so attached to the jet pipe, as to extend into the bottle, the tube having its free end bent to the shape of a hook.

1,381,547. COMBINED KEY AND BOLT LOCK. GEORGE C. ENSMINGER, Cutler, Calif. Filed Sept. 7, 1920. Serial No. 408,622. 6 Claims. (Cl. 70—14.)



1. The combination with a lock including a bolt having a key sweep therein, of an attachment therefor including a removable pin adapted to be placed in said key sweep and in the path of the bolt.

1,381,548. FILM-DEVELOPER. OTTO F. HALMER, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,542. 4 Claims. (Cl. 95—93.)



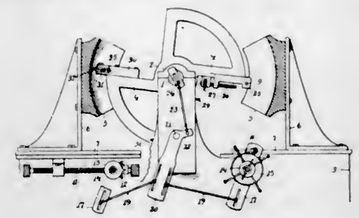
1. A film developer comprising a receptacle for the developing medium, and rotatable supporting rods extending within said receptacle in spaced relation, said supporting rods being tubular and slotted upwardly from their lower ends and adapted to receive the respective ends of a film so that the film may be wound from one of the supports to the other.

1,381,549. PEN RETAINER AND RELEASER FOR PENHOLDERS. HENRY E. HALSETH, Virginia, Minn. Filed Dec. 15, 1920. Serial No. 430,867. 3 Claims. (Cl. 120—101.)



1. A pen retainer and releaser including a strand of wire folded upon itself and then bent into a substantially U-shape, one leg of the U embracing the inner face of the pen and the opposite leg embracing the inner wall of the pen holder, said latter leg being extended and bent at right angles so as to lie beyond the outer periphery of the penholder to serve as an abutment for removing the device from the penholder.

1,381,550. CIRCULAR PLANER. THOMAS L. HARKINS, Boston, Mass. Filed Mar. 1, 1920. Serial No. 362,226. 5 Claims. (Cl. 90—24.)



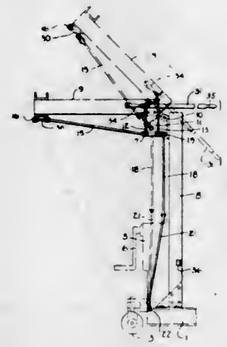
1. A means for cutting a groove partially circular in cross section, comprising a driven shaft, a radial arm rigid with said shaft, a rotatable member carried at the end of said arm, means for giving it a step-by-step rotation, and a cutting tool held by said member, the axis of rotation of said member being tangential to the latter's circle of rotation about said shaft.

1,381,551. SPRINKLER-HEAD FOR AUTOMATIC SPRINKLING DEVICES. JAMES HARTLEY, Philadelphia, Pa. Filed July 13, 1920. Serial No. 395,847. 1 Claim. (Cl. 169—39.)



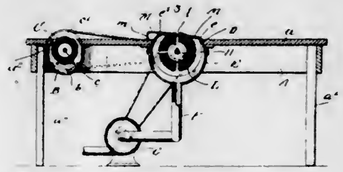
A sprinkler head comprising a frame providing a coupling for connection with a water supply pipe, a valve seat on the frame, a wheel shaped fusible link disposed in the frame, said link consisting of a plurality of link elements and a spring interposed therebetween with said link elements normally held against relative disengagement, a valve on one of the link elements and normally seated on the valve seat, a stem on the other link element, a screw on the frame and adapted to engage the stem of the link to normally hold the valve in engagement with its seat and a spider cap mounted in the frame and held therein in superposition to said valve seat.

1,381,552. PORTABLE ELEVATOR. ETHAN N. HESCOCK, Westfield, N. J., assignor to New Jersey Foundry and Machine Company, a Corporation of New Jersey. Filed Dec. 7, 1920. Serial No. 428,901. 8 Claims. (Cl. 187—9.)



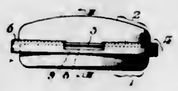
1. In a movable elevator, the combination of an upright section, a section hinged thereto, locking means to lock the sections together, said locking means also serving to raise and lower the upper section.

1,381,553. CLEANING-MACHINE. ALONZO L. HILDRETH and ALEXANDER M. MCLENDON, Savannah, Ga. Filed Apr. 19, 1920. Serial No. 374,981. 2 Claims. (Cl. 15—8.)



1. A cloth cleaning machine, comprising a table having an opening in its top, a rotary brush extending upwardly through said opening, a casing for the brush secured to the under side of the table, bridge wires extending upwardly and rearwardly from their front ends across the opening for supporting the cloth while being cleaned above the plane of the table, and exhaust mechanism connected with the lower portion of the casing below the brush for drawing air through the cloth and the bridge wires while supported by said wires and while being acted on by the brush.

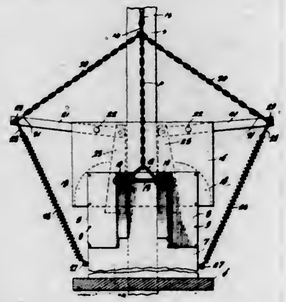
1,381,554. OPENING MEANS FOR BOXES. GEORGE N. HINGSTON, Philadelphia, Pa. Filed Nov. 8, 1920. Serial No. 422,537. 1 Claim. (Cl. 220—43.)



A container comprising a body with an external shoulder, and a lid for said body having a lateral extension

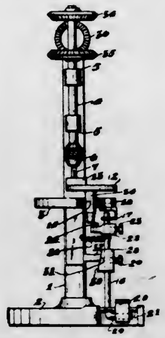
outward above said shoulder and affording a hold at its own lower side for opening the container, said extension being apertured to afford access to the upper side of the shoulder on the body and permit the lid to be lifted off the body by a squeezing action of the fingers.

1,381,555. SAFETY-CATCH. FRANK HODSON, Nokomis, Ill. Filed June 20, 1919. Serial No. 305,482. 1 Claim. (Cl. 187—88.)



In combination with a guide having an elevator car movable therealong and means for raising and lowering the car, a safety device including a supporting web secured to the car and extending across the inner face of the guide, a cover plate extending across the outer face of the guide, cam blocks on opposite sides of the guide and secured between said web and cover plate, wedges disposed between the cam blocks and sides of the guide, a lever pivotally connected to the upper end of each wedge and pivoted between said web and plate, means connecting said levers to said raising and lowering means for normally maintaining said wedges inoperative and spring means connected to said levers and said car for moving the wedges into binding engagement with said guides.

1,381,556. AUTOMATIC TAPPING DEVICE. FRANK HOERNER, Los Angeles, Calif. Filed June 24, 1920. Serial No. 391,422. 8 Claims. (Cl. 10—137.)



8. A tapping device comprising a tapping spindle, a work support, an actuating rod engaging said work support for moving the latter toward said spindle, means for automatically disengaging said rod from said support at a predetermined point to cause movement of said support away from said spindle, spaced driving means upon said spindle, and a driving member operatively connectible with either of said driving means for causing reverse rotation of said spindle, said spindle being arranged to be longitudinally shifted with said work support to make said respective driving connections.

1,381,557. CREAM-SAMPLER. JAMES ALLEN HOLCOMB, San Francisco, Calif. Filed Dec. 22, 1919. Serial No. 346,570. 11 Claims. (Cl. 137—18.)

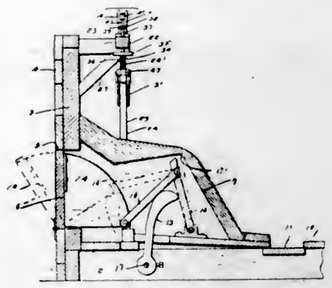


1. The combination with a cream sampler including a cream collecting trough, of an electric heating unit removably associated with the sampler.

1,381,558. UTILIZATION OF CATALYST MASSES. WILLIAM HOSKINS, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,504. 6 Claims. (Cl. 252.)

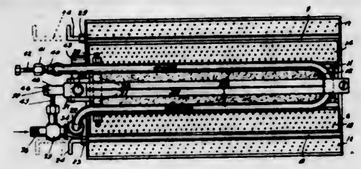
1. The method of separating a catalyst-mass derived from oil hydrogenation processes into its constituents which comprises mixing the mass with solvent acid at a temperature sufficiently high to liquefy the fat present and filtering the mixture, thereby separating out the carrier.

1,381,559. FEED-DOOR FOR STALLS. EDMOND HOULE, Danvers, Mass. Original application filed Jan. 16, 1920, Serial No. 351,893. Divided and this application filed June 29, 1920. Serial No. 392,642. 2 Claims. (Cl. 119—27.)



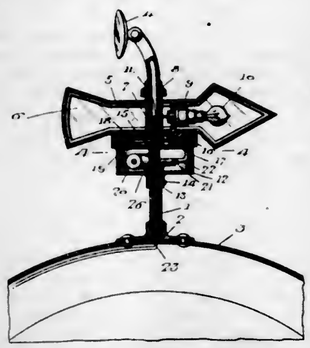
1. A device of the character set forth comprising a frame, a front wall carried by said frame and having a doorway, a hinged door closing said doorway, partitions carried by said frame and front wall to form a plurality of stalls having feeding spaces, segmental plates secured to the door, arms pivotally mounted in said partitions, links connecting said arms to the segmental plates and cam shaped elements adapted to engage the links and segmental plates for opening the door and holding said door in an open position.

1,381,560. HYDROCARBON-BURNER. PETER B. JOHNSON, Seattle, Wash. Filed June 12, 1920. Serial No. 388,661. 6 Claims. (Cl. 158—65.)



1. An oil burner comprising a relatively long rectangular base, end walls projecting upwardly from said base, side walls projecting upwardly from said base, said base extending outwardly beyond said side walls, a priming pan extending lengthwise between said two end walls centrally of said burner, a horizontal perforated burner plate disposed on each side of said priming pan said burner plates and said priming pan constituting the top wall of said burner, angularly disposed perforated side burner plates extending from the edges of said base to said side walls and forming fuel chambers of triangular cross sectional shape, the said side walls having openings for the admission of fuel to said chambers, doors for said openings, means extending to the exterior of the burner for opening and closing said doors, a tubular conduit projecting into the interior of said burner and a vaporizing coil disposed above the burner body and having a downwardly projecting end provided with a gas outlet perforation for directing a jet of fuel gas into said tubular conduit.

1,381,561. SIGNAL DEVICE OR INDICATOR. SAMUEL SYLVESTER JOHNSON and MARK E. JOHNSON, Harrisburg, Pa. Filed Aug. 21, 1919. Serial No. 318,959. 1 Claim. (Cl. 177—327.)



A signal device comprising a post, a signal member having a sleeve mounted for rotation on said post between the ends thereof, a cup-shaped casing having its bottom secured on said post under the signal member, a turntable over said casing supporting the signal member and having an apron surrounding the casing, means for supporting said turntable for free rotation above said casing, a ring on the post engaging over the upper end of said sleeve to hold the signal member and turntable down and to prevent moisture and dirt from entering said sleeve, and actuating means within said casing connected to said turntable for turning it.

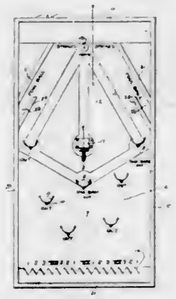
1,381,562. PUMP. OCEOLA JONES, Houston, Tex. Filed Aug. 26, 1919. Serial No. 320,031. 2 Claims. (Cl. 103—67.)

1. In a pump, a valve mechanism, including a tubular valve casing, a cylindrical valve rotatable therein, and provided with a stem, a member fixed to said stem and provided with a projecting pin, a pair of disk like intermeshing rack members, one of which is loosely mounted on said



stem, and provided with an arcuate slot through which said pin projects, and a yieldable member whose respective ends are eccentrically attached to said respective rack members.

1,381,563. GAME. HERMAN KAUFMAN, New Haven, Conn. Filed Mar. 22, 1920. Serial No. 367,614. 1 Claim. (Cl. 46—61.)

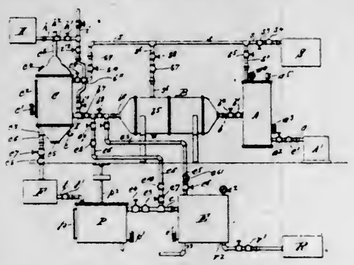


A game apparatus comprising a field formed at its upper end with a space extending transversely across the field, the bottom of the space being below the surface of the field, a horizontally arranged rotatably mounted disk in the center of the field adjacent to the edge of the said depressed space, a pocket on each side of the field, a series of cages independently and loosely pivotally mounted on pins arranged upon the field and means for impelling a ball.

1,381,564. EDIBLE FATTY PRODUCT FROM FIXED OILS AND FATS AND PROCESS OF MANUFACTURING SAME. EMANUEL KLEIN, New York, N. Y. Filed Nov. 5, 1918. Serial No. 261,220. 13 Claims. (Cl. 87—12.)

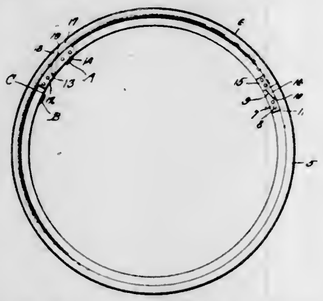
1. The fatty product derived from fixed fatty oils and fats consisting of varieties of fat or oily matter non-rancid and rid of free fatty acids as indicated by the herein specified reaction with hemoglobin and guaiac, having a

specific gravity 0.900 to 0.952 at 15° C., or 0.852 at 79° C., a neutralization 172 to 219, a permanent reading 21



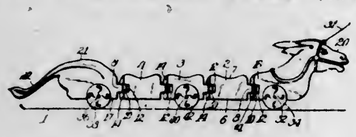
yellow and 1–4 in Levibond's tintometer to nearly water color when analyzed and tested.

1,381,565. AUTOMOBILE-RIM. GEORGE M. KLINELINE, Harrisburg, Pa. Filed May 7, 1920. Serial No. 379,589. 3 Claims. (Cl. 301—31.)



2. In a rim for automobile wheels, a plurality of sections, plates on the sides of the sections at the ends thereof, and means for causing interlocking engagement of the contiguous plates of the said sections.

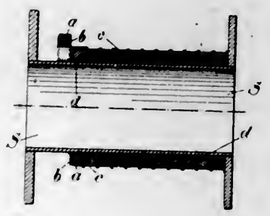
1,381,566. FIGURE WHEELED TOY. JULIUS W. KNIPP, Indianapolis, Ind., assignor to William F. Bockhoff, Richmond, Ind. Substitute for application Serial No. 339,968, filed Nov. 22, 1919. This application filed Mar. 26, 1921. Serial No. 456,005. 4 Claims. (Cl. 46—45.)



1. A figure wheeled toy comprising a plurality of body sections hingedly connected directly one to another, an intermediate one of the sections only being provided centrally with a pair of wheels, a head section hingedly connected directly to one of the end ones of the body sections and provided adjacent to its connected portion with a pair of wheels, and a tail section hingedly connected directly to the remaining one of the end sections and provided adjacent to its connected portion with a pair of wheels.

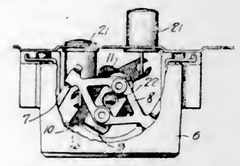
1,381,567. METHOD OF MANUFACTURING ELECTRIC COILS. ERNST WOLFGANG KÜTTNER, Berlin, Germany. Filed June 30, 1917. Serial No. 178,049. 3 Claims. (Cl. 175—340.)

1. The method of manufacturing electric coils consisting in providing a metallic conducting wire, providing and placing absorbent material between the individual turns of conducting wire, providing a liquid which is adapted to form an insulating chemical compound of the metal on the wire, introducing this liquid into the absorbent ma-



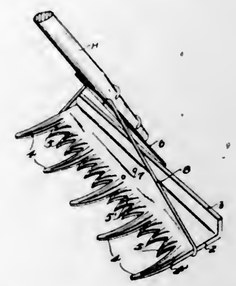
terial and into the spaces between the wire and the absorbent material, providing a fluid which will render the absorbent material incombustible, and impregnating the absorbent material with such liquid incombustible material.

1,381,568. ELECTRIC SWITCH. HENRY E. LEPPERT, New Britain, Conn., assignor to The Trumbull Electric Mfg. Co., Plainville, Conn., a Corporation of Connecticut. Filed Dec. 11, 1920. Serial No. 429,908. 8 Claims. (Cl. 200—72.)



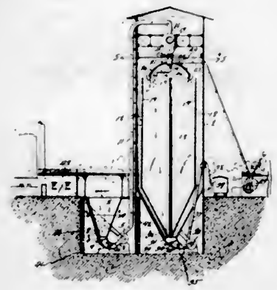
1. In an electic switch, a supporting frame having oppositely disposed bearing lugs, a U-shaped carrier having semi-annular bearing projections engaging said lugs, and means for operating said carrier with a snap action.

1,381,569. LAWN-WEEDER. WILLIAM LINHOFF, Pasadena, Calif. Filed Mar. 16, 1920. Serial No. 366,354. 4 Claims. (Cl. 55—10.)



4. In a lawn weeder, a body formed of sheet metal bent so that it is substantially L-shaped in cross section and with its horizontal leg substantially wider than its vertical leg, a series of integrally formed pointed prongs projecting outwardly from the outer edge of the horizontal leg of said L-shaped body, said prongs being spaced apart, and a plurality of relatively short, downwardly curved pointed members projecting outwardly from the edge of the relatively wide leg of the L-shaped body between the prongs thereon, the side edges of which pointed members are beveled to form cutting edges.

1,381,570. GRAIN-ELEVATOR. HERBERT K. LININGER, Kansas City, Mo. Filed Jan. 27, 1920. Serial No. 354,501. 1 Claim. (Cl. 130—17.)



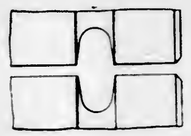
A grain cleaning device comprising a discharge pipe substantially vertically disposed and pivotally mounted in a bearing, said discharge pipe being provided with a horizontally disposed portion terminating in a downwardly extending discharge end, a casing surrounding the vertical portion of the discharge pipe thereby forming an annular chamber, outwardly and downwardly extending pipes carried by said casing and having their ends positioned so that the discharge end of the pivoted discharge pipe may be positioned adjacent their ends, means for creating a suction in the outwardly and downwardly extending pipes, the pivotal mounting of the discharge pipe permitting the end of the same to be positioned adjacent the end of either outwardly and downwardly extending pipe.

1,381,571. FOUNTAIN-PEN. FRANK H. LENNARDS, Evanston, Ill. Filed Sept. 29, 1919. Serial No. 327,298. 11 Claims. (Cl. 120—50.)



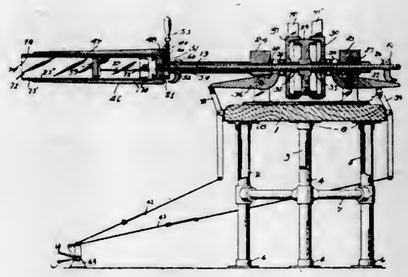
11. A fountain pen of the character described comprising an ink feeding means made of flexible material whereby said feeding means is adapted to accommodate itself to a pen point of any construction, said means comprising a member having a groove extending along one of its sides substantially through the entire length thereof, a cover member positioned over said groove, and provided with an ink feeding opening at the end of said groove.

1,381,572. PROCESS OF ROLLING ROUND METAL BARS TO ELIMINATE LAPS, SEAMS, AND SCALE. THOMAS LLEWELYN, Jr., Pittsburgh, Pa. Filed Feb. 11, 1919. Serial No. 276,265. 3 Claims. (Cl. 80—63.)



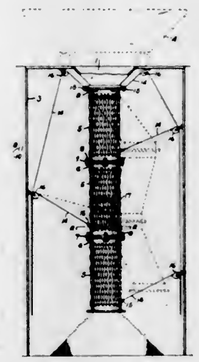
3. The method of forming round bars consisting in rolling a billet into rectangular cross sectional shape, then rolling the product into oval cross sectional shape, then rolling the product into rectangular cross sectional shape, then rolling the product flat, then rolling the product into oval cross sectional shape of less area than the first oval shape, then flattening the product, then rolling the product into oval cross sectional shape of less area than the second oval shape and finally rolling the product into circular cross sectional shape.

1,381,573. UPHOLSTERING-MACHINE. EMIL J. LONG, San Francisco, Calif., assignor to Continental Furniture Manufacturing Company, a Corporation of California. Filed May 5, 1919. Serial No. 294,651. 6 Claims. (Cl. 226—44.)



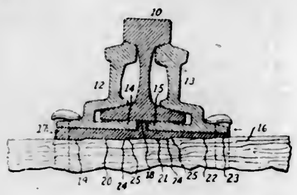
1. An upholstering machine comprising an open ended extensible receptacle having overlapped hinged top members and overlapping bottom members, means to hold said receptacle closed, a pusher bar therein, and means to move the extensible receptacle so that the pusher bar therein will push material out of the receptacle and into a container placed over the receptacle.

1,381,574. FLEXIBLE CONVEYER. FREDERICK LUDLAM, Taunton, Mass. Filed Apr. 1, 1918. Serial No. 225,864. 3 Claims. (Cl. 193—41.)



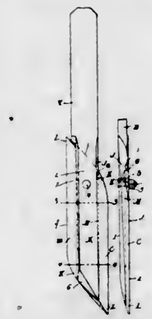
1. A flexible chute section comprising an end member, a plurality of chains secured to the same to form a chute wall, the links in the same circumferential row of links so arranged around the chute that an upright plane wholly within the material of the link will, in one case, intercept a radial plane from the center of the chute through the center of a link at substantially a right angle; and in the case of a contiguous link such a plane would intercept a radial plane at other than a right angle.

1,381,575. TIE-PLATE. JOHN LUNDIE, New York, N. Y., and GEORGE W. WHITEMAN, Philadelphia, Pa. Filed Feb. 21, 1921. Serial No. 446,834. 12 Claims. (Cl. 238—298.)



12. The combination of a tie-plate having an inclined upper surface, rail-joint bars resting upon said plate, and means located between the bars for transmitting the lateral thrust of the bars to the tie-plate.

1,381,576. REVERSIBLE COLTER. ALEXANDER MCCACHEN, Dunbarton, Ontario, Canada. Filed Apr. 10, 1920. Serial No. 372,775. 2 Claims. (Cl. 97—6.)



2. In combination a reversible colter comprising a blade having two oppositely-disposed cutting edges dove-tailed for its whole length in one side thereof, each of the said edges being rounded to a point, the points lying diagonally to each other, and a shank formed to fit said dove-tailed groove and adapted to be removably coupled to said blade.

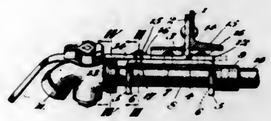
1,381,577. ANGLE-COCK HOLDER. LOUIS G. MILLER, Westmont borough, Pa. Filed Mar. 14, 1921. Serial No. 452,078. 3 Claims. (Cl. 248—31.)



1. The combination with a train pipe and angle cock thereon, of a holder for same secured to the car body and provided with a locking bolt and a spring adapted to slide endwise, whereby the locking bolt contacts with the angle cock while the end of the spring is adapted to abut against a portion of the holder to lock the bolt in operative position.

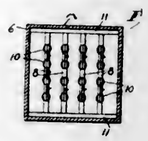
1,381,578. HOLDER FOR ANGLE-COCKS. LOUIS G. MILLER, Westmont borough, Pa. Filed Mar. 14, 1921. Serial No. 452,079. 5 Claims. (Cl. 248—31.)

3. A holder for angle cocks comprising an angle member one leg of which is secured to a car end sill, the other leg being formed with a channel portion in which is seated a locking bar adapted to slide endwise therein and means for locking same in operative position, a



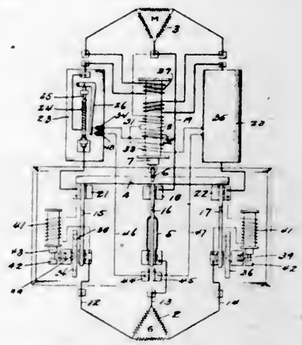
trough-shaped member secured to said angle member having end flanges projecting downwardly therefrom and provided with perforations adapted to receive a train pipe.

1,381,579. ELECTRIC AIR-HEATER. RAYMOND H. MINNS, Bedford Hills, N. Y. Filed Aug. 23, 1918. Serial No. 251,191. 5 Claims. (Cl. 219—38.)



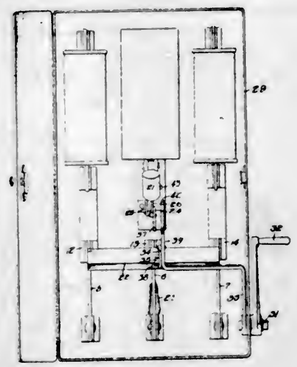
1. An electric air heating device of the class described, comprising a body part composed of combustible, non-conducting material, said body part being open at the top and bottom and provided with an air heating chamber therein, a plurality of supports mounted transversely of the top and bottom portions of said body part, said supports being composed of combustible, non-conducting material, a plurality of wire coils mounted in said chamber, and means connected with said supports for supporting said coils in said chamber.

1,381,580. ELECTRIC CONTROL SYSTEM. BENJAMIN M. MOOERS, San Francisco, and LAWRENCE E. WARNER, Berkeley, Calif., assignors to Motor Protector Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed June 9, 1917. Serial No. 173,752. 13 Claims. (Cl. 175—294.)



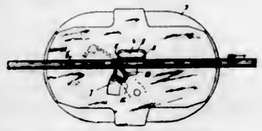
2. A protective device for an electric circuit containing electric apparatus, comprising means including an electric heating element, and controlled by an increase in temperature of the heating element by current flow to a predetermined temperature to open the circuit and prevent the closing of the circuit until the temperature of the heating element falls below a predetermined temperature.

1,381,581. ELECTRIC-CIRCUIT-PROTECTING APPARATUS. BENJAMIN M. MOOERS, San Francisco, and LAWRENCE E. WARNER, Berkeley, Calif., assignors to Motor Protector Mfg. Co., San Francisco, Calif., a Corporation of California. Filed Mar. 1, 1918. Serial No. 219,748. 7 Claims. (Cl. 175—294.)



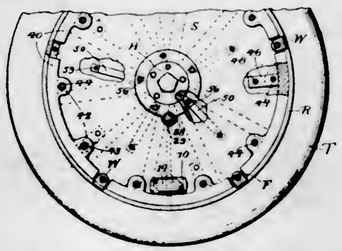
6. A protective device for an electric circuit, comprising an electromagnet arranged in said circuit, a switch in said circuit, an armature associated with said electromagnet and adapted when released from said electromagnet to fall and release said switch, and means for simultaneously raising said armature and closing said switch.

1,381,582. BOX FOR CASH-CARRIERS. JOSEPH F. MORRIS, Derby, Conn. Filed Mar. 18, 1921. Serial No. 453,433. 2 Claims. (Cl. 186—33.)



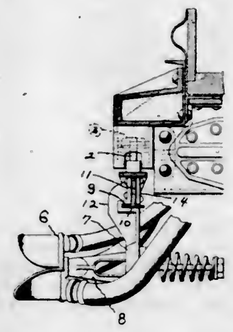
1. The combination with a box for cash-carriers provided with a post and a latch, of a sleeve surrounding one of said parts and free to turn thereon.

1,381,583. WHEEL-PROTECTOR. ARTHUR MULL, Chicago, Ill. Filed Sept. 14, 1920. Serial No. 410,115. 4 Claims. (Cl. 301—37.)



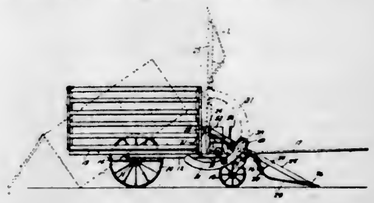
1. In a wheel protector, the combination with plates for application to the outside and inside of a wheel and notched in their edges to admit the rim-fastening devices; of jaws overlying the edges of the plates and spaced at their ends to admit said devices, and through bolts passing through the jaws and the plates and between the spokes of the wheel.

1,381,584. AUTOMATIC TRAIN-PIPE-CONNECTOR SUPPORT. WALTER P. MURPHY, Chicago, Ill. Filed Aug. 14, 1917. Serial No. 186,135. 4 Claims. (Cl. 285—24.)



1. In a device of the character specified, the combination with a swingingly mounted carry iron, of a train pipe coupler suspended from said iron whereby the said coupler is maintained in the center line of a car to insure its proper operation.

1,381,585. PORTABLE LOADER. DE WITT NELSON, Minneapolis, Minn., assignor of one-third to P. J. Lyons, Minneapolis, Minn., and one-third to John F. Robinson, Steele, N. D. Filed May 20, 1919. Serial No. 298,486. 12 Claims. (Cl. 214—78.)



1. In a portable loader, the combination with a frame having wheeled ground supports and a receptacle supported upon said frame, of a loading fork, normally extending below and forward of said receptacle and having arms pivoted axially transverse to said frame, a motor shaft mounted upon said frame, a normally stationary starting shaft for said motor shaft mounted concentric to said shaft, transmitting means for rotating said starting shaft from said wheeled ground supports, a clutch included in said transmitting means, manually operated means for engaging the clutch to rotate the starting shaft and the motor shaft, automatically operated means for disengaging the clutch when said motor is operating, a clutch connected to said motor and means coöperating with said motor, said clutch and said fork arms for periodically raising and lowering said fork.

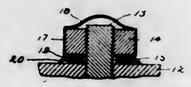
1,381,586. INSECTICIDE AND FUMIGATION PROCESS. JOSEPH D. NEULS, Los Angeles, Calif., assignor, by mesne assignments, to The Pacific R. & H. Chemical Corporation, Los Angeles, Calif., a Corporation of California. Filed Apr. 15, 1918. Serial No. 228,742. 4 Claims. (Cl. 167—6.)

1. A material for destroying insects or other pests, comprising a mixture of an agent, such as hydrocyanic acid gas, which has the property of deoxidizing the body fluid of the insect, and an agent, such as mustard oil, which has the property of stimulating activity in the body segments of the insect, or of irritating the body issue of the insect.

3. The method of treating trees to destroy insects thereon, which consists in subjecting the tree to hydro-

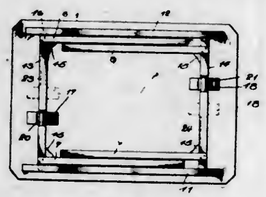
cyanic acid gas mixed with another gas which has the property of irritating the body tissue of the insects or of stimulating activity in the body segments of the insects.

1,381,587. BOLT-NUT. WARREN NOBLE, Providence, R. I., assignor to N. C. L. Engineering Corporation, Providence, R. I., a Corporation of New York. Filed July 17, 1919. Serial No. 311,457. 7 Claims. (Cl. 85—35.)



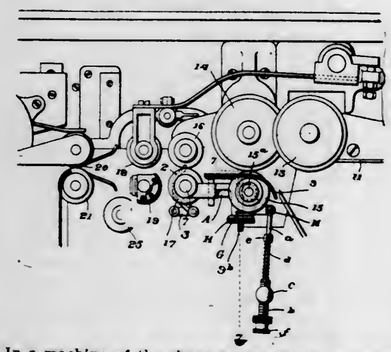
1. A nut provided with a casing of sheet material including a body portion covering the perimeter of the nut, a head portion covering the outer end face of the nut, a contracted portion engaging the margin of the inner end face of the nut, and a base portion formed to surround a locking member.

1,381,588. FOLDING TABLE. HARRY G. NORWOOD, Baltimore, Md., assignor to William Fuid, Baltimore, Md. Filed Jan. 11, 1921. Serial No. 436,453. 1 Claim. (Cl. 45—11.)



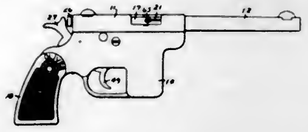
A folding table comprising, in combination, a top, downwardly projecting spaced members secured to said top and having sockets therein, a squared shaft having rounded ends journaled in said sockets, a rounded portion on each shaft, and a locking member having a squared recess adapted to slide upon said shaft said member fitting against the lower surface of the table top whereby it may be slipped into register with the rounded portion to release the shaft and into engagement with the squared portion to lock the shaft against rotation in either one of two positions.

1,381,589. FEED MECHANISM FOR MACHINES FOR MARKING MAIL, &c. JACOB W. OGDEN, Stamford, Conn., assignor, by mesne assignments, to Universal Stamping Machine Company, Stamford, Conn., a Corporation of Delaware. Filed Oct. 10, 1918. Serial No. 257,604. 6 Claims. (Cl. 271—36.)



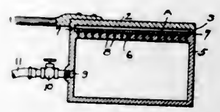
3. In a machine of the character specified, the combination of a feed roller, an adjacent pair of feed rollers, a swingable support pivoted on the shaft of one of the pair of feed rollers and extending opposite the first feed roller, said support having a vertical bearing for the spindle of a separator roller and a transverse bore; a separator roller having its spindle journaled in said bearing, an adjustable guide plate having a pin engaging the said bore, and means for adjusting said support and yieldingly holding the same in adjusted position.

1,381,590. AUTOMATIC PISTOL. STACY OLIVER, Chicopee Falls, Mass. Filed Sept. 13, 1917. Serial No. 191,220. 5 Claims. (Cl. 42—3.)



1. In an automatic pistol, the combination, of a frame, a bolt for movement longitudinally in the frame, a spring for advancing said bolt, a firing pin movable longitudinally in said bolt, a hammer for impact against said firing pin, a spring connected to the hammer for urging the latter into contact with the firing pin, a trigger for operating said hammer, a downwardly facing shoulder formed upon the hammer, and a lever pivotally carried by said trigger and adapted to engage said shoulder to relieve the firing pin of pressure of said hammer, said bolt provided with an undercut way terminating in a shoulder, a stop member carried in said way for engagement against said shoulder to limit forward movement of the bolt.

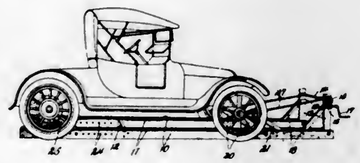
1,381,591. METHOD AND APPARATUS FOR MAKING PLATE-GLASS. WILLIAM H. POWELL, Elmer, N. J. Filed Dec. 12, 1919. Serial No. 344,365. 11 Claims. (Cl. 49—3.)



1. The method of making plate glass that comprises casting a plate of glass, inverting the cast plate, and heating the top of said inverted plate and thereby imparting a smooth surface thereto.

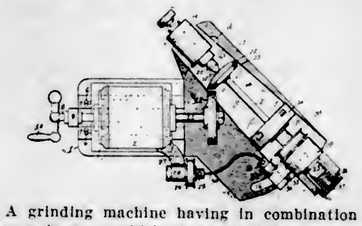
6. As a new article of manufacture, a plate of glass having a heat-polished beveled edge.

1,381,592. AUTOMOBILE-HOIST. MATT PRICE, Salina, Kans. Filed Dec. 16, 1920. Serial No. 431,113. 5 Claims. (Cl. 254—89.)



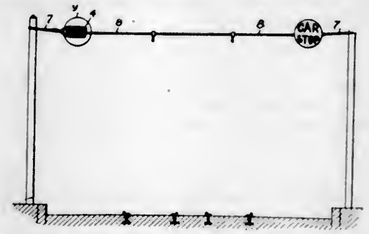
1. In a hoist, a base, a pair of pivotally mounted supporting members swingable independently of each other in planes longitudinal of the base, a second pair of swingable independent supporting members mounted on the base, and means at one base end whereby an automobile may be pulled toward that end after either or both axles are brought into engagement with the corresponding pairs of supporting members.

1,381,593. GRINDING-MACHINE. JOHN O. ROLLINS, Fresno, Calif. Filed May 13, 1920. Serial No. 381,054. 4 Claims. (Cl. 51—106.)



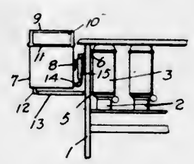
1. A grinding machine having in combination a work holder, a base on which the work holder is mounted, a grinding wheel, means for driving the same, a movable base on which the grinding wheel is mounted, a flexible drive established from the means for driving the grinding wheel to the work holder, means for effecting a lateral and longitudinal adjustment of the grinding wheel through its movable base, and means for effecting an adjustment of the work holder relative to the grinding wheel.

1,381,594. STRAIN-INSULATOR SIGN. CHRISTIAN P. SAUERESIEN, West View, Pa. Filed May 28, 1919. Serial No. 300,383. 1 Claim. (Cl. 40—128.)



An article of manufacture comprising a block of insulating material adapted to serve as an insulating connection for wire terminals and provided with integral letter bearing flanges of substantially larger dimensions than the thickness of said block and spaced from said block.

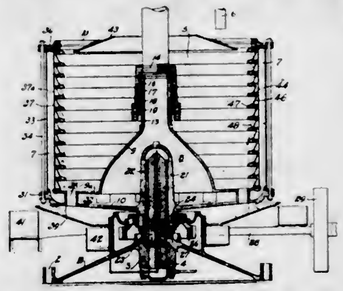
1,381,595. WATER-HEATING DEVICE FOR OIL-STOVES. ALEXANDER LOUIS SCHAEFER, Bolton, Ontario, Canada. Filed May 3, 1920. Serial No. 378,566. 1 Claim. (Cl. 126—54.)



In a water heating device for oil stoves, the combination with the stove body provided with the usual burners, of a water reservoir rigidly connected to the body, a chimney for the burner having a hollow wall forming a water space, and flexible inlet and outlet pipes connecting the interior of the hollow chimney to the water reservoir and adapted to permit of the free vertical movement of the chimney independently of the reservoir.

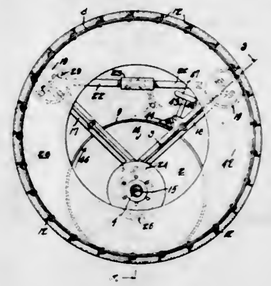
1,381,596. APPARATUS FOR SEPARATING MATERIALS OF DIFFERENT SPECIFIC GRAVITIES. CHARLES SCHIFFERLE, Marysville, Calif. Filed Mar. 14, 1918. Serial No. 222,347. 12 Claims. (Cl. 233—15.)

1. In an apparatus of the character described, a rotatable drum comprising a chamber having a cylindrical lateral upright wall, a filter cloth disposed upon said wall, annular rings disposed upon said filter cloth to form riffles on said wall, means for feeding material to be



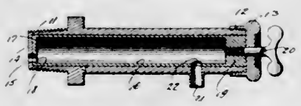
treated against the upper portion of said wall to move downwardly thereon and means for supplying fluid under pressure against said filter cloth.

1,381,597. VEHICLE-WHEEL. CHARLES J. SCHIFFERLE and LEO SCHIFFERLE, Berkeley, Calif. Filed Nov. 29, 1918. Serial No. 264,693. 15 Claims. (Cl. 180—10.)



3. A wheel structure comprising a load-bearing wheel, a rigid circular track disposed about said wheel, means for revolving said wheel, and means engaging said wheel whereby the torque of the wheel-turning means tends to cause rotation of said track about the rotational axis of said wheel.

1,381,598. SPIGOT. AUGUST C. STOLL, Ann Arbor, Mich. Filed Feb. 17, 1920. Serial No. 359,390. 3 Claims. (Cl. 251—9.)

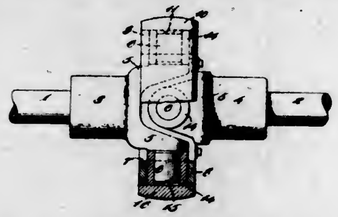


1. A spigot including a casing having an inlet and an outlet, a turning plug in the casing and having an inlet and an outlet for simultaneous register with the inlet and outlet of the casing, and means between the turning plug and the casing for rotating the turning plug to yieldably hold the turning plug in such position that the inlets and outlets remain out of register.

1,381,599. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 23, 1919. Serial No. 306,079. 4 Claims. (Cl. 64—102.)

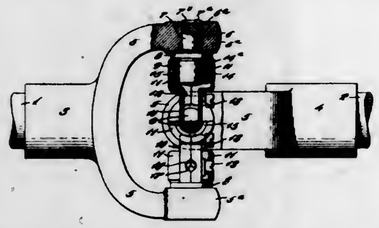
1. In a universal joint, the combination of a pair of shaft sections each provided with trunnions, an inner

member having journal openings extending therethrough for said trunnions and provided with a chamber for lubricant having an outlet extending outwardly therefrom, and an outer member secured to the inner member and serving to close the outer ends of said journal open-



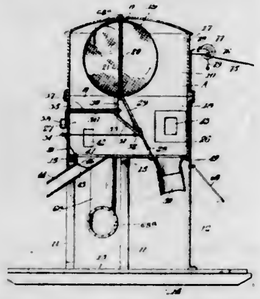
ings, there being a groove for lubricant provided between the outer surface of the inner member and the inner surface of the outer member with which said outlet communicates and serving to conduct lubricant to the journals of the inner ring member.

1,381,600. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 23, 1919. Serial No. 306,080. 7 Claims. (Cl. 64—102.)



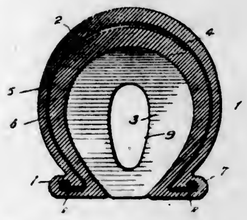
1. In a universal joint, the combination of a pair of yokes, the arms whereof are provided each with a bore, a trunnion having a pin or stud mounted in each bore, the outer end of each pin being recessed and pressed outwardly to form a flush rivet connection with its arm, and a connecting member having journals adapted to receive said trunnions.

1,381,601. VACUUM GRAIN-CLEANER. CHARLES ARGYLE TORRENCE, Regina, Saskatchewan, Canada. Filed May 13, 1918. Serial No. 234,215. 9 Claims. (Cl. 130—17.)



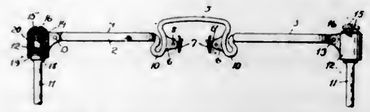
1. In a machine of the class described, a casing, vacuum chambers in the lower part of the casing, a conduit operatively connected to one of the chambers, automatically actuated valves in the conduit, a fan operatively connected to the casing, and a revoluble screen in the casing above the said chambers, the said screen being formed with a cylindrical wall and flat end walls.

1,381,602. AUTOMOBILE-TIRE. IRA TRAUTMAN, New York, N. Y. Filed Jan. 6, 1920. Serial No. 349,678. 2 Claims. (Cl. 152—1.)



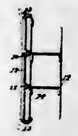
1. An automobile tire comprising a shoe with heels, a tread, canvas reinforcing the tread, a metal ring curved in cross section reinforcing said canvas and tread and radially disposed and perforated cushions integral with the shoe and supporting the tread and ring, whereby the shoe is resilient and supported at all times without the use of a pneumatic tube.

1,381,603. SPECTACLE-FRAME. WILLIAM M. UPDEGRAVE and ALEXANDER S. RYESKY, Johnstown, Pa. Filed Aug. 23, 1919. Serial No. 319,395. 4 Claims. (Cl. 88—41.)



1. A reversible spectacle frame having a horizontal bridge, and adjustable nose rests, and temples provided each with a pivotal connection with said frame and capable of rotatable movement about its axis through an arc of 180 degrees in reversal, said connection being adapted to lock the temple in normal position and in adjusted position and being releasable prior to adjustment.

1,381,604. ENGINE-RADIATOR. CLINTON DE WITT WAGNER, Cedar Rapids, Iowa. Filed Apr. 7, 1919. Serial No. 288,071. 9 Claims. (Cl. 257—130.)

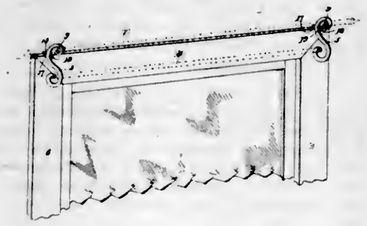


1. A radiator tube having wide, narrowly separated and practically parallel walls, and elastic means embracing the edges of the tube, and tending to collapse the tube intermediate its edges.

1,381,605. PROCESS OF EXTRACTING SOLUBLE ALBUMEN FROM WHEY. ALBERT C. WEIMAR, Grove City, Pa. Filed Mar. 18, 1920. Serial No. 366,937. 2 Claims. (Cl. 99—11.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A process of extracting soluble albumen from whey, consisting in neutralizing the acid content of whey, concentrating the whey at a temperature below the precipitating point of the albumen contained therein to a degree at which the greater part of the lactose content of the whey crystallizes, separating the said crystallized lactose from the whey, dialyzing the whey to remove the milk salts and some of the lactose, and finally, removing the remaining water by drying at a temperature below the precipitating point of the albumen, the resulting powder containing the albumen, a small amount of milk sugar, and some of the salts of the milk.

1,381,606. CURTAIN AND SHADE BRACKET. ONUFRE WERESIUK, New Castle, Pa. Filed Jan. 7, 1921. Serial No. 435,666. 4 Claims. (Cl. 156—24.)



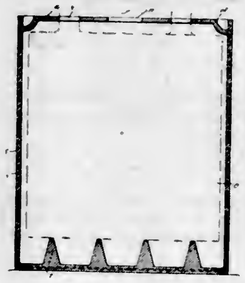
3. A curtain pole and shade roller supporting bracket comprising a body member of substantially S-shape in side elevation formed with an upstanding extension on its upper extreme end portion providing a curtain pole confining member and having its lower extreme end portion formed to receive and support the pintle of a shade roller, means to secure said body with its rear edge contacting the front face of a window frame, the free end portions of the body being terminated so as to support the shade roller and curtain pole in different vertical planes with the curtain pole farther from the window frame, said securing means including a hook having a depending pointed inner end and pivotally mounted uopn the rear upper portion of the body for vertical swinging movement, said hook being slidable transversely of the body, means to slidably adjust said hook, the slidable and pivotal mounting of the hook including a transverse pin carried by the body, and the hook being provided with a longitudinal elongated slot through which said pin extends.

1,381,607. DISPLAY-RACK. EDWARD B. WESTON, Dayton, Ohio, assignor to The Weston Paper & Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 12, 1918. Serial No. 253,673. 2 Claims. (Cl. 211—14.)



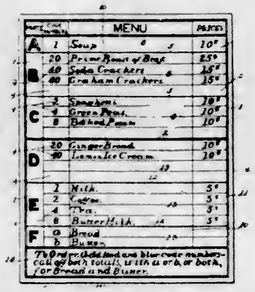
1. A display rack comprising side standards of upright bars and cross pieces, with removable shelves supported by said cross pieces, and tie rods connecting the cross pieces, with clamping nuts for the tie rods bearing on the cross pieces to brace the side standards, a vertical cross board at the upper part of the rack between the side standards, the ends of the shelves and the cross pieces being gained to receive the shelves between the cross pieces to resist the strain of the clamping nuts, and the vertical cross board and the shelves each provided with a longitudinal groove to receive its respective tie rod to resist bending strains.

1,381,608. BATTERY-JAR. OSCAR WITTMANN, Lincoln, Nebr. Filed Apr. 13, 1920. Serial No. 373,656. 8 Claims. (Cl. 204—29.)



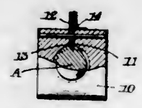
1. A battery jar, including side walls and a floor portion, ridges extending upwardly from said floor portion and within said jar, and a cover applied to said jar, said cover, side walls, and ridge portions being constructed of a resilient material.

1,381,609. ADVANCE-ORDER DEVICE. DIONYSIE WORONZOFF, New York, N. Y. Filed Sept. 29, 1920. Serial No. 413,545. 6 Claims. (Cl. 283—60.)



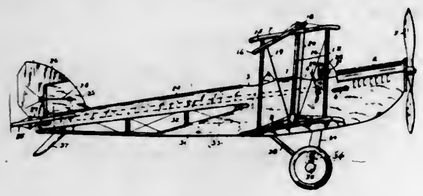
1. In an advance order device, the combination with a menu having articles of food shown thereon and code indicia designating said respective foods, of checks bearing codes comprising the sums of certain of the code indicia on the menu for the purpose specified.

1,381,610. NUT-LOCK. WILLIAM FLETCHER WORTMAN, Salisbury, New Brunswick, Canada. Filed Nov. 8, 1920. Serial No. 422,620. 1 Claim. (Cl. 151—24.)



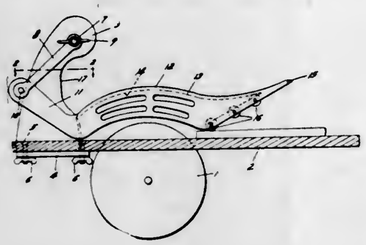
A locking nut comprising a nut having a radial slot extending partially of the depth thereof, a locking member pivotally mounted in the slot and having an inner cutting edge, and an angle shaped spring secured to the outer end of the locking member, as and for the purpose specified.

1,381,611. AEROPLANE. JOHN ZURUK-ZURINSKY, McKeesport, Pa. Filed Feb. 19, 1920. Serial No. 359,895. 7 Claims. (Cl. 244—29.)



1. An aeroplane comprising a fuselage having the lower part of the rear thereof formed with an enlarged triangular shaped opening.

1,381,612. SAW-GUARD. GEORGE A. ANDERSON, Ensley, Ala. Filed Oct. 24, 1919. Serial No. 333,844. 6 Claims. (Cl. 143—159.)



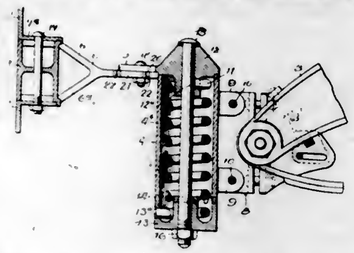
1. In combination, a standard mounted to project above the saw table in line with the saw, a swinging link pivoted to the top of the standard, and a freely floating saw-guard having a rearwardly projecting arm pivotally connected only at its rear end to the free end of said link, said guard being closed in overhead and said standard having its front edge cut away to permit the rear end of the guard to follow freely the rearward swing of its supporting link without binding against the standard, substantially as described.

1,381,613. GRAPE-JUICE SYRUP AND PROCESS OF TREATING THE SAME. SAM AVIS, Chicago, Ill., assignor of three-fourths to Abraham Y. Ameer, Chicago, Ill., and Joseph Yonan and Jeremiah N. Baboo, Gary, Ind. Filed Sept. 18, 1919. Serial No. 324,289. 2 Claims. (Cl. 99—11.)

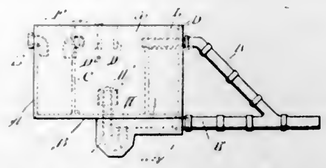
1. The process of treating grape juice for the neutralizing and removal of the active ferment thereof and permitting it to retain its sweet and saccharine qualities for an indefinite period which consists in first adding a predetermined quantity of whiting to the juice, thoroughly agitating the mixture of juice and whiting into intimate contact with the active ferment contained in the juice, permitting the mixture to settle, decanting off the juice so as to leave the ferment and whiting as a sediment and finally submitting the juice to a concentrating operation for producing a grape juice syrup.

1,381,614. AUTOMOBILE-BUMPER. LEROY BAUMGARTL, Chicago, Ill. Filed Mar. 7, 1921. Serial No. 450,271. 10 Claims. (Cl. 293—55.)

1. In a bumper, the combination of an impact member, and supporting members therefor adapted for attachment to the frame of a vehicle, and comprising arms adapted to swing about one end thereof, links connecting the free ends of said arms with said impact member, and yieldable members operatively connected with said arms and acting to resist the swinging movement of said arms under the force of impact against said impact member.

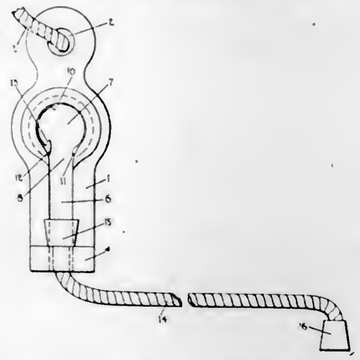


1,381,615. SEPTIC TANK. FRANK F. BEEBY, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to Cement-Gun Construction Company, Chicago, Ill., a Corporation of Illinois, and one-half to Cement Products Company, Wilmington, N. C., a Corporation of North Carolina. Filed Nov. 12, 1919. Serial No. 337,516. 11 Claims. (Cl. 210—6.)



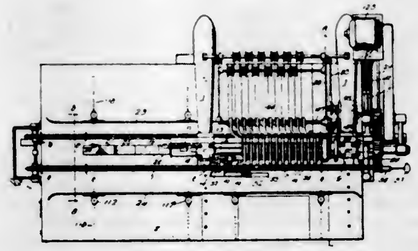
1. A closed septic tank for the disposal of sewage, comprising an outer chamber, and an inner chamber inclosed therein, a sewage inlet into said outer chamber, a connection between the two chambers, an outlet from the inner chamber, and means for forcing the sewage to travel entirely about the outer chamber before entering the inner chamber.

1,381,616. CHOKER-LINE ATTACHMENT. JULIUS C. CLAUSEN and JOHN BUCKLEY, Buckley Bay, British Columbia, Canada. Filed Jan. 27, 1921. Serial No. 440,541. 6 Claims. (Cl. 24—115.)



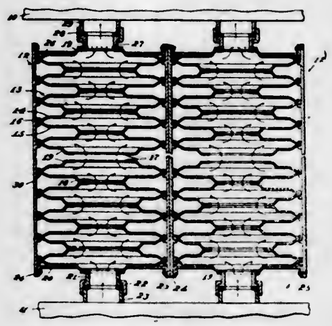
4. In a device of the character described, a choker line having a knob on one end, a plate adapted for attachment to a hauling line, said plate being provided with an aperture of greater diameter than said knob and a slot extending from the aperture of less width than the knob and wider than the line diameter, and means for closing the entrance to said slot.

1,381,617. MULTIPLE-HEAD STAPLING-MACHINE. EDWARD CRAIG, St. Joseph, Mich. Filed Apr. 30, 1917. Serial No. 165,542. 38 Claims. (Cl. 1—11.)



1. In a stapling machine, mechanism for inserting fasteners, intermittently operated means to feed the work forward into position below said mechanism to receive a fastener driving operation thereon and devices to thereafter shift the work sidewise into position to receive another operation of said mechanism thereon while said means are stationary, and before the work is again moved forward by said means, whereby the work travels straight ahead and then sidewise and then forward again while passing through the machine.

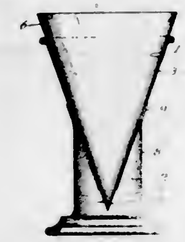
1,381,618. RADIATOR. HORACE A. CURETON, Los Angeles, Calif. Filed Feb. 19, 1918. Serial No. 218,086. 3 Claims. (Cl. 257—125.)



1. In a radiator, a series of hollow sheet metal units each of which comprises top and bottom plates secured together at their edges and each of said plates having an opening, spacing flanges surrounding said openings extending outwardly from the plates and forming raised portions adapted to seat on the raised portions of adjacent units, said units being soldered together at their raised portions, plates extending over the upper and lower units, walls secured to said plates extending alongside the units, and shoulders on said walls extending under the opposed edges of said units holding same in spaced relation to each other.

1,381,619. SANITARY CUP. DAVID F. CURTIN, Chicago, Ill. Filed May 29, 1916. Serial No. 100,555. 1 Claim. (Cl. 65—61.)

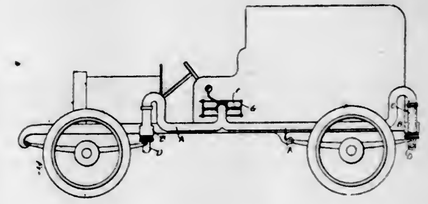
A device of the kind described, comprising a base, a tubular column rigidly attached thereto, the upper peripheral portion of said column being flared upwardly and outwardly to provide a beveled seat, and a socket member



in the form of an imperforate frusto-cone positioned upon and secured to said seat at a point approximately mid-way between the ends of said frusto-cone.

1,381,620. [WITHDRAWN.]

1,381,621. MEANS FOR ABSORBING THE REACTIONS OF THE SUSPENSION IN MOTOR-CARS AND ENGINES OF ALL KINDS. FRANCISCO DE URRUELA, Madrid, Spain. Filed Jan. 24, 1920. Serial No. 353,908. 10 Claims. (Cl. 267—65.)

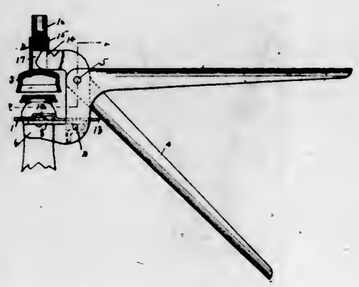


9. In a vehicle, the combination of a chassis; wheels for said vehicle; and means interposed between the chassis and said wheels and comprising for each wheel a metallic chamber of relatively great capacity having a cylinder at one end, a piston working in said cylinder and connected with the wheel, a compressible fluid contained in said chamber and said cylinder against which the piston is adapted to operate in supporting the chassis, the compressible fluid absorbing shocks and vibrations transmitted from said wheel said metallic chambers for each wheel extending to a central point, and a flexible tube located at said central point and connected with each of said metallic chambers said flexible tube being adapted to expand upon a predetermined compression of said fluid contained in said chamber whereby violent shocks are absorbed, and means for variably controlling said flexible member to compensate for varying conditions.

1,381,622. BOTTLE-CAPPING TOOL. JOHN K. E. DIFFENDERFFER, Baltimore, Md. Filed May 4, 1920. Serial No. 378,886. 2 Claims. (Cl. 226—84.)

1. A bottle capping tool comprising a handle having one end bent to form a segment shaped opening, jaws pivoted to said segment shaped end of said handle, a spring adapted to hold the said jaws in the open or closed

position, a bearing secured to said handle in vertical alinement with said jaws, a sealing head mounted in said



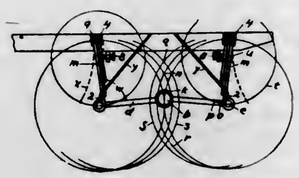
bearing above said jaws, and a handle pivoted to said first named handle and adapted to operate the said sealing head.

1,381,623. SPRING SUSPENSION FOR VEHICLES. THOMAS I. DUFFY, Chicago, Ill., assignor to Walter S. Burgess, Chicago, Ill. Filed Mar. 14, 1919. Serial No. 282,564. 13 Claims. (Cl. 267—29.)



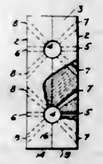
5. Spring suspension for vehicles comprising, in combination, an axle assembly, a main spring, a two armed lever hinged to the axle assembly and movably supported at its inner end by a vehicle part subject to rebound, with the arms thereof overlapping and disposed in planes at the sides of the axis of the main spring, spring seats on and intermediate the ends of said lever and spaced across the axis of the main spring, coiled springs on said seats and connections between said coiled springs and the end of the main spring.

1,381,624. SPRING SUSPENSION. ETHELBERT FAVARY, New York, N. Y. Filed June 22, 1915. Serial No. 35,516. 12 Claims. (Cl. 267—9.)



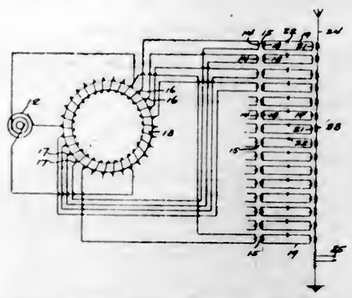
1. In a vehicle, a spring suspension supporting the load and comprising a substantially horizontal suspension member inflexible under longitudinal tension and connected to one part to be cushioned and a substantially vertical spring structure having one end connected to the suspension member and having the other end connected to the other part to be cushioned, the other end of the suspension member being supported from the frame.

1,381,625. FURNACE-BRICK. CLIFTON R. FINCH, New York, N. Y. Filed Nov. 18, 1919. Serial No. 338,903. 8 Claims. (Cl. 72—15.5.)



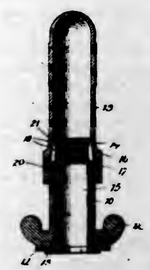
1. A brick for a furnace having a longitudinally extending chamber opening through the opposite ends of the brick, and ducts in the brick extending transversely with respect to the chamber and running from a plurality of points in the length of the chamber to the opposite lateral faces of the brick, said ducts connecting the chamber to the outside of the brick both through the middle and adjacent to the opposite longitudinal edges of said faces.

1,381,626. PROCESS OF AND APPARATUS FOR PRODUCING RADIOFREQUENCY-CURRENT. LEONARD F. FULLER, San Francisco, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Jan. 19, 1918. Serial No. 212,609. 12 Claims. (Cl. 250—36.)



7. An apparatus for producing radio frequency current, comprising a source of multi-phase alternating current in which each phase has short high potential impulses separated by relatively long time intervals, means for separately transforming each phase, and an output circuit associated with said transforming means.

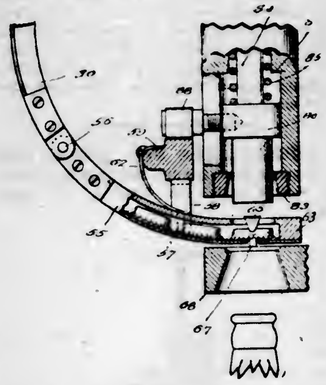
1,381,627. DUST-COVER FOR TIRE-VALVES. GORDON EUGENE GARRETT, Salt Lake City, Utah. Filed Aug. 2, 1920. Serial No. 400,730. 7 Claims. (Cl. 152—12.)



1. The combination with a threaded valve stem, of a nut threaded on said stem; a releasable clamp carried by

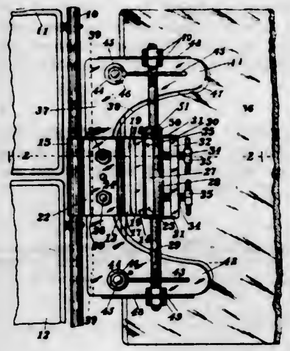
said nut, serving when set to lock said nut against rotation on said stem; and a removable dust cap serving to set or release said clamp by the application and removal of the dust cap.

1,381,628. BOTTLE-CROWNER. JOHN J. GAYNOR, Indianapolis, Ind., assignor to Meier-Gaynor Manufacturing Co., Indianapolis, Ind., a Corporation of Indiana. Filed July 5, 1919. Serial No. 308,807. 15 Claims. (Cl. 226—88.1.)



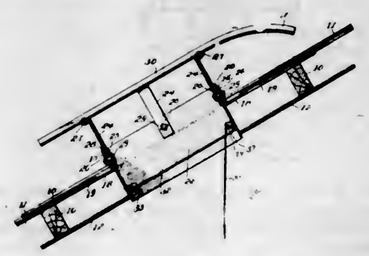
1. In a crowner, the combination of a crown chute having a movable discharge end, crowning mechanism movable past said chute, said crowning mechanism being provided with crown-supporting means arranged to remove a crown from said chute as it passes thereby, and means on said chute for coöperating with a crown on said crown-supporting means if the latter bears a crown as it approaches said chute for moving the discharge end of the chute out of position to have a crown removed from it by said crown-supporting means.

1,381,629. WINDSHIELD ATTACHMENT. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Filed Oct. 16, 1920. Serial No. 417,366. 2 Claims. (Cl. 296—84.)



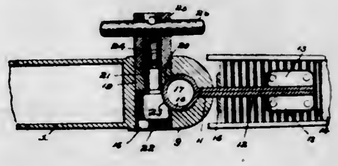
1. In a wing attachment for windshields, a clamp adapted for adjustable mounting upon a windshield frame and having an outwardly projecting arm with a forwardly opening socket in the outer end of the arm and extending vertically therein, a wing body, a vertically disposed rod spaced from and carried by the body and adapted to be moved laterally into and out of said socket, a clamping yoke slidably mounted on said rod adapted for adjustment from end to end thereof and being of slightly greater length than the socket whereby to engage across the opposite ends of the socket, and clamping screws carried by said yoke intermediate the ends of the same and adapted to be turned up against the closed side of said socket for binding the rod therein in various vertical adjusted and turned positions, whereby to support said wing body at different angles and heights upon the body of the windshield.

1,381,630. VENTILATOR. CHAUNCEY M. GOODRICH, U. S. Army. Filed Nov. 13, 1918. Serial No. 262,386. 4 Claims. (Cl. 98—4.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



4. A knock-down structure comprising a base member having a plurality of clefts to produce flanges bent substantially at right angles to the body of the base member, a casing formed of a strip of material bent to shape to engage in the opening formed by bending the flanges and against the flanges, a plurality of standards each engaging the flanges and the portion of the casing in contact therewith, a cover supported by the outer terminals of the standards in spaced relation to the casing, and a closure for said casing adapted to be movably coupled thereto.

1,381,631. SHOULDER-REST FOR GUNS. SAMUEL G. GREEN, U. S. Army. Filed Apr. 30, 1919. Serial No. 293,786. 6 Claims. (Cl. 42—72.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A shoulder-rest comprising a member attachable to a gun, a tubular slide extending through said member and carrying a shoulder-rest-piece, and means passing through said member for frictionally locking said slide in adjusted position.

1,381,632. CLOTH-STRETCHING APPARATUS. THEODORE J. HAAS, East Northport, and PAUL BLUMER, Brooklyn, N. Y., assignors of one-fourth to said Theodore J. Haas, one-fourth to said Paul Blumer, and one-fourth to Carl Haas and one-fourth to William Haas, New York, N. Y. Filed Nov. 10, 1919. Serial No. 336,916. 30 Claims. (Cl. 26—16.)

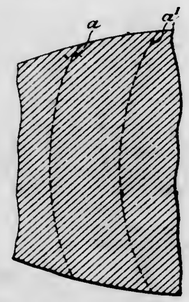
8. The combination with stretching-rolls to grip the leading end of a tube of jersey cloth, of a basket or form over which the tube is drawn by said rolls for laterally expanding the tube, a retarding device to coöperate with said rolls to stretch the tube longitudinally, said laterally expanding form being arranged between said retarding device and said rolls, and said retarding device comprising two members between which the tube is

clamped or held with sufficient firmness to enable the rolls to stretch the tube, while permitting the tube to advance slowly under the pull of the rolls, said form



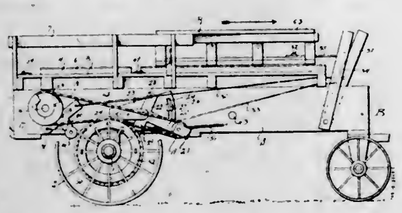
being an inverted cone, and said retarding device being detachable and constructed to slip up over the bottom of said cone, and springs to sustain said retarding device upon said cone.

1,381,633. ARMOR-PIERCING PROJECTILE. ROBERT ABBOTT HADFIELD, Westminster, ALEXANDER GEORGE MCKENZIE JACK, Sheffield, and ISAAC BERNARD MILNE, Totley, England. Filed Oct. 4, 1918. Serial No. 256,890. 9 Claims. (Cl. 148—21.)



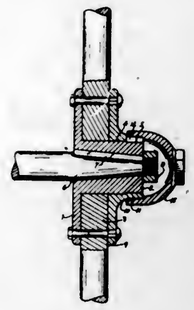
1. The process of hardening an armor piercing projectile made of nickel chromium steel which consists in heating the projectile all over to a hardening temperature of the order of about 800 to 860° C., then dipping it point downward to base in water and allowing it to remain there until properly hardened and then removing it from the water.

1,381,634. WAGON-RACK. LEWIS H. HALVERSON, Miller, Iowa. Filed Apr. 24, 1920. Serial No. 376,319. 4 Claims. (Cl. 214—81.5.)



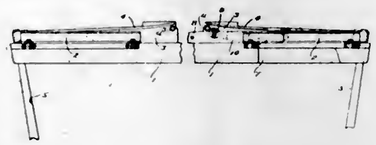
1. A rack of the class described comprising two relatively movable sections, a shaft operatively connected with one of the sections whereby rotation of the shaft in one direction imparts movement to said section in one direction, a rotatable drive member, a swinging arm supported in proximity to the drive member, a pulley carried by the arm, an endless chain operatively engaged with the shaft and with the pulley, means for swinging the arm toward the drive member, said arm when moved toward the drive member causing a stretch of the chain to engage the drive member, automatically operated means for moving the arm away from the drive member, a second arm supported for swinging movement, means connecting the first named arm and the second named arm whereby the same have unitary movement in the same direction, and means carried by the second named arm for contact with the stretch of the chain engaging the drive member when the first named arm is moved in a direction away from the drive member.

1,381,635. HUB-FLANGE FOR MOTOR-VEHICLES. JOSEPH LEROY HANNEGAN, Los Angeles, Calif. Filed Oct. 4, 1919. Serial No. 328,584. 1 Claim. (Cl. 301—84.)



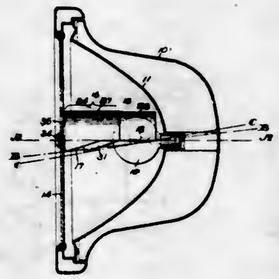
A hub flange for vehicle wheels comprising in combination with an inner flange, a hub extending from the inner flange, spokes fitting the inner flange around the hub, of an outer flange fitting against the outer faces of the spokes and secured to the inner flange by fastening devices passing through the spokes, an externally screw-threaded tapered nipple formed integral with the outer flange and extending therefrom closely upon the hub, radial longitudinal slots in said nipple extending inwardly from its outer end, and an internally taper threaded cap adapted to screw tightly upon the nipple to contract it to grip the hub.

1,381,636. BOBBIN-SMASH PREVENTER FOR WEFT-REPLENISHING LOOMS. THOMAS HAWORTH, Fall River, Mass. Filed May 17, 1920. Serial No. 381,956. 2 Claims. (Cl. 139—28.)



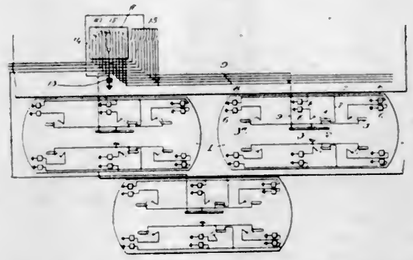
1. A bobbin-smash preventer for bobbin-changing weft-replenishing looms, comprising a shuttle-lock combined with the shuttle-box at the replenishing or magazine side of a loom and adapted to engage a filling carrier head standing up above the top of the inwardly-moving shuttle, located at such a distance inward beyond the lay-beam opening through which filling-carriers ejected by the replenishing operations descend that the intermediate portion of lay-beam beneath the shuttle will prevent the filling-carrier engaged with the lock from being swung downward through the bottom of the shuttle in consequence of such engagement, and operating to arrest the shuttle before it has passed into the shed in the warp-threads.

1,381,637. ILLUMINATING APPARATUS. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Oct. 23, 1917. Serial No. 198,044. 12 Claims. (Cl. 240—48.6.)



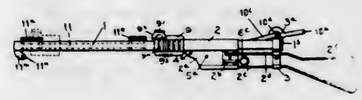
1. A lamp for vehicles comprising, in combination, a light-source, a light-concentrating reflector open at the front for the passage of both reflected and unreflected rays, light-intercepting means having a portion above the axis of said reflector and between said light-source and the upper portion of the reflecting surface of said reflector, and having another portion in front of said light-source and above and below said axis to obstruct the passage of forwardly emitted, unreflected rays above said axis and a part of those below said axis, said means having its bottom and front an opening to permit the passage of forwardly and downwardly directed unreflected rays as a diffused light onto the roadway and to permit the passage of direct rays from said light-source onto the lower portion of said reflecting surface to be concentrated and emitted through the front of said reflector as a beam, a means to support said light intercepting means forward of light source and independently of said light source, said light intercepting means being separated from said light source and said reflector above the axis of the latter by a space permitting the upward escape of heat from said light source.

1,381,638. MULTIPLE-UNIT DOOR-CONTROL ARRANGEMENT FOR CARS. FRANK HEDLEY, Yonkers, and JAMES S. DOYLE, Mount Vernon, N. Y. Filed Sept. 30, 1919. Serial No. 327,576. 12 Claims. (Cl. 105—341.)



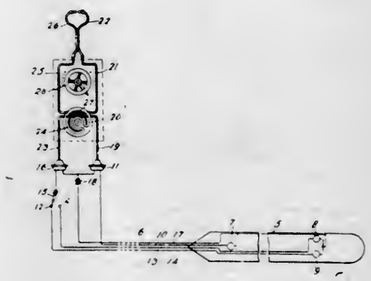
1. The combination with a car and a fixed station without said car, of means carried by the car for controlling the door movements on opposite sides of said car, means located on the station for controlling said means, and means for positively determining the side of the car on which the door movements may take place.

1,381,639. TOY GUN AND PROJECTILE. FRANK ILESS, Freeport, Ill. Filed Feb. 26, 1921. Serial No. 448,027. 13 Claims. (Cl. 124—12.)



1. In a toy gun, a barrel having a longitudinal slot; a spring actuated ejector therein; a catch adapted to lock said ejector when the spring is compressed; devices for releasing the catch; a slide mounted upon the barrel and a movable member connected with the slide and adapted to be projected into the slot and engage the ejector and then compress the spring as the slide is moved inwardly until the ejector is locked by the catch.

1,381,640. DETECTING UNDERWATER VIBRATIONS. JOSEPH WARREN HORTON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,492. 11 Claims. (Cl. 181—0.5.)



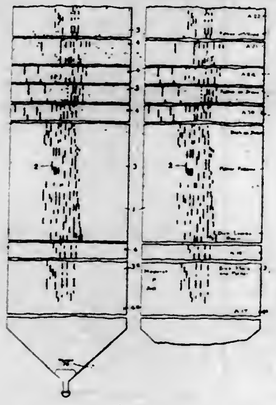
1. The method of determining the direction of a source of under-water sound which consists in towing through the water a group of three detectors spaced fixed distances apart in the form of a narrow V, obtaining a binaural balance between the detector mounted at the point of the V and one of the other detectors and then comparing said first detector with the other of said detectors.

6. In apparatus for determining the direction of underwater vibrations, the combination with a towing vessel of a device to be towed, a plurality of detectors mounted on said device in the form of a narrow V and spaced fixed distances apart, means for obtaining a binaural balance between a pair of detectors, and means for comparing one of said pair of detectors with a third detector.

1,381,641. MUSIC-ROLL FOR PIANO-PLAYERS AND METHOD OF PRODUCING SAME. ALICE SMYTHE JAY, Brooklyn, N. Y. Continuation of application Serial No. 90,698, filed Apr. 12, 1916. This application filed Aug. 23, 1920. Serial No. 405,255. 8 Claims. (Cl. 84—164.)

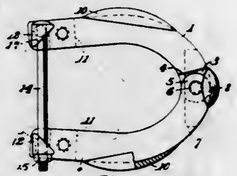
1. The method of producing music rolls for the purpose mentioned which consists in playing suitable music

while viewing the reproduction of the picture, thereby recording the music on a sheet by the usual method; and



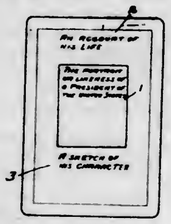
simultaneously indicating on the music roll indicia for positioning cues, substantially as described.

1,381,642. HORSESHOE. MATHEW JICHA, Bridgeport, Ohio. Filed Apr. 8, 1920. Serial No. 372,138. 4 Claims. (Cl. 168—19.)



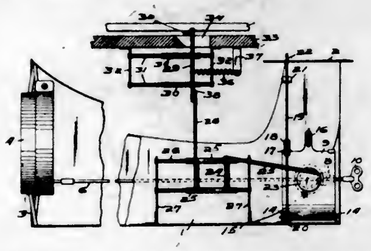
1. A horseshoe comprising two body sections pivotally connected at their front ends, a toe-calk formed on the under side of the pivoted end of one section and having an end portion underlying the bottom face of an adjacent portion of the other section, a toe guard extending upward from said toe-calk past the pivoted ends of said sections, side guards carried by said body sections in opposing relation, said side guards and toe guard being upwardly and inwardly inclined and having their inner faces curved to correspond approximately with the contour of a hoof embraced thereby, and adjustable means for securing the rear ends of said sections in fixed relation.

1,381,643. GAME OF CARDS. JOHN WILLIAM JOURDAN, Las Cruces, N. Mex. Filed Sept. 20, 1919. Serial No. 325,276. 1 Claim. (Cl. 46—25.)



A game comprising a pack of cards made up of a number of pairs, each pair consisting of a primary card having thereon the portrait of a President of the United States, an account of his life, and a sketch of his character, and a secondary card having thereon the name of the corresponding Vice President, the name of an important address or paper delivered by the President, an account of an historical event related to the President, and the initials of the President; the indicia on each pair of cards to distinctly relate to the President and his Vice President in such manner as to identify one card with the other.

1,381,644. TIME-CONTROLLED PHONOGRAPH. JAMES KANAKARIS, Toledo, Ohio. Filed Nov. 20, 1920. Serial No. 425,322. 4 Claims. (Cl. 161—23.)



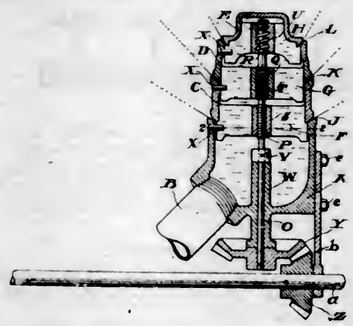
1. In combination with a phonograph having a release lever and an alarm clock having a time controlled mechanism for releasing the alarm, a spring, a shaft for supporting the spring and connected to a turn table, mechanism interconnecting the spring and the alarm mechanism of the clock for releasing the spring upon the operation of the time controlled mechanism, and a slidable frame operated by the spring and interconnecting the spring and the lever of the turn table.

1,381,645. CEMENTING WELLS. PHILO B. KINNEAR, Salt Creek, Wyo., assignor of one-half to David W. Lewis, Salt Creek, Wyo. Filed Jan. 4, 1921. Serial No. 435,043. 8 Claims. (Cl. 166—1.)



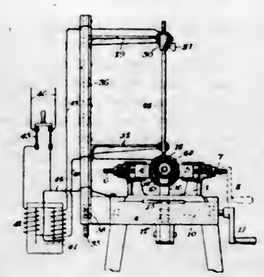
1. The method of cementing wells and the like, which comprises forming an annular space adjacent the walls of the well hole; forming an annular chamber within said annular space; introducing fluid into said chamber; closing the annular chamber from the atmosphere; pumping cement to the bottom of said chamber; pumping a measured quantity of fluid on top of the cement; placing a separating member on said measured quantity of water, means being located in the lower portion of said annular chamber for stopping said separating member; and pumping fluid into the annular chamber until the separating member reaches the stopping means.

1,381,646. SPRAY-HEAD. JOHN F. KIRGAN, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 13, 1920. Serial No. 409,912. 4 Claims. (Cl. 299—144.)



1. A spray head for spraying liquids, comprising a tubular body having an inlet, a plurality of separate and independent spray head sections arranged one over the other on said body forming discharge openings, means for simultaneously moving said sections different amounts longitudinally relatively to the body to adjust said discharge openings, and operative connections between adjacent sections for preventing relative rotation of said sections.

1,381,647. PROCESS OF AND APPARATUS FOR ELECTRIC-ARC WELDING. ROY C. KNOLL, Milwaukee, Wis. Filed Apr. 17, 1920. Serial No. 374,630. 10 Claims. (Cl. 219—8.)



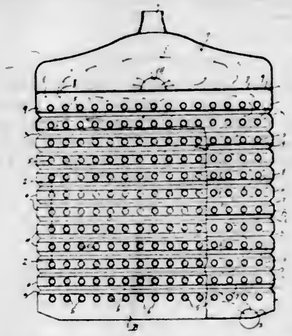
1. The process of electric arc welding which consists in heating on one side the juxtaposed parts to be welded by an electric current of comparatively low voltage and high amperage and fusing the heated parts together by an arc drawn from an electrode presented to the opposite side of the work with a current of higher voltage.

1,381,648. INK. HERMAN KRUSE, Jersey City, and WILLIAM C. KRUSE, Union, N. J. Filed Sept. 3, 1919. Serial No. 321,325. 4 Claims. (Cl. 134—31.)

1. An improved ink comprising an alumina black base, glycerin and Turkey red oil.

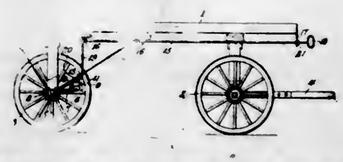
1,381,649. RADIATOR. JOHN T. LAMM and FRED K. HUFFMAN, Julesburg, Colo. Filed Feb. 7, 1920. Serial No. 357,045. 2 Claims. (Cl. 257—131.)

2. A radiator of the class described comprising a hollow casing having induction and eduction openings at the top and bottom thereof, a plurality of vertically spaced plates arranged within the casing and dividing the same into superimposed compartments, an end portion of each of the plates being provided with an opening affording communication with the compartment immediately therebelow,



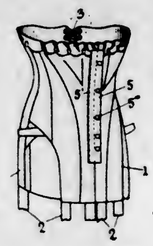
the walls of the casing being provided with inwardly extending corrugations, certain of said corrugations serving as supports for the plates, and air tubes extending through the casing at points between adjacent corrugations.

1,381,650. BAGGAGE-TRUCK HOLDER. CHARLES O. LARSON, De Kalb, Ill. Filed May 15, 1919. Serial No. 297,387. 4 Claims. (Cl. 188—31.)



1. A holding means for baggage trucks comprising a lock bar movable between and from between the spokes of one of the truck wheels, a support for the lock bar, means for connecting the support to the rear axle of the truck, and a crank rod connected to the lock bar for moving the same longitudinally, said crank rod extending to the front of the truck and there provided with means whereby it may be rocked on its longitudinal axis to project the lock bar between the spokes of the wheel and withdraw it therefrom, the entire holding means maintaining itself in any position whether locking or unlocking with no tendency to move from said position.

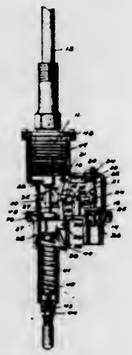
1,381,651. CORSET AND THE LIKE AND FASTENING SYSTEM THEREFOR. AUGUSTE JEAN LECOUTRE, Worcester, Mass., assignor to Royal Worcester Corset Co., Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1918. Serial No. 225,221. 3 Claims. (Cl. 2—74.)



2. A fastener for corsets and the like including an eye member, a stud for engagement in said eye member, and

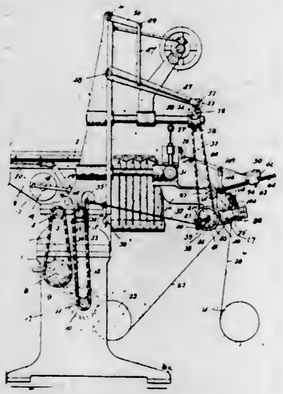
a snap fastener socket adapted to snap over the head of the stud and to grip the stud after the stud has been engaged with the eye member, said fastening means reducing the play between stud and eye member in a direction longitudinal of the stud, and said socket extending beyond the outer end of said stud.

1,381,652. THERMOSTATIC GAS-VALVE CONTROL. LUTHER D. LOVEKIN, Philadelphia, Pa., assignor to The Lovekin Water Heater Company, Philadelphia, Pa., a Firm composed of Margaret J. Fowler, J. Scott Fowler, and Phillip D. Fowler. Filed May 22, 1917. Serial No. 170,155. 4 Claims. (Cl. 236—48.)



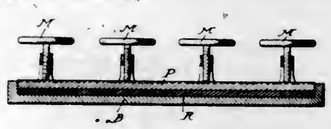
2. In an automatic gas regulator, a thermostatic element, a rod rigidly connected to and longitudinally adjustable with respect to said element, a retarding spring in line with the said rod, a compression adjustment for said spring and a snap-action valve-operating mechanism including a lever free from engagement with said retarding spring and carried by said rod, said mechanism being adjustable as to range and critical temperature by the adjustment of the rod and the spring.

1,381,653. TEXTILE-MACHINE. CHARLES M. MARS, Dorchester, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed July 10, 1916. Serial No. 108,407. 59 Claims. (Cl. 139—94.)



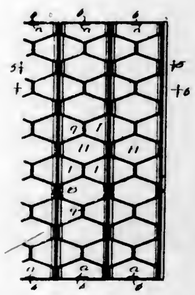
1. Textile mechanism comprising in combination, drawing-in mechanism, means for supporting a plurality of groups of warp threads, and automatic traversing means combined with compensating means for a portion only of the support for said groups of warp threads.

1,381,654. PROCESS OF RECLAIMING RUBBER. EMIL MUSCHEWSKE and WILLIAM W. WOOD, Los Angeles, Calif. Filed Dec. 13, 1920. Serial No. 430,291. 8 Claims. (Cl. 18—52.)



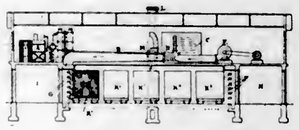
8. A process of reclaiming rubber, including first finely dividing old rubber stock then molding it under heavy pressure and subjecting it to heat during molding, then allowing it to stand in the air until cool, then again subjecting it to a temperature of approximately 300° F. for about sixty minutes.

1,381,655. RADIATOR-CORE. FRED M. OPITZ, Racine, Wis. Filed Nov. 10, 1919. Serial No. 336,934. 6 Claims. (Cl. 257—130.)



1. In combination, a pair of gutter members having flat joining margins lying in contact to form a tube, a pair of filler strips corrugated into a regular pattern, the corrugations of each strip being indented to embed said gutter members, the front and back edges of the filler strips extending in front and back of the joining margins and lying in contact, said joining margins and said extensions of the corrugations being joined by solder, the joints between the margins of the gutters and between the extensions of the corrugations lying in the same plane.

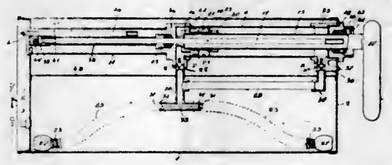
1,381,656. TREATMENT OF WOOD FOR SEASONING IT. MARIUS-PAUL OTTO, Paris, France. Filed May 22, 1919. Serial No. 299,061. 1 Claim. (Cl. 99—12.)



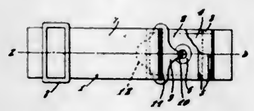
The herein described process of seasoning wood by the combined action of heat and of ozone, which consists in submitting the wood successively to hot air acting alone, to ozonized air acting alone, and to a mixture of hot air and of ozonized air acting together, and moving the wood during each of these three successive actions in a direction opposite that in which the gaseous current flows.

1,381,657. FIRE-EXTINGUISHER. GEORGE T. PEARSONS, New York, N. Y. Filed June 28, 1916. Serial No. 106,322. 12 Claims. (Cl. 299—98.)

6. In a syringe, the combination with a reservoir having an outlet, of a piston chamber; a piston to reciprocate in said chamber; a compression chamber connected to the reservoir outlet; a tube reciprocable with the piston to connect the piston chamber with the compression chamber; a rod to reciprocate the piston and tube; a tube in the compression chamber fixed at one end to the piston chamber and the other end extending adjacent the reservoir outlet in which the reciprocable tube engages, said tube having lateral ports to connect it with the compression chamber; a spring influenced valve carried at the free end of said tube to close the end of the reciprocable tube when the piston is in its innermost position; and coöperating locking means carried by the piston rod and reservoir to maintain the piston in its innermost position with the end of the reciprocable tube closed by the valve, substantially as and for the purpose specified.

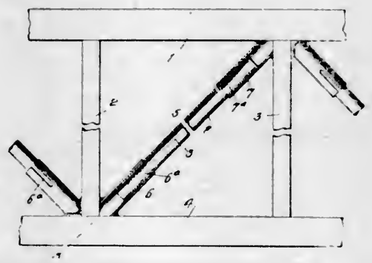


1,381,658. GARTER. HOLMES E. PENN, Madison, N. C., assignor to Penn Bros. Suspender Company, Inc. Filed Nov. 24, 1919. Serial No. 340,208. 2 Claims. (Cl. 241—5.)



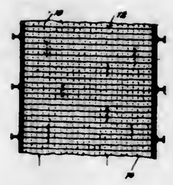
1. A garter comprising a band one end of which is fashioned into a loop, the end of the outer wall of the loop being turned in; a stiffener within the loop and having one end received between the outer wall of the loop and the turned in end thereof; means for uniting the outer wall of the loop, the inner wall thereof, and said turned in end; a tubular eyelet engaged with the stiffener and with the outer wall of the loop and shielded by the inner wall of the loop; and a hook on the other end of the band, the hook being engaged in the eyelet.

1,381,659. TENSIONED FRAME. JOHN W. RAPP, Flushing, and JOSEPH VANORIO, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Filed Dec. 28, 1917. Serial No. 209,355. 4 Claims. (Cl. 244—31.)



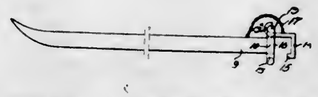
1. A tensioned frame embodying a suitable frame; a tension element under tension therein and having a telescoped joint formed between adjacent parts, one of which parts has been linearly expanded by heat and permanently secured to the other part of said element in such expanded condition to provide tension in said element.

1,381,660. METHOD OF REMOVING SOLIDS SUSPENDED IN MOVING GASES. ROSS BUXTON RATHBUN, Salt Lake City, Utah. Filed Oct. 31, 1918. Serial No. 260,464. 10 Claims. (Cl. 183—114.)



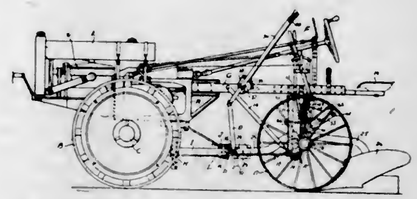
1. In the art of removing solids from gaseous bodies, the process which consists in passing all particles of a body of gas along substantially parallel lines and through a series of electro-static fields disposed in the direction of flow of the gas so that all of the gas will be compelled to pass through more than one field and equally treated, each of said fields characterized by having lines of force which extend in the general direction of flow of the gases and in which the lines of force converge to increase the potential gradient and thus increase the zone of ionization.

1,381,661. CAR-HOPPER-RELEASING DEVICE. PAUL E. REIDER, Philadelphia, Pa. Filed Oct. 28, 1920. Serial No. 420,178. 3 Claims. (Cl. 81—69.)



1. A device of the character described including an elongated bar having a head at one end; said head including a slot; and a finger having a hook adapted to be inserted within said slot and pivot on a portion of the head immediately adjacent said slot and remote from said bar; substantially as described.

1,381,662. TRACTOR-PLOW. ARTHUR W. REYNOLDS, Newtown, Conn., assignor of one-half to Edward Benedict, Newtown, Conn. Filed Oct. 14, 1920. Serial No. 416,834. 15 Claims. (Cl. 97—30.)



1. In combination, a tractor having tractor beams and a draw bar, and a plow having a rectangular frame and a plow beam, said rectangular frame secured to said tractor beams and located therebeneath and said plow beam extending through said rectangular frame and having connection with said draw bar.

1,381,663. VISE-STAND. LAWRENCE F. ROEDER, Philadelphia, Pa. Filed May 3, 1918. Serial No. 232,191. 2 Claims. (Cl. 81—41.)

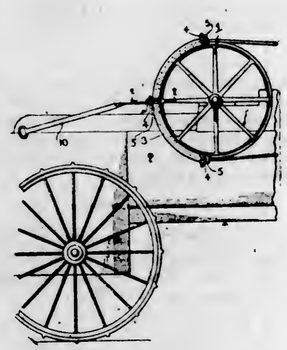
1. In a vise stand the combination with two pipes, adjustable relative to each other, one of said pipes having

a polygonal opening at one end, of a feed nut having a polygonal portion for registration with said opening



whereby said feed nut may be detachably mounted in the end of the pipe and a screw having threaded engagement with the feed nut as shown and described.

1,381,664. BELT-GUIDE. VIRGIL ROGERS, Gibbon, Nebr. Filed Jun. 30, 1919. Serial No. 274,029. 1 Claim. (Cl. 74—51.)



A belt guide of the character described comprising a pair of segmental members arranged upon opposite sides of the wheel, brace bars connecting said members together, angle irons having slots formed therein and being secured to the segmental members and brace bars, means for securing said members together, a center brace bar having one end extended and pivotally mounted upon the frame of the engine, said segmental guide members being adjustably secured to the brace bars so that said members may be moved toward and from each other according to the width of the wheel and a pull-out lever being attached to said center brace bar.

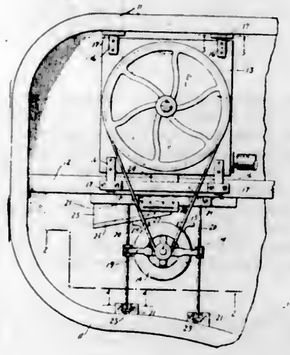
1,381,665. EGG-BEATER. JOHN M. ROSTOCKI, Pittsburgh, Pa. Filed Jan. 6, 1921. Serial No. 435,372. 2 Claims. (Cl. 259—144.)

1. A device for the purpose set forth comprising a shank provided with a series of lengthwise extending rows of apertures, the apertures of each row arranged out of alinement with respect to each other and one in advance of the other, sets of overlapping whipping elements, each



of said elements formed from a resilient member of the same length having its ends anchored in apertures of opposed rows of apertures.

1,381,666. POWER-UNIT MOUNTING FOR MUSICAL INSTRUMENTS. GUY MANLY RUSSELL, Syracuse, N. Y., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1917. Serial No. 208,759. 3 Claims. (Cl. 248—30.)

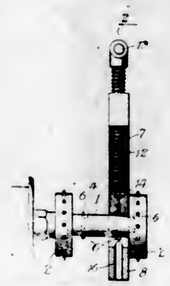


1. Supporting means for an electric motor comprising, in combination, a yoke affixed to the motor casing, said yoke being provided with bosses bored at right angles to the armature shaft of the motor; a pair of rods passing through said bosses; vibration absorbing bushings for said bosses; supports for the ends of said rods; and vibration absorbing bushings between said rods and said supports.

2. Supporting means for an electric motor comprising, in combination, a yoke affixed to the motor casing, said yoke being provided with bosses bored at right angles to the armature shaft of the motor; a pair of rods passing through said bosses; supports for the ends of said rods; and vibration absorbing bushings between said rods and said supports.

3. In a power unit for an automatic instrument, a pump associated with the frame of the instrument; supporting extensions from said pump adapted to be slidably received by said frame; vibration absorbing material interposed between said extensions and said frame; an electric motor; means for slidably supporting said motor upon said frame; vibration absorbing material interposed between the motor supports and the frame; and means including vibration absorbing means for spacing said pump and motor upon opposite sides of a central frame member.

1,381,667. SPROCKET-PIN DRIVER FOR MOTION-PICTURE MACHINES. CHARLES W. RYDER, Chicago, Ill., assignor of one-half to William Dietz, Chicago, Ill. Filed Oct. 2, 1919. Serial No. 327,988. 2 Claims. (Cl. 29—86.1.)



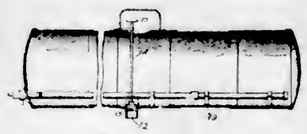
1. A tool of the class described, comprising a yoke having an extended part having on its upper face a transverse V-shaped seat, and a screw-threaded member supported on said yoke and axially adjustable toward and away from said seat, said extended part having an aperture therethrough in alinement with the longitudinal axis of said screw-threaded member, said member being adapted to effect the insertion or extraction of a pin into and from a shaft supported in said V-shaped seat.

1,381,668. PISTON-RING. ALEXANDER K. SCHAAF, New York, N. Y. Filed Apr. 3, 1920. Serial No. 371,016. 1 Claim. (Cl. 74—109.)



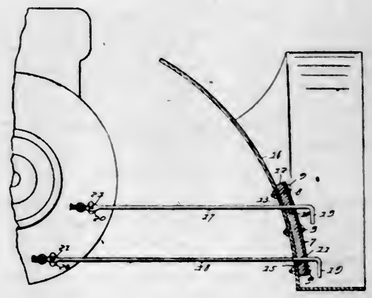
A single piece piston ring having an overlapping joint and provided with two edges one overhanging the other and longer than the other, at each side of the ring, the said edges being so arranged and disposed that one part runs across the other part, and these edges have a quadrilateral in common and adjacent edges on opposite ends approach each other more closely at the exterior periphery of the ring than at the interior periphery.

1,381,669. TANK-CAR-HEATING APPARATUS. EDWARD A. SCHREIBER, Chicago, Ill., assignor to Egbert H. Gold, Chicago, Ill. Filed Apr. 30, 1917. Serial No. 165,530. 15 Claims. (Cl. 257—198.)



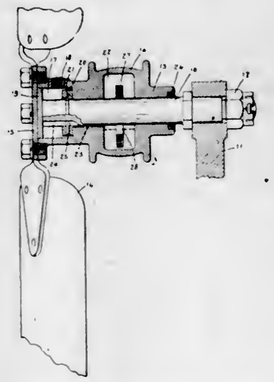
4. In a tank car, the combination with a tank, the end wall of which is formed with an aperture, of a hollow header secured to the outside of the end wall so as to cover said aperture, an inflow pipe secured to the outer wall of said header, a return pipe secured to the inner wall thereof and surrounding and substantially concentric with said inflow pipe, means for supporting said pipes intermediate their ends which permit their expansion and contraction and supply and discharge pipes on the outside of the tank connected with said header so as to communicate with said inflow and return pipes, respectively.

1,381,670. CONTROLLING DEVICE FOR PETCOCKS OF AUTOMOBILES. HENRY SCHUMACHER, Alma, Mo. Filed July 29, 1920. Serial No. 399,756. 1 Claim. (Cl. 137—139.)



In a controlling device for pet-cocks of automobiles, rods connected to said pet-cocks, said rods having position indicators thereon, a flexible member anchored to an automobile, said flexible member having apertures through which the rods extend, said openings being normally smaller than the rods, a plate superimposed on the flexible member and secured therewith, the said plate having apertures coinciding with the apertures of the flexible member to receive the rods, the said apertures of the plates being larger than the apertures of the said flexible member.

1,381,671. LUBRICATING MEANS FOR FANS. LOUIS SCHWITZER, Indianapolis, Ind., assignor to Automotive Parts Company, Indianapolis, Ind. Filed Jan. 2, 1920. Serial No. 348,839. 4 Claims. (Cl. 64—31.)



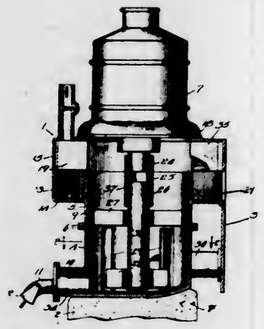
1. A lubricating system for hubs and the like including a stationary spindle upon which the hub is rotatably mounted, said hub having an annular chamber therein, means for supplying said chamber with lubricating material, and an annular absorbent ring surrounding said spindle and bearing thereon and within said chamber in position to engage the lubricating material contained therein and be rotatable with said lubricating material to cause it to be carried to said spindle for lubricating the bearing surface thereof.

1,381,672. DENTAL-NAPKIN HOLDER. WALLACE F. SHAW, Westfield, Mass. Filed Dec. 17, 1920. Serial No. 431,328. 9 Claims. (Cl. 32—20.)



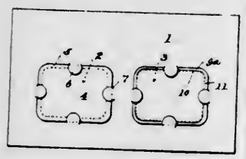
1. As an improved article of manufacture, a dental napkin holder comprising a clamp attachable to a tooth, and an arm of ductile material extending from said clamp, said arm having the general curvature of the roof of the mouth transversely, and adapted to be bent into closer conformity to the transverse curvature of the roof of the mouth, whereby a napkin may be held by said arm securely against the roof of the mouth.

1,381,673. AGITATING-MACHINE. CHARLES F. SHERWOOD, Salt Lake City, Utah, assignor, by direct and mesne assignments, of ninety per cent. to George T. Hansen, Salt Lake City, Utah, and five per cent. to Thomas A. Ryan, and five per cent. to B. O. Jones, Denver, Colo. Filed Apr. 28, 1919. Serial No. 293,286. 16 Claims. (Cl. 259—96.)



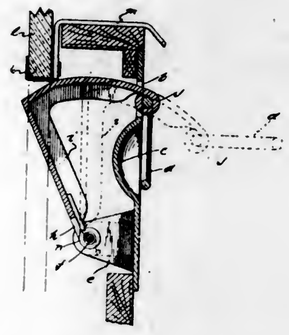
1. In a device of the class described an agitating member adapted to have violent agitating impact with a fluid mass only, said members having an impressionable resilient impact surface for engaging with the particles of said fluid mass.

1,381,674. FILM-MOUNTING. CLARENCE O. SIMPSON, St. Louis, Mo. Filed July 12, 1920. Serial No. 395,661. 4 Claims. (Cl. 40—158.)



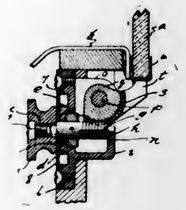
1. A mount consisting of a sheet of opaque material having an unobstructed opening therein, in combination with a translucent film of greater width and greater length than the opening and superposed over the same, with the edges of the film lying farther out than the edges of the opening, and tongues carried by the opaque sheet and projecting across the edge of the opening, the side edges of the tongues extending outwardly past the side edges of the opening to engage and retain the side edges of the film.

1,381,675. WINDOW-SUPPORTING LATCH. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Oct. 16, 1920. Serial No. 417,433. 3 Claims. (Cl. 292—202.)



1. In a window construction, the combination of a frame provided with a window pocket, a window slidable vertically therein, and a latch comprising an escutcheon plate securable to the window frame and provided with an opening therein, an elbow-like latch member pivoted at its lower end and having its upper free end adapted to protrude through said opening, a spring for ordinarily forcing the latch into the window well, and the joint portion of the elbow into the path of travel of the window and means secured to the free end of the upper arm of the elbow for drawing the latch member out of the window well to allow the descent of the window.

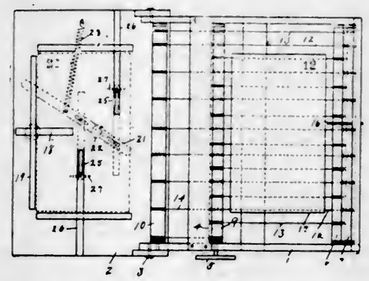
1,381,676. WINDOW-SUPPORTING DEVICE. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Oct. 16, 1920. Serial No. 417,434. 12 Claims. (Cl. 292—199.)



1. In a window construction, the combination of a window frame provided with a window pocket, a window slidable therein, and a supporting device comprising a worm wheel segment, and a worm engaging the teeth of the segment to raise the same under the window when elevated.

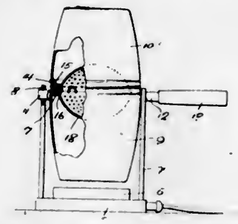
1,381,677. DEVICE FOR REVERSING PRINTED FORMS. EDGAR J. STENNER, Baltimore, Md., assignor of one-third to Herbert F. Czarnowsky and one-third to Lewis A. Engel, Baltimore, Md. Filed Jan. 30, 1919. Serial No. 273,948. 1 Claim. (Cl. 271—76.)

A device for reversing printing forms, comprising a frame 1, a driven roller 4 revolubly mounted in and having one end projecting through said frame, a wheel 5 on the end of said roller 4, rollers 6, 7, 8, 9, 10, and 11 also revolubly mounted in said frame, belts 12 connecting the rollers 4, 6 and 7 and impinging against the rollers 8 and adapted to carry the printing forms, belts 13 passing around the rollers 8 and 9, belts 14 passing around the



rollers 9 and 10, belts 15 passing around the rollers 10 and 11, and a table adapted to receive the printing forms as they fall from said rollers.

1,381,678. COFFEE-POT. GABRIELLA TUMARELLO, Benld, Ill. Filed Aug. 11, 1920. Serial No. 402,771. 2 Claims. (Cl. 53—3.)



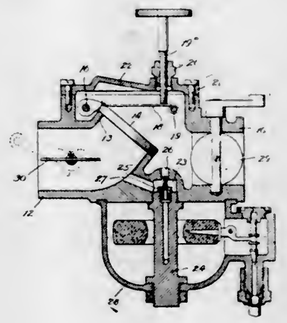
1. In a device of the character described, a support having openings, a pot-section provided with trunnions pivotally supported within said openings, said pot-section being provided at its open end with screw threads, and having an inwardly projecting annular flange arranged interiorly thereof near said screw-threads, a coacting pot-section having its open end provided with screw-threads to engage the screw-threaded end of the first named pot-section and provided near such screw-threads with an inwardly extending annular flange, a strainer element embodying a pair of strainer-sections having annular flanges adapted to be assembled in close superposed relation between the first named flanges and to be clamped therebetween, means to heat either pot-section, and a handle carried by one trunnion.

1,381,679. BINDING DEVICE FOR SKEINING-MACHINES. HARRY E. VERRAN and MAX O. CLAUSS, New York, N. Y., assignors to H. E. Verran Company, a Corporation of New York. Original application filed Mar. 27, 1911, Serial No. 617,039. Renewed Dec. 15, 1917. Serial No. 207,357. Divided and this application filed June 14, 1918. Serial No. 239,971. 5 Claims. (Cl. 140—93.)



4. In a skeining machine, means for feeding a binding wire, a guide for receiving the end of said wire and acting to bind the same, and means for severing the bound portion of the wire.

1,381,680. CARBURETER. HARRY C. WAITE, Elgin, Ill., assignor to Thermo Carburetor Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 26, 1917. Serial No. 164,718. 2 Claims. (Cl. 261—63.)



1. In a carbureter, a mixing chamber, a fuel nozzle, an inlet air passage of elbow-form, a valve between said passage and chamber, an air shunt passage through the wall of the inlet air passage, the inner end of which terminates in an enlarged chamber surrounding the fuel nozzle, a comparatively restricted passage leading from said enlarged chamber to the mixing chamber, said shunt passage and its connections constituting a primary air passage and discharging posterior to the valve between the air inlet and mixing chamber and in the path of the air issuing from beneath the valve, whereby an aspirating effect is produced, as set forth.

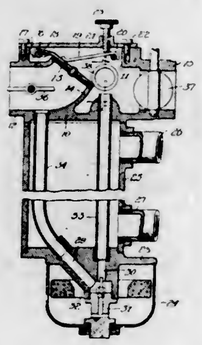
2. In a carbureter, a mixing chamber, a fuel nozzle, an upwardly extending air inlet passage terminating at its innner end in said chamber, a valve between said passage and chamber, the air inlet passsage being provided with an open bore in the lower wall thereof, said bore connecting at its inner end with an enlarged chamber surrounding the fuel nozzle and terminating in a comparatively restricted passage leading into the mixing chamber; the discharge end of said last-referred to passage being posterior to the valve between the air inlet and mixing chamber and in the path of the air issuing from beneath the valve, whereby an aspirating effect is produced, as set forth.

1,381,681. CARBURETER. HARRY C. WAITE, Elgin, Ill., assignor to Thermo Carburetor Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1917. Serial No. 190,462. 2 Claims. (Cl. 261—12.)

1. In a carbureter, a heater adapted to receive the exhaust gases of an internal-combustion engine, a casing connected with said heater and having a mixing chamber therein, a main air passage leading to said chamber, a valve between the main air passage and mixing chamber, a fuel inlet, a shunt air passage anterior to the valve and leading from said main air passage and terminating in an enlarged chamber surrounding the fuel inlet, and a passage leading from said last-referred to chamber through the heating chamber and terminating in the mixing chamber posterior to the valve separating same from the main air inlet, whereby the fuel is heated in the presence of a small proportion of air and then mixed with a larger proportion of air at atmospheric temperature.

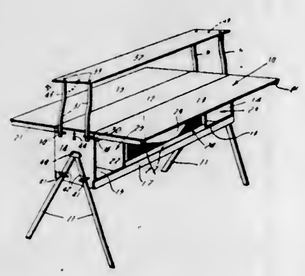
2. In a carbureter, a heater adapted to receive the exhaust gases of an internal combustion engine, a casing connected with said heater and having a mixing chamber therein, a main air passage leading to said chamber, a valve between the main air passage and mixing chamber, a fuel inlet, a shunt air passage of relative restricted area

to the main air passage and opening from the lower wall thereof anterior to the valve and leading from said main air passage and terminating in an enlarged chamber surrounding the fuel inlet, and a passage leading from said last-referred to chamber through the heating chamber and



terminating in the mixing chamber posterior to the valve separating same from the main air inlet, whereby the fuel is heated in the presence of a small proportion of air and then mixed with a larger proportion of air at atmospheric temperature.

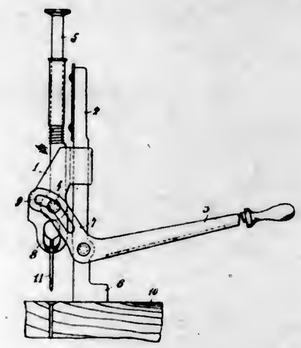
1,381,682. FOLDING BOX-TABLE. WILLARD M. WEBSTER and GEORGE D. WERNLI, Los Angeles, Calif. Filed July 21, 1919. Serial No. 312,355. 5 Claims. (Cl. 190—12.)



2. A table of the character described, comprising a box embodying a removable top, a bottom, ends, side rails, and having unclosed sides, side leaves hinged to said box and adapted to be swung upwardly to form a table with said top and to be swung against said side rails to form sides for the box, said top being removable independently of said side leaves whereby access may be obtained to the box through the top when the side leaves are swung downwardly, and means operative when said leaves are moved to said side-forming position to lock the leaves in this position.

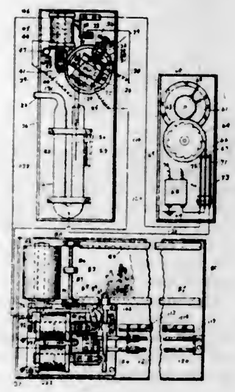
1,381,683. NAIL-EXTRACTOR. GREGOR WEINBEER, Nuremberg, Germany. Filed Mar. 19, 1921. Serial No. 453,850. 2 Claims. (Cl. 254—22.)

1. An improved nail extractor comprising in combination a vertical support, pincers composed of a long arm, of a short arm and of the jaws, a pivot pin for said jaws, means for guiding said short arm upon said support, an angle lever pivotally fixed to the lower part of said sup-



port and composed of a long arm and of a fork-shaped short arm, said short arms having guide slots for the pivot pin of the jaws of the pincers.

1,381,684. ELECTRIC RECORDER. HORACE H. WELCH, Chicago, Ill. Filed Aug. 8, 1918. Serial No. 248,840. 20 Claims. (Cl. 234—20.)

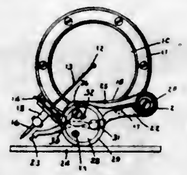


1. A recording system of the character described comprising in combination an electric-circuit, an electro-magnetic operating means and an electro-magnetic recorder in said circuit, and means including said electro-magnetic operating means to send a regularly pulsating electric current through said circuit for a period corresponding to the present status of a variable condition, whereby the recorder registers such status, substantially as described.

1,381,685. AUTOMATIC GRAVITY-STOP FOR PHONOGRAPHS. WALTER R. WHETSEL, Richmond, Ind. Filed Aug. 28, 1920. Serial No. 406,631. 7 Claims. (Cl. 192—116.)

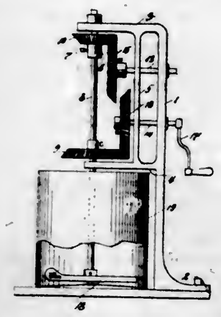
1. A device for arresting the playing of a phonograph record, including a sound reproducing medium, adapted to engage said record, a brake member eccentrically pivoted on said medium, an arm pivoted at one end and provided with a finger on the other end adapted to engage and be guided by said grooves, and means for normally holding said brake in elevated position, so arranged that upon the arresting of the movement of said medium by the last

groove and the continued inward movement of said finger caused by said grooves, said arm will be moved out of normal position for permitting said holding means to release said brake and permit it to frictionally engage the



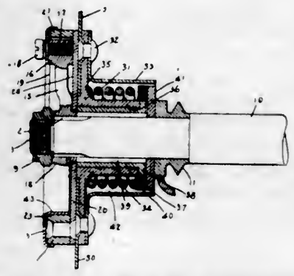
surface of said record and prevent the further movement thereof, said brake being so pivoted that the inertia of said record will cause said brake to elevate the needle and finger from the surface thereof.

1,384,686. DEVICE FOR MIXING MATERIALS. GEORGE WHIGELT, Dongon Hills, N. Y. Filed July 7, 1920. Serial No. 394,475. 4 Claims. (Cl. 74—7.)



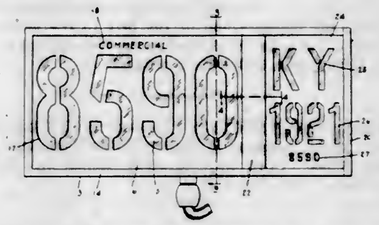
1. In a device of the class described, a stand, a rod supported thereby in a movable relation, relatively large and small gears mounted on the rod, a shaft carrying a small gear to mesh with the said large gear, a shaft carrying a large gear to mesh with the first named small one, and means to operate either shaft at will.

1,381,687. FAN CONSTRUCTION. D'ORSAY MCCALL WHITE, Indianapolis, Ind., assignor to La Fayette Motors Company, Indianapolis, Ind., a Corporation of Delaware. Filed July 12, 1920. Serial No. 395,706. 3 Claims. (Cl. 64—96.)



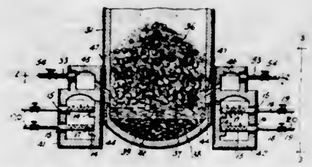
3. A fan construction comprising in combination a driving shaft, a friction driven plate, a friction driving plate, yielding means normally maintaining said plates in frictional driving engagement, fan means associated with the driven friction plate, a plurality of driven lugs upon said driving plate, a spider including a plurality of driving arms, said arms being in spaced relation with said driven lugs, cushioning means between said driving arms and said driven lugs, a driving shaft rigid with said spider for rotating said fan means, rim means associated with said friction driving plate, and cover means associated with said friction driving plate and said rim means to form a cushioning chamber for the cushioning means between the driving arms and the driven lugs.

1,381,688. LICENSE-PLATE. JULIUS YOUNG, Louisville, Ky. Filed Jan. 10, 1921. Serial No. 436,154. 1 Claim. (Cl. 40—133.)



A rectangular housing having an open face with flange means integral with the edges of said open face rectangular housing and upon three sides of said open face, said flange means being suitably shaped to form a groove, a relatively permanent license indicating means slidably supported in said groove means, and a securing member also supported in said groove means for retaining said relatively permanent license indicating means in said groove, and a relatively renewable license indicating means also slidably seatable in said groove and having one edge bearable upon said securing means, and detachable flange forming means adapted to be rigidly secured to the housing to secure the securing means and both license indicating means in the groove to close said housing.

1,381,689. PROCESS FOR THE REDUCTION OF IRON AND LEAD ORES. ROBERT J. ANDERSON, El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz., a Corporation of Arizona. Original application filed Mar. 6, 1919, Serial No. 281,037. Divided and this application filed Nov. 5, 1919. Serial No. 335,937. 2 Claims. (Cl. 75—17.)



1. A process for the reduction of ores consisting in the maintenance of independent primary and secondary combustion processes, the primary combustion process comprising the development of substantially complete combustion and the delivery of the gases derived therefrom to the ore, the secondary combustion process comprising the development of partially complete combustion, with production of an excess of carbon and the delivery of the products of such secondary combustion to the ore independently of the delivery of the gases derived from the primary combustion process for the utilization of the excess carbon in the reduction of the ore.

1,381,690. BUCKLE. LAWRENCE E. BAER, Attleboro, Msss., assignor to Baer & Wilde Company, Attleboro, Mass. Filed Mar. 19, 1921. Serial No. 453,567. 6 Claims. (Cl. 24—77.)

1. In a belt buckle, a female member composed of two telescoped parts of U-shape in cross section to form front

and back plates, the free longitudinal edges of the front plate being rolled inwardly over the back plate to hold the latter in position and to form a female member, adjustable belt engaging means borne by the back plate, a male member having curled longitudinal edges received by the



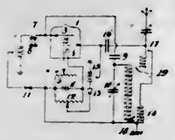
female member and having its said edges engaged with and between the curled edges of the female member, means to secure the opposite end of the belt to the male member, and a snap fastener having its respective parts secured to the male and female members.

1,381,691. BELT-BUCKLE. LAWRENCE E. BAER, Attleboro, Mass., assignor to Baer & Wilde Company, Attleboro, Mass. Filed Apr. 1, 1921. Serial No. 457,609. 2 Claims. (Cl. 24—77.)



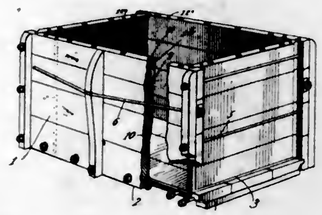
1. A belt buckle composed of a front member having top and bottom flanges, spaced shanks secured to the front member on its rear and having heads, the shanks being formed to extend through holes in one end of the belt with the latter arranged between the flanges, and a rear member formed to have the opposite end of the belt permanently attached thereto and to engage the first named end of the belt by seating thereon, said rear member being formed to be received between the flanges of the front member and having female parts receiving the heads and the shanks and with the latter forming snap fastening means for detachingly connecting the two members and for holding the belt engaged with the front member throughout the length of the latter.

1,381,692. DEVICE FOR RECEIVING RADIOTELEGRAPHIC AND RADIOTELEPHONIC SIGNALS. CESARE BARDELONI, Rome, Italy. Filed Apr. 12, 1919. Serial No. 289,758. 3 Claims. (Cl. 250—20.)



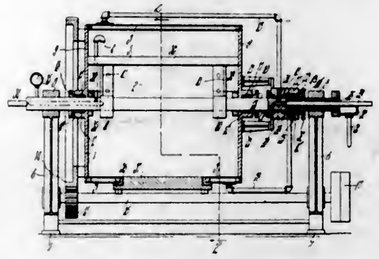
1. A device for detecting high frequency oscillations of the kind used for radiotelegraphic and radiotelephonic transmissions, comprising an oscillating circuit responsive to the action of the arriving waves, an ionized gas receiver with an incandescent filament, a grid and a third electrode, two conductors which, starting from the said oscillating circuit, lead respectively to the incandescent filament and to the grid, a rectifying device and a potentiometer inserted in series in a conductor bridging the said two conductors which end at the filament and the grid, the potentiometer being fed by the same source of electrical energy which feeds the incandescent filament, and a circuit comprising a telephonic or the like receiver connected to the third electrode.

1,381,693. TANK. JOHN BAUERLE, Cincinnati, Ohio, assignor to The Hauser-Stander Tank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 2, 1920. Serial No. 427,745. 6 Claims. (Cl. 217—4.)



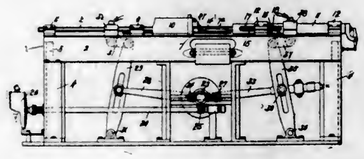
1. A tank having wooden wall forming boards set edge to edge, said boards having channels cut in the edges thereof, so as to match each other when the boards are laid edge to edge, said channels provided with apertures whereby a sealing compound may be poured into said channels after the wall is set up.

1,381,694. PROCESS FOR THE MATURING OF CHOCOLATE AND THE LIKE. GEORGE A. BAUSMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1919. Serial No. 272,096. 6 Claims. (Cl. 99—11.)



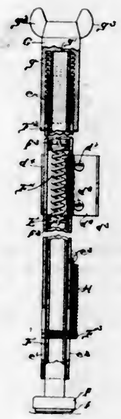
1. The method of maturing chocolate and confectionery liquors, which consists in systematically causing the particles of the mass to repeatedly rub upon one another free from pressure except that of its own mass, to improve the smoothness of the liquor.

1,381,695. PORCELAIN-TUBE-HEADING MACHINE. THOMAS W. BEATTY, Carey, Ohio. Filed Dec. 20, 1920. Serial No. 432,060. 12 Claims. (Cl. 25—3.)



1. In a porcelain tube heading machine, a pair of coacting plungers movable toward and away from article operating position and adapted to coöperate to offset a work piece end, one plunger being operable to advance a work piece into operative relation partially within the other plunger, and means for simultaneously imparting opposed reciprocatory movements to the plungers.

1,381,696. DEVICE FOR HOLDING DOORS AND THE LIKE. LOUIS BERNHARD, Boston, Mass. Filed Aug. 30, 1920. Serial No. 406,766. 3 Claims. (Cl. 292—176.)



1. A device of the character described comprising a threaded support adapted for fixed connection to a door or the like; means mounted to move longitudinally on said support, the latter and said means having coöperating portions which prevent rotation of said means, said means including a spring; a threaded actuating member engaging the threading of the support, rotatable on said support and engaging said means to move said means into engagement with a fixed element and to hold said means in such engagement; and a spring tending to move said means out of engagement with said fixed element.

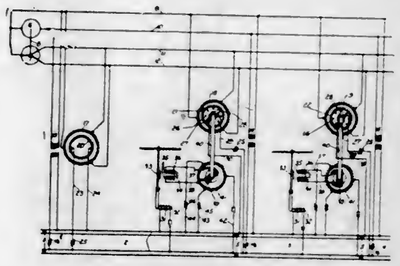
1,381,697. HANDPIECE FOR DENTAL ENGINES. CHARLES B. BISHOP, New York, N. Y., assignor to Consolidated Dental Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Apr. 4, 1916. Serial No. 88,838. 4 Claims. (Cl. 32—11.)



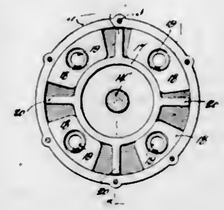
1. In combination with the head piece of a dental engine having a projecting sleeve and an exteriorly screw threaded portion, a hand piece comprising a case mounted on said sleeve and provided at one end with an annular flange arranged to abut said threaded portion, and a hollow nut adapted to engage said flange and threaded portion for locking the case to the head piece and sleeve.

1,381,698. SYSTEM OF TRAIN CONTROL. ELI J. BLAKE, Buffalo, N. Y., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed Mar. 11, 1919. Serial No. 282,014. 10 Claims. (Cl. 246—34.)

2. In a system of train control, a trackway and a vehicle for travel thereon, a circuit on said vehicle, means for impressing alternating currents of commensurate frequencies upon the trackway, means whereby corresponding frequencies are caused to flow in the circuit on the vehicle and controlling apparatus on the vehicle adapted to be selectively operated in accordance with the phase relation of the frequencies in said circuit.

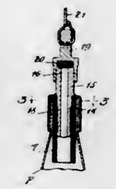


1,381,699. SHOCK-ABSORBER. WILLIAM M. BOENNING, Manitowoc, Wis. Filed Sept. 2, 1919. Serial No. 321,131. 6 Claims. (Cl. 188—130.)



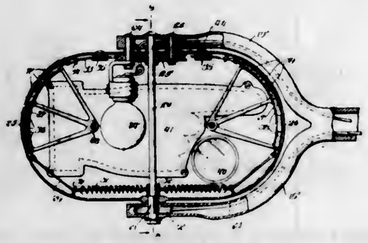
1. A shock absorbing device comprising the combination with a pair of relatively movable members of a series of resistance units each mounted for relative movement with respect to said members to set up frictional resistance upon such relative movement of the units and a member fixedly secured to one of said relatively movable members and having portions adapted for successive engagements with said resistance units upon continuous relative movement between said first named members.

1,381,700. INFLATING-VALVE. REGINA N. BRESSLER, New York, N. Y. Filed Mar. 5, 1919. Serial No. 280,779. 6 Claims. (Cl. 9—17.)



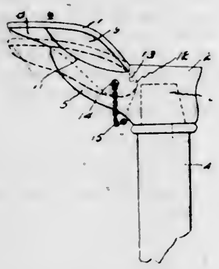
1. A valve for inflatable bags, comprising a tubular body, a sleeve of compressible material surrounding a part of the length of the body and adapted to fit within the neck of the air bag, clamping means adapted to extend about the neck of the bag upon said sleeve to force the neck against the sleeve and the sleeve against the body and secure the body, sleeve and neck together, and means for opening and closing the valve.

1,381,701. AUTOMOBILE SIGNAL-LAMP. GEORGE W. BRINGMAN, Cleveland, Ohio. Filed Sept. 30, 1919, Serial No. 327,587. Renewed Apr. 8, 1921. Serial No. 459,715. 14 Claims. (Cl. 116—48.)



1. In a device of the class described, the combination of a lamp casing, means for mounting the same for rotary movement about a vertical axis, said casing provided with two oppositely disposed light apertures, one constituting a forward light aperture and the other constituting a rear light aperture, an indicator carried by the casing visible from the side of the casing and invisible as an indicator from the rear of the casing, a source of light within the casing for directing light rays through said apertures, means for rotating the casing over an angle of approximately 90°, whereby said forward and rear apertures become side apertures and the indicator becomes visible from the rear of the casing, and means acting on the casing to restore the same to its normal position.

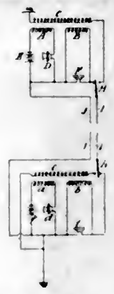
1,381,702. INTERCHANGEABLE LAST. GEORGE G. CAMPINI, San Francisco, Calif. Filed Feb. 8, 1919. Serial No. 275,857. 1 Claim. (Cl. 12—123.)



A last comprising a heel block with a pair of laterally extending, parallel arms having recessed top faces, and a sole plate with a longitudinal, medial rib insertible between the arms and having side bosses on the rib for support on said arms in said recesses to position the plate at a predetermined angle with respect to the top plane of the heel block.

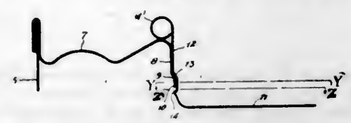
1,381,703. TELEPHONE SYSTEM. BERTRAM SYDNEY COHEN, Twickenham, England, assignor to The Relay Automatic Telephone Company Limited, Strand, England. Filed Dec. 31, 1919. Serial No. 348,631. 5 Claims. (Cl. 179—1.)

1. In a telephone installation, the combination of a transmitter, a receiver, a capacity, a transformer having three windings, one in series with the transmitter, the second in series with the receiver and the third connected at one end to the capacity, a pair of conductors, one being connected to the transmitter and receiver, and



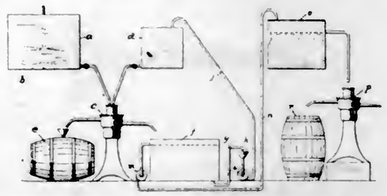
means for connecting the other conductor either to the transmitter and receiver or to the other end of the third winding of the transformer.

1,381,704. REMOVABLE CLOSURE FOR METALLIC CONTAINERS. CHARLES T. DRAPER, Cleveland, Ohio, assignor to The Draper Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 15, 1920. Serial No. 365,723. 3 Claims. (Cl. 220—42.)



1. A closure for containers, comprising an annular head provided with an opening, a depending rim integral with said head and beneath said opening, said rim being provided at its lower end with a shoulder and a cylindrical lip, and a closure plug inserted within the above mentioned opening, said plug being provided with a coacting peripheral shoulder, and a series of projections, positioned to engage the edge of the lip in locking relation.

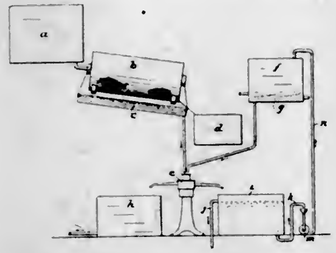
1,381,705. SEPARATION OF OLEO AND STEARIN FROM FATS. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 20, 1920. Serial No. 382,699. 11 Claims. (Cl. 87—12.)



1. The process of treating fats to separate the oleo thereof from the stearin thereof which comprises subjecting the fats and a liquid that is heavier than the oleo to centrifugal force and separately discharging the oleo and said heavier liquid and stearin, and subjecting said heavier liquid and stearin to centrifugal force to separate out the stearin.

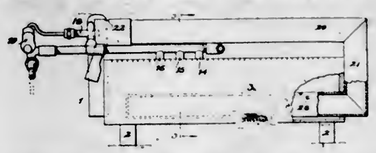
1,381,706. PROCESS OF SEPARATING OILS FROM FOOTS. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 24, 1920. Serial No. 383,665. 4 Claims. (Cl. 87—12.)

1. The process of separating foots from oil which comprises filtering out the coarser solid particles, heating a liquid of greater specific gravity than the oil, subjecting the partially purified oil and said heated liquid concurrently to the action of centrifugal force, separately discharging the oil from said liquid, whereby the latter will



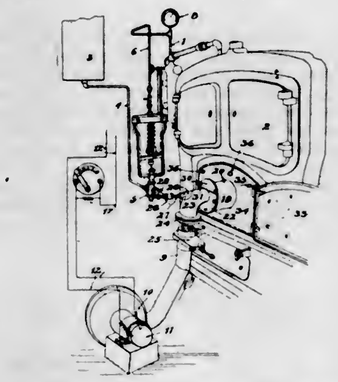
carry off the solid particles that have not been removed in the filtering step, separating said particles, with some of the heated liquid, from the remainder of the heated liquid, and re-using the purified liquid in the centrifugal oil separating and purifying operation.

1,381,707. KEROSENE-BURNER. ARTHUR E. HAUCK, New York, N. Y.; Adolph H. Stein executor of said Arthur E. Hauck, deceased. Filed Aug. 17, 1920. Serial No. 404,096. 2 Claims. (Cl. 158—65.)



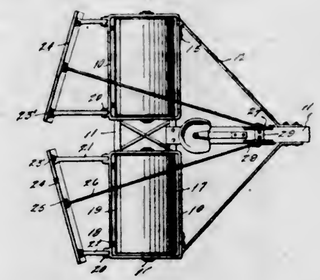
1. A hydrocarbon burner containing means for preheating the fuel and vaporizing the same, a perforated tube for receiving the vaporized fuel and mixing the same with air and a chamber with slotted upper walls into which the perforated tube projects so that when the burner is in use, the flames extending through the slots will heat the preheating means and the perforated tube.

1,381,708. AUTOMATIC OIL-BURNER FOR FURNACES. ARTHUR E. HAUCK, New York, N. Y.; Adolph H. Stein executor of said Arthur E. Hauck, deceased. Filed Aug. 17, 1920. Serial No. 404,097. 2 Claims. (Cl. 158—28.)



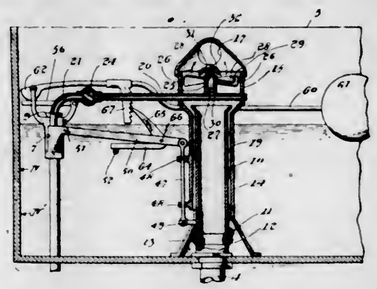
1. A furnace provided with an oil burner composed of a burner T tube with flame perforations in its upper surface, means for supporting said tube, an inwardly extending bar adapted to rest in the path of a flame, means for supplying fuel oil for the burner tube and means for supplying air.

1,381,709. ROAD GRADER AND DRAG. JESIE M. HERRING, Groesbeck, Tex. Filed Feb. 17, 1920. Serial No. 359,432. 2 Claims. (Cl. 37—5.)



1. In a road surface grader, a pair of scraping units each comprising a frame, a roller journaled in each frame, a mud scraper carried by each frame and engaging the roller thereof, a scraper blade disposed in the rear of each frame, jointed arms connecting the scraper blade with the rear end of the frame, a shank projecting upwardly from each scraper, and a lever adjusting device having connection with the shank of the scraper of each frame.

1,381,710. WATER-OPERATED VENTILATOR FOR TOILETS. CARL A. KRANTZ and GUSTAVUS E. KRANTZ, Chicago, Ill. Filed July 7, 1919. Serial No. 309,123. 11 Claims. (Cl. 4—21.)

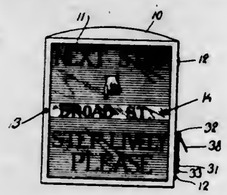


1. In a toilet of the kind described and in combination, a bowl, a flushing tank therefor provided with an inlet and with an outlet into said bowl, a valve for controlling the admission of water through said inlet and a valve for controlling the discharge of water through said outlet, and a single coöperating mechanism for controlling both of said valves, whereby a measured amount of the water will remain in said tank after discharge, and means for ventilating said bowl including a fan, a water motor for driving said fan and receiving its operating liquid from said inlet, said motor arranged to discharge the spent water into the said tank.

1,381,711. STATION-INDICATOR. LEO J. KREIPEL, New York, N. Y. Filed Jan. 20, 1919. Serial No. 272,066. 1 Claim. (Cl. 40—86.)

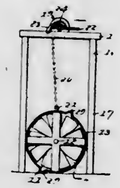
In a device of the character described, a casing having an open front closed by a door provided with a sight opening, a partition in the casing next to one of its sides,

boxes having spring influenced pins projecting therethrough arranged in opposed pairs that are fixed to the inner wall of the partition and the side of the casing opposite said wall, rollers having ratchet wheels fixed on the ends thereof, the wheels on one of the rollers having their teeth pitched in a reverse direction to the teeth of the wheels on the other roller, each of said wheels having a central socket to receive the referred to opposed pairs of pins therein, a curtain attached to one of the rollers and adapted to be wound on the other roller, said curtain having a successive series of reversely arranged characters which are designed to be successively displayed through the sight opening in the casing, a lever having one end journaled on one side of the casing near the bottom thereof, an angle arm on the lever, said casing having its side and partition provided with an arcuate



slot disposed above the lower roller and receiving therethrough said arm, a dog pivoted to the arm and engaging the teeth of the ratchet wheel directly therebelow, a flat spring in the partition having an arched outer end which is connected to the arm for swinging the lever and dog to one position to bring said arm in contacting engagement with the rear end walls provided by the slots, and the said arm also designed to contact with the opposite end walls of the slots when a pull is exerted on the lever, and thus limit the swinging of the lever and dog in such direction, and arched springs secured to the back of the casing and contacting with the portions of the curtain wound on the rollers, and the springs contacting with the curtain on the lower roller holding said curtain and roller against movement when the dog ratchets over the ratchet wheel on the said lower roller when the lever is spring influenced to initial position.

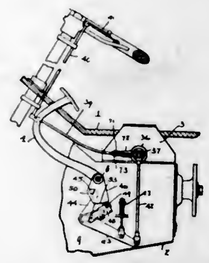
1,381,712. WATER-MOTOR. ELI KUNKEL, North Platte, Nebr. Filed Oct. 21, 1919. Serial No. 332,233. 2 Claims. (Cl. 170—130.)



1. A water motor having rotary units arranged in a battery or series with a common axis arranged in parallelism with the direction of progress of the water and provided with blades deflected respectively from planes perpendicular to said axis, a housing for the units, and means consisting of channels disposed longitudinally of the housing and in substantial parallelism with said axis for directing the water in its passage through the housing.

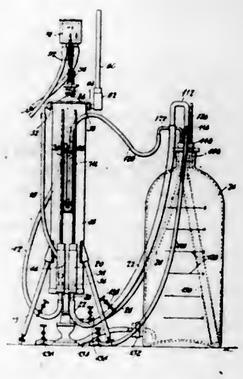
1,381,713. TRANSMISSION-CONTROL MECHANISM. CYRUS B. KURTZ, Lakewood, Ohio. Filed Mar. 11, 1919. Serial No. 282,008. 15 Claims. (Cl. 74—58.)

1. The combination with a selective sliding gear transmission having a plurality of shiftable sliding gears; of a series of gear-shifting levers; operating connections therefor connected in pairs and each connection being adapted upon a one-direction actuation to cause opposite movement of said levers, and a pivotally mounted select-



ing and operating member adapted to engage and actuate in the same direction either of the connections of each of said pair of connections, thereby effecting different movements of said shifting levers.

1,381,714. CALORIMETER. WILBUR G. LAIRD, New York, N. Y., assignor to Henry L. Doherty, New York, N. Y. Filed June 24, 1919. Serial No. 306,392. 11 Claims. (Cl. 73—184.)

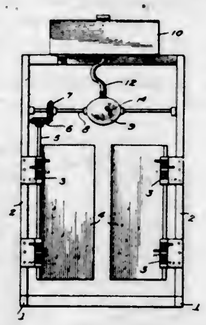


1. A gas calorimeter comprising a gas tank, a straight annular container having cylindrical walls spaced a short distance apart, said container being open at the bottom for the direct admission of air thereto, an outlet mounted on the top of said container forming a direct passage of combustion gas from said container to atmosphere, a burner inclosed by the inner wall of the container, means for connecting said burner with said gas tank, a water inlet for said annular container, a conduit for leading water from said container to said tank and means for measuring the rise in temperature of the water passing through said container.

1,381,715. HOG-OILING APPARATUS. PAUL P. LARKIN, South Charleston, Ohio. Filed July 10, 1920. Serial No. 395,194. 5 Claims. (Cl. 119—159.)

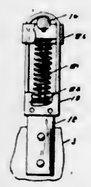
1. The combination in a hog oiling apparatus, of a frame, a tiltable oil container having at the opposite sides thereof exterior oil spouts and also having interior pipes each of which extends from one spout to a point adjacent to the opposite side of the container and is disposed at an

intermediate point in the height of the container, and means operable by the passage of a hog in either direction



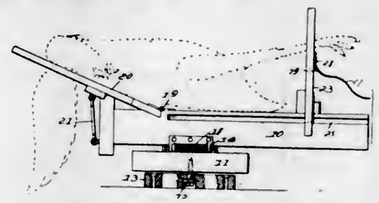
under the container to tilt the container and thereby discharge oil therefrom co-incident with the passage of the hog.

1,381,716. WASHING-MACHINE. MINNIE M. LATHAM, Fort Worth, Tex., assignor of one-third to Ada Wood, Lynnville, Iowa. Filed June 10, 1919. Serial No. 303,173. 1 Claim. (Cl. 68—23.)



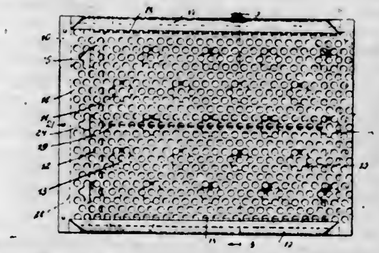
A washing machine including a tub having a cover and a rubber, an operating shaft journaled on the cover, means for oscillating the shaft, upwardly extending arms secured to the rubber, inverted substantially U-shaped hanger straps suspended from the shaft and secured to the arms, guide members slidable on the hanger straps and having grooves to receive the shaft and secured to the latter, collars secured to said arms, and expansion springs between the guides and collars for normally urging the rubber downwardly and adapted to permit upward movement of the rubber when undue pressure is placed thereon.

1,381,717. CAPONIZING-RACK. MARTIN E. LINDEMUTH, Elizabethtown, Pa. Filed Sept. 14, 1920. Serial No. 410,109. 4 Claims. (Cl. 119—97.)



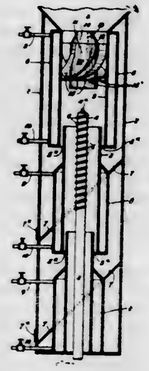
1. A caponizing rack having a base bar, an inclined head rest, and an upright foot rest mounted upon said base bar, both of said rests being provided with terminally open slots for the reception respectively of the wings and feet of a fowl.

1,381,718. GRAIN-SIEVE. ALONZO LOCKARD, Massillon, Ohio. Filed Apr. 7, 1920. Serial No. 372,031. 1 Claim. (Cl. 130—19.)



A screen consisting of a pair of screen plates each having therein a plurality of small circular apertures and a plurality of larger circular apertures, the edges of the larger apertures being defined by a plurality of substantially semi-circular notches corresponding in curvature to said smaller apertures, so that the notches of said larger apertures in said plates may be made to coincide when said screen plates are in one relative position, and said small apertures made to coincide with said notches when said screen plates are in another relative position.

1,381,719. CENTRIFUGAL GAS-CLEANING APPARATUS. FRANK R. MCGEE, Steubenville, Ohio, and ARTHUR F. NESBIT, Wilkinsburg, Pa. Filed Dec. 10, 1920. Serial No. 429,667. 6 Claims. (Cl. 183—7.)



1. In an apparatus for separating foreign particles from gaseous streams, the combination with a receiving chamber for the gases to be cleaned, and a tubular conduit leading therefrom, of a centrifugal head member mounted in said tubular conduit, said head comprising a body portion having a centrally arranged aperture therethrough, and a plurality of helical passages around its periphery, the major portion of the gases entering said chamber being adapted to pass through said helical passages and a minor portion being adapted to pass through said centrally arranged aperture.

2. In an apparatus for electrically precipitating particles from gaseous streams, a head member adapted to cause a mechanical centrifugal movement to the major portion of the gases, said head comprising a body portion having a relatively small centrally arranged aperture therethrough, and a plurality of helical vanes formed on the outer periphery of said body portion forming helical passages, the major portion of the gases being adapted to pass through said helical passages and a minor portion being adapted to pass through said small centrally arranged aperture forming a lead stream.

3. In an apparatus for electrically precipitating particles from gaseous streams, the combination with a tubular

collecting electrode and a discharge electrode centrally arranged within said collecting electrode, of a centrifugal head member adapted to impart a mechanical centrifugal movement to the major portion of the gases, said head being arranged within said collecting electrode and above said discharge electrode, and comprising a cylindrical body portion having a relatively small centrally arranged unrestricted aperture therein adapted to admit a small lead flow of uncleaned gases through the head, to impinge directly upon the upper end of the discharge electrode, and a plurality of helical vanes formed on the outer periphery of said body portion adapted to abut the inner periphery of said collecting electrode, thereby forming helical passages through which the major portion of said gases are adapted to pass.

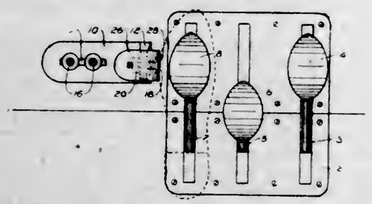
4. An apparatus for separating particles from gaseous and fluid streams by electrical precipitation, comprising the combination with a casing, of a tubular collecting electrode arranged within said casing and having a plurality of traps spaced along its length, a discharge electrode centrally arranged within said collecting electrode, and a centrifugal head member adapted to impart a mechanical centrifugal movement to the major portion of the gases, said head being arranged within said collecting electrode and above said discharge electrode, and comprising a cylindrical body portion having a relatively small centrally arranged unrestricted aperture therein adapted to admit a small lead flow of uncleaned gases through the head to impinge directly upon the upper end of the discharge electrode, and a plurality of helical vanes formed on the outer periphery of said body portion adapted to abut the inner periphery of said collecting electrode, thereby forming helical passages through which the major portion of said gases are adapted to pass.

5. The method of precipitating particles from gaseous fluids, comprising first, in passing the gases into a chamber, dividing said gases into two flow bodies, imparting a mechanical centrifugal whirl to one of said bodies and passing it between a discharge electrode and a collecting electrode, and passing said other body directly against the discharge electrode, causing an initial ionization thereof, and precipitating the particles therefrom toward said collecting electrode and into the path of said first body.

1,381,720. METHOD OF SEPARATING NICKEL. ALEXANDER MCKECHNIE, Birmingham, England. Filed May 3, 1920. Serial No. 378,537. 4 Claims. (Cl. 75—17.)

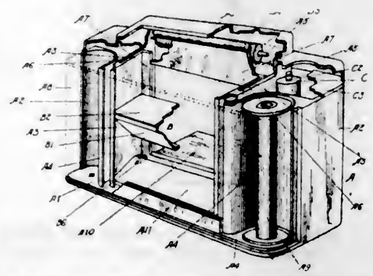
1. A method of separating nickel from cupro-nickel alloy, or scrap or other material containing copper and nickel in the metallic state, in which the molten material is subjected to heat and oxidizing treatment in a basic reverbatory furnace; the treatment being continued until the whole or part of the nickel content is volatilized out or carried over from the furnace in the form of nickel oxid, which can be intercepted or collected and reduced to metallic nickel by any known method.

1,381,721. STOP DEVICE FOR USE WITH CHANGE-SPEED PEDALS OF AUTOMOBILES. KENNETH K. MCLEOD, St. Paul, Minn., assignor of one-half to Walter Corey, Minneapolis, Minn. Filed Aug. 2, 1919. Serial No. 314,924. 5 Claims. (Cl. 74—81.)



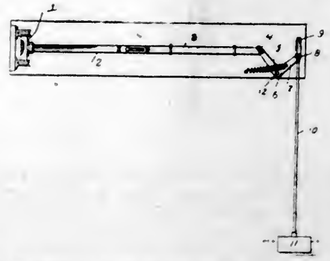
1. A stop device for use with change-speed pedals of automobiles consisting of a support, means for securing said support to the foot-board, and a stop member mounted upon said support, said stop member being adapted to be so positioned as to be engaged by the foot of the driver when the change-speed pedal is depressed from high-speed position into neutral position.

1,381,722. CAMERA. HART H. MCNAUGHTON, Maryville, Tenn. Filed June 17, 1919. Serial No. 304,824. Renewed Dec. 30, 1920. Serial No. 434,112. 12 Claims. (Cl. 95—42.)



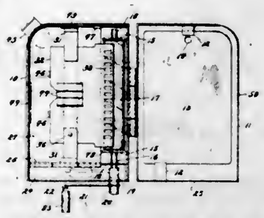
1. In a camera, the combination of upright walls forming a well, the forward of said walls having a light opening, and a reflecting unit movable up and down in said well and having a height less than the height of said light opening, substantially as described.

1,381,723. SWITCH-OPERATING MECHANISM. CHARLES MAKOBEN, Stockton, Iowa. Filed Aug. 2, 1919. Serial No. 314,998. 1 Claim. (Cl. 200—84.)



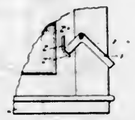
Means for throwing a switch including a movable blade, comprising a link connected with the blade, a hinged leaf at one end of said link formed with a slot, a second link carrying a pin passing through said slot, a bell crank lever having a slot and pin connection with said second named link, a spring for holding said named lever past center at either limit of its movement, and a rod carrying a float and having a lost motion connection with said lever.

1,381,724. SAFETY-RAZOR AND STROP. JAMES A. MALONEY, Scranton, Pa. Filed May 18, 1920. Serial No. 382,234. 9 Claims. (Cl. 132—80.)



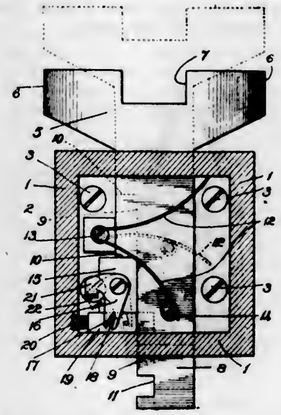
1. A safety razor including a receptacle, a cover hinged to said receptacle, a blade carrier hinged in said receptacle, sharpening means operably mounted in said receptacle, a mirror carried by the hinged cover, and a blade holder adapted to sent on the blade carrier and to be removably attached to the receptacle when the operation of shaving is to be effected.

1,381,725. SASH-HOLDER. FREDERICK WILLIAM MARHEINE, Spokane, Wash., assignor of one-half to Emil Hansen, Spokane, Wash. Filed May 20, 1918. Serial No. 235,520. 1 Claim. (Cl. 292—238.)



In combination with a window frame and its sash, of locking means for the sash consisting of an L-shaped member pivoted on one part at the junction of its arms and a stationary member on the other part, said L-shaped member having a short arm and a long arm and the stationary member having a straight vertical part and an inclined part, said inclined part receiving the end of the short arm with the corner of said arm resting against the vertical part.

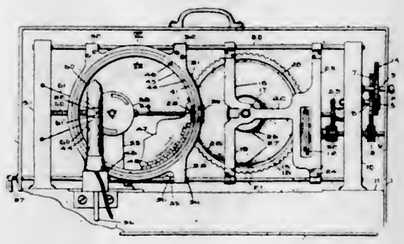
1,381,726. STEERING-WHEEL LOCK. STUART DUNCAN MARR and ROBERT DUCKETT MARR, Balham, London, England. Filed Dec. 10, 1919. Serial No. 343,883. 3 Claims. (Cl. 70—129.)



1. An appliance for locking the steering wheels of motor vehicles comprising a casing associated with the steering column of the vehicle, a locking member movably mounted within the casing and adapted to engage the steering wheel, means for locking the movable member when it is in engagement with the steering wheel, a door pivoted to said casing and adapted when in closed position to conceal said locking member and locking means, said door having means acting when it is being opened to release the locking member from engagement with the steering wheel, and means for locking the door in closed position.

1,381,727. MOTION-PICTURE APPARATUS. ALBERT M. MAYLE, Toledo, Ohio. Filed May 14, 1919. Serial No. 296,987. 21 Claims. (Cl. 88—18.8.)

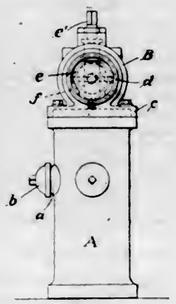
1. In a motion picture apparatus including a projecting lens, a light, a condenser between the light and lens, a disk record holder for positioning a record to receive light rays from the condenser, and a shutter to intercept rays from the light, a transmission mechanism peripherally engaging the record holder, embodying an actuator for progressively varying the angular velocity of the holder, and a driver for peripherally engaging the actuator.



1,381,728. ABRASIVE COMPOSITION. JOSEPH A. MENARD, Seattle, Wash. Filed Apr. 29, 1920. Serial No. 377,558. 4 Claims. (Cl. 51—280.)

1. A composition of matter comprising in substantially the proportions stated, potassium, lead, sodium, an abrasive, and a suitable vehicle, such composition possessing initially, cutting or abrading properties, but convertible through a rubbing action between opposed parts movable relatively one to the other, into a lubricating mixture.

1,381,729. FIRE-PLUG. THOMAS H. MEUSHAW and CONRAD J. DIEZ, Baltimore, Md. Filed Aug. 13, 1920. Serial No. 403,425. 2 Claims. (Cl. 137—13.)

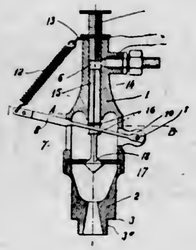


1. A cap attachment for hydrants having an open bottom and adapted to be secured to a hydrant, a valve controlling the flow of water to the cap and a valved outlet from the cap, substantially as described.

1,381,730. ATOMIZING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JULES MAURICE MEYER, Paris, France. Filed Jan. 12, 1920. Serial No. 351,067. 2 Claims. (Cl. 261—51.)

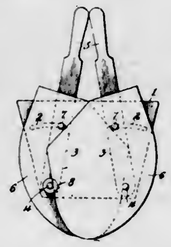
1. A device of the class described comprising a casing adapted to be connected to the suction pipe of an internal combustion engine, said casing having a water inlet, a bore communicating therewith, and a valve cage having air openings formed therein, a feeding device in said casing having a stem located in said bore, said stem being provided with tapered grooves and a valve head connected to said stem for controlling communication between said valve cage and the suction pipe, and means for moving

said valve head and stem to permit the suction of the engine to draw air through said openings and to expose



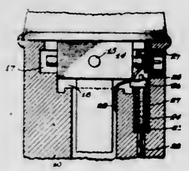
the tapered parts of said grooves to the action of said air whereby the water contained therein may be atomized and mixed with the fuel mixture in the suction pipe.

1,381,731. IRRIGATING DEVICE. CHARLES A. MORRIS, Augusta, Colo. Filed Aug. 28, 1920. Serial No. 406,646. 2 Claims. (Cl. 61—29.)



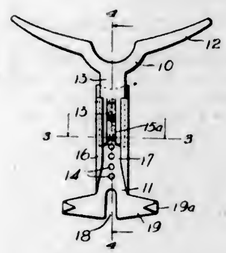
1. In a device for the purpose set forth, the combination of a body portion, blades secured to and movable with respect to the body member; said blades overlapping each other, slots formed in the body member near the upper end thereof, handles secured to the body member, bolts passing through the handles near their lower ends and also passing through the body member and blades, and bolts secured to the handles and wings and adapted to move in the slots of the body member, whereby the blades may be moved with respect to each other.

1,381,732. SWITCH-LOCK. JOHN M. MORRISON, Plattsburg, N. Y. Filed Nov. 2, 1920. Serial No. 421,216. 6 Claims. (Cl. 246—413.)



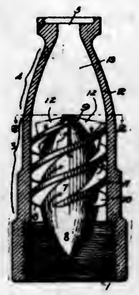
1. A switch stand, including a base formed with a recess, a shaft extending into said recess, a multi-faced block being secured to said shaft and being adapted to engage the side walls of said faces, trunnions secured to and extending outwardly from said block, and means adapted to engage said trunnions for normally preventing a lifting of said block, and consequently a subsequent turning of the same.

1,381,733. SOFT-COLLAR HOLDER. JOHN O'CONNOR, New York, N. Y. Filed Apr. 2, 1921. Serial No. 457,906. 4 Claims. (Cl. 24—87.)



1. A holder for soft collars including an upper section adapted to have supporting engagement with the collar within the latter, a lower section having means at its lower end to engage a collar button, means to adjustably connect said upper and lower connections to vary the total height of the holder, and lateral arms extending in opposite directions on said lower section, said arms having their ends returned laterally inward at the front and formed to penetrate the flaps of the collar.

1,381,734. SPRAY-NOZZLE AND METHOD OF DISTRIBUTING LIQUID. LEE H. PARKER, Boston, and CHARLES H. LANDON, Wollaston, Mass., assignors to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed June 3, 1920. Serial No. 386,245. 22 Claims. (Cl. 299—120.)

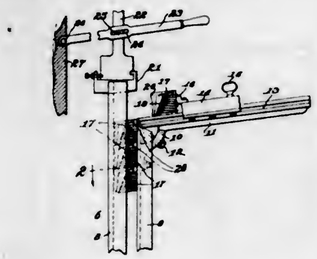


12. A spray nozzle comprising a shell or casing having an inlet and an outlet, a core within said casing having a spiral to which all the liquid of the stream is subjected, means to permit a portion of the liquid to flow inwardly away from the spiral, an obstruction interposed in the path of flow of said inwardly flowing part of the liquid, and a mixing chamber wherein all the parts of the stream are intimately mixed.

1,381,735. HEEL-BLANK SEPARATOR, AND METHOD OF AND APPARATUS FOR USING SAME. DENNIS PARKS, St. Louis, Mo. Filed Dec. 12, 1919. Serial No. 344,288. 6 Claims. (Cl. 12—50.)

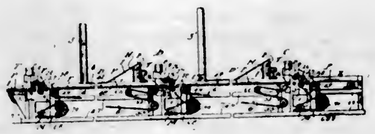
1. A unitary separating member for decked heel blanks insertible in a log holder for containing a column of such blanks comprising a plate adapted to have its under side, relative to the position of the separating member in the

holder, rest upon the top of the heel-blank and its upper side support the bottom of another heel-blank, and mem-



bers depending from the plate at opposite sides of one end thereof and having inner faces for engaging the rounded portion of the heel-blank.

1,381,736. PROCESS FOR ENAMELING PLATES AND THE LIKE. ROBERT H. PRICHARD, Los Angeles, Calif. Filed Jan. 9, 1920. Serial No. 352,228. 4 Claims. (Cl. 91—70.)



2. The herein described process for enameling plates and the like, which consists in alternately applying enamel and passing the sheets flatwise through drying zones in which the sheets are exposed to a forced draft of heated air, and finally discharging them for further treatment.

1,381,737. PROCESS FOR PRODUCING LINOLEUM AND PRODUCT THEREOF. GEORGE W. PRIEST, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Original application filed Aug. 8, 1917, Serial No. 185,016. Divided and this application filed Sept. 25, 1918. Serial No. 255,588. 10 Claims. (Cl. 106—7.)

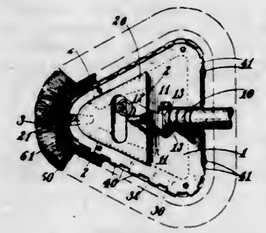
1. The process which comprises mixing together an oxidized oil and a polymerized product of the coumarone or indene group of compounds at a temperature not above 100° C.

1,381,738. LINOLEUM COMPOSITION AND PROCESS OF MAKING SAME. GEORGE W. PRIEST, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Original application filed Aug. 8, 1917, Serial No. 185,015. Divided and this application filed Sept 25, 1918. Serial No. 255,613. 10 Claims. (Cl. 106—7.)

1. The process which comprises mixing together an oil and a polymerized product of the coumarone or indene group of compounds at a temperature not above 100° C.

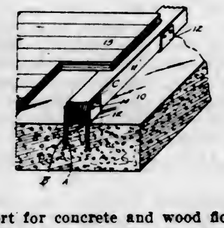
1,381,739. MOP. ARTHUR EDWARD PRENTIS, Kent, England. Filed Nov. 13, 1919. Serial No. 337,668. 15 Claims. (Cl. 15—51.)

1. A mop of the type described, comprising in combination a mop-headplate, a detachable closed fluid container separable from and carried by the headplate, a perforated fluid-distributing conduit also carried by the headplate, means to convey fluid from the container to the conduit, and a mop-fabric engaging said conduit to receive dressing fluid directly therefrom, the container being so disposed



relatively to the conduit as to enable the fluid to flow to the latter by gravity when the mop is in use, substantially as described.

1,381,740. CONCRETE AND WOOD FLOOR CONSTRUCTION DEVICE. CLYDE W. PRICKETT, Winterset, Iowa. Filed Nov. 1, 1920. Serial No. 421,020. 3 Claims. (Cl. 72—101.)



1. A support for concrete and wood floor construction, comprising a single piece of material bent to form a central member, downwardly extending parts at the ends thereof, the ends of the downwardly extending parts being re-bent upwardly and projecting upwardly above said central members, and adapted to receive a sleeper between them.

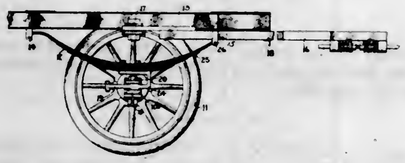
1,381,741. WIRE CONNECTION. GIOVANNI QUAGLIA and ARRIGO CAPELLO, Turin, Italy, assignors to Ch. Henri E. Wetzels, Paris, France. Filed Sept. 8, 1917. Serial No. 190,402. 4 Claims. (Cl. 24—126.)



3. In combination, a wire-like rod having its end portion bent upon itself and having the portion between the bend and the end lying for a substantial distance upon the unbent portion adjacent the bend, said portion between the end and the bend being reduced in thickness to form a wedge-like inclination inclining toward the end of the

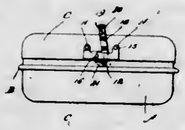
rod; and a housing to receive the rod and provided with an aperture through which the rod extends, said aperture tapering to conform to the inclination of the wedge-like portion of the rod between the end and the bend whereby the bent portion of the rod fits snugly within the aperture and in close contact with the internal surface of the aperture, a portion of the wall of the aperture being disposed parallel with the axis of the unbent portion of the wire.

1,381,742. TRAILER-STEERING DEVICE. HENRY J. RALSTON, San Francisco, Calif. Filed Apr. 14, 1920. Serial No. 373,887. 2 Claims. (Cl. 280—33.5.)



1. In a vehicle, an axle, a frame carried by the axle, semi-elliptical springs on the axle supporting the frame, steering wheels on the axle, a draw-bar having a fixed pivotal connection with the frame, a steering lever having a fixed pivotal connection with the axle, and a connection between the steering lever and draw-bar comprising a leaf spring having points of connection in line with those of the supporting springs and whose elongating movement under compression is coextensive with that of the supporting springs.

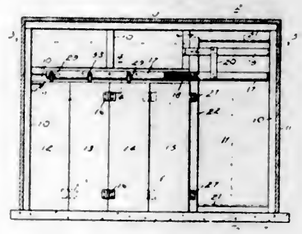
1,381,743. POLISH-BOX OPENER. ZARAGOZA GONSALEZ RAMON, Amarillo, Tex. Filed Nov. 1, 1920. Serial No. 421,017. 1 Claim. (Cl. 220—43.)



A device of the character described comprising in combination, a box body formed with a circumferential bead, a cover telescopically engaged upon the body, said cover being formed at one side with spaced tongues connected by a web and the web being separated from the body of the cover by a slot, said tongues and web being bent to lie alongside the flange of the cover, a third tongue formed on the web and bent into spaced relation thereto to define a bearing, and a lever pivoted between said last named tongue and the web and having a cam head operating through said slot and engageable with said bead, the extremities of said first named tongues being provided with holes and said ends being soldered onto the body of the cover, the holes permitting passage of the solder.

1,381,744. COLLAPSIBLE DOOR. LEO A. RIGGS, Audubon, Iowa. Filed July 29, 1920. Serial No. 399,679. 5 Claims. (Cl. 20—20.)

1. A collapsible door comprising a plurality of door sections hinged together, a support adjacent to one edge of said door sections, said support being designed to slide longitudinally, the door section adjacent to said support being hinged thereto, a track device for supporting the remainder of the door sections, the parts being so arranged that movement of the door sections will cause them and the support to slide longitudinally and then



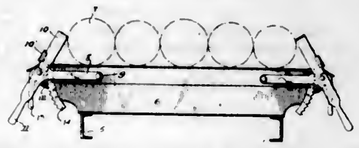
cause the door sections to collapse one against the other so that the entire doorway may be clear, and means for yieldingly holding said door sections in their collapsible position.

1,381,745. POWER-TRANSMITTING MECHANISM. WILLIAM ESSINGTON ROBB, Oil City, Pa. Filed June 8, 1920. Serial No. 387,355. 4 Claims. (Cl. 74—1.)



3. A power-transmitting device comprising an eccentric, having a rim and a web portion, a power-transmitting roller engaging a face of the rim below the web portion, an annular groove in the upper face of the rim, a plurality of passages from said groove to points in the web under which the roller passes, and a second series of passages connecting the first-named passages with the peripheral face of the rim.

1,381,746. STAKE. GEORGE BRYANT ROBERTSON, Keene, N. H. Filed Dec. 14, 1920. Serial No. 430,741. 3 Claims. (Cl. 280—144.)

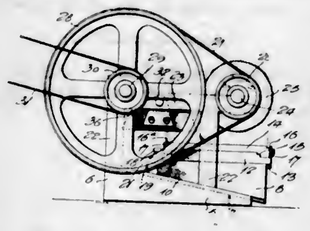


1. A stake including a pair of arms adapted to have their outer ends pivotally attached to a supporting element, a U shaped member secured to the outer ends of each of said arms and having one of its arms extending beyond the same to provide a handle, and means secured to said U shaped portion and coöperating with said supporting element to retain said arms in an angular position.

1,381,747. KEY-DUPLICATING MACHINE. SILAS O. ROREM, Sioux City, Iowa. Filed Apr. 9, 1920. Serial No. 372,727. 7 Claims. (Cl. 90—13.2.)

1. In a key duplicating machine, a base provided with inclined trackways, a carriage movable in the inclined trackways, a plate longitudinally movable upon the carriage, means for retaining a key and key blank in parallel spaced relation, said means being capable of adjustment transversely of the plate, a rotary cutter supported above

the plate, a gage blade arranged in advance of the cutter, the carriage being adapted to be moved up the inclined trackways until the gage blade engages the bottom wall of

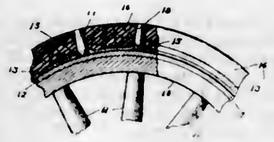


one of the notches in the pattern key, whereupon advancing the horizontal and longitudinally movable plate the blank will be cut to the same depth as the depth of the notches in the pattern key.

1,381,748. MANUFACTURE OF AGGLOMERATES OF VARIOUS MATERIALS AND THEIR UTILIZATION. THOMAS ROUSE, Stamford Hill, England. Filed Sept. 12, 1919. Serial No. 323,323. 10 Claims. (Cl. 204—49.)

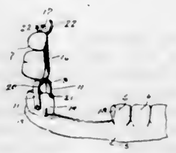
1. A method of agglomerating material, which comprises mixing it with ferro-boro-silicate, subjecting the mixture to the action of steam and subsequently subjecting the steam-treated mass to heat treatment.

1,381,749. ANTISKID-TIRE. CHARLES P. SALGEE, Philadelphia, Pa. Filed Dec. 18, 1920. Serial No. 431,621. 3 Claims. (Cl. 152—6.)



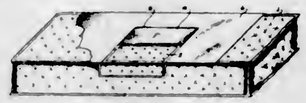
1. A tire for vehicle wheels comprising an annular ring adapted for attachment on a wheel felly and having outwardly flanged openings therein, a resilient tire for fitment on said annular ring and having radial passages therethrough in register with the aforesaid flanged openings, and plugs of a material having a higher coefficient of friction fitted into said registering openings and passages whereby the annular ring and resilient tire are firmly anchored together.

1,381,750. DENTAL DEVICE. ORIN C. SAMPHERE, West Allis, Wis. Filed May 13, 1920. Serial No. 381,060. 6 Claims. (Cl. 32—12.)



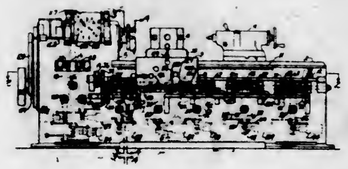
1. A dental device for attaching a movable tooth to a fixed tooth consisting of a means forming a pivotal and a swivel connection between the two teeth.

1,381,751. MATTRESS. ANNA SCANLAN, New York, N. Y. Filed May 12, 1920. Serial No. 380,755. 1 Claim. (Cl. 5—13.)



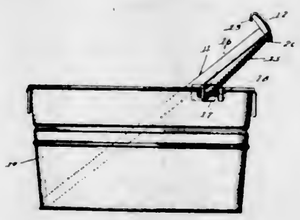
In combination with a mattress having a recess, said recess being at said mattress's transverse median and extending to substantially equal distances on each side thereof, and extending transversely from one side of said mattress to a point beyond the longitudinal median and said recess having a depth substantially one-half the depth of said mattress and having perpendicular walls, a plurality of closures for said recess, one of said closures being covered with an impervious medium and an impervious medium adapted to fit into said recess and to cover substantially the whole of said mattress.

1,381,752. AUTOMATIC LATHE. EMANUEL SCHEYER, New York, N. Y. Filed June 7, 1919. Serial No. 302,504. 26 Claims. (Cl. 29—42.)



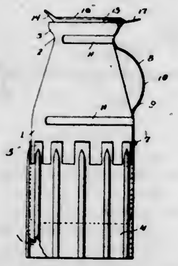
1. In a machine of the character described, the combination with a machine bed and a tool-carrier mounted thereon, of mechanism for causing the motion of the tool-carrier in reversible directions, a plurality of stops, a record provided with suitable means automatically to effect the desired control of said mechanism and the desired operation of said stops, said stops being suitably constructed to arrest the motion of the tool-carrier when called for and as selected by the record.

1,381,753. WASHBOARD-ANCHOR. FRANK JOSEPH SCHLAGER, Burlington, Iowa. Filed July 22, 1919. Serial No. 312,643. 1 Claim. (Cl. 68—29.)



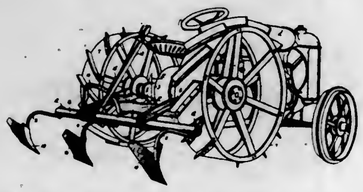
In combination, a transversely disposed bar, fastening means carried by the opposite ends of the bar for securing the latter to a fixed support, a pair of divergently disposed springs associated with the bar along one of its longitudinal edges, a plate carried by the opposite ends of said springs, and said plate being curved to define a hook at one of its longitudinal edges.

1,381,754. MILK-BOTTLE ATTACHMENT. ARTHUR R. SCHRADER, Chicago, Ill. Filed Dec. 27, 1919. Serial No. 347,653. 3 Claims. (Cl. 215—1.)



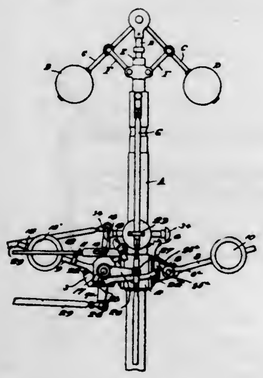
1. A milk bottle attachment comprising a heating receptacle encircling the bottom portion of the bottle, a clamp hinged to the receptacle, and a lid hinged to the clamp.

1,381,755. TRACTOR ATTACHMENT. JOHN FREDERICK SCHUALE, Cashmere, Wash. Filed June 29, 1920. Serial No. 392,697. 2 Claims. (Cl. 97—30.)



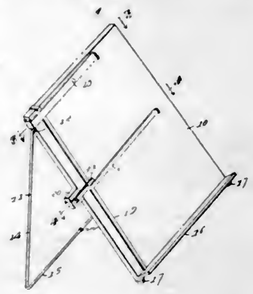
1. The combination with a wheeled supporting frame including a housing around the rear axle and a transverse frame bar located behind the rear axle, of a pair of longitudinal frame bars connected to the axle housing and supported on said transverse frame bar, depending semicircular hangers secured to the free ends of the longitudinal frame bars, a shaft mounted in the hangers, plow fixedly secured to the shaft, and means for rotating the shaft.

1,381,756. AUTOMATIC SAFETY-STOP FOR STEAM-ENGINES. GUSTAV J. SELK, Bend, Oreg. Filed Jan. 24, 1918. Serial No. 213,518. 5 Claims. (Cl. 121—47.)



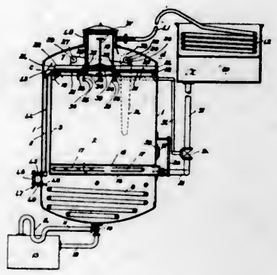
1. In combination with the speed governing means of an engine, weighted pivotal means supported on the engine, trip means engaged with the weighted means and operable upon movement of the speed governor's stem for actuating the same, cut-off valve operating means, and means connected to said cut-off valve operating means adapted to be actuated by the pivotal weighted members upon their release for moving the cut-off valve to closed position.

1,381,757. NOTEBOOK-HOLDER. JAMES SHEEAN, Camden, N. J. Filed Feb. 5, 1920. Serial No. 356,518. 3 Claims. (Cl. 120—28.)



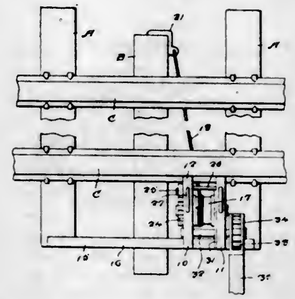
3. A copy holder having a base and means for supporting the same in a substantially upright position, front and rear guide ribs arranged parallel with one side edge of the base, a carrier block provided with yielding front and rear arms for bearing contact respectively with said ribs, the rear arm having a terminal hook for engagement with the rear rib to prevent accidental displacement of the block, and a yielding line indicating arm carried by the said block and extending transversely of the surface of the base.

1,381,758. APPARATUS FOR EXTRACTING OILS, FATS, GREASE, WAX, INDIA-RUBBER, SULFUR, AND OTHER SUBSTANCES SOLUBLE IN ORGANIC SOLVENTS FROM MATERIALS CONTAINING THE SAME. LOUIS JOHN SIMON and JOHN WILLIAM HINCHLEY, London, England, assignors of one-third to Standar Chemical Engineering Company, Limited, London, England. Filed Apr. 10, 1919. Serial No. 289,075. 5 Claims. (Cl. 87—6.)



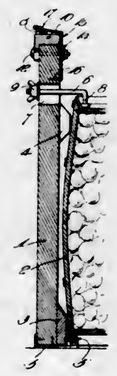
1. An apparatus for extracting oil, fat, grease, wax, india rubber, sulfur and other substances soluble in organic solvents from material containing or yielding the same, comprising a vessel having an extractor and a distiller positioned therein, said extractor being spaced from the top of the vessel, a charging tube extending through said top space, mechanism for sealing said tube, a discharge door in the lower portion of said extractor, a strainer positioned around said tube, a condenser tube communicating with said top space, means affording communication between said distiller and top space so that the overflow from the extractor may pass to said distiller, a lid adapted to cover said strainer and seal the extractor from the distiller without closing said means of communication, whereby vapors from the distiller may pass to the top space and condenser tube even though the lid is in closed position.

1,381,759. RAILROAD-TIE RENEWER. JESSE R. SMITH, Benton, Ill. Filed July 12, 1920. Serial No. 395,660. 2 Claims. (Cl. 254—43.)



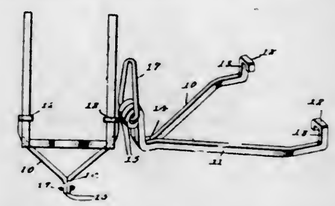
1. A tie renewer comprising spaced parallel side members, a supporting bar secured to the members and projecting from corresponding ends thereof, a winch journaled between the said parallel members, one of said members being recessed, a gear carried by the axis of said winch and arranged within said recess, a shaft journaled between the side members at the rear of said winch, a second gear carried by the said shaft and arranged within said recess and meshing with the gear of said winch, a removable plate associated with said side member and covering the said recess and said gears, means for rotating the said shaft whereby said winch is rotated, a cable having one end secured to the winch and adapted to be wound thereabout and unwound therefrom, a guide mounted on the frame for said cable, a hook like element carried by the free end of the cable, and means for preventing retrograde movement of the winch.

1,381,760. BARREL-HOOP-REPAIR DEVICE. GUY GARFIELD STAINES, Albion, N. Y. Filed Aug. 7, 1920. Serial No. 401,975. 4 Claims. (Cl. 144—288.)



1. A repair device for a barrel hoop comprising a standard, clamping means at the lower end of the standard for engaging the lower portion of a barrel, adjustable clamping means carried by the standard for engaging the upper portion of a barrel, a head for the standard having a longitudinally curved upper face and constituting an anvil, and means for engaging overlapping end portions of a hoop and holding the same upon the curved upper face of the anvil.

1,381,761. SUPPORT. GEORGE EDWARDS STANSBURY and RAYMOND HARPER, Catlin, Ill., assignors of one-half to H. C. Shockley, Danville, Ill. Filed Feb. 24, 1920. Serial No. 360,559. 2 Claims. (Cl. 294—82.)



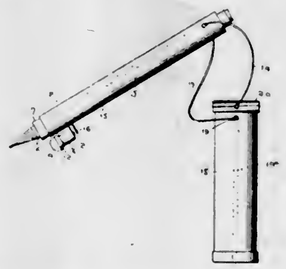
1. Means for elevating the rear end of a motor vehicle comprising two independently movable members divergently disposed and having their adjacent terminals in contacting engagement, a link associated with said terminals, said members being arranged to engage the under side of the chassis of the car adjacent the corners thereof, and hook like portions formed by the other ends of said members and adapted to overlie the upper portion of the opposed side members of the chassis as described.

1,381,762. PICTURE-FRAME. ISIDORE STARR, New York, N. Y. Filed Nov. 27, 1920. Serial No. 426,699. 1 Claim. (Cl. 40—152.)



A rectangular frame, a pair of transparent plates mounted in the frame and adapted to support between them an opaque sheet having printed matter on both of its faces, alined eyes projecting laterally from the sides of the frame and a flexible device having its ends secured to the eyes, whereby when said flexible device is suspended from a support, said frame may be rotated upon said flexible device to expose either face without removing the flexible device from its support.

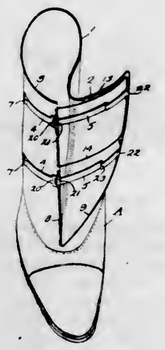
1,381,763. ILLUMINATED PENCIL. FERDINAND STRIDINGER and RUDOLPH MILLER, St. Michael, Pa. Filed Dec. 11, 1919. Serial No. 344,011. 4 Claims. (Cl. 240—2.)



2. A device of the character described comprising a holder for writing instruments, electric lamp supporting

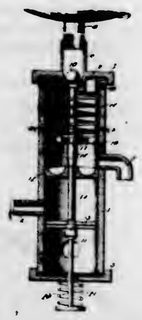
means arranged laterally thereof and a resilient laterally projecting circuit closing member carried by the holder normally disposed in spaced relation to and movable directly against the center electrode of a lamp mounted in said supporting means and arranged adjacent and engageable with the center electrode of the lamp.

1,381,764. SHOE-FASTENER. TEDDY L. TETIRICK and PHILIP J. MUELLER, Joplin, Mo. Filed Oct. 4, 1920. Serial No. 414,623. 2 Claims. (Cl. 24—71.)



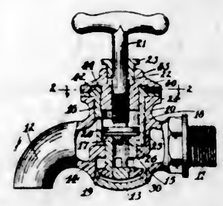
2. The combination with a shoe having a flap adapted to overlap the body portion when in closed position, of fastening means comprising a member secured to the body portion of the shoe, a pivoted member connected to said first member and connected to the edge of said flap, and a wire reinforcing member having one arm extending along the edge of said flap, and a second arm secured to the body portion of the shoe, said second arm forming the pivot for said pivoted member.

1,381,765. VALVE. GEORGE W. THOMPSON, Cheboygan, Mich. Filed Jan. 3, 1920. Serial No. 349,193. 1 Claim. (Cl. 137—139.)



In combination, a valve casing adapted to be interposed in the fuel line and the oil line of any gas or oil burning motor and having a partition dividing the casing into a fuel compartment and an oil compartment, the fuel compartment having an inlet at the top and an outlet near the partition, and the oil compartment having inlet and outlet ports spaced apart vertically, a plunger movable in the oil compartment and having a stem extending through the partition into the inlet port of the fuel compartment, a ball seating upon and closing the fuel inlet adapted to be unseated by the engagement of the plunger stem therewith when the plunger is above the oil outlet and the inlet and the outlet of the oil compartment are in communication, and a spring normally pressing the plunger downwardly.

1,381,766. TAP FOR CONTROLLING THE SUPPLY OF FLUIDS. EDWIN CHARLES TONKIN, Stockwell, London, and HENRY THOMAS COLLINS, Hampstead, London, England. Filed Nov. 13, 1919. Serial No. 337,711. 19 Claims. (Cl. 277—35.)



7. In a tap for controlling the supply of fluids, the combination with a main and an auxiliary valve of the screw-down type, of a seating member movable along the path of travel of the main valve, an internal flange in the body of the tap on one side of which the seating member normally rests, the other side of said flange comprising a seating for the auxiliary valve, a seating in the seating member for the main valve, an extension from such main valve seating carrying the auxiliary valve which valve is normally held off its seat, a main valve securing and seating operating member and means to lock said securing and operating member and said seating member together to permit of operation of the auxiliary valve, said locking means comprising contacting faces on both of said last named members, which faces lie approximately parallel to the direction of which the seating member moves.

18. In a tap for controlling the supply of fluids, the combination with a main and an auxiliary valve, of a single securing and operating member which secures the main valve in place and which operates the auxiliary valve to bring it into and out of closing position, and means to lock together the securing and operating member and the auxiliary valve, said locking means comprising a locking pin operatively carried by one of said members to be locked together and a shoulder in a recess in the other of said members, into which recess the pin projects and with which shoulder the pin contacts to lock together the said parts and permit the auxiliary valve to be operated, the relative dimensions of the pin and recess being such as to permit lost motion between the securing and operating member and the auxiliary valve whereby the former can be adjusted within limits to secure the main valve in place without operating the auxiliary valve, substantially as described.

1,381,767. STEAM-SEPARATOR. HAYDEN H. TRACY, San Francisco, Calif. Filed Oct. 2, 1919. Serial No. 327,910. 2 Claims. (Cl. 183—75.)

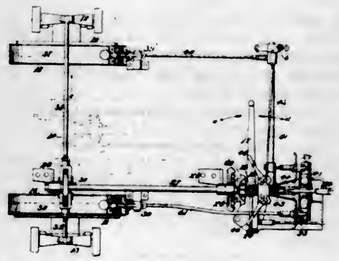


1. A steam separator including a housing, a series of interspaced baffling plates interposed from end to end within the housing and disposed in two parallel groups

interspaced to form a central steam passage, a discharge passage for steam connecting with said central passage, angularly disposed bottom plates forming a concave collecting chamber for water and scum and a connecting pipe and trap, and guard plates on each side of the housing disposed on converging inclines secured to the top and bottom plates and provided with end plates to prevent the admission of foam except to the upper part of the baffle plates.

1,381,768. [WITHDRAWN.]

1,381,769. TRACTION-ENGINE CONTROL. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 12, 1918. Serial No. 249,482. 2 Claims. (Cl. 180—17.)



1. In a vehicle, the combination with a pair of steering clutches at each side thereof, an inwardly extending shift-rod for each clutch, of a steering post located forwardly of the clutches, and a longitudinally extending rock shaft operatively connected with the steering post and having one way connections with the shift-rods.

1,381,770. TERMINAL GROUND-CLAMP. WHEELER H. VIBBER, New London, Conn., assignor of one-half to The Gillette-Vibber Co., New London, Conn., a Corporation. Filed Aug. 9, 1920. Serial No. 402,262. 2 Claims. (Cl. 173—273.)

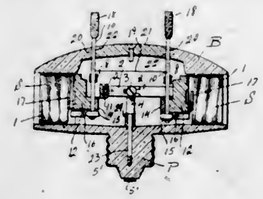


2. A terminal or ground clamp for electrical conductors consisting of a flexible metal strip formed at one end with a plurality of perforations and bent at its other end to form an upstanding loop the legs of which are perforated and the outer or free leg of which is bent outwardly near the bow of the loop, in combination with a screw passing through the said perforations in the legs of the loop and through one of the perforations in the other end of the strip, and a nut positioned upon the screw to engage with the outer face of said other end of the strip.

1,381,771. METHOD OF TREATING IRON AND STEEL. FELIX VISINTAINER, Glacier, Wash., assignor of one-fourth to William Lemm, Bellingham, Wash. Filed Sept. 18, 1920. Serial No. 411,162. 3 Claims. (Cl. 75—49.)

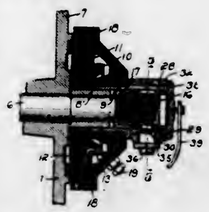
1. In the treatment of iron and steel, the process of coating the metal with a mineralized clay substantially comprising silica 61.12%, ferric oxid 7.92%, alumina 16.06%, calcium oxid 6.39%, magnesium 3.46%, sulfur 0.86%, alkali 0.53%, and moisture 3.66%, mixed with water to the consistency of paste, raising it to the required temperature for the purpose desired and shaping it into the desired form.

1,381,772. ELECTRICAL CONNECTOR. FLAKE M. WAKEFIELD, Anniston, Ala. Filed May 1, 1920. Serial No. 378,193. 3 Claims. (Cl. 173—337.)



1. An electrical connector comprising a tubular body having an outstanding plug substantially midway thereof, said plug being provided with a pair of contact members, sockets arranged within the opposite end portions of the bore of the tubular member, each of said sockets being provided with a pair of contact members, arms in electrical connection with the contact members of the plug and extending inwardly of the bore of the tubular member, an electrical connection between a contact member of each of the sockets and one of the arms, a rotatable member coacting with each of the sockets and in electrical connection with the second arm, each of said rotatable members being provided with a contact member for engagement with the second contact member of the adjacent socket.

1,381,773. IGNITION APPARATUS. HAROLD D. WATERHOUSE, Quincy, Mass., assignor, by mesne assignments, to Walter S. Crane, Joshua Crane, and Frank V. Stone, trustees. Filed Jan. 14, 1918. Serial No. 211,737. 10 Claims. (Cl. 200—19.)



1. In an internal combustion engine having a valve shaft, a nut, distributing means including a sleeve secured to the end of the valve shaft and counterbored interiorly to receive said nut engaging the threads on the end of said valve shaft, a second sleeve surrounding said first-named sleeve and removable therefrom over said nut while the latter remains in threaded relation to the shaft.

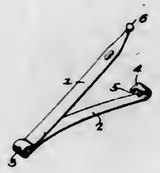
1,381,774. SYRINGE. SAMUEL E. WEINER, Atlantic City, N. J. Filed July 3, 1920. Serial No. 393,894. 2 Claims. (Cl. 128—234.)



1. A syringe comprising a barrel having a tapered apertured end, a medicament containing sack disposed in said

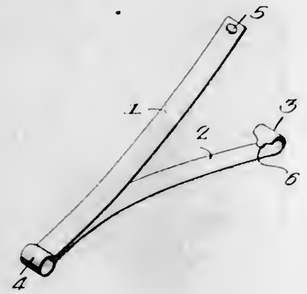
end of the barrel and a plunger in said barrel and movable therein to draw a fluid through the aperture of the barrel and through the sack and its contents to the interior of the barrel and subsequently eject the resulting fluid solution upon the reverse movement of the plunger in the barrel.

1,381,775. HAIR-CURLER. AUGUSTUS A. WEST, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 25, 1920. Serial No. 384,030. 2 Claims. (Cl. 132—41.)



1. A hair curler comprising two resilient arms joined together at one end, the outer end of one of said arms being turned inwardly and backwardly to form a hook under which the outer end of the said other arm may be inserted, the end-edge of said hooked arm being notched for the reception of said other arm, and an enlargement at the outer end of said last named arm, substantially as and for the purpose set forth.

1,381,776. HAIR-CURLER. AUGUSTUS A. WEST, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 27, 1920. Serial No. 384,613. 2 Claims. (Cl. 132—41.)

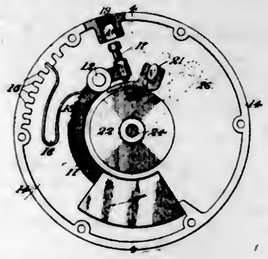


1. A hair curler comprising two resilient arms joined together at one end thereof, the outer end of one of said arms being turned inwardly and backwardly to form a hook under which the outer end of said other arm may be inserted, and the outer end of said last-mentioned arm having a hole therein for the reception of the turned-over end of said first-named arm, substantially as and for the purpose set forth.

1,381,777. BASE-EXCHANGE COMPOUND AND PROCESS OF MAKING THE SAME. HAROLD JOSEPH WHEATON, near Warrington, England, assignor to Joseph Crosfield and Sons, Limited, Warrington, England. Filed Nov. 6, 1919. Serial No. 336,060. 4 Claims. (Cl. 23—13.)

1. A process which comprises partially neutralizing with mineral acid a solution of silicate of soda, drying the resultant gelatinous mass and washing the dried mass to free it of any excess of soluble salts, and to render it suitable for use as a water purifier and softener.

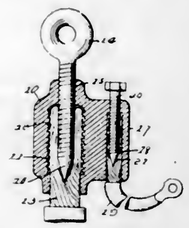
1,381,778. SPEED-GOVERNOR. ELMER E. WICKERSHAM, Sunnyvale, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Mar. 20, 1917. Serial No. 155,970. 5 Claims. (Cl. 264—13.)



1. A speed governor, comprising a rotatable casing, a centrifugal lever pivoted thereon, a friction shoe carried by the casing and controlled by said lever, and a disk journaled in said casing and engageable by the shoe to receive motion therefrom.

5. A speed governor, comprising a rotatable casing, a centrifugal lever carried in said casing, a shoe carried by said casing, a disk journaled centrally in said casing and adapted to be engaged by the shoe to receive motion therefrom, and a set-screw on the inwardly moving end of said lever to engage with the shoe, said casing being provided with an opening to permit the adjustment of the set-screw from without.

1,381,779. DEAD-END CLAMP FOR CABLES. THOMAS M. WILLIAMS, Gary, Ind. Filed Sept. 25, 1919. Serial No. 326,264. 1 Claim. (Cl. 24—123.)

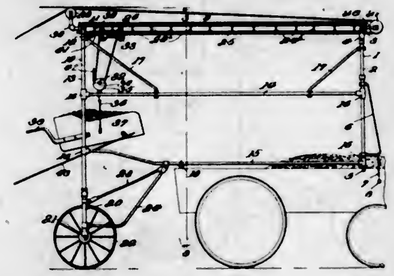


A dead end clamp for cables consisting of a shell formed with a socket opening at one end and provided on the inner wall with serrations defining peripheral teeth whose free edges are rounded and whose upper faces lie in planes at right angles to the axis of the socket, the lower faces of the teeth being inclined to lie at acute angles with said axis, whereby a cable end inserted in the socket may have the strands thereof brought into contact with the edge of the teeth and caused to bulge over the flat top faces of the same, and a bolt threadingly engaged with the shell and axially alined with the socket which it enters from the closed end, the belt being formed with a pointed extremity for penetration between the strands of the cable to effect spreading of the latter for engagement with the said teeth.

1,381,780. LOADING APPARATUS. EDWARD B. ALLEN, Alexandria, La. Filed Oct. 7, 1918. Serial No. 257,246. 2 Claims. (Cl. 214—86.)

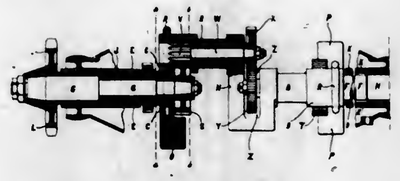
1. The combination with a vehicle body, of a loading apparatus including an inverted U-shaped rear frame having side bars provided at their lower ends with forks, wheels mounted in said forks and supporting the rear frame, an inverted U-shaped front frame having side bars provided at their lower ends with saddles adapted to rest

on the side bars of the vehicle body, substantially horizontal bars having their ends rigidly connected to said frames and spacing the same apart, means detachably securing the side bars of the front frame to the vehicle



body, a gathering device adapted to gather the material to be loaded into said body, and means supported by said frames and attached to said gathering device for moving said gathering device toward the vehicle body.

1,381,781. COMBINED CRANK-SHAFT AND DIFFERENTIAL GEAR. STEPHEN EVANS ALLEY and ARTHUR THOMSON, Shrewsbury, England. Filed Sept. 15, 1920. Serial No. 410,528. 2 Claims. (Cl. 74—99.)



1. A combined crank-shaft and differential gear having two crank pins at right angles and comprising hollow end-shaft members within which are differential shafts having on their inner ends, and within the crank webs, pinions meshing through gaps in the inner peripheries of the hollow crank pins with pinions formed on shafts lying within the pins and having at their inner ends intermeshing pinions accommodated in a gapped web member connecting the adjacent ends of the two crank pins.

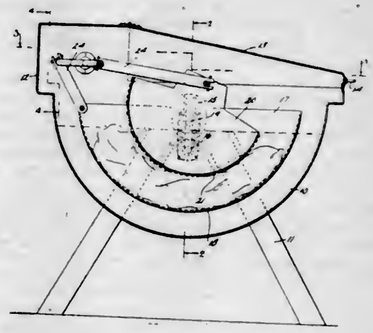
1,381,782. PROCESS OF MAKING SUBSTANTIALLY ANHYDROUS ORGANIC ACIDS. ROLAND L. ANDREAU, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 31, 1919. Serial No. 334,847. 4 Claims. (Cl. 23—24.)

1. The process of making acetic acid which consists in suspending an acetate in a paraffin oil, adding sulfuric acid, and removing the acetic acid formed by the reaction of the acetate and the sulfuric acid.

1,381,783. PROCESS OF MAKING PHOSPHORUS OXYCHLORID. THOMAS LEES BARTLESON, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 21, 1920. Serial No. 418,575. 3 Claims. (Cl. 23—10.)

1. The process of producing phosphorus oxychlorid which comprises bringing phosgen into contact with molten metaphosphoric acid.

1,381,784. WASHING-MACHINE. CLINTON E. BEARDSLEY, Rice Lake, Wis. Filed Mar. 31, 1920. Serial No. 370,119. 1 Claim. (Cl. 68—20.)



A washing machine including a tub, strips forming guideways arranged at diametrically opposite points upon the inner face of said tub, a clothes receptacle, a rubber movably mounted within said receptacle, trunnions mounted on the end walls of said receptacle and rubber and resting in said guideway, and means for oscillating said receptacle and rubber.

1,381,785. SECONDARY WINDING FOR INDUCTION-MOTORS. HENRY BEWLAY, Mansfield, Ohio, assignor of one-half to The Ideal Electric & Mfg. Co. a Corporation of Ohio. Filed May 18, 1918. Serial No. 235,231. 1 Claim. (Cl. 172—120.)



A short circuited jointless coil for an induction motor secondary, comprising a one piece U-shaped sheet metal punching wherein the leg parts extend perpendicularly to the base part, and having a continuous slit extending from near the end of one leg part, along the base part, and to a point near the end of the other leg part, substantially as described.

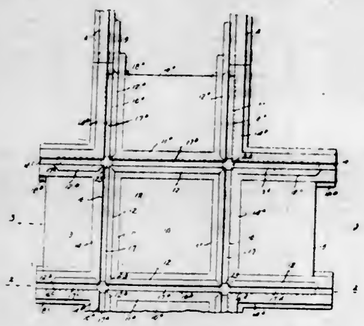
1,381,786. WRENCH. JOE E. BONNETT, Troy, W. Va. Filed Aug. 24, 1920. Serial No. 405,692. 1 Claim. (Cl. 81—170.)



In a wrench of the class described, a hollow shank comprising a body having a fixed jaw at one end and a reduced externally threaded neck at its other end, the bore of said shank body being polygonal in cross sections and that of the neck circular with a shoulder at the junction

of said bore, a stem mounted to slide in said shank the cross section thereof conforming to that of the bore of said shank, said stem being provided with a jaw at one end to coöperate with the jaw on said shank and having a threaded bore closed at its jaw carrying end and opening through its other end, a combined jaw adjusting screw and handle stem having a portion at one end threaded to adjustably engage the bore of said hollow stem and an unthreaded portion mounted to rotate in said neck and equipped with an annular flange positioned to abut the rear end of said neck, a collar encircling said handle stem at the rear of said flange, encompassing said flange and provided with a sleeve having threaded engagement with said neck, and a handle secured to the rear end of said handle stem and connected so that the rotation of the handle will turn the stem and thereby adjust the movable jaw, said adjusting screw and handle shaft being completely housed throughout its entire length as well as the parts coöperating therewith.

1,381,787. RAILWAY-CROSSING. RICHARD EAGER BOWEN, Los Angeles, Calif. Filed June 4, 1920. Serial No. 386,616. 3 Claims. (Cl. 246—457.)



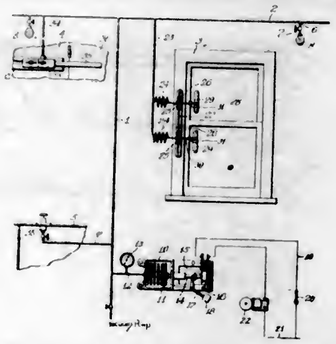
1. A crossing presenting intersecting grooves for the wheel flanges, said crossing comprising a base presenting undercut recesses along one side of each groove, elements in the grooves at the bottom and extending into said recesses, and removable wedge-shaped locking elements for said first-mentioned elements at the opposite sides from said recesses, the grooves at their intersections being of a depth to cause the wheel flanges to travel on the bottom surfaces of the grooves, the adjacent surfaces at the outer sides of the grooves being at elevations to lie below the wheel treads.

1,381,788. MOISTURE-PREVENTING COMPOSITION. WILLIAM H. BRABANT, Sheboygan, Wis. Filed Sept. 25, 1920. Serial No. 412,734. 2 Claims. (Cl. 134—27.)

1. A composition of the character described comprising sugar and paraffin combined with tobacco water substantially as herein described.

1,381,789. BELLOWS-ACTUATED SWITCH. CLARENCE A. BRACONIER, Ypsilanti, Mich. Filed Sept. 14, 1918. Serial No. 254,150. 1 Claim. (Cl. 200—81.)

A bellows actuated switch comprising a frame, a switch at one end of said frame having normally open switch members, a bellows in the opposite end of said frame normally retracted by a partial vacuum therein, a plunger slidable in said frame and axially connected to said bellows and adapted to close said switch members when the partial vacuum is destroyed in said bellows, and a bell crank carried by the lower edge of said frame and having one end thereof engaging said plunger intermediate said bellows and said switch and the opposite end thereof provided with a weight below said frame, said weighted bell crank



adding impetus to the movement of said plunger by said bellows to prevent vibrations of said bellows from opening said switch.

1,381,790. STOVE. FRANK HUGO BRAND, Elmwood Place, Ohio. Filed Apr. 8, 1918. Serial No. 227,264. 1 Claim. (Cl. 126—90.)

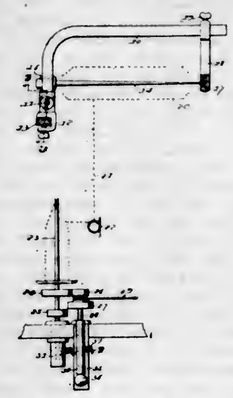


A stove comprising an outer drum, having an inturned flange at its upper end; a base, said base having a flange arranged to engage said drum; air passages in the flanges of said drum and base; an intermediate drum arranged to rest upon said base and to fit snugly in and to extend above the outer drum flange so as to leave a passage between said drums; a third drum fitting snugly inside said intermediate drum; grate bars for the support of fire clay in the bottom of said third drum; a ring for securing the inner ends of said bars; a pipe arranged to fit inside said ring and to extend through said third drum so as to leave a combustion chamber between said pipe and third drum; burners arranged at the bottom of said combustion chamber; a cover arranged to fit over said combustion chamber; a flue in said cover; a hot air pipe fitting snugly in said first pipe and arranged to extend through and above said cover, and an ornamental top, said top being provided with a central passage for said hot air pipe and with openings arranged to serve as outlets for air currents from the passage between the outer and intermediate drums.

1,381,791. AUXILIARY YARN SPOOLER OR WINDER. CLIFTON M. BYRD, Lagrange, Ga. Filed Aug. 22, 1919. Serial No. 319,202. 2 Claims. (Cl. 242—18.)

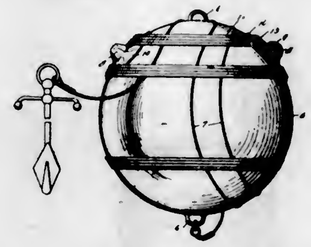
1. A yarn spooling mechanism having a rewinder spindle provided with a plurality of pulleys of different diameters, a driving spindle having pulleys for respective engagement with those of the rewinder spindle, a socket bearing for the driving spindle, a carrier mounted for movement

parallel with the rewinder spindle and having the said socket bearing pivotally mounted thereon, and means for



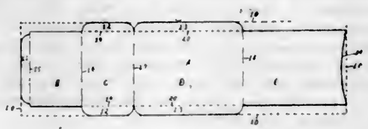
imparting longitudinal and transverse movement to said socket bearing, in combination with feeding means for supporting a tangled cop.

1,381,792. SUBMARINE MINE. THOMAS J. CAHILL, Philadelphia, Pa. Filed Apr. 17, 1920. Serial No. 374,650. 4 Claims. (Cl. 102—3.)



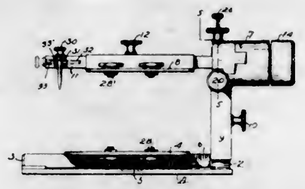
2. The combination with a submarine mine having a horn thereon, of a guard plate located over said horn, means for holding the guard plate in position, and means whereby submersion of the mine automatically releases the guard plate.

1,381,793. DUPLEX ENVELOP. JULIUS S. CAINE, Des Moines, Iowa. Filed Aug. 11, 1919. Serial No. 316,896. 2 Claims. (Cl. 229—72.)



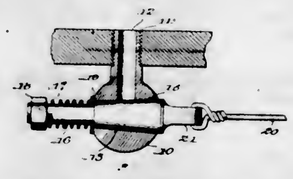
1. In a device of the class described, an envelop formed from a single blank by folding the ends of the blank upon the central portions to thereby form independent compartments, sealing flaps adapted to close the ends of said compartments and a flap formed at one end of said blank adapted to extend past the line upon which said compartments are folded, when one is swung over to position where it is superimposed upon the other.

1,381,794. ANATOMICAL ARTICULATOR. ROBERT EDGAR CAMPBELL, Berkeley, Calif. Filed Jan. 7, 1920. Serial No. 350,032. 7 Claims. (Cl. 32—1.)



1. An anatomical articulator comprising a base member, a post vertically disposed thereon, a head member vertically adjustable on the post, a socket member journaled in the head, an arm carried by said socket member, said arm being laterally and vertically movable about the socket member, screws and adjusting springs for limiting the downward movement of the arm, screws and opposing springs for varying the lateral movement of the arm, and an upper mounting plate carried by the arm.

1,381,795. VALVE. JOHN A. CARSON, Huntington, N. Y. Filed Nov. 15, 1919. Serial No. 338,247. 3 Claims. (Cl. 137—139.)



1. A valve structure as characterized comprising a body having a tapered bore therein and a screw threaded stem extending from said body and having a passage opening to said bore, a tapered plug arranged for reciprocatory movement in said bore and extending from end to end thereof, the plug being movable to permit the flow of a fluid through said passage and said bore, means at one side of the body for holding the plug in said bore and permitting the movement of the plug, and means at the opposite side of said body for moving the plug.

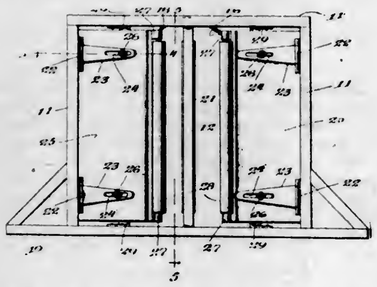
1,381,796. LAMP-SHADE HOLDER. LEONARD HENRY CASSWELL, Maidstone, England. Filed Oct. 24, 1919. Serial No. 333,021. 3 Claims. (Cl. 240—111.)



1. The combination, with a lamp shade, of vertically extended members secured to said shade, a carrier ring
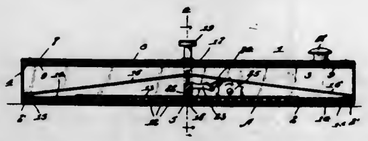
adapted to be secured to a jamp, spring clips adapted to hold said vertically extended members friction-tight, and means including pivotal joints connecting said clips and said carrier ring and adapted to hold said clips friction-tight in a position to which they are adjusted.

1,381,797. STOCK-SEPARATOR. HERMAN D. CASPERS, Sheffield, Iowa. Filed Apr. 1, 1921. Serial No. 457,573. 3 Claims. (Cl. 119—155.)



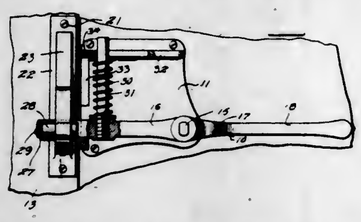
1. A stock separator comprising a frame, a main gate carried centrally by one side of the frame, movable doors mounted in the frame at opposite sides of the mounting of the main gate, and means for adjusting the doors toward and away from the said mounting of the main gate.

1,381,798. TYPEWRITER. MANUEL CHARLES, Mexico, Mexico. Filed Mar. 2, 1920. Serial No. 362,871. 3 Claims. (Cl. 197—57.)



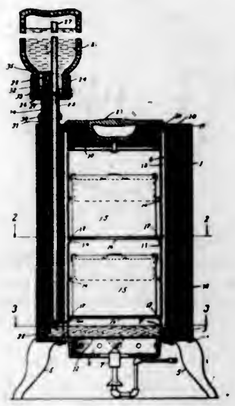
1. A pocket typewriter comprising a channel shaped frame having a type opening therein and longitudinal guideways in its upper part, a guiding frame longitudinally movable in said guideways, a carrier member adjustable transversely on said guiding frame, rows of type carried by said member, a vertically movable type actuating member for depressing the type through the type opening, an inking ribbon supported by the carrier member and engaging a portion of the actuating member.

1,381,799. REFRIGERATOR-DOOR LATCH. CHARLES R. CHENERY, Buffalo, N. Y. Filed Apr. 1, 1919. Serial No. 286,644. 1 Claim. (Cl. 292—242.)



A refrigerator door latch and opener comprising the combination with a refrigerator door and door frame, of a shaft mounted for rotation in said door, a plate engaged upon each face of said door and forming a bearing for said shaft, a handle formed on the inner end of said shaft and having its main portion offset from the inner face of the door, a second handle mounted on the outer end of said shaft and rigidly connected therewith, said second handle having its main portion offset from the outer face of said door to form a hand grip, a latch carrying extension formed with the second mentioned handle and directed oppositely thereto, said latch carrying extension having a cut out portion adjacent its free end, a roller mounted in said cutout portion, said latch carrying extension having an increased apertured portion inwardly of said roller, a pin threaded in said enlarged apertured portion and extended upwardly, a rib carried by the plate positioned upon the outer face of said door, said pin being extended through an elongated slot of said rib, a spring positioned on said pin between said latch carrying extension and said rib to resiliently retain the latch carrying extension downwardly in a horizontal plane, and a keeper mounted on said door frame and provided with an outwardly extended vertical rib having a downwardly inclined slot formed therein with one wall of the slot separated from the main portion of the rib intermediate the ends of the slot and turned downwardly whereby the roller may ride in said slot to force the door into closed position in said door frame, said roller being adapted to force the door into closed position in said door frame, said roller being adapted to force the door outwardly when raised in the slot of the keeper, said plate and the outer face of the door being provided with a guide for the latch carrying extension.

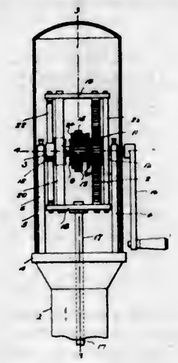
1,381,800. COOKER. CLAUD J. CLEFTON, Owatonna, Minn., assignor, by mesne assignments, of one-half to Guy J. Clefton, Owatonna, Minn. Filed Aug. 11, 1919. Serial No. 316,705. 4 Claims. (Cl. 126—20.)



1. A cooking unit having in combination, a cooking compartment, a heating element to heat water in the compartment, a container to hold a supply of water, a waterway connecting the container and compartment, a vent also connecting the container and compartment, said water-way and vent being so arranged as automatically to prevent the water in the compartment from falling below a predetermined level.

1,381,801. PUMP. CHARLES L. CODDING, Sr., Perth, N. Y. Filed Aug. 3, 1920. Serial No. 400,952. 3 Claims. (Cl. 103—62.)

1. The combination in a pump, of supporting means, a reciprocatory piston rod, rotary actuating means mounted in the supporting means, and a driving connection between said rotary actuating means and the piston rod for reciprocating the latter by rotation of the former; the said driving connection comprising rack bars movable with the piston rod, rotary gears intermeshed with said rack bars and loose on the rotary actuating means and having inner ratchet faces, an endwise movable spur

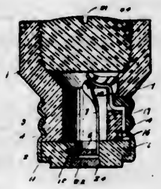


gear keyed to the rotary actuating means and having ratchet disks at its ends and also having spaced plates, and a spur gear of a less thickness than the width of the space between said plates, intermeshed with the first-named spur gear and having cam shoes at its sides to engage said plates.

1,381,802. METHOD FOR RECOVERING VANADIUM. LEONARD S. COPELIN, Millers, Nev. Filed May 28, 1920. Serial No. 384,922. 7 Claims. (Cl. 23—13.)

1. The method of recovering vanadium from ores and compounds containing the same which consists in the treatment of the ore with sodium sulfid solution in the presence of heat.

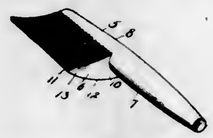
1,381,803. FUSE-PLUG. THOMAS F. COTE, Winnipeg, Manitoba, Canada. Filed May 28, 1919. Serial No. 300,268. 2 Claims. (Cl. 200—130.)



1. A fuse plug comprising a body having each end open, a closure plug closing one end of the body, a disk engaging the other end of the body and having a centrally arranged opening and an annular shoulder, a ferrule secured to the body and engaging said shoulder, a gage disk in said opening and having a portion thereof spaced from the wall of said opening to provide a fuse receiving slot, a fuse extending through the slot and into the body, means connecting the fuse to the ferrule, and a plug secured in the opening and forcing one end of the fuse against the gage disk.

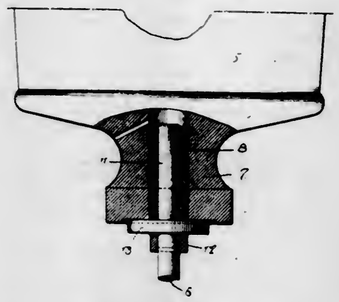
1,381,804. COMB. SAMUEL T. CRAWFORD, Washington, D. C. Filed Feb. 1, 1919. Serial No. 274,460. Renewed Apr. 13, 1921. Serial No. 461,151. 1 Claim. (Cl. 132—18.)

A comb of the class specified having a back extending from a handle, the back tapering from the handle portion to the front end of the comb and having a rear convex side and a front longitudinally straight flat side, a plurality of teeth all of equal length projecting from the front flat side of the back and having lower convex sides merging regularly into the said convex rear side of the back to provide a smooth rolling surface formed by the combined lower edges of the teeth and the rear side of the back, the teeth tapering toward their free ends and having upper uniform concave edges to provide a concave



recess throughout the series of the teeth for application in said recess of cutting shears, the tapering back gradually reduced toward its free end effecting a balancing action of the comb when the latter is operated by gripping the handle and whereby the comb may also be tilted longitudinally and the thickest part of the back at the juncture with the handle serving alone as the fulcrum for operating the comb to permit varying length cuts to be made with the comb.

1,381,805. SPINNING-BOX MOUNTING. HENRY CREWDSON, Roanoke, Va., assignor of one-half to Courtaulds, Limited, London, England, and one-half to The Viscose Company, Roanoke, Va. Filed Dec. 9, 1919. Serial No. 343,640. 5 Claims. (Cl. 118—49.)



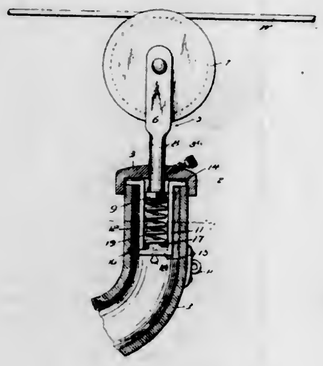
1. A spindle, a mushroom thereon, a spinning box freely resting on said mushroom, and a steep pitch screw connection between said mushroom and spinning box to prevent slippage on the drive of the spindle.

1,381,806. PRINTING-PRESS ATTACHMENT. JOHN HENRY CUNNINGHAM, San Francisco, Calif. Filed July 16, 1920. Serial No. 396,630. 7 Claims. (Cl. 34—18.)



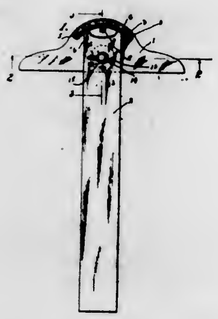
3. An attachment for printing presses comprising a burner tube, a flexible pipe connecting the burner tube to a gas supply pipe, an air discharging tube located under the burner tube and connected to the air line of a printing press, and means for directing a continuous current of heated air downwardly from said air tube.

1,381,807. TROLLEY-HEAD. HENCEL DAFFRON and CLYDE C. PULLEM, Detroit, Mich. Filed Feb. 5, 1921. Serial No. 442,745. 4 Claims. (Cl. 191—59.)



1. The combination with a trolley pole having a casing at its upper end, of a trolley wheel supporting fork having its shank mounted for yieldable longitudinal movement in said casing, and coöperating means carried by said casing and shank to hold the latter against lateral movement.

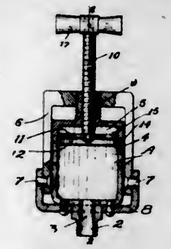
1,381,808. T-SQUARE. MARTIN D. DAVIS, Daleville, Ind. Filed Dec. 4, 1920. Serial No. 428,273. 4 Claims. (Cl. 33—100.)



1. In a T-square, the combination of a head having a recess therein, a blade pivotally mounted upon the head concentric with said recess, and opposed friction disks housed within the recess of the head and secured respectively to the head and the blade.

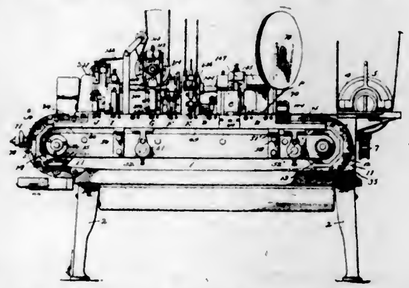
1,381,809. GREASE-CUP. WILLIAM W. DAVIS and WILLIAM W. MACDONALD, San Francisco, Calif. Filed Aug. 13, 1919. Serial No. 317,187. 12 Claims. (Cl. 184—38.)

10. A grease cup comprising an open ended cup having a discharge opening formed at the opposite end thereof, a bail pivotally attached to the cup, a cover carried by the bail, and vertically adjustable therein, a screw rod carried by the cover and vertically adjustable with relation to the cover and cup, a disk secured on the lower end of the screw rod, and a thin metallic disk secured to the first named disk, said thin metallic disk being constructed of



spring metal and provided with an annular downwardly turned rim, said rim having a diameter slightly larger than that of the first named disk.

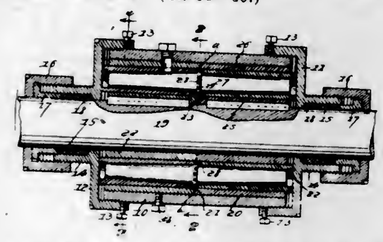
1,381,810. LATCH-NEEDLE-MAKING MACHINE. WILLIAM H. DAYTON, deceased, Torrington, Conn., by James M. Dayton, administrator, assignor to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Nov. 19, 1918. Serial No. 263,208. 60 Claims. (Cl. 163—3.)



1. The combination of a needle holding chuck, means for forming a needle latch, means for inserting the latch in the slot of a latch needle, and means for securing the latch in said slot.

42. The process of riveting a latch to a needle consisting in subjecting a rivet to a series of light and substantially uniform blows to enlarge the rivet intermediate its ends and to head said ends.

1,381,811. JOURNAL-BEARING. GEORGE W. DENTON, South Bend, Ind. Filed Sept. 7, 1920. Serial No. 408,584. 9 Claims. (Cl. 64—60.)



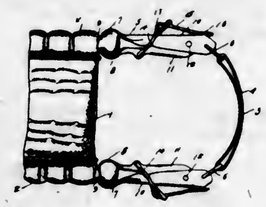
9. A journal, a journal box including a tubular member concentric to the journal, bearing rollers disposed between the journal and the tubular member, each of said rollers having a circumferential flange formed on its periphery with a series of teeth, a sleeve surrounding the journal, and a sleeve surrounding the bearing rollers, one of said sleeves being composed of tapering sections shiftable longitudinally to take up wear, one of said sleeves and the tubular member being formed with a circumferential groove to receive the circumferential flanges on the rollers, said groove being formed with teeth to mesh with the teeth on said flanges, and means carried by the journal box whereby said tapering sleeve sections may be shifted longitudinally to take up wear.

1,381,812. TRACE-CARRIER. HENRY D. EASTLY, Kennebec, S. D. Filed Apr. 1, 1920. Serial No. 370,468. 1 Claim. (Cl. 54—56.)



A trace carrier comprising a frame having opposite upstanding posts formed therewith and provided with flat side faces, an arch extending across said frame and formed as a part thereof, said arch being extended across the frame between said posts, and a flat spring member extended transversely beneath the center of said arch and pivotally connected thereto at the central portion of said spring member, said flat spring member being positioned with its narrow edges upwardly and downwardly and with the end portions of one of the flat sides thereof resiliently contacting with flat side faces of said upstanding posts adjacent the upper ends thereof, the end portions of said posts and said flat spring member being rounded to permit ready engagement of eye members on said posts and disengagement of said eye members from said posts, said frame being provided with perforated ears extended outwardly at points opposite said posts and at points opposite the ends of said arch for attachment of harness strap members with said frame, said frame being curved to conform to the body of a draft animal.

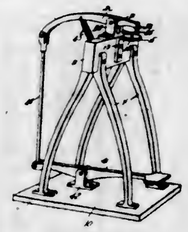
1,381,813. MATTRESS-TURNER. BESSIE K. ENGEVIK, Tacoma, Wash. Filed May 8, 1920. Serial No. 379,845. 4 Claims. (Cl. 294—86.)



1. A mattress turner comprising a strap, loops carried by said strap, and clasps hinged to said loops for detachably connecting the strap to a mattress.

1,381,814. BOOK-INDEXING MACHINE. WILLIAM FARKAS, New York, and CHARLES GREBENSTEIN, Brooklyn, N. Y. Filed Aug. 10, 1920. Serial No. 402,576. 1 Claim. (Cl. 164—43.)

A machine for cutting indexing notches into leaves of a book, comprising a stand provided with a bracket, a disk mounted to turn on the said bracket and forming a support for a plurality of superposed leaves in step fashion, a lever fulcrumed on the said stand and having its forward end above the said disk, a cutter attached to the said front lever end and having a segmental cutting edge at its lower end, the plane of the said cutting edge being approximately parallel to the face of the said disk to cut a notch into the leaves on the downward movement of the cutter, the cuts in the several leaves increasing gradually in depth, the cut in the lowermost leaf being the deepest,



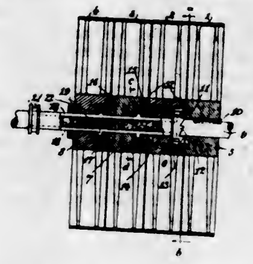
a treadle, a link connecting the said treadle with the said lever, and a spring returning the lever and its cutter to normal inoperative position.

1,381,815. PUNCTURE-PROOF AUTO-TIRE. ROBERT H. FENLEY, Fort Worth, Tex. Filed May 19, 1920. Serial No. 382,661. 1 Claim. (Cl. 152—18.)



A tire including a carcass, circumferentially extending protector plates secured to the carcass on each side of the tread portion of the latter, said plates having thickened portions, radially extending flanges formed on the thickened portions of the plates and spaced from the outer edges of said plates, and a tread positioned between the flanges and resting on the plate and cemented to the tread portion of the carcass.

1,381,816. MOTOR-DRIVEN AGRICULTURAL MACHINE. OLOF FRANKMAN, Malmo, Sweden. Filed Oct. 25, 1919. Serial No. 333,339. 4 Claims. (Cl. 180—20.)

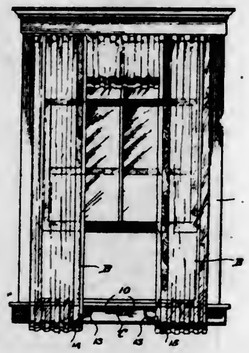


1. A motor-driven agricultural machine including a shaft, a series of wheels adjacently mounted thereon, one of said wheels being mounted to rotate with the shaft, the remaining wheels being rotatably mounted on said shaft, the wheels having hubs and coöperable means carried thereby, whereby motion imparted to the shaft and fixed wheel may be applied to the rotatable wheels by operating the coöperable means.

1,381,817. CURTAIN-HOLDER. ALLIE M. FREEMAN, Helena, Mont. Filed Oct. 2, 1920. Serial No. 414,196. 3 Claims. (Cl. 156—33.)

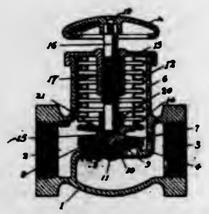
2. Means for holding the lower end of a curtain to prevent blowing thereof across the sill comprising a pene-

trating member adapted for engagement beneath a window sill, a flexible member connected with said penetrating



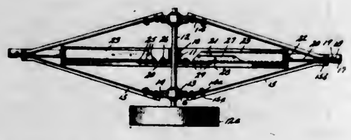
member, and a securing member carried by the other end of the flexible member and detachably engageable with the edge of the curtain.

1,381,818. PACKLESS VALVE. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Aug. 21, 1916. Serial No. 116,003. 5 Claims. (Cl. 251—141.)



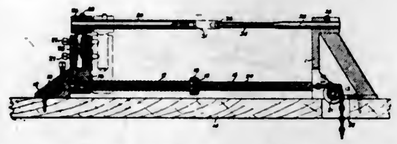
2. A packless valve comprising a valve casing, a valve member therein, an expansible and collabsible corrugated tubular wall having an inherent resiliency and connected to said valve member, said wall providing a fluid-tight partition in said valve casing, a socket member connected to said wall on the opposite side from said valve member, and a valve stem loosely fitting in but unattached to said socket member, said valve member being moved in one direction and said wall stressed by the corresponding movement of said valve stem, and said valve member being moved in the opposite direction throughout its range of movement by the resiliency inherent in said wall as said valve stem is withdrawn.

1,381,819. FAN OR BLOWER. EDWARD L. GARFIELD, Tuckahoe, N. Y. Filed Mar. 22, 1920. Serial No. 367,945. 6 Claims. (Cl. 253—179.)



4. A fan or blower including a frame, a fan casing within said frame, means connecting the fan casing with the frame, spider arms divergent toward their outer ends, means rigidly connecting the outer ends of the spiders with the frame and the first-mentioned means, alined bearing mounts rigid with the respective spiders, bearings in said mounts, a shaft turning in said bearings, fan blades within said casing and means mounting said blades and arranged to turn with said shaft.

1,381,820. TURNOVER-MACHINE. LOUIS GOLDSTEIN, Brooklyn, N. Y. Filed Jan. 19, 1921. Serial No. 438,431. 4 Claims. (Cl. 139—47.)



1. A turnover machine for turning over open-ended tubular fur pieces, comprising a fixed rod and a movable rod, one of the rods extending through the open ended tubular piece to be turned over, the axes of the rods being on line and the adjacent ends of the rods having clamping means clamping between them the open end of a tubular piece to allow an operator to strip the tubular piece onto the other rod.

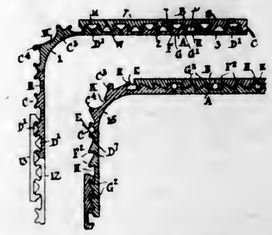
1,381,821. DRY COFFEE COMPOUND. JOSEPH GREENBERG, Philadelphia, Pa. Filed Apr. 12, 1920. Serial No. 373,377. 5 Claims. (Cl. 99—11.)

2. A dry coffee mixture comprising dry coffee extract, and dry milk having a fat content greatly reduced as compared with unmodified dry milk.

1,381,822. PREPARED DRY COFFEE-SUBSTITUTE COMPOUND. JOSEPH GREENBERG, Philadelphia, Pa. Filed May 18, 1920. Serial No. 382,268. 5 Claims. (Cl. 99—11.)

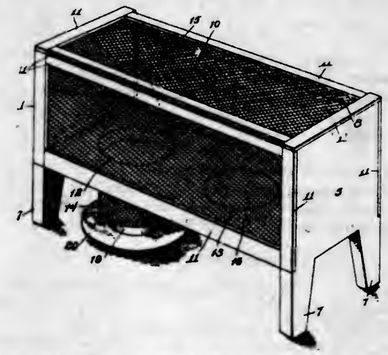
2. A dry coffee substitute mixture comprising an extract of parched vegetable ingredient imitative of the coffee flavor and milk having a fat content greatly reduced as compared with unmodified dry milk.

1,381,823. BUILDING COMPONENT. WALTER BURLEY GRIFFIN, Melbourne, Victoria, Australia. Filed Apr. 30, 1918. Serial No. 231,704. 2 Claims. (Cl. 72—38.)



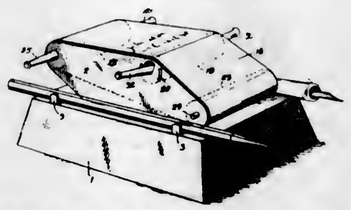
1. A wall structure made up of oppositely arranged plate-like sections, with each plate-like section formed on its inner face with spaced ribs, each rib being formed beyond the plate to provide two divergent portions, the divergent portions of adjacent ribs projecting toward each other to form the space intermediate the ribs as a complement of the rib, so that in the coöperation of the sections, the rib of one section accurately fits the space between the ribs of the other section, the divergent portions of each rib providing a space between such rib and the adjacent section when the sections are assembled.

1,381,824. FLYTRAP. WILLARD LESLIE HALL, Howard, Kans. Filed Aug. 26, 1919. Serial No. 319,972. 1 Claim. (Cl. 43—118.)



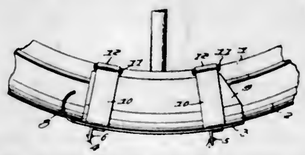
A fly trap of the class described comprising a cage of reticulated material and having its ends and bottom constructed of wood, legs provided at the corners thereof, longitudinal strips connecting said ends, said bottom having an opening and a reticulated cylinder secured in said opening and projecting above and below the bottom, a reticulated conical member connected with the cylinder and projecting into the cage and having its reduced end provided with an opening and disposed below the top of the cage.

1,381,825. DESK FURNITURE. WILLIAM P. HANLON, New York, N. Y., assignor of one-half to Arthur A. Camerer, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,853. 1 Claim. (Cl. 281—13.)



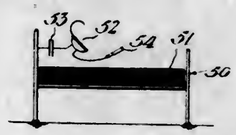
A device of the character described comprising a base formed of sheet metal and having a plurality of elongated apertures formed therein, a removable member stamped from a single sheet of metal formed with a flat top section and a flat end section and a pair of side sections formed with hooks interlocking with said base and extending through said elongated openings, a plurality of rollers mounted on said removable member and a belt mounted on said rollers and positioned exteriorly of said top section and said end section so that when writing on the belt it will be pressed against one of said sections.

1,381,826. AUTO-WHEEL SHOE. ANTON G. HANSEN, Boelus, Nebr. Filed Oct. 22, 1918. Serial No. 259,186. 1 Claim. (Cl. 152—14.)



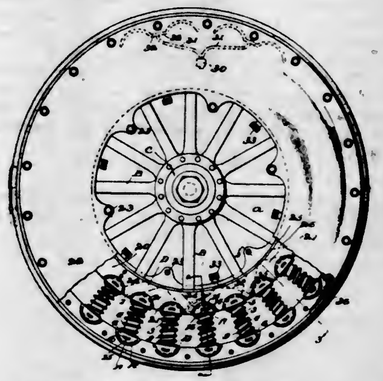
A shoe of the character described comprising a pair of longitudinal plate elements having traction lugs on one face, means swingingly connecting the plate elements together at one longitudinal edge, each plate being formed with a lateral flange portion on the edge at which it connects with the other plate, the flange portion being formed with a pair of spaced strengthening plates which connect with the first said plate adjacent the edge opposite the flange, and means for attaching the device on an auto vehicle tire at a specified point to shroud the tire at that point for the purpose herein specified.

1,381,827. WIRELESS PHONOGRAPH FOR HOSPITALS. EARL C. HANSON, Los Angeles, Calif., assignor to Title Insurance and Trust Company, a Corporation of California. Filed June 3, 1918. Serial No. 238,045. 4 Claims. (Cl. 179—82.)



3. A receiving system for electrostatic energy comprising a telephone receiver, a connection from said telephone receiver to a capacity means and another connection from said telephone receiver to the human body whereby said body serves as a collector of electrostatic energy.

1,381,828. VEHICLE-WHEEL. JACOB G. HARTMAN, Baltimore, Md. Filed Mar. 8, 1919. Serial No. 281,470. 3 Claims. (Cl. 152—37.)



1. A vehicle wheel including spaced apart inner and outer rims, each of said rims having a series of semi-cylindrical concaved seats on the face opposed to the other rim, expansible spacing spokes between said inner and outer rims, the ends of said spacing spokes being semi-cylindrical respectively seated within the concavities of said rims and having a freely movable guided engagement therewith, said spokes having no fixed pivotal connection with said rims in combination with a driving connection between said inner and outer rims.

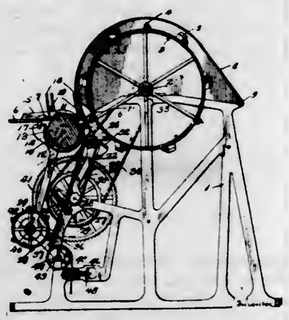
1,381,829. NOSTRIL-CLEANING DEVICE. ROBERT R. HARTMAN, Chicago, Ill. Filed June 21, 1916. Serial No. 104,890. 5 Claims. (Cl. 128—357.)



2. A nostril cleaner comprising a handle, a holding piece connected with said handle, adapted to be inserted

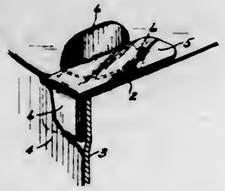
in the nostril, a removable cleaner piece connected with said holding piece shaped to conform to the cavity of the nostril, and a limiting device for limiting the distance the cleaner can be inserted in the nostril.

1,381,830. MACHINE FOR PULPING PLANTS CONTAINING TEXTILE FIBERS. ANDRÉ HAUSER, La Chaux-de-Fonds, Switzerland. Filed June 12, 1919. Serial No. 303,730. 8 Claims. (Cl. 13—18.)



1. A machine of the character described including a supporting frame, a table having a protected extension, a scraping drum rotatably mounted on the frame and coacting with the extension, means for feeding plants between the drum and the table, coacting crushing rollers rotatably mounted in the frame, conveying means between the scraping drum and the crushing rollers, a secondary table beneath the rollers, a protecting strip on the lower portion of the table, a secondary scraping drum for coacting with the strip on the table, a rotatably mounted conveying drum for receiving material from the secondary drum and squeezing rollers rotatably mounted in the frame between which material is passed from the conveying drum.

1,381,831. SNUFF-BOX OPENER. BENJIMAN HEBBEN, Minneapolis, Minn. Filed Mar. 31, 1920. Serial No. 370,069. 1 Claim. (Cl. 229—51.)



The combination with a box or can and a flanged cover therefor, of a cutter slidably interlocked to the flange of said cover and adapted to be moved thereon, the said box or can having a paper wrapper that is normally stuck to the body thereof and to the rim of said cover, the said cutter comprising a U-shaped blade that embraces the flange of said cover and a body plate that rests on the top of said cover, the said body portion having a flange adapted to be bent down against the same or to be turned upward for use.

1,381,832. RUG. EMANUEL HEIDENHEIM, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,302. 1 Claim. (Cl. 28—25.)

The method of manufacturing rugs which consists of forming a strand of two parallel cords of material, two strands of material of different color braided around and through said parallel cords in such a manner that the color of one of said strands predominates on one side of the finished product and the other color predominates

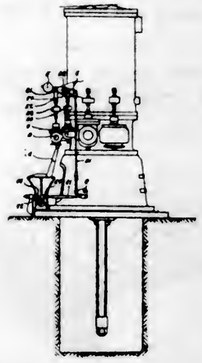


upon the opposite side of said finished product, and subsequently wrapping said strand to form the rug, said strand being twisted at different points to form areas of different colors throughout the finished product.

1,381,833. PRESERVED MALT PREPARATION. BRUNO A. HOEHL, Wheeling, W. Va. Filed Apr. 3, 1920. Serial No. 371,110. 2 Claims. (Cl. 99—8.)

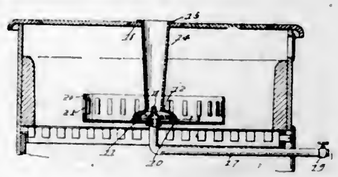
1. As a new product, a stable mixture comprising hops and malt and a syrup of saccharine liquid.

1,381,834. CONTROLLING-GEAR FOR HYDRAULIC PRESSES. THOMAS EDMUND HOLMES, Glasgow, Scotland. Filed Sept. 19, 1919. Serial No. 324,989. 4 Claims. (Cl. 138—16.)



1. A lifting cylinder control mechanism for hydraulic presses, comprising a normally open steam inlet valve, a normally closed steam exhaust valve, a hand lever and lost-motion devices operatively connecting the lever to the said steam valves to close the inlet valve and open the exhaust valve at one end of the lever stroke, and, at the other end of the lever stroke, to open the inlet valve and close the exhaust valve.

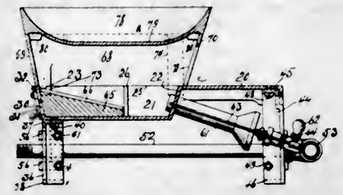
1,381,835. CRUDE-OIL BURNER. WATSON W. HOLMES, Austin, Tex. Filed Sept. 25, 1919. Serial No. 326,143. 2 Claims. (Cl. 158—91.)



1. A burner having a burner plate and a fuel supply jet for depositing fuel thereon, an arched burner cap

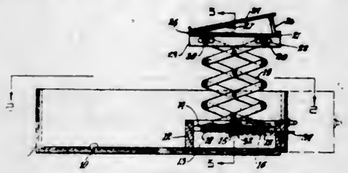
spanning the burner plate around the jet outlet and provided in its wall with burner openings, a down draft conductor communicating with the burner cap in an area surrounding said jet outlet, and a heat concentrating basket surrounding the burner cap and the adjacent portion of said conductor and having perforated upstanding walls.

1,381,836. AUTOMATIC BLAST SOLDERING-FURNACE. CHARLES A. HONES, Rosedale, N. Y. Filed Feb. 10, 1920. Serial No. 357,545. 8 Claims. (Cl. 263—9.)



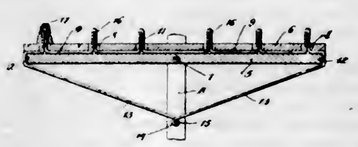
1. In a furnace the combination of a table having a well formed therewith, legs for the table and well, gas supply piping for the furnace, detachable brackets connected to a pair of said legs supporting said piping, a Bunsen burner connected to the gas supply piping and extending into the well and a pilot light for the burner.

1,381,837. TABLE. FREDERICK HOPAIDASZKA, Cobalt, Ontario, Canada. Filed May 5, 1920. Serial No. 379,018. 2 Claims. (Cl. 45—111.)



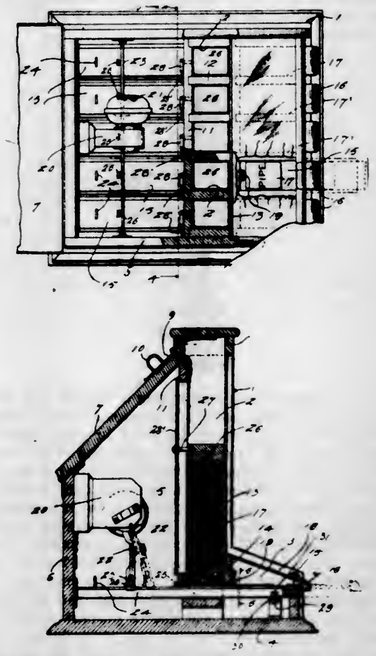
1. A table of the class specified, comprising a pair of horizontally telescoping box elements, a base block in one of said box elements, said base block having a horizontal slot extending therethrough from side to side and having vertical apertures intersecting said slots, a pair of rods movable transversely of themselves in the said apertures and having their ends projecting beyond the said block, lazy-tong legs secured to the ends of said rods, a pair of rods connecting the upper ends of said legs, a table proper having slotted cleats through which said rods extend, a shaft extending through the said block and the walls of the said box element, flexible members secured at one end to said first mentioned rods and adapted to wind on said shaft, and expansion springs interposed between said rods and said shaft.

1,381,838. INSULATOR-SUPPORT. BERRY B. JACKSON, Mudlick, Ky. Filed Mar. 30, 1920. Serial No. 370,052. 2 Claims. (Cl. 173—321.)



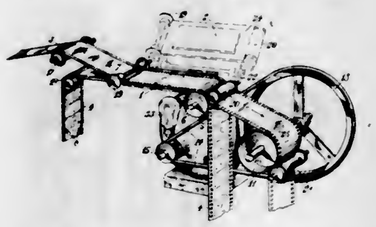
1. An insulator support of the character described, comprising a pair of bars, one superimposed relative to the other, and provided with apertures, a reinforcing member interposed between the bars and having projections extended through apertures in the uppermost bar and provided with means for the fastening of insulator members thereon, and end portions extending from the reinforcing member and inclined toward each other and provided with securing means at their ends.

1,381,839. TICKET-VENDING MACHINE. EDMOND A. JACKSON, Asheville, N. C. Filed May 6, 1919. Serial No. 295,126. 1 Claim. (Cl. 211—8.)



A ticket vending machine including a casing, storage and examining compartments in said casing and said examining compartment having an exit in its front wall, a slide extending through said compartments and normally having its forward end terminating in said exit, a finger grip secured to the forward end of the slide and normally closing the exit, said slide having a notch therein, a rod journaled in said casing, a lug carried by said rod and adapted to move into and out of the notch on rotation of said rod, and a lock for said rod to hold the lug in said notch.

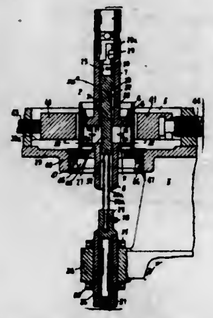
1,381,840. CINEMATOGRAPH-FILM-FEEDING APPARATUS. WILLIAM CECIL JEAPES, London, England. Filed Mar. 30, 1920. Serial No. 369,885. 7 Claims. (Cl. 95—75.)



1. In cinematographic apparatus, mechanism for simultaneously feeding two superimposed cinematograph films having feed perforations therein, through feeding apparatus, and for driving one film from the other, comprising

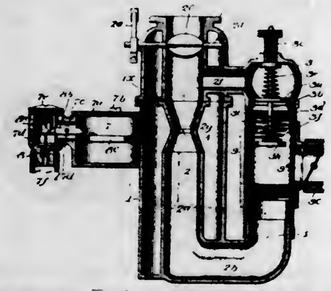
an intermediary member which engages the feed perforations in both films and is driven by one film and transmits such drive to the other film, and means for imparting a pull to the first said film in advance of the said intermediary member.

1,381,841. COLLAPSIBLE TAP. HARRY M. JOHNSTON, McKeesport, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 29, 1920. Serial No. 369,694. 12 Claims. (Cl. 10—144.)



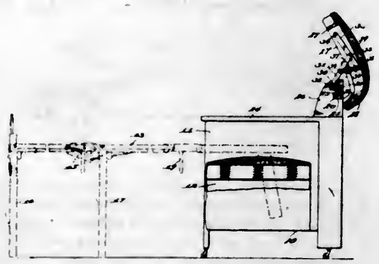
12. A collapsible tap comprising a hollow and radially slotted head having collapsible thread cutting chasers, said chasers being slidably mounted in said radial slots, a tubular stem on one end of said head with the bore thereof in axial alinement with said hollow head, a slot in the wall of said stem, a fluted star cam slidably and rotatably mounted in said tubular stem and hollow tap head, said cam having taper surfaces between the flutes thereof engaging with the chasers, an adjustable stop for holding said cam against lengthwise movement during the thread cutting operations, a pin on one end of said cam extending into the elongated slot and arranged to engage the side walls of the slot to prevent relative axial turning movement of the cam and stem during relative lengthwise movement thereof, said elongated slot having an offset in one end arranged to receive the pin in said cam and permit a limited relative rotative movement between said fluted cam and said stem, to thereby bring said flutes opposite the ends of said radial chasers and permit radial inward movement of the chasers into collapsed position, and a sleeve on said stem for locking said pin to prevent rotative movement between the cam and stem when opposite the offset in said slot.

1,381,842. CARBURETER. GEORGE D. JORDAN, Chevy Chase, D. C., assignor, by direct and mesne assignments, to Jordan Carburetor Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 10, 1913, Serial No. 794,448. Renewed June 27, 1918. Serial No. 242,312. 15 Claims. (Cl. 261—12.)



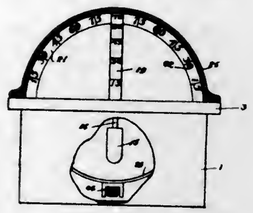
13. In a carbureter the combination of a casing having an interior air passage surrounded by a heating chamber or passage for exhaust gases, a fuel inlet to said passage, a valve controlling said inlet, a fuel heater within the said heating chamber and beside the air passage and communicating with said fuel inlet and with a fuel supply, and means for electrically heating said heater independently of the heat in the chamber; with an auxiliary air valve chamber communicating with the said air passage, and a hot air supply communicating with said auxiliary air valve and with the said passage.

1,381,843. BED-DAVENPORT. THOMAS F. KELLY, Clinton, Iowa, assignor of one-half to Joseph A. Kelly, Clinton, Iowa. Filed Oct. 15, 1920. Serial No. 417,114. 3 Claims. (Cl. 5—47.)



1. In a davenport-bed, a frame having end members and a fixed cushion, a movable back portion, standards rising above said end members, a cross-piece connecting said standards, an angle plate secured to said cross-piece, a metallic plate fastened to said back portion, an arm pivotally connected at each end to said plate, a slotted link pivotally connected to said metallic plate and a pin secured to said arm engaging in the slot of said link.

1,381,844. LEVEL. JOSEPH KIDD, Winnipeg, Manitoba, Canada. Filed July 17, 1918. Serial No. 245,381. 3 Claims. (Cl. 33—215.)

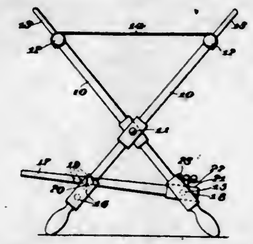


1. In combination, a support providing a stationary outer ring, an intermediate ring pivoted to the outer ring at diametrically opposite points, an inner ring pivotally connected to the intermediate ring and with the pivot points located 90 degrees from the connections between the intermediate ring and the outer ring and a pointer located centrally of the inner ring and mounted on a pivot spindle located at right angles to the pivot suspension of the inner ring, the pointer being threadedly engaged with the spindle and adjustable longitudinally thereof.

1,381,845. CONVERTIBLE CANE AND STOOL. USHIA KOLCHINSKY, Philadelphia, Pa. Filed Oct. 16, 1920. Serial No. 417,349. 1 Claim. (Cl. 155—136.)

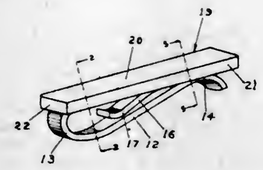
A convertible cane and stool comprising a plurality of uprights pivotally connected in pairs, bars connecting the upper ends of said pairs of uprights, handles on said bars, a flexible sheet having its ends secured to said bars, a cross piece connecting one pair of the uprights near their lower ends, a pair of cross pieces connecting the other pair of uprights near their lower ends, an elongated stick member pivotally mounted upon said single cross piece,

a wing screw carried by the pivoted end of said stick member, means for connecting said stick member with the upper of said pair of cross pieces whereby to hold the device in extended position, said pairs of uprights being foldable upon their pivots whereby to lie substantially



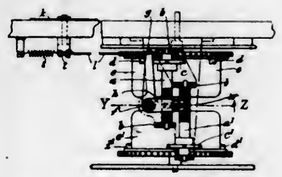
together with said stick member extending downwardly substantially in alinement with the folded uprights, one side of said stick member lying against said pair of cross pieces, and said wing screw being adapted to be passed between said pair of cross pieces and turned whereby to engage against them.

1,381,846. TIE-CLIP. FRED S. MAKER, Seekonk, Mass., and RALPH K. MAKER, Providence, R. I. Filed Jan. 27, 1921. Serial No. 440,503. 6 Claims. (Cl. 24—259.)



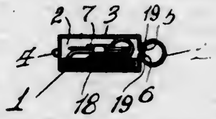
1. A tie clip provided with a base portion, a tongue having its free end arranged in proximity to said base portion, and a second tongue forced down from the base portion into a position opposed to the said first named tongue whereby the said tongues resiliently engage material interposed therebetween.

1,381,847. POWER-INDICATOR FOR SPRING-MOTORS. FOSTER RITCHIE, Ealing, England. Filed Jan. 10, 1921. Serial No. 436,080½. 4 Claims. (Cl. 185—44.)



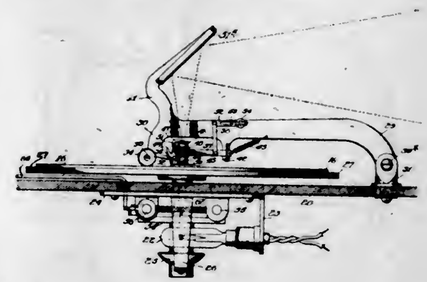
4. A power indicator for spring motors comprising in combination, a toothed wheel having an axial journal, a pair of screw threaded members, each member having a thread in mesh with teeth of the said toothed wheel, a star wheel fixed on each of said members and having teeth arranged for engagement by detachable clip projections securing on a rotating part of the said spring motor, a bell-crank lever having one arm slotted lengthwise for receiving the said axial journal and having its other end pierced for connection to a link, a pointer pivoted between its ends, a graduated scale parallel to the path of said pointer, a link for connecting that arm of the pointer opposite its indicating end to the pierced end of said bell crank lever and means for supporting the parts of the device, substantially as described for the purposes specified.

1,381,848. SAFETY-RAZOR. WILLIAM E. ROSENBAUM, St. Louis, Mo. Filed Jan. 21, 1918. Serial No. 212,878. 4 Claims. (C 30—12.)



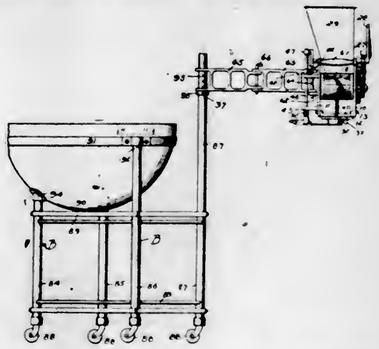
1. In combination, a receptacle, an article to be contained in said receptacle, and a member forming a combined fastener and handle for said receptacle and said article.

1,381,849. ART OF PRODUCING MOVING PICTURES. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed May 22, 1919. Serial No. 298,961. 28 Claims. (Cl. 88—18.8.)



5. In a moving picture machine, in combination, a continuously moving transparency containing a sequence of pictures and provided with engaging means in identical relation with the successive pictures of the sequence, a lens, and a lens support having means adapted to intermittently engage the engaging means on the transparency to cause movement of the lens.

1,381,850. DOUGHNUT-MACHINE. AUGUST SCHOEL, Waterloo, Iowa, assignor of three-tenths to George Schoel, Waterloo, Iowa. Filed Jan. 22, 1921. Serial No. 439,109. 14 Claims. (Cl. 107—14.)



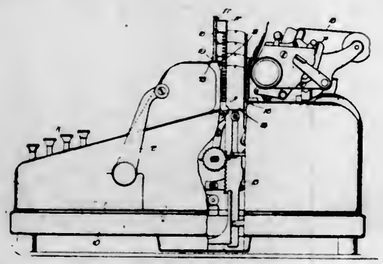
2. A doughnut forming and cutting machine having a crank thereon, a fender below said crank for preventing

heat from coming in contact with the arm of the operator and a cutoff device for preventing any dough from leaving the machine, said cutoff device having a handle thereon extended through the fender whereby it may be moved to open or closed position.

9. In a device of the class described, a portable frame, a vat removably mounted on said frame, a doughnut forming and cutting machine rotatably mounted on said frame, and means for varying the vertical position of said machine with relation to the frame, the parts being so arranged that the doughnut forming and cutting machine may be swung over said vat for filling said machine with dough and swung away from said vat when cutting doughnuts.

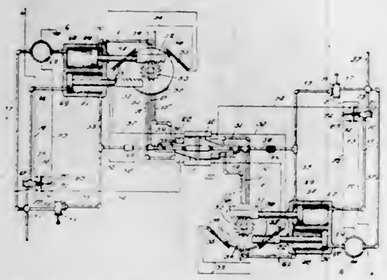
10. In a device of the class described, a portable frame, a vat mounted on said frame to one side thereof, a doughnut forming and cutting machine rotatably mounted on said frame, the parts being so arranged that the vat acts as a counter weight when the machine is swung away from the vat when cutting doughnuts.

1,381,851. CALCULATING-MACHINE. PHILIP N. SEA, Chicago, Ill. Filed Apr. 18, 1919. Serial No. 291,041. 2 Claims. (Cl. 235—58.)



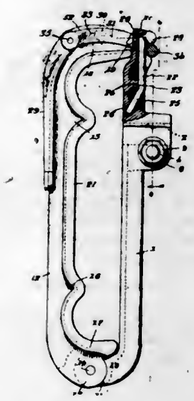
1. In combination with an adding machine of the Dalton or Sundstrand type of an information indicating attachment comprising pointers secured in a horizontal row on top of the machine type sectors, a supporting frame hinged on the machine in front of the path of said pointers, and a dial supported by said frame, said frame when swung into one position supporting said dial in front of said pointers, said dial having decimal rows of numerals 0 to 9 thereon with which said pointers coöperate during operation of the machine to indicate what the set-up is, said frame when swung to another position holding said dial away from in front of said pointers.

1,381,852. AUTOMATIC CAR AND ELECTRIC COUPLING AND REVERSING-SWITCH. CHARLES H. TOMLINSON, Mansfield, Ohio, assignor to The Tomlinson Coupler Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 7, 1916. Serial No. 102,163. 40 Claims. (Cl. 173—332.)



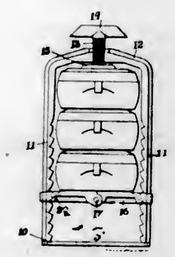
1. The combination with a car and electric couplers for a plurality of circuits, of a combined air and electric connector on each coupler, reversing switch mechanism in each car for the electric coupler circuits, and means in each car operable through said connector for controlling the said mechanism in both cars.

1,381,853. BOW REST AND CLAMPING DEVICE. HARRY B. WHITE, Canton, Ohio, assignor, by mesne assignments, to Auto Specialties Manufacturing Co., San Francisco, Calif., a Corporation of California. Filed Feb. 15, 1917. Serial No. 148,754. 9 Claims. (Cl. 296—128.)



1. A device of the character described, comprising a stock arranged to be attached to a vehicle body, a spring located near one extremity of said stock, an arm hinged to the other extremity of said stock, a clamping lever pivotally mounted upon the free end of said arm, a spacing member carried by the upper extremity of said arm and arranged to engage said stock and a link carried by said lever and arranged to engage the spring upon said stock, said lever and link arranged to draw said arm toward said stock to clamp the bows of a top therebetween.

1,381,854. FLASK-CLAMP. SAMUEL HOGG WILSON, Glasgow, Scotland. Filed Mar. 5, 1921. Serial No. 450,055. 11 Claims. (Cl. 18—33.)



1. A flask clamp comprising, in combination, side members, a bridge piece uniting same and an adjustable platform beneath said bridge piece.

1,381,855. LOCKING DEVICE. HOMER E. ASHCRAFT, Davenport, Iowa. Filed Jan. 10, 1920. Serial No. 350,676. 3 Claims. (Cl. 292—113.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A fastening device for boxes or the like having a handle plate, a pivot plate secured to one end of the box immediately below said handle plate, a loop pivoted to said handle plate, a cover, means extending from said loop for engaging the cover, an arm mounted on said pivot

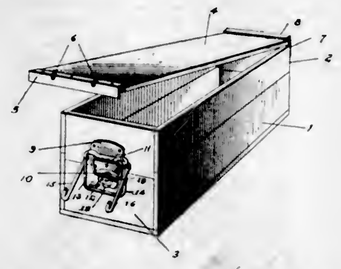
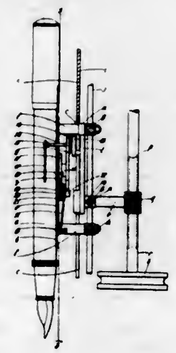


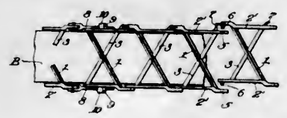
plate for holding the loop in locked position and means extending through said arm and pivot plate for securing the arm in locked position.

1,381,856. MECHANICALLY-OPERATED ADVERTISING DEVICE. ARCHER ASTON, Leeds, England, assignor to L. E. Waterman Company, New York, N. Y., a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,468. 6 Claims. (Cl. 35—16.)



1. A mechanically operated advertising device for the purposes set forth comprising a model mounted for vertical reciprocating movement, a lever thereon, means for raising and lowering said model and means for angularly displacing the lever on said model at predetermined points in the path of said reciprocating movement of the model, substantially as described.

1,381,857. TRACTOR-TREAD. ANDERS L. BERTHELSEN, Chicago, Ill., assignor to Henry Morton, Chicago, Ill. Filed Sept. 3, 1919. Serial No. 321,378. 11 Claims. (Cl. 301—40.)

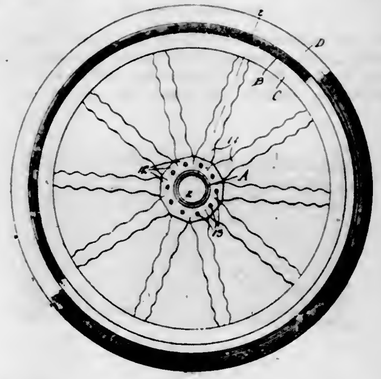


1. A tractor tread member or lug for vehicle wheels comprising spaced side members, a transversely arranged relatively heavy rigid rib joined at an acute angle to opposite ends of said side members, and means engageable with the edge of the wheel rim for holding the tread members against displacement.

1,381,858. FOOD PRODUCT. JESSE D. BOURDEAU, Detroit, Mich., and WILLIAM B. FINK, Washington, D. C., assignors to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 25, 1919, Serial No. 292,574. Renewed Aug. 9, 1920. Serial No. 402,298. 4 Claims. (Cl. 99—11.)

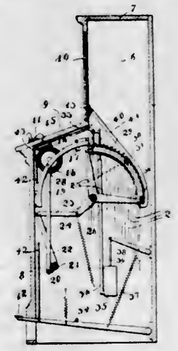
1. A process of treating cereal grains having carbohydrate constituents and oily constituents which render the grains subject to deterioration by the development of rancidity, which process comprises subjecting the grains to the action of an alkaline solution sufficient to combine with the free acid of the oily constituents, and in addition to form a loose chemical combination with the carbohydrate constituents whereby any free acid which is subsequently formed from the oily constituents is then neutralized by the alkali which is loosely combined with the carbohydrates.

1,381,859. VEHICLE-WHEEL. CHARLES S. CRAWFORD, Indianapolis, Ind., assignor to Premier Motor Corporation, Indianapolis, Ind., a Corporation of Delaware. Continuation of application Serial No. 285,178, filed Mar. 26, 1919. This application filed Sept. 2, 1920. Serial No. 407,616. 4 Claims. (Cl. 152—50.)



1. A wheel composed of a hub, a rim and spokes interposed between said hub and rim consisting of metal tubes corrugated circumferentially.

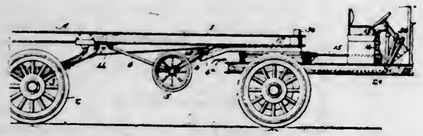
1,381,860. INFORMATION DEVICE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Feb. 16, 1921. Serial No. 445,534. 5 Claims. (Cl. 40—65.)



1. In an information device, a series of tables, a handle, a table carriage, means operative by the handle to move

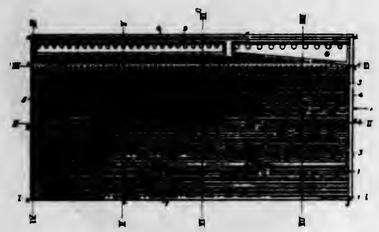
the carriage so as to bring one of the tables on the carriage to a selective position, means operating to move the selected table into view position away from the other tables, and means inside of the cabinet in view behind the glass front actuated by the movements of said handle to indicate which one of the tables is in selective position.

1,381,861. VEHICLE-TRAIN. MANSELL A. DAVIS, Lapeer, Mich. Filed Mar. 1, 1920. Serial No. 362,547. 9 Claims. (Cl. 280—33.1.)



1. The combination with a tractor, of a fifth wheel mounted on the rear end thereof and adapted for connection to a trailer, and means extending to a point adjacent the driver's seat for turning said fifth wheel about its axis.

1,381,862. ORE-CONCENTRATOR. EMIL DEISTER, Fort Wayne, Ind., assignor to Deister Machine Company, Fort Wayne, Ind., a Corporation. Filed June 23, 1919. Serial No. 305,977. 5 Claims. (Cl. 83—88.)

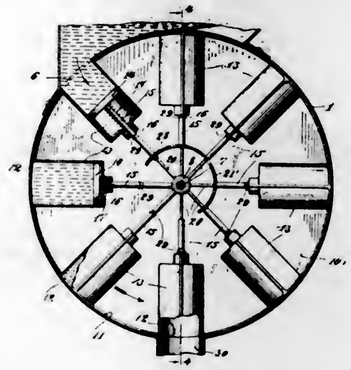


1. A differentially reciprocating concentrating table having riffles thereon and having a plurality of downwardly inclined coterminous sections on its surface, one section extending along the feed side of the table being both longitudinally and transversely inclined downwardly, a second section coterminous with the first section and extending from the head end of the table toward the mineral discharge end thereof being longitudinally and transversely inclined downwardly, the transverse inclination downward of said second section being greater than that of the first section, and a third section coterminous with both of the other two sections and extending along a portion of both the mineral discharge end and the tailings discharge side of the table, being longitudinally inclined downwardly from the second section to the mineral discharge end of the table and said longitudinal inclination downwardly being less than the longitudinal inclination downwardly of said second section, said third section also being transversely inclined downwardly from the first section to the tailings discharge side of the table, said transverse inclination downwardly of said third section being least at the mineral discharge end of the table and greatest at the juncture of said section and the second section.

1,381,863. PROCESS OF MAKING ARTIFICIAL RESINS. CARLETON ELLIS, Montclair, and HARRY M. WEBER, Bloomfield, N. J., assignors to Ellis-Foster Company, a Corporation of New Jersey. Filed Oct. 2, 1920. Serial No. 414,279. 5 Claims. (Cl. 134—26.)

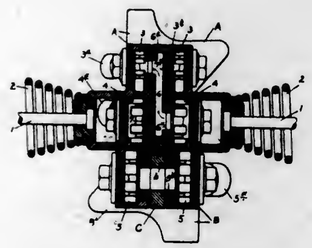
4. A resinous product comprising the reaction products of fusible copal resin, ordinary rosin and glycerin.

1,381,864. FILLING APPARATUS FOR LIQUID-FUEL TANKS AND THE LIKE. FRED EVANS, Summit, N. J., and JOSEPH CORCOS, New York, N. Y., assignors, by direct and mesne assignments, to International Gas Recorder Manufacturing Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 29, 1919. Serial No. 286,148. 6 Claims. (Cl. 221—107.)



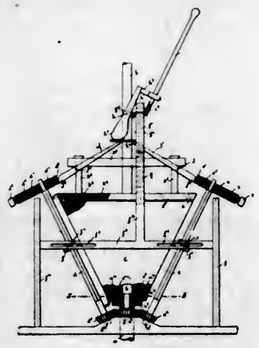
1. In apparatus of the class described, in combination, a casing, a funnel disposed above said casing and having a passageway leading thereinto, a rotatable cylinder located within said casing, provided with a plurality of measuring elements, each of which is adapted to register with said passageway during a rotation of said cylinder member, and means associated with each of said measuring elements operable upon rotation of the same for automatically locking said cylindrical member against rotation.

1,381,865. TRAIN-PIPE COUPLING. JOSEPH E. FORSYTH, Chicago, Ill. Filed June 21, 1920. Serial No. 390,574. 7 Claims. (Cl. 285—24.)



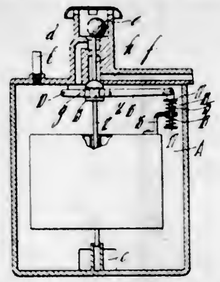
1. The combination with a pair of train-pipe coupling heads provided with a plurality of passages adapted to register in pairs, of an interposed plate provided with a conduit through which a passage of one coupling head communicates with a non-registering passage of the other coupling head.

1,381,866. PROGRESSIVE AND REVERSIBLE CHANGE-SPEED MECHANISM. NICOLAS GHERASSIMOFF, St. Germain en Laye, France. Filed Dec. 9, 1920. Serial No. 429,507. 10 Claims. (Cl. 74—26.)



1. A transmission mechanism comprising in combination a driving shaft, a driven shaft, a cone on said driven shaft, means actuated by said driving shaft to rotate said cone, and means actuated by said cone-rotating means to couple said driving and driven shafts directly to each other.

1,381,867. FUEL-FEEDING DEVICE FOR CARBURETERS. PIERRE P. GILLES, Chicago, Ill. Filed July 28, 1919. Serial No. 313,781. 3 Claims. (Cl. 158—36.)



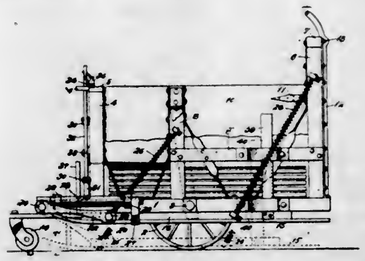
1. In a device of the class described, two valves each adapted to be held in closed position by suction, means to actuate the valves one from the other so that one is opened when the other is closed and the first is closed when the second is open, a float by the rise and fall of which the valves are to be operated, and means connecting the float to one valve; said means including a lever to increase the force exerted by the float, a spring through which the force from the float is transmitted to the last named valve on rising movement, and a second spring through which the force from the float is transmitted to the last named valve on falling movement.

1,381,868. STACK-FORMER. DAVID M. GRAHAM, Bordulac, N. D. Filed May 15, 1917, Serial No. 168,786. Renewed Sept. 7, 1920. Serial No. 408,778. 27 Claims. (Cl. 214—9.)

1. A stack former for harvesting machines having in combination, a frame and supporting ground wheels, a bottom which is swingably connected with said frame near the forward end of the bottom, links forming such swingable connection and adapted to swing toward the ground, springs supporting the rear end of said bottom, and releasable means for holding said bottom in elevated stack-receiving position.

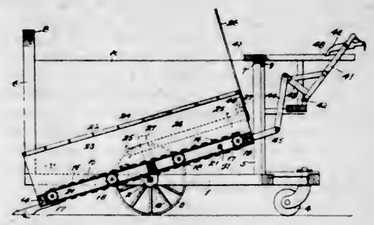
11. A stack former for harvesting machines, having therein a longitudinally collapsible stack-ventilating space-former.

13. A stack former for harvesting machines, having therein a rearwardly collapsible and resiliently returnable stack-ventilating space-former.



20. In a stack former for harvesters, the combination of a wheeled frame, stack-forming walls thereon, and a horizontal rigid bottom suspended on said frame and adapted for downward and upward movement as a unit for the deposit of the stack upon the ground without substantial displacement of the stack out of the forward and rearward limits of the stack-former and for return to stack-receiving position, said bottom being constructed with longitudinal rods permitting the engagement of the stack with the ground through the bottom.

1,381,869. STACK-FORMER. DAVID M. GRAHAM, Bordulac, N. D. Filed May 17, 1917, Serial No. 169,254. Renewed Sept. 10, 1920. Serial No. 409,498. 24 Claims. (Cl. 214—9.)



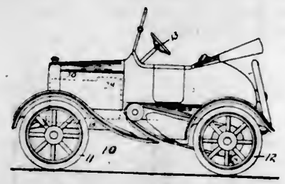
1. A stack former for harvesting machines having in combination, a tiltable bottom and ground wheels, a support on which said bottom is nearly balanced and is tiltable, means for confining and forming the lower part of the stack, means for forming a permanent ventilating space in said lower part of the stack, means for forming the upper and major part of the stack on the top of the space-forming means and confining and shaping the sides of the said upper part of the stack, means on said bottom for carrying the formed stack therefrom and away from said space-forming means, and mechanism for actuating such stack-carrying means.

19. A stack former for harvesters having in combination, a ground wheel support, a tiltable and nearly balanced bottom, a stack ventilating space former within the stack former, and means for positively forcing a formed stack out of the former while said bottom is tilted for the deposit of the stack.

21. A stack former for harvesting machines, having therein an inwardly collapsible stack-ventilating space-former.

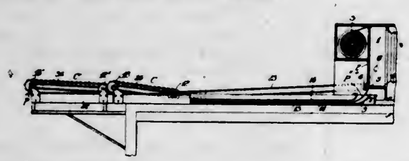
24. In a stack former for harvesters the combination of a wheeled frame, stack-forming walls thereon including side walls, a tiltable stack-sustaining bottom, the forward ends of which said side walls are removed to form side openings, and shields attached to said tilting bottom and arranged opposite to said openings to close the same against the escape of straw.

1,381,870. SPRING-MOTOR VEHICLE. BERTE C. GRAY, Sedgwick, Kans. Filed Dec. 16, 1919. Serial No. 345,340. 1 Claim. (Cl. 180—1.)



In a self propelled vehicle, a crank, a shaft operatable thereby, a coiled spring within a barrel case arranged on said shaft, the opposite ends of said spring connecting between said spring and barrel case whereby crank rotation operates to store up energy in said spring and means for holding said tension; a jack shaft carrying gears; teeth on the periphery of said barrel case engaging one of said jack shaft gears; a driving shaft carrying gears in mesh with the other gearing on the jack shaft; clutch shifting mechanism controlling the position of clutch mechanism as arranged upon said driving shaft and adapted to selectively engage said driving shaft to said specified gearing for forward or reverse motion; gears, shafting and belting in operative combination with said driving shaft and in driving engagement with the driving wheels of the vehicle for propelling purposes; a pedal, a plate slidably operated by the clutch shifting mechanism; said plate engaging said pedal when the clutch mechanism is in neutral and preventing pedal movement but disengaging from said pedal when and after clutch engagement has been effected to permit of pedal movement; brake members comprising plates mounted on a shaft having a spiral gear portion thereon in meshed engagement with a gear on the said jack shaft, said brake plates through spring pressure being normally held in brake contact and through the spiral gear in engagement with said jack shaft gear preventing the coiled spring from releasing its stored energy; said pedal connecting to said brake members so that after and during selected clutch engagement, pedal movements operate to release the brake engagement whereby the stored energy in said coiled spring operates as specified through the functioning elements to exert desired traction upon the driving wheels of the vehicle.

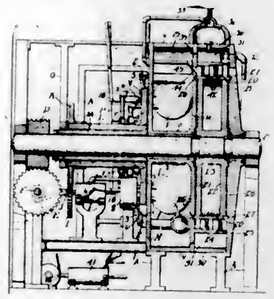
1,381,871. PHOTOGRAPHIC DEVELOPING APPARATUS. JOHN S. GREENE, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed June 17, 1919. Serial No. 304,789. 7 Claims. (Cl. 193—2.)



1. The combination with a supporting element having a surface over which photographic prints are adapted to slide, and driving gear, of a flexible conveyer operated by the latter to traverse the surface and composed of successive non-abrasive contact members adapted to frictionally engage the print.

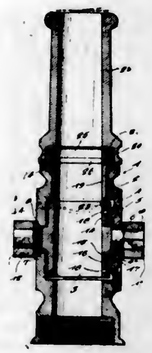
1,381,872. INTERNAL-COMBUSTION ROTARY ENGINE. ANNIBALE A. GUERINI, Middleboro, Mass. Filed Oct. 31, 1917. Serial No. 199,560. 4 Claims. (Cl. 60—42.)

1. In an internal combustion engine a rotor, a plurality of explosion chambers spaced concentrically about the rotor, a nozzle communicating with the explosion chambers and directed toward the rotor, a cylinder communicating with each chamber, a piston slidable in the cylinder, means to admit and discharge the scavenging air under pressure, a spring carried by the piston having sufficient tension to resist the pressure of scavenging air, a nozzle valve controlled by the piston and held normal



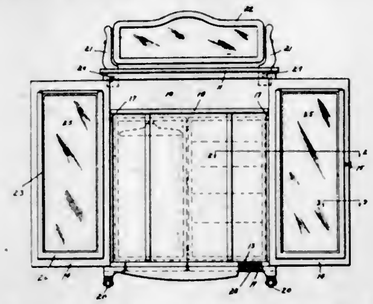
yieldingly closed, means to admit gas to the chamber, means to ignite the contained gas, the tension of the ignited gas actuating upon the piston to open the nozzle valve, and means carried by the rotor to actuate the scavenging valves, the gas admission valves and the igniter in timed relation and progressively for the several chambers.

1,381,873. NOZZLE. CLARENCE LEELAND HARDY, Dayton, Ohio, assignor to Maurice D. Larkin, Dayton, Ohio. Filed Oct. 30, 1919. Serial No. 334,435. 4 Claims. (Cl. 299—151.)



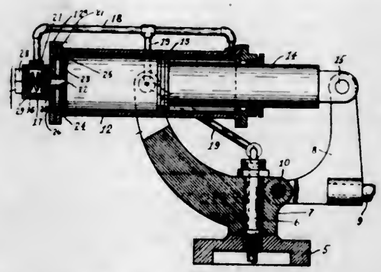
1. In a hose nozzle, a valve casing having a longitudinal bore extending therethrough, and intersected by a transverse cylindrical valve chamber which is open at one end, a removable cap closing this end of the chamber, the inner face of the cap being convex and there being a central bearing-opening formed therein, a rotary cylindrical valve in said chamber, said valve having a transverse opening for registration with the aforesaid bore and being provided in its end adjacent the cap with a recess, there being a journal extending from this recessed end through the bearing-opening in the cap and there also being a plurality of openings formed in this end of the valve which intersect said recess and permit passage of water therethrough, and a flexible packing ring surrounding said journal and seated in said recess, said ring being forced into tight contact with the convex face of the closing cap by the water which passes through the aforesaid openings and against it.

1,381,874. TRAVELING-SUITETTE. ANNA ROSALTHA HARPER, Ames, Iowa. Filed Mar. 25, 1921. Serial No. 455,667. 2 Claims. (Cl. 45—118.)



2. A device of the class described, having a back, sides, top and bottom members, said bottom, side and back members being provided with protecting strips, the device being adapted to receive a wardrobe trunk or the like, and having on its interior on its sides horizontal strips, a detachable shelf adapted to rest on said strips, a detachable bottom provided with rollers adapted to be removed and placed in said device, a detachable mirror adapted to be supported on said device at the top thereof or to be removed therefrom and placed on the interior of the device, hinged doors for said device, mirrors detachably mounted on the inner sides of the doors and adapted to be removed therefrom and placed on the interior of said device.

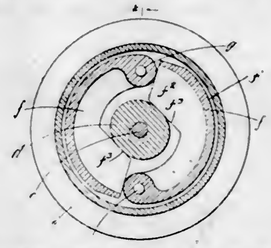
1,381,875. TROLLEY-RETRIEVER. GEORGE E. HARPHAM, Los Angeles, Calif. Filed May 16, 1918. Serial 234,940. 2 Claims. (Cl. 191—90.)



2. In a trolley retriever, a trolley pole; an air cylinder; a piston in said cylinder operatively connected to said pole and adapted to move the free end of the pole either upwardly or downwardly; a valve chamber at the rear end of said cylinder in communication with the interior of said cylinder through an opening in the rear head; a valve in said chamber adapted to control said communication; and means to operate said valve to open said communication when the trolley wheel accidentally leaves the feed wire when the car is running, whereby the wheel is brought below the span wires.

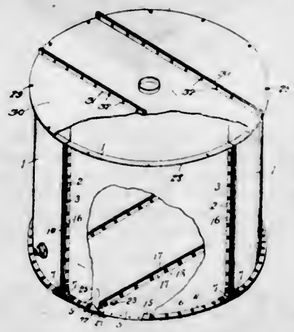
1,381,876. CLUTCH OR FREE-WHEEL MECHANISM. ALBERT CHARLES HAYWARD, Ashford, England. Filed Jan. 6, 1921. Serial No. 435,473. 2 Claims. (Cl. 192—43.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A two-way free wheel clutch for the wheels of motor vehicles comprising a member mounted directly on and adapted for free independent rotation with respect to the driving axle, frictional shoes pivotally supported at diametrically opposite points on said member, a drum carried by the wheel to be engaged by said shoes, the pivotal terminal of each shoe forming a limit for the non-clutch position of the other shoe, and a cam fixed



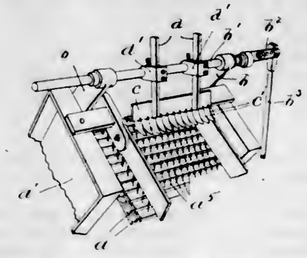
on the axle and coöperating with the shoes in a line substantially at a forty-five degree angle to their pivots to force the shoes into frictional engagement with the drum.

1,381,877. KNOCKDOWN TANK. PETER C. ICKES, Chanute, Kans., assignor of one-half to Edward T. Neyhard, Chanute, Kans. Filed May 12, 1919. Serial No. 296,462. 2 Claims. (Cl. 220—4.)



1. In a knockdown tank, a side section having at its lower end an outwardly extending peripheral flange, two bottom sections bolted to the under side of said flange, each having an upwardly extending flange bolted to the corresponding flange of the other bottom section, a sealing plate overlapping said upwardly extending flanges and overlapping and being bolted to said two bottom sections and said outwardly extending peripheral flange, and packing between the bottom sections and said peripheral flange, between the bottom sections and the sealing plate, and between said upwardly extending flanges.

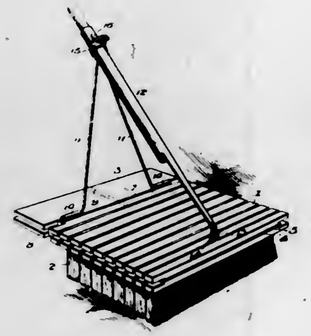
1,381,878. RAG-STOCK FEEDER. JULIAN S. JACOBS, Springfield, Vt., assignor to John T. Slack Corporation, Springfield, Vt., a Corporation of Vermont. Filed Oct. 20, 1919. Serial No. 332,053. 8 Claims. (Cl. 19—9.)



4. A comb for distributing rag-stock or the like over the apron of a rag-stock feeding machine embracing a

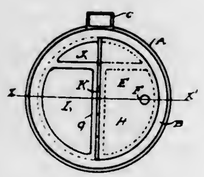
transverse blade-bar, a series of flat thin edge blades secured directly to said bar in position to present thin cutting edges to the approaching rag-stock, and means for suspending said bar to permit oscillation of the comb in proximity to the surface of the apron, substantially as described.

1,381,879. MOP. CHRISTOPHER JUSKA, Rochester, Minn. Filed Aug. 12, 1919. Serial No. 316,963. 4 Claims. (Cl. 15—13.)



1. A mop composed of a plurality of slats or strips, and an end piece, said parts having grooved ends, and the outermost slat a grooved side, a bail extending through said grooves and having threaded ends, rags held between the slats, and means screwed on the threaded ends for holding the rags securely between the slats.

1,381,880. ASH-RECEIVING DEVICE. CARL KRAFT, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,084. 2 Claims. (Cl. 131—51.)



1. In an ash receiving device, a well, so situated and divided into compartments that a cover, suitably hinged, may be made to cover one compartment completely at any one time, thereby providing a means to cut off oxygen supply to the covered compartment and hence extinguish any combustion in said covered compartment, at the same time leaving the other uncovered compartment or compartments in a condition ready to receive the ashes.

1,381,881. DATE-INDICATOR. GEORGE P. LELY, Parkstone Heights, England. Filed Apr. 29, 1919. Serial No. 293,475. 4 Claims. (Cl. 40—109.)

4. A date indicator comprising a support provided with independent and relatively fixed non-adjustable numerical scale and diurnal scale in combination with pointers cooperating respectively with said scales and adapted for adjustment with relation to one another to initially register the respective pointers with a particular number and a particular day, and provide for the maintenance of



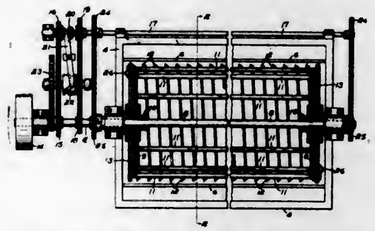
this adjusted relation of the pointers throughout a predetermined use of the date indicator.

1,381,882. ELECTROLYTIC APPARATUS AND PROCESS. MATTHEW M. MERRITT, South Middleton, Mass., assignor to Copper Products Company, Boston, Mass., a Corporation of Maine. Filed Nov. 2, 1917. Serial No. 199,812. 3 Claims. (Cl. 204—8.)



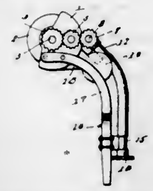
1. The process of electrolytically depositing metal of uniform thickness, which comprises revolving a cylindrical cathode drum, while partially immersed in an electrolyte, and while passing an electric current through a mass of relatively small pieces of metal immersed in the electrolyte as an anode, and while maintaining the general surface of the anode in a position substantially equidistant in radial plane from the surface of the cathode drum.

1,381,883. ELECTROLYTIC PROCESS, PRODUCT, AND APPARATUS. MATTHEW M. MERRITT, South Middleton, Mass., assignor to Copper Products Company, Boston, Mass., a Corporation of Maine. Filed Aug. 2, 1918. Serial No. 247,962. 4 Claims. (Cl. 204—11.)



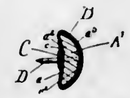
1. Electrolytic apparatus for use in depositing metal on a flexible cathode comprising, in combination, a reel on which a flexible cathode may be wound, said reel providing means to which the ends of said cathode may be secured, and bars for supporting the intermediate portion of said cathode and differential speed driving means for driving said bars and said means to which the ends of said cathode may be secured at different rates, thereby to vary the points of contact of said flexible cathode on said bars.

1,381,884. WINDOW-CLEANING DEVICE. JOHN J. PETERSON, Steubenville, Ohio. Original application filed Oct. 17, 1919, Serial No. 331,350. Divided and this application filed Feb. 9, 1920. Serial No. 357,114. 1 Claim. (Cl. 15—59.)



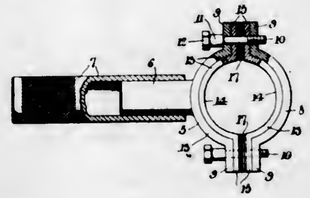
In a device of the character described, a semi-cylindrical casing provided with a rearwardly projecting throat member, a dust receiving casing supported by the throat member and in direct communication therewith, said dust receiving casing being provided with an air outlet, a roller rotatably mounted in the casing axially thereof, and a baffle projecting from the upper wall of the forward end of said throat member to within a short distance of the periphery of the roller.

1,381,885. COVERED FINISHING-MOLDING. HOWARD D. RANDALL, Cincinnati, Ohio, assignor to The J. D. Randall Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 23, 1920. Serial No. 368,064. 4 Claims. (Cl. 155—184.)



1. As a new article of manufacture a molding comprising a central metallic strip, a covering for the strip, and staples passing through the edges of the covering and upset against the metallic strip.

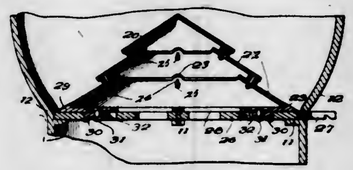
1,381,886. ADJUSTABLE HAND-TOOL FOR FILING ROUND SURFACES. DREW D. ROBERTS, Perry, Fla. Filed Jan. 20, 1921. Serial No. 438,709. 1 Claim. (Cl. 29—80.)



In a device of the character described, a pair of separable circular clamping members having lateral flanges, a pair of circular file plates having like flanges and fitting within the clamping members, a plurality of adjusting shims between the flanges of the plates, a handle member projecting centrally from one of said clamping members, and screw bolts extending through all of said flanges and through the shims.

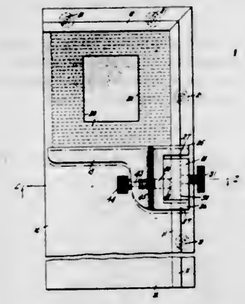
1,381,887. LIGNITE-GRATE. ADALBERT A. RUMBEICH, Pisek, N. D. Filed Oct. 9, 1918. Serial No. 257,451. 3 Claims. (Cl. 126—163.)

3. In combination with the usual stove grate, a base supported thereon and consisting of a plurality of radial arms, said arms having shoulders near their free ends, a supplemental grate composed of hollow frusto-conical sections adjustably held together with air spaces there-



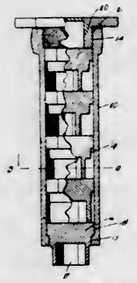
between and a top conical section, the lowermost section resting on said base and held in a central position by said shoulders.

1,381,888. COMPOSING-STICK. CHARLES BLUE WRIGHT, Jersey City, N. J., assignor of one-half to Edward G. Nelson, New York, N. Y. Filed Aug. 16, 1920. Serial No. 403,699. 6 Claims. (Cl. 276—39.)



4. A composing stick comprising a body having a fixed end wall, a fixed side wall and knee slidable on the side wall, and a setting member slidable on the side wall and adapted to be fastened thereto, the said knee having a limited sliding movement relative to the said setting member to allow of opening the stick without disturbing the set thereof, and a locking means adapted to lock the knee to the setting member when in set position and to allow of unlocking and opening the knee relative to the setting member.

1,381,889. COMBINATION-WRENCH. EDWIN M. ARNOLD, Tulsa, Okla. Filed Jan. 25, 1921. Serial No. 439,854. 6 Claims. (Cl. 81—73.)



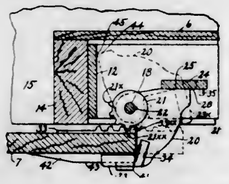
6. A wrench comprising a handle having a container, a series of detachable wrench members for said container, and means for locking any one of said wrench members in operative position only when all of said wrench members are in position in said container.

1,381,890. VALVE-PULLER. ROY W. BROUHARD and WILLIAM H. DONALDSON, Colo, Iowa. Filed July 6, 1920. Serial No. 394,314. 4 Claims. (Cl. 29—86.3.)



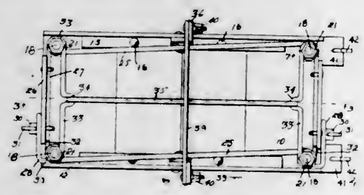
1. A tool of the kind described having a shank, a head on said shank, divergent resilient arms on said shank, terminating in inwardly inclined fingers, and a hammer member slidably mounted on said shank.

1,381,891. SLIDING-DOOR FASTENER. WILLIAM H. BURNS, St. Paul, Minn. Filed Nov. 30, 1920. Serial No. 427,420. 8 Claims. (Cl. 292—199.)



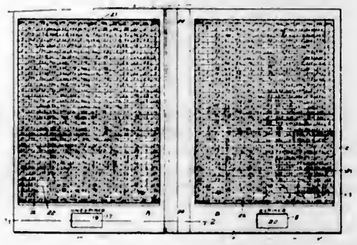
1. The combination with a car and the sliding door of same, of a metal frame secured on the side of the car near the door opening, an arm pivoted in the frame and arranged to engage the rear edge of the door to resist opening of it, means on the door for automatically bringing the arm to the resisting position during the closing of the door, and an automatically moving locking member engaging the arm to hold it firmly in the resisting relation to the door.

1,381,892. KNOCKDOWN HOG-CRATE. WILLIAM E. BUTE, Stanhope, Iowa. Filed July 8, 1919. Serial No. 309,393. 3 Claims. (Cl. 119—20.)



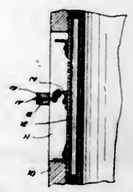
1. In a knock-down crate, a wheel mounted base comprising laterally spaced, longitudinally arranged, angle irons, caster wheels for supporting said angle irons, a floor resting on said angle irons, upright posts detachably mounted on said angle irons, side frame members on opposite sides of the crate, pivotally supported on said posts, doors pivotally supported on the posts at each end of the crate, cross members pivoted to the upright posts at each end of the crate, a central longitudinal member, pivoted at its ends to the respective cross members.

1,381,893. INTEREST-COMPUTING TIME-TABLE. TORKEL O. HEGGEN, Fort Dodge, Iowa. Filed July 8, 1919. Serial No. 309,395. 1 Claim. (Cl. 283—1.)



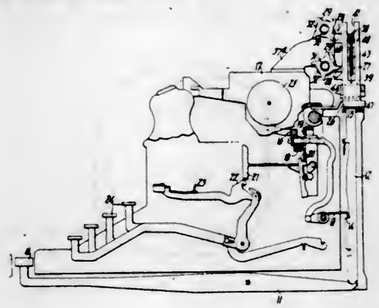
An interest computing time table, comprising two adjacent sets of indicating characters, one, being provided with columns indicating the months of the year and with lines at right angles thereto indicating the days of the month and with numerals arranged between said columns and lines for indicating the number of expired days in the year for any given month or day of the year, the other being similarly provided with columns for indicating the months and lines for indicating the days and also being provided with figures indicating the number of unexpired days in a year for any given date, substantially as set forth, and a device adjacent to each of said sets of indicating characters capable of receiving pencil marks and also capable of having said marks erased without deterioration of said member, with the word "Expired" printed adjacent to one of said devices and the word "Unexpired" adjacent to the other for the purposes stated.

1,381,894. SILO STRUCTURE. FREDERICK A. STAFFORD, Chariton, Iowa. Filed Mar. 18, 1919. Serial No. 283,410. 1 Claim. (Cl. 20—14.)



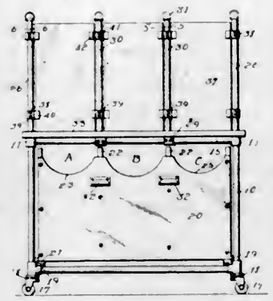
In a device of the class described, the combination of a circular structure having a door opening therein, a door member for said opening comprising a sheet of somewhat resilient metal curved from side to side to conform to the curvature of the structure and overlapping the wall of the structure at the sides and top and bottom of the opening, transverse brace members on the outer surface of said door member near the top and bottom thereof, terminating short of the side edges of said door member, and adapted to engage the wall of the opening for properly positioning the door member with relation to said opening, a central transverse, reinforcing angle member on the outer surface of said door member, a second angle member secured to said first angle member, a cross bar designed to overlap the door opening on the opposite side thereof from the door member, a bolt mounted in said second angle member extending through said cross bar, and a nut for said bolt.

1,381,895. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1918. Serial No. 217,873. 5 Claims. (Cl. 197—179.)



1. In a typewriter, in combination, a carriage, a support therefor, a tabulating mechanism comprising a tabulator-stop mounted at the rear of said support and an attachment mounted on said carriage so as not to extend to the rear of the typewriter frame, said attachment comprising a set of column-stops so mounted as to be movable with the carriage over said tabulator-stop, each of said column-stops being slidable vertically from a normal ineffective position to a set position in which it may cooperate with said tabulator-stop to arrest said carriage, and a selective stop-setting device capable of effecting a setting of a plurality of stops of said set at a single operation, and also capable of effecting a plurality of different settings of stops of said set at a plurality of successive operations.

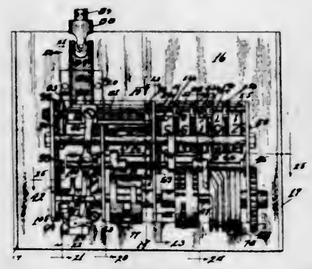
1,381,896. PORTABLE LAUNDRY-SEGREGATING BIN. RICHARD H. TYNER, Cincinnati, Ohio. Filed Jan. 24, 1920. Serial No. 353,898. 4 Claims. (Cl. 211—36.)



1. In a device of the class described, a frame comprising upright corner members, means for connecting said corner members near their lower ends, means for connecting said corner members near their upper ends, opposite supporting guides mounted on the lower portion of said frame members, a receptacle supported on said guides, upright members at the corners of said device at the upper end of said first named corner members, a platform supported on said frame above said receptacle, upright members capable of adjustment to a variety of positions, said platform being provided with slots to receive said last named upright members, and partition members for connecting the opposite adjustable members.

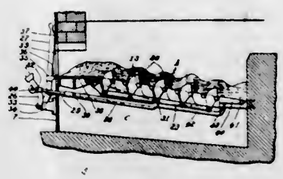
REISSUES.

15,123. COIN AND TICKET FARE REGISTER. JAY M. JOHNSON, Chicago, Ill., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill., a Corporation of New York. Filed Feb. 7, 1920. Serial No. 357,018. Original No. 1,310,833, dated July 22, 1919, Serial No. 872,919, filed Nov. 19, 1914. 31 Claims. (Cl. 235—32.)



1. In a machine of the class described a register, a mechanism for operating the same set in initial motion by contact of coins, a carrying element for coins having pockets therein and means permitting the coins dropping deeper into the pockets prior to the coins contacting a part of the operating mechanism.

15,124. FURNACE-GRATE. CHARLES J. HUBER, Baltimore, Md., assignor to Huber Grate Bar & Stoking Company, Baltimore, Md., a Corporation of Delaware. Filed June 11, 1919. Serial No. 303,526. Original No. 1,232,687, dated July 10, 1917, Serial No. 75,503, filed Feb. 1, 1916. 12 Claims. (Cl. 110—39.)

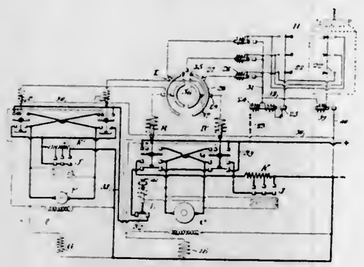


10. A hand stoker consisting of transversely-extending grate sections in downwardly inclined series from front to rear, the sections being pivoted near their rear portions and having arcuate front portions concentric with the pivot, means connecting the alternate grate sections in separate sets, and manually controlled means for swinging the sections of each set independently of the other set about their respective pivots, the grate sections swinging upward and backward into position substantially at right angles to the grate, and a separately actuated drop bar at the rear.

15,125. ELEVATOR. DAVID L. LINDQUIST, Yonkers, N. Y., and FREDERICK HYMANS, Glen Ridge, N. J., assignors to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 30, 1920. Serial No. 420,840½. Original No. 1,283,827, dated Nov. 5, 1918, Serial No. 64,396, filed Dec. 1, 1915. 15 Claims. (Cl. 172—152.)

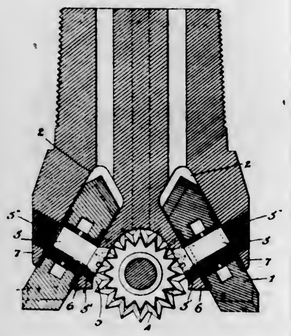
10. In an elevator, the combination of an electric hoisting motor adapted to drive the car at normal full speed,

an additional electric motor adapted to drive the car at a reduced speed, an electrically controlled friction clutch between said additional motor and the car, electro-responsive means for simultaneously releasing said clutch and closing a circuit to the motor for full speed operation of the car, automatic means for applying said clutch and interrupting the circuit of said last named motor as the



car approaches a predetermined stopping point, means dependent for its operation upon a predetermined speed reduction of the car for closing a circuit to the additional motor whereby the latter operates to drive the car at reduced speed, a brake for the additional motor, and means for interrupting the circuit of said additional motor and applying the brake to stop the car at the predetermined stopping point.

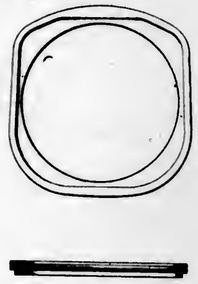
15,126. DRILL-HEAD. CLARENCE E. REED, Houston, Tex. Filed May 16, 1920. Serial No. 380,309. Original No. 1,279,759, dated Sept. 24, 1918, Serial No. 238,328, filed June 5, 1918. 7 Claims. (Cl. 255—71.)



3. In a tool for deep well drilling, a head having means at the upper end thereof for attachment to a drill stem, a transversely extending recess in the lower end thereof opening out through the bottom of the same, and a second recess located between one of the longer sides of the first named recess and the periphery of the head, a disk cutter located in the second recess, a retaining and bearing pin for the disk cutter insertible into position through said first named recess, coöperating surfaces associated with the outer portion of the pin and the wall between the second recess and the periphery of the head for retaining the pin in position, and a member adapted to be placed and held within the first named recess, in coöperative relation to the pin, after the latter has been inserted in position.

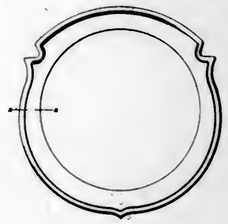
DESIGNS.

58,126. BEZEL. ARTHUR S. ALEXANDER, New York, N. Y., assignor to The J. Alexander Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Dec. 13, 1919. Serial No. 344,664. Term of patent 14 years.



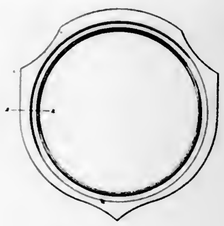
The ornamental design for a bezel, substantially as shown.

58,127. BEZEL. ARTHUR S. ALEXANDER, New York, N. Y., assignor to The J. Alexander Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,784. Term of patent 14 years.



The ornamental design for a bezel, substantially as shown.

58,128. BEZEL. ARTHUR S. ALEXANDER, New York, N. Y., assignor to The J. Alexander Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,785. Term of patent 14 years.



The ornamental design for a bezel, substantially as shown.

58,129. COLLAR-HOLDER. LAWRENCE E. BAER, Attleboro, Mass. Filed Jan. 17, 1921. Serial No. 438,025. Term of patent 14 years.



The ornamental design for a collar holder as shown.

58,130. SEESAW. JOSEPH P. BODENMILLER, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Mar. 7, 1921. Serial No. 450,492. Term of patent 14 years.



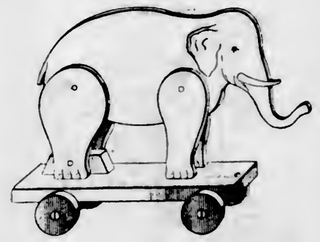
The ornamental design for a seesaw, as shown.

58,131. GASOLENE-DISPENSER CASING. JAMES HENRY BRADY, Louisville, Ky., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky., a Corporation of South Dakota. Filed Aug 25, 1919. Serial No. 319,830. Term of patent 14 years.



The ornamental design for a gasolene dispenser casing, as shown.

58,132. TOY. ALFRED SCOTT BUCHER, Decatur, Ga. Filed Aug. 27, 1920. Serial No. 406,489. Term of patent 3½ years.



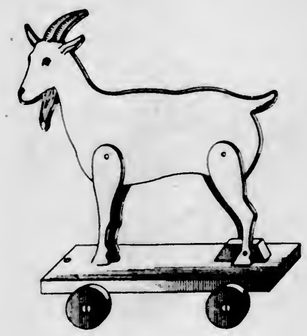
The ornamental design for a toy, substantially as shown.

58,133. TOY. ALFRED SCOTT BUCHER, Decatur, Ga. Filed Aug. 27, 1920. Serial No. 406,490. Term of patent 3½ years.



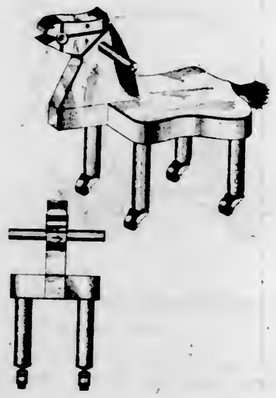
The ornamental design for a toy, substantially as shown.

58,134. TOY. ALFRED SCOTT BUCHER, Decatur, Ga. Filed Aug. 27, 1920. Serial No. 406,491. Term of patent 3½ years.



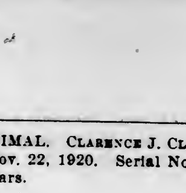
The ornamental design for a toy, substantially as shown.

58,135. TOY ANIMAL. CLARENCE J. CLOUSER, Columbus, Ohio. Filed Nov. 22, 1920. Serial No. 425,919. Term of patent 7 years.



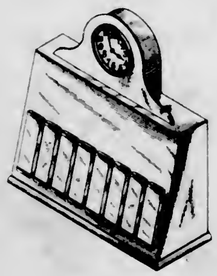
The ornamental design for a toy animal, as shown.

58,136. RADIATOR-CAP. CARL B. COOMBS, Indianapolis, Ind. Filed Mar. 9, 1921. Serial No. 450,976. Term of patent 7 years.



The ornamental design for a radiator-cap, as shown.

58,137. ADVERTISING DISPLAY DEVICE. FRANK P. CONNOLLY, York, Pa. Filed Nov. 11, 1920. Serial No. 423,494. Term of patent 14 years.



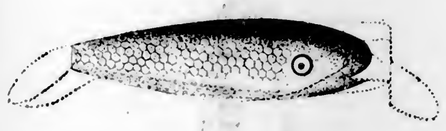
The ornamental design for an advertising display device, as shown.

58,138. COMBINATION CHECKER-BOARD AND TRAY. ANDREW M. DEIG, Seattle, Wash. Filed Feb. 14, 1921. Serial No. 445,009. Term of patent 7 years.



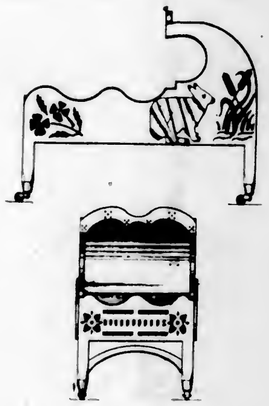
The ornamental design for a combination checker-board and tray, substantially as shown.

58,139. SURFACE ORNAMENTATION FOR ARTIFICIAL BAIT. HENRY S. DILLS, Garrett, Ind., assignor of one-half to James Heddon's Sons, Incorporated, Dowagiac, Mich., a Corporation of Michigan. Filed June 17, 1918. Serial No. 240,514. Term of patent 14 years.



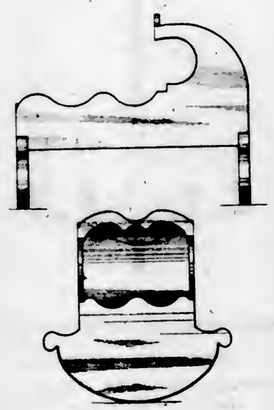
The ornamental design for a surface ornamentation for artificial bait, substantially as shown.

58,140. BED. RICHARD C. EAST, Evanston, Ill. Filed Oct. 25, 1920. Serial No. 419,542. Term of patent 7 years.



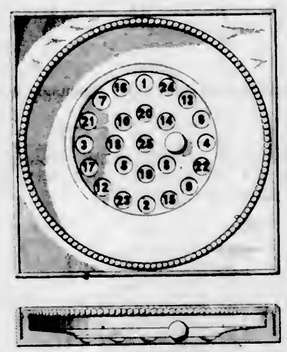
The ornamental design for a bed as shown.

58,141. CRADLE. RICHARD C. EAST, Evanston, Ill. Filed Oct. 25, 1920. Serial No. 419,543. Term of patent 7 years.



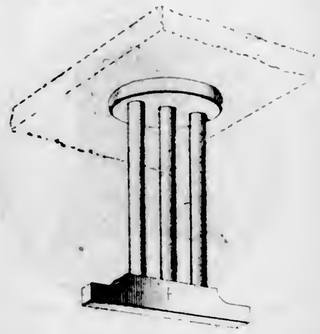
The ornamental design for a cradle as shown.

58,142. TOY. PHILLIP GOEHRING, Seattle, Wash. Filed Apr. 4, 1921. Serial No. 458,538. Term of patent 7 years.



The ornamental design for a toy as shown.

58,143. FOOTREST FOR CHILDREN'S VEHICLES. WARREN T. GREEN, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Jan. 31, 1921. Serial No. 441,476. Term of patent 14 years.



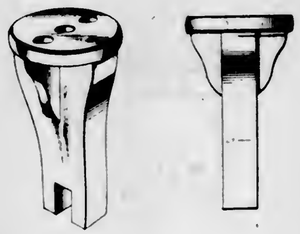
The ornamental design for a footrest for children's vehicles as shown.

58,144. WHEEL-FORK FOR CHILDREN'S VEHICLES. WARREN T. GREEN, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Jan. 31, 1921. Serial No. 441,477. Term of patent 14 years.



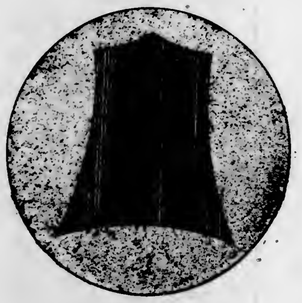
The ornamental design for a wheel fork for children's vehicles, as shown.

58,145. STEERING-HEAD FOR CHILDREN'S VEHICLES. WARREN T. GREEN, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Jan. 31, 1921. Serial No. 441,479. Term of patent 14 years.



The ornamental design for a steering head for children's vehicles, as shown.

58,146. AUTOMOBILE-LENS. HERBERT J. HANDS, Dallas, Tex. Filed Jan. 12, 1920. Serial No. 351,059. Term of patent 3½ years.



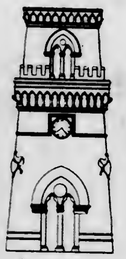
The ornamental design for an automobile lens as shown.

58,147. RADIATOR-CAP. WILLIAM C. HAUN, Indianapolis, Ind. Filed Mar. 23, 1921. Serial No. 454,919. Term of patent 7 years.



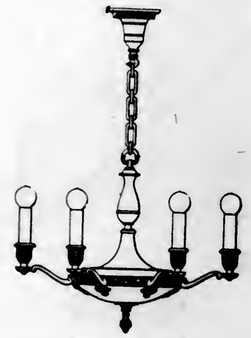
The ornamental design for a radiator-cap, as shown.

58,148. PHONOGRAPH. FRANK IUCULANO, New York, N. Y. Filed Apr. 21, 1920. Serial No. 375,633. Term of patent 3½ years.



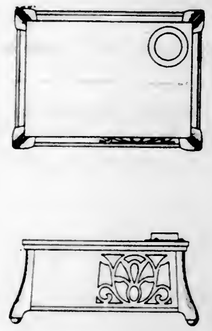
The ornamental design for a phonograph as shown.

58,149. LIGHTING-FIXTURE. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,288. Term of patent 3½ years.



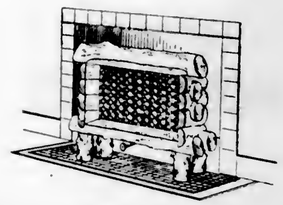
The ornamental design for a lighting fixture as shown.

58,150. PHONOGRAPH-CASING. GEORGE R. KUNKLE, Elyria, Ohio, assignor to The General Phonograph Manufacturing Company, Elyria, Ohio, a Corporation of Ohio. Filed Dec. 1, 1919. Serial No. 341,815. Term of patent 7 years.



The ornamental design for a phonograph casing, as shown.

58,151. RADIANT GAS-HEATER. EDWARD L. LOPE, Brooklyn, N. Y. Filed Nov 11, 1920. Serial No. 423,490. Term of patent 3½ years.



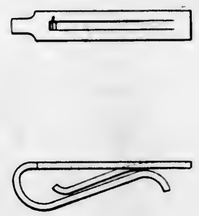
The ornamental design for a radiant gas heater, as shown.

58,152. WASHTUB. CARMELO MAGANUCO and FRANCESCO MAGANUCO, Philadelphia, Pa. Filed Dec. 13, 1919. Serial No. 344,603. Term of patent 14 years.



The ornamental design for a washtub as shown.

58,153. TIE-CLIP. FRED S. MAKER, Seekonk, Mass., and RALPH K. MAKER, Providence, R. I. Filed Jan. 27, 1921. Serial No. 440,504. Term of patent 14 years.



The ornamental design for a tie-clip substantially as shown.

58,154. LUBRICATING ATTACHMENT. CHARLES W. MANSEL, Buffalo, N. Y. Filed Sept. 28, 1920. Serial No. 413,407. Term of patent 14 years.



The ornamental design for a lubricating attachment, as shown.

58,155. SIGN. BRUCE MEEK and FRED W. MILLER, Des Moines, Iowa. Filed July 8, 1919. Serial No. 309,519. Term of patent 3½ years.



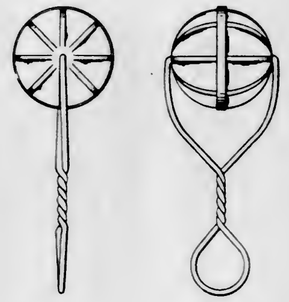
The ornamental design for a sign, as shown.

58,156. PHONOGRAPH-CABINET. MELVILLE W. MIX, Mishawaka, Ind. Filed Feb. 12, 1920. Serial No. 358,240½. Term of patent 14 years.



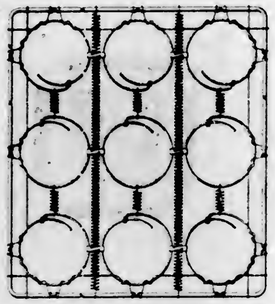
The ornamental design for a phonograph cabinet, as shown.

58,157. RATTLE. FREDERICK C. MONKHOUSE, Rochester, N. Y. Filed Mar. 30, 1920. Serial No. 370,011. Term of patent 3½ years.



The ornamental design for a rattle as shown.

58,158. BED-SPRING. JACOB L. MOORE, Muncie, Ind. Filed July 19, 1920. Serial No. 397,505. Term of patent 14 years.



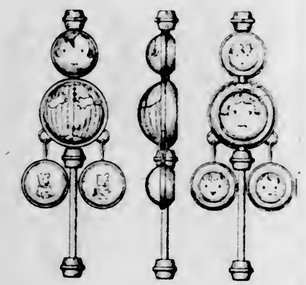
The ornamental design for a bed spring, as shown.

58,159. CHAIN RATTLE. LEO MORSE, New York, N. Y. Filed Oct. 16, 1920. Serial No. 417,525. Term of patent 7 years.



The ornamental design for a chain rattle, as shown.

58,160. RATTLE. LEO MORSE, New York, N. Y. Filed Jan. 6, 1921. Serial No. 435,521. Term of patent 7 years.



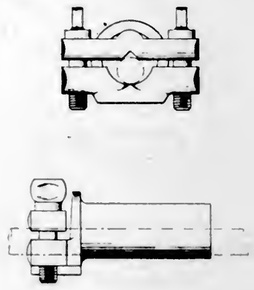
The ornamental design for a rattle, as shown.

58,161. SURFACE ORNAMENTATION OF AN ARTICLE OF MANUFACTURE. GEORGE H. NEVIUS, East Orange, N. J., assignor to Hugo Schneider, Tarrytown, N. Y. Filed Sept. 22, 1917. Serial No. 192,817. Term of patent 3½ years.



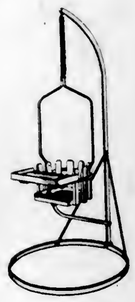
The ornamental design for surface ornamentation of an article of manufacture, as shown and described.

58,162. CARBON-HOLDER. HAROLD D. REGAR, Reading, Pa. Filed Sept. 9, 1920. Serial No. 409,259. Term of patent 14 years.



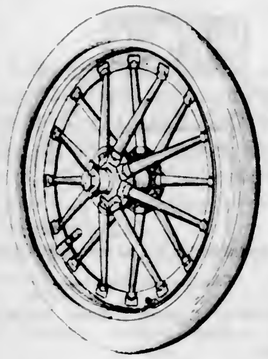
The ornamental design for a carbon holder, as shown.

58,163. BABY-JUMPER. JOHN REUTHER, Hamburg, N. Y. Filed Mar. 18, 1921. Serial No. 453,400. Term of patent 14 years.



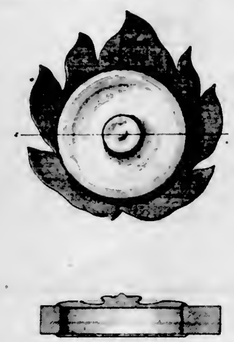
The ornamental design for a baby jumper, as shown.

58,164. VEHICLE-WHEEL. ARTHUR M. STANLEY, Lynn, Mass., assignor to Stanley Steel Welded Wheel Corporation, Boston, Mass., a Corporation of Delaware. Filed Mar. 25, 1921. Serial No. 455,637. Term of patent 14 years.



The ornamental design for a vehicle wheel as shown and described.

58,165. CANDY-CONTAINER. COLLIS H. STEERE, Palo Alto, Calif. Filed Dec. 18, 1919. Serial No. 345,899. Term of patent 3½ years.



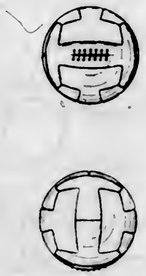
The ornamental design for a candy container, as shown.

58,166. LEATHER FOOTBALL-COVER. JOHN R. THOMLINSON, Partick, Glasgow, Scotland. Filed Sept. 14, 1920. Serial No. 410,338. Term of patent 14 years.



The ornamental design for a leather football cover, as shown and described.

58,167. LEATHER FOOTBALL-COVER. JOHN R. THOMLINSON, Partick, Glasgow, Scotland. Filed Sept. 14, 1920. Serial No. 410,339. Term of patent 14 years.



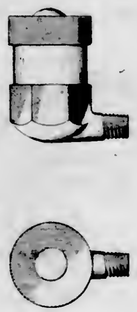
The ornamental design for a leather football cover, as shown and described.

58,168. FURNITURE-COVER. ELSIE MAY THOMPSON, New York, N. Y. Filed Sept. 8, 1920. Serial No. 409,009. Term of patent 3½ years.



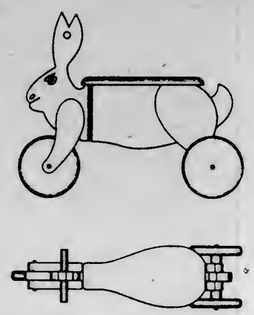
The ornamental design for a furniture cover as shown.

58,169. LUBRICATOR. ALLEN A. VAN ORSDALE and JOHN B. LINN, Philadelphia, Pa. Filed Sept. 25, 1920. Serial No. 412,880. Term of patent 3½ years.



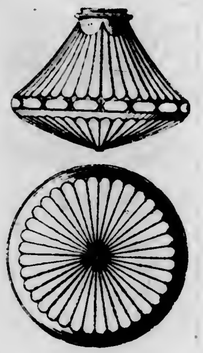
The ornamental design for a lubricator as shown.

58,170. TOY COASTER. CARL VOORHEES, Flora, Ind. Filed Mar. 12, 1921. Serial No. 451,818. Term of patent 7 years.



The ornamental design for a toy coaster as shown.

58,171. LIGHTING-GLOBE. ALBERTUS B. WAGGONER, Philadelphia, Pa., assignor to Pennsylvania Sales and Export Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 6, 1920. Serial No. 415,172. Term of patent 7 years.



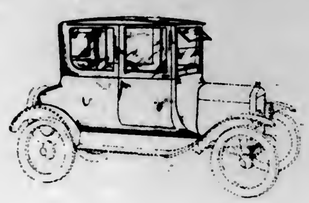
The ornamental design for a lighting globe as shown.

58,172. EMERGENCY-TANK FOR AUTOMOBILES. WILLIAM LEE WASHINGTON, East Youngstown, Ohio. Filed Apr. 4, 1921. Serial No. 458,551. Term of patent 14 years.



The ornamental design for an emergency tank for automobiles, as shown.

58,173. AUTOMOBILE-BODY. ERIC F. WILLER, Milwaukee, Wis., assignor to Charles Abresch Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 9, 1920. Serial No. 395,167. Term of patent 7 years.



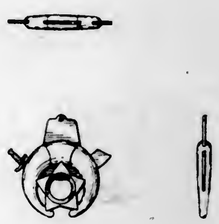
The ornamental design for an automobile body, as shown.

58,174. BOTTLE. SAMUEL J. WOOD, Los Angeles, Calif. Filed Oct. 29, 1920. Serial No. 420,576. Term of patent 7 years.



The ornamental design for a bottle, substantially as shown.

58,175. CIGAR-CUTTER. CARL E. ZAPFFE, Seattle, Wash. Filed Dec. 27, 1920. Serial No. 433,490. Term of patent 3½ years.



The ornamental design for a cigar cutter, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 14, 1921.

[PUBLISHED JUNE 24, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 104,173. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NEW JERSEY ZINC COMPANY, New York, N. Y. Filed May 31, 1917.

New Jersey Zinc Co.

No claim being made in this application for registration to the exclusive use of the words "New Jersey" or "Zinc" or "Co." as trade-marks or parts of trade-marks when used alone or in other arrangements than shown in the drawing.

Particular description of goods.—Paint-Pigments, and Particularly Zinc Oxid, Leaded Zinc Oxid, Ocher, and Lithopone.

Claims use since May 15, 1917.

Ser. No. 109,312. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM H. BROWN, Cleveland, Ohio. Filed Mar. 2, 1918.

VICTORY KNITTER

No claim is made to the word "Knitter" apart from the mark illustrated.

Particular description of goods.—Flexible Knitting-Needles.

Claims use since Feb. 22, 1918.

Ser. No. 112,911. (CLASS 37. PAPER AND STATIONERY.) ANTONIO FREIXAS, Buenos Aires, Argentina. Filed Aug. 28, 1918.



Particular description of goods.—Alcoholic Beverage Tinctured with Anise.

Claims use since about Nov. 30, 1915.

Ser. No. 116,772. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y. Filed Mar. 21, 1919.

BINGO

Particular description of goods.—Washing-Tablets.

Claims use since Feb. 1, 1919.

Ser. No. 118,295. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR O. CHALLENGER, New York, N. Y. Filed May 9, 1919.

REPUBLIC

Particular description of goods.—Kansas-Hard-Wheat Clear Flour.

Claims use since June 10, 1912.

Ser. No. 121,516. (CLASS 37. PAPER AND STATIONERY.) BLANCHE E. BEADLE, Springfield, Mass. Filed Aug. 11, 1919.

Nu-Electro

Particular description of goods.—Hair-Curlers.

Claims use since Apr. 10, 1918.

Ser. No. 122,083. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PIO CABAÑAS FONT, Barcelona, Spain. Filed Aug. 28, 1919.



Particular description of goods.—Natural Mineral Water.

Claims use since June 21, 1918.

Ser. No. 122,455. (CLASS 2. RECEPTACLES.) AIR-TIGHT STEEL TANK COMPANY, Pittsburgh, Pa. Filed Sept. 9, 1919.

ATSCo

Particular description of goods.—Tanks—Namely, Copper-Brazed Tanks, Welded or Riveted Tanks, and High and Low Pressure Tanks for Water, Compressed Air, Gases, and Liquids.
Claims use since about Oct. 25, 1913.

Ser. No. 122,844. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER LAUTERJUNG, Solingen, Germany. Filed Sept. 18, 1919.



Particular description of goods.—Pocket-Knives, Penknives, Table-Knives, Razors, and Scissors.
Claims use since Mar. 16, 1885.

Ser. No. 123,515. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HUNTER H. CUTTING, Rockford, Ill. Filed Oct. 7, 1919.

Kutting Klock Kase

No exclusive claim being made to the words "Clock Case Keeps Clocks Clean."
Particular description of goods.—Clock-Cases.
Claims use since Sept. 1, 1919.

Ser. No. 123,622. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 10, 1919. Under ten-year proviso.

Framers'

Particular description of goods.—Pencils.
Claims use since the year 1890.

Ser. No. 124,839. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FRANK W. ALTER, Chicago, Ill. Filed Nov. 13, 1919.

Quality Time

Particular description of goods.—Timepieces.
Claims use since Jan. 2, 1916.

Ser. No. 125,248. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RADIOR CO. LTD. OF LONDON, New York, N. Y. Filed Nov. 24, 1919.



Consisting of a panel of a purple hue, substantially as shown, with white rays radiating from the center toward the sides of the panel, said panel being surrounded by a garland of roses of pinkish hues and leaves of greenish hues.
Particular description of goods.—Toilet Powder, (Face-Powder, Compact Powder, Talcum Powder, and Shampoo-Powder;) Rouge; Toilet Cream, (Face-Cream, Vanishing Cream, and Night-Cream,) and Hair-Tonic.
Claims use since November, 1913.

Ser. No. 125,829. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Dec. 11, 1919.

SHAMROCK

Particular description of goods.—Silk Piece Goods.
Claims use since about 1910.

Ser. No. 125,840. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GLOBE GROCERY STORES, INC., Brooklyn, N. Y. Filed Dec. 11, 1919.

POCONO

Particular description of goods.—Soap Powder, Laundry and Toilet Soap, Pine-Tar Soap, Silver-Polish, Washing Fluid, Scouring-Powder.
Claims use since about January, 1916.

Ser. No. 126,739. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL CHEMICAL COMPANY, Syracuse, N. Y. Filed Jan. 2, 1920.

AUNT SALL'S CREAM or SOAP



The picture constituting a portion of the trade-mark is fanciful. No claim is herein made to the exclusive use of the words "Cream of Soap" apart from the mark shown in the drawing.
Particular description of goods.—Soap.
Claims use since May 15, 1919.

Ser. No. 127,398. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 20, 1920.



Particular description of goods.—Pharmaceutical Preparations—Namely, Aloin, Analgesic Balm, Alum, Anise, Anthracite, Antimony and Potassium Tartrate, Antimony Sulfid, Antipyrin, Arnica, Arsenic, Aspirin, Beta-Naphthol, Bismuth Subcarbonate, Bismuth Subsalicylate, Blue-Stone, Borax, Boric Acid, Calcined Magnesia, Calcium Carbonate, Camphor, Carbolic Acid, Carmine, Cascara, Castor-Oil; Chalk, (Prepared;) Chamomile-Flowers, Chloroform, Cinchona, Copperas, Corrosive Sublimate, Crab Orchard Salt, Cream of Tartar, Dental Cream, Dyes, Epsom Salt, Flaxseed-Meal, Formaldehyde, Formin, Gentian, Glycerin, Glycyrrhiza, Guaiac, Guaiacol Carbonate, Gum-Myrrh, Gum-Olibanum, Gum-Tragacanth, Henna, Hydroquinone, Iron Sulfate, Iodin, Jalap, Juniper-Berries, Lead Acetate, Lycopodium, Magnesium Carbonate, Magnesium Oxid, Mercury with Chalk, Milk of Magnesia, Mineral Oil, Used Both as an Intestinal Lubricant and as a Base in the Manufacture of Medicinal Preparations, Naphthol, Naphthalene, Orange-Flowers, Orris-Root, Oxalic Acid, Paregoric, Potassium Alum, Potassium Bicarbonate, Potassium Carbonate, Potassium Chlorate, Potassium Permanganate, Phenyl Salicylate, Quinin, Rhubarb, Rochelle Salt, Sabadilla-Seed, Salicin, Salicylic Acid, Saltpeter, Sanguinaria, Santonin, Sarsaparilla, Sassafras, Sedlitz Mixture, Senna, Soda, Silicate of Soda, Sodium Acetate, Sodium Benzoate, Sodium Bicarbonate, Sodium Bromid, Sodium Phenolsulfonate, Spirits of Camphor, Sulfonal, Sulfur, Sunflower-Seed, Suppositories, Syrup Hypophosphites, Terebinthina, Terpin Hydrate, Trional, Tripoli, Wild-Cherry Bark, Witch-Hazel, Yellow Ocher; Liniments for the Treatment of Cuts, Wounds, Sores, Coughs, Colds, Aches, Pains, and Affections of the Skin and Bones; Disinfectants, Insecticides, Germicides, and Deodorizers; Ointments for Headaches, Inflammation, Earache, Neuralgia, Sores, Sprains, Sunburn, Catarrh, Bruises, Burns, Scalds, Chapped Hands, Chilblains, Cold-Sores, Croup, Cuts, and other Affections; Vegetable Prescription for the Treatment of Female Weaknesses, Painful Menstruation, Cramps, Inflammation, and Bearing-Down Pains; Cordials for Use in the Treatment of Irregularities of the Bowels, a Gargle and Mouth-Wash; Liver and Kidney Pills and Preparations for the Relief of Indigestion and Constipation and other Affections of the Stomach, Bowels, Liver and Kidneys; Salves for Sores, Wounds, Cuts, Sprains, Ringworm-Itch, Chapped and Cracked Skin, Blind, Itching, and Bleeding Piles, Ulcers, Boils, and Skin Diseases Generally; a Tonic for Nervous Diseases, Neuralgia, Rheumatism, Nervous Debility, and Dyspepsia; a Tonic and Blood-Purifier for Scrofula, Eczema, Boils, and Pimples; a Tonic for Strengthening the Nerves, Muscles, and Vitalizing the Blood; Elixir for Lumbago, Rheumatism, and Gout; Sore-Throat Medicine, Corn Medicine, Pomades and Skin-Beautifiers; Tablets and Syrups for Coughs, Colds, Bronchitis, and other Affections of the Throat and Lungs; Eye-Lotion, Headache-Tablets, Pile Remedies, Toothache-Drops, and Food-Colors.
Claims use since 1914.

Ser. No. 128,320. (CLASS 39. CLOTHING.) STRAUS, ROYER & STRASS, INC., Baltimore, Md. Filed Feb. 12, 1920.

Nayvee MIDDIWEAR

Particular description of goods.—Blouse-Suits and Ladies' and Children's Blouses.
Claims use since about May 1, 1919.

Ser. No. 129,006. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EUGENE EHLICE, Vestal, N. Y., assignor to Universal Instruments and Metal Company, Inc., Union, N. Y. Filed Feb. 28, 1920.

SAF TRADE-MARK LOK

The mark consists of the coined word "Saf" above the coined word "Lok," separated by two parallel lines, the whole surrounded by an outline-border of diamond shape, no claim being made to the words "Saf-Lok" and "Trade-Mark" apart from the mark shown in the drawing.
Particular description of goods.—Safety-Pins.
Claims use since Dec. 1, 1919.

Ser. No. 129,301. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ALEXANDER E. BLOCK, St. Louis, Mo. Filed Mar. 6, 1920.

Heel Leveler

Particular description of goods.—Flexible Non-Metallic Supports of Leather or Like Material for the Heel and Longitudinal Arch of the Foot.
Claims use since Dec. 1, 1910.

Ser. No. 129,560. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO CO., New York, N. Y. Filed Mar. 11, 1920.

IRBY'S BLACK LEAF

Particular description of goods.—Leaf-Tobacco.
Claims use since Dec. 17, 1919.

Ser. No. 130,137. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GLOBE ELECTRIC COMPANY, Milwaukee, Wis. Filed Mar. 24, 1920.

GLOBE LIGHT POWER

Particular description of goods.—Electrical Apparatus—Namely, Automatic Contractors, Circuit-Breakers, Switchboards, Motors, Utility-Motors, Power-Motors, Dynamos, and Electric-Lighting Plants.
Claims use since Feb. 18, 1920.

Ser. No. 130,511. (CLASS 39. CLOTHING.) ALEXANDER E. BLOCK, St. Louis, Mo. Filed Apr. 2, 1920.

LIGHTFOOT

Particular description of goods.—Flexible Supports of Leather or Like Non-Metallic Material for the Sole of the Foot, Worn Inside Boots and Shoes.
Claims use since Feb. 1, 1920.

Ser. No. 130,648. (CLASS 39. CLOTHING.) DICKSON RAINCOAT CO., Dickson, Tenn. Filed Apr. 5, 1920.

SEA-LION

Particular description of goods.—Raincoats Commonly Known as Slickers, Waterproof Overalls and Jumpers, and Leggings.
Claims use since Mar. 15, 1920.

Ser. No. 130,954. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EUCLID CANDY COMPANY, Cleveland, Ohio. Filed Apr. 10, 1920.

WHITE DOVE

Particular description of goods.—Candy.
Claims use since Aug. 7, 1915.

Ser. No. 131,265. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HASTINGS & CO., New York, N. Y., assignor to Hastings Cocoa Products Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1920.



Particular description of goods.—Specially-Prepared Chocolate in Powdered Form Mixed with Sugar and Dried Cream or Milk to Enable It to be Stirred in Hot Water to Make a Drink.
Claims use since about August, 1919.

Ser. No. 131,739. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE K. P. PRODUCTS CO., INC., New York, N. Y. Filed Apr. 28, 1920.

K.P.

Particular description of goods.—Automobile Rim-Tools.
Claims use since Nov. 21, 1919.

Ser. No. 131,874. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) IGNITION COMPANY OF AMERICA, New York, N. Y. Filed Apr. 30, 1920.

IGNITO

Particular description of goods.—Spark-Plugs.
Claims use since Mar. 15, 1920.

Ser. No. 131,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Apr. 30, 1920.

DETHNEL

Particular description of goods.—Insecticides.
Claims use since Mar. 8, 1918.

Ser. No. 132,155. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. WOLF & CO., Philadelphia, Pa. Filed May 7, 1920.

WOLF'S RATTLESNAKE

The words "Rattle Snake" are hereby disclaimed apart from the mark shown.
Particular description of goods.—A Liniment for the Treatment of Rheumatism, Gout, Lumbago, Neuralgia, Sciatica, Chilblains, Soreness and Stiffness of Muscles, Lame and Weak Backs, Bruises, Sprains, Strains, Painful Joints, Bites, Stings, Corns, and Bunions.
Claims use since about Apr. 1, 1913.

Ser. No. 132,515. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. A. W. DAVIS CORP., New York, N. Y. Filed May 17, 1920.

ARTWOOL

Particular description of goods.—Fiber and Wool Carpets and Rugs.
Claims use since Jan. 1, 1915.

Ser. No. 132,993. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HADLEY DRUG COMPANY, Miami, Okla. Filed May 26, 1920.

PEP-O-LAX

The trade-mark being displayed in red.
Particular description of goods.—A Liver Tonic.
Claims use since Apr. 12, 1905.

Ser. No. 133,048. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FABRIQUE D'HORLOGERIE ELECTA GALLET & Co. S. A., La Chaux-de-Fonds, Switzerland. Filed May 28, 1920.

ELECTA.

Particular description of goods.—Watches and Their Parts.
Claims use since Mar. 8, 1900.

Ser. No. 133,049. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FABRIQUE D'HORLOGERIE ELECTA GALLET & Co. S. A., La Chaux-de-Fonds, Switzerland. Filed May 28, 1920.

GALLET.

Particular description of goods.—Watches and Their Parts.
Claims use since 1856.

Ser. No. 133,120. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ADDRESSOGRAPH COMPANY, Chicago, Ill. Filed June 1, 1920.

Addressograph
PRINTS FROM TYPE

No exclusive claims to the words "Prints from Type" being made apart from the mark shown.
Particular description of goods.—Machines for Printing Addresses and other Matter.
Claims use since on or about July 1, 1909.

Ser. No. 133,263. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

LUDLUM

Particular description of goods.—Alloy Chisel-Steel, Alloy Drawing-Die Steel, Alloy Pneumatic-Chisel Steel, Alloy Punch and Die Steel, Alloy Tool-Steel, Alloy Twist-Drill Steel, Ball-Bearing Steel, Carbon Tool-Steel, Carbon Twist-Drill Steel, Chrome Magnet-Steel, Drawing-Die Steel, Drill-Steel, Drop-Forge-Die-Block Steel, Alloys Used for Electrical Heating Elements, Extrusion-Die Steel, Finishing-Steel, High-Speed Steel, Hot-Work Steel, Magnet-Steel, Non-Corrosive Steel, Non-Shrinking Tool-Steel, Pneumatic-Rivet-Set Steel, Razor-Steel, Alloys Used for Resistance Elements, Roll-Steel, Rustless Steel, Tong-Bit Steel, Tool-Steel, Tungsten Magnet-Steel.
Claims use since Mar. 1, 1917.

Ser. No. 133,429. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) JOHN RUNK, Stillwater, Minn. Filed June 8, 1920.

KLEANTONE

Comprises the word "Kleantone."
Particular description of goods.—Phonograph-Record-Cleaning Attachments and the Wipers Used in Connection Therewith.
Claims use since May 8, 1880.

Ser. No. 133,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESCOFFIER LIMITED, London, England. Filed June 16, 1920.

ESCOFFIER

Particular description of goods.—Bottled Table Sauces, Essence for Flavoring Food, Mayonnaise, Mustard Dressing; Canned Soups, Broths, and Potage; Canned Meats; Potted Meats—Chicken, Turkey, Wild Duck, Ham, Tongue, Fish, Lobster; Piccalilli, Canned or Bottled Fruits and Vegetables, Vinegars, Salad-Cream, Olive-Oil, Salad-Oil, Pickles, Tomato Catsup, Oyster Cocktail, Chutney, Chow-Chow, Horse-Radish, Canned Pot Pies, and Chicken Jelly.
Claims use since Mar. 4, 1918.

Ser. No. 134,232. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER BAKER & COMPANY, LTD., Boston, Mass. Filed June 26, 1920.

CHAMPION

Particular description of goods.—Ten-Pound Cakes of Sweet-Chocolate Coatings.
Claims use since January, 1910.

Ser. No. 134,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATTHEW RICHARTZ, New York, N. Y. Filed June 26, 1920.



The portrait shown in the drawing is my photograph and the facsimile signature is my signature.
Particular description of goods.—Food-Salt for Diabetes.
Claims use since Apr. 1, 1920.

Ser. No. 134,340. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANAHEIM CITRUS FRUIT ASSOCIATION, Anaheim, Calif. Filed June 29, 1920.

BALBOA

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Jan. 1, 1920.

Ser. No. 134,388. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) F. W. STEWART MANUFACTURING CORPORATION, Chicago, Ill. Filed June 29, 1920.



No claim is made to the word "Chicago" apart from the mark shown in the drawing.
Particular description of goods.—Replacement Parts for Speedometers.
Claims use since Jan. 1, 1916.

Ser. No. 134,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RED BALL COMPANY, Madrid, Iowa. Filed June 30, 1920.



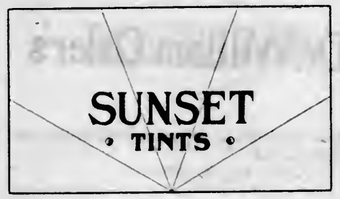
Particular description of goods.—Chemical and Toilet Preparations—viz., Herb Preparation Used as a General Tonic, Liquid Laxative, Digestive Preparations Made of Fruit-Juices, Liquid Preparation for Destruction of Germs and Bacteria, Camphor Cream, General Medicinal Tonic, Cough-Syrup, Vegetable Anodyne Liniment, Rheumatic Preparation, Throat and Lung Compound, Dyspepsia Remedy, Corn Remedy, Foot-Powder; Paste for Catarrh, Coughs, and Colds; Menthol Camphorine, Diuretic Tablets, Laxative Tablets and Wafers, Digestive Tablets, Aspirin Tablets, Roup and Cholera Medicine, Cold-Cream, Vanishing Cream, Skin-Lotion; Face-Cream, Toilet Water, Dandruff Remedy, Massage-Cream, Liquid Shampoo, Glycerin and Rose-Water, Complexion-Powder, Dental Cream, Liquid Preparation and Tablets for the Relief of Liver and Kidney Troubles and Tonsillitis, Sore Throat and Biliousness, Antiseptic Healing-Powder, Fly-Powder, Insect-Destroyer, Stock-Dip, and Tablets for the Destruction of Worms.
Claims use since August, 1918.

Ser. No. 134,832. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JOHN MUELLER LICORICE CO., Cincinnati, Ohio. Filed July 12, 1920.

FAMOUS

Particular description of goods.—Licorice Confections.
Claims use since 1887.

Ser. No. 134,973. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE ORLANDO CHEMICAL CO., Orlando, Fla. Filed July 14, 1920.



No claim is made to the word "Tints" apart from the mark shown in the drawing.
Particular description of goods.—Water-Color Paints.
Claims use since June 1, 1920.

Ser. No. 135,069. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed July 16, 1920.



No claim being made to the words "Products" and "They Speak for Themselves" except in connection with the mark shown.
Particular description of goods.—Halters, Surcingles, Girths, Web-Harness; Auto, Bag, School, Lowering and Bundle Straps.
Claims use since February, 1920.

Ser. No. 135,283. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE R. WELLINGTON, Inglewood, Calif. Filed July 22, 1920.



No claim being made to the words "Reg. in U. S. Pat. Office" apart from the mark as shown.
Particular description of goods.—Medicinal Preparations in the Form of Powder, Liquid, and Tablets for the Treatment of Liver Troubles in Poultry.
Claims use since July 1, 1920.

Ser. No. 135,328. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed July 23, 1920.

Junior

Particular description of goods.—All-Rubber Baby-Pants, All-Rubber Waders, and All-Rubber Garment-Protectors.
Claims use since July 21, 1920.

Ser. No. 135,329. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed July 23, 1920.

Jiffy Junior

Particular description of goods.—All-Rubber Baby-Pants, All-Rubber Waders, and All-Rubber Garment-Protectors.
Claims use since July 20, 1920.

Ser. No. 135,352. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WANDER COMPANY, Chicago, Ill. Filed July 28, 1920.



We hereby specifically disclaim the words "Net Weight 2 1/2 lbs. Pure Barley Malt Extract" as a part of the mark shown on the drawing.
Particular description of goods.—Barley-Malt Extract.
Claims use since Mar. 1, 1920.

Ser. No. 135,623. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE CHAS. R. SARGENT COMPANY, Cleveland, Ohio. Filed July 30, 1920.



No claim is made to the words "The Sign of Service" except in the arrangement shown.
Particular description of goods.—Paint-Oils, Paint-Colors, Paint-Pigments, and Turpentine.
Claims use since May, 1920.

Ser. No. 135,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IMPERIAL DYEWOOD CORPORATION, Lynchburg, Va., and New York, N. Y. Filed Aug. 6, 1920.



Particular description of goods.—Dyewood and Tanning Extracts (Logwood Extract, Hematin Extract, Fustic Extract, Osage-Orange Extract, Quercitron Extract, Hypernic Extract, Sumac Extract, Cutch Extract, Gambier Extract, Chestnut Extract, Oak-Bark Extract, Hemlock Extract) and Decoctions in Paste, Solid, and Crystal Forms.
Claims use since June 1, 1920.

Ser. No. 135,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIBERTY CANDY COMPANY, Grand Rapids, Mich. Filed Aug. 6, 1920.



The color-lining upon the trade-mark indicates a blue background with red dots dispersed therein, the upper part of the background being broken away for the insertion of the words "Liberty Dough Boy."

Particular description of goods.—Candles.

Claims use since Jan. 15, 1920.

Ser. No. 136,061. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WM. B. BLISS, Jr., & Co., New York, N. Y. Filed Aug. 13, 1920.



The exclusive use of the words "Everstretch" and "Elastic" is disclaimed except as associated with the mark shown.

Particular description of goods.—Elastics.

Claims use since May 14, 1920.

Ser. No. 136,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NELLIE M. WARE, Cleveland, Ohio. Filed Aug. 21, 1920.



The drawing is a picture of Nellie M. Ware.

Particular description of goods.—Complexion-Creams, Hair Tonics and Beautifiers.

Claims use since July 1, 1920.

Ser. No. 136,492. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VALLELY LABORATORIES, Buffalo, N. Y. Filed Aug. 25, 1920.

Dr. William Osler's

Particular description of goods.—Remedies for Treatment of Indigestion.

Claims use since Aug. 1, 1919.

Ser. No. 136,580. (CLASS 38. PRINTS AND PUBLICATIONS.) BROWN & BIGELOW, St. Paul, Minn. Filed Aug. 28, 1920.

Remembrance Advertising

Particular description of goods.—Art-Calendars, Greeting-Cards, and Mottoes.

Claims use since Mar. 1, 1920.

Ser. No. 136,630. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLEN L. HAAS, Racine, Wis. Filed Aug. 30, 1920.

PALIGA'S



The portrait which appears in the trade-mark is that of F. J. Paliga, who is now deceased.

Particular description of goods.—Liniment and Remedies for Use Externally for the Following Ailments: Rheumatism, Lumbago, Sciatica, Pleurisy, Headache, Neuralgia, Stiff Neck, Stiff Joints, Muscular Cramps, Sore Throat, Sore Feet, Toothache, Earache, Lame Back, Chilblains, Cuts, Bruises, Sprains, Burns, Bites and Stings of Insects and Reptiles, and Internally for Stomach-Ache, Cramps, Diarrhea, Colic, Coughs, Colds, Chills, and Many Similar Ailments.

Claims use since July 15, 1920.

Ser. No. 136,879. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MEYER JOSEPH DAVIDSEN, Paris, France. Filed Sept. 7, 1920.

TRIPLEX

Particular description of goods.—Grinding-Machines, Such as Cement, Ore, or Stone Mills, and Parts Thereof.

Claims use since May, 1920.

Ser. No. 137,260. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL GREINER, New York, N. Y. Filed Sept. 16, 1920.

GENUNG

Particular description of goods.—Essential Oils Suitable for the Production of Perfumes, Natural Flower-Oils Suitable for Perfumes, Chemicals Suitable for Production of Perfumes, Perfume-Oils, and Perfumes.

Claims use since Jan. 27, 1920.

Ser. No. 137,331. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID G. PUDERBAUGH, Altoona, Pa. Filed Sept. 18, 1920.

BRONKOLA

Particular description of goods.—Medicinal Preparation for Asthma, Hay-Fever, Bronchitis, Sore Throat, Catarrh, Chronic Coughs, Congestion of the Lungs, and Influenza.

Claims use since Mar. 1, 1920.

Ser. No. 137,333. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROGERS COMPANY, Tacoma, Wash. Filed Sept. 18, 1920.

COOKOLA

Particular description of goods.—Vegetable Oils and a Combination of Vegetable Oils and Animal Fats for Food Purposes.

Claims use since Sept. 7, 1920.

Ser. No. 137,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STATES CHEMICAL CO., Pittsburgh, Pa. Filed Sept. 18, 1920.

NAHPAK IRON



Applicant disclaims the use of the word "Iron" apart from the mark as shown on the drawing.

Particular description of goods.—General-Tonic Tablets.

Claims use since Sept. 1, 1918.

Ser. No. 137,384. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed Sept. 20, 1920.

PIERRETTE

Particular description of goods.—Silk, Cotton, and Woolen Piece Goods and Combinations Thereof.

Claims use since May 15, 1915.

Ser. No. 137,420. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KNIGHT ENGINEERING & SALES CO., Los Angeles, Calif. Filed Sept. 21, 1920.

KESCO

Particular description of goods.—Electric Hand-Drills.

Claims use since on or about Aug. 25, 1920.

Ser. No. 137,445. (CLASS 2. RECEPTACLES.) HENRY CHESLER, Cleveland, Ohio. Filed Sept. 22, 1920.



No claim being made to the representation of the bag, to "Better Built," to "Burlap Bags," or to "That Will Hold" except in the arrangement and combination here shown.

Particular description of goods.—Burlap, Jute, and Cotton Bags.

Claims use since Jan. 1, 1918.

Ser. No. 137,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD J. KLINE, San Francisco, Calif. Filed Oct. 2, 1920.

KLIKO

The mark is printed in red, as indicated in the drawing.

Particular description of goods.—Shampoos and Disinfectants.

Claims use since Nov. 13, 1917.

Ser. No. 137,860. (CLASS 15. OILS AND GREASES.) SERVICE OIL REFINING COMPANY, Kokomo, Ind. Filed Oct. 2, 1920.



The words "Service Oils Give Service" and "Gasoline" are hereby disclaimed apart from the mark as shown.

Particular description of goods.—Gasolene.

Claims use since March, 1918.

Ser. No. 137,883. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILLERICH & BRADSBY CO., INC., Louisville, Ky. Filed Oct. 4, 1920.

George "Babe" Ruth

Being a facsimile of the signature of George "Babe" Ruth.

Particular description of goods.—Baseball-Bats.
Claims use since Sept. 16, 1918.

Ser. No. 137,989. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ADLER & SPUND, New York, N. Y. Filed Oct. 6, 1920.

BestoTip

No claim is made to the word "Tip" apart from the mark shown in the drawing.

Particular description of goods.—Shoe-Laces.
Claims use since October, 1919.

Ser. No. 138,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KING CANDY CO., Fort Worth, Tex. Filed Oct. 7, 1920.

FRU-NUT

Particular description of goods.—Candy.
Claims use since 1910.

Ser. No. 138,077. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY L. WITT, Pittsburgh, Pa. Filed Oct. 7, 1920.

SANI-KIL
DISINFECTANTS and RODENT, INSECT and VERMIN EXTERMINATORS
PRODUCTS

All the wording appearing on the drawing, with the exception of the word "Sani-Kil," is disclaimed apart from the mark as shown.

Particular description of goods.—A Chemical Vermin-Exterminator.
Claims use since Jan. 1, 1915.

Ser. No. 138,092. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAFFIR CHEMICAL LABORATORIES, Omaha, Nebr. Filed Oct. 8, 1920.

A KAFFIR PRODUCT

No claim being made to the words "A" and "Products" apart from the mark as shown in the drawing.

Particular description of goods.—A Preparation for Purifying the Blood and a Tooth-Paste and Mouth-Wash for the Treatment of Pyorrhea.
Claims use since May 15, 1920.

Ser. No. 138,148. (CLASS 39. CLOTHING.) JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Oct. 9, 1920. Under ten-year proviso.

CLEAR BEAVER

Particular description of goods.—Soft and Stiff Felt Hats and Caps for Men and Boys.
Claims use since prior to 1879.

Ser. No. 138,179. (CLASS 11. INKS AND INKING MATERIALS.) THE NEW JERSEY ZINC COMPANY, New York, N. Y. Filed Oct. 11, 1920.

New Jersey Zinc

No claim being made to the exclusive use of the words "New Jersey" or "Zinc" or "Co." as trade-marks or parts of trade-marks when used alone or in other arrangements than shown in the drawing.

Particular description of goods.—Zinc Oxid Used in the Manufacture of Inks.
Claims use since May 15, 1917.

Ser. No. 138,180. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NEW JERSEY ZINC COMPANY, New York, N. Y. Filed Oct. 11, 1920.

New Jersey Zinc

No claim being made to the exclusive use of the words "New Jersey" or "Zinc" or "Co." as trade-marks or parts of trade-marks when used alone or in other arrangements than shown in the drawing.

Particular description of goods.—Sulfuric Acid, Hydrochloric Acid, Zinc Stearate, Zinc Sulfate, Zinc Chlorid, Zinc Oxid (Used in Making Face-Powders and Toilet Preparations, in Making Zinc Sulfate, Zinc Chlorid, Zinc Stearate, &c., and as a Filler for Rubber, Linoleum, &c.;) Leaded Zinc Oxid, (Used in Making Zinc Sulfate and as a Filler for Rubber, Linoleum, &c.;) Zinc-Dust, (Used in the Manufacture of Dyes and as a Reducing Agent in the Precipitation of Gold and Silver from Cyanid Solutions;) Lithopone, (Used in the Manufacture of Linoleum, &c.,) and Salt Cake.
Claims use since May 15, 1917.

Ser. No. 138,181. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE NEW JERSEY ZINC COMPANY, New York, N. Y. Filed Oct. 11, 1920.

New Jersey Zinc

No claim being made to the exclusive use of the words "New Jersey" or "Zinc" or "Co." as trade-marks or parts of trade-marks when used alone or in other arrangements than shown in the drawing.

Particular description of goods.—Slab-Zinc, (Spelter;) Zinc Plates, Zinc Sheets, Zinc Strips, Zinc Wire, Zinc Bars, Zinc Rods, Mossy Zinc, Chemically-Pure Stick-Zinc, Zinc-Dust, (Blue Powder,) and Spiegeleisen.
Claims use since May 15, 1917.

Ser. No. 138,471. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & SANBORN, Boston, Mass. Filed Oct. 19, 1920.

BUFFALO BRAND

No claim is made for the word "Brand" apart from the other features of the trade-mark shown in the drawing.

Particular description of goods.—Coffee.
Claims use since Aug. 20, 1920.

Ser. No. 138,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOOSE-WILES BISCUIT COMPANY, Kansas City, Mo. Filed Oct. 19, 1920.

DARDANELLA

Particular description of goods.—Candy.
Claims use since Feb. 28, 1920.

Ser. No. 138,570. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HALL & RUCKEL, New York, N. Y. Filed Oct. 20, 1920. Under ten-year proviso.

THE ALLISTON OINTMENT

Particular description of goods.—An Ointment for Use in the Treatment of Acute Pains, Amenorrhea, Apoplexy, Ague, Colic, Bronchitis, Bruises, Burns, Cancers, Catarrh, Cholera Morbus; Chapped Hands, Feet, Lips, &c.; Chilblains, Chlorosis, Colds, Coughs, Consumption, Constipation, Corns, Croup, Cramps, Convulsions, Cutaneous Eruptions, Contracted Sinews, Diabetes, Diarrhea, Diseases of Children, Diseases of the Eyes and Ears, Dropsy, Dizziness, Dyspepsia, Dysentery, Epilepsy, Erysipelas, Fevers, Felon, Flatulence, Fistula, Fluor Albus, General Debility, Gout, Gravel, Gross Surface, Ganglious Sinews, Headache, Heartburn, Hiccough, Hysterics, Incontinence of Urine, Inflammation, Influenza, Jaundice, Lethargy, Lockjaw, Liver Complaint, Measles, Mumps, Nervous Diseases, Nettle-Rash, Neuralgia, Night-Sweat, Palpitation of the Heart, Piles, Paralysis, Pleurisy, Prolapsus Ani, Prolapsus Uteri, Quinsy, Rickets, Ringworm, Rheumatism, Ruptures, Salt-Rheum, Scalds, Scrofula, Scarlet Fever, Scurvy, Smallpox, Spinal Diseases, Sprains, Stomach Complaints, St. Vitus's Dance, Swollen or Broken Breasts, Toothache, Turn of Life, Tumors, Ulcers, Vomiting, Water-Brash, Warts, Wens, Worms, Wounds, and White wellings.
Claims use since Oct. 21, 1844.

Ser. No. 138,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. METZ LABORATORIES, INC., New York, N. Y. Filed Oct. 20, 1920.

SILVER-SALVARSAN

No exclusive right to the use of the word "Silver" is claimed.

Particular description of goods.—A Remedy Against Syphilis, Sleeping-Sickness, Trypanosomiasis, and other Tropical Infectious Diseases.
Claims use since Sept. 9, 1920.

Ser. No. 138,629. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JAMES G. BAIN, Helena, Mont. Filed Oct. 21, 1920.

IDEAL HEAT

Particular description of goods.—Parts Used in Steam-Heating Systems—Namely, Inlet-Valves, Return-Line Valves, Receivers Placed in Return-Line to Allow Water of Condensation to Return to the Boiler But to Prevent Said Water from Escaping to the Atmosphere, Eliminators Placed Upon Such Receivers to Allow Air to Escape from the System But Prevent Escape of Steam, and Drip-Traps.
Claims use since January, 1916.

Ser. No. 138,634. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ARTHUR FRANKENSTEIN, New York, N. Y. Filed Oct. 21, 1920.

"HITCH"

Particular description of goods.—Military Game-Board.
Claims use since Sept. 1, 1920.

Ser. No. 138,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED W. CLEMENTS, Rochester, N. Y. Filed Oct. 22, 1920.

MOONE'S EMERALD OIL

No claim being made to the word "Oil" apart from the mark as shown.

Particular description of goods.—Antiseptic, Germicidal, and Anodyne Oil.
Claims use since January, 1913.

Ser. No. 138,699. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. F. ZALOOM & Co., New York, N. Y. Filed Oct. 22, 1920.



Particular description of goods.—Salted Pistachio-Nuts.
Claims use since July, 1918.

Ser. No. 138,758. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EASTMAN CHEMICAL CO., Cincinnati, Ohio. Filed Oct. 25, 1920.



Consists of the representation of a green Greek cross, together with the word "Eastman" and the words "Safety Cross," the latter appearing in green color in an arc above the cross and the whole being inclosed in a circle or girdle of green color. The word "Salve" also appears in said green color below the cross, within said circle. The word "Eastman" appears in both vertical and horizontal array in white plain block capital letters on the intersecting or centrally-crossing arms of the said green Greek cross, the letter "T" of that word being in the center of the cross and the central letter, in common, of the intersecting arrangement of the word. The black shading on the drawing indicates the said green color of the Greek cross, of the circle that girdles it, and of all the words excepting "Eastman," which alone is in white letters and as above fully noted. No claim is made to the exclusive use of the word "Eastman" apart from the mark as shown in the drawing. Neither is the word "Salve" claimed apart from the mark appearing on the drawing and on the specimens filed herein.

Particular description of goods.—A Medical Compound in Salve Form Used in the Treating and Healing of Boils, Felons, Blood-Poison, Cuts, Bruises, Burns, Frost-Bites, and Skin Ailments Generally.
Claims use since Sept. 6, 1920.

Ser. No. 138,793. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) UNIVERSAL SPECTACLE CO., New York, N. Y. Filed Oct. 25, 1920.



No claim being made to the words "Trade Mark" or to the representation of the eyeglasses apart from the mark shown.

Particular description of goods.—Spectacles and Thermometers.
Claims use since July 26, 1920.

Ser. No. 138,794. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) UNIVERSAL SPECTACLE CO., New York, N. Y. Filed Oct. 25, 1920.



No claim being made to the words "Trade Mark" and "Sunproof" apart from the mark shown.

Particular description of goods.—Spectacles and Goggles.
Claims use since July 26, 1920.

Ser. No. 138,919. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUIS NEKRITZ, Brooklyn, N. Y. Filed Oct. 28, 1920.

NEK-RITZ'S

Particular description of goods.—Varnishes.
Claims use since Apr. 15, 1920.

Ser. No. 139,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 30, 1920.

Idle Hour

Particular description of goods.—Candies.
Claims use since July 16, 1920.

Ser. No. 139,100. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) "TURMAC" TURKISH MACEDONIAN TOBACCO COMPANY, Arnhem, Netherlands. Filed Nov. 2, 1920.

TURMAC

Particular description of goods.—Cigarette-Papers.
Claims use since Apr. 29, 1920.

Ser. No. 139,129. (CLASS 39. CLOTHING.) SAMUEL RUBIN, New York, N. Y. Filed Nov. 3, 1920.

TIP-TOP

Particular description of goods.—Garters, Armbands, Suspenders.
Claims use since 1912.

Ser. No. 139,178. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT H. SMITH COMPANY, New York, N. Y. Filed Nov. 4, 1920.



Is colored gold.

Particular description of goods.—Toilet Waters, Face-Powders, Perfumes, Extracts, Sachet; Eau Vegetale, a Preparation Used to Soothe and Perfume the Skin After Shaving; Rouge, Lip-Sticks, Face-Creams, Brilliantine, Eyebrow-Pencils, and Talc Powder.
Claims use since Nov. 1, 1903.

Ser. No. 139,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LLOYD GARRETSON CO., Yakima, Wash. Filed Nov. 6, 1920.



Particular description of goods.—Fresh Deciduous Fruits.
Claims use since Sept. 19, 1919.

Ser. No. 139,359. (CLASS 39. CLOTHING.) ARTHUR I. LUDWIG, New York, N. Y. Filed Nov. 8, 1920.



Particular description of goods.—Clothing—Namely, Stockings and Socks for Men, Women, and Children.
Claims use since June 26, 1919.

Ser. No. 139,484. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 10, 1920.

Lady-Fair

Particular description of goods.—Cotton Piece Goods—Namely, Voile.
Claims use since Sept. 22, 1920.

Ser. No. 139,523. (CLASS 27. HOROLOGICAL INSTRUMENTS.) B. GUTTER & SONS, New York, N. Y. Filed Nov. 11, 1920.

WINALL

Particular description of goods.—Watches, Watchcases, and Watch-Movements.
Claims use since Apr. 1, 1920.

Ser. No. 139,530. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SIGSBIE GUTTER, New York, N. Y. Filed Nov. 11, 1920.

DIA-GEM

Particular description of goods.—White-Sapphire Finger-Rings.
Claims use since July 1, 1920.

Ser. No. 139,563. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CAMDEN MANUFACTURING COMPANY, INC., Columbia, Pa. Filed Nov. 12, 1920.

"CAMCO"

Particular description of goods.—Pipe, Bolt, and Casing Dies, Reamers, Milling-Cutters, Taps, and Chasers Made and Recut for All Makes of Pipe-Threading Machines.
Claims use since about the middle of year 1915.

Ser. No. 139,565. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ANDREW JAY CROSS, New York, N. Y. Filed Nov. 12, 1920.

"C-P"

Particular description of goods.—Ophthalmic Lenses.
Claims use since 1913.

Ser. No. 139,791. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTASI PERFUMERY CO. INC., New York, N. Y. Filed Nov. 18, 1920.

ESTASI

Particular description of goods.—Perfume, Toilet Water, Sachet, Cold-Cream, Vanishing Cream, Face-Powder, Compact Powder, Rouge, Lip-Sticks, Eyebrow-Pencils, Talcum Powder, and Liquid Dressing for the Hair of the Brilliantine Type, the Above Articles Being Packed Either Separately or in Combination in What is Known as Vanity-Cases or Combination-Cases.
Claims use since about Feb. 1, 1920.

Ser. No. 140,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. A. BAKER, INC., Sumner, Wash. Filed Nov. 23, 1920.

TOLO

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since May 1, 1920.

Ser. No. 140,145. (CLASS 39. CLOTHING.) GEORGE A. STETSON, Boston, Mass. Filed Nov. 24, 1920.

FTCo

Particular description of goods.—Heel and Arch Cushions for Shoes.
Claims use since about Nov. 8, 1920.

Ser. No. 140,157. (CLASS 15. OILS AND GREASES.) AMBOY PRODUCTS CO., INC., Chicago, Ill. Filed Nov. 26, 1920.

BRITE MAWNIN

Particular description of goods.—Machine-Oil.
Claims use since Jan. 2, 1919.

Ser. No. 140,290. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

IDEAL

Particular description of goods.—Sheeting, Sheets, and Pillow-Cases.
Claims use since 1906.

Ser. No. 140,310. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

Puritan"C"

Particular description of goods.—Piece Goods—Namely, Muslin.
Claims use since 1906.

Ser. No. 140,325. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOWARD FOLKE, Los Angeles, Calif. Filed Nov. 27, 1920.

ADRIATIC



Particular description of goods.—A Hair-Grower.
Claims use since May 1, 1920.

Ser. No. 140,334. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) IOWA SOAP COMPANY, Burlington, Iowa. Filed Nov. 27, 1920.

WHITE HOUSE

Particular description of goods.—Soap for Bath and Toilet.
Claims use since Sept. 6, 1920.

Ser. No. 140,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALLIE B. FIELDS, Hampton, Va. Filed Nov. 30, 1920.



Consisting of my portrait.
Particular description of goods.—Hair-Grower, Vegetable Shampoo, and Tetter-Balm.
Claims use since about Nov. 21, 1920.

Ser. No. 140,682. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD VARNISH WORKS, New York, N. Y. Filed Dec. 6, 1920.

KOVERWALL

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Varnishes, Paint Enamels, Stains, Japans, and Fillers.
Claims use since November, 1920.

Ser. No. 140,771. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN ASPHALT ROOF CORPORATION, Kansas City, Mo. Filed Dec. 8, 1920.



THE OLD AMERICAN

Particular description of goods.—Ready-Mixed Paints.
Claims use since Sept. 1, 1920.

Ser. No. 140,789. (CLASS 37. PAPER AND STATIONERY.) DUNN PEN COMPANY, INC., New York, N. Y. Filed Dec. 8, 1920.



The drawing is lined to indicate that the handle of the filling-pump of the pen is red. The trade-mark consists in such red pump-handle, no claim being made to the representation of a fountain-pen without the red pump-handle.
Particular description of goods.—Fountain-Pens.
Claims use since September, 1920.

Ser. No. 140,797. (CLASS 39. CLOTHING.) KUH BROTHERS, San Francisco, Calif. Filed Dec. 8, 1920.

Jim Dandy

Consists of the words "Jim Dandy."
Particular description of goods.—Boys' Shirts, Blouses, Wash-Suits, Play-Garments, and Rompers.
Claims use since Oct. 1, 1918.

Ser. No. 140,812. (CLASS 39. CLOTHING.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Dec. 8, 1920.

GLOSSILLA

Particular description of goods.—Crocheted and Knitted Slippers and Shoes for Men, Women, Children, and Infants; Shoes and Slippers Composed in Whole or in Part of Textile Fabrics, Such as Cotton, Linen, Woolen, Worsted, or Silk Fabrics or a Combination of Two or More of These Fabrics; Bootees, Soles and Linings for Slippers or Shoes, Dresses, Suits, Vests, Vestees, Coats, Waists, Caps and Hats for Women and Children, Rompers, Lingerie, Brassières, Corset-Covers, Nightgowns, So-Called Envelop Combinations, Combination Corset-Covers and Petticoats, Negligées, Boudoir-Caps, Bodices, Petticoats, Chemises, Drawers, Combing-Jackets, Combing-Sacks, Combing-Towels, Aprons, Sweaters, Wraps, Jackets, Shawls, Neckties, Women's Neckwear, Fabric Gloves, and Hosiery. All of the Above Either Completed or Partly Completed or Stamped, Cut, or Otherwise Prepared for Completion by the Customer.
Claims use since about June, 1908.

Ser. No. 140,855. (CLASS 4. ABRASIVE, DETEBGENT, AND POLISHING MATERIALS.) CHAS. W. YOUNG & CO., Philadelphia, Pa. Filed Dec. 9, 1920.

TERNSHOO

Particular description of goods.—A Compound for Rendering Leather Soft, Flexible, and Pliable.
Claims use since Nov. 26, 1920.

Ser. No. 141,010. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 13, 1920.

CASTLE

The lining of the drawing is to indicate shading and the appearance of the mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since Sept. 15, 1914.

Ser. No. 141,061. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE CEDA-ODA COMPANY, Franklin Park, Mass. Filed Dec. 14, 1920.

CEDA-ODA

Particular description of goods.—A Polish for Furniture, Floors, Pianos, Automobiles, or Any Waxed or Varnished Surface.
Claims use since June, 1920.

Ser. No. 141,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS G. BURNS, Seattle, Wash. Filed Dec. 15, 1920.



The diagonal lines of the accompanying drawing represent a plaid of red and blue on a yellow ground. No claim is made to the words "Butter Scotch" in the trade-mark apart from the mark as shown as a whole.
Particular description of goods.—Candy.
Claims use since Nov. 1, 1920.

Ser. No. 141,118. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KELSALL & KEMP LIMITED, The Butts, Rochdale, England. Filed Dec. 15, 1920.

THE DOCTOR

Particular description of goods.—Flannel Shirtings and other Similar Cloths and Stuffs in the Piece Made Wholly of Wool or of Material Which Wool Predominates.
Claims use since Mar. 11, 1914.

Ser. No. 141,126. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTHONY OVERTON, Chicago, Ill. Filed Dec. 15, 1920.

L'AZURMERE

Particular description of goods.—Talcum Powder, Face-Cream, Hair-Powders, Hair-Oils, Hair-Tonic, Shampoo, Cream for Use After Shaving, Rouge, and Depilatory.
Claims use since Dec. 6, 1920.

Ser. No. 141,159. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DILLING & COMPANY, Indianapolis, Ind. Filed Dec. 16, 1920.

Katy-Did

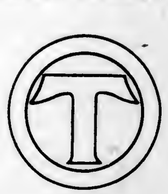
Particular description of goods.—Candy Kisses.
Claims use since February, 1908.

Ser. No. 141,209. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BEAVER VARNISH COMPANY, INC., Buffalo, N. Y. Filed Dec. 17, 1920.



Particular description of goods.—Mixed Paints in Oil, Paint Enamels, Varnishes, Waterproof Paint-Coatings, Japans, Wood-Stains, Lacquers, Wood-Fillers, and Colors in Oil.
Claims use since Sept. 1, 1920.

Ser. No. 141,283. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TRANTER MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Dec. 18, 1920.



Particular description of goods.—Steam-Pumps, Reciprocating Pumps, Triplex Pumps, Centrifugal Pumps, Rotary Pumps, Deep-Well Pumps, Jet-Pumps; Woodworking Machinery—Namely, Power-Driven Circular-Saw Machines, Power-Driven Band-Saw Machines, Power-Driven Wood-Molding Machines, Power-Driven Wood-Planing Machines; Iron-Working Machinery—Namely, Power-Driven Drill-Presses, Power-Driven Lathes, Power-Driven Shapers, Power-Driven Milling-Machines; Internal-Combustion Engines, Steam-Engines, Farm-Tractors, Tractor-Plows, Grain-Grinding Mills, Iron and Steel Shaft-Hangers, and Cast-Iron Shaft-Couplings.
Claims use since about Jan. 15, 1907.

Ser. No. 141,294. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITOL REFINING CO., South Washington, Va. Filed Dec. 20, 1920.

CAPITOL

Particular description of goods.—Cooking-Oils Produced from Cotton-Seed.
Claims use since January, 1914.

Ser. No. 141,299. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. & F. POULTRY REMEDY CO., Humeston, Iowa. Filed Dec. 20, 1920.



Particular description of goods.—Poultry Remedies, Comprising a Tonic and Conditioner for Increasing the Production of Eggs, a Cholera Remedy for Poultry, a Roup Remedy, a Chicken-Pox Remedy, a White-Diarrhea Remedy, and a Disinfectant Prepared Especially for Poultry Diseases.
Claims use since Mar. 4, 1920.

Ser. No. 141,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITOL REFINING CO., South Washington, Va. Filed Dec. 21, 1920.

CAPRECO

Particular description of goods.—Salad-Oils Produced from Cotton-Seed.
Claims use since June, 1914.

Ser. No. 141,404. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WHITE TAR ANILINE CORP., New York, N. Y. Filed Dec. 2, 1920.

WHITAR

Particular description of goods.—Dyestuffs and Coal-Tar Intermediates.
Claims use since Nov. 19, 1920.

Ser. No. 141,437. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOCIETE ANONYME PARFUMERIE RAMSES, Paris, France. Filed Dec. 22, 1920.

RAMSÈS

Particular description of goods.—Toilet Soaps, Perfumed Toilet Soaps, and Household Soaps.
Claims use since May 30, 1919.

Ser. No. 141,441. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE VAPORETOR CORPORATION, Milwaukee, Wis. Filed Dec. 22, 1920.

CALORETOR

Consists of the word "Caloretor."
Particular description of goods.—Carbureters and Vaporizers for Internal-Combustion Engines.
Claims use since about Oct. 10, 1920.

Ser. No. 141,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT SUTER, Baltimore, Md. Filed Dec. 23, 1920.



The picture is that of the applicant.
Particular description of goods.—Cough-Drops.
Claims use since Apr. 1, 1920.

Ser. No. 141,661. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BINNEY & SMITH COMPANY, New York, N. Y. Filed Dec. 30, 1920.

MICRONEX

Consisting of the word "Micronex."
Particular description of goods.—A Gas-Black and Carbon-Black.
Claims use since Dec. 1, 1920.

Ser. No. 141,663. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN HART BRITTAIN, INC., New York, N. Y. Filed Dec. 30, 1920.



No claim being made to the words "For the Scalp" and "For the Hair."
Particular description of goods.—Hair-Tonic for the Treatment of Diseases of the Hair and Scalp.
Claims use since Apr. 1, 1919.

Ser. No. 141,678. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGARET GAST, New York, N. Y. Filed Dec. 30, 1920.

GAST-O-PINE

Particular description of goods.—Liniments for Rheumatic Affections and other Body-Pains.
Claims use since about Dec. 10, 1920.

Ser. No. 141,698. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH-FRANK PACKING CO., Sacramento, Calif. Filed Dec. 30, 1920.



The lining on the drawing indicating red color.
Particular description of goods.—Canned Fruits, Canned Fruit Salad, Canned Vegetables, and Dried Fruits.
Claims use since Dec. 22, 1919.

Ser. No. 141,711. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET & TIN PLATE COMPANY, Pittsburgh, Pa. Filed Dec. 31, 1920.

ARROW BRAND

No claim to the registration of the word "Brand" being made herein apart from the mark shown in the drawing.

Particular description of goods.—Black Sheets of Rolled Soft Steel.

Claims use since Nov. 20, 1920.

Ser. No. 141,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH HENRY KARP, New York, N. Y. Filed Dec. 31, 1920.

Noble-Heart

Particular description of goods.—Cold-Cream, Vanishing Cream, Massage-Cream, Tooth-Paste, Face-Powder, Talcum Powder, Complexion-Powder, Tooth-Powder, Perfume, Toilet Water, Lotions, Witch-Hazel, Sachet-Powder, Lip-Sticks, Rouge, Cosmetics, Hair-Tonic, Glycerin, Rose-Water, Almond-Cream, Astringent, Brilliantine, Bay-Rum, Foot-Powder, and Florida Water.

Claims use since May 1, 1919.

Ser. No. 141,727. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) METROPOLITAN-VICKERS ELECTRICAL CO., LTD., London, England. Filed Dec. 31, 1920.



No claim being made to the letters "E" and "C" appearing thereon.

Particular description of goods.—Electrical Measuring, Indicating, and Recording Meters, Merz Demand-Indicators, Printometers, Rotating Substandards, Ammeters and Voltmeters; Shunts for Use with Electric Measuring, Indicating, and Recording Instruments; Wattmeters, Watt-Hour Meters, Frequency-Meters, Power-Factor Meters, Synchroscopes; Electric Portable Measuring, Indicating, and Recording Instruments; Polarity-Indicators, Telltale-Indicators, Static Ground-Detectors, Static Potential-Indicators, House-Service Meters, Electric Pyrometers, and Portable Testing Instruments.

Claims use since September, 1919.

Ser. No. 141,773. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL J. FLOM, Baltimore, Md. Filed Jan. 3, 1921.

ALBUM-OL

The lining shown in the drawing being for shade purposes only.

Particular description of goods.—A Nerve and Blood Tonic.

Claims use since June 15, 1920.

Ser. No. 141,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PEROLIN COMPANY OF AMERICA, Chicago, Ill. Filed Jan. 3, 1921.



No claim is made to the words "The Water System Treatment" apart from the mark shown on the drawing.

Particular description of goods.—A Compound or Preparation for the Elimination and Prevention of Rust, Corrrosion, Pitting, Clogging, and Discoloration of Water in Water-Supply and Hot-Water Systems and Maintaining the Water System in a Clean Condition.

Claims use since Oct. 1, 1920.

Ser. No. 141,802. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PRECISION THERMOMETER & INSTRUMENT COMPANY, Philadelphia, Pa. Filed Jan. 3, 1921.

PRINCO

Particular description of goods.—Sphygmomanometers, Thermometers, Hydrometers, Hygrometers, Barometers, and Precision Mercurial and Diaphragm Pressure and Draft Gages.

Claims use since October, 1914.

Ser. No. 141,825. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDERSON D. BROWN, Chicago, Ill. Filed Jan. 4, 1921.

CAFE MARROW

Particular description of goods.—Concentrated Coffee Essence.

Claims use since Feb. 2, 1920.

Ser. No. 141,837. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HASKINS BROS. & COMPANY, Sioux City, Iowa, and Omaha, Nebr. Filed Jan. 4, 1921.

VOLCANIC

Particular description of goods.—Toilet Soap.

Claims use since 1892.

Ser. No. 141,867. (CLASS 39. (CLOTHING.) OLD COLONY SHOE COMPANY, Brockton, Mass. Filed Jan. 5, 1921.

Ocolco

Particular description of goods.—Boots and Shoes of Leather and Combinations of Leather, Fabric, and Rubber.

Claims use since Dec. 21, 1920.

Ser. No. 141,887. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U-RUB-IT CHEMICAL CO., Philadelphia, Pa. Filed Jan. 5, 1921.

U-RUB-IT

Comprising a substantially-rectangular field composed of upper and lower red panels with an intermediate white panel, on which latter appears the word "U-Rub-It" in blue.

Particular description of goods.—A Preparation for Use in the Treatment of Pneumonia, Rheumatism, Headache, Toothache, Earache, Stomachache, Backache, Cramps, and other Congestive Pains, Cold in the Head, Hay-Fever, Bronchitis, Asthma, and other Diseases of the Respiratory Organs, as Well as for Frost-Bites.

Claims use since May 1, 1920.

Ser. No. 141,915. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y. Filed Jan. 6, 1921.



The picture in the mark being fanciful, no claim being made to the exclusive use of the words "Trade Mark" appearing in Chinese and the English words "Buffalo, N. Y., U. S. A., and London, England" apart from the mark shown in the drawing.

Particular description of goods.—A Salve for External Application in the Treatment of Inflammations and Eruptions of the Skin and in the Treatment of Croup, Sore Throat, Catarrh, and Like Afflictions Involving or Resulting from Congestion.

Claims use since Oct. 20, 1920.

Ser. No. 141,942. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AARON BURDWISE, Baltimore, Md. Filed Jan. 7, 1921.

Testimonial

Particular description of goods.—Harmonicas or Mouth-Organs, Mandolins, Guitars, Banjos, Ukuleles, Cornets, Clarinets, Trombones, Saxophones, Flutes, Drums and Violins.

Claims use since May, 1920.

Ser. No. 141,943. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AARON BURDWISE, Baltimore, Md. Filed Jan. 7, 1921.



Any right whatever to the word "Harmonica" as shown in the drawing is hereby disclaimed.

Particular description of goods.—Harmonicas or Mouth-Organs, Accordions, Mandolins, Guitars, Banjos, Ukuleles, Cornets, Clarinets, Trombones, Saxophones, Flutes, Drums, and Violins.

Claims use since May, 1920.

Ser. No. 141,944. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CONVERSE TREATMENT CO., Columbus, Ohio. Filed Jan. 7, 1921. Under ten-year proviso.

CONVERSE TREATMENT

Particular description of goods.—A Medicine Intended for Use in Epilepsy and other Nervous Disorders.

Claims use since Jan. 1, 1894.

Ser. No. 141,975. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Jan. 8, 1921.

Little Giant

Particular description of goods.—Screw-Cutting Dies, Taps; Tapping Attachments, (Devices for Attachment to Machines for Receiving and Operating Taps;) Diestocks, Tap-Wrenches; Screw-Plates, (Sets of Dies, Taps, Wrenches, Stocks, and Collets;) Reamers, Drilling-Machines, Metal-Working Drills, Holders for Dies, Mandrels, Pulleys, Counter-Shafts, Bolt-Threaders, Tool-Grinders, Lathes, Pipe-Wrenches, Pipe-Cutters; Receders, (Receding Pipe-Threaders;) Pipe-Vises, and Pipe-Plates.

Claims use since 1876.

Ser. No. 141,977. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Jan. 8, 1921.

LIGHTNING

Particular description of goods.—Screw-Cutting Dies, Taps, Tapping Attachments, Diestocks, Tap-Wrenches; Screw-Plates, (Sets of Dies, Taps, and Accessories;) Reamers, Drilling-Machines, Metal-Working Drills, Holders for Dies, Mandrels, Pulleys, Counter-Shafts, Bolt-Threaders, Cold-Saw Cutting-Off Machines, Tool-Grinders, Lathes, Pipe-Wrenches, Pipe-Cutters; Receders, (Receding Pipe-Threaders;) Pipe-Vises, and Pipe-Plates.

Claims use since July, 1874.

Ser. No. 141,978. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Jan. 8, 1921.

O.K.

Particular description of goods.—Screw-Cutting Dies, Taps, Tapping Attachments, Diestocks, Tap-Wrenches, Screw-Plates, (Sets of Dies, Taps, and Accessories;) Reamers, Metal-Working Drills, Holders for Dies, Mandrels, Pulleys, Counter-Shafts, Bolt-Threaders, Cold-Saw Cutting-Off Machines, Tool-Grinders, Pipe-Wrenches, Pipe-Cutters; Receders, (Receding Pipe-Threaders;) Pipe-Vises, and Pipe-Plates.
Claims use since December, 1912.

Ser. No. 141,979. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Jan. 8, 1921. Under ten-year proviso.

GREEN RIVER

Particular description of goods.—Screw-Cutting Dies, Taps, Tapping Attachments, Diestocks, Tap-Wrenches; Screw-Plates, (Sets of Dies, Taps, and Accessories;) Reamers, Drilling-Machines, Metal-Working Drills, Holders for Dies, Mandrels, Pulleys, Counter-Shafts, Bolt-Threaders, Cold-Saw Cutting-Off Machines, Tool-Grinders, Lathes, Pipe-Wrenches, Pipe-Cutters; Receders, (Receding Pipe-Threaders;) Pipe-Vises, and Pipe-Plates.
Claims use since July, 1874.

Ser. No. 141,980. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Jan. 8, 1921.

GTD

Particular description of goods.—Screw-Cutting Dies, Taps, Tapping Attachments, Diestocks, Tap-Wrenches; Screw-Plates, (Sets of Dies, Taps, and Accessories;) Reamers, Drilling-Machines, Metal-Working Drills, Holders for Dies, Mandrels, Pulleys, Counter-Shafts, Bolt-Threaders, Cold-Saw Cutting-Off Machines, Tool-Grinders, Lathes, Pipe-Wrenches, Pipe-Cutters; Receders, (Receding Pipe-Threaders;) Pipe-Vises, and Pipe-Plates.
Claims use since Oct. 1, 1915.

Ser. No. 141,997. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. M. ROBERTS, Chicago, Ill. Filed Jan. 8, 1921.



The trade-mark is a portrait of the applicant.
Particular description of goods.—A Medical Preparation for Use in the Treatment of Asthma.
Claims use since Dec. 21, 1920.

Ser. No. 142,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AMERICAN AUTOMOBILE ACCESSORIES COMPANY, Cincinnati, Ohio. Filed Jan. 10, 1921.

KICK

Particular description of goods.—A Chemical Preparation to Increase the Efficiency and Power of Gasolene.
Claims use since on or about Mar. 12, 1920.

Ser. No. 142,031. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PAINT SPECIALTIES CORPORATION, New York, N. Y. Filed Jan. 10, 1921.

PASCO

Particular description of goods.—Ready-Mixed Paints.
Claims use since Nov. 10, 1920.

Ser. No. 142,063. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FREE-FLOATING POPPET VALVE COMPANY, Salt Lake City, Utah. Filed Jan. 11, 1921.



Particular description of goods.—Internal-Combustion Engines and Parts Thereof.
Claims use since July 15, 1920.

Ser. No. 142,085. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HYMAN MILLER, Boston, Mass. Filed Jan. 11, 1921.

DR. MILLER'S
SPECIAL FOOT POWDER



The portrait shown in the drawing and specimens filed is that of the applicant, Hyman Miller. No claim is made to exclusive right to use of the words "Special Foot Powder" apart from the mark shown in the drawing.
Particular description of goods.—Foot-Powder.
Claims use since July 1, 1920.

Ser. No. 142,086. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MANGANO MANUFACTURING COMPANY, Rahway, N. J. Filed Jan. 11, 1921.

UNIFORMITY · QUALITY · STRENGTH

No claim is made to the words "Uniformity," "Quality," and "Strength" apart from the mark shown in the drawing.
Particular description of goods.—Dry Colors, Which Colors are Adapted for Use and Used in the Manufacture of Paints and Painters' Materials.
Claims use since Sept. 30, 1919.

Ser. No. 142,117. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VICTOR SHOE MACHINERY COMPANY, Lynn, Mass. Filed Jan. 11, 1921.

V.S.M.C.
VICTOR

Particular description of goods.—Shoe-Sewing Machines, Shoe-Repair Outfits, Shoe-Finishing Machines, Rough-Rounding Machines, Channeling-Machines, Cutter-Grinders, Nailers, Burnishing-Machines, Scouring-Wheel-Actuating Machines, Sanding-Roll-Actuating Machines, Sanding-Wheel-Actuating Machines, and Skiving-Machines.
Claims use since Oct. 1, 1912.

Ser. No. 142,155. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LA FRANCE LABORATORIES, INC., New York, N. Y. Filed Jan. 12, 1921.

HENNAFOAM

Particular description of goods.—A Liquid Shampoo.
Claims use since about Dec. 30, 1920.

Ser. No. 142,178. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. F. SEVERA CO., Cedar Rapids, Iowa. Filed Jan. 12, 1921.

Gothardol

Particular description of goods.—A Liniment for External Application for the Treatment of Rheumatic and Neuralgic Pains, Sprains, Bruises, Swellings, Sore Muscles, Muscular Cramps, and Aching and Stiff Joints.
Claims use since Oct. 1, 1920.

Ser. No. 142,353. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES MUNTER, New York, N. Y. Filed Jan. 17, 1921.

NULIFE

Particular description of goods.—Tooth-Paste.
Claims use since Oct. 1, 1920.

Ser. No. 142,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES H MILLER, Dayton, Ohio. Filed Jan. 17, 1921.

MILCO

Particular description of goods.—Stomach-Salts.
Claims use since on or about Jan. 1, 1920.

Ser. No. 142,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROTO CHEMICAL CO., INC., New York, N. Y. Filed Jan. 17, 1921.

Proto-Mal

Particular description of goods.—Galactagogue Preparations.
Claims use since Dec. 28, 1920.

Ser. No. 142,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB N. WOLODARSKY, New Haven, Conn. Filed Jan. 17, 1921.

ORALKA

Particular description of goods.—Dental Cream.
Claims use since July 1, 1918.

Ser. No. 142,414. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HERMAN D. STEEL, Philadelphia, Pa. Filed Jan. 18, 1921.

SWISS JEWEL CO
LOCARNO

Exclusive right being disclaimed apart from the remainder of the drawing as shown to "Swiss Jewel Co. S. A., Locarno (Suisse), Swiss Scientific" and to the representation of a jewel.
Particular description of goods.—Meter, Watch, and Industrial Jewels and Synthetic and Natural Cut Stones.
Claims use since about Jan. 1, 1918.

Ser. No. 142,416. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

SODICATE

Particular description of goods.—Silicate of Soda.
Claims use since Mar. 12, 1920.

Ser. No. 142,419. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.



Particular description of goods.—Razors, Scissors, and Sprayers for Insecticides, Disinfectants, and Germicides.
Claims use since Dec. 15, 1919.

Ser. No. 142,424. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

KREFECTO

Particular description of goods.—Disinfectant, Insecticide, and Deodorizer.
Claims use since Feb. 4, 1920.

Ser. No. 142,425. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

FLY-NO

Particular description of goods.—Disinfectant and Insecticide.
Claims use since Mar. 6, 1920.

Ser. No. 142,427. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

GLYCO-BORINE

Particular description of goods.—Gargle and Nasal Spray.
Claims use since Jan. 1, 1905.

Ser. No. 142,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

VOLMINE

Particular description of goods.—A Medical Preparation for Relief of Colds, Croup, Bronchitis, Whooping-Cough, Pneumonia, Catarrh, Tonsilitis, Asthma, Rheumatism, Piles, Burns, Sprains.
Claims use since Sept. 1, 1919.

Ser. No. 142,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

THYBORINE

Particular description of goods.—Gargle, Mouth-Wash, and Nasal Spray.
Claims use since Jan. 1, 1905.

Ser. No. 142,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED RETAIL CHEMISTS CORPORATION, New York, N. Y. Filed Jan. 18, 1921.



Particular description of goods.—Beef, Iron, and Wine, White-Pine Compound Cough-Syrup, Children's Cough-Honey; a Penetrating Liniment for External Use for the Relief of Sprains, Bruises, Scalds, Neuralgia, Rheumatism, Lameness, Stings of Insects; Castor-Oil, a Gargle for Relief of Tonsilitis and Inflammatory Sore Throat; Lauer's Cough Remedy for Coughs, Colds, Hoarseness, and Bronchial Troubles; White-Pine Cough-Syrup with Tar, Syrup of Hypophosphites; Iron Phosphate, Quinin, and Strychnin; Cod-Liver Extract with Malt, Wild Cherry, and Hypophosphites; a Solution of Peptonized Iron and Manganese Compound, Syrup of Figs and Senna Compound.
Claims use since Jan. 1, 1920.

Ser. No. 142,433. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) H. WOLFF & CO., New York, N. Y. Filed Jan. 18, 1921.

VICTORIA

Particular description of goods.—Beaded Bags.
Claims use since Nov. 10, 1920.

Ser. No. 142,434. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLYDE COLLINS COMPANY, Memphis, Tenn. Filed Jan. 19, 1921.

CLY-CO

Particular description of goods.—Tonic, a Medicine Preparation to be Taken for Chills, Fever, Biliousness, Indigestion, Malaria, Bad Colds, and General Rundown Condition.
Claims use since about Oct. 1, 1920.

Ser. No. 142,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CALCO CHEMICAL COMPANY, Boundbrook, N. J. Filed Jan. 19, 1921.

SALICAINE

Particular description of goods.—A Medicinal Preparation for Use as a Local Anesthetic for All Purposes for Which Procain (Monohydrochlorid of Para-Amido-Benzoyl-Diethyl-Amino-Ethanol) is Used and for Which Anesthesin (Ethyl Ester of Paraminobenzoic Acid) is Used.
Claims use since about Apr. 5, 1920.

Ser. No. 142,449. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. A. PEARSON, Greensboro, Ga. Filed Jan. 19, 1921.



Particular description of goods.—A Medicine for Treatment of Gonorrhea, Syphilis, Blood Medicine for Females, and Salve for Treatment of Syphilitic Sores.
Claims use since Jan. 1, 1920.

Ser. No. 142,455. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SCALP GERMICIDE COMPANY, Youngstown, Ohio. Filed Jan. 19, 1921.



Particular description of goods.—A Germicidal Preparation Which Kills the Germs That Destroy the Hair, Promotes a Full Growth of Hair, Prevents Falling Hair and Itching Scalp, and Eradicates Dandruff.
Claims use since Dec. 10, 1920.

Ser. No. 142,533. (CLASS 39. CLOTHING.) W. H. ROGERS CO., Chicago, Ill. Filed Jan. 20, 1921.



The representation of the goods and the words "Yoke Front" are disclaimed except in conjunction with the mark as shown.
Particular description of goods.—Ladies' Ready-to-Wear Petticoats, Skirts, and Bloomers.
Claims use since Aug. 1, 1920.

Ser. No. 142,554. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, INCORPORATED, New York, N. Y. Filed Jan. 21, 1921.

CAPPI

Particular description of goods.—Brilliantine, Face-Powder, Face-Cream, Toilet Water, Perfume, Sachet, and Talcum Powder.
Claims use since Jan. 3, 1921.

Ser. No. 142,576. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE AMERICAN PIN COMPANY, Waterbury, Conn. Filed Jan. 22, 1921.

Puritan

Particular description of goods.—Pins, Safety-Pins, and Hooks and Eyes.
Claims use since on or about Jan. 1, 1892.

Ser. No. 142,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KITCHELL M. BOORMAN, New York, N. Y. Filed Jan. 22, 1921.

JASPY

Particular description of goods.—Perfumes and Face-Powders.
Claims use since Nov. 26, 1920.

Ser. No. 142,582. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BUSER AND COMPANY, Niederdorf, Switzerland. Filed Jan. 22, 1921.

ESTA

Particular description of goods.—Watches, Watch Parts, and Watchworks.
Claims use since October, 1918.

Ser. No. 142,600. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921.

MAYBOURNE

Particular description of goods.—Cotton Piece Goods.
Claims use since June, 1917.

Ser. No. 142,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J-R PRODUCTS COMPANY, Cincinnati, Ohio. Filed Jan. 22, 1921.

Aero-Gas

No claim being made to the word "Gas" except in association with the mark "Aero" as shown.
Particular description of goods.—A Chemical Preparation for Intensifying Gasolene for Fuel for Motor-Cars.
Claims use since May 1, 1919.

Ser. No. 142,668. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHYSICIAN'S DRUG MANUFACTURING ASSOCIATION, Wilmington, Del., and Springfield, Mass. Filed Jan. 22, 1921.



Particular description of goods.—Alkaline Antiseptic, Tonic Laxative, and Nerve-Tonic.
Claims use since Jan. 15, 1921.

Ser. No. 142,686. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. R. ARNOLD & Co., New York, N. Y. Filed Jan. 24, 1921.

FRAISIA

Consists of the word "Fraisia."
Particular description of goods.—Rouge.
Claims use since Dec. 20, 1920.

Ser. No. 142,703. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE V. GROSS & COMPANY, New York, N. Y. Filed Jan. 24, 1921.

ROSE CENTIFOLIA

Particular description of goods.—Perfume-Oil Compounded and Blended.
Claims use since about Jan. 1, 1910.

Ser. No. 142,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY J. SMITH, Utica, N. Y. Filed Jan. 24, 1921.

E-Z-BOS

Particular description of goods.—Fly, Insect, and Germ Destroyer.
Claims use since Jan. 14, 1921.

Ser. No. 142,739. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINO MEDICAL CO. INC., New York, N. Y. Filed Jan. 24, 1921.



Lined to indicate red.
Particular description of goods.—Liquid Medicines Used as Tonics and as Mild Laxatives.
Claims use since September, 1920.

Ser. No. 142,742. (CLASS 38. PRINTS AND PUBLICATIONS.) LEVY LEGG WARREN, Louisville, Ky. Filed Jan. 24, 1921.

HOME CIRCLE

Particular description of goods.—Periodical Issued Monthly.
Claims use since December, 1920.

Ser. No. 142,762. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NIAGARA MANUFACTURING COMPANY, Lucas, Ohio. Filed Jan. 25, 1921.

BOND

Particular description of goods.—Wrenches.
Claims use since Dec. 22, 1920.

Ser. No. 142,778. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLOVER PRODUCTS CORPORATION, Los Angeles, Calif. Filed Jan. 26, 1921.



Particular description of goods.—Perfumes and Incense, Both in Solid Form.
Claims use since Nov. 1, 1920.

Ser. No. 142,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES WEBB GODEFROY, St. Louis, Mo. Filed Jan. 27, 1921.

VELVETONE

Particular description of goods.—Face-Powders, Face-Bleaches, and Liquid Face-Rouge.
Claims use since about 1883.

Ser. No. 142,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLOBE GROCERY STORES, INCORPORATED, New York and Brooklyn, N. Y. Filed Jan. 27, 1921.

Oakwood

Particular description of goods.—Baking-Powder.
Claims use since Sept. 5, 1920.

Ser. No. 142,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RITE-WATE MEDICINE CO., Detroit, Mich. Filed Jan. 27, 1921.

RITE-WATE

Particular description of goods.—A Fat-Reducing Remedy.
Claims use since about June 1, 1919.

Ser. No. 142,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed Jan. 28, 1921.

S.M.

Particular description of goods.—Tanning Extracts.
Claims use since on or about Jan. 5, 1914.

Ser. No. 142,897. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed Jan. 28, 1921.

S.M.S.

Particular description of goods.—Tanning Extracts.
Claims use since on or about Jan. 6, 1914.

Ser. No. 142,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed Jan. 28, 1921.

O.S.M.

Particular description of goods.—Tanning Extracts.
Claims use since on or about Aug. 5, 1920.

Ser. No. 142,899. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed Jan. 28, 1921.

O.S.M.S.

Particular description of goods.—Tanning Extracts.
Claims use since on or about Aug. 3, 1920.

Ser. No. 142,900. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed Jan. 28, 1921.

WATEX

Particular description of goods.—Tanning Extracts.
Claims use since on or about Dec. 28, 1920.

Ser. No. 142,901. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed Jan. 28, 1921.

4-35

Particular description of goods.—Mordants for Textiles.
Claims use since on or about Aug. 27, 1914.

Ser. No. 142,930. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Jan. 29, 1921.

ACHROMINE

Particular description of goods.—Substances Used for the After Treatment of Dyed Fabrics to Give Greater Brightness and a Better Fastness to Potting and Fulling.
Claims use since June 3, 1921.

Ser. No. 142,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Jan. 29, 1921.

CYPER

Particular description of goods.—Dyes and Dyestuffs.
Claims use since Jan. 3, 1921.

Ser. No. 142,934. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN R. HAYHURST, Evansville, Ind. Filed Jan. 29, 1921.

King-Pin

Particular description of goods.—Pile-Salve.
Claims use since Jan. 8, 1921.

Ser. No. 142,937. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CARL L. MERZ, Newark, N. J. Filed Jan. 29, 1921.



No claim being made to the words "Safety" and "Razor" apart from the mark shown in the drawing.

Particular description of goods.—Razor-Blades, Safety-Razors, Safety-Razor Handles.

Claims use since Feb. 1, 1920.

Ser. No. 142,958. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CALICO PRINTERS' ASSOCIATION LIMITED, Manchester, England. Filed Jan. 31, 1921.



The word "Fabric" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Cotton Piece Goods.

Claims use since Sept. 9, 1919.

Ser. No. 142,965. (CLASS 39. CLOTHING.) J. ESKIND & SONS, Nashville, Tenn. Filed Jan. 31, 1921.

Esco

Particular description of goods.—Men's Suits, Pants, Overcoats, Dress and Work Shirts, Knitted and Textile Underwear, Sweaters; Boys' Suits, Knee-Pants, Sweaters, Underwear; Men's, Ladies', and Boys' Hosiery; Ladies' Cloaks, Skirts, Nightgowns, Knitted and Textile One, Two, and Three Piece Underwear, and Sweaters.

Claims use since 1913.

Ser. No. 143,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAABE & BOWMAN, Philadelphia, Pa. Filed Jan. 31, 1921.

VERDEE

Particular description of goods.—Body-Vermin Destroyer.

Claims use since December, 1916.

Ser. No. 143,015. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROY A. SIMS, St. Louis, Mo. Filed Jan. 31, 1921.

Sek-Kil-o

Particular description of goods.—Insecticides and Disinfectants.

Claims use since on or about Feb. 1, 1920.

Ser. No. 143,030. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE ATLAS BOLT & SCREW CO., Cleveland, Ohio. Filed Feb. 1, 1921.



Particular description of goods.—Bolts, Screws, Studs, Rivets, Nuts, and Clevis-Pins.

Claims use since March, 1910.

Ser. No. 143,060. (CLASS 15. OILS AND GREASES.) PENNANT OIL & GREASE CO., Los Angeles, Calif. Filed Feb. 1, 1921.

SPEED-O-L

The words "Speed, Power, Economy, Endurance, Durability, for Motor Cars" do not form a part of the registration sought apart from the mark shown in the drawing.

Particular description of goods.—Lubricating Oils and Greases and Gasolene.

Claims use since Jan. 18, 1921.

Ser. No. 143,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS ROSENFIELD, Chicago, Ill. Filed Feb. 1, 1921.

SUNNY BROOK



The picture being fanciful.

Particular description of goods.—A Tonic for Building Up and Purifying the System.

Claims use since Jan. 6, 1921.

Ser. No. 143,066. (CLASS 39. CLOTHING.) T. W. STEVENSON COMPANY, Minneapolis, Minn. Filed Feb. 1, 1921. Under ten-year proviso.

PATTERSON

Particular description of goods.—Hats and Caps for Men and Boys.

Claims use since Jan. 1, 1895.

Ser. No. 143,085. (CLASS 39. CLOTHING.) BENJAMIN & JOHNES, Newark, N. J. Filed Feb. 2, 1921.

Body-Glove

Particular description of goods.—Corsets, Brassières, and Women's Underclothing.

Claims use since Jan. 17, 1921.

Ser. No. 143,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE YEAST CO., INC., New York, N. Y. Filed Feb. 4, 1921.

C-Y

Applicant disclaims any exclusive right to the words "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Chocolate Candy Containing Yeast.

Claims use since Jan. 24, 1921.

Ser. No. 143,173. (CLASS 39. CLOTHING.) ROBERT E. LIEDIKE, Philadelphia, Pa. Filed Feb. 4, 1921.

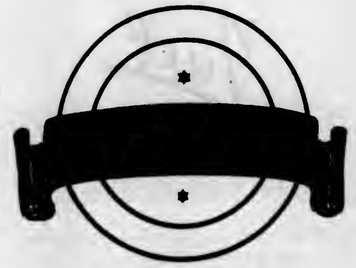


No claim is made for the word "Frocks" apart from the mark shown in the drawing.

Particular description of goods.—Children's Dresses, Rompers, and Middies.

Claims use since Jan. 1, 1921.

Ser. No. 143,227. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNIVERSAL TIDE POWER COMPANY, Boston, Mass. Filed Feb. 5, 1921.



Particular description of goods.—Motors Actuated by the Power of the Tide.

Claims use since Sept. 1, 1918.

Ser. No. 143,332. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CHARLES H. SHERMAN, North Attleboro, Mass. Filed Feb. 8, 1921.

Vesclip

Consists of the word "Vesclip."

Particular description of goods.—Slides for Watch-Guards, Sautoirs, and the Like.

Claims use since Jan. 25, 1921.

Ser. No. 143,333. (CLASS 39. CLOTHING.) A. J. Tower Company, Boston, Mass. Filed Feb. 8, 1921.

KITCOAT

No exclusive right is claimed to the use of the word "Coat" apart from the mark shown on the drawing.

Particular description of goods.—Waterproof Coats.

Claims use since February, 1916.

Ser. No. 143,335. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AUGUSTE BONAZ, Paris, France. Filed Feb. 9, 1921.

Auguste Bonaz

Which is a facsimile of applicant's handwriting.

Particular description of goods.—Combs, Hairpins, Clasps, and Hair Ornaments Made of Tortoise-Shell, Bone, or Ivory.

Claims use since May 12, 1920.

Ser. No. 143,391. (CLASS 39. CLOTHING.) L. & S. FEATHER CO. INC., New York, N. Y. Filed Feb. 10, 1921.

Juel

Particular description of goods.—Ladies' Hats.
Claims use since Jan. 5, 1921.

Ser. No. 143,402. (CLASS 39. CLOTHING.) ROBERTSON & SONS SHOE REPAIRERS, INC., New York, N. Y. Filed Feb. 10, 1921.

R&S

Particular description of goods.—A Repair-Patch of Molded and Sheet Rubber for Rubber Footwear.
Claims use since Jan. 31, 1921.

Ser. No. 143,429. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DAZEY CHURN & MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 11, 1921.

DAZEY

Particular description of goods.—Churns.
Claims use since 1906.

Ser. No. 143,430. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DAZEY CHURN & MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 11, 1921.

DAZEY

The vertical lines in the letter "z" of the drawing indicate the color red.
Particular description of goods.—Churns.
Claims use since about Mar. 29, 1920.

Ser. No. 143,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOEFLER'S CENTENNIAL CHOCOLATES, INC., Buffalo, N. Y. Filed Feb. 11, 1921.



The picture of the girl being fanciful.
Particular description of goods.—Chocolates.
Claims use since Dec. 7, 1920.

Ser. No. 143,456. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Feb. 11, 1921.

LUZO

Particular description of goods.—Antiseptic Lubricating Jelly.
Claims use since Jan. 18, 1921.

Ser. No. 143,484. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Feb. 12, 1921.

VITALOSE

Particular description of goods.—Sugar.
Claims use since Jan. 15, 1921.

Ser. No. 143,489. (CLASS 39. CLOTHING.) JOSIAH H. DANFORTH & COMPANY, Gloversville, N. Y. Filed Feb. 12, 1921.

DAN
4TH

Particular description of goods.—Gloves of Leather and Fabric for Men, Women, and Children.
Claims use since January, 1919.

Ser. No. 143,536. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHICOPEE MFG. CORPORATION, Chicopee Falls, Mass. Filed Feb. 14, 1921.

Chicopee Maid

Particular description of goods.—Cotton Piece Goods.
Claims use since July, 1920.

Ser. No. 143,537. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHICOPEE MFG. CORPORATION, Chicopee Falls, Mass. Filed Feb. 14, 1921.



Particular description of goods.—Cotton Piece Goods.
Claims use since July, 1920.

Ser. No. 143,541. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CONTINENTAL GIN CO., Birmingham, Ala. Filed Feb. 14, 1921.

CONTINENTAL

Particular description of goods.—Cotton Gins and Distributers, Lint-Flues, and Battery-Condensers for Cotton-Gins and Cotton-Presses.
Claims use since 1900.

Ser. No. 143,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIQUID VELVET COMPANY, Cincinnati, Ohio. Filed Feb. 14, 1921.

Liquid Velvet

Particular description of goods.—Toilet Lotions.
Claims use since Oct. 6, 1916.

Ser. No. 143,577. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) URI B. SOUTHWICK, Chelan, Wash. Filed Feb. 14, 1921.

ERIGERINE

Particular description of goods.—A Salve Possessing Disinfecting and Healing Properties.
Claims use since Jan. 14, 1921.

Ser. No. 143,613. (CLASS 39. CLOTHING.) FERDINAND MANN, New York, N. Y. Filed Feb. 15, 1921.

TAILOR FASHIONED

Consisting of the words "Tailor Fashioned."
Particular description of goods.—Hosiery.
Claims use since Jan. 10, 1921.

Ser. No. 143,623. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed Feb. 15, 1921.

MALLO-CAROS

Particular description of goods.—Candies.
Claims use since 1908.

Ser. No. 143,626. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Feb. 15, 1921.



No claim is made to the words "St. Louis Branch" or the word "Brand" apart from the mark as shown in the accompanying drawing.
Particular description of goods.—Waterproof Clothing.
Claims use since Jan. 7, 1896.

Ser. No. 143,640. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WARWICK HENDERSON, Newton Center, Mass., assignor to Kangaroo Polish Co., Newton, Mass., a Corporation of Massachusetts. Filed Feb. 16, 1921.

KANGAROO
"JUST A DAB AND A RUB"

No registration rights are claimed for the phrase "Just a Dab and a Rub" apart from the mark shown in the drawing.
Particular description of goods.—Shoe-Polish.
Claims use since Jan. 1, 1921.

Ser. No. 143,644. (CLASS 39. CLOTHING.) HOOD RUBBER COMPANY, Watertown, Mass. Filed Feb. 16, 1921.

KATTLE KING

Particular description of goods.—Rubber Boots and Shoes.
Claims use since Jan. 25, 1916.

Ser. No. 143,649. (CLASS 39. CLOTHING.) HARRY J. LINSK, Philadelphia, Pa. Filed Feb. 16, 1921.

Lucette

Particular description of goods.—Children's, Misses', and Ladies' Dresses.
Claims use since Jan. 19, 1921.

Ser. No. 143,736. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BASSICK MANUFACTURING CO., Chicago, Ill. Filed Feb. 18, 1921.

ALEMITE

Particular description of goods.—Lubricating Systems, Including a Plurality of Nipples or Fittings to be Secured to the Mechanism to be Lubricated, and a Lubricant-Compressor Having a Discharge-Conduit, the other End of Which is Provided with a Coupling for Making Detachable Sealed Connections with the Nipples or Fittings.
Claims use since May, 1917.

Ser. No. 143,758. (CLASS 39. CLOTHING.) THE HOLTERS COMPANY, Cincinnati, Ohio. Filed Feb. 18, 1921.

The Protex Arch

Particular description of goods.—Men's, Women's, and Children's Shoes Made of Leather, Fabric, and Combined Leather and Fabric.
Claims use since Feb. 15, 1921.

Ser. No. 143,772. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MCGRAW MANUFACTURING COMPANY, McGraw, N. Y. Filed Feb. 18, 1921.

BUTTERFLY BRAND

No claim being made to the word "Brand" apart from the mark shown.
Particular description of goods.—Shoe-Laces, Corset-Laces, and Washable Lingerie-Braid.
Claims use since May, 1914.

Ser. No. 143,775. (CLASS 39. CLOTHING.) BARNEY OBSTREICHER, New York, N. Y. Filed Feb. 18, 1921.

Paloknit

Particular description of goods.—Knit Caps and Toques.
Claims use since Jan. 1, 1921.

Ser. No. 143,794. (CLASS 39. CLOTHING.) I. SPIEWAK & SONS, New York, N. Y. Filed Feb. 18, 1921.

GOLDEN FLEECE

Particular description of goods.—Suits, Overcoats, and Trousers for Men and Boys.
Claims use since Oct. 1, 1920.

Ser. No. 143,826. (CLASS 39. CLOTHING.) MORRIS & COMPANY, INCORPORATED, Baltimore, Md. Filed Feb. 19, 1921.

gymrig

Particular description of goods.—Bloomers, Blouses, Waists, Skirts, and Combination-Suits Composed of Waists and Bloomers and Blouses and Bloomers.
Claims use since Feb. 1, 1921.

Ser. No. 143,843. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Feb. 19, 1921.

CONQUEROR

Particular description of goods.—Shovels and Spades.
Claims use since January, 1905.

Ser. No. 143,847. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD A. WELTERS, Jacksonville, Fla. Filed Feb. 19, 1921.



The portrait being that of Anita Bush and no exclusive right being claimed in the words "Antiseptic Tooth Powder" except in connection with the mark as shown.
Particular description of goods.—Tooth-Powders.
Claims use since June 2, 1920.

Ser. No. 143,854. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COOK PAINT & VARNISH COMPANY, Kansas City, Mo. Filed Feb. 21, 1921.

ARMORSPAR

Particular description of goods.—Varnish.
Claims use since about May 1, 1920.

Ser. No. 143,855. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COOK PAINT & VARNISH COMPANY, Kansas City, Mo. Filed Feb. 21, 1921.

ARMORFLOOR

Particular description of goods.—Varnish.
Claims use since about May 1, 1920.

Ser. No. 143,856. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COOK PAINT & VARNISH COMPANY, Kansas City, Mo. Filed Feb. 21, 1921.

ARMORCOTE

Particular description of goods.—Varnish.
Claims use since about May 1, 1920.

Ser. No. 143,876. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MONARCH ENGINEERING COMPANY, Dayton, Ohio. Filed Feb. 21, 1921.



No claim is made to the words "Trade Mark" and "Automatic Electric Water Systems" apart from the mark shown.
Particular description of goods.—Pneumatic Pressure Systems for Pumping, Storing, and Supplying Water or other Fluids and Parts Thereof.
Claims use since Jan. 1, 1919.

Ser. No. 143,886. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Feb. 21, 1921.



Particular description of goods.—Candy.
Claims use since June 1, 1904.

Ser. No. 143,913. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. CHENEY & SON, Manlius, N. Y. Filed Feb. 23, 1921.

AJAX

Particular description of goods.—Knife and Tool Sharpeners.
Claims use since 1913.

Ser. No. 143,936. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DUNCAN C. MUNRO, Windsor, Ontario, Canada. Filed Feb. 23, 1921.



Particular description of goods.—Wrenches.
Claims use since Nov. 31, 1920.

Ser. No. 143,961. (CLASS 39. CLOTHING.) THE LOUIS STIX CO., Cincinnati, Ohio. Filed Feb. 23, 1921.



Particular description of goods.—Hosiery.
Claims use since about Jan. 1, 1904.

Ser. No. 144,006. (CLASS 39. CLOTHING.) UNION MILLS, INC., New York, N. Y. Filed Feb. 24, 1921.



No claim being made to the exclusive use of the words "Warm Soft Fleece, Perfect Fitting Underwear" apart from the mark as shown in the drawing.
Particular description of goods.—Knitted Underwear for Women and Children in One and Two Piece Garments.
Claims use since Jan. 18, 1921.

Ser. No. 144,035. (CLASS 39. CLOTHING.) ISRAEL MICHELSOHN, New York, N. Y. Filed Feb. 25, 1921.



Particular description of goods.—Women's and Misses' Hose.
Claims use since Feb. 8, 1921.

Ser. No. 144,050. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 25, 1921.

BALKA-FUR

Consists of the word "Balka-Fur." No claim is made to the exclusive use of the word "Fur" except in connection with the mark shown.

Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.

Claims use since Jan. 18, 1921.

Ser. No. 144,122. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER R. BREWER, Chicago, Ill. Filed Feb. 28, 1921.

HURY - KANE

Particular description of goods.—Mechanical Spark-Plug Cleaners.

Claims use since Feb. 4, 1921.

Ser. No. 144,140. (CLASS 37. PAPER AND STATIONERY.) GRAHAM PAPER COMPANY, St. Louis, Mo. Filed Feb. 28, 1921.

Cushiontwist

Particular description of goods.—Fruit-Wrapping Tissue-Paper.

Claims use since December, 1920.

Ser. No. 144,175. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAIRD BROTHERS CO., INC., Boston, Mass. Filed Mar. 1, 1921.



Particular description of goods.—Candy.

Claims use since Feb. 11, 1921.

Ser. No. 144,183. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELM CANDY CO., Lancaster, Pa. Filed Mar. 1, 1921.

Vel-Roys

Particular description of goods.—Candy.

Claims use since Dec. 1, 1920.

Ser. No. 144,208. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WARNEKE & HAY CO. INC., New York, N. Y. Filed Mar. 1, 1921.

"THE BRIDAL PAIR"

Particular description of goods.—Articles of Jewelry—Namely, Wedding-Rings and Engagement-Rings.

Claims use since Sept. 17, 1919.

Ser. No. 144,258. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SWIFT AND COMPANY, Chicago, Ill. Filed Mar. 2, 1921.



Vanity Fair

Particular description of goods.—Toilet Soaps.

Claims use since May, 1913.

Ser. No. 144,274. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) J. B. BOWDEN & COMPANY, New York, N. Y. Filed Mar. 3, 1921.

LILY OF THE VALLEY

Particular description of goods.—Finger-Rings of All Kinds.

Claims use since on or about Apr. 10, 1917.

Ser. No. 144,283. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) E. M. HOLT PLAID MILLS, INC., Burlington, N. C. Filed Mar. 3, 1921.

DOROTHY PERKINS

Particular description of goods.—Cotton Goods in the Piece.

Claims use since July 26, 1920.

Ser. No. 144,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Mar. 5, 1921.

P·K^{S}

Particular description of goods.—Sugar Coated Chewing-Gum.

Claims use since Feb. 22, 1921.

Ser. No. 144,370. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed Mar. 5, 1921.

SNOWDRIFT

Particular description of goods.—Cotton Piece Goods—Namely, Sheetings, Muslins, Sheets, and Pillow-Cases.

Claims use since on or about Sept. 25, 1916.

Ser. No. 144,371. (CLASS 38. PRINTS AND PUBLICATIONS.) THE AMERICAN LUMBERMAN, Chicago, Ill. Filed Mar. 7, 1921.



No exclusive claim is made for the words "Greatest Lumber Newspaper on Earth" and "Chicago" apart from the mark shown.

Particular description of goods.—Weekly Periodicals and Publications.

Claims use since Feb. 5, 1921.

Ser. No. 144,378. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARL A. BARRETT, Chicago, Ill. Filed Mar. 7, 1921.

Palais Royale

Particular description of goods.—Candies, Particularly Chocolates and Bonbons.

Claims use since Feb. 21, 1921.

Ser. No. 144,389. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GLENCAIRN MFG. CO., Pawtucket, R. I. Filed Mar. 7, 1921.

Glenco

Particular description of goods.—Shoe-Lacings, Corset-Lacings, Underwear-Lacings, Blouse-Lacings, Galloons, and Braids, All of Which are Made of Linen, Silk, or Worsted.

Claims use since April, 1918.

Ser. No. 144,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOWARD H. HOYT CANDY CO., Chicago, Ill. Filed Mar. 7, 1921.

TOP·O·THE MORN

Particular description of goods.—Candy.

Claims use since Jan. 3, 1921.

Ser. No. 144,401. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES J. MORIN, Waterville, Me. Filed Mar. 7, 1921.



Consists of my portrait.

Particular description of goods.—Cough-Syrup.

Claims use since Sept. 10, 1919.

Ser. No. 144,436. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) TAUNTON PEARL WORKS, INC., Taunton, Mass. Filed Mar. 7, 1921.

CHAMPION

Particular description of goods.—Tie-Clasps, Collar-Holders, Collar-Buttons, and Pins for Personal Adornment.

Claims use since Jan. 1, 1921.

Ser. No. 144,442. (CLASS 37. PAPER AND STATIONERY.) FRED. WEBSTER PAPER COMPANY, Holyoke, Mass. Filed Mar. 7, 1921.

STRENGTH AND STABILITY

No claim is made to the words "Strength" and "Stability" apart from the form shown in the drawing.

Particular description of goods.—Writing and Typewriting Paper.

Claims use since Feb. 7, 1921.

Ser. No. 144,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. J. BRACH AND SONS, Chicago, Ill. Filed Mar. 8, 1921.

ask for "BROX"

Particular description of goods.—Candy.

Claims use since 1919.

Ser. No. 144,457. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INDIA COMPANY, Newark, N. J. Filed Mar. 8, 1921.

INDIAN DELIGHT

Particular description of goods.—Chewing-Gum.

Claims use since January, 1921.

Ser. No. 144,461. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LACE NET IMPORTING CO., New York, N. Y. Filed Mar. 8, 1921.

DENTELLE
A LA MARECHALE

Particular description of goods.—Fancy Laces in the Piece.
Claims use since April, 1914.

Ser. No. 144,466. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES A. MUNDON, Parsons, Kans. Filed Mar. 8, 1921.



Particular description of goods.—A Preservative and Polish for Automobile-Bodies, Pianos, Furniture, &c.
Claims use since Feb. 4, 1920.

Ser. No. 144,501. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE DRESSO POLISH CO., Norwich, Conn. Filed Mar. 9, 1921.

DRESSO

Particular description of goods.—Polish for Pianos and Automobiles.
Claims use since Feb. 1, 1921.

Ser. 144,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN HARITOPOL, Tampa, Fla. Filed Mar. 9, 1921.

FLORIDA BEAUTIES

Particular description of goods.—Grapefruit Paste.
Claims use since Dec. 1, 1918.

Ser. No. 144,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL R. MERCER, Seattle, Wash. Filed Mar. 10, 1921.

Bumble Bee

Particular description of goods.—Popcorn and Nut Confectionery.
Claims use since Jan. 1, 1921.

Ser. No. 144,717. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM TYLER GREEN, Summit, N. J. Filed Mar. 14, 1921.

YEASTO

Particular description of goods.—Soap.
Claims use since Feb. 10, 1921.

Ser. No. 144,767. (CLASS 38. PRINTS AND PUBLICATIONS.) THE REUBEN H. DONNELLEY CORPORATION, Chicago, Ill. Filed Mar. 15, 1921.

THE RED BOOK

No claim is made to the word "Book" apart from the mark shown.
Particular description of goods.—Telephone-Directories Published Semiyearly.
Claims use since 1910.

Ser. No. 144,820. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD K. LINCOLN, New York, N. Y. Filed Mar. 16, 1921.



Particular description of goods.—Auto Dri-Mist, (a Polish;) Cedar Floor-Polish; Duck-Back Wax, (a Polish.)
Claims use since Nov. 15, 1918.

Ser. No. 144,896. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Mar. 18, 1921.

EXOSE

Particular description of goods.—Corn-Sugar.
Claims use since Feb. 24, 1921.

Ser. No. 144,910. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER T. HALL & Co., Ottumwa, Iowa. Filed Mar. 18, 1921.

FAN-TA-SI

Particular description of goods.—Candies.
Claims use since February, 1919.

Ser. No. 144,942. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed Mar. 18, 1921.

OUR INSURANCE GIRL

Particular description of goods.—Hair-Nets.
Claims use since Feb. 1, 1921.

Ser. No. 145,055. (CLASS 38. PRINTS AND PUBLICATIONS.) THE J. G. BRILL COMPANY, Philadelphia, Pa. Filed Mar. 22, 1921.

BRILL MAGAZINE

The word "Magazine" is disclaimed when used apart from the mark shown.
Particular description of goods.—A House Organ Published Monthly.
Claims use since Jan. 1, 1910.

Ser. No. 145,080. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAXTON & GALLAGHER CO., Omaha, Nebr. Filed Mar. 22, 1921.

Butter-Nut

Particular description of goods.—Coffee and Tea.
Claims use since May, 1913.

Ser. No. 145,098. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CATAWBA CANDY COMPANY, Sandusky, Ohio. Filed Mar. 23, 1921.

3 POINTS

Particular description of goods.—Candy.
Claims use since December, 1919.

Ser. No. 154,099. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHENEY BROTHERS, South Manchester, Conn. Filed Mar. 23, 1921.

Starkrepe

Particular description of goods.—Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in the Whole or in Part of Silk.
Claims use since about Mar. 17, 1921.

Ser. No. 145,124. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. C. PETERS MILL CO., Omaha, Nebr. Filed Mar. 23, 1921.

Red Feather

Particular description of goods.—Live Poultry.
Claims use since August, 1918.

Ser. No. 145,163. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOWAN-LENNING-BROWN CO., Duluth, Minn. Filed Mar. 24, 1921.

HONOR

Particular description of goods.—Canned, Pickled, and Dried Fish.
Claims use since July 1, 1899.

Ser. No. 145,165. (CLASS 37. PAPER AND STATIONERY.) THE HENSEL-MULRANEN COMPANY, INC., Syracuse, N. Y. Filed Mar. 24, 1921.

TOP

Particular description of goods.—Paper-Fasteners.
Claims use since about Jan. 10, 1921.

Ser. No. 145,228. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NATIONAL LEAD COMPANY OF CALIFORNIA, San Francisco, Calif. Filed Mar. 25, 1921.



The shading on the drawing indicates blue and gold colors. No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—White Lead and Lead Oxids.
Claims use since May 29, 1905.

Ser. No. 145,236. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALENTIN RODRIGUEZ, New York, N. Y. Filed Mar. 25, 1921.

"SUNFIRST"

Particular description of goods.—Spanish Paprika.
Claims use since Jan. 3, 1919.

Ser. No. 145,272. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CHARLES A. KEENE, New York, N. Y. Filed Mar. 26, 1921.

La Belle

Particular description of goods.—Artificial Pearls, Necklaces, Bracelets, Brooches, Lavallières, and Stickpins.
Claims use since about Mar. 15, 1921.

Ser. No. 145,273. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CHARLES A. KEENE, New York, N. Y. Filed Mar. 26, 1921.

La Marie

Particular description of goods.—Artificial Pearls, Necklaces, Bracelets, Brooches, Lavallières, and Stickpins.
Claims use since about Mar. 15, 1921.

Ser. No. 145,393. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOUIS M. FISHER, Clarksdale, Mo. Filed Mar. 29, 1921.

LOUIS M. FISHER TRADE MARK AJAX

No claim being made to the exclusive use of the words "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Belt-Dressing Compositions.

Claims use since on or about Mar. 21, 1921.

Ser. No. 145,421. (CLASS 37. PAPER AND STATIONERY.) S. D. WARREN COMPANY, Boston, Mass. Filed Mar. 29, 1921.

LUSTRO

Particular description of goods.—Printing-Paper.

Claims use since about Jan. 1, 1909.

Ser. No. 145,557. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CLARENCE E. EDSON, Cleveland, Ohio. Filed Apr. 1, 1921.

Cleo

Particular description of goods.—Artificial Pearls.

Claims use since Jan. 1, 1921.

Ser. No. 145,604. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ARDROSS WORSTED CO., Frankford, Pa., and New York, N. Y. Filed Apr. 2, 1921.

ESCOTINE

Consisting of the word "Escotine."

Particular description of goods.—Worsteds in the Piece.

Claims use since Jan. 1, 1920.

Ser. No. 145,623. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWARD G. HAGEDORN, New York, N. Y. Filed Apr. 2, 1921.

Hagedorn Silks.

Applicant disclaims the exclusive use of the word "Silks."

Particular description of goods.—Natural or Cocoon Silk, Fiber or Artificial Silk, Silk and Cotton Mixture, Silk and Wool Mixture; Artificial, Fiber, and Silk Mixture; Artificial, Natural, or Cocoon Silk Mixture, Each Being Fully Prepared Material in the Piece.

Claims use since Jan. 1, 1915.

Ser. No. 145,631. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WILLIAM T. JOHNSTON, Chicago, Ill. Filed Apr. 2, 1921.

CHALLENGE

Particular description of goods.—Electric Batteries and Parts Thereof.

Claims use since Oct. 1, 1920.

Ser. No. 145,640. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NORTON COMPANY, Worcester, Mass. Filed Apr. 2, 1921.

Crystolon

Particular description of goods.—Abrasive Products—Namely, Powders, Grains, Pastes, Stones, Hones, Oil-Stones, Valve-Grinding Compounds, and Grinding, Cutting, Polishing, and Abrading Wheels.

Claims use since May, 1911.

Ser. No. 145,659. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed Apr. 2, 1921.

PRIMUS

Particular description of goods.—Woolen Blankets.

Claims use since on or about Feb. 1, 1915.

Ser. No. 145,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. M. & F. WALDO, New York, N. Y. Filed Apr. 4, 1921.

KROMETONE

Particular description of goods.—A Natural Product Used in the Manufacture of Paints, Printing-Inks, Linoleum, Oil-Cloth, and Celluloid Compositions, Composed of Oxid of Iron and Silicate of Alumina.

Claims use since October, 1919.

Ser. No. 145,876. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CINDERELLA HEEL CORPORATION, St. Louis, Mo. Filed Apr. 8, 1921.

CINDERELLA

Particular description of goods.—Liquid Shoe-Enamel.

Claims use since on or about Mar. 1, 1921.

Ser. No. 146,105. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. REED BURNS SUPPLY COMPANY, Brooklyn, N. Y. Filed Apr. 13, 1921.

E. Reed Burns

The name being a facsimile signature of E. Reed Burns, the president of the applicant company.

Particular description of goods.—Polishing Compositions—Namely, Buffs, Polishing-Wheels, and Metal-Polish.

Claims use since 1915.

Ser. No. 146,220. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOSLIN MFG. CO., Providence, R. I. Filed Apr. 15, 1921.

JOSCO

Particular description of goods.—Shoe and Corset Lacing Tips.

Claims use since Mar. 16, 1921.

Ser. No. 146,366. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) F. BENEDETTI & A. VANNOZZI & CO., Trenton, N. J. Filed Apr. 19, 1921.

LA VERACCHINA

Particular description of goods.—Washing Fluids.

Claims use since Mar. 4, 1921.

Ser. No. 146,425. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THOMAS M. FARMER, Watertown, N. Y. Filed Apr. 20, 1921.

SAVES THE RUB

The phrase "Saves the Rub" not being claimed apart from the other features of the mark.

Particular description of goods.—A Preparation in Tablet Form for Cleaning, Deodorizing, and Disinfecting Clothes, Silverware, Carpets, Linoleums, Dishes, Pots, Pans, Metal Ware, Woodwork, Enamel Ware, Bathtubs, Toilets, Milk-Cans, and Bottles.

Claims use since Jan. 14, 1915.

Ser. No. 146,427. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PHILIP GEORGE FROMMELL, Jr., East McKeesport, Pa. Filed Apr. 20, 1921.

RED X

Particular description of goods.—Piano and Furniture Polish and Auto-Body Polish.

Claims use since Mar. 19, 1921.

Ser. No. 146,479. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEX BLACKSTONE, Newark, N. J. Filed Apr. 21, 1921.

TRU-LAX

Particular description of goods.—Chocolate Laxative Tablet.

Claims use since Nov. 1, 1920.

Ser. No. 146,485. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEE R. HOPKINS, Baltimore, Md. Filed Apr. 21, 1921.

UTILITY

Particular description of goods.—Metal-Polish.

Claims use since Apr. 15, 1921.

Ser. No. 146,495. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NAVAJO LABORATORIES, INC., Casper, Wyo. Filed Apr. 21, 1921.

NAVAJO

Particular description of goods.—Mechanics' Soap in Cake, Paste, or Liquid Form.

Claims use since Nov. 15, 1920.

Ser. No. 146,537. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921.

BRILLIO

Particular description of goods.—Silk Skirt-Braid.

Claims use since 1914.

Ser. No. 146,538. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921.



The picture of a young lady shown in the drawing is fanciful.

Particular description of goods.—Snap-Fasteners.
Claims use since April, 1918.

Ser. No. 146,543. (CLASS 40. FANCY GOODS, FUR NISHINGS, AND NOTIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921.



Particular description of goods.—Silk Skirt-Braid.
Claims use since April, 1918.

Ser. No. 146,619. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 23, 1921.



Particular description of goods.—Toilet Soap.
Claims use since June, 1894.

Ser. No. 146,639. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LARKIN CO., INC., Buffalo, N. Y. Filed Apr. 23, 1921.

SWEET HOME

Particular description of goods.—Laundry Soap.
Claims use since Jan. 1, 1879.

Ser. No. 146,716. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) NATHANIEL M. KIRSHNER, Los Angeles, Calif. Filed Apr. 25, 1921.

ROSARY

Particular description of goods.—Finger-Rings.
Claims use since Apr. 12, 1921.

Ser. No. 146,733. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIONEER TAR SOAP CO., Dayton, Ohio. Filed Apr. 25, 1921.

AUTOFLOTE

Particular description of goods.—Soaps.
Claims use since Apr. 14, 1921.

Ser. No. 146,913. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE JOSEPH CRAMER COMPANY, Cincinnati, Ohio. Filed Apr. 28, 1921.

RE-LI-O

Particular description of goods.—Soap and Soap Paste.
Claims use since Apr. 16, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 14, 1921.

143,841. DYES. ANDERSON, MEYER & CO. LIMITED, New York, N. Y., and Shanghai, China.
Filed September 23, 1920. Serial No. 137,510. PUBLISHED MARCH 8, 1921.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 14, 1921.

143,842. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE AMERICAN PAINT WORKS, New Orleans, La. Filed Jan. 15, 1921. Serial No. 142,278.

Climatic

Particular description of goods.—Dry, Paste and Ready-Mixed Paints, House-Paints, Interior and Exterior Finishes, Automobile-Finishes, Colors and Oils, Stains, Enamels, and Driers.
Claims use since Jan. 1, 1906.

143,843. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE AMERICAN WIREMOLD COMPANY, Hartford, Conn. Filed Jan. 26, 1921. Serial No. 142,770.

WIREDUCT

Particular description of goods.—Non-Metallic Conduit.
Claims use since Jan. 1, 1912.

143,844. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED A. BURNHAM, Boston, Mass. Filed Nov. 24, 1920. Serial No. 140,095.

SAL ALTERANT

Particular description of goods.—A Saline Aperient for the Treatment of Constipation, Dyspepsia, Rheumatism, Liver and Kidney Disorders, and the Diathesis of Uric Acid.
Claims use since Jan. 1, 1910.

143,845. (CLASS 39. CLOTHING.) D. CAPLAN & SONS, Baltimore, Md. Filed Mar. 29, 1921. Serial No. 145,392.

Grace Darling

Particular description of goods.—Middy-Blouses, Middy-Dresses, and Middy-Suits.
Claims use since June 1, 1919.

143,846. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DETROIT DENTAL MANUFACTURING COMPANY, Detroit, Mich. Filed Oct. 11, 1920. Serial No. 138,158.

KERR

Particular description of goods.—Dental Specialties, viz: Pulp-Canal Instruments, Broach-Holders, Tweezers, Lifters or Holders for Impression Compounds, Mouth-Mirrors, Handles for Dental Instruments, Impression Compounds, Base-Plates, Impression-Trays, Dental Waxes, Polishes, Investment Compounds, Plaster of Paris; Flux for Soldering, Refining, and Casting; Cements, Separating Fluids, Annealers, Bunsen Burners, Blowpipes, Articulators, Spatulas, Engine-Drills, Saw-Frame and Strip Holders, Rubber-Dam Holders, Dental Sealers, Clamps, and Burnishers.
Claims use since about 1905.

143,847. (CLASS 39. CLOTHING.) EARL & WILSON, Troy, N. Y. Filed Jan. 20, 1921. Serial No. 142,477.

"TROY'S BEST PRODUCT"

Particular description of goods.—Collars, Dress, Negligée, and Under Shirts and Cuffs.
Claims use since 1905.

143,848. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 24, 1920. Serial No. 140,106.

"Amicalola"

Particular description of goods.—Finished Marble and Cut Stone.
Claims use since 1905.

143,849. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 24, 1920. Serial No. 140,108.

"Etowah"

Particular description of goods.—Finished Marble and Cut Stone.
Claims use since 1885.

143,850. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE GOTTMANN & SONS, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 144,080.

Choc. Candy Milk Stars

Particular description of goods.—Chocolate Candy.
Claims use since 1901.

143,851. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) HOMER FURNACE COMPANY, Coldwater, Mich. Filed Jan. 21, 1921. Serial No. 142,685.

Thermo-Seal

Particular description of goods.—Sheet-Metal Casings for Coal, Wood, and Gas Furnaces.
Claims use since February, 1919.

143,852. (CLASS 15. OILS AND GREASES.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Jan. 20, 1921. Serial No. 142,493.

ABSORBED OIL

Particular description of goods.—Lubricating-Oils.
Claims use since 1912.

143,853. (CLASS 39. CLOTHING.) IDEAL HOSIERY MILLS, Maryville, Tenn. Filed Apr. 1, 1920. Serial No. 130,475.

BLACKFOOT

Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1920.

143,854. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) JOHN RUSSELL KELSO, Trenton, N. J. Filed Sept. 23, 1919. Serial No. 123,032.

EverReady

Particular description of goods.—Brake-Lining.
Claims use since Aug. 5, 1919.

143,855. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FREDERICK JACOB KORNBRUST, St. Johnsville, N. Y. Filed Oct. 29, 1920. Serial No. 138,949.

Peerless

Particular description of goods.—Coin-Operated Pianos and Orchestrions, Pianos, Player-Pianos, Piano-Players, Harps, Organs, Musical Bells, Musical-Bell Combinations, Pipe-Organs, Pipe-Organ Combinations, Pipe-Pianos and Pipe-Piano Combinations Operated by Electric Power, Foot-Power, or Mechanical Power, and Perforated Music-Rolls.
Claims use since July, 1916.

143,856. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) J. F. KURFEES PAINT COMPANY, Louisville, Ky. Filed Dec. 14, 1920. Serial No. 141,071.

KURFEES

Particular description of goods.—Mixed Paint, Enamel Paint, Varnish, Varnish-Stain, and Wood-Filler.
Claims use since Jan. 1, 1907.

143,857. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LESTER PIANO COMPANY, Philadelphia, Pa. Filed Apr. 15, 1920. Serial No. 131,182.

ALDEN

Particular description of goods.—Pianos and Player-Pianos.
Claims use since Feb. 20, 1920.

143,858. (CLASS 12. CONSTRUCTION MATERIALS.) E. M. LONG & SONS, Cadiz, Ohio. Filed Dec. 24, 1920. Serial No. 141,496.

IMPROVED

Particular description of goods.—Wooden Gutters and Rubber Roofing.
Claims use since Dec. 1, 1914.

143,859. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIRGINIA MOSLEY, Des Moines, Iowa. Filed Dec. 13, 1920. Serial No. 141,008.

VIRGINIA MOSLEY GLOSSINE

Particular description of goods.—Hair-Tonics, Either Liquid or Salve.
Claims use since January, 1919.

143,860. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAUMKEAG STEAM COTTON CO., Salem, Mass. Filed Apr. 7, 1921. Serial No. 145,848.

POTOMAC

Particular description of goods.—Sheets and Pillow-Cases.
Claims use since 1902.

143,861. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONG HANDKERCHIEF CO., INC., Passaic, N. J., and New York, N. Y. Filed Mar. 17, 1921. Serial No. 144,866.

Quality

Particular description of goods.—Handkerchiefs.
Claims use since about January, 1906.

143,862. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAUMKEAG STEAM COTTON CO., Salem, Mass. Filed Apr. 7, 1921. Serial No. 145,851.

LENOX

Particular description of goods.—Sheets and Pillow-Cases.
Claims use since July, 1910.

143,863. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAUMKEAG STEAM COTTON CO., Salem, Mass. Filed Apr. 7, 1921. Serial No. 145,852.

NEWPORT

Particular description of goods.—Sheets and Pillow-Cases.
Claims use since 1905.

143,864. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. J. O'NEILL MEDICINE CO., St. Louis, Mo. Filed Nov. 26, 1920. Serial No. 140,200.

O'NEILL'S Vegetable Remedy

Particular description of goods.—A Medicinal Preparation in Tablet Form Which Acts on the Liver, Kidneys, Stomach, and Bowels.
Claims use since September, 1918.

143,865. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OWL DRUG COMPANY, San Francisco, Calif. Filed Mar. 31, 1920. Serial No. 130,429.

MUSTARD-RUB

Particular description of goods.—Ointments Employed in the Treatment and Relief of Coughs, Colds, Croup, and Bronchial Affections, Rheumatism, Neuralgia, Stiff Joints, and Muscles.
Claims use since Mar. 6, 1920.

143,866. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PENICK & FORD, LTD. INCORPORATED, New Orleans, La. Filed Nov. 23, 1920. Serial No. 140,064.

Douglas

Particular description of goods.—Gloss-Starch.
Claims use since Jan. 15, 1918.

143,867. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O. W. PIERCE COMPANY, La Fayette, Ind. Filed Feb. 11, 1921. Serial No. 143,450.

BONA COFFEE

Particular description of goods.—Coffee.
Claims use since July, 1910.

143,868. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PINES MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 5, 1921. Serial No. 141,868.

WINTERFRONT

Particular description of goods.—Automobile-Radiator Shutters.
Claims use since July 12, 1919.

143,869. (CLASS 37. PAPER AND STATIONERY.) A. I. RANDALL, INC., Rockland, Mass. Filed Sept. 10, 1920. Serial No. 137,042.

A. I. Randall, Inc.

Particular description of goods.—Blank or Partially-Printed Labels, Ruled Office-Forms, Letter-Heads, Mailing-Envelops, Billheads, Blank or Partially-Printed Statements, Shipping and Merchandise Tags, and Blotters.
Claims use since Apr. 1, 1920.

143,870. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ROBBINS & MYERS COMPANY, Springfield, Ohio. Filed Jan. 15, 1921. Serial No. 142,297.

THE ROBBINS & MYERS CO.

Particular description of goods.—Electric Fans, Motors, and Generators.
Claims use since 1897 on fans and since 1899 on motors and generators.

143,871. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH-FAUS DRUG CO., Salt Lake City, Utah. Filed Jan. 12, 1921. Serial No. 142,171.



Particular description of goods.—Bay-Rum, Camphorated Oil, Castor-Oil: Cascara, Aromatic; Spirit of Camphor, Spirit of Niter, Tincture of Arnica, Glycerin, Rose-Water and Glycerin, Bay-Rum and Glycerin, Rose-Water, Witch-Hazel, Paregoric, Elixir Catnip and Fennel; Spirit of Ammonia, Aromatic; Antiseptic Solution, Alkaline Antiseptic Solution, Tincture of Iron, Carbolic Acid; Carbolic Acid, Ten Per Cent.; Tincture of Iodin, Tincture of Aconite, Tincture of Lobelia, Extract Ergot, Syrup Ipecac, Spirit of Ether, Syrup of Rhubarb; Syrup Rhubarb, Aromatic: Syrup Squill; Syrup Squill, Compound; Tincture Benzoin; Tincture Benzoin, Compound; Tincture Capsicum and Myrrh, Toothache-Drops, Powdered Cream Tartar, Rhubarb Powder, Rochelle Salt, Saltpeter, Sulfur, Tartaric Acid; Turmeric, Powdered; Licorice, Powdered, Compound; Moth-Balls, Epsom Salt, Powdered Alum, Boric Acid, Flaxseed, and Flaxseed-Meal.
Claims use since Feb. 26, 1916.

143,872. (CLASS 2. RECEPTACLES.) ERICH STEUDEL, Chicago, Ill., assignor to Self-Locking Carton Company, Chicago, Ill., a Corporation of Illinois. Filed July 7, 1919. Serial No. 120,321.

EVER-READY

Particular description of goods.—Bands for Wrapping Cake and Pie.
Claims use since June 9, 1919.

143,873. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICHOLAS L. THOMAS, O'Fallon, Ill. Filed Nov. 21, 1918. Serial No. 114,305.

CUTANE

Particular description of goods.—Preparation for the Treatment of Skin.
Claims use since Nov. 1, 1913.

143,874. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) G. & J. TIRE COMPANY, Indianapolis, Ind. Filed Feb. 15, 1921. Serial No. 143,625.

HERRINGBONE

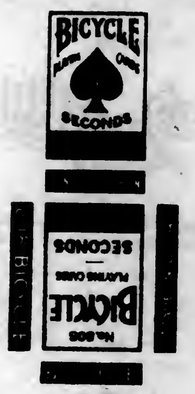
Particular description of goods.—Vehicle-Tires Made of Rubber.
Claims use since December, 1918.

143,875. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed Dec. 30, 1919. Serial No. 126,662.

Crepette

Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 19, 1919.

143,876. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 30, 1920. Serial No. 135,625.



Particular description of goods.—Playing-Cards.
Claims use since about 1898.

143,877. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE R. WALLACE & SONS MFG. CO., Wallingford, Conn. Filed Dec. 13, 1920. Serial No. 141,056.

R·WALLACE

Particular description of goods.—Silver-Plated Flat-Ware and Hollow Ware—Namely, Knives, Forks, Spoons, Ladles, Tongs, Servers, Trays, Shears, Bottle-Openers, Nut-crackers, Salad Sets, Dishes, Tea and Coffee Sets, Waiters, Meat-Dishes, Pitchers, Bowls, Plates, Cups, Saucers, and Urns.
Claims use since June, 1918.

143,878. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Mar. 22, 1920. Serial No. 130,078.

THE MARK
OF
MASTER MAKERS

Particular description of goods.—Writing-Paper Tablets, Composition-Books, Note-Books and Memorandum-Books, Stenographers' Note-Books, Block-Pads, Typewriter-Paper, Papeteries, Writing-Paper, Mailing-Envelops, and Correspondence-Cards.
Claims use since Mar. 11, 1920.

LABELS

REGISTERED JUNE 14, 1921.

22,992.—*Title:* "ALL STAR ASSORTMENT." (For Packages Containing Toy Balloons.) RICHARD D. BAKROW & SON, Louisville, Ky. Filed February 4, 1921.

22,993.—*Title:* "ALL STAR ASSORTMENT." (For Packages Containing Toy Balloons.) RICHARD D. BAKROW & SON, Louisville, Ky. Filed February 4, 1921.

22,994.—*Title:* "CORMOND WATER." (For Washing and Cleaning Preparation.) A. C. BLENNER & CO., INC., New Haven, Conn. Filed November 24, 1920.

22,995.—*Title:* "GLOBE." (For Tomatoes.) W. H. CAULEY, Goulds, Fla. Filed December 21, 1920.

22,996.—*Title:* "NOTAIR." (For Hair-Nets.) NATHAN B. COHEN, Scranton, Pa. Filed January 17, 1921.

22,997.—*Title:* "COLUMBINE GRINDING COMPOUND." (For Cans Containing Grinding Compound.) C. H. COLE, Denver, Colo. Filed January 14, 1921.

22,998.—*Title:* "DILL'S EZ-A-COLD." (For a Medicinal Preparation for Aid in the Treatment of Colds, Croup, Pneumonia Symptoms, Inflammation and Congestion of the Air-Passages, Burns, Bruises, Insect-Stings, Bronchitis, Neuralgia, Sprains, Tonsilitis, and Whooping-Cough.) THE DILL COMPANY, Norristown, Pa. Filed December 2, 1920.

22,999.—*Title:* "DR. DUFNER'S." (For Mouth-Antiseptic.) JAMES J. DUFNER, Minneapolis, Minn. Filed March 9, 1921.

23,000.—*Title:* "CREAM OF THE FOREST." (For Toilet-Paper, Paper Napkins, Towels, and Table Cloths.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed September 21, 1920.

23,001.—*Title:* "MELOINE." (For Receptacles Containing Meloine, a Preparation Used in the Manufacture of Ice-Cream.) B. HELLER & CO., Chicago, Ill. Filed February 10, 1921.

23,002.—*Title:* "COLD-STORINE." (For Cartons Containing Cold-Storine, a Preparation for Keeping Meat Products.) B. HELLER & CO., Chicago, Ill. Filed February 10, 1921.

23,003.—*Title:* "HOLLIS' DIAMOND BRAND MALT SYRUP." (For Glass Bottles, Cans, Tins, and Any Other Receptacles Containing Malt-Syrup.) ADOLPH HOLLIS, Brooklyn, N. Y. Filed May 7, 1921.

23,004.—*Title:* "SNOWHITE." (For Clothing, Walls, Woodwork, &c., for Cleaning Purposes.) HOUSEHOLD PRODUCTS COMPANY, Detroit, Mich. Filed February 16, 1921.

23,005.—*Title:* "QUEEN ANNE SOAP." (For Soap.) LAUTZ BROS. & CO., Buffalo, N. Y. Filed February 7, 1920.

23,006.—*Title:* "PETE WENDLING." (For Cigars.) A. M. LEON & CO., New York, N. Y. Filed October 22, 1920.

23,007.—*Title:* "BROMO-ASPIRIN." (For Pharmaceutical Preparations.) JOSEPH B. MCMANES, Columbus, Ohio. Filed January 10, 1921.

23,008.—*Title:* "QUALITY BREAD." (For Wax-Paper Wrappers Containing Bread.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Greensburg Baking Co., Greensburg, Pa. Filed January 3, 1921.

23,009.—*Title:* "JERSEY GOLD." (For Butter.) MOUNTAIN GROVE CREAMERY, ICE AND ELECTRIC COMPANY, Mountain Grove, Mo. Filed December 21, 1920.

23,010.—*Title:* "TURKEY TROT CIGARS." (For Boxes Containing Cigars.) FRED H. NUTTLEMAN, Westhoff, Tex. Filed January 7, 1921.

23,011.—*Title:* "GRANNY WHITE'S REMEDY." (For a Preparation for Treatment of Catarrhal Conditions of the Vaginal Mucous Membrane, Inflammation, and Leucorrhea.) MARK RATHBURN, Omaha, Nebr. Filed October 18, 1920.

23,012.—*Title:* "REEDLEY." (For Canned Apricots.) REEDLEY CANNING CO., Reedley, Calif. Filed December 21, 1920.

23,013.—*Title:* "'HUMMING-BIRD' AIRPLANE." (For Toy Airplanes.) SCIENTIFIC PRODUCTS CO., Baltimore, Md. Filed August 2, 1920.

23,014.—*Title:* "TOSCANOX BOX." (For a Cigar-Box.) THE STATE LEAF TOBACCO CO., New York, N. Y. Filed January 3, 1921.

23,015.—*Title:* "QUICK-GRO PLANT FOOD." (For Plant Food.) EDWARD G. STEITZ, St. Louis, Mo. Filed November 23, 1920.

23,016.—*Title:* "THREE IN ONE MALT EXTRACT." (For Cans Containing Malt Extract Made of Malt, Hops, and Sugar.) HARRISON D. STERRICK, Pittsburgh, Pa. Filed July 8, 1920.

23,017.—*Title:* "ROSE CITY MIXED PAINT." (For Mixed Paints.) SUPERIOR BUILDERS SUPPLY CO., Little Rock, Ark. Filed September 20, 1920.

23,018.—*Title:* "AUTO-BRITE." (For a Liquid Compound for Cleaning, Polishing, and Brightening Automobiles.) CHARLES M. TAYLOR, Jr., Philadelphia, Pa. Filed May 11, 1920.

23,019.—*Title:* "PERFEX." (For Typewriter Carbon-Paper.) U. S. MANIFOLD COMPANY, Chicago, Ill. Filed January 6, 1921.

23,020.—*Title:* "HELEN WARE'S COMPLEXION CREAM." (For Receptacles Containing Complexion-Cream.) WARE MFG. CO., Cleveland, Ohio. Filed August 11, 1920.

PRINTS

REGISTERED JUNE 14, 1921.

5,619.—*Title:* "AUTO INDICATOR." (For Auto-Indicator.) AUTO INDICATOR COMPANY, Grand Rapids, Mich. Filed December 31, 1920.

5,620.—*Title:* "SOME IMITATION." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed January 13, 1921.

5,621.—*Title:* "DE LUE'S GOLDEN GIANT NEW EARLY HYBRID SWEET CORN." (For Advertising Purposes for Seed-Corn.) FREDERICK S. DE LUE, Needham, Mass. Filed June 8, 1920.

5,622.—*Title:* "RAT AND MOUSE EMBALMER." (For Felix Girard Rat and Mouse Poison.) THE FELIX GIRARD CO., INC., Minneapolis, Minn. Filed March 12, 1920.

5,623.—*Title:* "HEINZ TOMATO KETCHUP BEEF LOAF." (For Advertising Purposes for Heinz Tomato Ketchup.) H. J. HEINZ CO., Pittsburgh, Pa. Filed January 3, 1921.

5,624.—*Title:* "HEINZ TOMATO KETCHUP WHEN YOU ARE WONDERING ABOUT THE DISTINCTIVELY DELICIOUS FLAVOR OF HEINZ TOMATO KETCHUP." (For Advertising Purposes for Heinz Tomato Ketchup.) H. J. HEINZ CO., Pittsburgh, Pa. Filed January 12, 1921.

5,625.—*Title:* "HEINZ CREAM OF TOMATO SOUP MADE WITH REAL CREAM." (For Advertising Purposes for Heinz Cream-of-Tomato Soup.) H. J. HEINZ CO., Pittsburgh, Pa. Filed January 12, 1921.

5,626.—*Title:* "JUST LIKE DAD'S." (For Advertising Purposes for One-Piece Garments.) H. D. LEE MERCANTILE CO., Salina, Kans., and Kansas City, Mo. Filed August 9, 1919.

5,627.—*Title:* "PHYS-I-OG-NOMY HAT CHART." (For Advertising Purposes for Hats.) GEORGE J. LINDEN, Worcester, Mass. Filed December 3, 1920.

5,628.—*Title:* "NEPTUNE'S DAUGHTER." (For Advertising Purposes for Bathing-Suits.) NIAGARA KNITTING MILLS CORP., New York, N. Y. Filed January 23, 1920.

5,629.—Title: "YOU CERTAINLY PUT JOY IN YOUR LANGUAGE WHEN YOU CALL FOR PRINCE ALBERT." (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed February 10, 1921.

5,630.—*Title:* "THE BIG GIFT FOR THE BIG DAY." (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed February 10, 1921.

5,631.—*Title:* "SLIP ST. NICK THE P. A. WINK." (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed February 10, 1921.

5,632.—*Title:* "TALK ABOUT TURNING OVER A NEW LEAF—." (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed February 10, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BERGHOFF BREWING ASS'N *v.* POPEL-GILLER CO., INC.

Decided April 4, 1921.

1. TRADE-MARKS—ACQUISITION—AFFIXING MARKS TO GOODS.

"It is settled law in this court that a trade-mark is not acquired by the invention or discovery of a word or symbol, or by advertisement. It only becomes a trade-mark by attaching or affixing it to certain articles of merchandise." Therefore the mere use of "Burg" as an abbreviation for the word "Burgmeister" in conversation or in written orders for goods is not sufficient to establish a trade-mark use.

2. SAME—CONFLICT—"BERGO" AND "BURGMEISTER."

There is no conflict between the marks "Bergo" and "Burgmeister."

3. SAME—EXTENSION OF MARKS TO SIMILAR GOODS.

The owner of a mark may extend its use to goods of the same descriptive properties; but the right of extension applies only to the specific mark and not to a similar mark. The extension of the mark "Burg Brau" on beer to "Burg" on non-alcoholic beverages would not come within the rule, since the marks are radically different; nor would the use of the mark "Burg Brau" for lager-beer or its extension to non-alcoholic cereal beverages produce confusion with the word "Bergo" on non-alcoholic cereal beverages.

Mr. H. J. Jacobi, *Mr. J. L. Stewart*, and *Mr. S. R. Perry* for the Berghoff Brewing Ass'n.

Mr. A. E. Wallace for the Popel-Giller Co., Inc.

VAN ORSDEL, *J.*:

This is a trade-mark interference, in which the appellant, Berghoff Brewing Ass'n, applied to register the word "Bergo" as a trade-mark—

for a non-alcoholic, maltless cereal beverage, sold as a soft drink.

Appellee, Popel-Giller Co., Inc., applied to register the word "Burg" as a trade-mark for a—

non-intoxicating non-alcoholic cereal maltless beverage sold as a soft drink.

It is conceded, as indeed, it must be, that the goods are of the same descriptive properties, and that the marks are deceptively similar. Appellant adopted and used the mark "Bergo" in 1917, while appellee did not show use of its mark "Burg" prior to 1918. At this point, the controversy could be easily disposed of in appellant's favor, but it appears that in 1916 appellee company was using the word "Burgmeister" as the dominating feature of a mark for beer. It appears that customers occasionally ordered "Burgmeister" beer by the abbreviated name of "Burg." It is, therefore, urged that appellee company has established a prior use of the word "Burg" and should be accorded registration. On this point the Examiner of Interferences turned the case in favor of appellee company.

We are not impressed by this contention. The mere use of "Burg" as an abbreviation for the word "Burgmeister," in conversation or in written orders for goods, is not sufficient to establish a trade-mark use.

It is settled law in this court, that a trade-mark is not acquired by the invention or discovery of a word or symbol, or by advertisement. It only becomes a trade-mark by attaching or affixing it to certain articles of merchandise. (*Consumers Co.* v. *Hydrox Chemical Co.*, 40 App. D. C., 284.)

There is no proof that appellee ever attached the word to goods of the kind for which it is sought to register it as a trade-mark prior to 1918. Its adoption, if adopted at all, was by its customers, not as a mark to designate the goods, but as a name to designate goods bearing the mark "Burgmeister." This did not, therefore, constitute a trade-mark use. (*Coca-Cola Co.* v. *Branham*, 216 Fed., 264.)

There is no room for the assumption of confusion between the marks "Bergo" and "Burgmeister." There is testimony, however, by witnesses for appellee that, since 1907, it has used the trade-mark "Burg Brau" on lager-beer. It is accordingly insisted that it may now claim "Burg" as a logical extension of the use of the original mark to non-alcoholic cereal beverages. The rule relating to the use of marks in the natural development of business extends only to the use of the same mark on goods of the same descriptive properties. In the case of *re Independent Breweries Co.* (39 App. D. C., 118) we held that beer and a beverage containing less than one-half of one per cent. alcohol are goods of the same descriptive properties, and in *Sexton and Co.* v. *Schoenhofen Co.*, this day decided, we held cereal beverages, alcoholic and non-alcoholic, to be goods of the same descriptive properties within the Trade-Mark Act. We also upheld

the right of the owner of a trade-mark to extend its use from alcoholic to non-alcoholic cereal beverages. But the right of extension applies only to the specific mark, and not to a similar mark. The extension of the mark "Burg Brau" on beer to "Burg" on non-alcoholic beverages, would not come within the rule, since the marks are radically different. Nor would the use of the mark "Burg Brau" on lager-beer, or its extension to non-alcoholic cereal beverages lead to confusion with the use of the mark "Bergo" on non-alcoholic cereal beverages.

It, therefore, follows that registration should be accorded appellant company, and denied to appellee company.

The decision is reversed.

Reversed.

Court of Appeals of the District of Columbia.

DUNHAM *v.* DYSON AND ERICKSON. DYSON *v.* ERICKSON AND DUNHAM.

Decided April 4, 1921.

1. PATENTS—INTERFERENCE—CONCURRING DECISIONS OF OFFICE TRIBUNALS.

Where the Examiner of Interferences and the First Assistant Commissioner found that an applicant had failed to establish conception of the invention in issue prior to his filing date, while the Examiners-in-Chief found an earlier conception date, but in a later companion interference the Examiners-in-Chief held, on evidence substantially, if not exactly, the same, that such applicant had failed to establish conception prior to his filing date and refused on rehearing to recede from this position, it is concluded that the three tribunals are in accord upon the point that applicant is limited to the filing date for conception.

2. SAME—SAME—DILIGENCE IN PERFECTING ELECTRIC SWITCH.

An inventor of a complicated switch for an automatic telephone system was reasonably diligent when he was actively experimenting for less than eight months before filing.

Mr. J. G. Roberts and *Mr. G. W. Rich* for Dunham.

Mr. C. B. Camp, Mr. C. C. Bulklet, and *Mr. C. C. Bradbury* for Dyson *et al.*

SMYTH, *C. J.*:

We have before us appeals in three interferences numbered respectively 34,534, 39,810, and 39,614. The issues of all are very closely related. We shall, however, consider them separately.

We take up first 34,534. In this the contest is between Dyson, Erickson and Dunham. As stated by the First Assistant Commissioner, the invention of this interference relates to automatic telephone systems and has for its object the reduction of the number of first selector switches. Prior to the time this invention was made it had been the practice to employ a first selector-switch for each subscriber. The parties here sought to simplify the system by using what is termed a line-switch for each subscriber and a smaller number of first-selector switches, say ten for each one hundred subscribers, each selector being connected to all of the line-switches, so that when a call was initiated by any subscriber his line-switch would connect to the trunk leading to a selector which was not "busy."

The Examiner of Interferences refused to give Dyson any earlier date for conception than March 13, 1905, the date on which he filed. The Examiners-in-Chief thought he conceived in December, 1903, but was the last of the three rivals to reduce to practice; was lacking in diligence when Erickson and Dunham came into the field and consequently must be assigned a date subsequent to them. The First Assistant Commissioner seems to agree with the Examiners-in-Chief as to Dyson's date of conception but held that even if he did conceive when the Examiners said he did, he was the last to reduce to practice and was not diligent in the meantime. We have, then, the three tribunals in effect concurring on the point that even if Dyson was the first to conceive, he was the last to reduce to practice and was not diligent just before Dunham and Erickson became active. The question is one of fact, and not perceiving that the conclusion reached is clearly wrong we approve it on the authority of *Greenawalt* v. *Dicight*, (49 App. D. C., 82; 258 Fed., 982, and cases cited;) *Kennicott* v. *Caps* (49 App. D. C., 187; 262 Fed. Rep., 641;) *Hopkins* v *Rigger*, (49 App. D. C., 188; 262 Fed. Rep., 642;) *Allen* v. *Hill*, 50 App. D. C.,——; 270 Fed. Rep., 691;) *Nelson C. Massey et al.* v. *Herman De Witt Ridge*, (50 App. D. C., ——; 270 Fed. Rep., 879;) *John Stewart Thomson et al.* v. *George T. Pearsons*, (50 App. D. C., ——; 270 Fed. Rep., 1013,) and *Ball* v. *Barnhurst*, (50 App. D. C., ——; 270 Fed. Rep., 693.)

Dyson being out of the running, the contest is between Dunham and Erickson. Dunham filed October 6, 1904. The Examiner of Interferences, after analyzing the testimony, found that he had not conceived before that date, but the Examiners-in-Chief believed he had and gave him July 26, 1904, for conception, and his filing date for reduction to practice. The First Assistant Commissioner agreed with the Examiner of Interferences. Later, in No. 39,810, the Examiners-in-Chief held on evidence substantially, if not exactly, the same as in this case, that Dunham must be confined to his filing date for conception and refused to recede from this position on a motion for rehearing. The three tribunals consequently must be regarded as being in accord upon the point that Dunham should be limited to his filing date for conception and reduction to practice. We think this conclusion is fully sustained by the evidence.

Turning now to Erickson's case we find that the Examiner of Interferences, after a very brief review of Erickson's evidence, refused to give him a date for conception prior to that which he had awarded to Dunham, October 6, 1904. The Examiners-in-Chief and the First Assistant Commissioner went into the testimony quite thoroughly and they concur in the view that he was entitled to a date prior to July 26 for conception. It appears to us satisfactorily that in the summer of 1904 Erickson built two switches, known as the first and second specimens, which disclosed a conception of the

issue; that the first was constructed, and that he was working on the second, before July 26.

Was Erickson diligent just before Dunham came into the field? In view of the conclusion which the Examiner of Interferences reached with respect to Erickson's conception, he had no occasion to consider his diligence. The Examiners-in-Chief reviewed the testimony relating to this subject critically and at length. They pointed out that the invention was a complicated one, requiring many experiments to give it practical form, and that Erickson was active either personally or through others from the time of his conception until he filed on March 10, 1905; and they held that he was diligent throughout. In this conclusion the First Assistant Commissioner concurs.

The question of reasonable diligence in any case depends, of course, upon all the circumstances. A complicated invention, requiring many experiments and much study to give it practical form, would reasonably delay a reduction to practice after the first conception for a greater length of time than where the idea and the machine embodying it were of a simple character. (*Christie* v. *Seybold*, C. D. 1893, 515; 65 O. G., 1650; 55 Fed. Rep., 69. See also *O'Connell* v. *Schmidt*, C. D., 1906, 662; 122 O. G., 2065, 27 App. D. C., 77.)

For the reasons given by the Examiners-in-Chief, and approved by the First Assistant Commissioner, we are persuaded that Erickson should prevail.

No. 39,810: The issue of this interference consists of four counts, and, like the previous one, concerns automatic telephone systems, involving certain details of a line-switch and its associated circuit. The parties, the dates involved, and the testimony, so far as material, and the conclusions of the three tribunals, are the same as in No. 34,534. Erickson was awarded priority, and we think this is correct.

No. 39,614: The contest here is between Erickson and Dunham. The invention relates, as in the other interferences, to telephone systems and is defined in two counts. The testimony is the same as in No. 39,810. The Examiner of Interferences awarded priority to Dunham. He was reversed by the Examiners-in-Chief, who held in favor of Erickson. In this they were affirmed by the First Assistant Commissioner. Each tribunal supports its conclusion by substantially the same reasoning as it advanced in No. 39,810. We are convinced that Erickson is entitled to succeed.

The decision of the First Assistant Commissioner in each of the interferences is affirmed.

Affirmed.

Mr. Justice HITZ, of the Supreme Court of the District, sat in the place of Mr. Justice ROBB.

Court of Appeals of the District of Columbia.

BEECHNUT CEREAL COMPANY *v.* BEECH-NUT PACKING COMPANY.

Decided May 2, 1921.

TRADE-MARKS—"BEECHNUT"—PART OF NAME OF OPPOSER—NOT REGISTRABLE.

The word "Beechnut" as a trade-mark for cereal breakfast foods denied registration on the ground that it is a substantial part of the name of opposer—the Beech-Nut Packing Company—which was organized long prior to applicant's entry into the field.

Mr. Vernon E. West and *Mr. S. W. Banning* for Beechnut Cereal Company.

Mr. J. H. Milans and *Mr. C. T. Milans* for Beech-Nut Packing Company.

PER CURIAM:

Appeal from a decision of the Patent Office sustaining the opposition of the Beech-Nut Packing Company, appellee here, to the registration by the appellant of the term "Beechnut" as a trade-mark for cereal breakfast foods.

"Beech-Nut" being a substantial part of the corporate name of the appellee company, which was organized long prior to appellant's entry into the field, the case is ruled by prior decisions of this court. (*Mansfield Tire & Rubber Co.* v. *Ford Motor Co.*, 44 App. D. C., 205; *in re United Drug Co.*, 44 App. D. C., 209; *Burrell* v. *Simplex Electric Heating Co.*, 44 App. D. C., 452, and *Howard Co.* v. *Baldwin Co.*, 48 App. D. C., 437.)

The decision is affirmed.

Court of Appeals of the District of Columbia.

CADMAN *v.* HUDSON.

Decided May 2, 1921.

PATENTS—PRIORITY—DILIGENCE.

Where the junior party, Hudson, made drawings of the autotruck-trailer in issue prior to July, 1916, and work was done on the invention by checking over these drawings during August, and on September 29, 1916, a trailer was ordered to be constructed and was promptly built in accordance with the drawings, he cannot be charged with lack of diligence.

Mr. L. B. Smith for Cadman.

Mr. H. A. Toulmin and *Mr. H. A. Toulmin, Jr.*, for Hudson.

MEMORANDUM OPINION BY MR. JUSTICE VAN ORSDEL.

This appeal is by the senior party Cadman from the decision of the Commissioner of Patents awarding priority of invention to the appellee Hudson. The invention relates to steering mechanism for four-wheel trailers for autotrucks. It is conceded Hudson was the first to conceive the invention. We think the evidence discloses, as held by the Commissioner and Board of Examiners, that Cadman reduced to practice about the middle of November, 1916, and that the Hudson reduction occurred a few weeks later. The case turns upon the question of Hudson's diligence when Cadman entered the field.

The date of conception accorded Cadman, August 31, 1916, is supported by the testimony. Hudson discloses drawings illustrating the invention, which were made prior to July, 1916. Work was done in checking over these drawings during August, and, on September 29, 1916, Hudson ordered a trailer constructed. A trailer was promptly built in accordance with the drawings. On this showing, which is fully supported by the record, we find no basis for the charge of lack of diligence on the part of Hudson.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE REID BROS.

Decided May 2, 1921.

TRADE-MARKS—DESCRIPTIVE MARKS—"EFFICIENCY."

A mark for hot-water bottles consisting of a shield bearing the word "Efficiency" in ordinary block type is descriptive.

Mr. H. C. Robb for Reid Bros.

Mr. T. A. Hostetler for the Commissioner of Patents.

PER CURIAM:

Appeal from a decision of the Patent Office refusing to register as a trade-mark for hot-water bottles, ice-bags and certain other hospital supplies, a shield bearing the word "Efficiency" in ordinary block type, the ground of the decision being that the mark is descriptive.

We are constrained to hold that this case is controlled by our decision in *in re Crosby Steam Gage & Valve Company*, (47 App. D. C., 382,) in which it was ruled that the words "High Efficiency" were not registrable as a trade-mark for safety relief-valves because "more descriptive than suggestive." Accordingly, the decision is affirmed.

Court of Appeals of the District of Columbia.

WASSERFALLEN *v.* STRIFLER.

Decided May 2, 1921.

PATENTS—PRIORITY—CONCURRING DECISIONS OF PATENT OFFICE.

Decision of the Commissioner of Patents, not being clearly wrong and the case turning upon a question of fact, on which all tribunals of the Patent Office concurred, affirmed.

Mr. O. F. Barthel and *Mr. T. K. Bryant* for Wasserfallen.

Mr. F. S. Lyon for Strifler.

PER CURIAM:

Appeal from the Commissioner of Patents in an interference proceeding involving an invention for attachments to automobiles for carrying spare rims and tires. The case turns solely upon issues of fact. The tribunals of the Patent Office concurred in awarding priority to Strifler. A careful review of the record convinces us that no error has been committed.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Patents Nos. 1,381,897 to 1,382,610.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Issue of June 21, 1921.

Patents	714—No.	1,381,897 to No.	1,382,610, inclusive.
Designs	27—No.	58,176 to No.	58,202, inclusive.
Trade-Marks	278—No.	143,879 to No.	144,156, inclusive.
Labels	4—No.	23,021 to No.	23,024, inclusive.
Prints	21—No.	5,633 to No.	5,653, inclusive.
Reissues	6—No.	15,127 to No.	15,132, inclusive.
Total	1050		

Order of Examination Where Division Has Been Required.

(ORDER NO. 2,670.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 24, 1921.

Where the first action by the Examiner upon an application is limited to a requirement for division, the application will thereafter be given preference in the order of examination over other applications previously acted upon until it has received one action upon the merits, provided the applicant makes prompt response to the Examiner's requirement for division.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,233,176.

On May 27, 1921, a decision was rendered that Percy Douglas Brewster was not the first inventor of the subject-matter covered by claims 1, 3, and 15 of his Patent No. 1,233,176, subject, "Apparatus for printing cinematographic films," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,351,953.

On May 25, 1921, a decision was rendered that Nils D. Levin was not the first inventor of the subject-matter covered by claims 25 and 27 of his Patent No. 1,351,953, subject, "Loading-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,355,380.

On May 25, 1921, a decision was rendered that Ernest H. Baxter was not the first inventor of the subject-matter covered by claims 1 and 4 of his Patent No. 1,355,380, subject, "Transmission-locks," and no appeal having been taken within the time allowed such decision has become final.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mich.) The Schultz and Sweeny patent, No. 999,678, for seat-back springs for vehicles, *Held* void for lack of novelty, and also not infringed. *Schultz et al.* v. *Jackson Cushion Spring Co.*, 271 Fed. Rep., 665.

(U. S. D. C. N. Y.) The Welles patent, No. 1,101,223, claim 1, for a wooden fish-bait, the novelty in which was asserted to arise from the so-called "throat," *Held* not valid in view of evidence that the throat performed no useful function, and, if valid, not infringed by a bait having no throat. *James Heddon's Sons et al.* v. *Rush et al.*, 271 Fed. Rep., 689.

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)
Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)
Original application. (Facsimile petition, specification, oath, and drawings at present time.)
Specification as originally filed. (As received in Office.)
Specification as amended. (With amendments entered.)
Specification as allowed. (As passed by the Examiner for issue.)
Original specification. (Facsimile at present time.)
File-wrapper. (File-wrapper only.)
File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)
File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)
Assignment. (Give the liber and page of the record as well as the name of the inventor.)
Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

APPLICATIONS UNDER EXAMINATION.

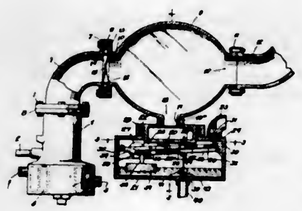
Condition at Close of Business June 11, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders....	Jan. 26	Jan. 8	687
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 8	Nov. 20	1,512
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 13	Oct. 8	778
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	July 19	Mar. 8	1,492
167	5. Book-Making; Books, Strips and Leaves; Harvesters: Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 10	Nov. 12	685
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 10	Mar. 9	856
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 10	Feb. 21	1,456
121	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 10	Apr. 29	588
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 20	767
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 13	Mar. 9	1,128
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Mar. 15	Mar. 29	375
222	12. Machine Elements	Nov. 9	Mar. 17	1,039
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Aug. 25	Mar. 7	1,552
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 9	Apr. 25	884
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 1	Oct. 15	1,599
111	16. Radiant Energy; Telegraphy; Telephony	Aug. 7	Nov. 10	1,450
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Mar. 1	780
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Sept. 7	Dec. 6	1,501
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Sept. 27	Jan. 3	881
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 3	Feb. 8	1,104
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 20	Mar. 28	510
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Mar. 10	Apr. 19	382
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 23	Apr. 1	769
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Nov. 26	Mar. 25	890
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 16	Apr. 7	250
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 13	Jan. 8	778
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 1	Mar. 19	1,028
225	28. Internal-Combustion Engines	Oct. 22	Feb. 10	1,223
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Nov. 19	Apr. 1	691
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 24	Apr. 12	980
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 24	Oct. 11	2,014
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 1	Mar. 1	1,085
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 9	Feb. 19	760
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Stors Service; Track-Sanders: Vehicle-Fenders.	Apr. 21	May 13	299
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	Apr. 22	Apr. 29	487
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments: Force Measuring	Jan. 21	Jan. 7	1,503
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 12	Dec. 11	1,803
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Jan. 10	Jan. 24	982
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	July 13	Sept. 17	1,667
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Nov. 15	Jan. 21	1,799
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Nov. 5	Feb. 18	852
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Oct. 1	Oct. 23	1,991
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Sept. 2	Aug. 17	1,296
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Sept. 7	Apr. 16	493
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Oct. 20	Mar. 8	1,047
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 13	Feb. 10	785
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Oct. 16	Jan. 3	1,058
	Oldest new case, July 1; oldest amended, Aug. 17.			
	Total number of applications awaiting action			48,536
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 21	Apr. 11	4,876
	Designs	Oct. 11	Dec. 10	2,248
	Labels and Prints	Apr. 1	May 20	450

PATENTS

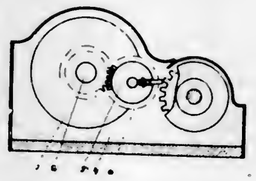
GRANTED JUNE 21, 1921.

1,381,897. CARBURETER. FRED D. ACKLEY, Seattle, Wash. Filed May 28, 1920. Serial No. 385,046. 1 Claim. (Cl. 137—103.)



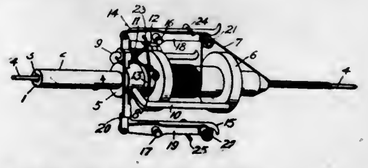
A liquid fuel discharge control including a drum to receive liquid gas particles in the gas stream between the carbureter and the intake manifold, a tank removably supported by the drum, an opening controlled by a valve between said drum and tank, an air inlet to the drum controlled by a valve, a lever pivotedly supported in the drum and actuating said valves in opposite directions, a disk for operating said lever, a valve controlled fluid outlet from the tank, a lever supported within said tank and adapted to actuate said valve for the fluid outlet, and a float connected to said last mentioned lever and adapted to operate the disk, whereby the valve between the drum and tank are reversely actuated, and the air inlet control valve is actuated reversely to the valve between the drum and tank.

1,381,898. CALCULATING-MACHINE. WICTOR OSKAR JULIUS ANDERSSON, Malmo, Sweden. Filed June 3, 1919. Serial No. 301,533. 3 Claims. (Cl. 235—79.)



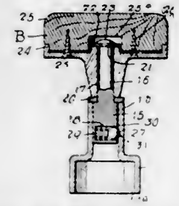
1. In a calculating machine, the combination with a setting mechanism including disks, mechanism adapted to receive a value transmitted from the setting mechanism, a revolutions counting mechanism comprising numeral wheels and gear wheels and adapted for counting the revolutions of the crank operating the setting mechanism, of a pin rotating together with the setting disks and normally meshing with one of the gear wheels in the revolutions counting mechanism at every revolution of the crank, said pin being swingable in a direction transversely of the last mentioned gear wheels, and means for operating said pin from outside of the machine casing.

1,381,899. WINDING-MACHINE. GEORGE F. ATWOOD, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,618. 7 Claims. (Cl. 28—6.)



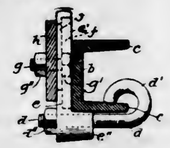
2. In a serving head, a spool for carrying the serving material, a brake for the spool and centrifugally balanced means controlled by the serving material for automatically controlling the brake.

1,381,900. SOCKET-WRENCH. WILLIAM BARNES, Worcester, Mass., assignor to Walden Worcester, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1918. Serial No. 230,243. 4 Claims. (Cl. 81—121.)



4. The combination with a wrench socket, of a plygonal shank formed with a reduced and axially disposed stem and provided at the end of the stem with a shoulder, a base plate rotatable on the stem, a washer fitted on the stem and confined thereon between the base plate and the shoulder and extending beyond the shank, and a hand block applied to the base plate.

1,381,901. BUMPER-ATTACHING DEVICE. SIDNEY A. BECK, Burlingame, Calif., assignor to Hoover Spring Company, San Francisco, Calif., a Corporation of California. Filed Feb. 14, 1921. Serial No. 444,670. 2 Claims. (Cl. 293—55.)



2. Means for adjustably mounting bumpers on automobile-frames including a slotted hanger-block secured to the automobile frame; a fastening device for securing the hanger-block to the automobile-frame; a bumper-attaching

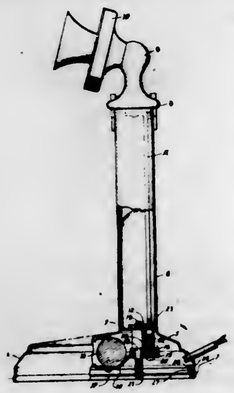
iron free from engagement by the fastening device and freely movable up and down along the slot in the hanger-block; and means mounted in the slot for securing the bumper-attaching iron to the hanger-block when the iron is in the position desired.

1,381,902. LEDGER-TRAY. JOHN EMMONS BEMIS, Cedar Rapids, Iowa. Filed June 21, 1920. Serial No. 390,543. 4 Claims. (Cl. 45—58.)



1. A device of the class described comprising a pair of upright end members arranged to face each other, a plurality of horizontally alined bottom slats, alternate slats being rigidly secured to the same end member, whereby the ends are movable longitudinally with respect to the device, means for limiting the longitudinal movement of said end members, and an extensible side arm connected with the side edges of said end members.

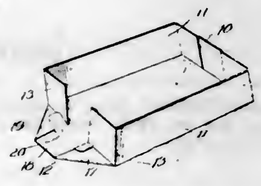
1,381,903. TELEPHONE DESK SET. PETER C. BURNS, Chicago, Ill., assignor to American Electric Co., Chicago, Ill., a Corporation of Illinois. Filed June 16, 1920. Serial No. 390,209. 7 Claims. (Cl. 179—147.)



1. In a telephone desk set, a hollow base, a supporting member extending upwardly from said base, an induction coil within said base, a bracket for supporting said induction coil and provided with a lateral extension, a terminal block mounted upon said extension, and a bolt passing through said bracket and terminal block, said bolt being provided with a threaded end portion extending through the upper portion of said base and through the lower end of said supporting member.

1,381,904. WRAPPER. JOHN L. CHRISTENSEN, Chicago, Ill. Filed July 28, 1919. Serial No. 313,724. 8 Claims. (Cl. 229—40.)

1. A blank having, in combination, a central portion bounded by side and end flaps and defined by crease lines extending beyond its corners across said side and end flaps to outline a corner flap at each corner of the blank, additional crease lines extending convergently and outwardly across the end flaps from the corners of said central portion at an angle to the end thereof and dividing said end flap into a central symmetrical trapezium flanked by two triangular portions, and tabs struck up from said trapezium adjacent the end of said central portion and adapted to fold along lines which are perpendicular to the end crease of said central portion and pass in prolongation approximately through the intersection of said convergent creases and the outer edge of the paper.

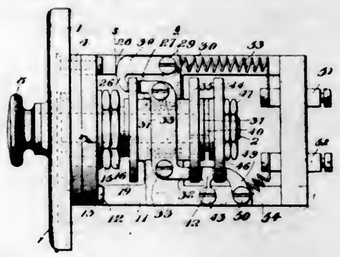


1,381,905. PILE-CUTTER. ALEXANDER CLAPPERTON, Yonkers, N. Y. Filed May 27, 1920. Serial No. 384,538. 5 Claims. (Cl. 139—23.)



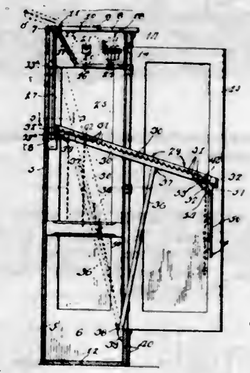
1. A pile cutter comprising a reciprocatory cross head, a knife pivoted thereon, and an actuating connection between the cross head and knife for throwing the knife into and out of cutting position before each reciprocation.

1,381,906. SAFETY SWITCH-LOCK. WILLIAM B. CLARK, Lyons Farm, N. J. Filed Apr. 13, 1920. Serial No. 373,619. 3 Claims. (Cl. 200—43.)



1. In circuit closing means, a frame, a shaft mounted on and disposed longitudinally of the frame, a plurality of non-conductive disks on said shaft, contacts carried by the disks, contact arms on the frame disposed for engagement with said contacts and adapted to complete an electrical circuit therethrough, certain of the faces of the non-conducting disks being formed with circularly disposed detents adjacent their points of bearing, spring pressed spherical checks slidably mounted in pockets formed in said frame and engageable with said ratchet teeth of the various disks, and means on said shaft for selectively engaging and rotating said disks with the same whereby to bring the contacts carried by said disks to positions for engagement with the contact arms.

1,381,907. FILING-CABINET. HAROLD L. DE LISLE, Chicago, Ill. Filed Apr. 29, 1920. Serial No. 377,509. 3 Claims. (Cl. 45—2.)



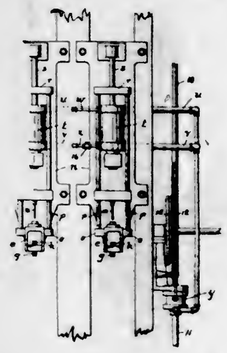
1. In a collapsible filing device of the class described, the combination of walls forming a cabinet having a front opening, a pair of spaced-apart guides in fixed substantially vertical position substantially parallel to each other in the upper rear portion of the cabinet, an open frame having means at the sides thereof for holding filing rods, filing rods held by the frame, means for holding the frame slidably and tiltably upon the guides whereby the frame may move in the longitudinal directions of the guides and also swing outwardly thereupon so as to extend in a forward direction away from the guides in one position of the frame and to extend downwardly and forwardly at an angle adapted to provide material space throughout the forward length of the frame for down-hanging sheets between the vertical planes of the rod-like supports and the front end of the frame, the front end of the frame being within the cabinet in said last-mentioned position, and means for holding the frame in its last-mentioned position.

1,381,908. BURIAL-CASKET. FRED O. DOWNER, Battle Creek, Mich., assignor to Shirley Brothers Company, Incorporated, Indianapolis, Ind. Filed Mar. 31, 1920. Serial No. 370,149. 1 Claim. (Cl. 27—7.)



A burial casket having a monolithic body and a separate monolithic cover, the upper corners of the cover being curved and each of said casket members being reinforced with wires woven to approximately a two inch mesh welded at the meeting places of the wires and formed into baskets with rigid walls and corners, the wires of said baskets being filled and covered with a cementitious material forming a light and readily portable casket the surfaces of which are finished smoothly and have a covering of thin material adhesively applied thereto, said body and cover meeting in a tongue and groove joint to keep the joined members in register, said joint being finally sealed with a water-proof cement.

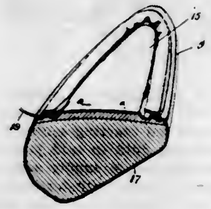
1,381,909. MACHINE FOR PACKING FUSES. ELEUTHERE PAUL DU PONT, Montchanin, Del. Filed May 13, 1918. Serial No. 234,316. 15 Claims. (Cl. 86—20.)



1. In a machine for packing time fuse powder in fuse containers, a holder comprising an abutment adapted to engage one end of the container, a support for the other end of the container movable toward and from the abutment, a turnable handle engaging the support, and a cam engaged by the handle and determining the distance of the support from the abutment.

6. In a machine for packing time fuse powder in fuse containers, the combination with a press comprising two members, one of said members being a holder for the container and the other a ram adapted to engage the bore of the container, of hydraulic mechanism for reciprocating one of said members; said hydraulic mechanism comprising a cylinder, a piston, pipes and a valve to control the direction of flow through the pipes, a check valve in one of said pipes adapted to permit a free flow of water in one direction, and means permitting a leakage through the check valve while it is seated during the flow of the water in the opposite direction.

1,381,910. METHOD OF MAKING TURN-SHOES. GEORGE FERGUSON, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 7, 1920. Serial No. 387,040. 5 Claims. (Cl. 12—142.)



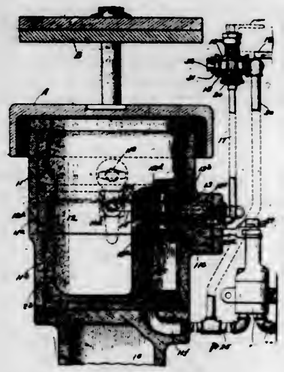
1. The method of making a turned shoe which comprises assembling wrong side out upon a last upper material and a sole provided with an upstanding rib spaced from the edge thereof, tensioning the upper material about the last and sole and fastening it to the top of the rib, sewing the upper to the rib by stitches which pass through the base of the rib, so that, as the stitches are drawn tight, a further tension is imparted to the upper material, and subsequently turning the shoe right side out and completing its manufacture.

1,381,911. GOVERNOR FOR PLAYER-PIANOS. CHARLES FREBORG, Kankakee, Ill., assignor to Price & Teeple Piano Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1919. Serial No. 314,524. 5 Claims. (Cl. 230—36.)



1. A governor for vacuum motors comprising a bellows member having a movable wall, and means to resist the collapsing of said bellows, said means comprising a pivoted bell crank, one end of said bell crank being attached to a spring member.
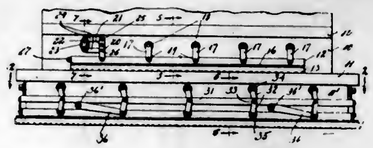
1,381,912. COMBINATION JOLT RAMMING AND SQUEEZING MACHINE. PHILETUS W. GATES, Chicago, Ill., assignor to Mumford Molding Machine Company, a Corporation of New Jersey. Filed Apr. 17, 1917. Serial No. 162,627. 2 Claims. (Cl. 121—14.)



1. In combination, a cylinder, a plunger reciprocably mounted therein, said cylinder and plunger having co-acting jolting portions and coacting squeezing portions, a duct to supply actuating fluid to said jolting portion of said cylinder, a second duct to supply actuating fluid to said squeezing portion of said cylinder and a third duct to permit flow of relief air to and from said squeezing cylinder during jolt ramming, a valve to open and close said second duct, and a valve to open said first and third named ducts simultaneously and to close said first and third-named ducts simultaneously.

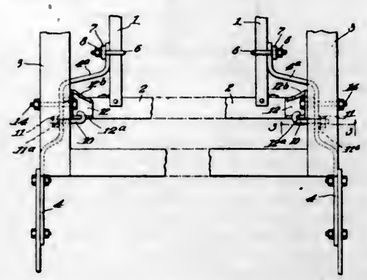
1,381,913. CARPET-ATTACHMENT DEVICE. WALTHER GLOOR and LOUIS HAACK, New York, N. Y. Filed Mar. 8, 1921. Serial No. 450,592. 12 Claims. (Cl. 16—26.)

2. In a device for attaching a carpet to a staircase, a stationary member and movable member for each riser, co-operating with each other to clamp the carpet, and means for moving each movable member parallel to itself and



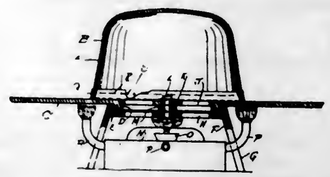
said stationary member, said members and means being concealed behind the carpet.

1,381,914. REAR BUMPER FOR FORD CARS. OSCAR H. GOETZ, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 15, 1920. Serial No. 424,012. 4 Claims. (Cl. 293—55.)



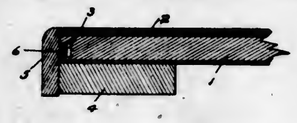
2. In combination with an automobile frame, a cross-bar and a member which crosses the end of the cross-bar above the same, making an upwardly, inwardly opening angle therewith and which laterally overhangs the end of the cross-bar, making an outwardly and downwardly opening angle therewith, a longitudinally extending bracket arm which abuts laterally against the end of said cross-bar in said downwardly and outwardly opening angle, and a hook bolt having its hook engaging said inwardly and upwardly opening angle and its stem extending through the bracket arm, and tightening means on the end of the bolt to draw the bracket arm into said outwardly and downwardly opening angle.

1,381,915. FORM FOR HAT-CROWNS. HARRY B. GOLDSTEIN, St. Paul, Minn. Filed May 18, 1920. Serial No. 382,303. 3 Claims. (Cl. 223—21.)



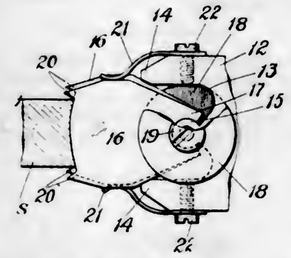
1. A hat blocking device, comprising, in combination, four coöperating elements, one a portable stand, another a brim supporting plate held by said stand and having an air circulating passage near its central portion another a crown element placed over said passage with its lower edge resting on said brim plate, and the other a heater having a burner placed below said passage in position to circulate heated air and gases up through said passage to heat said crown element.

1,381,916. DESK-TOP OR LIKE STRUCTURE AND METHOD OF MAKING SAME. WILLIAM A. GUNN, Grand Rapids, Mich. Filed May 3, 1920. Serial No. 378,412. 2 Claims. (Cl. 45—31.)



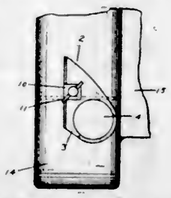
1. The method of making tops for desks or like furniture which consists in gluing a cover of flexible material to the upper side of the bed for the top, then cutting the bed and attached cover to size, and then gluing relatively narrow border strips to the sides and ends of the bed and the side and end edges of the cover and in conforming the strips to locate the upper edges thereof flush with the adjacent upper surface of the cover.

1,381,917. SOLE-EDGE-TREATING TOOL. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 8, 1919. Serial No. 322,445. 8 Claims. (Cl. 12—104.)



3. In a sole-edge setting machine, a holder, and a plurality of edge finishing irons yieldingly carried thereby side by side, said irons being mounted to present their operative surfaces in subetantially the same profile during all movements of the irons relatively to each other.

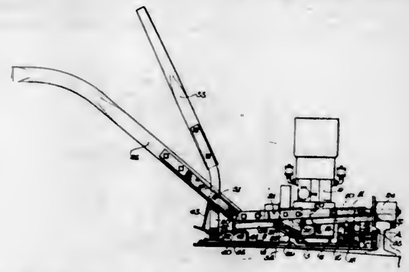
1,381,918. SIGNAL FOR MOTOR-VEHICLES. ROBERT S. HALL, Detroit, Mich. Filed Oct. 18, 1920. Serial No. 417,593. 6 Claims. (Cl. 116—37.)



1. In a signal for vehicles, the combination with a support, of an indicating member rotatably mounted on said support and normally occupying a predetermined position relative to said support, said indicating member being unbalanced to rotate from its normal position due to its inertia upon change of speed of the vehicle.

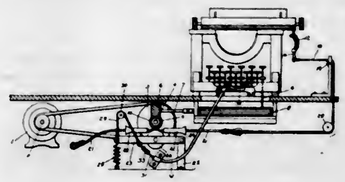
1,381,919. RAIL-DRILL. ARTHUR HANDY and CLIFFORD E. KRUEGER, Milwaukee, Wis. Filed July 17, 1919. Serial No. 311,565. 6 Claims. (Cl. 77—8.)

1. In a rail drill, the combination with a base, of a drill, means for driving the drill, means for feeding the drill, a frame operatively connected to the base and engaging the rail, and means controlled by the feeding means for rais-



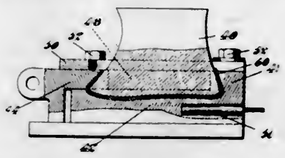
ing the rear end of the base while the front end is supported upon the rail by said frame.

1,381,920. ATTACHMENT FOR TYPEWRITERS. HAROLD L. HEDRICK and HENRY C. CHANTLER, Columbus, Ohio. Filed Nov. 5, 1919. Serial No. 335,827. 5 Claims. (Cl. 197—65.)



1. An attachment for typewriters comprising a friction drive wheel, a cord attached to the line spacer at one end of the typewriter carriage for returning such carriage when retracted, and means for moving said cord into contact with said friction wheel.

1,381,921. METHOD OF MAKING SHOES. JOHN J. HEYS, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 18, 1917. Serial No. 143,087. 35 Claims. (Cl. 12—142.)

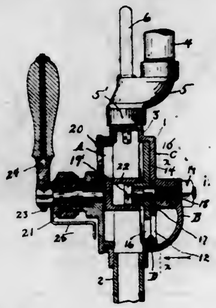


18. The method of making shoes which comprises molding a flat blank into a shoe part comprising sole, side and end portions of the shoe, forming a groove adjacent to the peripheral margin of the shoe part, trimming away the margin at a predetermined distance from the groove, and then sewing a tip piece to the margin of the forepart on a machine in which the work is guided by the groove and the stitches are located in the groove.

1,381,922. THERMAL MIXTURE-FIXTURE. SVEN N. HOLM, Dorchester, Mass. Filed Apr. 13, 1918. Serial No. 228,336. 3 Claims. (Cl. 251—88.)

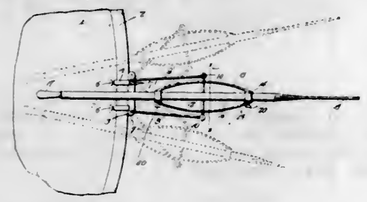
1. A mixing fixture, comprising a shell providing a superposed mixing chamber, said shell having a depending inlet chamber portion extending across the bottom of said

mixing chamber at one side of the central axis of the shell and said depending inlet portion providing a valve seat portion and providing hot and cold water inlet chambers communicating with a superposed mixing chamber, the bottom wall of said mixing chamber beyond said de-



pending inlet portion constituting a valve seat portion alined with said valve seat portion of the depending inlet portion of the shell, and a valve seated on said seat portions and controlling the passage of water from said hot and cold inlet chambers to said mixing chamber.

1,381,923. BOW-FACING OAR. JOHN LEVI KEMP, Charleston, S. C. Filed June 30, 1920. Serial No. 392,961. 11 Claims. (Cl. 9—25.)



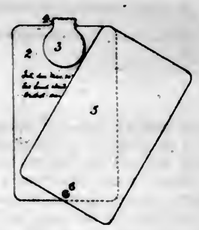
1. An oar lock, comprising a supporting member, means for securing said member to a boat, angular rods pivoted to the member, a rod connecting the outer ends of the angular rods and pivoted thereto, an oar support pivotally mounted on the said rod and means for adjustably securing an oar to said support.

1,381,924. FIREPOT. CHARLES R. LAMBERT, Detroit, Mich., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 4, 1918. Serial No. 232,446. 1 Claim. (Cl. 126—240.)



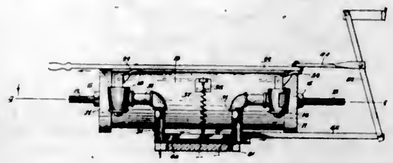
In a fire pot or the like, a top plate comprising a sheet metal stamping having a central apertured portion and a flanged portion adjacent said opening, and inwardly projecting supporting lugs, said supporting lugs being channel shaped in cross section.

1,381,925. MEMORANDUM-CARD. ALFRED V. H. LUND, Philadelphia, Pa., assignor of one-half to William J. Strandwitz, Haddonfield, N. J. Filed Feb. 27, 1920. Serial No. 361,766. 3 Claims. (Cl. 40—10.)



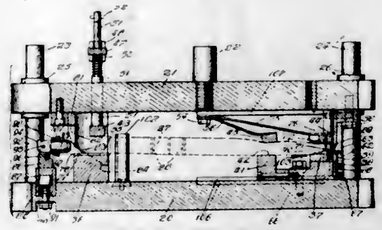
1. A vest pocket memorandum card device, comprising a card of general rectangular shape having a finish upon one side suitable to receive writing, and further provided at its upper end with a clamping tab facing the finished side aforesaid of the card, said tab constituting an integral extension of the card material at the top edge thereof and positioned by a bent over neck portion, whereby the tab has a spring clamping action adapted to clamp the card to the vest pocket.

1,381,926. MEASURING AND FILLING MACHINE. JAMES MCNERNEY, Buffalo, N. Y., assignor, by mesne assignments, to Swan & Finch Company, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1919. Serial No. 329,056. 9 Claims. (Cl. 221—103.)



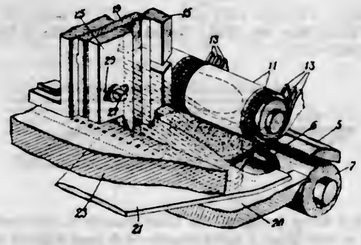
1. A measuring and filling machine comprising a three-way cock, an outlet pipe connected therewith, and a restraining outlet valve which closes synchronously with said three-way cock but which offers a greater resistance to the flow of the fluid therethrough.

1,381,927. BROOM-TRIMMING MACHINE AND METHOD. GEORGE W. MANNING, Chicago, Ill. Filed Mar. 8, 1919. Serial No. 281,331. 53 Claims. (Cl. 15—40.)



1. In a broom trimming machine, the combination with head and foot blocks comprising surfaces in a common plane adapted to support respectively the head and foot of a broom, of a platen between said blocks comprising a broom supporting surface without said common plane.

1,381,928. MACHINE FOR SKIVING SHOE-SHANKS. RALPH S. MEGATHLIN, Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 6, 1919. Serial No. 328,782. 16 Claims. (Cl. 12—60.)



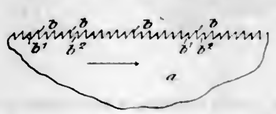
1. A machine of the class described, having in combination, a die member having a cavity therein, a cutter constructed and arranged to remove from a blank, a portion of which is forced into the cavity, that portion which extends above the cavity, and a presser coöperating with the cavity to hold the blank during the cutting operation, the die cavity having its longitudinal axis obliquely disposed with respect to the line of the edge of the cutter during the entire cutting operation.

1,381,929. METHOD OF MAKING HYDROMETERS. THOMAS MIDGLEY, Jr., Lancaster, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 31, 1916. Serial No. 88,164. 2 Claims. (Cl. 265—45.)



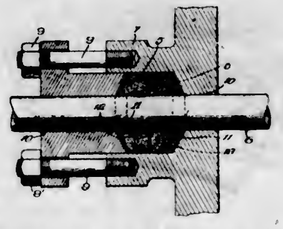
1. The method of making hydrometers of the type specified, which consists in determining the specific gravity of a plurality of sectional units, and then selecting and uniting certain of said units having respectively such specific gravities that each of the completed units thus formed thereby shall have, as a whole, a predetermined specific gravity.

1,381,930. SAW FOR CUTTING WOOD, METAL, OR OTHER SUBSTANCES. JOHN HENRY MORGAN, Harrogate, England. Filed Nov. 24, 1919. Serial No. 340,365. 4 Claims. (Cl. 143—133.)



1. A saw for cutting wood, metal or other substances, having a blade comprising teeth lying wholly in the plane of the blade and teeth inclined to the plane of the blade, each tooth lying wholly in the plane of the blade being intermediate of two teeth inclined to the plane of the blade in opposite direction to each other.

1,381,931. YIELDABLE PACKING. JAMES OSTRANDER, Indianapolis, Ind., assignor to Grapho-Metal Packing Company, Indianapolis, Ind., a Corporation. Filed Apr. 5, 1919. Serial No. 287,919. 8 Claims. (Cl. 286—1.)



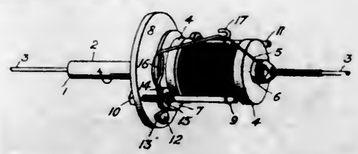
1. The combination with a cylindrical element, of a yieldable packing therefor; a housing for said packing having a restricted opening through which said element extends; and annular means fitting between the packing and the shaft for preventing crowding thereof into said opening.

1,381,932. AUTOMATIC SLACK-ADJUSTER. JOHN E. REDFORD, Kinloch, Mo., assignor to American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed June 12, 1919. Serial No. 303,739. 5 Claims. (Cl. 188—198.)



1. In an automatic slack adjuster, the combination with a pair of brake levers and a bottom rod comprising longitudinally adjustable members connected to the ends of said levers, of a spring acting on one of said members, a rod operated by excess movement of the brake levers in applying the brakes for compressing said spring, and a clutch mechanism for preventing relative longitudinal movement of said members in one direction.

1,381,933. WINDING-MACHINE. WILLIAM E. RIECKEN, Glendale, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1918. Serial No. 265,598. 6 Claims. (Cl. 28—6.)

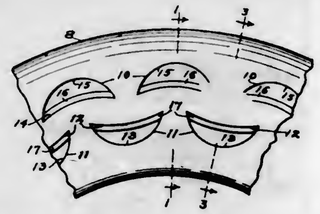


1. In a serving head, a spool for the serving material, a frictional brake with a flexible bearing portion for controlling the spool, and means controlled by the serving material for gradually varying the extent of contact of the brake.

1,381,934. CORE FOR RESILIENT WHEEL-TIRES. FREDERICK V. ROESEL, Wellington, Ohio, assignor of one-half to Eben Miller, Perry, Iowa. Filed Nov. 6, 1919. Serial No. 336,062. 1 Claim. (Cl. 152—5.)

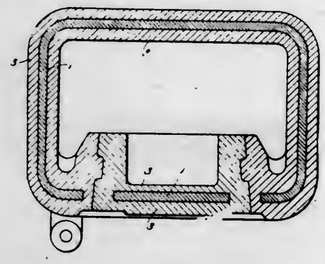
An elastic and compressible non-inflatable tire-core which is provided in its outer half with holes spaced circumferentially of the inner half and extending from side

to side of the core and also has holes formed in the last-mentioned half of the core, the last-mentioned or inner holes and the first-mentioned or outer holes being in staggered relation, each hole being substantially crescent-



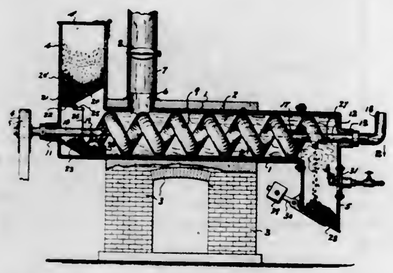
shaped in end view, each outer hole having its main wall in the form of a segmental arch and being arranged with said wall facing inwardly, and the inner holes being arranged reversely in relation to the outer holes.

1,381,935. SAFE. ALEXANDER N. SCOTT, Canton, Ohio, assignor to The Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 4, 1918. Serial No. 265,279. 4 Claims. (Cl. 109—1.)



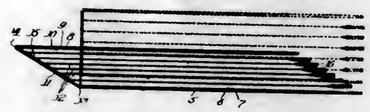
1. A safe or vault having continuous walls, said safe consisting of a continuous integral center layer or core of flame-proof material, and cast upon and integrally united thereto on each side a layer of drill-proof material.

1,381,936. RETORT. SCHUYLER SCHIEFFELIN, Tuxedo Park, N. Y., assignor to Harry L. Brown, Newark, N. J. Filed June 19, 1920. Serial No. 390,130. 8 Claims. (Cl. 196—20.)



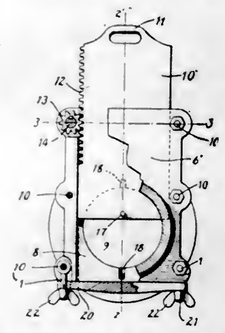
8. In an apparatus of the kind described, a rotary spirally convoluted tubular still, said still having an open forward end adapted to dip up material to be treated and an open rearward end for discharging the material passing therethrough, means for tapping the still interior intermediate its ends for conveying out of the same the vapors liberated from the material passing therethrough, and a heating chamber within which said still is mounted wherein a pressure may be maintained sufficient to resist the escape of vapors from the open ends of said still.

1,381,937. FILING DEVICE. PHILIP N. SEA, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,942. 2 Claims. (Cl. 281—15.)



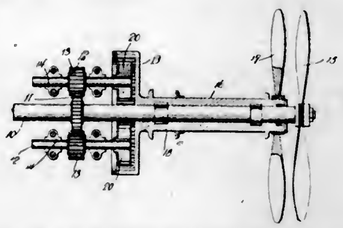
1. In a filing device of the class described, the combination of a base part, a non-foldable back part hinged to the rear edge of said base part, and leaves hinged to said back part at spaced intervals, said back part being free to assume inclined position whereby said leaves will at all times be horizontal.

1,381,938. VALVE. DEE L. SHEAFOR, Chicago, Ill., assignor, by mesne assignments, of one-half to Homer D. Martindale, Middletown, Ohio. Filed Jan. 29, 1920. Serial No. 355,007. 7 Claims. (Cl. 251—54.)



4. A valve comprising a body, a gate slidable therein and means on the inner end of said gate for preventing said gate from being entirely withdrawn from said body.

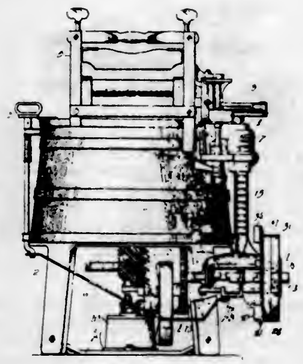
1,381,939. PROPELLING MECHANISM. ROBERT E. SMALL, Schenectady, N. Y. Filed Dec. 15, 1919. Serial No. 345,063. 1 Claim. (Cl. 115—37.)



A propelling means including a main shaft, a propeller member fixed to said shaft and adapted to rotate therewith, a driving gear on said main shaft, a hollow shaft receiving said main shaft, a propeller fixed to said hollow shaft and adapted to rotate therewith, means to prevent independent longitudinal movement of said shafts with respect to each other, countershafts, said countershafts being positioned in parallel relation to said driving shaft,

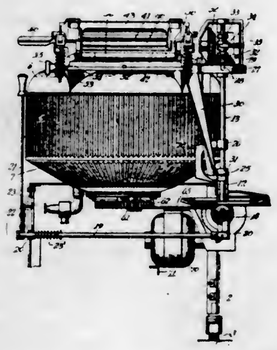
pinions on said countershafts meshing with said driving gear, an inverted crown gear carried by said hollow shaft, other pinions on said countershafts meshing with said crown gear, and said main shaft being adapted to be driven substantially as described.

1,381,940. WASHING-MACHINE. HOWARD F. SNYDER, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a Corporation of Iowa. Filed July 19, 1915. Serial No. 40,561. 3 Claims. (Cl. 74—7.)



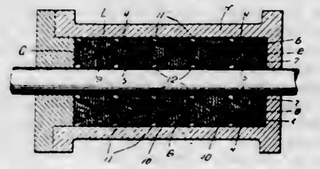
1. In a washing machine, having a power plant of unit construction, including an internal combustion engine, a driven mechanism, suitable reduction gearing interposed between the driven mechanism and the engine including a high reduction element adjacent the engine, a starter, and a clutch capable of connecting the starter with the engine through the high reduction element while leaving the driven mechanism stationary, or of connecting the engine with the driven mechanism through the entire train of gearing while leaving the starter free.

1,381,941. WASHING-MACHINE. HOWARD F. SNYDER, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a Corporation of Iowa. Filed Oct. 6, 1915. Serial No. 54,351. 5 Claims. (Cl. 74—59.)



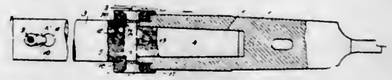
4. In apparatus of the class described, a stand, a support thereon, a vertical oscillatory shaft in said support, a horizontal driving shaft, a vertical driven shaft, driving connection between said horizontal shaft and said vertical driven shaft, said connection also including means to operate said oscillatory shaft.

1,381,942. PACKING. GEORGE W. STEWART, Weehawken, N. J. Filed Feb. 24, 1920. Serial No. 360,604. 11 Claims. (Cl. 288—1.)



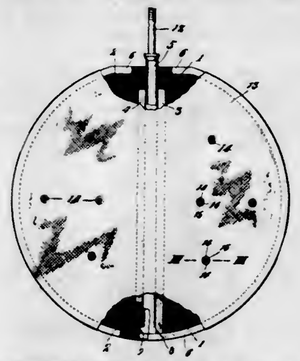
11. A packing comprising a body rectangular in cross section and having a wedge shaped opening therein providing spaced leg portions, a wedge element engaging within said wedge shaped opening, and said leg portions comprising alternate layers of fabric and rubber.

1,381,943. BORING-BAR. AXEL R. SWANSON, Chicago, Ill. Filed Aug. 26, 1918. Serial No. 251,531. 5 Claims. (Cl. 279—103.)



1. The combination of a shouldered boring bar having a tapered shank and having an aperture extending transversely therethrough, a socket member having a tapered aperture adapted to receive the shank, a key adapted to be inserted in said transversely extending aperture in said boring bar, an operating ring threaded on the socket member and having a flange portion overlapping the end of the socket member, the flange portion of said operating ring being adapted to engage the key to force the shank of the boring member into the tapered aperture of the socket member, and adapted to engage the shoulder of the boring bar to draw the shank out of the aperture.

1,381,944. FILTER. ERNEST J. SWEETLAND, Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation, a Corporation of Delaware. Filed Feb. 2, 1917. Serial No. 146,055. 17 Claims. (Cl. 210—195.)

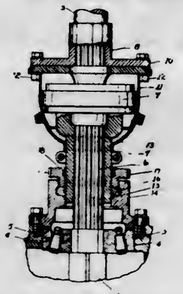


11. A filter leaf provided with means for supporting it in vertical position and comprising a drainage area, a covering of filter fabric thereover and a tube flattened in the plane of the leaf and rigidly incorporated therein to support the leaf, said tube extending to the lowest section of the drainage area and communicating therewith only at that point, and having an extension at the top of the leaf to furnish a combined outlet and support for the leaf.

16. A filter leaf comprising a foraminous plate, a filtering fabric for inclosing said plate and forming therewith an interior drainage chamber for filtered liquid drawn

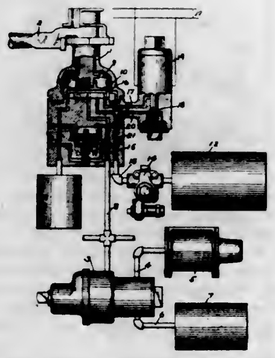
through the faces of the leaf, a discharge tube individual to said leaf and communicating with the interior drainage chamber thereof, said discharge tube being adapted to permit a cleaning fluid to be forced from the interior of the leaf outwardly through the filter fabric to dislodge the filter cake collected on the outer surfaces of the said fabric, in combination with means for preventing bulging of the said fabric and the compression of the said filter cake between the fabrics of adjacent leaves during the said reverse operation, said means comprising hollow shank rivets distributed over the face of said leaf and extending therethrough, said rivets being provided with metallic washers for forming enlarged bearing surfaces and with compressible washers for preventing leakage past the shanks of the rivets.

1,381,945. DRIVING-GEARING. GEORGE JOSEPH THOMAS, Lansing, Mich. Filed Oct. 31, 1919. Serial No. 334,752. 1 Claim. (Cl. 64—89.)



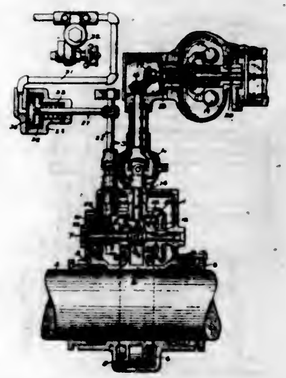
In a structure of the class described, the combination of a gear box having a bearing in a wall thereof, a shaft in said gear box projecting from said bearing, a coacting shaft, a universal joint connection for said shafts comprising a tubular shaft member having sliding and driving engagement with said shaft projecting from said gear box, a housing member mounted on said casing to inclose said bearing and projecting outwardly to embrace said joint shaft member, said housing member having an internal annular gasket seat, a gasket arranged within said housing member against said seat to embrace said joint shaft member, and a packing gland threaded into said housing member to engage said gasket.

1,381,946. BRAKE-VALVE DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 11, 1919. Serial No. 310,125. 3 Claims. (Cl. 303—84.)



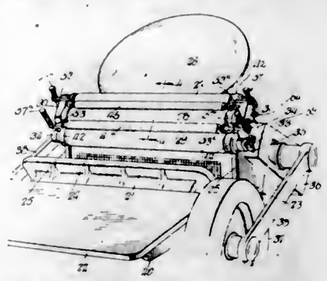
1. The combination with a brake pipe, a source of fluid pressure, and a brake valve having a position for supplying fluid from the source of supply to the brake pipe, of an electric brake circuit and means operated when there is no current in the electric brake circuit for cutting off communication through which fluid is supplied from the source of pressure to the brake pipe.

1,381,947. AUTOMATIC SPEED-CONTROL DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 12, 1920. Serial No. 380,899. 5 Claims. (Cl. 303—21.)



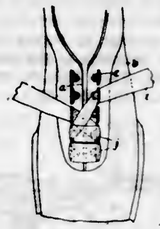
5. In a train speed control apparatus, the combination with a train speed controlled governor device for controlling the speed of the train, of a locomotive axle, trains of gears driven by said axle for operating said governor device at different speeds relative to the speed of the train, means for operatively connecting the different trains of gears to the governor device, a feed valve device for supplying fluid at different degrees of pressure, and mechanism operated according to the pressure of fluid supplied by the feed valve device for operating said means.

1,381,948. INK-DISTRIBUTING ATTACHMENT FOR PLATEN PRINTING-PRESSES. ROBERT O. VANDERCOOK, Evanston, Ill. Filed Feb. 13, 1919. Serial No. 276,740. 12 Claims. (Cl. 101—338.)



1. An ink distributing attachment for platen presses having form rollers and saddles therefor, said attachment comprising a shaft, a distributing roller rotatively mounted on said shaft and adapted to engage with one of the form rollers and to be rotated thereby, said distributing roller also being capable of an endwise movement on said shaft, means for removably attaching said shaft to the form roller saddles, and co-acting means on said shaft and roller for limiting the endwise movement of said distributing roller on said shaft without increasing the frictional resistance against a free rotative movement of said roller on said shaft after it has reached the limit of its endwise travel thereon.

1,381,949. LACING-EYELET. MACARTHUR VAN DEUSEN, Midland Park, N. J.; Annie P. Van Deusen administratrix of said MacArthur Van Deusen, deceased. Filed Aug. 21, 1919. Serial No. 318,846. 7 Claims. (Cl. 24—141.)

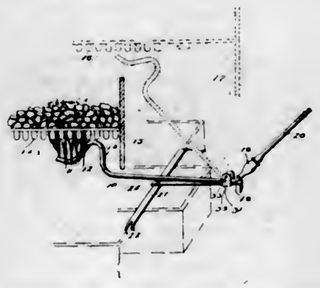


4. In combination, with the placket portion of a shoe, a lacing eyelet including a gromet secured to said portion at one side of the placket opening and a head on and upstanding from the gromet having a lace-receiving opening elongated and extending substantially parallel with the adjoining edge of the placket, said head being canted away from said edge of the placket.

1,381,950. TIE ATTACHMENT FOR SHOES. MACARTHUR VAN DEUSEN, Midland Park, N. J.; Annie P. Van Deusen administratrix of said MacArthur Van Deusen, deceased. Filed Aug. 21, 1919. Serial No. 318,847. 3 Claims. (Cl. 36—1.)

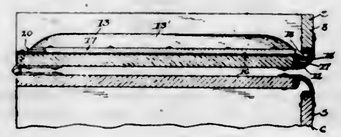
3. As an article of manufacture, a tie attachment for shoes including, in combination, a flexible lace arranged in a succession of loops, and an elongated stiff back for the lace having its opposite edge portions bent up in the same general direction and having means in said edge portions to receive and hold the respective loops.

1,381,951. FUEL-IGNITER. CHARLES JOSEPH VLASAK, St. Louis, Mo. Filed Jan. 18, 1921. Serial No. 438,225. 2 Claims. (Cl. 158—10.)



1. A fuel igniter including a burner pipe having one free curved end provided with burner forming means and having a handle at its opposite end, a supporting cross piece having support engaging means at its opposite ends, and an adjusting bar pivoted at one end to the cross piece intermediate the ends of the latter and having a pivotal mounting adjacent to its opposite end for the burner pipe and on which the latter is vertically swingable.

1,381,952. REMOVABLE TRUNK-PAD. GEORGE HENRY WHEARY, Racine, Wis. Filed June 10, 1919. Serial No. 303,099. 3 Claims. (Cl. 190—13.)

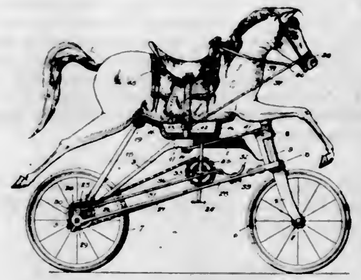


3. A removable trunk pad, comprising a non-flexible member having a pad portion formed on one of its side faces with a covering of soft non-abrading material, and reinforcing members mounted on the opposite side edge portions of the non-flexible member and having front and side edge projecting offset portions for easily removable connection with a trunk cover.

1,381,953. VALVE-GRINDING COMPOUND. JOHN V. WICKS, Seattle, Wash., assignor to Marvel Manufacturing Co., Seattle, Wash., a Firm composed of W. D. Tripple, George Tripple, and J. V. Wicks. Filed June 3, 1920. Serial No. 386,327. 3 Claims. (Cl. 51—280.)

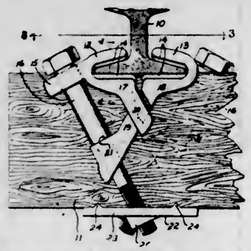
2. A valve grinding compound comprising petroleum hard oil, a pulverized abrasive, and lard oil, intermixed.

1,381,954. CHILD'S VEHICLE. MARTIN B. ZIMMERMAN, Unionville, Conn. Filed Aug. 11, 1920. Serial No. 402,744. 3 Claims. (Cl. 208—42.)



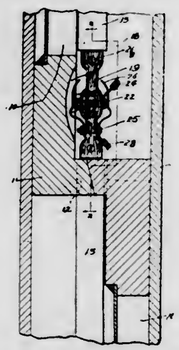
1. A child's vehicle comprising a frame, front and rear wheels supporting said frame, a rotatable stud mounted in said frame, said stud having arms on its upper and lower ends, a riding member mounted for rocking movement on said stud, a steering column for said front wheel having a cross bar connected to said lower arms, a steering cord passing loosely through the head of said riding member, and a rein member connected to said steering cord for actuating the same.

1,381,955. RAIL-CLAMP. JOHN C. ZWART and GERRIT C. ZWART, Glenbrook, Conn. Filed Mar. 14, 1921. Serial No. 452,100. 6 Claims. (Cl. 238—314.)



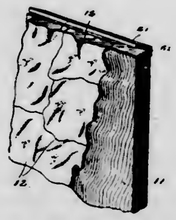
4. A rail clamp comprising flange clamps having interlocking shanks, and means engaging one flange clamp and the shank of the other flange clamp for simultaneously forcing said flange clamps inward and downward.

1,381,956. SASH-OPERATED CIRCUIT-CLOSER. JOSEPH AMODEO, Brooklyn, N. Y. Filed July 28, 1919 Serial No. 313,685. 1 Claim. (Cl. 200—54.)



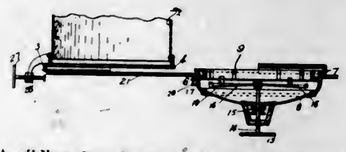
A circuit closer for a window alarm comprising an insulated block having a central enlarged portion and enlarged end portions resulting in intermediate narrow neck portions, a metal terminal contact member disposed through the central enlarged portion of the block, a metal terminal member disposed through one of the neck portions, and a pair of bowed leaf spring members secured to the opposite ends of the last-named terminal member with their intermediate portions normally extending across the ends of the first terminal member and out of contact therewith, and with their free ends directed inwardly toward the other neck portion.

1,381,957. MAP. CHARLES EDWARD ANDERSON, Philadelphia, Pa. Filed Dec. 29, 1920. Serial No. 433,877. 3 Claims. (Cl. 35—6.)



3. A map of the character described, comprising a baseboard, a plurality of sections corresponding to States, counties or the like associated with said base board, cooperating means carried by concealed portions of the sections and by the base board for securing the sections to the base board against all except upward movement and an end piece pivoted to the base board pivoted to the section to prevent upward displacement of said sections.

1,381,958. DOOR. DANIEL B. BANKS, Baltimore, Md.; Garey T. W. Banks executrix of the will of said Daniel B. Banks, deceased. Filed July 6, 1917. Serial No. 178,996. 9 Claims. (Cl. 220—55.)



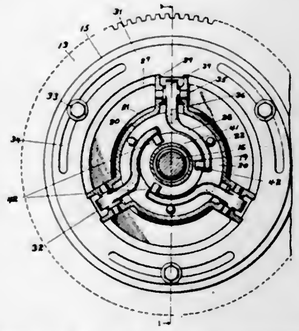
1. A sliding door having a section posteriorly concave terminating in a plane face parallel to the plane in which said door slides, said door having on the advancing portion thereof a projecting rim and on the following portion thereof one or more posteriorly projecting lugs in combination with a container, having about the opening thereof a continuous plane face opposing, when said door is closed, the plane face on said door, and having one or more projecting lugs engaging, when said door is closed, the rim of said door, and a projecting rim engaging, when said door is closed, the lugs of said door, and in further combination with a movable gland lying within the concavity of said door, and engaging, when advanced, the inner edge of the rim or opening of said container.

1,381,959. STORAGE BATTERY. ARTHUR J. BARACHEE, Chicago, Ill. Filed Mar. 24, 1919. Serial No. 284,521. 2 Claims. (Cl. 204—29.)



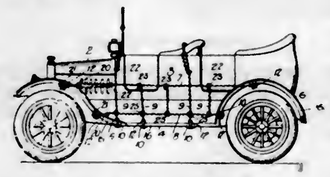
1. In a storage battery, means for supporting the plates in spaced relation, said means comprising members having spaced parallel grooves in which the ends of the plates seat, said grooved portions having perforations.

1,381,960. CLUTCH. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 22, 1918. Serial No. 246,208. 10 Claims. (Cl. 192—68.)



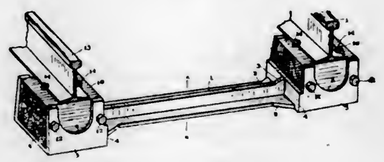
1. A device of the class described, comprising the combination of a driving fly wheel having a chamber formed therein; a thrust ring within said chamber movable axially of the fly wheel; laterally extending projections upon said thrust ring; a driven shaft; a clutch ring fixed to said driven shaft and disposed in said chamber between said fly wheel and said thrust ring; a cover plate secured upon said fly wheel and having forwardly extending portions engaging and interlocking with said projections; levers pivotally supported on said cover plate independently of said thrust ring and inclosed by the cover plate; and means for actuating the levers to move said thrust ring into engagement with said clutch ring.

1,381,961. LUGGAGE-RACK. JOHN W. BEMENT, Denver, Colo. Filed Oct. 5, 1918. Serial No. 257,022. 5 Claims. (Cl. 224—29.)



1. A luggage-rack for automobiles comprising a net of chains, and devices to secure the ends thereof, consisting of folding lugs adapted to be fastened at the edges of the running boards or mud-guards of an automobile and having slots in their movable parts, and anchors on the chains coöperating with the slotted parts of the lugs.

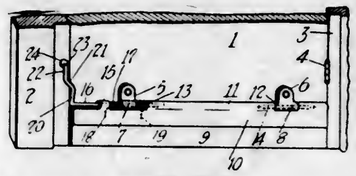
1,381,962. RAILWAY-TIE. ANTHIME BERNIER, Montreal, Quebec, Canada. Filed Nov. 19, 1920. Serial No. 425,225. 1 Claim. (Cl. 238—69.)



A railway tie, a T-bar terminating in cross walls slightly higher and slightly broader than the T-sections and integral with bottom and converging side walls all of metal, said side walls having curved slots from the upper side reducing the central depth of said side walls to approximately the height of said cross walls, wooden blocks inserted from the outer ends of said side walls therebetween and abutting the cross walls and flush with the top of the wing or end portions of the side walls and bolts inserted through said side walls and through said blocks at each side of the central slots in the side walls and securing the said wooden blocks rigidly between said side walls, said bottom having longitudinal drain openings therethrough.

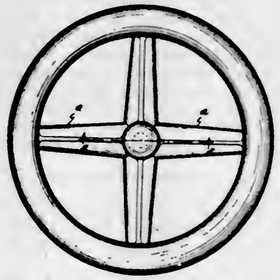
1,381,963. WEATHER-STRIP FOR DOORS. HERBERT EDWARD BRICE, Toronto, Ontario, Canada. Filed Dec. 5, 1919. Serial No. 342,795. 1 Claim. (Cl. 20—65.)

The combination with a door and a door jamb, of a pair of sleeve brackets carried upon one side of the door above the lower edge thereof, a weather strip having a sleeve-like portion cut away at different points along the length thereof to accommodate said brackets, one of the cut outs being of greater width than the bracket accommodated therein to provide space between the ends of the bracket and the ends of the cut out, a pivot rod passing through said last mentioned bracket and engaged in the sleeve like portion of the weather strip, one end of said rod extending beyond the end of the weather strip and formed into a crank arm having an integral offset disposed for engagement with the door jamb, a spring element having the intermediate portion thereof disposed behind said bracket and the ends thereof coiled about the pivot rod in the



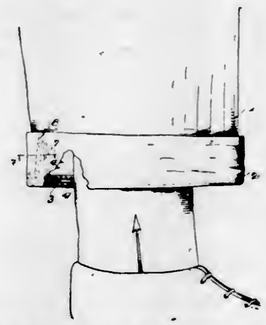
spaces between the ends of the bracket and the cut out and then extended into engagement with the weather strip, and a pivot passing through the remaining bracket and engaged in the sleeve like portion of the weather strip.

1,381,964. STEERING-WHEEL. HARRY W. BUNDY, Detroit, Mich. Filed June 3, 1920. Serial No. 386,172. 3 Claims. (Cl. 74—33.)



1. A steering wheel, comprising a rim, a spindle provided with a threaded end, a plurality of strips of spider arms extending from side to side of the rim and overlapping at the center and provided with registering non-circular central openings and bosses, a hub piece provided with a non-circular upper portion for fitting complementarily into the openings through the said spider arm strips and provided with a shoulder at its base against which the overlapping spider arm strips can abut, and a nut adapted to screw on to the threaded end of the spindle and hold the overlapped spider arms from moving off from the hub piece.

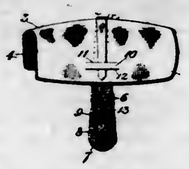
1,381,965. SHAPE-RETAINER FOR THE BOTTOMS OF TROUSERS-LEGS. FRANK CAMERON, Jr., Harrison, Ohio, assignor of one-third to Albert C. Kneffle, Harrison, Ohio. Filed July 12, 1920. Serial No. 395,572. 2 Claims. (Cl. 2—124.)



2. A shape retainer for the bottoms of trouser legs comprising a strip-like body provided with a fold between its

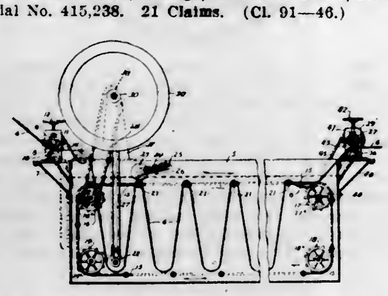
ends to form spaced side portions, and an integral bracing portion upstanding from the upper edge of one of the side portions in the plane thereof and relatively close to the said fold.

1,381,966. TIRE-PATCH. DONALD M. CAMPBELL and HARRY E. LITTLE, Wichita, Kans. Filed May 10, 1920. Serial No. 380,242. 6 Claims. (Cl. 152—24.)



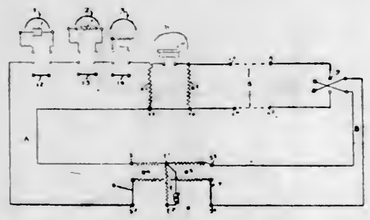
6. A device of the character described, comprising a patch formed of a plurality of plies or tire building material and adapted to be wrapped around the inner tube of a resilient tire; a securing strap for the patch, said patch having a raised strap-band formed by parallel slits extending through a part of the plies of the patch, said securing strap being passed under said raised band and yieldingly secured around the patch, and provided on its inner face with a coat of self vulcanizing material, whereby the patch is automatically adjusted to the inner tube according to the balance of force between the inflating power of the inner tube and the resistance offered by the outer casing to the inflation of said inner tube.

1,381,967. DIPPING-VAT FOR BUILDING-PAPER, &c. CECIL M. CLARKE, Chicago, Ill. Filed Oct. 7, 1920. Serial No. 415,238. 21 Claims. (Cl. 91—46.)



1. In combination, a vat, a conveyer in said vat having a plurality of individual members adapted to receive each the individual loop of a looped web, and means for feeding said web to and from the vat.

1,381,968. ELECTRICAL MEASURING APPARATUS. JOHN L. CLARKE, Montreal, Quebec, Canada. Filed Feb. 10, 1920. Serial No. 357,717. 5 Claims. (Cl. 175—183.)

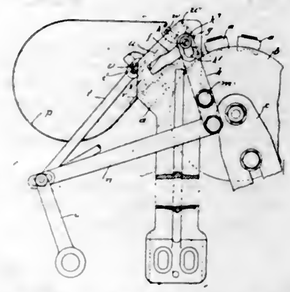


1. In an electrical measuring apparatus, an electrical circuit having two branches, each terminating in an impedance and having therebetween a break and means for determining the condition of one branch in respect to the other, one of said branches having a gap wherein the line or apparatus is inserted for test and electrical means in the other branch for making the current in the two branches equal in magnitude and in phase.

1,381,969. PRODUCTION OF CATALYSTS. CLARENCE BROOKS CLUFF, Westfield, N. J., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 5, 1920. Serial No. 421,864. 7 Claims. (Cl. 23—28.)

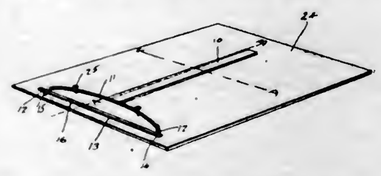
1. The method of producing a catalyst, which comprises subjecting a mixture of a reducible nickel compound and melted tallow to reduction with hydrogen at a temperature of about 240° to 245° C.

1,381,970. STRIPPING MECHANISM FOR TRAVELING FLATS OF CARDING-ENGINES. REUBEN T. COMER, Comer, Ga. Filed June 25, 1920. Serial No. 391,656. 8 Claims. (Cl. 19—15.)



7. The combination with a chain of traveling flats, of a reciprocating flat-stripper, a strippings-receiver, and a reciprocating strippings-clearer working oppositely with respect to the flat-stripper, taking the strippings away from the latter and moving the same to the receiver.

1,381,971. DRAWING IMPLEMENT. EDMUND CORBIN, Chicago, Ill. Filed June 4, 1920. Serial No. 386,637. 4 Claims. (Cl. 33—77.)



1. A drafting implement comprising a straight-edge blade, a resilient strip attached crosswise to one end thereof, and means for adjusting said strip to assume an arcuate curve, said curved strip being adapted for sliding contact with a means for guiding it in a circular path having for its center the center of the arc to which the strip is curved.

1,381,972. RIM AND TIRE CARRIER. WILBUR M. DACE, Rushville, Ill. Filed Aug. 18, 1919. Serial No. 318,250. 4 Claims. (Cl. 224—29.)

4. A rack for demountable rims or tire casings comprising a split band having overlapped ends and provided with casing or rim holding means, a longitudinally curved lever contacting at one of its ends with the inner peripheral face of the innermost end of the band, said lever being spaced from the inner peripheral face of the outer end of said band a distance equal to the thickness of said band, radial pivots connecting said lever with the ends of said band, one of said pivots extending across the



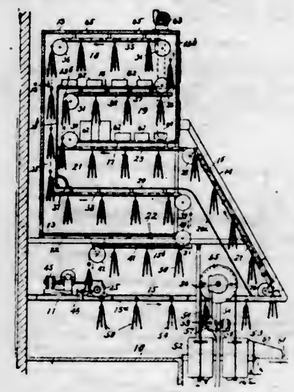
space between said lever and said outer end of the band, said inner end of the band being receivable in said space when said lever is thrown into band contracting position, and means for holding said lever in band expanding position.

1,381,973. BRUSH-CLEANER FOR CARPET-SWEEPERS. HELEN L. DAVIS, Arlington, N. J. Filed May 1, 1918. Serial No. 231,913. 1 Claim. (Cl. 15—25.)



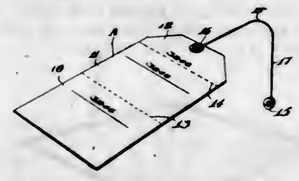
A brush cleaner for use in connection with a rotary brush carpet sweeper comprising a single piece of wire looped to provide a handle portion, and portions adjacent its ends twisted together to provide a shank, its free ends terminating in a pair of hook-shaped prongs, a second piece of wire intertwined with such twisted portions with its outer end terminating in a hook portion between the two first menioned hooks, said hooks having shanks extending upward and forward, and end portions extending in a rearward and downward direction so as to form collecting and retaining recesses for waste.

1,381,974. DRYING-OVEN. DAVID F. DOMIZI, Cleveland, Ohio. Filed June 27, 1917. Serial No. 177,188. 13 Claims. (Cl. 34—12.)



7. In an apparatus of the character described, a vertical structure including an oven having a plurality of superposed compartments, means for heating certain of the compartments, a loading and unloading platform beneath the oven, a series of horizontal tracks beneath the oven and through the several compartments thereof, an inclined track leading from the lowermost track upwardly to a compartment of the oven, a drip wall beneath said inclined track, and a conveyer for conveying the articles to be japanned over the platform, along the inclined track over the drip wall, then back and forth through certain compartments of the oven, then downwardly back and forth along certain tracks again to the loading and unloading platform.

1,381,975. IDENTIFYING MEANS. MCKENZIE DUMAIS, Hull, Quebec, Canada. Filed Oct. 11, 1920. Serial No. 416,226. 1 Claim. (Cl. 40—20.)



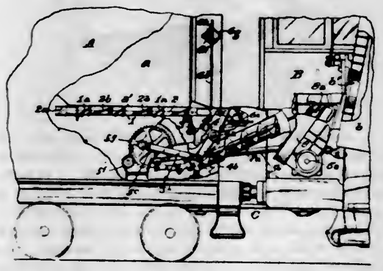
In an identifying means of the character described, a flexible member, a male member having an enlarged head of semi-ovoid shape, the under face of the said head being flat, a face plate beneath the head, a rectangular locking slot between the head and face plate, a female member having a socket to receive the head of the male member, and a spring locking wire formed with a parallel portion adapted to spring into and engage with the locking groove.

1,381,976. BRAKE-BAND CONSTRUCTION. WILLIAM B. DUNN, Detroit, Mich. Filed Dec. 15, 1919. Serial No. 344,872. 7 Claims. (Cl. 188—259.)



1. A flexible brake band having a circumferentially extending channel formed therein.

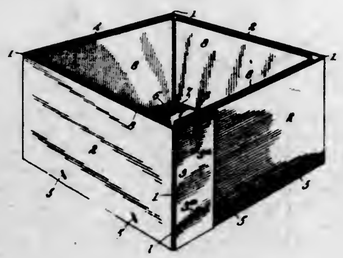
1,381,977. MECHANICAL STOKER. ALBERT G. ELVIN, Plandome, and ADAM B. FAHNESTOCK, Great Neck, N. Y., assignors to Elvin Mechanical Stoker Company, Dover, Del., a Corporation of Delaware. Filed Oct. 4, 1920. Serial No. 414,634. 7 Claims. (Cl. 110—101.)



1. In a mechanical stoker, the combination of a fuel receptacle, having a bottom delivery opening; a feeder

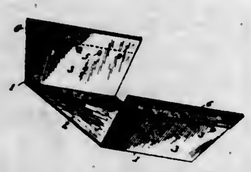
trough, located below said opening; a feeding appliance, adapted to be reciprocated in said feeder trough; a crusher casing, located below said feeder trough, and open at its top thereto; a movable crusher jaw, mounted in said casing; a subjacent conveyer, adapted to receive fuel from said casing, and deliver it, at a point adjacent to a steam boiler furnace; means for projecting the delivered fuel into the furnace; and a motor, actuating the feeding appliance and the crusher jaw.

1,381,978. FOLDING LOOSE-BOTTOM BOX. ORIN C. FENLASON, Portland, Oreg. Filed Sept. 30, 1919. Serial No. 327,497. 3 Claims. (Cl. 217—2.)



1. A foldable loose bottom box comprising a body member formed of a single strip of veneer with the grain running longitudinally thereof, scored transversely and bent along said score lines to form the side panels of the box, the two ends being stapled forming a rectangular box which may be folded flat, cleats stapled to the inner faces of the panels at the bottom edges thereof, said cleats terminating short of the score lines so as not to interfere with the folding of said body member, and said cleats reinforcing the body member and serving as supports, loose bottom members formed of single strips of veneer, with the grain running longitudinally thereof, and scored and bent to form bottom sections adapted to rest upon the said cleats, and upstanding end sections to bear against the inner faces of the side panels, and being substantially equal in length to the height of said panels, said bottom members being arranged at right angles to each other and placed crosswise of and loosely upon each other and supported solely by said cleats.

1,381,979. WOOD AND TIN BOUND BASKET. ORIN C. FENLASON, Portland, Oreg. Filed Sept. 30, 1919. Serial No. 327,498. 2 Claims. (Cl. 217—2.)



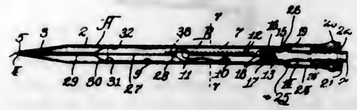
1. A wood and tin bound basket, composed of two members placed crosswise of each other forming a rectangular box, said members being formed of veneer with the grain running longitudinally, relatively narrow veneer strips arranged transversely along and cemented to the outside of said members at their upper edges and substantially flush with said edges, said strips having the grain running at right angles to the grain of said members, and means connecting said members together at the several corners.

1,381,980. SHOE-HEEL. DAVID H. FINBERG, St. Louis, Mo. Filed Apr. 22, 1920. Serial No. 375,736. 7 Claims. (Cl. 36—40.)



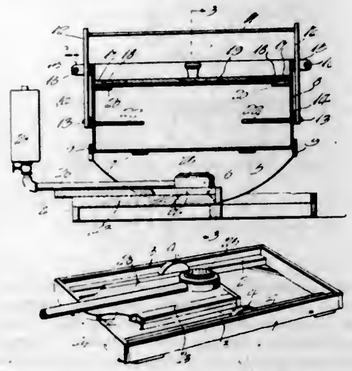
1. In combination with a heel provided with a socket leading from the tread of the heel, a lift for the heel, a plug coupled to the lift and secured in the socket, and a stiffener member embedded in the lift and plug, the outer portions of the stiffener terminating within the compass of the confines of the socket and betnt toward the roof of the socket sufficiently to communicate thereto the stresses imposed by the weight sustained by the heel.

1,381,981. PENCIL. HOWARD L. FISCHER, St. Paul, Minn. Filed Dec. 17, 1918. Serial No. 267,205. 9 Claims. (Cl. 120—17.)



1. In a pencil having a thin tubular barrel, an ejecting means collectively and removably held in said barrel, a removable cap for holding said ejecting means in said barrel and means for holding a marking lead in writing position so that its marking end can be projected out of the apex of said pencil barrel, said lead holding means being firmly held to said ejecting mechanism so as to be removed therewith when said ejecting mechanism is removed from said barrell, and said holding means being separable from said ejecting mechanism when the same is removed from said pencil barrel, whereby a new marking lead can be inserted freely into said lead holding means, and said lead holding means can be again attached to said ejecting mechanism and reinserted in operating positions in said pencil barrel.

1,381,982. WASHING-MACHINE. WILLIAM C. FORSEE, Kansas City, Mo. Filed Mar. 18, 1920. Serial No. 366,891. 1 Claim. (Cl. 126—350.)



A device of the class described comprising a tank, a base frame for supporting said tank, said frame including

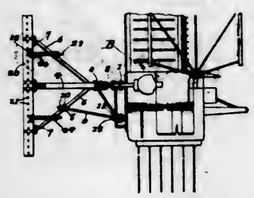
parallel side bars, end bars connecting said side bars, and an intermediate transverse bar parallel with said end bars, a horizontal elongated plate secured at its ends to said transverse bar and one of said end bars and flush with the upper surface of the latter, a pair of parallel undercut guide tracks secured on the upper surface of said plate along the edges thereof, a stop cleat secured to the inner end of said plate and extending between said guide tracks, a flat horizontal slide plate resting on said first named plate and slidably engaged with said guide tracks, the inner end of said slide plate abutting said cleat and the outer end of said slide plate resting on the aforesaid end bar, a burner carried by the inner end of said slide plate, a fuel supply pipe extending from said burner outwardly along the upper surface of said slide plate and projecting beyond the outer end of said plate, and a fuel supply tank supported by the outer end of said pipe and spaced outwardly from the first named tank.

1,381,983. SIGN. JOSEPH PETER FOX, St. Cloud, Minn. Filed May 12, 1920. Serial No. 380,742. 12 Claims. (Cl. 40—129.)



11. In a sign of the character described, a sign carrier adapted to be mounted on the extra wheel or tire carried on the automobile and including a hook adapted to engage the extra wheel or tire and spring means connecting the hook and the sign carrier.

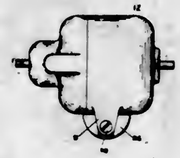
1,381,984. BINDER ATTACHMENT. ALBERT J. GAPP, Wales, N. D. Filed Nov. 13, 1920. Serial No. 423,841. 2 Claims. (Cl. 97—44.)



1. The herein described weed seed covering attachment for binders, the same comprising a rake consisting of a cross bar and a series of upright teeth therethrough, a beam and rearwardly diverging braces hinged at their rear ends to the front lower corner of said bar, means for attaching the front end of the beam to the binder, and yielding means connecting the top of the bar with said braces for holding the bar normally in position to maintain its teeth upright.

1,381,985. ELECTRIC MOTOR. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 26, 1917. Serial No. 203,975. 4 Claims. (Cl. 172—36.)

4. In an electric motor, a casing divided transversely into sections, a pair of lugs integral with one of said sections, said lugs located substantially at the central part of the motor casing, and a supporting member interposed between said lugs and detachably secured to the same, the



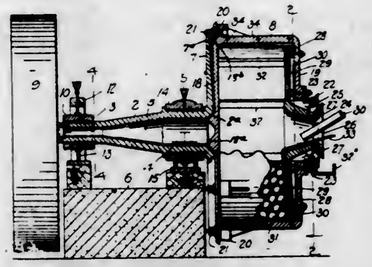
casing section having the lugs being provided with a conductor opening extending to the adjacent edge of the other casing section.

1,381,986. ELECTRIC MOTOR. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Original application filed Nov. 26, 1917, Serial No. 203,975. Divided and this application filed Mar. 8, 1919. Serial No. 281,329. 10 Claims. (Cl. 248—30.)



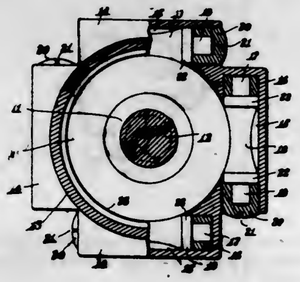
1. In an electric motor provided with a casing, supporting lugs formed upon said casing, a block mounted between said lugs, securing means extending through said lugs into said block, a base for said motor, and means independent of said securing means for adjustably mounting said block upon said base.

1,381,987. GRINDING-MILL. ROBERT W. GORDON and ARTHUR C. DAMAN, Denver, Colo., assignors to The Stearns Roger Manufacturing Company, a Corporation of Colorado. Filed Nov. 3, 1919. Serial No. 335,396. 3 Claims. (Cl. 83—9.)



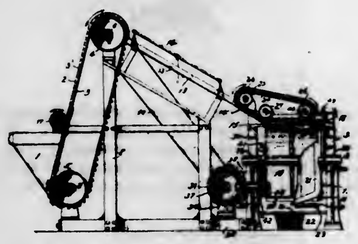
1. A mill of the class described comprising a rotary shaft, inner and outer bearings for the said shaft, the inner bearing having a ball and socket joint and the outer bearing having means for adjusting the shaft both vertically and horizontally, a carrying member rigid with the inner end of the shaft and a grinding cylinder adjustably connected to said carrying member.

1,381,988. ANTIFRICTION MECHANISM FOR LIFTING-JACKS. FRANK L. GORMLEY, Brookline, Mass. Filed Jan. 20, 1921. Serial No. 438,539. 8 Claims. (Cl. 254—103.)



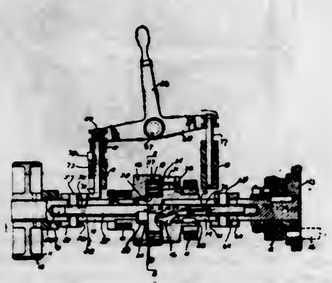
1. In a lifting jack, a fixed cylindrical standard; a member movable thereon; and anti-friction members on said movable member and oppositely disposed coacting with the wall of said standard.

1,381,989. MACHINE FOR POSITIONING AND CUTTING FISH. CHARLES W. GRAHAM, Allendale, N. J., assignor to American Can Company, a Corporation of New Jersey. Filed Nov. 12, 1917. Serial No. 201,514. 24 Claims. (Cl. 17—10.)



12. The combination of an endless series of channels movable sidewise for carrying the fish, gaging and decapitating means, fish positioning means, and means for propelling the fish head first into the ends of said channels and along the same to the gaging means.

1,381,990. CLUTCH. BENGT M. W. HANSON, Hartford, Conn. Filed Aug. 6, 1919. Serial No. 315,668. 8 Claims. (Cl. 192—35.)

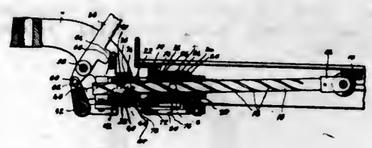


4. In a clutch, a carrier, an expansible member carried thereby, a radially movable slide, a slidable bar having a cam adapted to move the slide outwardly when the bar is shifted in one direction, said shiftable bar also having a second cam operatively connected to said slide and adapted to move the same inwardly when the bar is shifted in the opposite direction.

1,381,991. ENAMEL FOR PAPERS. RICHARD HEIM, Philadelphia, Pa. Filed Sept. 2, 1919. Serial No. 321,194. 2 Claims. (Cl. 184—50.)

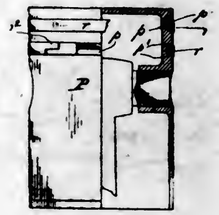
2. An enamel consisting of pigments, a size, and an oil reduced to a putty-like state.

1,381,992. JACK. DANIEL E. HENNESSY, Holyoke, Mass., assignor to Herbert W. Cowan, J. Lewis Wyckoff, and Edward N. White, trustees, doing business as Cowan Truck Company. Filed July 14, 1915. Serial No. 39,729. 20 Claims. (Cl. 254—2.)



1. A jack comprising, in combination, a jack-post having a thread thereon so inclined to its axis that a nut screwed upon said thread may be turned by relative movement of said post and said nut along said axis, a nut on said post, means for reciprocating said nut, and means acting automatically as said nut is moved in one direction to prevent its turning on said post whereby it carries said post with it.

1,381,993. PISTON-PACKING. ROBERT R. HILL and RALPH G. LAW, Manhasset, N. Y. Filed Nov. 22, 1919. Serial No. 339,861. 4 Claims. (Cl. 74—109.)

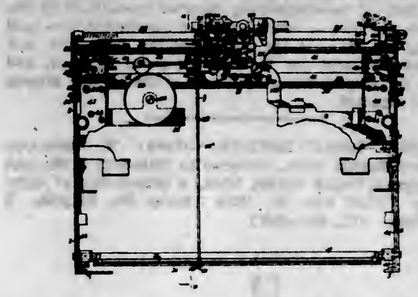


1. A piston formed with a packing groove with inwardly-convergent walls, and a packing ring with inwardly-convergent sides for contactual engagement with the walls of the groove, the convergent walls of the piston and ring being parallel throughout, the said ring being loosely received in said groove and free to shift in the direction of movement of the piston.

1,381,994. TYPEWRITING-MACHINE. JOSEPH B. HOLDEN, Utica, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 20, 1920. Serial No. 352,659. 28 Claims. (Cl. 197—108.)

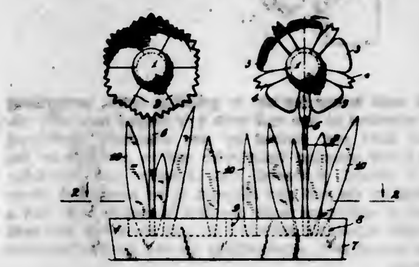
1. In a collapsible tire core, a key section having ears protruding from the opposite ends thereof, separable body sections coöperative with said key section, said body sections having certain of the ends thereof provided with sockets arranged to receive said ears, and a plurality of

nut carrying threaded and tapering bolt elements arranged to pass through openings provided in said ears



and the walls of said sockets, whereby upon the tightening of the nuts of said elements said section ends will be securely united.

1,381,995. TOY. RICHARD EDWARD HUMBERT, Montclair, N. J., assignor to Humbert Toymakers, Inc., Newark, N. J., a Corporation of New Jersey. Filed Mar. 17, 1919. Serial No. 283,119. 1 Claim. (Cl. 35—16.)



A toy comprising a slotted base, a stem removably carried by the slotted base, a head having a transverse slot with which the stem engages whereby the angle of the head may be adjusted, said head being also provided with a circumferential slot and petals removably carried by and frictionally held in said circumferential slot, substantially as set forth.

1,381,996. CUSHION-WHEEL. CHARLES J. JACKSON, Galva, Ill. Filed Mar. 23, 1917. Serial No. 157,007. 8 Claims. (Cl. 152—36.)



3. In a cushion wheel, a pair of rings, one of which comprises angular sections, a cushion interposed between said rings, and locking plates provided with lugs engaging openings in the sections for locking the sections together.

1,381,997. HANDSAW. WILLIAM LOUIS JACQUES, Central Falls, R. I. Filed July 2, 1920. Serial No. 393,563. 2 Claims. (Cl. 7—13.)

1. A handsaw having a blade with a sight opening, a handle on the blade, said handle having on one side a raised angular ledge which extends entirely across the handle and onto the saw blade, and on the other side a



raised right-angular ledge with a corner which extends to the center of the sight opening, for the purpose as described.

1,381,998. REPRODUCER FOR TALKING-MACHINES. JOHN W. KAUFMANN, Baltimore, Md. Filed June 9, 1920. Serial No. 387,640. 8 Claims. (Cl. 274—35.)



4. In a reproducer, a sound box, a reproducing lever, a needle holder, self supporting pivots for the said lever and said needle holder on the sound box, and a bow shaped spring in normal condition connected at opposite ends to said lever and said holder.

1,381,999. SAFETY-LOCK FOR DOORS AND THE LIKE. HERMAN L. KLESS, Houston, Tex. Filed May 15, 1920. Serial No. 381,642. 1 Claim. (Cl. 292—292.)

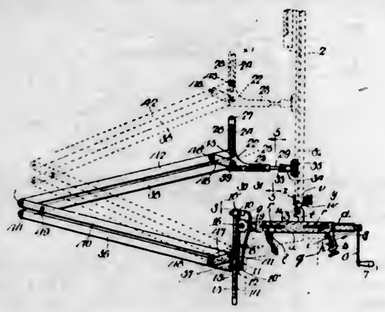


A safety lock including two jaws provided with alined slots, a bearing pin working through said slots, the corresponding ends of said jaws being outwardly turned forming a lip flange and a stop and eccentrics carried by the respective ends of said pin, bearings carried by said jaws between which the eccentrics work forming means for adjusting the jaws relative to each other.

1,382,000. WINDOW-CLEANING MECHANISM. LOUIS L. KORACH, Chicago, Ill. Filed Sept. 20, 1917. Serial No. 192,309. 7 Claims. (Cl. 15—59.)

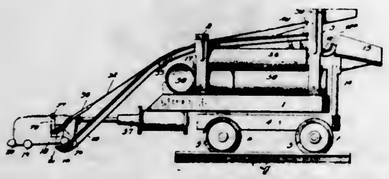
1. In a window cleaning mechanism of the class described, the combination of a set of pivotally connected levers comprising a lower pair of parallel levers pivotally connected with an upper pair of parallel levers, links connecting the lever members of each pair of said levers, a supporting member pivotally connected with one of the lower levers and adapted to support said levers in position to extend in a plane at right angles to the plane of a vertical window pane to be operated upon, lever-operating mechanism comprising a reciprocating member pivotally connected with the other of said lower levers at a point near its extremity, means for operating said reciprocating member, and a tool-holding member upon and movable

with the extremities of the upper pair of connected levers in a direction parallel to the path of movement of said



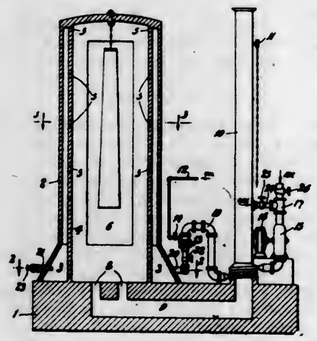
reciprocating lever-operating member, said links being oblique to the length of said levers.

1,382,001. SHOVELING-MACHINE. SPANOJE JOSEPH KAULY, Miami, Ariz. Filed Nov. 17, 1917. Serial No. 202,476. 3 Claims. (Cl. 214—102.)



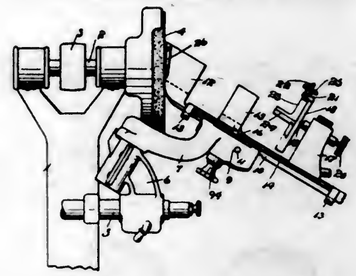
1. In a machine of the character specified, a trackway, a dipper moving on the trackway, said dipper being open at its forward end and having a gate closing the front of the top thereof, means for moving the dipper on the trackway, and a connection between the said means and the gate for holding the gate closed when the dipper is moved in loaded condition, the dipper having a gravity-controlled discharge gate at its rear end, means in connection with the trackway for inclining the dipper at the discharge end of the trackway, latches for holding the gate closed, and means controlled by the inclining of the dipper for releasing the latches.

1,382,002. FURNACE FOR HEATING METALS. EDWARD A. LESLIE and HENRY M. BRIGHAM, Brooklyn, N. Y. Filed Nov. 18, 1918. Serial No. 262,976. 2 Claims. (Cl. 158—7.)



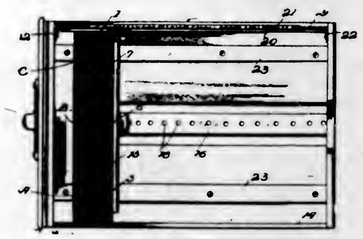
1. A furnace for heating metals comprising in combination a combustion chamber, a heating chamber, an annular distributing chamber surrounding the heating chamber into which the gaseous products of combustion are discharged from the combustion chamber, ports in the inner wall of the distributing chamber through which the gaseous products of combustion are distributed into said heating chamber, means for supplying fluid fuel and air and a diluent gas to the combustion chamber, and means for varying the proportions of the air and diluent gas so supplied.

1,382,003. DRILL-HOLDER. HENRY W. LIGHTNER, Grand Rapids, Mich., assignor to Wilmarth & Morman Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Feb. 24, 1920. Serial No. 361,035. 8 Claims. (Cl. 51—219.)



1. A drill holder for use in grinding drills, comprising a bar provided at one end with a V-shaped upwardly extending drill rest formed by two angularly positioned sides, a rod mounted lengthwise and to one side of the bar, a second V-shaped rest slidably and rotatably mounted on the rod and adapted to be positioned above the bar in alinement with the first V-shaped rest, and a tail block adjustably mounted on and above the bar back of the second rest, substantially as and for the purposes described.

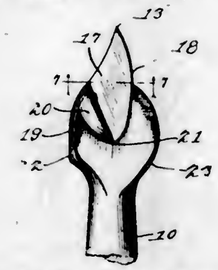
1,382,004. SELECTIVE CARD-INDEX SYSTEM. ISAAC W. LITCHFIELD, Washington, D. C. Filed Oct. 24, 1917. Serial No. 198,348. 20 Claims. (Cl. 129—16.1.)



16. In a selective card-index system, a series of cards, a container therefor permitting lateral displacement of said cards therein, means to displace laterally all cards of a classified group, and means to elevate the displaced cards with respect to the remaining cards.

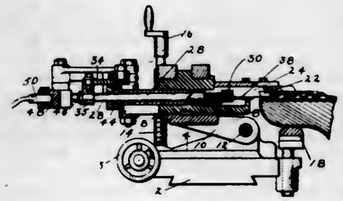
19. In a selective card-index system, a series of cards so constructed as to provide a passage extending through all of the series, all cards of a classified group projecting into said passage to such a position that they may be engaged by a displacing device inserted into said passage, and means insertible into said passage for positively displacing the cards projecting into the same.

1,382,005. NAIL. THADDEUS J. LORDS, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago Ill., a Corporation of New York. Filed Mar. 5, 1920. Serial No. 363,513. 8 Claims. (Cl. 85—30.)



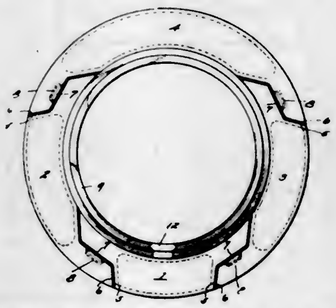
1. A fastening having a tapered shank terminating in a barb, the radial dimensions of said barb being materially greater than the small end of the shank but materially less than the large end of the shank.

1,382,006. LASTING MECHANISM. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 12, 1918. Serial No. 253,693. 20 Claims. (12—14.)



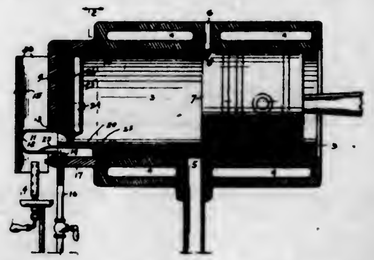
1. In mechanism of the class described, in combination, means for gathering an upper inwardly around the end of a shoe, and independently operable upper trimming means permanently associated with said gathering means, said upper trimming means comprising a cutter guided for trimming movement inwardly over the shoe bottom in a direction substantially parallel to the lengthwise dimension of the shoe and constructed to extend continuously across the shoe from one side of the gathered upper to the other side to trim off the entire surplus margin of the upper around the end of the shoe at a single operation.

1,382,007. COLLAPSIBLE CORE. THOMAS MIDGLEY, Sr., Worthington, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1919. Serial No. 283,533. 6 Claims. (Cl. 18—45.)



1. A collapsible core having a plurality of separate sections having their abutting surfaces shaped to provide portions extending substantially circumferentially, interfitting connections located in said circumferential portions and adapted to resist separation of the sections in a circumferential direction, and means whereby said connections are strained in a circumferential direction.

1,382,008. HYDROCARBON-ENGINE. DUDLEY R. MORRISON, Anderson, Ind. Filed Apr. 26, 1920. Serial No. 376,677. 11 Claims. (Cl. 123—32.)



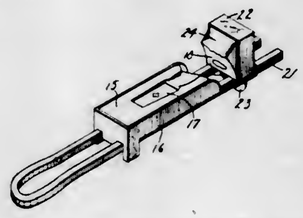
1. In a hydrocarbon explosive engine utilizing oil as a source of hydrocarbon supply, a cylinder, a piston reciprocating in the cylinder, a resilient partition within the cylinder defining a separate chamber said plate making a loose fit at its edges with the cylinder, means for supplying fuel-oil to the chamber defined by the plate, and means for heating the plate to vaporize the oil.

1,382,009. TOY. CHARLES NEMETHY, Yonkers, N. Y. Filed May 13, 1920. Serial No. 381,026. 2 Claims. (Cl. 244—12.)



2. A glider of the class described comprising a body portion having enlarged heads at each end thereof, a slot provided in the forward enlarged head, a plane situated within said slot, said rear head provided with a horizontal slot and a vertical slot, a plane situated in said horizontal slot and a rudder carried within said vertical slot.

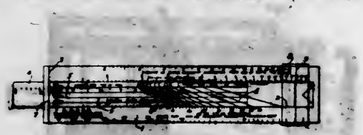
1,382,010. APPARATUS FOR MANUFACTURING PORCELAIN JACKET-CROWNS. CHOTOKU NISHI, San Francisco, Calif. Original application filed Mar. 22, 1920, Serial No. 367,842. Divided and this application filed Feb. 14, 1921. Serial No. 444,706. 6 Claims. (Cl. 32—6.)



5. A hand tool for the making of porcelain jacket crowns, comprising a handle provided with a wax-holding tray,

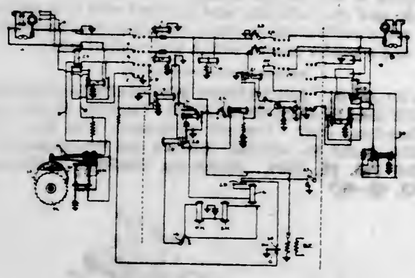
and a receptacle mounted on the handle and having an open side disposed toward the tray so that upon movement of the opposed ends into juxtaposition the occlusal surface of a model in the tray will be impressed in the wax in the receptacle.

1,382,011. SLIDE-RULE. HAYLETT O'NEILL, Larchmont, and STEPHEN H. PAYNE, Brooklyn, N. Y. Filed Aug. 24, 1917. Serial No. 188,059. 2 Claims. (Cl. 235—70.)



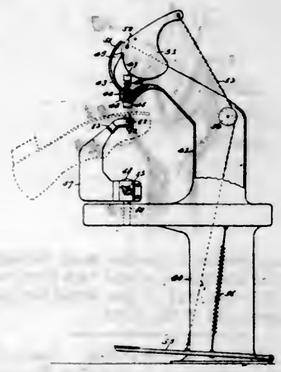
1. In a slide rule for determining the efficiency of steam plants, and other facts relating thereto, the combination with a casing having a cross index line, a slotted face and, along the margin of said slot, a scale representing different values of combustible per unit of fuel, and a slide mounted in said slot and having on the slide face a series of longitudinally extending parallel lines representing different flue temperatures, a series of curved lines intersecting these parallel lines and representing the summation of heat-losses in a standard boiler plant which is producing the percentages of CO_2 in said flue gases under varying conditions as designated on said lines, and a graduated scale, parallel to the flue temperature lines, representing the percentages of efficiency at which boilers are being operated, of a marker adapted to slide longitudinally on the casing, whereby upon placing the marker over the graduation on the casing scale representing the value of combustibles, in an assumed fuel, and moving the slide until the intersection point of the line representing a given flue temperature and of the curve representing a given CO_2 percentage, comes under the marker, the graduation on the slide representing the efficiency of a standard boiler operating under conditions so assumed will appear opposite the index line on the casing.

1,382,012. LINE-SWITCH SYSTEM. WINFRED T. POWELL, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed May 14, 1919. Serial No. 297,086. 14 Claims. (Cl. 179—18.)



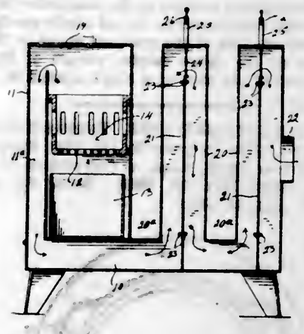
1. In a telephone system, telephone lines, connector switches having contacts in which said lines terminate, a line switch provided with fixed and movable contacts having no normal position, each of said telephone lines terminating in the movable contacts of one of said line switches, means for connecting with any line through one of the said connector switches, and means effective thereupon for moving said movable contacts of the associated line switch out of engagement with its fixed contacts.

1,382,013. SHOE-REPAIRING MACHINERY. WILLIAM L. ROACH, Corinth, Miss. Filed Juy 7, 1920. Serial No. 394,494. 1 Claim. (Cl. 1—4.)



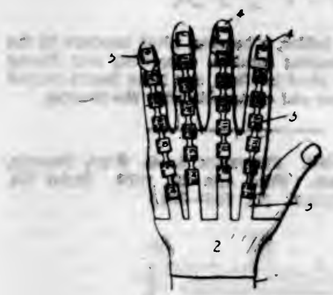
In a shoe repairing machine, a base having a standard terminating in a hollow head, a plunger rod slidable in the said head, a collar secured to the plunger rod within the head, means interposed between the collar and the end of the head for holding the plunger rod in normal position, a plunger head carried by the outer end of the plunger rod and having a circular seat in its face, means for pressing the plunger rod outwardly, a goose neck work support, means for rotatably mounting the support under the axis of the plunger, the said work support having an anvil in the axis of the trunnion of the support, staple guides mounted for reciprocation at the edges of the anvil, and means for holding the staple guides in normal positions.

1,382,014. HEATING-STOVE. ROWLEY ROBINSON, Camas, Wash. Filed July 14, 1919. Serial No. 310,612. 2 Claims. (Cl. 126—58.)



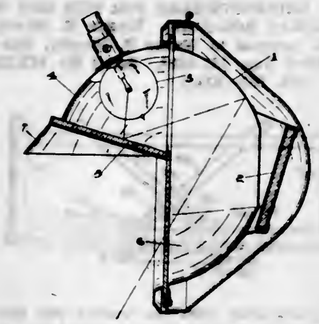
1. A heating stove or furnace comprising a body provided at one end with a fire pot and ash pit, with means for admitting air for combustion, the opposite end of the body being formed with an outlet flue, said body being formed with a plurality of upwardly extending, radiation drums opening into the body and spaced from each other whereby air may pass between the drums, and baffle partitions extending upward from the bottom of the body into said radiation drums and nearly to the upper ends thereof whereby to cause the products of combustion to pass successively through the several drums, said baffles being vertically shiftable independently of each other.

1,382,015. WEIGHER'S RAPID WEIGHT-STAMPER. JAMES W. RUDOLPH, Dayton, Ohio. Filed Apr. 30, 1921. Serial No. 465,738. 3 Claims. (Cl. 101—379.)



1. A device of the type described comprising a cuff adapted to be slipped over the wrist of a human hand, and stamping means attachable to the back portions of the fingers of said hand, projecting forwardly from said cuff for the purpose specified.

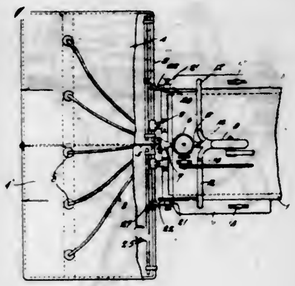
1,382,016. LIGHT-PROJECTING APPARATUS. JOHN C. RYAN, Toronto, Ontario, Canada. Filed May 8, 1920. Serial No. 379,912. 6 Claims. (Cl. 240—41.)



1. In light projection apparatus, the combination of a concave reflector having as the central part of its reflecting surface a plane mirror; a source of light supported outside the concave reflector above the optical axis thereof and facing the plane mirror; and means for reflecting the light from the source into the concave reflector, the plane mirror being set at a suitable inclination to reflect light received by it from the source.

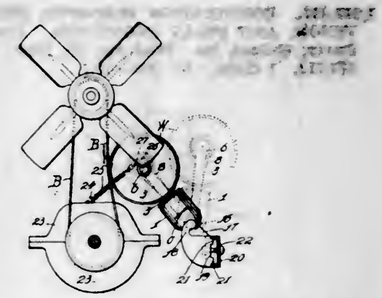
1,382,017. COTTON-PEST-DESTROYING MACHINE. JOSEPH M. SALADINER, Bryan, Tex. Filed May 1, 1920. Serial No. 378,272. 5 Claims. (Cl. 43—148.)

1. The combination with a movably supported structure, a wing thereon and means for scattering a dust upon plants beneath the wing, of means carried by said structure



for spraying plants in advance of the powder distributing means.

1,382,018. AIR-PUMP. JOHN H. SCHREIBER, St. Louis, Mo. Filed May 17, 1920. Serial No. 381,987. 1 Claim. (Cl. 230—27.)



In an air pump of the character described the combination which comprises a cylinder provided at one end with a groove, a supporting member for the cylinder, said supporting member having a plate secured thereto, said plate having terminal arms projecting therefrom, a pin spanning said arms, one of said arms being shaped to permit the groove in the cylinder to be longitudinally passed over the pin whereby the pin and groove comprise a hinge connection, a piston operating in said cylinder, and means for reciprocating the piston.

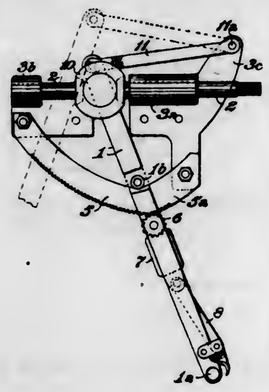
1,382,019. CLEANSING AND POLISHING PASTE. JOHN MARTIN SCHWANER, Brooklyn, N. Y. Filed June 14, 1919. Serial No. 304,303. 2 Claims. (Cl. 87—5.)

1. A polishing and cleansing paste comprising whiting, powdered pumice, kerosene oil, sal-soda, salt and essential oils.

1,382,020. VALVE-OPERATING LEVER. FRANK F. SCOVILLE, Schenectady, N. Y. Original application filed Nov. 1, 1919, Serial No. 335,132. Divided and this application filed Sept. 25, 1920. Serial No. 412,887. 3 Claims. (Cl. 74—39.)

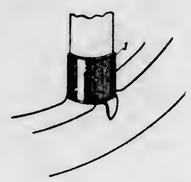
1. The combination of a fixed support; a valve stem, fitted to slide in guides therein; a block, fitted in the valve stem, and slotted in the axial line thereof; a valve operat-

ing lever, fitting and extending through the slot of said block, and longitudinally movable, relative to the valve



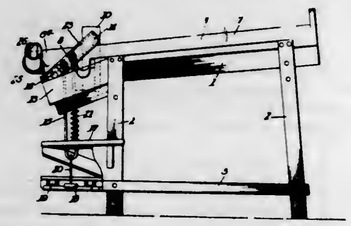
stem; a segment, over which the operating lever is fitted to traverse; and means for maintaining said lever in normal relation to the segment.

1,382,021. COMBINATION SLIP-OVER SPOKE END, TENON, AND FELLY PROTECTOR. JUSTIN ISAAC SHARP, Wallace, Mo. Filed Apr. 29, 1920. Serial No. 377,711. 1 Claim. (Cl. 301—70.)



In a device of the kind described, a split metal tenon member having a disk like head, a ferrule adapted to slip over the tenon to inclose the head and receive the end, and the spoke, to connect the tenon to the spoke, said ferrule having tangs at its closed end to embrace the sides of a felly when the device is in use.

1,382,022. CUTTING AND BUNCHING DEVICE. WILLIAM H. SIKMA, Oakglen, Ill. Filed Feb. 26, 1921. Serial No. 447,962. 13 Claims. (Cl. 146—7.)



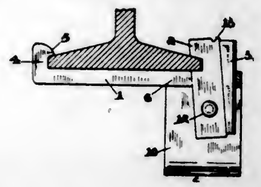
1. The device of the character described comprising a table supported upon legs, provided with a cradle below one of its edges and a knife mounted in a plane transverse to said edge.

1,382,023. COLLAR-HOLDER. CHARLES SILVERMAN, Providence, R. I. Filed Apr. 15, 1921. Serial No. 461,472. 2 Claims. (Cl. 24—81.)



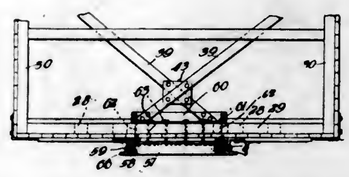
1. In a collar holder, a housing, pivot members in the housing, and clamping members comprising rear fingers supported on the pivot members, and front fingers carried by the rear fingers and engageable with the housing.

1,382,024. CLAMP. FREDERICK L. H. SIMS, Toronto, Ontario, Canada. Filed Apr. 20, 1920. Serial No. 375,319. 7 Claims. (Cl. 238—324.)



5. A clamp comprising a reach bar formed of an integral bar doubled on itself to form a key bearing at the bend and having hooks formed on its free ends extending parallel to the key bearing and adapted to engage one edge of a flange of a structural steel member; a cramp bar passing between parts of the reach bar and having a notch formed therein adapted to wedge over the adjacent edge of the aforesaid flange; and a wedge key adapted to be driven between the cramp bar and the key bearing.

1,382,025. REINFORCEMENT FOR THE END WALLS OF RAILWAY BOX-CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Aug. 22, 1919. Serial No. 319,126. 19 Claims. (Cl. 105—411.)



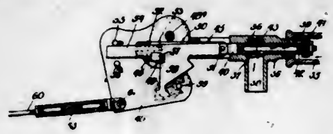
1. The combination with the wooden end wall of a railway car, of a metal reinforcing construction for said wall comprising a pair of upright members on the outside of the car wall, and a bracing structure within the car including a transverse element bearing against the inner side of the wall the ends of which stand at right angles to the main portion thereof and are alined with said upright members respectively, to which said members are secured each with a plurality of fastening devices.

1,382,026. STOVE-POLISH. AUGUST JOHN STENCELL, Pembroke, Ontario, Canada. Filed Oct. 10, 1919. Serial No. 329,850. 1 Claim. (Cl. 134—25.)

A stove polish of the character described, comprising a pasty mass having the following ingredients in the proportions stated:

Lubricating graphite	2 lbs.
Shoe polish	2 lbs.
Oil of sassafras	½ oz.

1,382,027. VALVE FOR FLUSHING-TANKS. JOHN S. SWEENY, Galveston, Tex. Original application filed Jan. 22, 1919, Serial No. 272,526. Divided and this application filed Nov. 21, 1919. Serial No. 339,540. 7 Claims. (Cl. 137—104.)



1. A valve for flush tanks comprising a casing formed with a valve guide and an outlet, a hollow valve operating in the valve guide and provided with lateral inlet openings and an outlet opening, a packing at the end of the valve adjacent the inlet openings, a pivotally mounted plate, a float carried thereby, means between the plate and the valve to positively open the latter when the float is lowered, a trip pivoted to the valve and provided with an abutment, fixed means against which the abutment is adapted to rest to hold the valve open, and means carried by the plate for actuating the trip and releasing the abutment when the float is elevated to permit the pressure of the water behind the valve to close said valve.

2. A valve for a flush tank comprising a casing, a hollow slide valve in the casing, a plate pivoted to the casing, a float on the plate, the plate having a slot, a stud extending from the casing and through the slot, a lever pivoted to the valve and provided at its free end with a slot, a stud on the plate to engage the wall of the slot in the lever to open the valve, a trip pivoted to the valve and provided with an abutment which coöperates with the first-mentioned stud to hold the valve open, and means on the plate for tilting the trip to release the abutment from the first-mentioned stud to permit the pressure of water to close the valve.

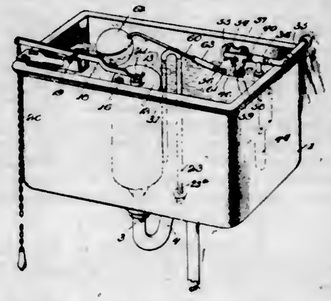
3. A valve for a flush tank comprising a casing, a hollow slide valve in the casing, a plate pivoted to the casing, a float on the plate, the plate having a slot, a stud extending from the casing and through the slot, a lever pivoted to the valve and provided at its free end with a slot, a stud on the plate to engage the wall of the slot in the lever to open the valve, a trip pivoted to the valve and provided with an abutment which coöperates with the first-mentioned stud to hold the valve open, means on the plate to tilt the trip and release the abutment from the first named stud to permit the pressure of the water to close the valve, and additional means for insuring the closing of the valve if the first mentioned means fails.

4. In a flush tank the combination of a flush pipe, means for flushing the water in the tank through the flush pipe, a water inlet pipe, a valve on the inlet pipe, said valve being out of contact with the water in the tank, a float for controlling the valve, and means for insulating the float from the valve to prevent electric currents being shunted from the earth to the water pipe passing through the float to the tank.

5. A valve for a flushing tank, including a valve opened against the pressure of the water, a member operated by the descent of the float in the tank to force said valve open, a locking element connected to and movable with said valve to hold the member in valve opening position during a rising movement of the float, and means operated as the float reaches a predetermined elevation to release said locking element to permit the valve to close under the pressure of the water.

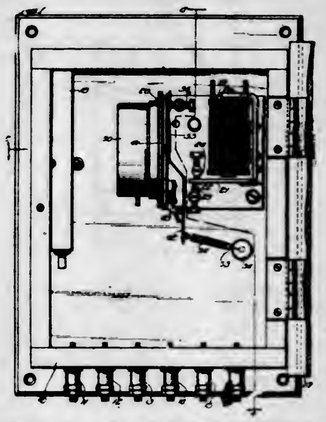
1,382,028. FLUSHING-TANK FOR SIPHON-CLOSETS. JOHN S. SWEENY, Galveston, Tex. Filed Jan. 22, 1919, Serial No. 272,526. Renewed Apr. 30, 1921. Serial No. 465,924. 6 Claims. (Cl. 4—5.)

6. In a flushing apparatus, the combination of a tank, a shell in the tank and open at the bottom, a flush pipe extending into the shell, a hollow plunger fitted over the shell and operative to cause a partial vacuum in the shell on the outward movement of such plunger relative to the shell, means for operating the shell, and a short pipe of comparatively restricted bore carried by and opening



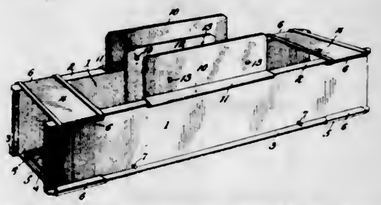
through the shell, said pipe terminating in an open end within the flush pipe below the normal level of water in the tank.

1,382,029. SWITCHING DEVICE. WILLIAM W. THOMPSON, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,533. 10 Claims. (Cl. 200—90.)



1. A relay of the character described comprising an electromagnet, a vibratory armature therefor, a circuit controlling element movable therewith, a coöperating circuit controlling element, and means for pressing said circuit controlling elements together, said means including a relatively strong spring and a relatively light spring.

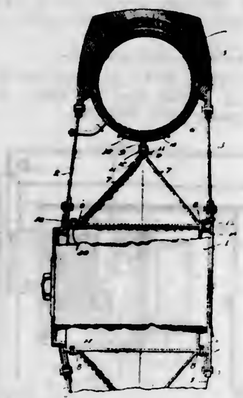
1,382,030. ANIMAL-TRAP. ABRAHAM L. TOWNSEND, Iola, Kans. Filed Mar. 8, 1921. Serial No. 450,788. 2 Claims. (Cl. 43—69.)



1. An animal trap comprising elongated side members having flanges along their top and bottom edges, upper transversely disposed end members having flanged edges to slidably engage the flanges at the top edges of the side members, lower transversely disposed end members having flanged edges to slidably engage the flanges of the

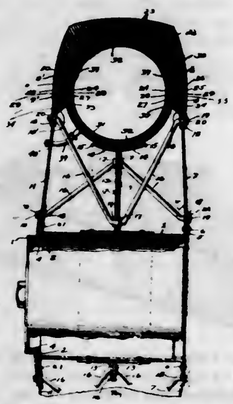
bottom edges of the side members, whereby the top and bottom end members may be separated from the side members by sliding the same lengthwise, a pair of tilting bottom sections occupying the space at the bottom of the trap between the lower end members, removable pivot rods carried by the tilting bottom sections and having their ends fitting in holes of the side members, said upper and lower end members holding the side members from spreading and the lower end members serving as supports for the outer ends of the tilting bottom sections, longitudinally slidable upstanding plates engaged with the top flanges of the side members and extending above the same, spring plates carried by the upstanding plates and provided with alined perforations, and a bait carrying pintle adapted to be snapped into a pair of said perforations.

1,382,031. AUTOMOBILE-WHEEL. RUBY R. VALE, Milford, Del. Filed June 22, 1920. Serial No. 390,793. 4 Claims. (Cl. 301—63.)



1. The combination with a hub and tire supporting means carried thereby of a cradle formed of two annular sections the sections of the cradle being joined toward their outer periphery and diverging from their jointures to their inner periphery and being fastened to the hub at their inner periphery.

1,382,032. VEHICLE-WHEEL. RUBY R. VALE, Milford, Del. Filed June 22, 1920. Serial No. 390,794. 17 Claims. (Cl. 301—63.)



1. The combination with a wheel formed of side plates and a hub, of a cradle mounted on the hub, an air chamber and a two-part casing, comprising inner and outer sections connected to the side plates, one section of said tire being supported on said cradle for vertical support.

1,382,033. PESSARY. GEORGINA JANE WALLACE, Kensington, London, England. Filed June 29, 1920. Serial No. 392,740. 4 Claims. (Cl. 128—129.)



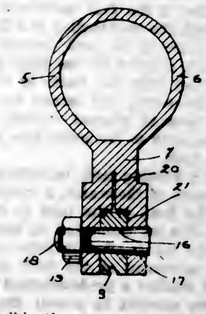
1. In a pessary, a stem, a hollow head of elastic material secured to the stem, and an operating device slidable longitudinally of the stem and having one end portion secured to the outer end of the hollow head and affording a means for drawing its ends together and thereby expanding its middle portion.

1,382,034. BRACELET. WALFRID WALLENTHIN, Attleboro, Mass., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 13, 1919. Serial No. 270,773. 4 Claims. (Cl. 63—11.)



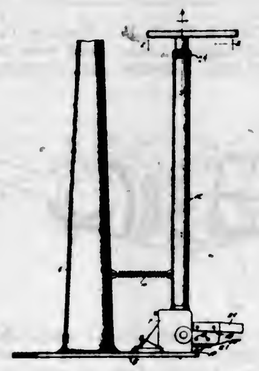
1. A bracelet comprising a one piece open band of ductile material provided with integral peripherally disposed resilient ridges adapted to cause the ends to separate in a longitudinal direction when released, means for holding the ends together, and means for guiding and limiting the relative motion of the ends.

1,382,035. COLLAPSIBLE TIRE-CORE. FRANK A. WATSON, Springfield, Ohio. Filed Aug. 25, 1920. Serial No. 406,018. 9 Claims. (Cl. 18—45.)



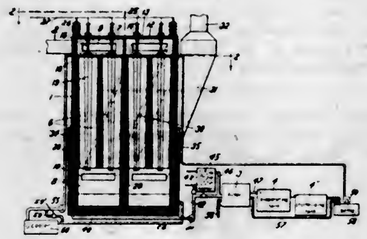
1. In a collapsible tire-core, a key section having ears protruding from the opposite ends thereof, separable body sections coöperative with said key section, said body sections having certain of the ends thereof provided with sockets arranged to receive said ears, and a plurality of nut carrying threaded and tapering bolt elements arranged to pass through openings provided in said ears and the walls of said sockets, whereby upon the tightening of the nuts of said elements said section ends will be securely united.

1,382,036. UNIVERSAL WORK-SUPPORT FOR STITCHING-MACHINES. HENRY WEBER, Chicago, Ill., assignor to Latham Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed June 20, 1919. Serial No. 305,645. 11 Claims. (Cl. 1—15.)



4. A work support for stitching machines comprising a frame; a pin mounted in the frame; a substantially L-shaped arm pivoted on said pin with one part disposed horizontally and the other part disposed vertically; a work supporting table at the top of the vertical part; a locking bolt slidably mounted and extending under said horizontal part holding the arm from rocking in one direction; a stop on the frame engaging said vertical part and holding the arm against movement in the other direction; and a lever pivoted on said pin and having a part adapted to engage the bolt and move the latter out of engagement with said horizontal part and a part adapted to engage the horizontal part of said arm and rock said vertical part away from said stop.

1,382,037. PROCESS AND APPARATUS FOR RECOVERING SOLUBLE CONSTITUENTS FROM FURNACE-FUMES. HARRY V. WELCH, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 11, 1917, Serial No. 185,779. Renewed May 2, 1921. Serial No. 466,218. 8 Claims. (Cl. 23—22.)



5. The process of obtaining potassium compound from the suspended matter of cement kiln flue gases, which consists in treating said material with water in such manner as to produce a saturated solution, then heating the resulting sludge to cause solution of insoluble potassium compound therein, and separating the resulting solution from the remaining insolubles.

1,382,038. FOOD PRODUCT AND PROCESS OF MANUFACTURE. VERNON A. WHITE, Chicago, Ill. Filed Apr. 29, 1920. Serial No. 377,454. 11 Claims. (Cl. 99—11.)

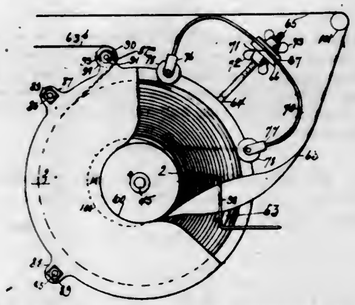
8. A process of treating food particles including first coating the particles with glycerin and then covering the coated particles with a powdery substance whereby adhesion between the particles is prevented.

1,382,039. SAFETY-HATPIN. JOSEPH WIENER, Philadelphia, Pa. Filed Oct. 21, 1920. Serial No. 418,413. 3 Claims. (Cl. 132—68.)



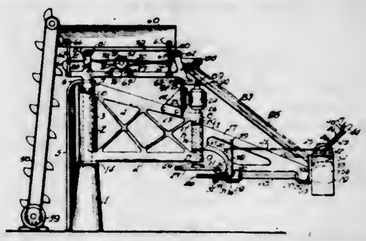
1. A hat fastener consisting of a single piece of wire bent upon itself to provide a manipulating member, the opposite ends of the wire being continued from the manipulating member to provide a pair of fastening pin members, and said members being curved longitudinally, a pair of fastening tines formed on the fastening pin members and adapted to bite into the crown of a hat and at one side of the crown of the hat and at a point above the manipulating member, said fastening pin members having their free ends in engagement with the crown of the hat at diametrically opposite points from the tines.

1,382,040. ENDLESS-FILM REEL. LYMAN A. WILSON, New York, N. Y. Filed Sept. 25, 1919. Serial No. 326,215. 9 Claims. (Cl. 88—18.7.)



1. In an endless film reel the combination of a rotary turntable for supporting and winding up an endless film and a rotating guide cone to unwind the film at its core, the said cone rotating at a greater speed than said turntable to compensate for the difference of diameters of said film at its core and at its outer windings.

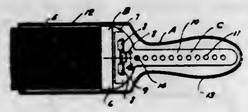
1,382,041. MACHINE FOR MAKING MOLDS. CHARLES B. WORTH, Chicago, Ill. Filed Oct. 22, 1920. Serial No. 418,827. 11 Claims. (Cl. 22—36.)



4. In a machine for making molds, the combination of a projector blade, means for movably supporting said

projector blade for movement in an orbital path, means for operating said projector blade, and means for operating said last named means to vary the rate of speed thereof at will.

1,382,042. ADJUSTABLE WIRE BRUSH. ASA WRIGHT, Long Beach, Calif. Filed Oct. 27, 1920. Serial No. 419,864. 2 Claims. (Cl. 15—32.)



1. A brush structure comprising the combination of a socket having an aperture, a detachable head slidably mounted in said socket, said head having a series of apertures for registration with the aperture of said socket, a bristle carrier detachably secured to said head, and a pin for insertion in registering apertures whereby the projection of the bristles may be adjusted.

1,382,043. FINGER-RING ATTACHMENT. ELMER F YOUNG, Bay City, Mich. Filed May 21, 1920. Serial No. 383,045. 2 Claims. (Cl. 63—17.)



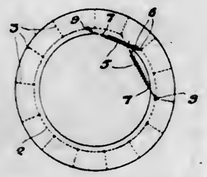
1. A finger ring attachment comprising an arcuate member having a thick center, the free ends tapering to a vanishing point at substantially the horizontal axis of the ring, downwardly projecting lips integral therewith adapted to straddle the ring and vanish at the free ends of the attachment.

1,382,044. BELT-FASTENER. WILLIAM F. YOUNGBLODT, Denver, Colo. Filed July 18, 1919. Serial No. 311,858. 2 Claims. (Cl. 24—31.)



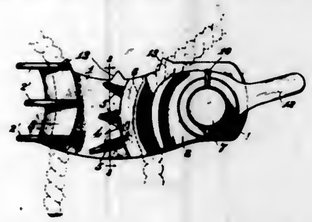
2. A belt fastener comprising a substantially cylindrical body member inwardly split at its opposite ends to provide a pair of prongs at each end and a metal body portion of relatively short length.

1,382,045. TIRE-CHAIN RETAINER. ELMER ZIGLER, Fort Pierre, S. D. Filed Oct. 2, 1919. Serial No. 327,905. 1 Claim. (Cl. 152—14.)



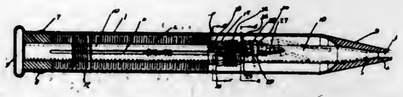
A tire chain retainer comprising a pair of coiled springs provided at the opposite ends with hooks, the hooks at one end being adapted for connection to the free ends of one of the side chains of a tire chain, a plurality of links secured to the hooks at the opposite ends of said springs to permit a special chain drawing tool to be passed through one of these links, and separate hooks attached to the end links, said last hooks being adapted to be connected with one of the links of the aforesaid side chain to retain the entire chain in position on the tire.

1,382,046. CABLE TAKE-UP. WILLIAM C. F. ZIMMERMAN, Jr., Davenport, Iowa. Filed Sept. 14, 1918. Serial No. 254,093. 3 Claims. (Cl. 24—134.)



1. A cable take-up comprising a substantially flat elongated plate stiffened with ribs along its under face and at its upper face having a hook also stiffened by continuations of the ribs from the under face, the said plate having a ridge spaced from the hook and outstanding from the same face of the plate as the hook, said ridge being formed with a cable receiving groove facing in the same direction and lying in substantially the same longitudinal planes of the plate as the bight of the hook, and an eccentric clamp pivoted to the plate in position to coöperate with the groove in the ridge for clamping a cable therebetween.

1,382,047. PENCIL. ALBERT E. ALLSWORTH, Peoria, Ill. Filed July 29, 1920. Serial No. 399,824. 13 Claims. (Cl. 120—15.)



13. In a self sharpening pencil, in combination, a tubular casing, alined tubes in said casing, one rotatable and the other being non-rotatable, a lead holder, propelling means for said holder connected to said rotatable tube, means to rotate said tube, sharpening means on said non-rotatable tube and arranged to be engaged by the lead and moved therewith axially of said casing, means to guide the sharpening means as it is propelled to permit the passage of the lead, and retractable means for said sharpening means.

1,382,048. WIRE-CONNECTING DEVICE. ANTOINE ASCHERI, Neuilly-sur-Seine, France. Filed Aug. 17, 1920. Serial No. 404,189. 1 Claim. (Cl. 173—259.)



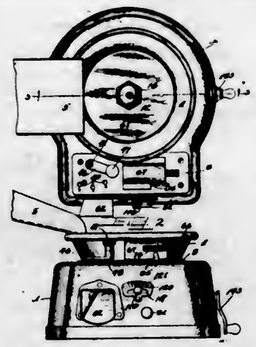
In a wire connection, the combination of a screw-threaded rod; a lower part screwed on said rod and having a diametrical open end slot provided therein for the reception of the wire to be connected; an upper part adapted to snugly fit and telescope with the lower part and having a diametrical open end slot coinciding with the slot in the lower part and coöperating therewith to secure the wire between the upper and lower parts; and means comprising a pin and slot connection between the upper and lower parts to maintain said slots alined and to permit the upper part to be slid upward away from the lower part and then to be swung aside to facilitate the introduction of the wire to the slots while maintaining the upper part and the lower part structurally connected.

1,382,049. METHOD OF SECURING A NIPPLE TO A HOLLOW SHELL AND ARTICLE PRODUCED THEREBY. ROBERT SAYER ASPINWALL, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 22, 1920. Serial No. 390,983. 6 Claims. (Cl. 113—116.)



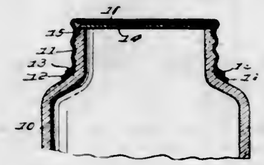
1. The method of securing a nipple to a shell which consists in forming an aperture through the wall of the shell by forcing into the interior thereof in split apart portions a section of said wall, inserting a nipple through such aperture, splitting the end of said nipple and bending the split apart portions outwardly so as to interlock between the tongue portions formed from the wall of the shell.

1,382,050. COIN-COUNTING MACHINE. HUGO J. BAUR, Chicago, Ill., assignor to Johnson Coin Counting Machine Company, a Corporation of New York. Filed June 25, 1919. Serial No. 306,606. 17 Claims. (Cl. 133—8.)



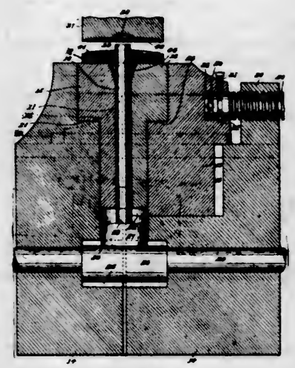
1. In a coin counting device, the combination of a disk, a ring through which coins are deposited on the disk and spaced from the latter to afford an annular passageway adapted to receive the coins flatwise therein, means for rotating the disk and ring simultaneously in opposite directions, and counting mechanism adjacent the annular passageway adapted to be actuated by coins in the passageway moving thereby.

1,382,051. LINING FOR JAR-CAPS AND METHOD OF SEALING JARS. ELMER BEAVERS, Waltham, and WILLIAM A. WEBBER, Watertown, Mass., assignors to Sani-Tite Cap Company, Boston, Mass., a Corporation of Massachusetts. Filed June 30, 1919. Serial No. 307,835. 3 Claims. (Cl. 215—43.)



1. As a new article of manufacture a disk of sheet material adapted to be used within the cap or top of a fruit jar or the like, said disk being coated with a quantity of paraffin or the like sufficient to flow into and close the joint between the skirt of the jar cap and the neck of the jar when heat is applied thereto.

1,382,052. METHOD OF UNITING THE HEADS AND STEMS OF VALVE MEMBERS. JAMES BIRRELL, Chicago, Ill., assignor, by direct and mesne assignments, to Super Valve Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 11, 1919. Serial No. 281,965. 5 Claims. (Cl. 29—156.7.)

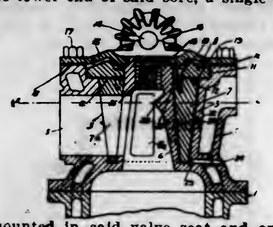


1. A method of mounting a valve head upon a heated mobile stem, consisting in the following steps, to wit: preventing movement of one end of the stem, forcibly engaging the other end of the stem with a die for upsetting into engagement with the outer face of the valve head, and then exerting longitudinal pressure upon the stem whereby an integral shoulder is formed upon the stem in engagement with the inner face of the valve head.

1,382,053. VALVE FOR INTERNAL-COMBUSTION ENGINES. JOHN BLACK, Hulatt, British Columbia, Canada. Filed Apr. 15, 1920. Serial No. 374,109. 1 Claim. (Cl. 123—190.)

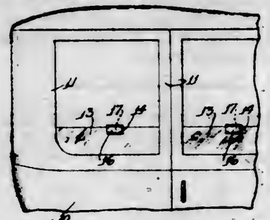
In an internal combustion engine, a cylinder head having an inlet and an outlet port and a valve seat through which said ports extend, a hollow stem disposed centrally of said valve seat having a port through which communication between said inlet and outlet ports respectively and the engine combustion chamber may be established, said stem having a threaded bore through its upper end, and

its inner periphery provided with a deflecting projection adjacent the lower end of said bore, a single ported valve



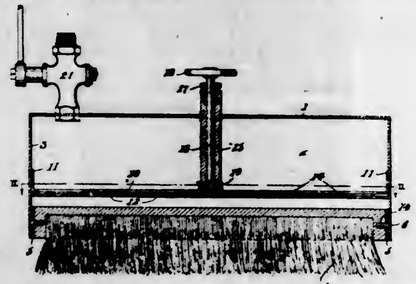
rotatably mounted in said valve seat and on said stem, and a gear secured to the upper end of said valve rotatable therewith.

1,382,054. ANTIRATTLER. HAROLD S. BLAIR, Long Branch, N. J. Filed Apr. 30, 1919. Serial No. 293,715. 1 Claim. (Cl. 296—48.)



An anti-rattler for the glass panel of an automobile comprising a pair of normally divergent resilient legs connected by a curved bight portion, and a sheet of friction material secured to the inner faces of the legs and bight portion and terminating adjacent the marginal edge portions of the legs and bight portion.

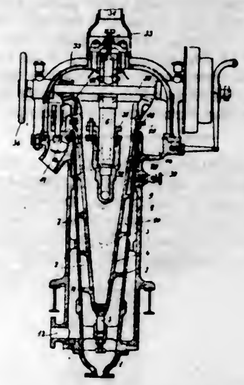
1,382,055. FOUNTAIN-BRUSH. IWAN BOJKO, Rome, N. Y., assignor of one-third to Joseph Yadwisinczak, Rome, N. Y. Filed Jan. 22, 1921. Serial No. 439,214. 2 Claims. (Cl. 15—13.)



1. In a fountain brush of the type described wherein a casing has an apertured partition secured therein and a brush head secured in the casing below the partition, with guide flanges carried by the opposite sides of the partition, a sliding apertured valve plate guided in its movements by the partition flanges, a rack bar carried by the valve plate and extending longitudinally thereof, a perpendicular shaft journaled in said casing and a pinion carried by the lower end of said shaft engaging the said rack bar to shift the valve plate upon rotation of the perpendicular shaft.

1,382,056. APPARATUS FOR THE CONTINUOUS SEPARATION OF SOLIDS FROM LIQUIDS. ANTOINE BONTEMPS and GERHARD NICOLAAS VIS, Paris, France. Filed Nov. 21, 1917. Serial No. 203,279. 3 Claims. (Cl. 210—186.)

1. In a continuous separating apparatus of the character described, the combination of a vertical cylinder provided with an outlet near its base, an inverted-cone-shaped filtering wall supported therein and having a bottom inlet and an annular upper outlet, an inverted-cone-shaped conveyer-screw with a greater included angle than the



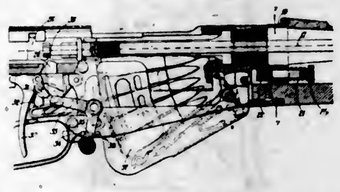
cone-shaped filtering wall and revolubly mounted within said filter wall, a receiving trough surrounding the upper end of said cylinder and having an outlet in its bottom, and conveying means working in said trough.

1,382,057. TRENCH DIGGING AND CLEANING SHOVEL. CHARLES BOSICK, Denver, Colo. Filed Aug. 30, 1920. Serial No. 406,866. 3 Claims. (Cl. 294—55.)



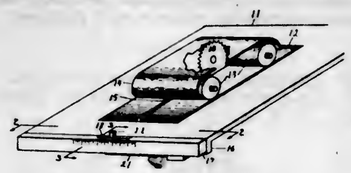
1. A trench shovel comprising a U-shape member whose inner side carries a roller adapted to run upon a sidewalk, and whose outer side has an inclined portion and a vertical portion.

1,382,058. AUTOMATIC FIREARM. EMILE ALEXANDRE LOUIS BOURDELLES, St.-Denis, France, assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St.-Denis, France, a Corporation of France. Filed July 30, 1917. Serial No. 183,617. 4 Claims. (Cl. 42—3.)



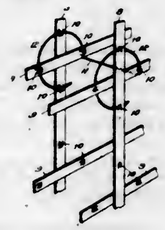
1. In a gas operated automatic fire arm, a plug having a plurality of holes enabling the action of the gases of discharge to be increased or diminished, the said plug being capable of adjustment from the outside by means of a lever-handle passing out through the stock and arranged at right angles to the barrel in such position that it does not interfere with the fixing of the bayonet, said plug having a conical head, a seat for the head and a spring active to retain the conical head on its seat to form a gas tight joint.

1,382,059. SAW-GAGE. CHARLES H. BUDD, New Albany, Ind. Filed Sept. 29, 1919. Serial No. 327,072. 2 Claims. (Cl. 143—168.)



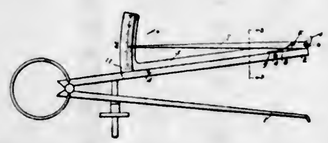
1. In combination with a saw table having a depending marginal flange, a bar attached to the outer face of said flange, said bar having a recess on its inner face, a flat spring, a stop at one end of said spring projecting therefrom at right angles to its plane and adapted to extend above said table through said recess, and a bracket extended from the other end of the spring provided with means whereby it may be attached to said flange.

1,382,060. REINFORCED CONCRETE STRUCTURE. SEWARD CHARLES, Washington, D. C. Filed Mar. 26, 1918. Serial No. 224,825. 4 Claims. (Cl. 72—50.)



3. A concrete structure having embedded therein oppositely disposed series of intersecting reinforcing bars, in combination with interposed stirrups, each of said stirrups arranged and adapted to connect the bars of each series and to space one series of said bars from the other.

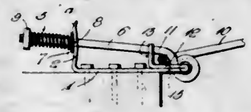
1,382,061. INDICATING CALIPER ATTACHMENT. GUST V. CHELSTROM, Minneapolis, Minn. Filed Jan. 3, 1920. Serial No. 349,304. 2 Claims. (Cl. 33—148.)



1. An attachment for calipers comprising in combination a base adapted to be attached to a caliper leg, a graduated arc shaped extension from said base and in the plane thereof, a bell crank shaped pointer hinged to said base at the opposite end from said arc shaped extension, the legs of said bell crank being of different lengths, one leg of said pointer movable as an indicator over the graduated extension and the other serving as a contact member for the calipers, a spring connecting said base and said pointer.

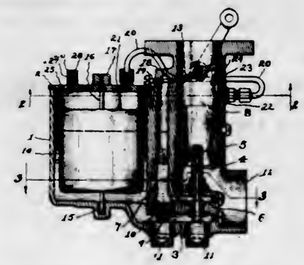
1,382,062. TRACTOR-HITCH. CHRISTIAN CHRISTIANSEN and EMIL NORDLING, Sioux Falls, S. D. Filed Oct. 4, 1920. Serial No. 414,603. 7 Claims. (Cl. 213—67.)

1. A hitch comprising a support, a draft lever fulcrumed at one end on said support and normally lying adjacent the same, said lever being adapted for passage through a draft link, a lug extending from said support



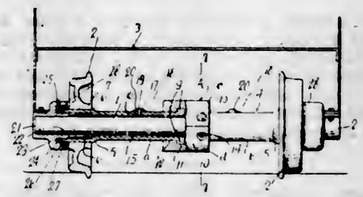
across the free end of said lever, and a spring carried bodily by said lever and coöperable with said lug to releasably hold said lever in draft position.

1,382,063. CARBURETER. JAMES O. CUNNINGHAM, Indianapolis, Ind. Filed Mar. 23, 1920. Serial No. 368,080. 4 Claims. (Cl. 158—36.)



1. The combination with a carbureter formed with a mixture passage, a suction pipe communicating with the mixture passage, fuel lifting means associated with the suction pipe, and air deflecting means arranged within the mixture passage of the carbureter for directing a high velocity jet of air across the mouth of the suction pipe.

1,382,064. BALL-BEARING AXLE. FREDERIC J. COCHRAN, Mount Vernon, Ill. Filed Dec. 22, 1919. Serial No. 346,441. 2 Claims. (Cl. 295—36.)

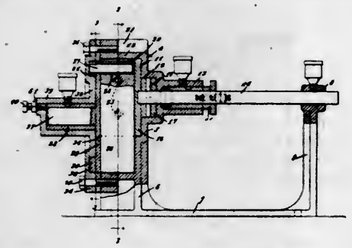


1. A ball and roller bearing axle of the character specified, comprising an inner stationary shaft, a hollow sleeve revolubly mounted thereon and provided at opposite ends with cylindrical enlargements, a circular series of bearing rollers arranged in the enlargement at each end of the sleeve, around said shaft, hollow caps freely mounted on opposite ends of said shaft and held in position by the truck frame, said caps provided at their inner ends with annular ball races and bearing balls arranged in said ball races against the ends of the sleeve.

1,382,065. ROTARY WATER-MOTOR OR PUMP. FELIX H. CRAGO, Hot Springs, Mont. Filed Sept. 25, 1919. Serial No. 326,190. 5 Claims. (Cl. 103—44.)

1. In a device of the class described, a stator; a rotor and a plate at one end of the rotor, the rotor and the plate being journaled on different axes, the rotor being in contact throughout a portion of its periphery with the inner curve of the stator, the plate being of larger diameter

than the rotor; a blade mounted for right line reciprocation in the rotor and coöperating at its outer end with



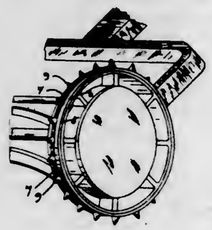
the inner curve of the stator; and a connecting element carried by the plate adjacent to the periphery thereof, the connecting element being mounted to rock in the blade.

1,382,066. HOG-OILER. JAMES R. CURRAN, Shenandoah, Iowa. Filed Apr. 26, 1919. Serial No. 292,970. 7 Claims. (Cl. 119—157.)



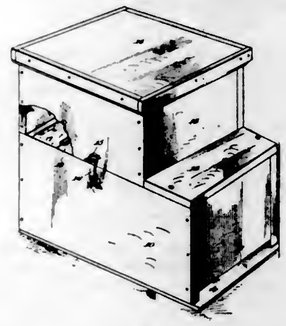
1. In a device of the class described, a frame, a gate mounted therein to swing about a horizontal axis and biased to assume normally a vertical position, a rotary cylindrical oil-container carried at the lower end of the swinging gate, said container having perforations at one side thereof, and means tending to keep the perforate side of the container uppermost.

1,382,067. NON-SKID AND TRACTION BAND FOR LAWN-MOWER WHEELS. LEO B. DE HYMEL, Denver, Colo. Filed Dec. 8, 1919. Serial No. 343,331. 5 Claims. (Cl. 301—40.)



5. A band of the class described, comprising a fibrous body member, a thin metal member applied thereto exteriorly, studs applied to the metal member and having brads which enter the body member on opposite sides of the studs, terminal suds detachably applied to the band, and an adjusting screw engaging said terminal studs, the latter being perforated to coöperate with the screw.

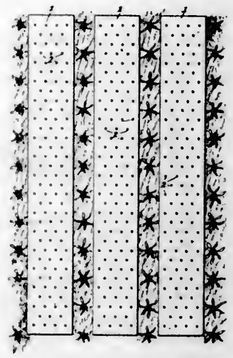
1,382,068. BEEHIVE. JAMES ROBERT DEWEES, Bancroft, W. Va. Filed Feb. 18, 1920. Serial No. 359,831. 3 Claims. (Cl. 6—2.)



1. A bee hive including a casing, and a plurality of frames mounted within the casing and provided with individual imperforate side walls respectively closing each of the frames at one side thereof.

3. A bee hive including a brood case, and a queen box mounted in said case and formed with solid top, bottom, side and end walls, there being bee passages formed medially through the side walls and other bee passages formed through the top and bottom walls.

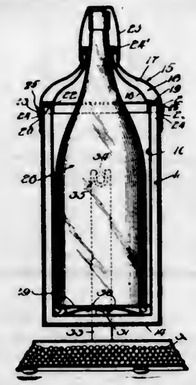
1,382,069. METHOD AND MEANS FOR ENHANCING THE GROWTH OF PLANTS. CHARLES F. ECKART, Honolulu, Hawaii. Filed Mar. 1, 1921. Serial No. 448,834. 5 Claims. (Cl. 47—36.)



3. A method of enhancing the growth of plants, which comprises superimposing of the ground a multi-perforated strip of asphalt-treated material, and planting the plants or plant producing stock in the contiguous soil areas in lines which are defined by and are outside of the longitudinal margins of said strip.

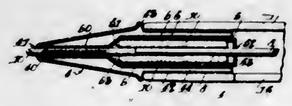
5. A mulching device, comprising a strip of paper impregnated or coated with asphaltum or the like, and having a series of relatively small perforations distributed throughout the body thereof.

1,382,070. ART OF DISPENSING COOL DRINKING-WATER. JOHN LAMPSON FATE, Chicago, Ill.; Daisy L. Fate, executrix of said John Lampson Fate, deceased, assignor, by mesne assignments, to C. Roy Gleason, Chicago, Ill. Filed July 5, 1917. Serial No. 178,561. 4 Claims. (Cl. 215—13.)



1. An iceless cooler for standard water bottles comprising a metal, double-wall container having air exhausted from the space between the walls and open at its top and adapted to receive through its top a removably mounted bottle, and an upwardly tapered metal, double-wall cover, having air exhausted from the space between its walls, removably applied to the open top of the container and having an open cap receiving neck at its top through which the neck of the bottle extends.

1,382,071. PENCIL AND PEN HOLDER. AMBROSE FLEMING, Alexandria, Va. Filed Aug. 7, 1920. Serial No. 401,950. 4 Claims. (Cl. 120—10.)

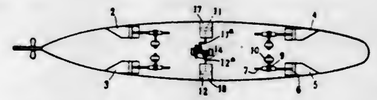


4. As a new article, a writing implement of the character described comprising a tubular casing, a pencil holding attachment including a tubular extension slidably mounted within one end of the casing and having an apertured tapered end, the said attachment including a container removably mounted within and frictionally engaging the aforesaid tubular extension and having a guide for holding the pencil lead, as it is being ejected into the opening in the tapered end of the shell, a magazine composed of a series of longitudinal pockets radially disposed about a central longitudinal passage, one end of the pockets of the magazine being closed, the closed end of the magazine having a guide passage, said magazine being slidably mountable within the tubular extension of the container and a plunger pin slidable through the guide aperture in the end of the magazine and through the aforesaid central longitudinal passage, the said pin being adapted for engaging and ejecting a lead sustained within the said longitudinal passage and through the lead guide tube and the aperture in the front end of the outer shell, and means operable from the outside of the casing for effecting adjustment of the pusher pin.

1,382,072. PROCESS AND APPARATUS FOR DETERMINING THE AMOUNT OF CARBON IN FERROUS METAL. WILLIAM F. FINKL, Chicago, Ill. Filed June 16, 1919. Serial No. 304,466. 4 Claims. (Cl. 23—3.)

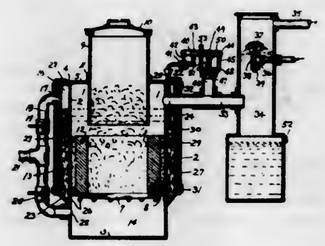
1. The process of determining the amount of carbon in ferrous metal which consists in passing the carbon dioxid produced from the carbon of the ferrous metal through a dry, physical mixture in a finely divided state of an hydroxid of an alkali metal and fibrous material so as to cause the carbon dioxid to be absorbed thereby.

1,382,073. SUBMERGIBLE VESSEL. LOUIS FORT, Jersey City, N. J. Filed June 28, 1917. Serial No. 177,512. 4 Claims. (Cl. 114—16.)



1. A submersible vessel having a plurality of "trimming" tubes opening outwardly through the hull of said vessel, pistons traversing said tubes, individual means for driving each of said pistons in opposite direction to vary the displacement and "trim" of the vessel, means for controlling the movement of said individual means, and means for controlling the buoyancy of the vessel at its critical point of loss of buoyancy.

1,382,074. SUCTION GAS-GENERATOR. JOSEPH FRANKLIN, Smithtown, New South Wales, Australia, assignor to The Efficient Gas Power Company, Limited, Sydney, New South Wales, Australia. Filed June 12, 1919. Serial No. 303,676. 1 Claim. (Cl. 48—63.)

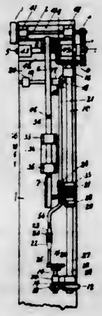


A suction gas generator comprising a gas generating chamber having a cover, a steam generating and superheating chamber surrounding the gas generating chamber, a furnace in the lower portion of the gas generating chamber including brackets secured to the lower walls of the said chamber and firebars supported on said brackets, a lining of firebrick for said furnace carried on said brackets, a fuel feeding hopper provided with a lid extending through the cover of said gas generating chamber and disposed above said firebrick lining, an ash pit below said firebars having a plurality of openings therein communicating with said steam generating chamber, a gas outlet pipe leading from the gas generating chamber and extending through the walls of said steam generating chamber, a water receiving trough mounted on the walls of the gas generating chamber, a plurality of layers of wire netting disposed within said steam generating chamber and around the wall of said gas generating chamber below said trough, and means for feeding air and water to said steam generating chamber.

1,382,075. MACHINE FOR PLACING RINGS ON BOBBINS. STEPHEN R. GLEASON, Lowell, Mass., assignor to H. Hutchins Parker and Allan D. Parker, Copartners, Lowell, Mass., doing business under the name of Walter L. Parker Co. Filed Feb. 21, 1920. Serial No. 360,486. 3 Claims. (Cl. 29—84.)

1. In a machine for placing rings on bobbins, the combination of a base, with a worm feed shaft revoluble thereon, a feed worm carried thereby, a ring feed rod in

removable contact with said worm, a slidable and detachable cone guide on one end of said rod, a stepped table opposite said cone intermittently revoluble by said worm



shaft, and a plunger having fingers adapted to pass over said cone guide, together with driving means for said plunger and worm shaft.

1,382,076. MUSICAL INSTRUMENT. IVAN GRAČANIN, Barton, Ohio. Filed Dec. 10, 1920. Serial No. 429,750. 6 Claims. (Cl. 46—46.)



1. A musical instrument of the type described comprising a box like casing having an open side, a plurality of spaced relatively thin strips extending transversely of the open side, and a flexible sheet overlying said transverse strips.

1,382,077. WATERPROOF COMPOSITION. SPENCER C. GRAVES, St. Louis, Mo. Filed Feb. 21, 1921. Serial No. 446,847. 4 Claims. (Cl. 134—11.)

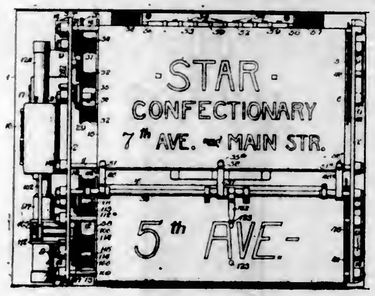
2. An improved water proof composition, comprising denatured alcohol, pure benzol, acetone U. S. P., soluble cotton and corn starch.

1,382,078. DETACHABLE MUD-SHOE FOR TRACTORS. MORGAN A. GREENE, Rupert, Idaho. Filed Mar. 16, 1920. Serial No. 366,214. 3 Claims. (Cl. 301—41.)



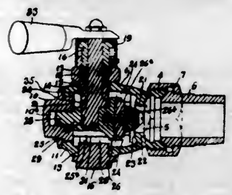
2. A tire-chain comprising traction plates, each formed with inwardly projecting flanges at two opposite edges and with an outwardly projecting traction blade on its opposite side from said flanges, links pivotally connecting the flanges of each traction plate to those of an adjacent traction plate, and tire-engaging studs extending inward from the inner surfaces of the traction plates and adapted to fit into cavities in a tire when the chain is in operative position on the tire, said flanges being adapted to receive the tire therebetween when the chain is being attached to the tire.

1,382,079. COMBINED ADVERTISING DEVICE AND STREET-INDICATOR. JOHN A. GREER, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,822. 8 Claims. (Cl. 40—52.)



1. In a device of the character described, in combination, two rolls, a display web extending between and connected with said rolls, two rotary members, one for each roll, adapted to be driven simultaneously in opposite directions, a clutch for connecting each rotary member with its associated roll, a single solenoid for driving said rotary members, electrically actuated means in circuit with said solenoid for energizing the same and operating one of said rolls at predetermined intervals to wind the web thereon, means in said circuit and controlled by the movement of the web for deënergizing said solenoid and disengaging the clutch from the winding roll at predetermined intervals, and means in said circuit for operating the other clutch for reversing the direction of movement of the web.

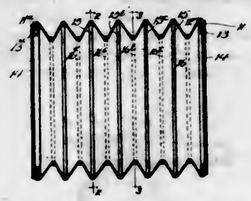
1,382,080. RADIATOR-VALVE. WILLIAM HAAS and CHARLES W. RINGELSPAUGH, Dayton, Ohio, assignors to The William Haas Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 18, 1919. Serial No. 324,504. 3 Claims. (Cl. 251—40.)



1. In a radiator valve, a casing comprising a port and oppositely disposed bearing apertures arranged substantially at right angles to said port and a bearing arranged intermediate said bearing apertures substantially at right angles thereto, a piston operable to open and close said port supported in said bearing and having guide lugs to prevent rotative movement of said piston, a valve stem rotatably supported in one of said opposite bearing apertures eccentrically connected with said piston and adapted to actuate the valve piston to full open or closed position by partial rotation of said stem, and a plug in the other of said opposite bearing apertures having a contact surface coöperating with said guide lugs.

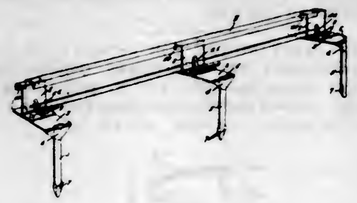
1,382,081. BELLOWS. PAUL HEILIGER, Forest Park, Ill. Filed Sept. 16, 1920. Serial No. 410,604. 2 Claims. (Cl. 230—2.)

1. The method of forming bellows comprising the use of cylindrical fabric, the forcing within said fabric of distending rings, placing restraining rings over said fabric on either side of said distending rings, alternately putting in position distending and restraining rings until the



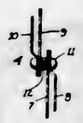
proper length of bellows is formed, placing at the end of said bellows end rings, pulling the fabric over the outside of said rings and securing it in place by a plate ring.

1,382,082. CONCRETE-FORM. JOHN N. HELTZEL and FRANCIS O. HELTZEL, Warren, Ohio. Filed Mar. 28, 1919. Serial No. 285,764. Renewed Mar. 10, 1921. Serial No. 451,332. 10 Claims. (Cl. 25—118.)



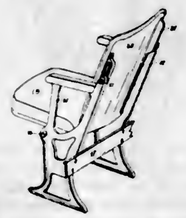
8. A structure of the class described, including a supporting pedestal having a base plate and an upright member secured to said base plate, said member being provided with a laterally projecting rib.

1,382,083. VALISE-HINGE. ISIDOR HEYMAN, Oakland, Calif. Filed Feb. 12, 1920. Serial No. 358,115. 2 Claims. (Cl. 16—104.)



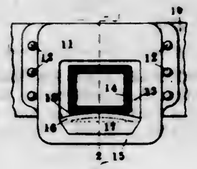
1. A valise hinge including two pairs of hinge plates pivoted together one plate of each pair being offset from the other plate.

1,382,084. OPERA-CHAIR. ISIAH HIMES, Marshalltown, Iowa. Filed Dec. 30, 1920. Serial No. 434,095. 1 Claim. (Cl. 155—84.)



In a device of the class described, parallel supporting members provided with arm rests and inwardly extending seat and back pins formed integral, a seat and back member pivotally connected to each other, the said seat member being provided with brackets designed to detachably coact with the said seat supporting pins, the said back member being provided with channel members designed to be slidingly mounted on said back supporting pins, each of the said channel members being provided with a slot through which its coacting pin may be released from the channel when the said pin is in one position of its movement.

1,382,085. STRIKING-BLOCK FOR RAILWAY-CARS. LOUIS A. HOERR, St. Louis, Mo. Filed July 19, 1920. Serial No. 397,168. 3 Claims. (Cl. 213—42.)



1. The combination with a coupler provided with a shank, of a striking block provided with an opening adapted to allow the insertion and removal of the coupler shank, said striking block being provided with a coupler shank wear surface, said wear surface being incapable of lateral movement and being curved in a direction at right angles to the length of the coupler shank.

1,382,086. SOUND-REPRODUCER. JOSH HOFFAN, New York, N. Y. Filed Apr. 3, 1913, Serial No. 758,603. Renewed Nov. 15, 1919. Serial No. 338,323. 1 Claim. (Cl. 274—35.)

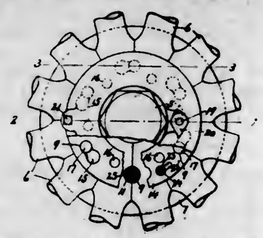


In apparatus of the class described, the combination with a talking machine sound box having a diaphragm and provided with an opening in the side of said box in the rear of said diaphragm, of a stylus-lever fulcrumed upon said sound box and having an arm which passes through said opening into said sound box, an air-tight closure for said opening permitting movement of said lever arm, and articulating means joining said arm with said diaphragm.

1,382,087. VEHICLE-WHEEL. LAWSON U. HURLBURT, Syracuse, N. Y. Filed Jan. 27, 1920. Serial No. 354,349. 4 Claims. (Cl. 301—9.)

4. In a vehicle wheel, the combination of a hub having its inner end provided with an annular flange, spokes abutting against the outer face of said flange, bolts secured to the flange and extending outwardly beyond the outer faces of the spokes and having their outer ends provided with heads, a clamping ring applied to the outer faces of the spokes and rotatable into and out of

engagement with the heads of the bolts, a cap nut screwed upon the outer end of the hub and against the outer face



of the clamping ring and provided with means for adjusting the ring rotarily, and means for locking the cap nut to the clamping ring.

1,382,088. TYPOGRAPHICAL ELEMENT. SAMUEL A. JACOBS, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,190. 7 Claims. (Cl. 199—66.)



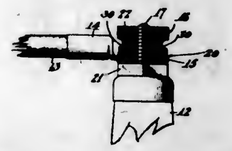
2. In a typographical font, the combination of a set of main elements formed with primary characters, and a group of auxiliary elements each formed with an appendage character consisting of a primary-character-extension and an accent associated therewith and located wholly within the lateral limits thereof, the said accents differing from each other, and the said auxiliary elements being adapted to be used conjointly with the main elements to produce by the juncture of their appendage and primary characters differently accented compound characters having their accents located above or below the same in a setwise direction.

1,382,089. WHEEL FOR LAWN-MOWERS AND THE LIKE. ALLEN JOHNSTON and CHARLES M. KRANER, Ottumwa, Iowa, assignors to Johnston Pressed Gear Company, Ottumwa, Iowa, a Corporation of Iowa. Filed Jan. 25, 1918. Serial No. 213,624. 14 Claims. (Cl. 301—6.)



1. A wheel comprising an external sheet metal portion flanged at its outer edge and pressed outwardly at its center, a smaller sheet metal flanged portion joined to the inner side of said first-mentioned portion and pressed oppositely at its center to form a bulging hub, said sheets being perforated centrally to receive a bearing, gearing secured to the inner side of the smaller flanged portion, and a corrugated strip secured to the outer side of the flange of the larger portion.

1,382,090. SPARK-PLUG TERMINAL. EUGENE A. JONES, Los Angeles, Calif. Filed Jan. 6, 1920. Serial No. 349,822. 3 Claims. (Cl. 175—183.)



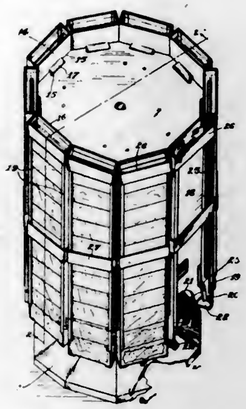
1. In an internal combustion engine, a spark plug having a connection stud in the top thereof; a high tension terminal; insulation interlocked with said terminal and having an opening through which said stud passes without electrical contact with said terminal; and a nut threaded on said stud and clamping said insulation to the top of said spark plug, said insulation being cut away to form a spark gap over which electrical discharges may pass from said terminal to said stud.

1,382,091. MARKING-TAG FOR ANIMALS OR BIRDS. ZEBULUM COLVIN KETCHUM, Ottawa, Ontario, Canada. Original application filed Apr. 2, 1919, Serial No. 287,005. Divided and this application filed July 6, 1920. Serial No. 394,016. 1 Claim. (Cl. 40—3.)



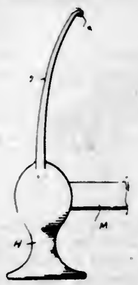
A tag comprising a U-shaped strip of material having one end bent laterally and formed with a V-shaped point and having the other end offset in a curvilinear manner, adapted to fit closely to and support the V-shaped point when bent around the same.

1,382,092. STORE APPARATUS. CHARLES KILMER, Tacoma, Wash. Filed July 3, 1920. Serial No. 393,868. 5 Claims. (Cl. 211—7.)



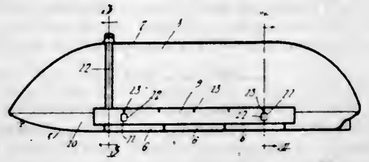
1. An apparatus for the purpose set forth comprising a supporting frame, and a display compartment carried by said frame and having an open front side and provided with means at its lower end for supporting columns of packages, one in front of another with the lowest package in one column in stepped relation to the lowest package in another column.

1,382,093. PEENING-TOOL FOR HARNESS-MAKERS. CHARLES H. KRENGEL, Twin Falls, Idaho. Filed Dec. 6, 1919. Serial No. 342,875. 1 Claim. (Cl. 69—20.)



As a new article of manufacture, an implement for a harness maker including an elongated peen curved longitudinally, the outer end portion of the peen having a cylindrical edge overlying the concaved face of the peen and extending in a direction transverse to the peen and entirely thereacross, said cylindrical edge offering no obstruction to the convex face of the peen.

1,382,094. HYDROAIRSHIP. CHARLES E. LABADIE, Michigan City, Ind. Filed June 10, 1920. Serial No. 387,929. 3 Claims. (Cl. 244—6.)



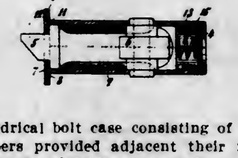
1. A device of the class described including a seaworthy hull, a superstructure rigidly secured to the hull, a passenger compartment common to both the hull and superstructure, a gas compartment partially surrounding the passenger compartment, said gas compartment being common to both the hull and superstructure, passageways leading from the passenger compartment and extending through the hull, closures for the passageways, means for ventilating the passenger compartment, and ballast tanks positioned between the passenger compartment and the keel portion of the hull.

1,382,095. STRUCTURAL UNIT. JOHN RAYMOND LAMBERT, San Antonio, Tex. Filed Feb. 3, 1920. Serial No. 356,097. 3 Claims. (Cl. 72—82.)



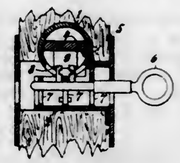
1. As a new article of manufacture, a structural unit having a core consisting of waste sheet metal crushed and compressed into suitable form and having a weather proof coating.

1,382,096. BOLT WITH DIVIDED CASE. SOFUS ANDREW EMIL LARSEN, Copenhagen, Denmark. Filed June 3, 1920. Serial No. 386,228. 2 Claims. (Cl. 70—16.)



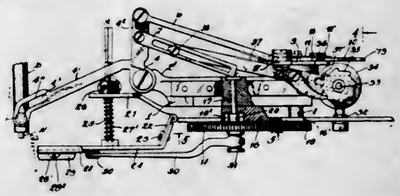
1. A cylindrical bolt case consisting of two semi-cylindrical members provided adjacent their rear ends with holes; a front plate rigidly connected to the front end of one cylindrical member and detachably connected to the front end of the other member; and a back plate having marginal projections fitting in the holes in both cylindrical members and also having a projection separate from said marginal projections which is detachably engaged with one cylindrical member.

1,382,097. DOUBLE TUBULAR LOCK. SOFUS ANDREW EMIL LARSEN, Copenhagen, Denmark. Filed June 3, 1920. Serial No. 386,230. 2 Claims. (Cl. 70—16.)



1. A double cylinder lock comprising two cylinders disposed with their peripheral walls in contact and their axes crossing each other at right angles and offset relatively to each other, one cylinder having an opening in one side thereof, and a hook on the other cylinder engaged in said opening.

1,382,098. SEWING-MACHINE ATTACHMENT. FREDERICK WILLIAM LÆBERECHT, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,467. 6 Claims. (Cl. 112—77.)



1. In combination with a sewing machine, an attachment for stitching button holes, comprising a cam controlled horizontally swinging presser plate, a longitudinally slidable gripping member on said presser plate, and a common means for transmitting motion to said cam and gripping member from a reciprocating part of said machine.

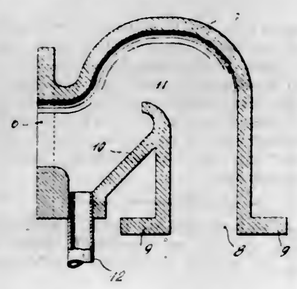
1,382,099. JUMP-SPARK ELECTRIC GAS-LIGHTER. ALVIN J. D. LENZ, Evanston, Ill. Filed Oct. 21, 1920. Serial No. 418,399. 5 Claims. (Cl. 175—296.)



1. In a device of the class described, a central terminal adapted to be supplied with electric energy and a coil of

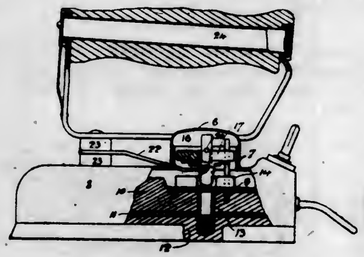
conducting material about and clear of said central terminal extending beyond the end of said terminal, the end of said coil extending inwardly in the coil to a point in proximity to the first terminal, for the purposes set forth.

1,382,100. STEAM-SEPARATOR. CARL T. LINDSTROM, Allentown, Pa., assignor to John T. Lindstrom, Allentown, Pa. Filed Sept. 13, 1920. Serial No. 409,955. 2 Claims. (Cl. 183—75.)



1. A separator comprising an elbow casing having an inlet at the side and a steam outlet at the bottom, the outer bend of the elbow being raised above the inlet to form a dome-shaped chamber, and the inner bend of the elbow having an inclined wall leading upwardly into said chamber and terminating in a backwardly curved lip, and an outlet for liquid at the lower end of said inclined wall.

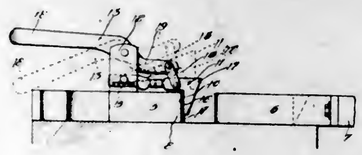
1,382,101. ELECTRICALLY-HEATED ARTICLE TO AVOID DAMAGE THROUGH OVERHEATING. GEORGE HARRY LOFTS, Hobart, Tasmania, Australia. Filed Apr. 15, 1920. Serial No. 374,146. 2 Claims. (Cl. 219—25.)



1. In a cutoff for an electrically heated article, the combination of a heated member, a heat conducting spindle projecting therefrom, a non-heat conducting shearing member slidable on the spindle, a fusible pin in the spindle and forming a stop for said shearing member, and against which the shearing member bears, electric contact elements one of which is movable with the shearing member, and a spring exerting its tension on said movable contact element and said shearing member to cause the latter to cut the pin and thereby enable the movable contact element to separate from the other contact element when the fusible pin is rendered soft by excessive heat of the heated member and the conducting spindle.

1,382,102. WORK-CLAMP FOR BULLDOZERS AND LIKE PRESSES. JOZEPH LUKASZEWSKI, Hammond, Ind. Filed May 29, 1920. Serial No. 385,119. 2 Claims. (Cl. 153—25.)

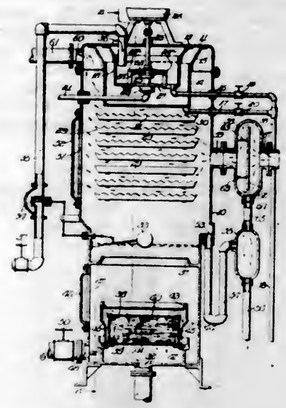
1. A work clamp of the character described, for bulldozers and like presses, comprising a clamp member having a shank portion provided with a jaw at one end thereof for clamping the work against one die of the press, the bearing face of said jaw being arranged at right angles to the length of the shank of the clamp member, a support, said clamp member being fulcrumed on said support at a point back of the work, an operating lever fulcrumed on said support, and having a handle distantly removed from said jaw, and operative connections between said clamp member and lever.



1,382,103. PROCESS OF TREATING WOOD. LEONIDAS N. LYON, San Antonio, Tex. Filed Nov. 3, 1919. Serial No. 335,470. 1 Claim. (Cl. 99—12.)

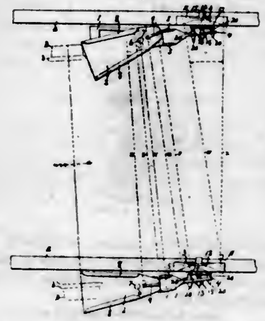
A method of treating wood which consists in raising the temperature of the body of liquid sealing and permeating medium to a point above the boiling point of water but below the flaming point of the medium; immersing the wood, in a natural state, in the medium, maintaining the wood immersed until the moisture in the wood is converted into steam and rises through the medium, and withdrawing the wood from the medium leaving the wood sealed by the medium to prevent a reabsorption of moisture.

1,382,104. COMBINED FEED-WATER HEATER AND ASPIRATOR. EDWARD F. MCCARTHY, Chicago, Ill., assignor to Vacuum Machinery Co., Chicago, Ill., a Corporation of Wisconsin. Filed Jan. 21, 1918. Serial No. 213,114. 2 Claims. (Cl. 261—124.)



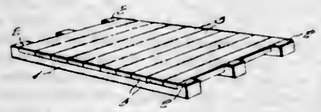
1. An apparatus of the character described embodying a tank, a suction creating device in the upper portion thereof and having communication with a fluid passage, a filter in the tank at the bottom thereof, there being an outlet from the tank through which the liquid passes after passing through the filter, a series of trays arranged in the tank above the water level therein for receiving and breaking up the water from the suction creating device, means for supplying water to the suction creating device, and means for directing exhaust steam through the streams of water from the said trays.

1,382,105. CAR-REPLACER. FREDERICK D. MCGINLEY, Pleasant Beach, N. Y. Filed Oct. 21, 1919. Serial No. 332,245. Renewed May 10, 1921. Serial No. 468,203. 7 Claims. (Cl. 104—260.)



1. In a car replacer, in combination with a rail, a base section supported along one side of the rail and having a longitudinally inclined top face, a leader plate resting on said inclined face and hinged to swing laterally toward and from the rail and provided with raised ribs along its opposite edges in spaced relation and converging toward one end, and means for clamping the base to the rail.

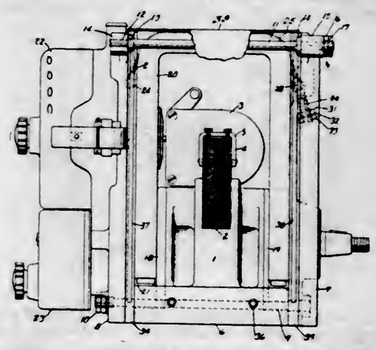
1,382,106. BRIDGE CONSTRUCTION. PHILIP A. MCKENZIE, Houston, Tex. Filed May 13, 1920. Serial No. 381,110. 2 Claims. (Cl. 72—8.)



2. A pre-cast bridge for placement over a gutter comprising a pair of rectangular concrete girders of uniform thickness throughout their lengths, being provided at their opposite ends with comparatively short upstanding lugs forming stops, and a plurality of rectangular concrete slabs associated with the girders, said slabs being of the same thickness as the girders and having their undersurfaces notched at their opposite ends to simultaneously provide shoulders abutting the vertical inner faces of the girders, and reduced end portions resting on the upper faces of the girders, said reduced ends being of a thickness equal to the height of the lugs to render their upper faces flush with the upper ends of said lugs, the outermost slabs bearing against the aforesaid stops to hold the slabs together.

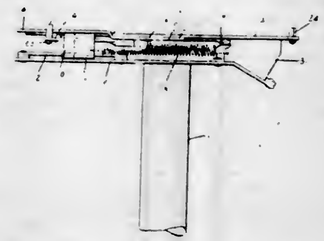
1,382,107. IGNITION-DYNAMO. SAMUEL C. MCKEOWN, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Oct. 19, 1917. Serial No. 197,441. 7 Claims. (Cl. 171—209.)

1. In an ignition dynamo of the type having the plane of its permanent magnets longitudinal with the driving shaft whereby the core pole pieces carrying an induction coil within the arch of the magnets are alternately connected to rotor limbs of constant magnetic polarity, the combination with said core pole pieces of a rotor housing constituting a support for the pole pieces and terminating in a base member, cross members carried by said base and supporting said magnets, end plates for said dynamo, bolts passing through said base for clamping the bottom of said plates securely to the base, rods for spacing and clamping



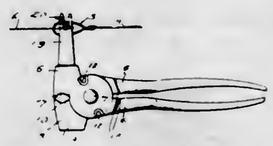
in fixed position the tops of said plates and a holding strap for the magnets fixed to one plate and adjustably secured to the other as and for the purpose described.

1,382,108. SHOE-SHINING STAND. MAURICE M. MANN, Austin, Ind. Filed Jan. 17, 1921. Serial No. 437,889. 3 Claims. (Cl. 15—58.)



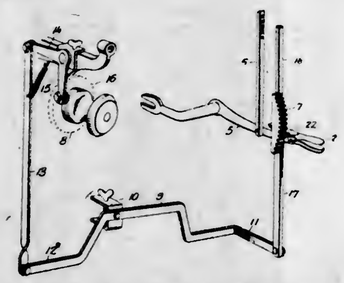
3. In a shoe shining stand, a stationary platform, a plate fixed to said platform, a toe plate slidable on said first mentioned plate, a clip secured to the under face of said toe plate, a guide bar carried by the platform and passing through said clip for holding the toe plate in alinement, and springs for normally holding the toe plate at its innermost position.

1,382,109. COMBINATION-TOOL. COLUMBUS U. MATSLER, Plainview, Tex. Filed Mar. 22, 1920. Serial No. 367,783. 1 Claim. (Cl. 140—123.)



A wire stretching tool of the character described comprising a handle member having an enlarged extension on one end, said extension being disposed in right-angular relation to the handle member, the outer end portion of the extension being reduced to provide a shoulder, said reduced portion tapering from said shoulder to the end of said reduced portion, said end being bifurcated for the reception of one end of a wire, whereby said wire may be wound upon one of the fingers resulting from the bifurcation to prevent slipping.

1,382,110. EJECTOR CONTROL FOR TYPE-BAR MACHINES. JOSEPH U. MEISTRELL, Brooklyn, N. Y. Filed Mar. 30, 1920. Serial No. 370,025. 8 Claims. (Cl. 199—60.)



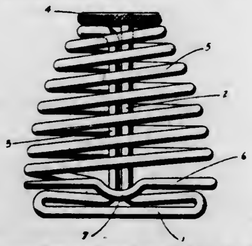
4. In an ejector attachment, the combination of a mold disk pinion, an ejector control lever, a stationary toothed segment, a latch on the lever and adapted to engage the segment, a lever adapted to be actuated when the pinion is shifted, and a rod carried at the outer end of a second lever that is actuated by the latter lever and adapted to shift the latch and release the control lever.

1,382,111. STORE-FRONT CONSTRUCTION. ROBERT MICHAELS, Chicago, Ill., assignor to Blasco Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1919. Serial No. 327,866. 7 Claims. (Cl. 189—78.)



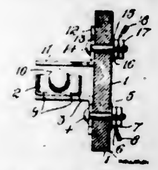
1. An article of the class described, comprising two vertical, opposing members, one of which is movable longitudinally and toward the other, and coacting elements on the respective members that guide such movable member in such movement.

1,382,112. FASTENING DEVICE. GROVER IRA MITCHELL, Madison, Wis. Filed July 1, 1920. Serial No. 393,311. 3 Claims. (Cl. 24—261.)



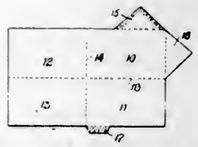
1. A fastening device comprising a cross member, a central stem, and a spring adapted to exert pressure upon parts interposed between the spring and the cross member, said spring having projections adapted to register with slots in the parts held.

1,382,113. SPARK-GAP DEVICE. ALEXANDER Q. NASH, St. Louis, Mo. Filed May 17, 1920. Serial No. 381,903. 5 Claims. (Cl. 175—183.)



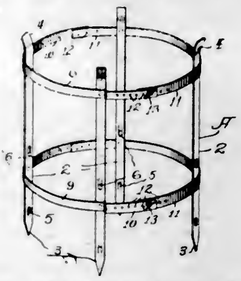
1. In a spark gap device, spaced terminals, one forming a walled inclosure for a contact ball freely movable therein, and the other terminal maintaining the ball against displacement from said inclosure.

1,382,114. ENVELOP. THOMAS J. NORGELL, Alois, Wis. Filed Jan. 19, 1918, Serial No. 212,767. Renewed Aug. 4, 1920. Serial No. 401,280. 1 Claim. (Cl. 229—92.7.)



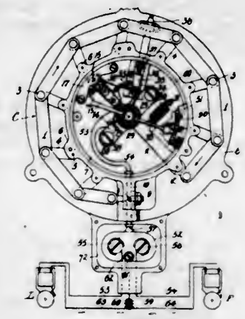
A combined envelop and letter sheet comprising a rectangular portion adapted to be folded into parallel registration to provide letter sheets, and such sheets folded into parallel registration to envelop size so that one portion of one letter sheet forms the back of the envelop and the other portion of the same sheet the front of the envelop, a triangular shaped flap carried by the entire free end edge of the front portion of the envelop, a triangular shaped flap carried by a portion of the longitudinal edge of the front portion of the envelop, and both of said flaps adapted to be folded on to the rear portion of the envelop to occupy a triangular space at one end thereof and overlap each other with the last mentioned flap retaining the first mentioned flap in a folded closed position, and an auxiliary flap on a portion of the free longitudinal edge of the back portion of the envelop adapted to be folded over that portion of the free longitudinal edge of the front portion of the envelop unoccupied by the second mentioned flap, and be sealed against the front portion of said envelop.

1,382,115. COLLAPSIBLE HOLDING DEVICE. WALTER F. OHME, Minneapolis, Minn. Filed Sept. 8, 1919. Serial No. 322,367. 4 Claims. (Cl. 248—41.)



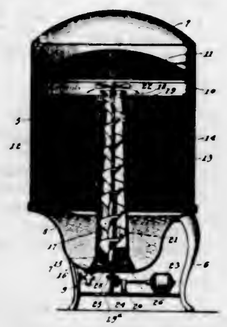
1. A collapsible and adjustable holder adapted to removably hold a receptacle with its bottom away from the ground, including vertically extending legs, having sharp piercing ends, ground engaging barbs formed on said piercing ends to hold said legs against easy disengagement from the ground, upper and lower divided bands adapted to collectively hold said legs, the lowermost band secured to said legs being adapted to form a buoying ring for said holder and support, and shoulders projecting inwardly from each of sair legs and positioned above said buoying ring to hold a receptacle removably in said holder with its bottom away from the ground.

1,382,116. TEMPERATURE-INDICATING APPARATUS. OLOF HENRY OLSON, Kensington, New South Wales, Australia, assignor to William John Whitley Strong, Melbourne, Victoria, Australia. Filed Oct. 14, 1919. Serial No. 330,678. 10 Claims. (Cl. 73—52.)



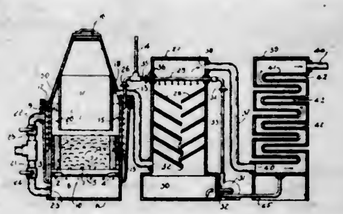
1. In temperature indicators, a chain composed of links of metal possessing a high co-efficient of expansion, a lever connected to the free end of said chain and operable by the expansion of the latter, and means actuated by said lever for indicating temperature.

1,382,117. DISH-WASHER. JOHN OPOČENSKÝ, Chicago, Ill. Filed June 4, 1920. Serial No. 386,553. 3 Claims. (Cl. 141—9.)



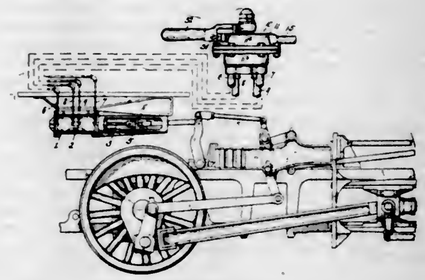
3. A dish washer comprising a suitable closed receptacle, a tube positioned axially within said receptacle, a screen element forming the lower portion of the wall of said tube, propeller blades within said screen element, a shaft extending from said blades through said tube, a helical flange on said shaft from a point adjacent said blades to one adjacent the top of said tube, rotatable blades above the discharge end of said tube, means for actuating said shaft, and suitable structures within said receptacle to receive the articles to be washed.

1,382,118. SUCTION GAS-GENERATOR. STANLEY PHILLIPS, Iluka, New South Wales, Australia, assignor to The Efficient Gas Power Company Limited, Sydney, New South Wales, Australia. Filed Aug. 7, 1919. Serial No. 315,942. 2 Claims. (Cl. 48—63.)



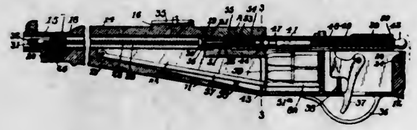
1. A suction gas generator comprising a gas generating chamber, a wire spiral fastened around the exterior of the wall thereof and galvanized thereon, a steam generating and superheating chamber secured to the gas generating chamber and inclosing the wire spiral, a furnace in the last mentioned chamber including brackets secured to the side walls thereof, firebars carried on the brackets and a fireclay lining for said furnace supported on said firebars, an ashpit below said firebars, and the side walls of the ashpits being provided with a plurality of openings establishing communication with the steam generating chamber, a fuel feed hopper mounted on the head of said steam generating chamber and having a gas outlet port in one of its walls, a lid for the hopper, a chute fastened to the interior of the hopper above said port and depending centrally thereon with its lower end located above said fire clay lining, means for feeding water to said wire spiral and means for feeding air to said steam generating chamber or said ashpit substantially as described.

1,382,119. FLUID-PRESSURE CONTROL. CHARLES J. PILLIOD, Toledo, Ohio, assignor to Daniel Searles, trustee, Toledo, Ohio. Filed Dec. 18, 1917. Serial No. 207,704. 6 Claims. (Cl. 121—38.)



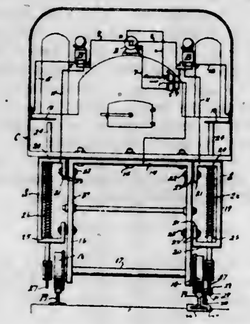
1. In a control of the class described, a valve case having a fluid pressure supply inlet; a pair of working passages, and an exhaust passage; two movable disk valve members one working over the other and mechanically connected together so as to have a limited relative rotary and predetermined movement, each valve member provided with a plurality of passages, said members being operable to cause predetermined relations of these passages and to register to open one of said working passages to said supply inlet, and the other to said exhaust passages and vice versa; and a control means connected to one of said disk valve members, for directly operating both of said valve disk members.

1,382,120. DUMMY PRACTICE-RIFLE. ROBERT E. REARDON, Ottawa, Ontario, Canada. Filed Mar. 12, 1917. Serial No. 154,302. 6 Claims. (Cl. 124—15.5.)



1. As an article of manufacture a dummy gun having a member extensible from the barrel thereof and spring means holding said member normally retracted.

1,382,121. ELECTRIC SIGNALING SYSTEM. JOHN RECKTENWALD, Venedy, Ill., assignor of one-sixth to William Meyer, one-sixth to William F. Segelhorst, and one-sixth to William C. Steinman, Venedy, Ill. Filed Dec. 22, 1920. Serial No. 432,469. 2 Claims. (Cl. 246—71.)

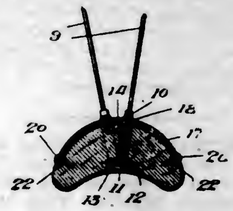


1. An electric signaling system comprising, in combination, a trackway, a highway signal, contact members carried by a rail of the trackway, said highway signal being in electrical connection with the contact members and a rail of the trackway, rolling stock traveling on the trackway, a source of electrical energy carried by said rolling stock, a shoe carried by the rolling stock for contact with the contact members, said shoe being movable in a vertical direction toward or from each of the contact members, means for constantly urging the shoe downwardly, an electrical connection between the shoe and the source of electrical energy, a member carried by the rolling stock and contacting with a rail, means for electrically connecting said last named member with the source of electrical energy, a contact member carried by the rolling stock, a normally open shunt circuit connecting the second named contact member and the electrical connection between the shoe and the source of electrical energy, a signal carried by the rolling stock and interposed in the first named electrical connection, and coacting means carried by the shoe and each of the first named contact members for closing the shunt circuit through the last named contact member and thereby cutting out the last named signal.

1,382,122. BICYCLE OR SIMILAR WHEEL. GILBERT M. RICKETTS, Columbus, Ohio. Filed Aug. 10, 1920. Serial No. 402,620. 6 Claims. (Cl. 301—98.)

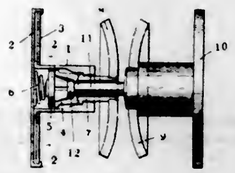
1. A wheel including a wooden felly, wire spokes anchored therein, and a bar secured to the inner periphery of the felly adjacent to the spokes.

6. A wheel including a wooden felly, spokes anchored to the felly, a stiffening and reinforcing bar inserted in



the inner periphery of the felly adjacent to the spokes, and a metal strip fitting the inner periphery of the felly and protecting same from the elements.

1,382,123. CUFF-BUTTON. JEAN BAPTISTE SABOURIN, Norton, Mass., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 30, 1921. Serial No. 456,879. 4 Claims. (Cl. 24—102.)



4. A button having two separable parts, one part carrying a locking post, and the other part comprising a barrel, a spring impelled disk therein, locking members in the barrel and engaged by the disk to hold them in locking position relative to the post, and a sleeve slidable in the barrel and through which the locking post extends, the extremity of said sleeve having a tapered surface to engage with the locking members to force them to release position.

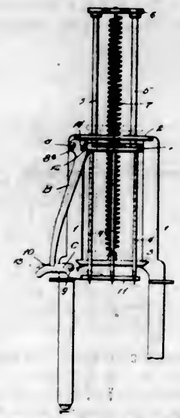
1,382,124. PROCESS OF DELIMING HIDES. WALLACE SAVAGE, New York, N. Y. Filed Apr. 26, 1919. Serial No. 292,930. 3 Claims. (Cl. 149—3.)

1. The herein described process of "deliming" depilated hides which consists in subjecting them to the action of a base adsorbing earth paste, allowing the paste to remain in contact with the hides until impurities are removed, and then removing the limed-paste from the hides.

1,382,125. MOLE-TRAP. OSCAR J. SCHROETER, St. Louis, Mo. Filed July 31, 1920. Serial No. 400,457. 1 Claim. (Cl. 43—80.)

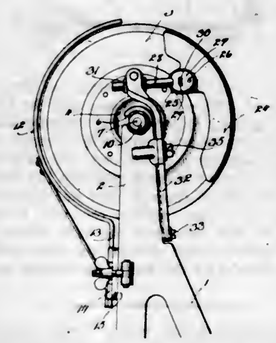
A trap, comprising a vertically-disposed supporting frame that is adapted to be arranged in the ground, a spring-actuated, pronged member reciprocatingly mounted in said frame, a lever provided at its upper end with an offset portion that is pivotally connected to said frame, said lever having a shoulder that is adapted to move into the path of said pronged member, a latch pivotally connected to said frame in proximity to the ground and provided at one end with a cam surface on which the lower end of said lever bears when the trap is inoperative, a

notch in said latch in proximity to said cam surface for receiving the lower end of said lever when the trap is set,



and means at the opposite end of said latch that is adapted to be moved upwardly so as to release the lower end of said lever.

1,382,126. FLESHING-MACHINE. JOHN O. SCHROEDTER and JOHN KELLING, Milwaukee, Wis., assignors to Monarch Fleshing Machine Company, Milwaukee, Wis. Filed Feb. 24, 1920. Serial No. 360,616. 12 Claims. (Cl. 149—15.)



1. The combination with a fleshing machine having a fleshing knife, of a guard plate to be disposed adjacent to said knife, a lever arm pivoted to the machine to have one portion swing toward and away from the plane of the knife, and means connecting the guard plate with the lever arm.

1,382,127. POLISHING COMPOSITION. HARRY SHACKLETON, North Providence, R. I., and JOHN GORDON, New Bedford, Mass. Filed Oct. 18, 1920. Serial No. 417,612. 2 Claims. (Cl. 134—24.)

1. A polishing composition consisting solely of a mixture of raw linseed oil, malt vinegar, turpentine and alcohol proportioned to each other in equal parts.

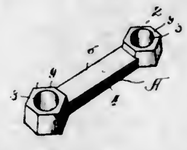
1,382,128. OIL COOKING-STOVE. JAMES SHANNON, Canonbury, and WILLIAM MORRISON SIMPSON, Hastings, England. Filed Nov. 9, 1920. Serial No. 422,938. 4 Claims. (Cl. 158—59.)

4. In an oil cooking stove the combination of a main burner head, a chamber under and in communication with said head, an oil reservoir, means for creating pressure in said reservoir, a vaporizer located above said head and in communication with the oil reservoir, a fuel nozzle in communication with said vaporizer, an adjustable needle valve controlling the orifice of said nozzle, an induction or mixing tube co-acting with said nozzle and leading into said chamber, a plurality of supplementary burner heads, a conveying tube connecting said chamber with said supplementary burners, cocks or valves for regulating the gas passing to said supplementary burners, a tube mounted to



slide in the induction or mixing tube the inner end of which projects into the chamber beneath the main burner, a coned plug mounted in said chamber and co-acting with the open end of said sliding tube to form a valve, a slot or opening in said sliding tube co-acting with the orifice of the conveying tube of the supplementary burners to keep said conveying tube always open to the induction or mixing tube and a by-pass port in said sliding tube for keeping the chamber beneath the main burner constantly open to the induction or mixing tube.

1,382,129. STORAGE-BATTERY CONNECTOR. LYTTON J. SHIELDS, St. Paul, Minn. Filed Aug. 8, 1918. Serial No. 249,022. 1 Claim. (Cl. 173—324.)



In a battery terminal connector having frustumal pyramidical shaped head portions, a shank connecting said head portions, the lower surface of said shank extending flush with the lower surface of said head portions and the upper surface of said shank being positioned below said head portions, a frustumal conical shaped opening extending through said head portions and a longitudinally extending recess formed in the lower surface of said shank.

1,382,130. BELT-BUCKLE ATTACHMENT. BENJAMIN SLOTE, New York, N. Y. Filed Dec. 1, 1920. Serial No. 427,552. 3 Claims. (Cl. 24—265.)

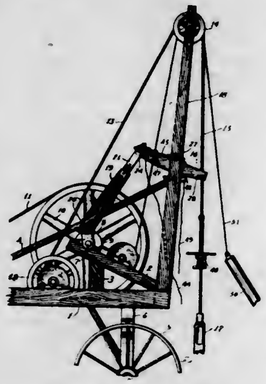


1. The combination with a buckle including a pivoted tongue carrying bar, of a frame having an intermediate portion, the frame being wholly concealed by the buckle and disposed at the rear side of the latter, and a bendable-tongue-bar-engaging means co-acting with said intermediate portion to secure the frame to the buckle.

2. A device of the character described comprising a buckle having a tongue bar and a frame carried by the buckle and located at the rear side thereof, tongue bar engaging means on the frame, and spaced fixed bars spaced relatively and respectively located at the opposite sides of said means, the said means and said bars being relatively in different off set positions, the said means and said bars adapted to co-act with each other for the retention of the folded end of a strap therewith.

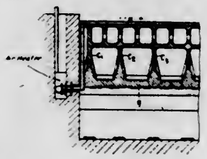
3. In a belt buckle attachment of the design adapted to detachably secure one end of a belt to a buckle comprising a substantially rectangular frame provided with an intermediate portion and bars disposed in spaced relation at respectively opposite sides of said intermediate portion, said intermediate portion and said bars adapted to receive the folded end of a strap and to hold said end fixedly folded upon itself in said frame, and means extending from said frame and adapted for connection with the tongue bar of a buckle, said means serving to position the frame at the rear side of the buckle, as and for the purpose specified.

1,382,131. MEANS FOR COUPLING AND UNCOUPLING RELATIVELY MOVABLE MEMBERS OF MACHINES. FRANCIS MARION SYNDER, Mansfield, Ohio. Filed June 19, 1920. Serial No. 390,230. 11 Claims. (Cl. 255—11.)



1. In combination, a walking beam, a crank shaft, a crank pin secured to the crank, a pitman secured to the crank pin at one end, a yoke provided on its opposite end, a shaft secured to said yoke, a base block member provided with an open bearing for the yoke shaft secured to the walking beam, and a slidable member mounted upon said base block member normally covering the open portion of the bearing.

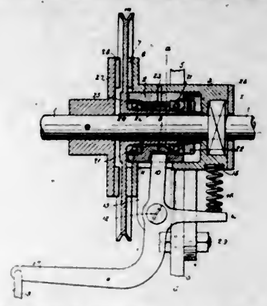
1,382,132. MOVABLE DAM OF FERROCONCRETE. OTTO SOMMER, Zurich, Switzerland, assignor to Stauwerke A.-G., Zurich, Switzerland. Filed July 1, 1920. Serial No. 393,242. 5 Claims. (Cl. 61—26.)



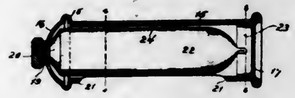
1. A movable dam having a horiozntal axis of rotation, said dam sector-shaped in cross section and having walls of ferro-concrete, and transverse partition walls thickening toward the axis of rotation.

1,382,133. DRIVING MECHANISM FOR SEWING-MACHINES AND THE LIKE. ARTHUR BEDWARD SPENCER and FRANK EDWARD WALKER, Hucknall Torkard, England, assignors of one-third to George Spencer, Lutterworth, Leicestershire, England. Filed Mar. 27, 1920. Serial No. 369,179. 6 Claims. (Cl. 192—18.)

1. A driving mechanism for the purpose described and comprising, in combination, a driving shaft, an outer bearing, an inner bearing therein supporting the driving shaft, a non-rotatable sleeve slidable in the outer bearing, a pulley mounted for rotation between said sleeve and shaft and clear of the latter, a stationary braking surface on the outer bearing, a driving surface fixed to the driving shaft, and means consisting of a spring to effect movement of the sleeve in one direction and an operable lever to move the sleeve in the other direction whereby the pulley is brought into contact with the braking surface and driving surface respectively.

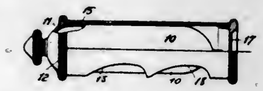


1,382,134. CONTAINER FOR COLLAPSIBLE TUBES. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed July 31, 1919. Serial No. 314,416. Renewed May 3, 1921. Serial No. 466,536. 3 Claims. (Cl. 221—60.)



1. A portable container for a collapsible tube comprising a hollow body with a head at one end the latter having a threaded opening to receive the threaded nozzle of a collapsible tube, the nozzle projecting through the head and normally closed by a screw cap, the said container having a finger opening therein whereby the contents of the tube may be ejected through said nozzle and opening by the pressure of a finger against the tube, a closure for teh other end of said container, the said closure adapted to be turned and a hood carried by said closure and adapted to be turned by the latter for closing said finger opening.

1,382,135. COLLAPSIBLE TUBE AND CONTAINER FOR THE SAME. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Aug. 1, 1919, Serial No. 314,737. Renewed May 3, 1921. Serial No. 466,537. 6 Claims. (Cl. 221—60.)



1. A collapsible tube having an integral head provided with a centrally located discharge nozzle, and also provided at its periphery with means for the removable attachment of a container.

1,382,136. COMBINED COLLAPSIBLE TUBE AND CONTAINER THEREFOR. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Aug. 8, 1919. Serial No. 316,143. Renewed May 3, 1921. Serial No. 466,538. 6 Claims. (Cl. 221—60.)

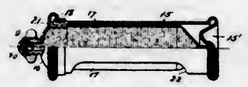
1. The combination of a collapsible tube closed at one end and open at the other, the open end being thickened,

a head detachably secured to the open end of the collapsible tube and provided with a central discharge nozzle, and a container for housing said tube, the said container



being closed at one end and open at the other, the open end being detachably secured to the outer face of the thickened open end of the collapsible tube.

1,382,137. COLLAPSIBLE TUBE AND CONTAINER FOR THE SAME. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Aug. 8, 1919. Serial No. 316,144. 4 Claims. (Cl. 221—60.)



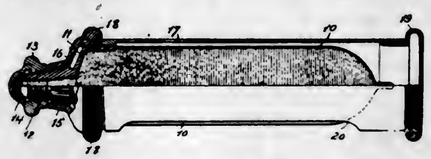
1. The combination of a container open at one end and closed at the other end; externally threaded at its open end and provided with a finger slot in its body, a head screwed to said open end and provided with a centrally located discharge nozzle normally closed by a screw cap, and a collapsible tube housed within said container, the said tube being open at one end, the latter being thickened and flanged outwardly, the said thickened end of the tube forming a snug fit with the container at the open end of the latter, and the flange on said tube overlapping the free end of the container and clamped thereto by the head bearing against the flange.

1,382,138. DISPENSING TUBE OR BOX. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Sept. 25, 1919. Serial No. 326,257. 3 Claims. (Cl. 221—64.)



1. A dispensing vessel having a nozzle provided with a discharge opening, a hollow closure mounted within the nozzle and of greater diameter than the neck of the nozzle whereby the closure will be retained within the nozzle the said closure having an opening adapted to be turned into alinement with the opening in the nozzle and with a cylindrical end projecting into the neck of the nozzle, and means secured to the closure and projecting through the nozzle whereby the closure may be turned to open or close the discharge opening in the nozzle.

1,382,139. COLLAPSIBLE TUBE AND CONTAINER FOR THE SAME. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Aug. 8, 1919, Serial No. 316,145. Renewed May 3, 1921. Serial No. 466,539. 10 Claims. (Cl. 221—60.)



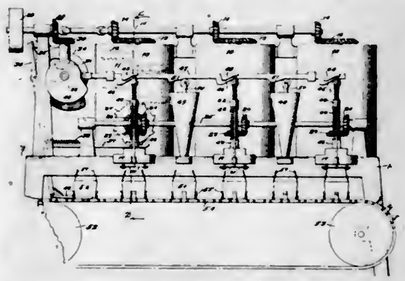
1. As a new article of manufacture, a collapsible tube having a head, a discharge nozzle communicating with the head, and a conical collar between the head and nozzle.

1,382,140. COLLAPSIBLE DISPENSING-TUBE AND CONTAINER. BENJAMIN E. D. STAFFORD, Pittsburgh, Pa. Filed Aug. 11, 1919, Serial No. 316,716. Renewed May 3, 1921. Serial No. 466,540. 7 Claims. (Cl. 221—60.)



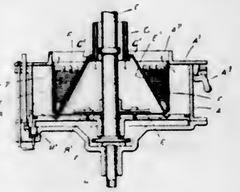
1. A collapsible tube having an integral head, the latter being provided with a discharge nozzle and also with a peripheral flange.

1,382,141. ICE-CREAM-BRICK-PACKING MACHINE. JESSE M. STICKELS, Milwaukee, Wis. Filed May 26, 1920. Serial No. 384,457. 2 Claims. (Cl. 226—100.)



1. A filling machine comprising a plurality of material containers, rotary means for receiving material therefrom, means for intermittently rotating said receiving means, and means for forcing the material from said receiving means including a horizontal bar arranged for interrupted movement and a vertical movable bar operated by the first said bar.

1,382,142. CENTRIFUGAL SEPARATOR. ROBERT ALEXANDER STURGEON, Southsea, Portsmouth, England. Filed July 15, 1919. Serial No. 310,952. 8 Claims. (Cl. 210—63.)

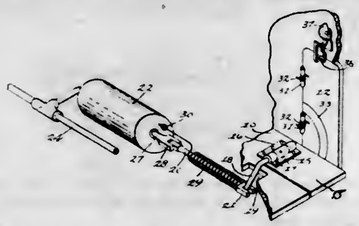


1. In a centrifugal separating machine the combination with a rotary cylindrical chamber having one end adapted to be moved in an axial direction relatively to the other end and to the cylindrical wall, of an inner wall connected to one of the end members so as to form an annular separating chamber at least one wall of this annular chamber being formed to constitute a strainer as set forth.

1,382,143. AIR-OPENER FOR DOORS. JOSEPH SZCZUREK, Chicago Heights, Ill. Filed Feb. 3, 1921. Serial No. 442,049. 4 Claims. (Cl. 105—429.)

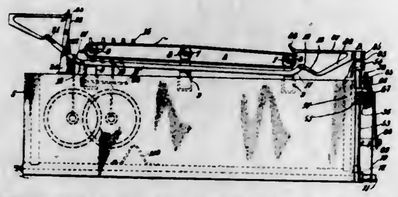
1. In a device for operating step covers and doors of passenger cars, the combination with a pair of doors on each side of the car hung on vertical axes, a pair of step covers, one for each of said doors, guide rollers on said covers to contact with said doors to open and close the same, a pair of air cylinders for each pair of step covers

on one side of a car, means for supplying compressed air to said cylinders to operate said step covers, and means



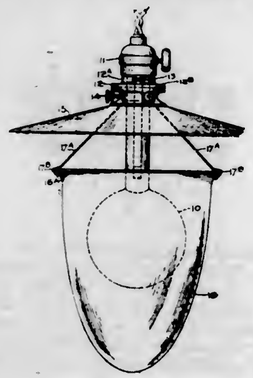
for automatically returning said step covers and doors into the original position upon the interruption of said air supply.

1,382,144. CONVEYING MECHANISM. FLOYD T. TAYLOR, Matawan, N. J., assignor to A. P. Munning & Co., Newark, N. J., a Corporation of New Jersey. Filed Jan. 30, 1919. Serial No. 274,113. 23 Claims. (Cl. 214—89.)



1. A conveying mechanism having a plurality of independently movable conveyers adapted to transport material in different receptacles, and mechanism operable independently for intermittently transferring the material from one conveyer to another.

1,382,145. SEMI-INDIRECT-LIGHTING DEVICE. HERBERT O. TOMLINSON, Wheaton, Ill. Filed Sept. 12, 1919. Serial No. 323,254. 13 Claims. (Cl. 240—92.)



1. A semi-indirect lighting device, comprising a socket to hold a lamp in depending position, a downwardly flaring reflector supported on said socket, a translucent upwardly open diffusing bowl below said reflector to receive a lamp suspended from said socket, and having an outwardly extending flange at its top, a holder having a plurality of flexible resilient arms adapted to detachably engage said flange to support said bowl, so that the bowl can be removed by springing one of said arms outwardly from said flange, and a rigid cylindric ring to which the upper portions of said resilient arms are secured in spaced relative positions, the upper ends of said resilient arms being arranged to detachably engage the inner edge of the reflector to support the bowl therefrom, so that the lower ends of said arms directly engage the bowl while their upper ends directly engage the reflector, substantially as shown and described.

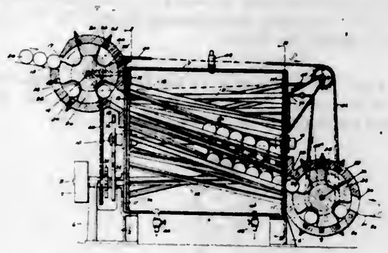
1,382,146. ALLOY. CALVIN VOS, New York, N. Y. Filed Apr. 10, 1920. Serial No. 372,954. 2 Claims. (Cl. 75—1.)

1. An alloy possessing degasifying and deoxidizing properties used in the production of steel and iron and steel castings having unusual strength and density, composed of a major portion of aluminum, a reduced portion of magnesium, and a minor quantity of uranium, ferro-silicon and iron.

1,382,147. ALLOY. CALVIN VOS, New York, N. Y. Filed Sept. 4, 1920. Serial No. 408,150. 2 Claims. (Cl. 75—1.)

1. An alloy possessing degasifying and deoxidizing properties consisting of a major quantity of aluminum, a minor quantity of magnesium, ferro-silicon and zirconium in relatively small proportions.

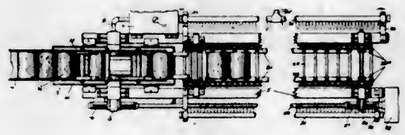
1,382,148. CONTINUOUS COOKER FOR FOODS IN CONTAINERS. SELAH E. WALKER, Portland, Oreg. Filed Nov. 15, 1919. Serial No. 338,193. 4 Claims. (Cl. 126—272.)



1. A device for cooking foods in containers, having in combination, a closable boiler, a valve mechanism upon the upper part of the boiler, comprising therein a shell having an outward receiving port and a port of discharge into the boiler in a desired position, a rotatable valve in the shell, provided with a series of semi-circular, transverse pockets in its rim, adapted to receive objects through the receiving port and discharge them through the other port into the boiler in a desired place in sequence, and valve packing means consisting of circular shoulders interiorly upon the shell walls extending into opposing grooves in the valve ends, also like shoulders upon the valve ends extending into opposing grooves in the shell walls, all adapted to receive packing between the shell walls and valve ends within the spaces adjacent to the shoulders and in said grooves, also circumferential shell segments having interior grooves adapted to receive packing, and screws extending through said shell segments, arranged to enter into engagement with such packing and adjust it to a desired position upon the opposing surface of the valve.

1,382,149. LACQUERING-MACHINE. SELAH E. WALKER, Portland, Oreg. Filed Dec. 1, 1919. Serial No. 341,738. 6 Claims. (Cl. 91—55.)

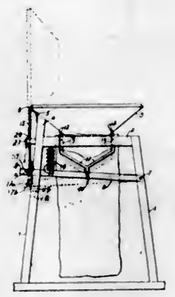
1. In a lacquering device, the combination of a tank of semi-circular form adapted to retain liquid at a desired depth therein, and a wheel rotatably mounted above the tank and extending downwardly into liquid when placed therein, said wheel having a series of outwardly opening, transverse pockets with end shoulders in each, the same being arranged, to receive objects over one side of the tank, allow them to be passed downwardly through liquid in the tank out of engagement with its ends, to thereafter elevate them out of the liquid and discharge them over the opposite side of the tank, during the rotation of said wheel.



3. In a lacquering device, the combination of a carrier frame having a track, carrier chains having transverse rollers pivoted in the chains, said rollers having shoulders near their ends arranged to travel upon the track and to support objects in a manner to retain them out of engagement with any other part of the carrier mechanism, also to rotate the objects while in transit on the carrier.

5. In a lacquering device, the combination of a carrier, and a pipe secured at a desired distance and position therefrom parallel with the carrier, the pipe having a series of orifices therein and deflectors above and below the orifices, arranged to allow air to be forced through the orifices and to be directed by the deflectors in a desired course toward the surfaces of objects resting upon said carrier.

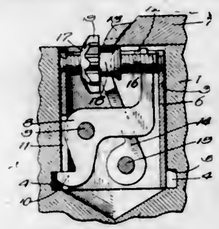
1,382,150. SACK-HOLDER. CARL WALLDOW, near San Jose, Calif. Filed Jan. 10, 1921. Serial No. 436,270. 3 Claims. (Cl. 83—26.)



1. A supporting frame, a hopper pivotally mounted thereon, sack engaging pins mounted thereon, pin actuating means pivotally and resiliently mounted thereon and pivotally connected to said pins, a depending bar pivotally mounted on said hopper and movable downwardly by the raising thereof and having a loop formed on its lower end, a detachable connection between said loop and said pin actuating means, and means mounted on said frame in the path of travel of said loop whereby the connection between the loop and the pin actuating means is separated on the downward movement of said bar and loop.

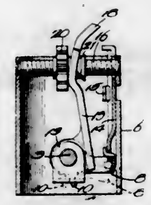
1,382,151. PRINTING-PLATE HOLDER. WALLACE S. WARNOCK, Chicago, Ill. Filed Nov. 15, 1920. Serial No. 424,026. 9 Claims. (Cl. 101—385.)

5. The combination with a printing foundation formed with cylindrical holes therein; of a carrier in the form of a cylindrical shell of a diameter permitting it to be passed down into any of said holes; a clamping jaw located above said shell and printing foundation and having an inward extension pivoted to and within the shell; a threaded rod mounted upon and extending across said shell; and a jaw adjusting nut upon said rod and formed



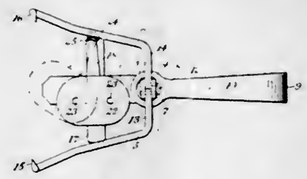
with an annular groove in which the jaw structure is received whereby the jaw is moved back and forth according to the direction in which the nut is turned.

1,382,152. PRINTING-PLATE HOLDER. WALLACE S. WARNOCK, Chicago, Ill. Filed Jan. 25, 1921. Serial No. 439,875. 10 Claims. (Cl. 101—385.)



1. The combination with a carrier; of a clamping jaw upon the carrier; a jaw actuating device upon the carrier; a printing foundation formed to receive the carrier; a lever mounted upon the carrier; and a detent in cam connection with the lever and operable thereby to be engageable with the printing foundation.

1,382,153. ANIMAL-TRAP. WINFIELD A. WELLS, Spencer, N. Y. Filed June 3, 1920. Serial No. 386,178. 3 Claims. (Cl. 43—90.)

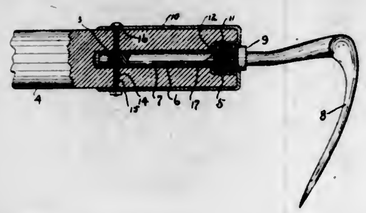


1. The combination, in an animal trap, of a base, a pair of coöperating jaw arms, each pivoted at one end to the base, and each provided at its other end with a deflected terminal prong, the prongs being adapted to overlap each other when the jaw arms are closed, tripping means, embodying a swiveled and laterally adjustable latch, for holding the jaw arms separated, and spring means for closing the same.

1,382,154. TANG-MOUNTING FOR IMPLEMENTS. ASA A. WIRT, Omaha, Nebr. Filed May 14, 1920. Serial No. 381,300. 4 Claims. (Cl. 279—86.)

1. In a tang-mounting for implements, a handle having a recess opening on its end, a ferrule provided with a recess having an aperture formed therein and mounted on the

handle, a tang provided with a boss and disposed in the aperture of the ferrule and recess of the handle, a pin traversing the ferrule, handle and tang, and a spring dis-



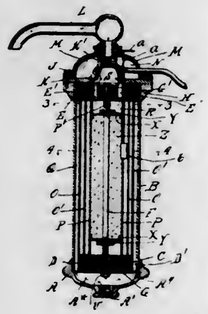
posed in the recess of the ferrule in engagement with the boss of the tang to normally press the latter outwardly of said recess.

1,382,155. TANG-MOUNTING FOR IMPLEMENTS. ASA A. WIRT, Omaha, Nebr. Filed Apr. 11, 1921. Serial No. 460,397. 1 Claim. (Cl. 279—86.)



In a tang mounting for implements, a handle having a tapered part and a recess, a ferrule provided at one of its ends to open on its aperture with a recess having an inwardly convergent wall to lie outwardly of the recess and tapered part of the handle and provided to open on its opposite end and its aperture with a second recess, a tang having an aperture and a boss and disposed in the aperture of the ferrule and recess of the handle, a pin adjacent to the ferrule traversing the handle and aperture of the tang, and a resilient member in the second recess of the ferrule engaging the boss and tending to move the ferrule for causing engagement of the convergent wall of its first named recess with the tapered part of the handle.

1,382,156. APPARATUS FOR HEATING LIQUIDS. LUIS G. ABOGADO, Mexico, Mexico. Filed May 12, 1919. Serial No. 296,303. 3 Claims. (Cl. 219—40.)



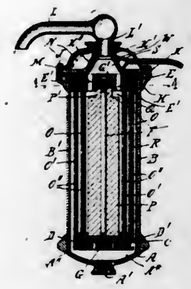
1. An electric heater for liquids, comprising a casing forming a chamber adapted to contain the liquid, an electrode located in said chamber and having its terminal edges located adjacent to each other and both on the same side of the casing, the portion of the electrode adjacent to one of said edges being nearer the center of the casing than the portion adjacent to the other electrode edge, and another similar electrode arranged in step-like fashion relatively to the first-named electrode and extending between said terminal edges of the first-named electrode, but out of contact therewith, said second electrode having an inner portion overlapped by the outer portion of the first-named electrode, and an outer portion overlapping the inner portion of the same first-named electrode.

1,382,157. PROCESS OF HEATING LIQUIDS. LUIS G. ABOGADO, Mexico, Mexico. Filed May 12, 1919. Serial No. 296,304. 3 Claims. (Cl. 219—40.)



1. The process which consists in passing an electric current across every portion of a non-whirling film of a conducting liquid moving spirally and helically at a substantially constant speed.

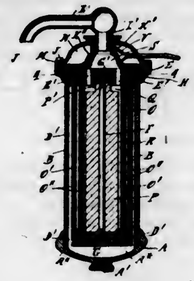
1,382,158. APPARATUS FOR STERILIZING LIQUIDS. LUIS G. ABOGADO, Mexico, Mexico. Filed June 4, 1919. Serial No. 301,772. 5 Claims. (Cl. 219—40.)



1. An electric sterilizer, comprising a casing having means for the admission and delivery of a liquid, and inert electrodes of like shape contained in said casing, each electrode comprising co-axial cylinder segments of different diameters and substantially radial portions connecting said segments, the segments of adjacent electrodes being in overlapping and underlapping arrangement respectively.

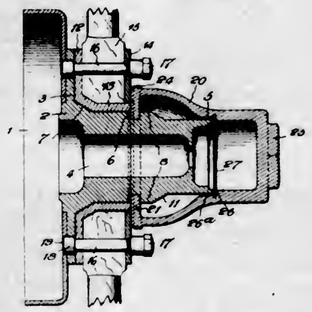
1,382,159. PROCESS OF STERILIZING LIQUIDS. LUIS G. ABOGADO, Mexico, Mexico. Filed June 4, 1919. Serial No. 301,773. 3 Claims. (Cl. 219—40.)

1. The process of sterilizing an electrically-conducting liquid, which consists in passing the liquid, in the form of a film of uniform thickness, in a spiral path, between inert electrodes, and causing a galvanic electric current (of relatively low voltage and comparatively high amper-



age) to flow across said film between the electrodes engaging the opposite surfaces of the spirally-moving film.

1,382,160. DEMOUNTABLE-HUB-ATTACHING DEVICE. ROBERT E. BAIRD, Salt Lake City, Utah. Filed Mar. 1, 1919. Serial No. 280,013. 7 Claims. (Cl. 301—9.)

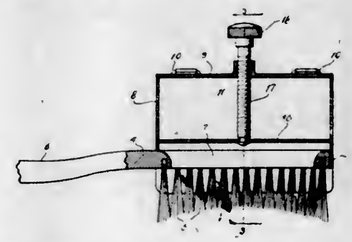


5. A hub member having lugs, and a locking member having a complementary set of lugs adapted to interlock therewith, the interengaging surface of each lug of one set comprising a flat central portion lying in a plane at right angles to the axis of the hub, and a pair of end portions lying in planes inclined to such axis and to each other, whereby relative rotation of the members in either direction causes one set of lugs to ride up the inclined surfaces of the other set, and finally rest upon the flat central surfaces thereof.

7. The combination with a fastening cap or the like adapted to be locked by an angular turning movement, of means for preventing accidental rotation of such cap, said means comprising a series of square shouldered serrations carried by said cap, and a swinging pawl having a pair of wings adapted to engage said serrations, and a pin on which said pawl is pivoted and about which it can swing to either one of two operative positions, said wings projecting substantially radially to the axis of the hub, whereby sad pawl serves to hold the cap against rotation in either direction, when swung to either operative position.

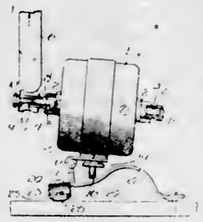
1,382,161. HEAD-BRUSH. JOHN H. BATES, Chicago, Ill. Filed June 7, 1920. Serial No. 387,263. 3 Claims. (Cl. 15—48.)

1. The combination with a brush having a longitudinally extending back provided with an opening extending nearly from end to end thereof, a handle extending and projecting from one end thereof, and bristles at the sides of said opening, of a container for the material to be forced through said opening for application to a surface by the bristles, provided with sides frictionally gripping the brush-back to secure the container and the brush



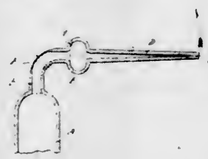
together and an end extended to lap the other end of the back, and means for forcing the material from the container and through the opening.

1,382,162. SEWING-MACHINE MOTOR. CHESTER H. BEACH, Racine, Wis., assignor to Wisconsin Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 30, 1915. Serial No. 53,232. 20 Claims. (Cl. 74—26.)



1. In a device of the class described, an electric motor having a friction driving wheel on its armature shaft, a driven wheel adjacent said friction wheel, a supporting base, and a spring engaging said base and said motor to support the latter and hold said driving wheel in yielding engagement with said driven wheel.

1,382,163. VIAL FOR THE CONSERVATION OF MEDICAMENTAL LIQUIDS. LODOVICO BECCARI, Bologna, Italy. Filed July 18, 1919. Serial No. 311,876. 2 Claims. (Cl. 215—32.)

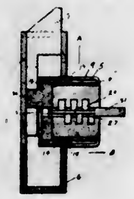


1. A glass vial comprising a container having a body and an extended neck, an enlarged globular portion on the neck, the neck being bent between the body and the globular portion so that the neck extends at right angles to the body, the outer wall of the bent part being thin whereby the neck may be easily broken.

1,382,164. KEY-LOCK. EDWARD O. BENNETT, Berkeley, Calif., assignor of fifty per cent. to Hepburn Ruhl, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 289,848. 8 Claims. (Cl. 70—46.)

1. In a lock the combination of a casing; a shell within said casing; a cylinder within said shell and separable
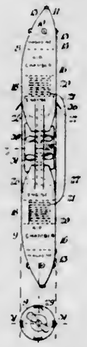
into companion segments on a line parallel with its axis; intermeshing grooves and projections on each of the companion segments for maintaining the cylinder in operative position; shell engaging means carried within the grooves and a key for moving said shell engaging means to and from engagement with the shell.



1,382,165. PROCESS OF MAKING FLUORIDS. HOWARD B. BISHOP, Media, Pa. Filed Aug. 30, 1919. Serial No. 320,796. 9 Claims. (Cl. 23—13.)

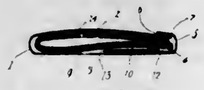
4. In the process of making fluorids the steps which consist in treating a mixture of a fluorid of an alkaline element and a gelatinous silicious compound by chemically reacting on the silicious compound to render it substantially soluble and then separating the resulting substantially soluble silicious compound from the fluorid.

1,382,166. TORPEDO. CHARLES BLUM, Philadelphia, Pa. Filed May 22, 1917. Serial No. 170,138. 7 Claims (Cl. 102—2.)



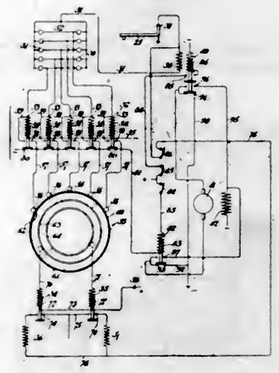
1. A torpedo structure of ultimately separable sections, primarily connected as a unit, each section including self-propelling means constructed and arranged to operate after said sections are separated.

1,382,167. CHECK-HOLDER. HERMAN BOCK, St. Paul, Minn. Filed June 25, 1920. Serial No. 391,660. 2 Claims. (Cl. 281—19.)



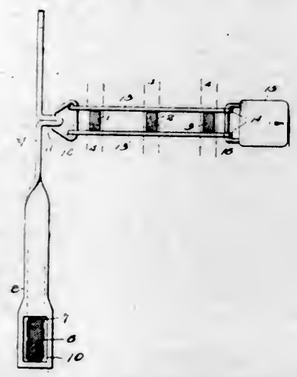
1. In a device of the character described, the combination of a holder centrally foldable to form covers, one of said covers being folded at its end to form a flap foldable over the other cover of the holder, a cross member secured to the inner face of one cover and extending across the face thereof, said cross member being unconnected to said cover intermediate of its sides whereby to form an unobstructed passage way, a check pad consisting of a plurality of checks connected together at one end, and a backing strip secured at one end to the connected end of the pad and extending inwardly underneath the pad, said backing strip having a line of fold whereby said pad may be anchored within said holder by passing said strip inwardly between the cross member and supporting cover and molding the free end of said strip inwardly between said cross member and pad.

1,382,168. AUTOMATIC DOOR-OPENING DEVICE. FREDERICK F. BRUSH, Los Angeles, Calif., assignor to Elevator Safety Appliance Company, a Corporation of California. Filed June 23, 1919. Serial No. 306,230. 8 Claims. (Cl. 188—52.)



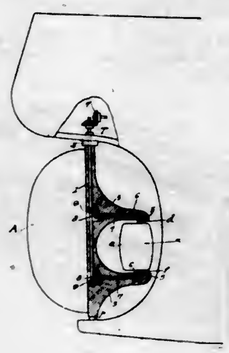
1. An elevator comprising a car moving in a hatchway, a door closing a doorway into said hatchway, power operated mechanism for opening and closing said door, a manually operated safety bar closing an opening in said car which registers with said doorway when the car is in a proper position, and means for rendering said mechanism inoperative whenever and during the time said bar is in its open position.

1,382,169. LEVER-LOCK. JOSEPH S. CAMPBELL, Ogden, Utah. Filed Dec. 7, 1920. Serial No. 428,960. 2 Claims. (Cl. 70—126.)



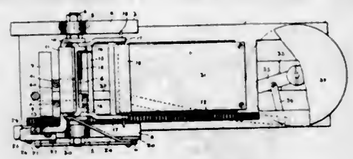
1. The combination with an anchoring device having a slot and attached to an anchor, of a link pivoted to said device, a pair of hasps pivoted to said link and adapted to lie parallel at the front and rear of control devices, and means for joining and locking the free ends of said hasps.

1,382,170. AUTOMATIC BALANCED RUDDER FOR AIR, WATER, AND SUBMARINE CRAFT. FRANCISCO CONTI, Buenos Aires, Argentina. Filed Jan. 24, 1920. Serial No. 353,840. 5 Claims. (Cl. 114—167.)



1. In combination with a ship; of a ship's rudder; means for mounting the rudder on the ship to have a free rotary movement; a controlling rudder connected to the ship's rudder and having a swinging movement relative to the ship's rudder; steering mechanism on the ship; and gearing between the steering mechanism and the controller for swinging the controlling rudder whereby the latter may move the ship's rudder for steering the ship.

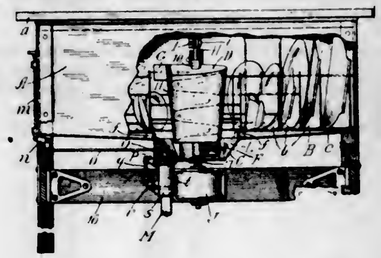
1,382,171. MACHINE FOR PRINTING TUBES. WILLIAM FREELAND CORSON, Toronto, Ontario, Canada. Filed Mar. 17, 1919. Serial No. 283,058. 5 Claims. (Cl. 101—269.)



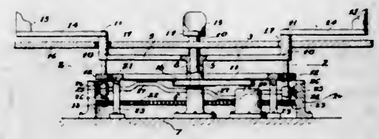
2. A tube printing machine, comprising, a frame, a carriage reciprocally mounted on said frame, a stationary printing surface, a frame pivotally mounted on said carriage, a mandrel mounted on said pivotal frame, means arranged on the main frame for engaging and rotating said mandrel through the reciprocal movement of the carriage, a handle member pivotally supported on the carriage independent of the mandrel frame, and means operatively connected with said handle member adapted on the movement of the carriage in one direction to lift the mandrel clear of the rotating means and the printing surface and upon the movement of the carriage in the opposite direction to allow said mandrel to coöperate with the rotating means.

1,382,172. DISH-WASHING MACHINE. JAMES W. CROOKS, Pelham, N. Y. Filed Sept. 18, 1919. Serial No. 324,282. 12 Claims. (Cl. 141—9.)

6. A dishwashing machine having, in combination, a dishholding tank and a rotary water-circulating elevator and distributer in said tank having a spiral water passage of increasing diameter from bottom to top with an intake at its bottom and an outlet at its upper end, said outlet being of greater area than the intake.

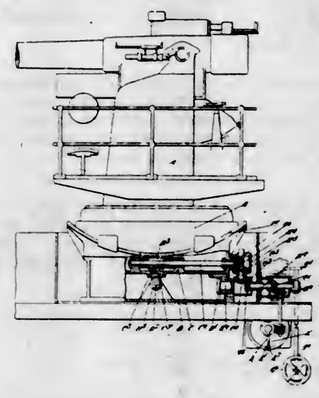


1,382,173. ROUNDABOUT. JOSEPH CZERWONKA, Chicago, Ill. Filed Apr. 24, 1920. Serial No. 376,323. 4 Claims. (Cl. 46—27.)



1. An amusement apparatus comprising a support, a rotatable member carried by a support, driving means for said member, rotatable shafts carried by said member, lateral arms carried by the shafts, passenger supports carried by the arms, pinions loose on the shafts, external and internal stationary annular racks with which the pinions respectively mesh, slidable clutch members on the shafts for establishing driving connections between the pinions and their shaft in alternation, and means for operating the clutch members.

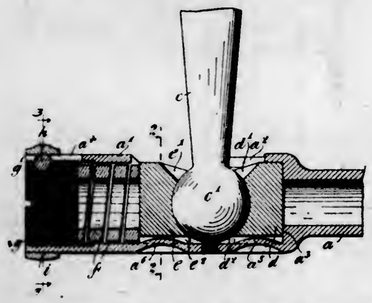
1,382,174. GUN-MOUNTING. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Mar. 25, 1920. Serial No. 368,739. 8 Claims. (Cl. 89—41.)



1. The combination with a gun mounting including training and elevating mechanism for use on ships, of a leveling device which supports the mounting as a whole, power operated means for operating said leveling device and gyroscopic means on the leveling device for controlling

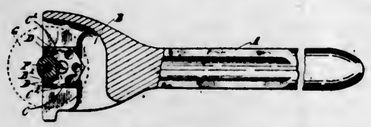
said power operated means whereby the training axis of the mounting is automatically maintained truly vertical notwithstanding the rolling, pitching and tossing of the ship.

1,382,175. DRAG-LINK. CASCIOUS H. DE LA MONTE, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 22, 1919. Serial No. 319,093. 1 Claim. (Cl. 287—90.)



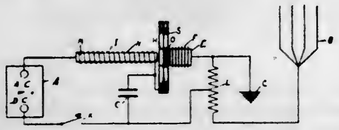
In combination, a drag link formed with a slotted tubular sleeve at one end, socket members slidably mounted in a sleeve, said members having channels, a steering arm having a ball formed at its end, the ball end adapted to rest between the socket members, said sleeve being formed with a shoulder at one end on which seats one of said socket members, a spring bearing against the other of said socket members, lugs struck inwardly in the metal of said sleeve to engage the channels in the socket members, a plug cap threaded in the end of the sleeve and forming a seat for said spring, said cap having a milled section, a split ring clamp encircling the slotted end of the sleeve, and a bolt passing through the clamp and engaging the milled section of the cap to hold it against rotation.

1,382,176. GRINDING-WHEEL DRESSER. JOSEPH DOBSON, Sheffield, England. Filed Nov. 22, 1919. Serial No. 340,014. 2 Claims. (Cl. 125—37.)



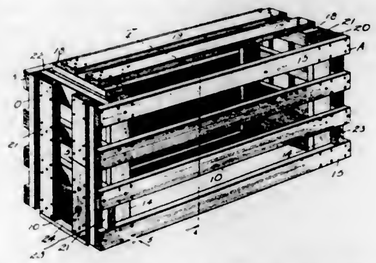
1. In a grinding wheel dresser, the combination of a holder, jaws to said holder, slots in said jaws, a pair of polygonal carriers detachably mounted in said slots, a plurality of bearing holes in said carriers, and a spindle mounted in two of said bearing holes.

1,382,177. RADIOSIGNALING APPARATUS. WILLIAM DUBILIER and PHILIP DUBILIER, New York, N. Y., assignors to Sperry Gyroscope Company, a Corporation of New York. Filed July 10, 1916. Serial No. 108,287. 7 Claims. (Cl. 250—37.)



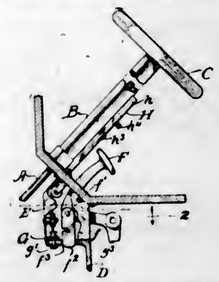
1. In a wireless telegraph apparatus, a primary current circuit containing an electro-magnetic inductive resistance, an oscillating current circuit containing a highly quenched oscillator and a radiating circuit, an electrode of the oscillator being movable and affected by the primary electromagnetic inductance, said electrode being made almost wholly of magnetic material, whereby the magnetic lines of force are brought into close proximity with the gap.

1,382,178. COLLAPSIBLE SHIPPING-CRATE. FRANK J. DULTMEIER, Manning, Iowa. Filed July 12, 1920. Serial No. 395,639. 6 Claims. (Cl. 217—15.)



1. In a collapsible crate, a bottom, a top and sides, each having longitudinal and cross members, the cross members of the sides being hinged to the cross members of the top and bottom, the longitudinal members of the sides being extended beyond the cross members thereof, the extending ends of the longitudinal side members being provided with receiving means, end gate members comprising upright members and cross members projecting beyond the upright members and adapted to have their ends received in said receiving means, said last-named cross members being spaced from each other, a locking member for each end member arranged to be received between the spaced cross members of the end member and to project between the longitudinal members of the sides.

1,382,179. LOCKING DEVICE FOR AUTOMOBILES. CHRISTOPHER W. DUNN, Milwaukee, Wis. Filed Dec. 26, 1919. Serial No. 347,403. 3 Claims. (Cl. 70—128.)



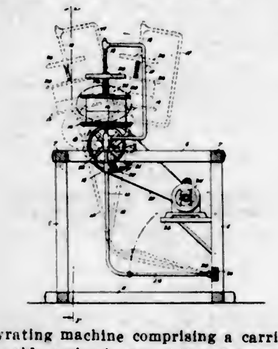
3. A locking means for automobiles, comprising a pedal, a notched link actuated therefrom and moving in a fixed path, a slide provided with a lug for engagement with the notch and movable transversely to the link, a lock for holding the link and slide in engagement, and means connecting the lock and the slide to actuate the latter into locking position when the pedal is depressed.

1,382,180. SOLE-TAP FOR BOOTS AND SHOES. ELIAS J. EMERY, Lynn, Mass. Filed Dec. 22, 1919. Serial No. 346,617. 4 Claims. (Cl. 36—29.)

1. A tap-sole for boots and shoes adapted for attachment to the under side of the sole, having a stiffly flexible body of substantially uniform thickness throughout comprising a peripheral portion sloping upwardly toward the edge, and having a depressed central portion joined to the peripheral portion by a sloping offset, the margin of the offset and the peripheral edge being adapted when attached, by reason of the flexibility of the structure, to bear against the sole and form a double seal against air trapped in the depressed central portion and compressed by the collapse into the concavity thereof of the depressed central portion upon treading pressure by the wearer.



1,382,181. GYRATING-MACHINE. JAMES H. EMERY, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,868. 15 Claims. (Cl. 74—14.)



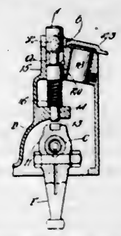
1. A gyrating machine comprising a carrier, means for revolving said carrier in an orbit and means for rotating said carrier on an axis making an angle other than a right angle with said orbit.

1,382,182. RAILWAY-TIE AND RAIL-FASTENER. CHARLES ELSWORTH ESTABROOK, Springport, Ind. Filed Aug. 6, 1920. Serial No. 401,710. 5 Claims. (Cl. 238—111.)



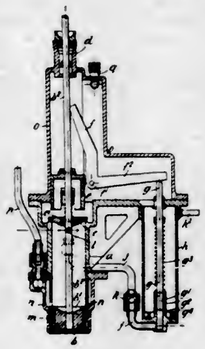
1. A railway tie comprising, anchor members, rail securing means carried by each of the members, a connecting rod extending through said members and connecting the same, keys of different sizes insertible through said connecting rod and engaging said anchor member, and means for locking said keys within said connecting rod.

1,382,183. TRANSMISSION-LOCK. STEPHEN I. FEKETE, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1920. Serial No. 393,683. 4 Claims. (Cl. 70—131.)



1. The improved transmission locking device comprising a lock, a locking pin, a socket on a movable part of the transmission to coöperate with the pin, and a cover for the lock, said locking device having provision for holding said cover against movement to uncover said lock when said pin is out of engagement with said socket.

1,382,184. PUMP FOR EXHAUSTING AIR AND GASES. HENRY ALBERT FLEUSS, Thatcham, England, assignor to The Pulsometer Engineering Company, Limited, Reading, England. Filed Jan. 4, 1919. Serial No. 269,693. 9 Claims. (Cl. 230—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In combination a cylinder, a piston in the cylinder, a cylinder cover forming an outlet valve of the cylinder, the top of the piston being shaped to correspond with the underside of the cylinder cover, an inlet port in the cylinder, a ram for supplying oil to the cylinder, means for actuating the ram, a casing inclosing the ram and the ram actuating mechanism, and means for exhausting air from the casing.

1,382,185. FIRE-ALARM. STANLEY GERON, Yorkville, N. Y. Filed Apr. 17, 1920. Serial No. 374,590. 4 Claims. (Cl. 200—142.)

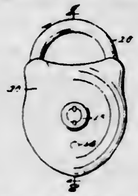


1. A device of the class described comprising, a fusible member adapted to close the upper end of a pipe connected to a source of water supply, a cap having a nozzle orifice adapted to hold said fusible member in position closing said pipe, a head adapted to be supported above said cap, a pair of normally spaced contact members on said head, adapted to close an alarm circuit when impinged upon by the water discharged from the said nozzle orifice.

1,382,186. LOCK-CASING. ELMER G. GODSHALK, Blackwell, Okla. Filed June 25, 1920. Serial No. 391,654. 6 Claims. (Cl. 70—16.)

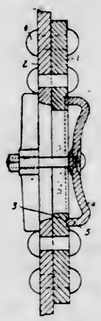
1. A lock casing comprising curved members having welded joints, rivets extending through the said sections and having their outer surfaces shaped to the contour of

the outer surfaces of the sections of the casing, and having their ends welded into the casing, a key barrel bushing



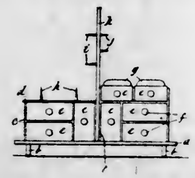
extending through the said sections, the said casing and its welded seams, welded rivets, key barrel bushing and shackle being hardened as and for the purpose described.

1,382,187. MANHOLE-FITTING. JOHN GRAY, Newcastle-upon-Tyne, England, assignor to R. & W. Hawthorn, Leslie & Company, Limited, Newcastle-upon-Tyne, England. Filed June 11, 1919. Serial No. 303,358. 1 Claim. (Cl. 220—25.)



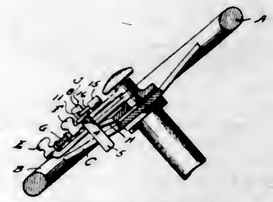
In a manhole fitting, the combination with a shell having a manhole, of a compensating plate riveted to the interior of said shell, said plate formed with a hole opposite said manhole of smaller are than said manhole, said plate having in its interior face a groove bounding said hole, and a door having an overturned marginal flange engaging said groove and forming a joint therewith, the area defined by the inner edge of said flange being no greater than the area of said manhole.

1,382,188. WORKBOX FOR DOMESTIC USE. RACHEL KELSALL, Wimbledon Park Road, England. Filed Aug. 21, 1919. Serial No. 319,022. 1 Claim. (Cl. 223—53.)



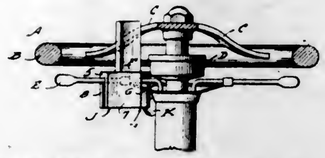
A work box having in combination a platform supported by feet, said platform supporting a chest or framework fitted with drawers slidable in or out of said chest or framework, a second platform provided with a number of spikes for supporting reels of cotton, a vertically extending board provided with spikes for supporting sewing implements, the first mentioned platform having a socket member for removably receiving said board, a body cover having loosely attached hooks to be detachably received by corresponding eye-pieces fastened to the first mentioned platform, said body cover having a top cover provided with buttons adapted to serve as supporting means for said top cover and loosely pivoted handles attached to said body cover.

1,382,189. LOCKING DEVICE FOR MOTOR-VEHICLES. ROBERT E. HARRIS, El Paso, Tex. Filed Oct. 14, 1920. Serial No. 416,984. 10 Claims. (Cl. 70—126.)



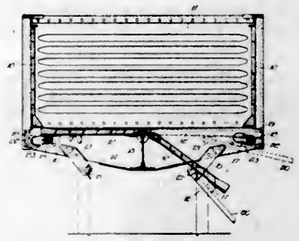
1. In combination with a motor vehicle steering wheel including spokes and a control device for the motor including a lever and quadrant; a locking device including means for holding said lever in fixed relation to its quadrant and a projection between the spokes of said steering wheel to permit only limited circumferential movement of said wheel.

1,382,190. LOCKING DEVICE FOR MOTOR-VEHICLES. ROBERT E. HARRIS, El Paso, Tex. Filed Oct. 14, 1920. Serial No. 416,986. 6 Claims. (Cl. 70—126.)



1. A locking device for motor vehicles comprising in combination a body including an intermediate portion, a projection at one side of said intermediate portion and three fingers in grouped spaced relation extending from the other side of said intermediate portion providing two converging ways open at one end of the body, one of said fingers having a transverse notch intermediate its ends and one of said fingers confronting said last mentioned finger having a transverse aperture alined with said notch, and a padlock including a shackle adapted to be trained through said aperture and engage in said notch in its movement said shackle traversing the way between said confronting fingers.

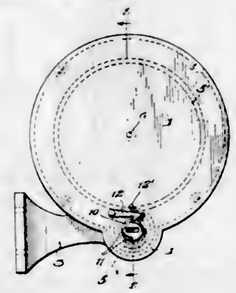
1,382,191. GENERAL-SERVICE CAR. DAVID HINDAHL, Chicago, Ill., assignor to National Dump Car Co., Chicago, Ill., a Corporation of Maine. Filed Nov. 10, 1919. Serial No. 337,002. 12 Claims. (Cl. 105—309.)



1. In a general service car having a door, a shaft, and hand operated means carried by said door for engaging said shaft for supporting the door in a given position.

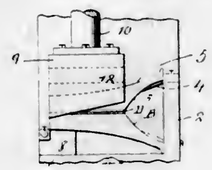
1,382,192. CURTAIN-ROLLER-OPERATING DEVICE. CHRISTOPHER J. HOGAN, Newport, R. I. Filed Sept. 7, 1920. Serial No. 408,481. 1 Claim. (Cl. 156—36.)

In a curtain roller operating device, a casing of cylindrical form having a radial pocket-extension formed on its periphery, said pockets formed with a small bearing in its cover and an axially alined larger bearing in the opposing wall and said casing being formed with axial shaft bearings, a shaft journaled in the latter bearings, a coiled spring mounted in the casing on the shaft for driving the same, a large gear fixed on the shaft, a second shaft journaled in the pocket and having one end portion terminating in an enlarged cylindrical part journaled in the larger pocket bearing and projecting there-



through, said projecting enlargement being of uniform diameter throughout whereby it may be inserted from within the casing through said larger bearing and having peripheral ratchet teeth and an axial socket in its end to receive an end of a shade rod, said second shaft being formed with a peripheral flange contiguous to the inner end of the said cylindrical enlargement abutting the inner wall of the pocket to prevent displacement of the shaft, a gear fixed on the second shaft in mesh with the large gear, and a pawl fixed on the casing for engaging the ratchet teeth.

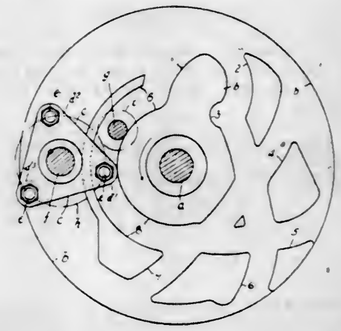
1,382,193. MACHINE FOR CUTTING OFF FINS FROM ELECTRICALLY-WELDED WORK. HENRY S. HOLMES, Brooklyn, N. Y. Filed Aug. 4, 1920. Serial No. 401,165. 2 Claims. (Cl. 164—47.)



1. A shearing machine for removing fins from opposite sides of an electrically welded object, comprising a vertical support, a horizontal mandrel secured thereto at one end and adapted to enter and carry said object, a vertically movable head above said mandrel, and, on said head, two vertical shearing blades respectively disposed to receive between them said object and on descending to cut off said fins therefrom.

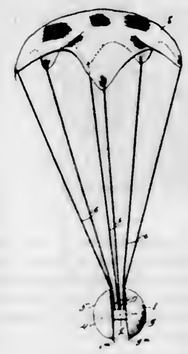
1,382,194. COMBING-MACHINE. JAMES HORRIDGE, Bolton, England, assignor of one-half to John Hetherington and Sons Limited, Manchester, England. Filed Jan. 28, 1920. Serial No. 354,675. 3 Claims. (Cl. 19—6.)

1. In a combing machine, the combination of a combing cylinder, a detaching roller, an intermediate shaft between said cylinder and roller, gearing between said shaft and roller, a member secured to said shaft for rotation therewith and having a plurality of arms, and a hollow cam member carried by said cylinder for rotation therewith and provided with cams disposed in the path of said arms



thereby to impart to said shaft a predetermined sequence of rotation in opposite directions during the rotation of the cylinder in one direction.

1,382,195. AERIAL TOY. EARL W. HOWE, Washington, D. C. Filed Oct. 29, 1920. Serial No. 420,303. 5 Claims. (Cl. 244—21.)



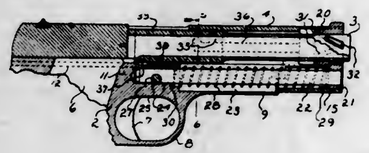
5. An aerial toy comprising a spool having a centrally reduced portion, one side of the spool being detachably connected to one end of the reduced portion, a parachute connected to the reduced portion, said parachute being adapted to be wound around the reduced portion, thereby allowing the spool with the collapsed parachute to be projected in the air, unwound and the toy as a whole be allowed to return to the ground under the control of the parachute.

1,382,196. AZODYESTUFFS DYEING ON MORDANTS. CARL JAGERSPACHER, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed May 14, 1919. Serial No. 297,095. 2 Claims. (Cl. 8—1.)

1. As new products the herein described azodyestuffs dyeing on mordants, derived from aromatic orthoöxydiazocompounds and a monoalphaoxynaphthalenesulfocarboxylic acid, which combines with diazocompounds in the ortho position relatively to the hydroxyl group, without splitting off the carboxyl group, which constitute in a dry state dark powders dissolving in water and in concentrated sulfuric acid with red to violet colorations, dye

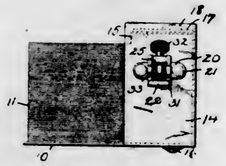
wool in an acid bath red to brown tints becoming on subsequent chroming, red to violet fast to fulling and to potting and produce, when printed on cotton with chromium mordants, red to violet tints fast to soaping, chlorin and light.

1,382,197. FIREARM. CHARLES J. JOLIDON, Hartford, Conn. Filed July 16, 1917, Serial No. 180,705. Renewed Nov. 23, 1920. Serial No. 426,107. 17 Claims. (Cl. 42—4.)



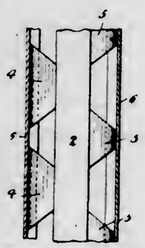
3. A firearm comprising a frame, a retractable and advanceable breech block on said frame, a barrel coöperative with the breech block, means for effecting the movement of the barrel with the breech block on retractive and advancing movements thereof, a rod detachably connected with the frame, and means associated with said rod for turning said barrel at predetermined points in said retractive and advancing movements to first release it from and then unite it with said breech block.

1,382,198. SALES-CHECK HOLDER. RICHARD J. KRAUTHEIM, Newark, N. J. Filed Mar. 6, 1920. Serial No. 363,747. 4 Claims. (Cl. 164—119.)



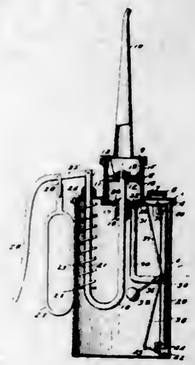
1. A check punch having means on one end for receiving a check to be punched, and a handle secured to the other end, said handle being box-like and adapted to be held in the hollow of the hand while the fingers thereof operate the punch, the handle having an open side at right angles to the punch.

1,382,199. METAL POLE, GIRDER, OR BEAM. MAURICE LACHMAN, New York, N. Y. Filed Apr. 22, 1920. Serial No. 375,656. 5 Claims. (Cl. 189—38.)



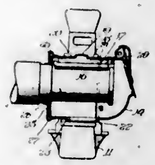
1. A metal pole or beam comprising a rolled section having flanged edges, the web of said section being divided into a plurality of portions bent alternately in opposite directions out of the normal plane of the web and members tying the projecting edges of said portions together.

1,382,200. DISPENSING-CAN. FRANK J. LACINA, Clarkson, Nebr. Filed Mar. 25, 1920. Serial No. 368,489. 9 Claims. (Cl. 221—51.)



1. A device of the character described, comprising a body portion, a top upon the body portion, a cylinder in the top, a nozzle for the cylinder, a valved piston adapted to reciprocate in the cylinder, a U-shaped rod carrying the piston upon one of its arms, a pump handle pivotally connected to the other arm of the U-shaped rod, a vertically arranged pipe within the body portion, a lever pivoted approximately midway of the length of the pipe and having a weight upon one end, links connected to the opposite end of the lever and extending to the ends of the pipe, valve arms connected to the links, valves upon the valve arms adapted to be alternately seated upon the ends of the pipe, and a pipe connecting the first named pipe with the bottom of the cylinder and valved at its latter end.

1,382,201. TRUCK SIDE FRAME AND JOURNAL-BOX. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 4, 1919, Serial No. 315,125. Divided and this application filed Aug. 21, 1920. Serial No. 405,038. 5 Claims. (Cl. 105—220.)

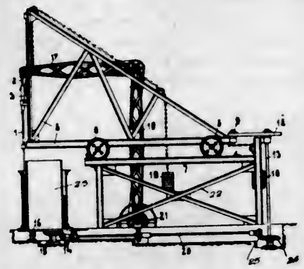


5. In combination, a truck side frame having a receiving portion for a journal box, and a journal box mounted in said receiving portion and having an annular rib and a longitudinally extending rib for positioning said box in said side frame.

1,382,202. MACHINE FOR MAKING CONCRETE PIPES OR THE LIKE. RIJKENT LAST, Enkhuizen, Netherlands. Filed Jan. 30, 1920. Serial No. 355,218. 4 Claims. (Cl. 25—37.)

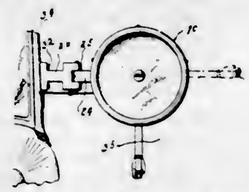
4. A machine for making concrete pipes comprising a rotatable non-circular mold, a rammer reciprocated by means of a crank and guided between blocks carried by a frame mounted upon wheels and movable horizontally, a roller on said frame at the side remote from the rammer and maintained constantly in contact with a cam of the same shape as the mold of the pipe to be rammed but smaller by half the thickness of the wall of said pipe, a

shaft carrying said cam and driven by bevel wheels from a second shaft rotated from the main shaft by a worm and worm wheel, and a bevel wheel on said second shaft



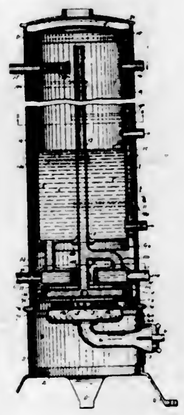
gearing with a gear wheel on the shaft of a table carrying said mold, the ratio of the gear wheels being such that said cam rotates at the same speed and in the same direction as said mold-table.

1,382,203. VEHICLE-LIGHT. NEAL LAWSON, Santa Barbara, Calif. Filed Nov. 3, 1920. Serial No. 421,563. 8 Claims. (Cl. 116—49.)



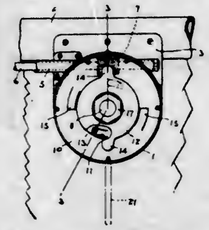
1. The combination with a support having illuminating means, of an indicator arm pivotally carried by the support in rear of the illuminating means thereon, illuminating means housed in the outer portion of said indicator arm, means for operating said indicator arm, and a shield secured to the support and extending rearwardly therefrom over the indicator arm.

1,382,204. STEAM-GENERATOR. CHARLES H. LEWIS, Syracuse, N. Y. Filed June 28, 1920. Serial No. 392,356. 9 Claims. (Cl. 122—18.)



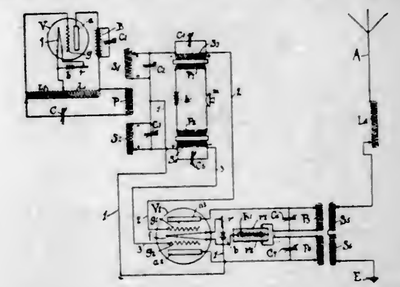
1. In a steam generator, a boiler, a drum disposed beneath and supplying water to the boiler, a steam-pipe disposed centrally in the boiler and connected with said drum, the lower end of said pipe extending below said drum and supporting a preheating member which receives water from said drum and discharges steam through said pipe into the top portion of the boiler, and an adjustable burner disposed beneath said member.

1,382,205. WINDSHIELD-CLEANER. JAMES T. LEWIS, Toronto, Ontario, Canada. Filed May 17, 1920. Serial No. 381,884. 6 Claims. (Cl. 15—59.)



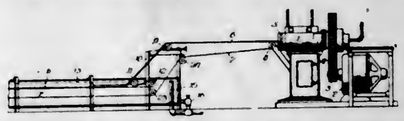
1. A windshield cleaner, comprising, a pivotal cleaning arm, mechanical means for swinging said arm on its pivot in one direction, means for disengaging said arm from said operating means, and spring means for moving the arm in the reverse direction.

1,382,206. TRANSMITTING APPARATUS. DAVID G. MCCAA, Lancaster, Pa., assignor of one-half to Cornelius D. Ebret, Mount Airy, Philadelphia, Pa. Filed Jan. 19, 1920. Serial No. 352,465. 9 Claims. (Cl. 179—171.)



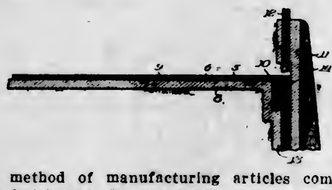
1. The combination with a source of oscillations of high frequency, a primary traversed thereby, secondaries similarly inductively affected by said primary, thermionic devices comprising grid and anode circuits, said grids similarly affected by said secondaries whereby the oscillations in the anode circuits are substantially equal, means in series with said secondaries controlled by sound waves for affecting said grids in opposite senses, a transmitting conductor, and a differential coupling between said conductor and said anode circuits, whereby only when sound waves are present high frequency energy appears in said conductor.

1,382,207. RUBBER EXTRUDING, COOLING, AND CUTTING APPARATUS. LEE R. MCGUIRE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 11, 1919. Serial No. 337,281. 10 Claims. (Cl. 18—2.)



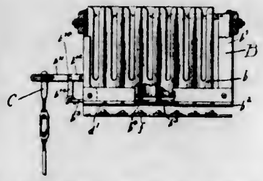
1. An apparatus for the preparation of rubber comprising a forming machine in which the rubber is formed in a strip, a tank, means for supplying the tank with water, and a conveyer for supporting and conducting the rubber strip through the tank.

1,382,208. METHOD FOR MAKING ARTICLES OF FABRIC AND RUBBER. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 279,025. 7 Claims. (Cl. 154—2.)



1. A method of manufacturing articles composed of strips of fabric and vulcanizable material, the fabric strips being disposed at right angles to the plane of the articles, the steps of assembling these strips and causing them to adhere by cutting into strips a fabric layer coated with a skim of rubber, and stacking the cut strips under pressure perpendicularly with respect to the original fabric layer.

1,382,209. COMBINED CAKE AND FILLER FEEDER. GUSTAVE A. MEIER, Norwood, and CLAUDE J. WICHER, Cincinnati, Ohio, assignors to The George H. Striet-mann's Sons Co., Cincinnati, Ohio, a Corporation of Ohio. Filed May 5, 1920. Serial No. 379,152. 7 Claims. (Cl. 107—1.)



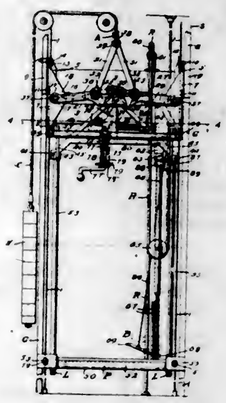
1. In a cake feeding device the combination of a conveyer adapted to feed a series of rows of cakes, each carrying a deposit of filler, a series of tubes adapted to hold cakes, a fixed bottom plate having perforations in longitudinal alinement with rows of cakes upon the conveyer, means for feeding cakes from the tubes to the perforations in the bottom plate, and a pressure plate mounted adjacent to the bottom plate and having a series of perforations in longitudinal alinement with the rows of cakes and of a diameter substantially equal to that of each deposit.

1,382,210. INCLOSED SWITCH. SAMUEL A. MEYERS and CHARLES PARKER, San Francisco, Calif. Filed Nov. 20, 1917. Serial No. 202,935. 5 Claims. (Cl. 200—50.)



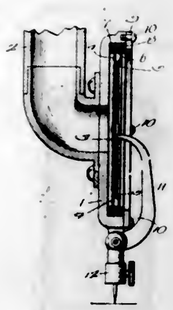
1. An inclosed switch comprising an inclosing casing, a front hinged to the casing carrying knife blades for closing the switch contacts, a spring operated member to push the front of the casing open when the current is not on, and means without the casing to lock said front in position when the current is on.

1,382,211. MANLIFT. CHARLES H. MILLER, Liberty township, Jefferson county, Iowa. Filed July 21, 1920. Serial No. 397,830. 41 Claims. (Cl. 187—15.)



1. In a manlift, the combination with a car including a head and a carriage traveling on the shaft guides; of a weight substantially counterbalancing the car and a passenger, brake mechanism in the head coacting with said guides, connections between it and the weight for applying the brakes when the carriage has no passenger, and connections between said mechanism and the carriage whereby the weight of the passenger releases the brakes.

1,382,212. PHONOGRAPH-TRANSMITTER. GREGG K. MILLS, Chicago, Ill. Filed May 28, 1919. Serial No. 300,456. 7 Claims. (Cl. 181—32.)

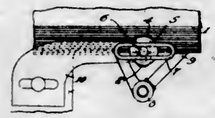


1. A transmitter for phonographs including a transmitter casing and a vibrant diaphragm carried by the casing, said diaphragm having two vibrant spaced apart rims, one of greater radial length than the other.

1,382,213. DEVICE FOR TAKING SHEETS FROM A STACK OF PAPER OR THE LIKE. WALTER EVERETT MOLINS, London, England. Filed Feb. 2, 1921. Serial No. 441,897. 3 Claims. (Cl. 271—29.)

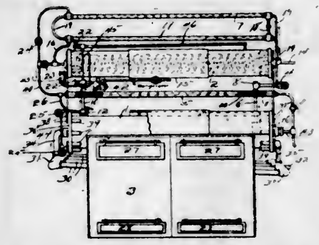
1. An oscillating device for taking sheets of paper or the like from a stack, characterized by the fact that the pivot on which the device oscillates is connected with a support

located beneath the stack of paper and is mounted in such a manner that the upper edge of the support is arranged



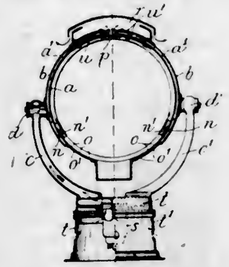
approximately in line with the axis of the pivot for the device, this pivot being arranged in an adjustably mounted holder.

1,382,214. REFRIGERATING APPARATUS. HARRISON E. MOORE, Fort Worth, Tex., assignor to Simplex Ice Machine Company, Fort Worth, Tex., a Corporation of Arizona. Filed May 17, 1919. Serial No. 297,781. 11 Claims. (Cl. 62—118.)



1. An ice machine comprising a distillation cylinder, a storage and compression cylinder above and close to said distillation cylinder for containing a supply of ammonia, condensing apparatus including pipes having extended portions connected to said distillation cylinder at both ends for conveying vapor of ammonia to said storage cylinder and condensed water back to the distillation cylinder, and a cold water supply connected to said extended portions of said pipes.

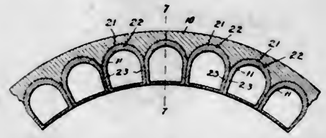
1,382,215. ELECTRICAL SEARCHLIGHT AND OTHER PROJECTOR. WILLIAM MORRIS MORDEY, Westminster, England, assignor to himself and Gwylim Anwyl Hughes, Croydon, England. Filed June 2, 1920. Serial No. 386,031. 8 Claims. (Cl. 240—41.)



8. In an electrical light projector embodying a casing, a mirror reflector and connected cooling jackets for said casing and mirror, a hollow base, a fan therein and hollow means supporting the jacket from and placing the interior of the jacket in communication with the base whereby air under pressure will be delivered into and through the jackets.

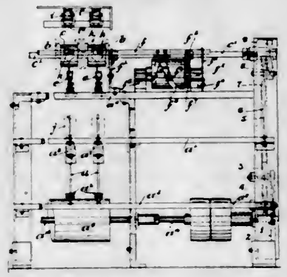
1,382,216. PNEUMATIC TIRE. AMOS F. MOREY, Oklahoma, Okla. Filed Sept. 11, 1918. Serial No. 253,504. 1 Claim. (Cl. 152—22.)

A tire construction, comprising a series of hollow members adapted to hold air under pressure and arranged in annular formation, the top portion of said members being of globular form and the bases of said members being of flat form, the side walls of said members contacting when arranged in tire form, whereby to prevent movement of the members when mounted on a vehicle wheel, and an



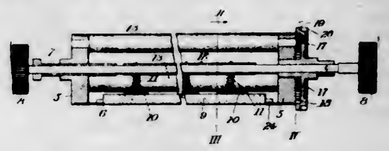
outer casing completely enveloping the top and sides of said hollow members, the inner face of said casing being provided with a plurality of depressions adapted to register with an engage the globular top portions of said hollow members, whereby to prevent accidental displacement of said members when arranged in tire formation.

1,382,217. DOUBLING, TWISTING, AND WINDING, AND LIKE FRAME. JAMES WILLIAM MORRISON and THOMAS WILLIAM HOLT, Staleybridge, England. Filed Oct. 4, 1919. Serial No. 328,481. 6 Claims. (Cl. 242—43.)



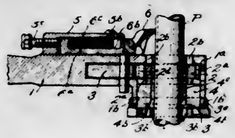
1. In a machine of the class described, a spindle mounted for rotation, a package carrier carried by said spindle for rotation therewith, a friction drum, means for traversing the yarn over said friction drum, a pivotally supported loading frame having means for removably supporting a bobbin in juxtaposition to said drum, means for swinging said frame on its pivot in one direction, and comprising a bar, a guide bracket for the bar, a loaded lever fulcrumed in said bracket, and a nose on said lever acting on said bar whereby said bar and connected frame are constantly and uniformly loaded.

1,382,218. NOISE-REDUCING TYPEWRITER-PLATEN. WILLIAM REDFORD MULOCK, Winnipeg, Manitoba, Canada. Filed Dec. 15, 1920. Serial No. 431,014. 8 Claims. (Cl. 197—147.)



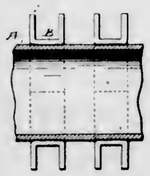
1. In a typewriter platen frame, the combination with a cushioned striking or platen strip secured against rotation, of a plurality of paper-feeding rollers mounted within said platen frame and arranged at intervals around its periphery for moving a sheet of paper across said striking or platen strip, and means for simultaneously actuating said rollers.

1,382,219. CUTTING-TOOL. FREDERICK MUNGER, Ellsworth, Nebr., assignor of one-half to C. Von Woehrman, Hill City, S. D. Filed June 1, 1920. Serial No. 385,649. 9 Claims. (Cl. 81—191.)



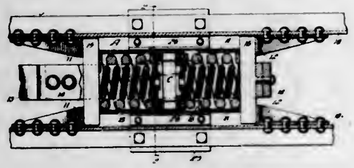
1. A machine for the purpose specified; having a handle, a cylindric head, a removable cap on one end of the head, a tool on the handle, a ring fitted in said head, and a bushing extending axially of the ring, substantially as described.

1,382,220. CIRCULATION-TUBE FOR WATER-TUBE STEAM-BOILERS. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Feb. 4, 1920. Serial No. 356,347. 2 Claims. (Cl. 257—262.)



1. A circulation tube for water tube steam boilers, having on its periphery a plurality of rings; each ring having at both of its edges an outwardly turned flange formed by striking up the metal of the ring.

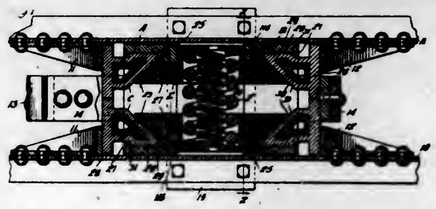
1,382,221. TANDEM DRAFT-GEAR FOR RAILWAY-CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 11, 1919. Serial No. 303,498. Renewed May 2, 1921. Serial No. 466,219. 4 Claims. (Cl. 213—42.)



1. In a tandem shock absorbing mechanism, the combination with two alined and relatively movable casings, of tandem arranged shock absorbing units within said casings, and a pair of centrally disposed detachable followers interposed between the shock absorbing units, each of said followers being engaged by one of the casings and slidable within the other casing, each casing being slotted at its inner end to accommodate one of said followers.

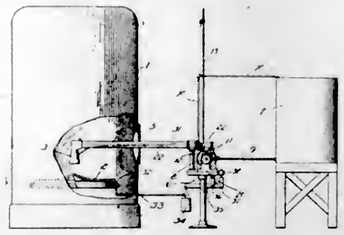
1,382,222. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Apr. 26, 1920. Serial No. 376,494. Renewed May 2, 1921. Serial No. 466,220. 4 Claims. (Cl. 213—64.)

1. In a friction shock absorbing mechanism, the combination with end sets of separate wedge-shoes; of laterally movable friction shoes having end wedge surfaces cooperable with said wedge-shoes; spring means interposed between said laterally movable shoes; and a friction shell at each end of the mechanism with which said wedge-



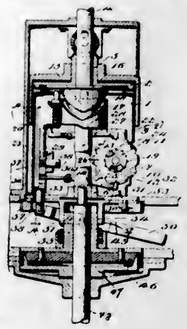
shoes coöperate, said laterally movable friction shoes and shells having coöperating friction surfaces extending transversely of the axis of the mechanism.

1,382,223. OIL-BURNING APPARATUS AND METHOD. WILLIAM H. PASCOE, Chicago, Ill. Filed Feb. 25, 1921. Serial No. 447,792. 21 Claims. (Cl. 158—36.)



1. A liquid fuel heating apparatus adapted to be permanently associated with a furnace and comprising means located outside of the furnace for automatically mixing liquid fuel and air, means located within the furnace for burning the fuel mixture, and a conduit of substantial length carrying the fuel mixture from the mixing means to the burner, said conduit being of sufficient length to substantially prevent the radiation or conduction of heat from the burner to the mixing means.

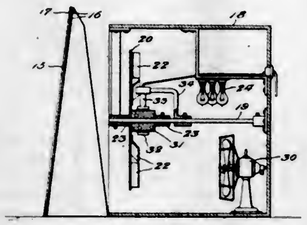
1,382,224. LOCKING MECHANISM FOR NUMERAL-WHEELS, &c. ARTHUR H. PITNEY, Stamford, Conn., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn., a Corporation of Delaware. Continuation of application Serial No. 335,057, filed Nov. 1, 1919. This application filed Aug. 24, 1920. Serial No. 405,634. 21 Claims. (Cl. 101—91.)



1. In registering mechanism of the character described, a plurality of numeral wheels each having a notched por-

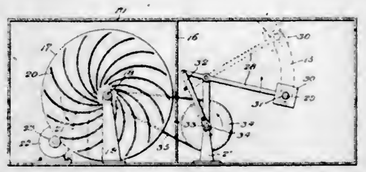
tion; mechanism for operating the wheels; and a member having means normally and continually in contact with one or more of said wheels and arranged to successively engage the notches therein as the wheels arrive at some predetermined position, whereby said wheels are locked one at a time in such position against further operation by said operating mechanism.

1,382,225. SIGN. GEORGE R. PYPER, Salt Lake City, Utah. Filed Nov. 21, 1919. Serial No. 339,070. 2 Claims. (Cl. 40—133.)



2. An illumined sign embodying a member having light transmitting portions, a source of light spaced from said member, a rotatable member interposed between the first mentioned member and the source of light for alternately cutting off and permitting the light's rays to reach the said first mentioned member, laterally extending radially disposed vanes carried by the rotatable member, and means for supplying a current of air to the said rotatable member to operate the same.

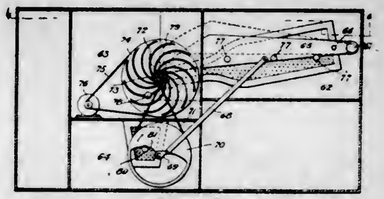
1,382,226. SIGN. GEORGE R. PYPER, Salt Lake City, Utah. Filed Mar. 12, 1920. Serial No. 365,357. 5 Claims. (Cl. 40—133.)



1. In a picture having an animated portion, the combination with a stationary screen plate having the subject depicted on the front thereof with an animated portion outlined by relatively small and closely spaced perforations therethrough, of a stationary source of illumination back of the plate tending to throw light simultaneously through all of said perforations, a movable screen member interposed between the stationary screen plate and the source of illumination and designed systematically to interrupt the passage of light through the perforations and thereby produce the appearance of movement in the animated portion, and means for automatically moving the screen member.

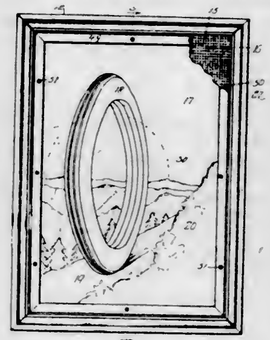
1,382,227. SIGN. GEORGE R. PYPER, Salt Lake City, Utah. Filed Mar. 12, 1920. Serial No. 365,358. 5 Claims. (Cl. 40—133.)

1. In an animated sign, the combination with a generally opaque screen plate having a receptacle outlined thereon by artificial illumination and series of relatively small, closely spaced light transmitting portions in the screen plate within the outlined receptacle and simulating when illuminated its contents, of a source of artificial illumination back of the light transmitting portions, a shutter mounted to move between the source of illumina-



tion and the light transmitting portions, and means for moving the shutter so as apparently to vary the contents of the outlined receptacle.

1,382,228. ANIMATED SIGN. GEORGE R. PYPER, Salt Lake City, Utah, assignor to Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Filed June 30, 1920. Serial No. 392,954. 5 Claims. (Cl. 40—133.)



5. In an animated sign, the combination with a frame, of a plate supported in the front thereof and having relatively small, closely spaced perforations therein, a poster sheet securely held in front of the same, a light back of the perforated plate adapted to throw rays through all the perforations, an animating member between the light and the plate, a layer of opaque material corresponding to so much of the poster as is not to be animated interposed between it and the animating member, and means for moving the animating member.

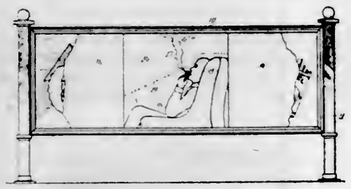
1,382,229. ANIMATED SIGN. GEORGE R. PYPER, Salt Lake City, Utah, assignor to Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Filed June 30, 1920. Serial No. 392,955. 6 Claims. (Cl. 40—133.)



1. In an animated sign, the combination with a screen member having the animated portion thereof outlined by

perforations therein, of a light back of the screen member, an animating member movable between the light and the screen member, said animating member containing a plurality of irregularly shaped apertures therein of different designs elongated substantially at right angles to the line of movement thereof, and means for moving the animating member steadily to produce an apparently irregular movement of the animated portion due to the irregular shape of the apertures.

1,382,230. ANIMATED SIGN. GEORGE R. PYPER, Salt Lake City, Utah, assignor to Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Filed July 2, 1920. Serial No. 393,541. 5 Claims. (Cl. 40—133.)



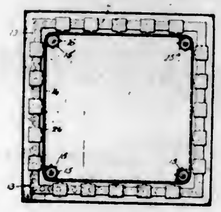
1. In a sign, the combination with a screen plate perforated to outline matter to be animated, of a flexible poster sheet covering the front of the screen plate and the perforations therein and carrying any desired display matter different from the matter to be animated, said posted sheet over the perforations being translucent, a light to the rear of the screen plate, a member movable between the light and the screen plate to animate the matter outlined, and means to move the member.

1,382,231. ANIMATED SIGN. GEORGE R. PYPER, Salt Lake City, Utah, assignor to Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Filed Sept. 10, 1920. Serial No. 409,391. 5 Claims. (Cl. 40—133.)



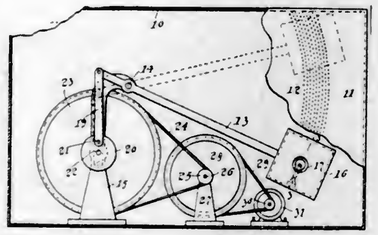
1. In a display apparatus, the combination with a screen plate having light transmitting portions to outline a design, of a source of light back of the screen plate, a plurality of shutters mounted between the screen plate and the light and capable of standing at an angle that does not interfere with the passage of the light through the light transmitting portions and also at an angle that does, and automatic means for moving the shutters at determined intervals from one angle to the other and back again.

1,382,232. ANIMATED SIGN. GEORGE R. PYPER, Salt Lake City, Utah, assignor to Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Filed Sept. 10, 1920. Serial No. 409,392. 6 Claims. (Cl. 40—133.)



1. In an animated sign, the combination with a generally opaque plate having a portion to be animated outlined by a series of consecutive portions adapted to transmit light, of an endless member movable adjacent said consecutive portions and in a path corresponding to the outline formed by them, a source of illumination back of the screen plate, a shutter carried by the endless member between the source of illumination and the consecutive portions for the purpose described, and means for moving said endless member.

1,382,233. ANIMATED SIGN. GEORGE R. PYPER, Salt Lake City, Utah, assignor to Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Original application filed Mar. 12, 1920, Serial No. 365,358. Divided and this application filed Sept. 27, 1920. Serial No. 413,177. 3 Claims. (Cl. 40—133.)

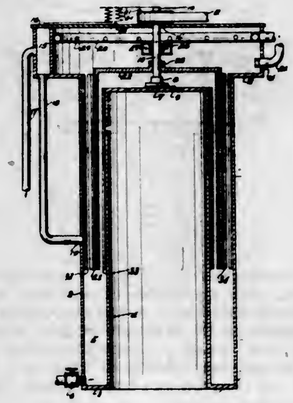


1. In an animated sign, the combination with a stationary screen plate having a portion thereof containing small, closely spaced perforations therein, of a stencil member mounted to move back of the perforations and having the animated object stenciled therein, means for moving the stencil member, and a light back of the stencil member so that the rays therefrom pass through the stencil and form a moving object outlined on the field of perforations through successive groups of which the outlined object is visible as it appears to move.

1,382,234. DEHYDRATOR FOR PETROLEUM-OILS. HENRY R. QUINBY, Maricopa, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Feb. 25, 1920. Serial No. 361,351. 8 Claims. (Cl. 204—5.)

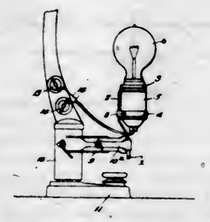
5. An apparatus for dehydrating oils, comprising an electrode formed of a pair of concentric metallic walls forming therebetween an annular space into and through

which the oil to be treated is passed; a cylindrical electrode arranged intermediately in the annular space; means



for relatively moving the electrode members; and means for maintaining a head of oil above the electrodes.

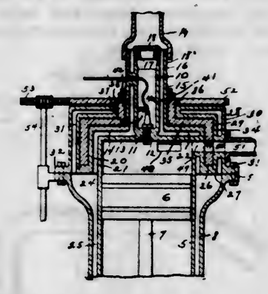
1,382,235. HOLDER FOR INCANDESCENT LIGHTS. WILLIAM ARTHUR RAYMOND, South Bend, Wash. Filed July 2, 1920. Serial No. 393,633. 1 Claim. (Cl. 240—37.)



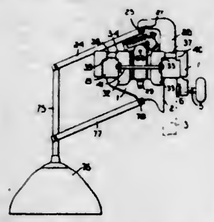
An attachment of the character specified, comprising a bracket consisting of a plate twisted intermediate its ends to cause the wide dimension of its ends to extend at approximately right angles, one of said ends being adapted for engagement by the holding clamp of a lamp column, the other end carrying a pair of split rings spaced apart longitudinally of the said end and adapted to engage about the socket of an incandescent bulb, one of the ends of the lower ring having a tongue and the other a slot for engagement by the tongue to clamp the ring on the socket.

1,382,236. INTERNAL-COMBUSTION ENGINE. CLARENCE E. REES, San Diego, Calif. Filed Apr. 21, 1920. Serial No. 375,519. 1 Claim. (Cl. 123—177.)

A device of the character described comprising a cylinder having a head proper and a water jacket comprising a substantially horizontal wall overlying the top of the cylinder, a vertical wall extending downwardly along side the cylinder and an out turned ledge at the bottom of the vertical wall, a water jacket for the cylinder having an outwardly flaring upper portion, a valve casing having spaced walls the outer of which makes water tight contact with the outwardly flaring portion of the water jacket of the cylinder and the inner of which makes water tight contact with said ledge a rotative valve lying between and contacting with the valve casing and the water jacket of the cylinder head, a vertical tubular extension from the water jacket of the cylinder head, a vertical extension carried by the valve, anti-friction bearings between said vertical extensions, a driving element upon the vertical extension of the valve, a vertical tubular extension from the cylinder head which lies inside of the vertical tubular extension from the water-jacket of the cylinder head leaving an annular space between them, a closure for the top of the tubular extension of the cylinder head, a water conduit leading from the tubular extension of the water-jacket and a spark plug at the base of the tubular extension of the cylinder head which projects into the cylinder.

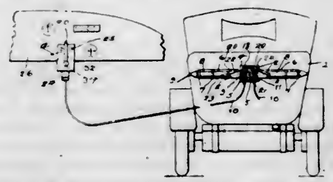


1,382,237. WATER-MOTOR. EMILE C. REUTLINGER, Boston, Mass. Filed June 11, 1919. Serial No. 303,297. 10 Claims. (Cl. 121—164.)



1. A fluid motor comprising a base having means adapted to be secured to a support and bosses integral therewith spaced apart and provided with alined cylindrical apertures, cylinders secured in said apertures, connected pistons in said cylinders, chambered heads secured to said cylinders, inlet and outlet conduits connected to said chambered heads, a valve chamber connected to said conduit, valves in said chamber for controlling communication to said cylinder heads, a bracket on one of said bosses overhanging the space between said bosses, a power transmitting arm pivotally mounted on said bracket, valve operating mechanism connected to said arm, and means connecting one of said pistons to said valve operating mechanism.

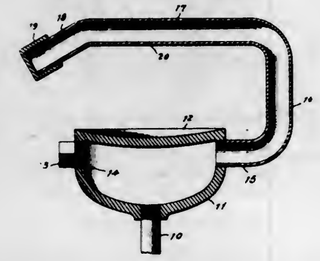
1,382,238. DIRECTION-SIGNAL. HARRY RHEAD, Trenton, N. J. Filed Jan. 22, 1921. Serial No. 439,202. 3 Claims. (Cl. 116—50.)



1. In a direction indicator, a bracket carried by the rear face of the body of an automobile, a direction indicator mounted to reciprocate in guides of said bracket and

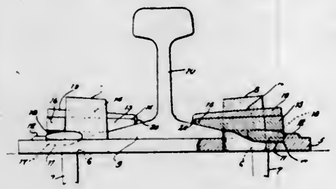
having an arrow head, operative rockable gear means mounted on said bracket and having an operative link connection with the indicator to move the indicator and extend its arrow head beyond the plane of the body of the automobile, and oscillatory means movable in a direction correspondingly with the movement of the indicator and carried by the instrument board and having a flexible rotative shaft connection with the operative rockable gear means to impart motion thereto.

1,382,239. OIL-BURNER. JOHN RHODES, Seattle, Wash., assignor of one-half to Harry H. Clark, Seattle, Wash. Filed Sept. 20, 1920. Serial No. 411,436. 1 Claim. (Cl. 158—66.)



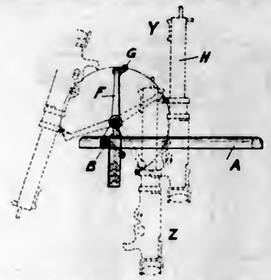
An oil burner comprising a vaporizing chamber, the said chamber having a concave recess formed in the outer top wall thereof, a fuel supply pipe communicating with the said chamber, a plug threadedly disposed in the side wall of the said chamber, a burner conduit threadedly disposed in the side wall of the said chamber diametrically opposite the said plug, the said plug and the lower end of the said burner conduit being coöperatively adapted to serve as supports for the said oil burner, the said burner conduit comprising an outwardly extending portion, an upwardly extending portion, a diametrically horizontal portion, and a downwardly disposed portion, all of the said portions being in a diametrically central vertical plane relative to the said vaporizing chamber, the said horizontal portion having a downwardly directed combustion aperture formed on the under side thereof disposed concentrically above the said concave recess and a removable cap threadedly secured to the outer end of the said burner conduit.

1,382,240. RAILROAD APPLIANCE. JOHN RICK and JOHN MOTOWSKI, Milwaukee, Wis., assignors of one-third to Edward A. Mock, Milwaukee, Wis. Filed Mar. 2, 1921. Serial No. 448,991. 6 Claims. (Cl. 238—304.)



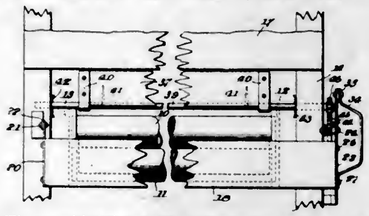
1. In a rail fastening, a rail receiving member, and means for securing a rail to said member and including a substantially inverted U-shaped member, a fastening member adapted to be passed through said U-shaped member for engagement with the base of the rail to be secured on the receiving member, means for rigidly securing said fastening member in engagement with the rail base, and means coöperating with said securing means for preventing the accidental outward movement of the fastening member.

1,382,241. MOUNTING FOR GUNS. ALLIOTT VERDON ROE, Hamble, Southampton, England. Filed Dec. 1, 1917. Serial No. 204,969. 2 Claims. (Cl. 89—40.)



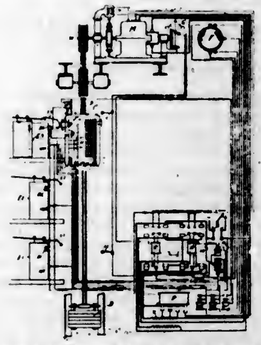
1. In a rotatable gun mounting, the combination of a fixed base ring with a rotatable channel ring, a pair of pivot supports on the latter, a forked gun arm with a pair of pivot members in the said pair of pivot supports, a pair of drums, one on each pivot concentric with its pivot member, a tension band associated with each drum, a crank shaft connecting the two tension bands, and a control lever rotating the said crank shaft so as to apply tension to the said tension bands, substantially as and for the purpose set forth.

1,382,242. SAFETY-GUARD FOR CLOTHES-WRINGERS. JOHN D. ROSS, Flushing, N. Y. Filed July 15, 1920. Serial No. 396,543. 13 Claims. (Cl. 68—32.)



12. The combination with coöperating wringer rolls, of a guard member comprising a bar formed to obstruct access to the danger zone and having an upper guard edge and surface just above said danger zone, said guard member being mounted for movement into and out of guard position.

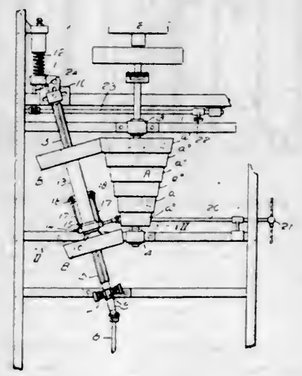
1,382,243. MOVABLE PLATFORM FOR PUSH-BUTTON ELEVATORS. ARTHUR C. ROTHENBERG, St. Louis county, Mo., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 27, 1920. Serial No. 384,519. 8 Claims. (Cl. 187—29.)



1. The combination of an electric elevator, a movable platform in the car, means to transmit the movement at any point over the entire movable platform, an electric

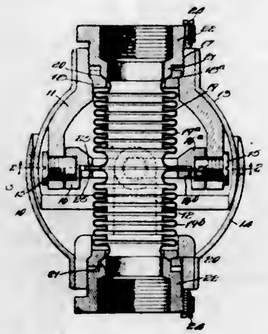
contact opened and closed by said movable platform, said contact being in parallel with the contact on the gate in the car and in series with the common feed wire of the operating circuit.

1,382,244. FRICTION-ROLL TRANSMISSION AND CHANGE-GEARING. GASTON ROUDIL, St-Ouen, and Marc Durand, Paris, France. Filed June 4, 1919. Serial No. 301,834. 6 Claims. (Cl. 74—26.)



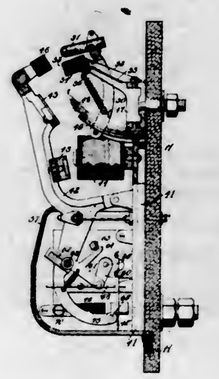
1. A change-speed device of the friction cone type, comprising in combination a shaft mounted in relatively stationary bearings, a second shaft having a pivotally mounted bearing whereby the shaft may be moved to and from the first shaft, means acting constantly to move the second shaft toward the first shaft, a plurality of multiple conical steps secured upon one of the shafts and a plurality of conical rollers mounted on the other shaft and so disposed that each roller shall engage a group or only a portion of said steps, the rollers and steps being so related that only a single roller shall be engaged with the steps at any given time.

1,382,245. COUPLING FOR RAILWAY TRAIN-PIPES. EDWARD A. RUSSELL and EDWARD A. SCHREIPER, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Filed June 3, 1919. Serial No. 301,439. 21 Claims. (Cl. 285—7.)



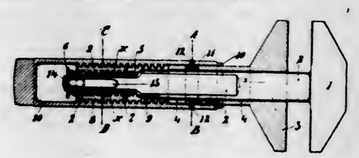
17. A flexible joint comprising a pair of members, a flexible tubular element secured at opposite ends to said members, respectively, and means for pivotally connecting the members to substantially the middle of the tubular element on axes substantially at right angles to each other.

1,382,246. ELECTROMAGNETIC SWITCH. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Original application filed Sept. 11, 1916, Serial No. 119,460. Divided and this application filed Apr. 16, 1919. Serial No. 290,602. 6 Claims. (Cl. 200—97.)



1. A circuit-breaker comprising a base carrying a contact-member, a movable contact-arm pivoted to the said base for movement toward and away from the said contact-member, electro-magnetic means for moving said arm to closed position, a brake for resisting the closing movement only of said arm, and means for automatically releasing the said brake as the arm approaches the closed position.

1,382,247. DEVICE FOR OPERATING THE JAWS OF SPANNERS AND THE LIKE. ROBERT SCHÄFER, Erfurt, Germany. Filed Apr. 28, 1920. Serial No. 377,356. 2 Claims. (Cl. 81—159.)

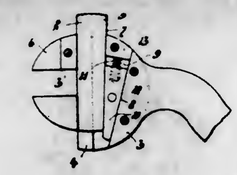


1. A device for operating the jaws of spanners and the like, comprising the combination with an internally screw-threaded sleeve connected to one jaw, of a nut having external as well as internal screw-thread fitted in said sleeve, the thread of the sleeve and the external thread of the nut being equal and interrupted so as to allow free axial relative displacement of the elements in one position and prevent such displacement in another position of relative rotary adjustment, a controlling element for the other jaw having a screw-threaded portion in engagement with the internal thread of the nut, a stop limiting the rotary displacement of the nut relative to the sleeve, and a brake-spring between said controlling element and the nut opposing the relative rotary displacement of these latter elements so that the rotary adjustment of the nut relative to the sleeve and of the controlling element relative to both can be effected by the operation of the same element, substantially as and for the purpose set forth.

1,382,248. ADJUSTABLE SPANNER. ROBERT SCHÄFER, Erfurt, Germany. Filed Jan. 3, 1921. Serial No. 435,091. 2 Claims. (Cl. 81—150.)

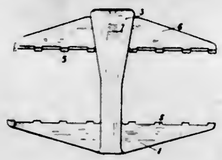
1. In an adjustable spanner, a round spanner head, a wedge-shaped bar secured to the adjustable jaw at right angles and guided in the spanner-head, the bar and head

being formed with interlocking shoulders, a locking wedge arranged in the head so as to support the bar and jam it to the shoulder of the head by the pressure on the jaw



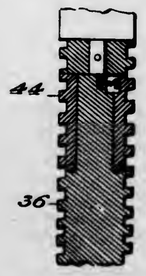
when the spanner is in use, and a spring arranged behind the locking wedge so as to hold it in locking position, substantially as set forth.

1,382,249. CLAMP FOR ANGULAR AND CROSS CONNECTIONS OF BEAMS. TAMIS CORNELIS SCHENK, Amsterdam, Netherlands. Filed Apr. 30, 1920. Serial No. 377,898. 2 Claims. (Cl. 144—297.)



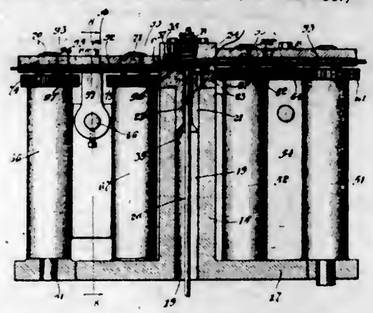
1. A clamp for members disposed at angles to each other comprising a body; a jaw at one end of the body and rigidly connected therewith, said jaw having a clamping surface for engagement with the material to be clamped; a coacting jaw fulcrumed at the other end of the body and also having a clamping surface to engage the material to be clamped, said fulcrumed jaw and body forming a toggle pivoting on the two jaws whereby a clamping action is produced when the toggle is closed and the material is confined between the jaws, the body and jaws being so shaped that the body which comprises a single relatively narrow rod fits into the corner produced by the two angularly disposed members to be clamped and in close proximity to the two members, while the jaws are in position to engage the members and clamp them together when the toggle is closed.

1,382,250. JACK FOR MOTOR-DRIVEN VEHICLES. EDWARD M. SCOTT, Oberlin, Ohio. Filed Dec. 27, 1920. Serial No. 433,253. 9 Claims. (Cl. 254—86.)



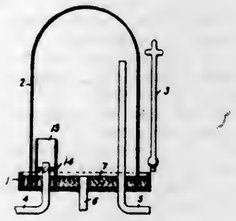
1. In a jack for motor driven vehicles, a jack member having a screwthreaded stem, with a plurality of idle rotatable sections, rotatable means mounted on said stem and engaging the screwthreads of the idle rotatable sections thereof and means for operatively connecting the drive shaft of a vehicle with said rotatable means.

1,382,251. MACHINE FOR COILING WIRE. SAMUEL P. SMURR, Chicago, Ill., assignor, by mesne assignments, to Verona V. Waldo. Filed Apr. 24, 1912. Serial No. 692,974. 29 Claims. (Cl. 153—66.)



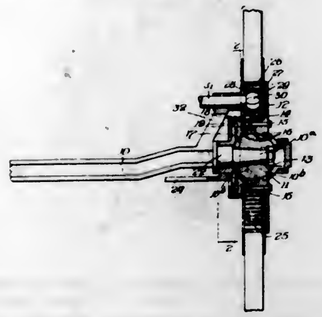
1. In a wire coiling machine, the combination of a rotatable bed, means for rotating said bed, a coiling head secured to rotate with said bed, said coiling head being provided with a bore comprising a spirally grooved section and with recesses which open laterally into said spirally grooved section of said bore, and anti-friction rollers rotatably mounted in said recesses, substantially as described.

1,382,252. PHOTOCHEMICAL APPARATUS. WALTER O. SNELLING, Allentown, Pa. Filed Mar. 6, 1917. Serial No. 152,588. 6 Claims. (Cl. 23—24.)



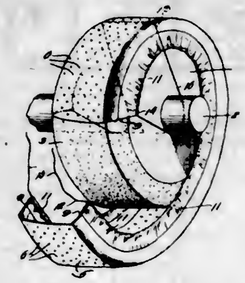
1. Photochemical apparatus comprising a shallow pan or tray, a transparent dome adapted to rest thereon, fluid inlet and outlet conduits extending through the bottom of the said pan and adapted to enter the said dome, and an extension for one of the said conduits comprising a tube of larger diameter than the said conduit and in telescoped relation thereto.

1,382,253. DRIVING AND STEERING WHEEL. THOMAS SPACIE, De Kalb, Ill. Filed July 3, 1919. Serial No. 308,552. 11 Claim. (Cl. 74—101.)



In a device of the class described, the combination of a load-carrying axle having a spherical bearing, a wheel mounted for rotation and oscillation on said bearing, a gear carried by the wheel, a driving shaft having a spherical end, the shaft being mounted vertically above the axle, and a pinion engaging said gear and provided with a spherical axial recess adapted to accommodate the spherical end of the shaft, the end and said pinion having interengaging ellipsoidal lugs, substantially as described.

1,382,254. BURNISHING-WHEEL COVER. CHRIS SPASOFF, Berkeley, Calif. Filed Oct. 9, 1920. Serial No. 415,880. 5 Claims. (Cl. 51—194.)



5. A burnishing wheel cover consisting of a band of heavy pliable material of slightly greater width than the face of the wheel, a strip of thin flexible material secured to each longitudinal edge of said band, and a gathering cord in the free edge of each of said strips.

1,382,255. SEAL FOR WELL-SCREENS AND MEANS FOR SETTING SAME. ALEXANDER THOMSON and VERRIN B. DANIELS, Sour Lake, Tex. Filed Nov. 23, 1920. Serial No. 425,957. 3 Claims. (Cl. 166—10.)



1. A seal for well screens and means for setting same comprising a carrying means for the screen having a coupling at its upper end, and a sleeve member connected with the coupling, a collar slidable on said sleeve, an expansible ring between the coupling and sleeve, said slidable collar being arranged to expand the expansible ring when in place into engagement with the interior of the well casing.

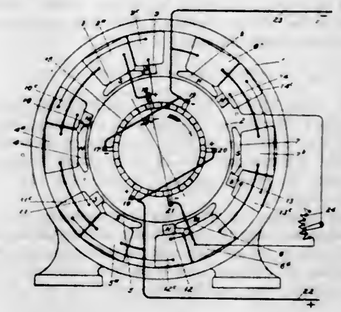
1,382,256. WATCH. LOUIS TOMCHIN, Brooklyn, N. Y. Filed Aug. 12, 1920. Serial No. 402,939. 1 Claim. (Cl. 224—4.)

In combination, a watch of the character designated, a casing therefor formed with diametrically opposed peripheral shouldered recesses and with an intermediate peripheral shouldered recess, the exterior edges of said recesses being flat and extending in planes transversely at right angles to the central axis of the watch, and detachable interchangeable auxiliary coupling devices formed with



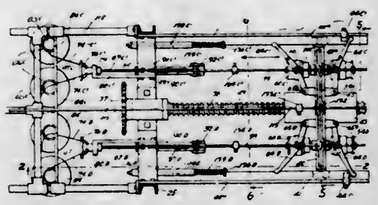
flat bases abutting against the said flat edges on the peripheral recesses in the watch casing, and with pivotally crossed spring latch levers adapted to engage with said shouldered recesses in the watch casing, for the purpose described.

1,382,257. VARIABLE-SPEED CONSTANT-VOLTAGE GENERATOR. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Nov. 6, 1916. Serial No. 129,669. 10 Claims. (Cl. 171—223.)



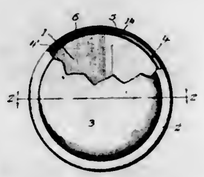
1. In a variable speed generator, means for providing field flux, an armature, main brushes coöperating with said armature, auxiliary brushes coöperating with said main brushes to supply current for energizing said means, and means responsive to the voltage across said auxiliary brushes for distorting the flux due to said first mentioned means.

1,382,258. WIRE-COILING MACHINE. EDWARD TURGEON, Minneapolis, Minn. Filed Feb. 2, 1920. Serial No. 355,694. 24 Claims. (Cl. 153—64.)



1. A wire cable forming machine comprising, in combination, a frame, a carriage mounted to travel forward and backward thereon, wire coilers mounted on said carriage and coöperating with stationary coil formers for forming a wire cable on the forward movement of the carriage, and a similar cable on the backward movement thereof.

1,382,259. LAMP. JOSEPH WALKER, Chicago, Ill., assignor to Angsten-Kox Company, Chicago, Ill., a Corporation of Illinois. Filed May 26, 1919. Serial No. 299,697. 8 Claims. (Cl. 240—111.)

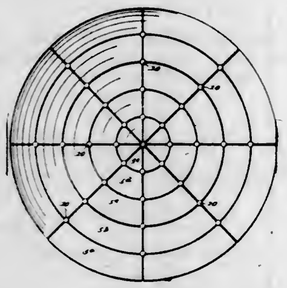


1. In a lamp of the kind described and in combination, a sheet metal cup-shaped body, said body having the edge cut spirally and thence bent outwardly to provide substantially a quarter round spiral thread decreasing in size and having its inner end terminating substantially adjacent the body, a transparent plate of size to fit the open end of the body and arranged thereat, and means for securing said plate in place on the body comprising a ring shaped part constructed to overlie the edge of said plate and bent over on its outer edge to engage and coöperate with said thread on the body, a portion of the outer edge cut away to provide clearance of the body edge to permit seating or unseating the rim.

1,382,260. PROCESS OF FORMING BURSTING CHARGE. CLIFFORD A. WOODBURY, Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 4, 1918. Serial No. 226,712. 13 Claims. (Cl. 52—22.)

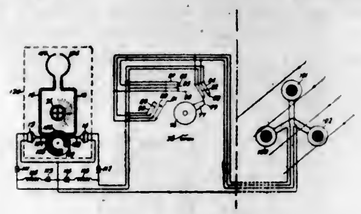
11. The process of charging an explosive container which comprises mixing a substance whose molecule contains a picryloxy group with a material comprising molten trinitrotoluol to dissolve and hold said substance in suspension therein and pouring the mixture into the container.

1,382,261. COMPOSITE REFLECTOR AND METHOD OF MAKING THE SAME. CARL E. AKELEY, New York, N. Y. Filed Mar. 19, 1919. Serial No. 283,648. 4 Claims. (Cl. 88—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. The method of making a composite reflector which consists in first providing a porous templet, then building up a reflector comprising a plurality of segments on said templet, then applying a backing of cementitious material to said reflector and finally in removing said reflector and backing from said templet by the use of a liquid percolating through said templet.

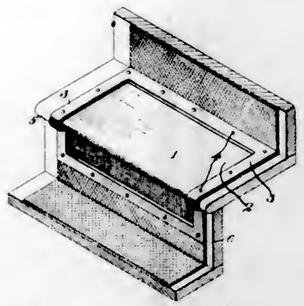
1,382,262. SWITCHING SYSTEM AND INDICATING DEVICE THEREFOR. ROY M. ALLEN, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 16, 1919. Serial No. 311,204. 6 Claims. (Cl. 181—0.5.)



1. In a switching system, a plurality of vibration detectors, an observing station, a binaural observation set thereat, means at the observing station for selectively associating pairs of detectors with the observation set, and a plurality of indicating means adapted for selective association with the observation set under control of the detector selecting means.

4. In an indicating device for a compensator, a rotatable shaft having a longitudinal channel therein, a cam member slidably mounted in the channel, a drum carried by the shaft, a plurality of plungers in the drum opposite the channel, a plurality of normally disconnected indicating scale-carrying sleeves surrounding the drum, and means for moving the member within the channel to cause the cam to selectively engage the plungers, thereby selectively locking the sleeves to the shaft.

1,382,263. CARPET OR THE LIKE MOUNTING FOR STAIRWAYS. CHARLES D. ARMSTRONG, San Francisco, Calif. Filed Mar. 6, 1920. Serial No. 363,821. 1 Claim. (Cl. 20—79.)



A device for renewing carpet or the like on the tread surface of steps including a thin plate made to overlie the tread of one step and the riser of an adjacent step, a depression in that portion of the plate which overlies both the tread surface of one step and the riser of an adjacent step, said depression made to receive the material to be mounted and forming a raised surface on the under side of the plate, said raised surface being accommodated by the thickness of the existing step covering, and means for mounting the plate upon a step.

1,382,264. HUSKING-MACHINE. WILLIAM SEWARD BAIRD, Decatur, Ill., assignor to Baird Corn Husker Co., Champaign, Ill., a Corporation of South Dakota. Original application filed May 26, 1916, Serial No. 99,992. Divided and this application filed Mar. 21, 1918. Serial No. 223,848. 10 Claims. (Cl. 130—5.)

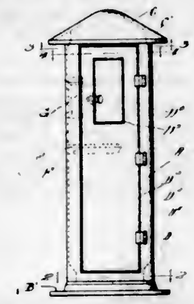
1. In combination in a husking machine, a pair of stalk engaging rollers, said rollers each having longitudinal cut-

out portions providing channels extending entirely thereacross, the raised portions of said rollers formed by said channels having cutout parts to provide on said rolls a



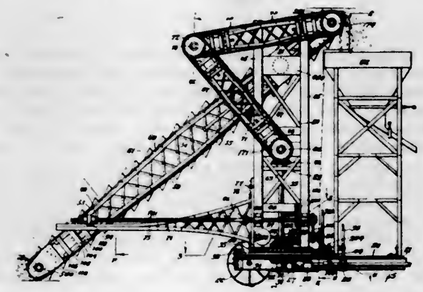
plurality of substantially rectangular shaped extensions, the rectangular shaped extension of one roll fitting in the corresponding pocket in an adjacent roll formed by said cutout portions.

1,382,265. TELEPHONE-BOOTH. FRANK F. BEEBY, Chicago, Ill., assignor to Cement-Gun Construction Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1919. Serial No. 340,316. 2 Claims. (Cl. 72—1.)



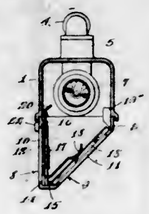
1. A sectional reinforced concrete booth, comprising a circular base, a circular bearing surface thereabout, a cylindrical body section open at top and bottom, said body thickened and reinforced at the top and bottom, the thickened bottom edge adapted to engage the circular bearing surface of the base, a circular convex roof section, a circular bearing surface within the periphery thereof, adapted to engage the thickened upper edge of the body.

1,382,266. CONVEYING APPARATUS. ARTHUR E. BENNETT, Buffalo, N. Y., assignor of one-half to Harry B. Staley, Buffalo, N. Y. Filed Aug. 13, 1919. Serial No. 317,104. 7 Claims. (Cl. 193—6.)



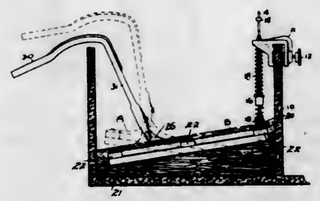
1. A conveying apparatus comprising a standard, a substantially horizontal and rigid supporting beam connected to said standard, a conveyer frame pivotally and slidably mounted on said standard and supported at its lower end slidably upon said supporting beam, adjustable means connected to the lower end of said conveyer frame and to said standard for moving the conveyer frame outwardly or inwardly on said supporting beam, a conveyer mounted on said conveyer frame, and power transmission between said conveyer and said main frame operating independently of the relative position of the different parts which support said conveyer.

1,382,267. PORCH-LIGHT. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 21, 1918. Serial No. 241,220. 4 Claims. (Cl. 240—11.)



2. A porch light comprising a box including upper and lower sections, the upper section having means for connection with an electric conduit, and means for supporting an electric lamp socket, the upper section being open at its lower side and provided with shoulders at opposite ends of the open side, the lower section being open at its upper side and detachably mounted on the lower side of the upper section and having fixed shoulders for interlocking with the shoulders on either side of the upper section, and latches coacting with the shoulders on the opposite side of the upper section, substantially as and for the purpose described.

1,382,268. WASHING-MACHINE. CHARLES L. BREHIO, Worcester, Mass. Filed July 7, 1920. Serial No. 394,449. 4 Claims. (Cl. 68—19.)

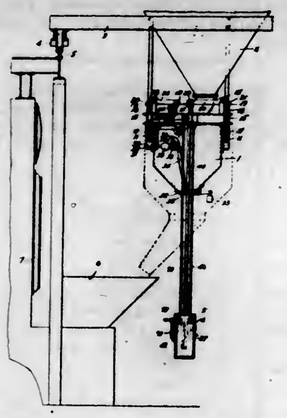


1. In a washing machine, the combination of a movable platform having two air chambers at opposite ends opening below the water, whereby when either end of the platform is raised suction will be produced to cause circulation of the water, means for yieldingly supporting one end of the platform adjacent to one of said chambers, and means at the other end of the platform adjacent to the other chamber by which said other end can be raised and lowered.

1,382,269. SCALE. WILLIAM PENNEFATHER BUCHAN, Minneapolis, Minn. Filed July 21, 1919. Serial No. 312,376. 8 Claims. (Cl. 249—1.)

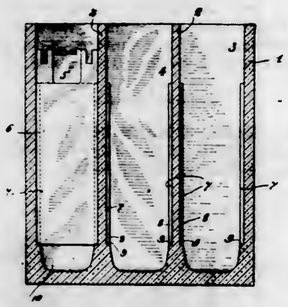
1. Weighing scales having in combination, a container to hold matter to be weighed, the container having a discharge opening, a gate normally closing the discharge opening, a feed member having an opening to feed matter to said container, a gate normally closing the feed opening, a balance lever connected to said container and adapted to assume a balanced position to indicate weight of container contents, manually operable means to open the feed

gate and the discharge gate, and means controlled by the balance lever to lock said gate-opening means against op-



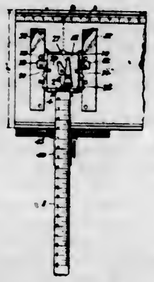
eration except when the balance lever is in balanced position.

1,382,270. STORAGE BATTERY. ALVIN BUGBEE, Trenton, N. J. Filed Apr. 21, 1920. Serial No. 375,485. 4 Claims. (Cl. 204—29.)



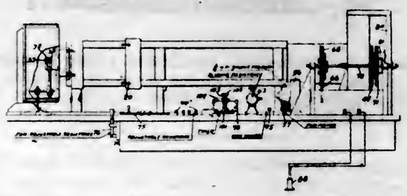
1. A storage battery container formed of an integral piece of hard porcelain and containing a plurality of storage cell chambers.

1,382,271. UNIVERSAL TEMPLET FOR STRUCTURAL STEEL WORK. EDGAR W. CUNNINGHAM, New Brunswick, N. J. Filed Aug. 18, 1920. Serial No. 404,369. 10 Claims. (Cl. 33—189.)



1. A device for marking perforations in structural steel members, comprising a scale bar, a templet head secured thereto, templet plate holders adjustably mounted in said head, and a T-head adjustably mounted on said scale bar.

1,382,272. SENSITOMETER FOR TESTING WITH ACCURACY THE SPEED, LATITUDE, AND COLOR SENSITIVITY OF PHOTOGRAPHIC PLATES AND FILMS. RAYMOND DAVIS, Washington, D. C. Filed Dec. 15, 1920. Serial No. 430,961. 3 Claims. (Cl. 95—10.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A sensitometer comprising a source of light and a test specimen carrier relatively adjustable toward and from one another and a light tight tunnel coöperating with the two and adjustable in length to correspond with the distance therebetween.

1,382,273. COMBINED TRANSMITTER AND RECEIVER. WILLIAM W. DEAN, Rochester, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed May 4, 1916. Serial No. 95,306. 13 Claims. (Cl. 179—103.)

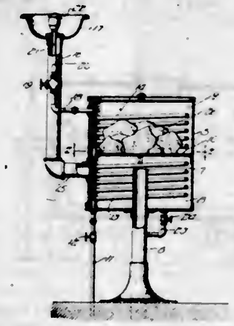


1. In a device of the class described, a relatively thin sheet metal shell for housing a telephone instrument, a handle member for said housing, said handle member comprising a thin walled metal tube, said shell having a threaded opening in one side wall which opening is substantially tangent to an adjacent wall, said tube being threaded into said opening and projecting into the shell substantially tangent to said latter wall, and a rivet passing through said latter wall and the adjacent side wall only of said tube, said rivet passing through the wall of the shell and the wall of the tube beyond the threaded opening and holding the tube against turning in the threads and also holding the end of the tube rigidly in contact with said tangent wall.

1,382,274. FOUNTAIN. FRANKLIN M. DE BEERS, Glencoe, Ill., assignor to Swenson Evaporator Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 15, 1919. Serial No. 282,923. 2 Claims. (Cl. 62—147.)

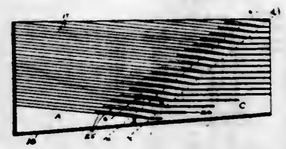
1. A device of the character described having in combination a tank; a perforate partition dividing the tank

into an upper compartment to contain ice and a lower compartment to receive waste liquid from the upper compartment; a coil in each compartment, said coils connected together, the liquid inlet of the lower coil passing through a wall of the lower compartment and the dis-



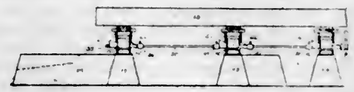
charge terminal of the upper coil passing through a wall of the upper compartment and a waste pipe connected to the lower compartment to return the waste cold liquid from the discharge terminal of the upper coil to said lower compartment to chill the liquid in the lower coil.

1,382,275. ORE-CONCENTRATOR. EMIL DEISTER, Fort Wayne, Ind., assignor to Deister Machine Company, Fort Wayne, Ind., a Corporation. Filed Dec. 26, 1919. Serial No. 347,509. 2 Claims. (Cl. 83—88.)



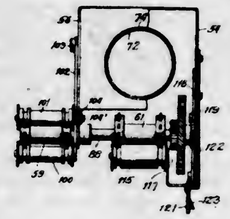
1. In a transversely inclined differentially reciprocating concentrating table the combination with a deck, of main riffles thereon extending in the direction of travel of the minerals toward the mineral discharge end of the deck and having a portion of their upper surfaces sloping downwardly toward the tailings discharge side of the deck and a flat portion substantially parallel with the surface of the deck, each of said riffles having side walls substantially at right angles to the surface of the deck, the portion of each said riffle facing the feed side of the deck being greater in height than the opposite side thereof and the width of each riffle being substantially greater than the height thereof, the forward end of each said riffle being tapered to reduce its height and cap riffles on the flat portion of the upper surface of the main riffles to increase the height of the upper vertical side walls of the riffles.

1,382,276. SUPPORTING MECHANISM FOR ORE-CONCENTRATORS. EMIL DEISTER and WILLIAM F. DEISTER, Fort Wayne, Ind., assignors to Deister Machine Company, Fort Wayne, Ind., a Corporation. Filed Nov. 17, 1919. Serial No. 338,722. 1 Claim. (Cl. 83—88.)



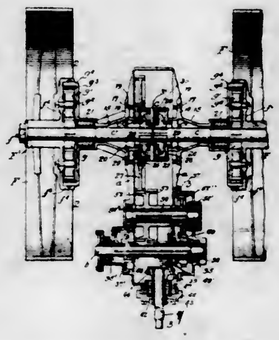
In supporting mechanism for ore concentrating tables, the combination of a plurality of bearings rigidly fixed beneath one side of the table upon which the table pivots and reciprocates, a plurality of adjustably supported bearings beneath the opposite side of the table each comprising a hollow base section, a bearing carrying section vertically movable in the base section, a reciprocable member supported in the base section and carrying three wedges adapted to engage the lower end of the bearing-carrying section at three points and means connecting all the wedge carrying members for simultaneously operating the same to control the inclination of the table.

1,382,277. MOTION-PICTURE MACHINE. HERMAN A. DE VRY, Chicago, Ill., assignor to The De Vry Corporation, Chicago, Ill., a Corporation of Illinois. Original application filed Aug. 16, 1915, Serial No. 45,633. Divided and this application filed Sept. 28, 1916. Serial No. 122,586. 8 Claims. (Cl. 88—17.)



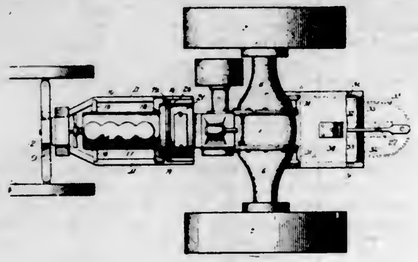
1. In film feeding mechanism, the combination of a sprocket, an idler for holding a film on the sprocket, a movable idler support, a spring latch provided with means to positively lock the support in position to hold the idlers in operative relation to the film, and means on the support whereby it may be shifted.

1,382,278. VARIABLE-SPEED-TRANSMISSION GEARING. JOHN B. FOOTE, Oak Park, Ill. Filed July 16, 1917. Serial No. 180,750. 5 Claims. (Cl. 74—58.)



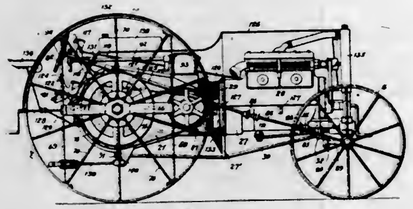
1. In transmission gearing, the combination of a case, differential gearing in the case, a transverse drive-shaft mounted in the case, a longitudinal shaft connected to drive the transverse drive-shaft, an external gear on and for driving the differential gearing, an intermediate transverse shaft mounted in the case, a gear on the intermediate shaft constantly meshing with the gear on the differential, and gearing between said shafts for driving the gear on the intermediate shaft at high, low and intermediate speeds in one direction and inclosed in the case the driving connection between said longitudinal and transverse drive-shaft and said gearing comprising a plurality of pinions, one of which is slidably mounted on the hub of said fixed gear and adapted to be driven thereby.

1,382,279. TRACTOR. JOHN B. FOOTE, Oak Park, Ill. Filed Oct. 4, 1919. Serial No. 328,577. 5 Claims. (Cl. 180—54.)



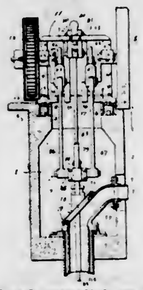
1. In a tractor, the combination of front and rear axles, a supporting structure comprising a transmission gear-case extending around and inclosing one of said axles and an open frame having one of its ends supported on the other axle and sides secured to the gear case, and a motor secured on said sides and removable therefrom while the frame-sides remain attached to the gear case.

1,382,280. MOTOR-DRIVEN VEHICLE. JOHN B. FOOTE, Oak Park, Ill. Filed Aug. 25, 1917. Serial No. 188,091. Renewed Apr. 5, 1921. Serial No. 458,760. 15 Claims. (Cl. 180—54.)



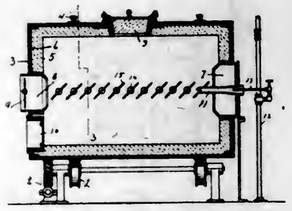
1. In a tractor, the combination of front and rear axles, one of which is driven and the other of which is tiltable, a motor, transmission gearing driven by the motor, and connected to drive the driven axle, a case for said gearing inclosing the driven axle, and a supporting structure separate from the gear-case on which the motor is supported, having one of its ends extended to and supported by the tiltable axle and its other end rigidly secured to the other end of said case, said motor being separate and removable from said structure without disconnecting the structure from the case.

1,382,281. PUMP-HEAD. SAMUEL M. FULTON, Pomona, Calif. Original application filed Jan. 14, 1920, Serial No. 351,480. Divided and this application filed Aug. 7, 1920. Serial No 401,838. 5 Claims. (Cl. 74—14.)



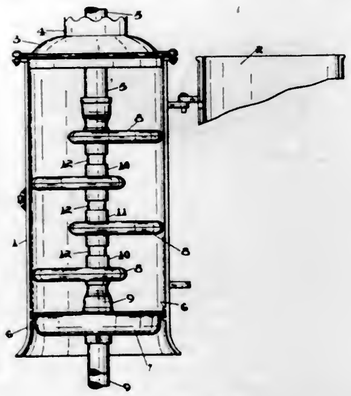
1. In a pump-head, parallel walking beams, a crank shaft having opposed crank arms, intermediate crank disks and crank pins connecting the adjacent arms and disks, and slide blocks engaging the crank pins and walking beams.

1,382,282. PROCESS FOR MAKING LITHARGE AND RED LEAD. HENRY M. GABEL, Cincinnati, Ohio. Filed Dec. 6, 1919. Serial No. 343,067. 1 Claim. (Cl. 75—19.)



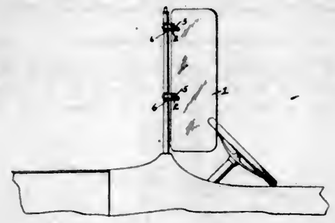
The process of making litharge which comprises comminuting metallic lead and repeatedly and successively bringing the comminuted lead into contact with an oxidizing gas and subjecting it to an abrasive action, the said oxidizing gas being heated during succeeding intervals of time to temperatures for first drossing said lead and then converting the drossed lead into litharge.

1,382,283. WATER-HEATER USING A FLUID FUEL. JOHN FRANCIS GOODWIN, Sarnia, Ontario, Canada. Filed Oct. 13, 1919. Serial No. 330,244. 2 Claims. (Cl. 122—216.)



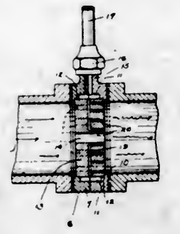
1. A sheet metal water section for a water heater shaped in plan as the segment of a circle greater than a semi-circle and formed of two horizontal parts welded together and provided with a water connection opening in one side at the center of the circle of which the curved edge of the section is an arc, and a second water connection opening in the other side close to the curved edge and also to the straight edge of the section, a sheet metal partition starting from the straight edge of the section adjacent the outer opening and extending substantially concentric with the curved side to a point adjacent to but spaced from the said straight edge, a second partition substantially concentric with the first starting from the straight edge at the opposite side of the central opening from the starting point of the first partition and extending about said central opening to a point adjacent to, but spaced from the straight edge, the partitions being spaced and proportioned to provide a continuous waterway of approximately the same cross sectional area at all points in its length and being welded in place.

1,382,284. AUXILIARY WINDSHIELD. ROBERT L. GREER, San Diego, Calif. Filed June 5, 1919. Serial No. 302,034. 3 Claims. (Cl. 296—84.)



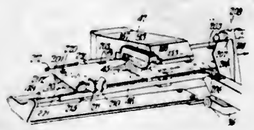
1. An auxiliary wind shield for vehicles, including a transparent wind shield member, a pair of resilient clips sprung over the edge of said transparent shield member in spaced relation with their extended ends adapted to engage the opposite sides of said transparent shield member and an arm member secured to the side of each of said spring clips and a clamp support pivotally connected to each of said arm members at their one ends and secured to the conventional bolts on the conventional wind shield at their other ends.

1,382,285. ENGINE ATTACHMENT. RALPH W. HARRIS, Newark, Ohio. Filed Sept. 3, 1920. Serial No. 408,035. 3 Claims. (Cl. 123—119.)



1. A fuel mixture homogenizer for internal combustion engines, comprising a body portion arranged to be positioned in connnection with the intake conduit of an engine, a perforated heating plate carried by said portion and situated within said conduit, said plate having openings formed therein to permit of the passage of the fuel mixture therethrough, said body portion being provided with an annular chamber disposed in communication with ports provided in said plate and establishing communication between said conduit and said chamber, and means for leading a portion of the exhaust gases of said engine into said chamber to effect the heating of said plate and the introduction of said gases into said conduit.

1,382,286. COMBINED TYPEWRITING AND COMPUTING MACHINE. FREDERICK A. HART, Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1916. Serial No. 125,877. 45 Claims. (Cl. 235—60.)



4. In a computing machine, the combination with number-indexing means, of a plurality of registers, each register comprising wheels, actuating means effective to rotate said wheels in one direction only, mechanism for registering positive and negative values of an indexed number in different registers simultaneously, and means for determining whether the affected register mechanism shall record positive or negative values in said registers.

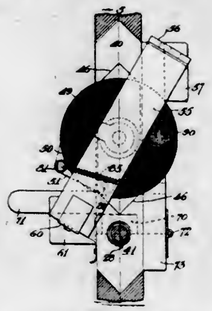
10. In a computing machine, the combination with a plurality of registers, of key-actuated indexing means including a plurality of denomination selectors, a plurality of settable tappets on each of said selectors, and means for determining the selectors to be effective and the registers with respect to which the selectors, so determined, are to be effective, including a perforated bar settable to different positions to coöperate with said tappets to effect a setting of the same and thereby determine the selectors to be effective, and the registers with respect to which said selectors are to be effective.

24. In a computing machine, the combination with computing mechanism normally set for addition, of means to set said computing mechanism for subtraction, a denomination selector, a settable tappet on said selector for actuating said setting means for automatically shifting the computing mechanism to subtraction, and an adjustable element for causing said tappet to assume an ineffective position on said selector.

1,382,287. PROCESS OF CONVERTING PROPELLENT POWDERS INTO DETONATING EXPLOSIVES. JOHN HERBERT HUNTER, U. S. Army. Filed Sept. 3, 1920. Serial No. 408,044. 4 Claims. (Cl. 52—20.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

2. The process of converting propellent powders into detonating explosives consisting in pulverizing and separating the pulverized powder according to the degree of pulverization.

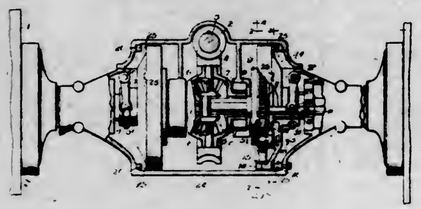
1,382,288. FILM-WINDING MACHINE. DEMETRY ISNOW, Los Angeles, Calif., assignor to Michael Leshing, Los Angeles, Calif. Filed June 10, 1918. Serial No. 239,319. Renewed Nov. 29, 1920. Serial No. 427,209. 5 Claims. (Cl. 242—55.)



1. A friction device for maintaining a uniform tension on a roll of material as it is unwound and therefore decreases in diameter comprising a carrier upon which the roll of material is carried; said carrier having a cone formed on one end thereof; a pin on which said carrier turns; a cam slide having a conical depression into which said cone fits; guides in which said cam slide is free to move along said pin; a spring slide block through which said pin passes fixed to said guides; a fixed cam secured to said spring slide block about said pin; a movable cam free to turn on said pin, said movable cam coacting with said fixed cam to force said cam slide into engagement with said carrier; a radial arm secured to said movable cam and by which said movable cam may be turned; a link pivoted at one end on said arm and at the other end on a roller pin; a roller turning on said pin and so situated as to bear on the outer surface of said roll of material;

two members pivoted at one end on said roller pin and at the other end on a pivot fixed with relation to said guides; and a spring so placed as to hold said roller in contact with said material.

1,382,289. SPEED-REDUCING MECHANISM. JOHN JANICKI, Chicago, Ill., assignor to Leonard S. Szumkowski, Chicago, Ill. Filed Dec. 4, 1919. Serial No. 342,487. 9 Claims. (Cl. 74—34.)



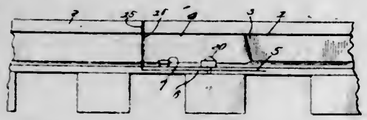
1. In combination in a motor vehicle, a propeller shaft, two traction wheels, a differential mechanism between the propeller shaft and said traction wheels and including a main worm wheel and a worm on the propeller shaft in mesh with said worm wheel, a power transmitting connection between said differential mechanism and said traction wheels, including two speed reducing mechanisms, one between each traction wheel and said differential mechanism and both located exterior of said wheels, said speed reducing mechanisms each including shiftable means whereby the traction wheels may either be driven direct from the differential mechanism or at a reduced speed through said speed reducing mechanism, and means connecting both shiftable means together whereby the same may be operated simultaneously.

1,382,290. SOFT HAT. JULIUS JOSEPHS, New York, N. Y., assignor to The Crofut & Knapp Company, New York, N. Y. Filed June 25, 1920. Serial No. 391,792. 3 Claims. (Cl. 2—108.)



1. In a soft hat, means for retaining the shape with the top centrally depressed front to back, the top side creases suitably spaced, and the sides indented, comprising tabs secured to each side of the interior of the hat slightly above the depressed portion, and means to fasten together said tabs.

1,382,291. RAIL-JOINT. HENRY B. KAEHN, Goltry, Okla. Filed Apr. 9, 1921. Serial No. 459,872. 2 Claims. (Cl. 238—235.)



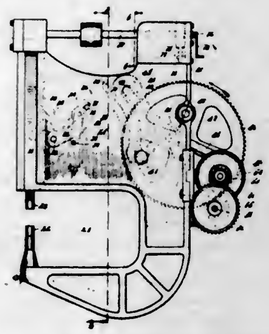
1. The combination with a pair of adjoining rail ends, one of said rail ends having its base cut away, and an elongated recess and cavity opening downward in the remaining web portion, of a web or flange projecting from the other rail end and provided with a head, to enter the cavity of the first rail end, said cavity and the head having adjoining shoulders to hold the rail ends against displacement longitudinally, and means passing transversely through the rail ends and through the last mentioned web or flange for connecting the rail end.

1,382,292. HOLDER FOR SAFETY-RAZOR BLADES. HARRISON D. KEMPTON, Providence, R. I. Filed Nov. 29, 1919. Serial No. 341,411. 2 Claims. (Cl. 30—25.)



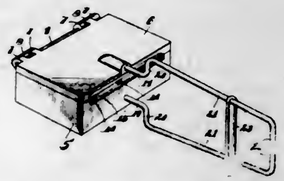
1. A safety razor blade holder comprising a handle having a recess therein, a strip of metal folded upon itself forming separable side arms adapted to grip and bind a blade between them, said strip having free end portions adapted to be inserted and removably held in said handle recess, a backing plate for the blade integral with one edge of one arm and having upturned ends, and a blade guide roll journaled in said ends.

1,382,293. RIVETING-MACHINE. WILLIAM H. KENNEDY, Chicago, Ill., assignor of one-half to Lewis B. Miller, Chicago, Ill. Filed Mar. 5, 1918. Serial No. 220,466. 20 Claims. (Cl. 78—41.)



1. A machine of the class described comprising relatively stationary and movable jaws; means for actuating said movable jaw comprising a toggle engaging with said movable jaw; a pivotally mounted lever coöperating with said toggle; and a second toggle for actuating said lever, substantially as described.

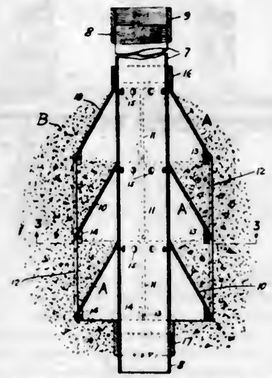
1,382,294. HAND-MOLD. EDWARD J. KUKAC, Chicago, Ill. Filed Sept. 25, 1919. Serial No. 326,224. 4 Claims. (Cl. 22—156.)



1. A hand mold comprising, a mold bearing member having passages communicating with the molds in said member and the exterior of said member; a cover hingedly

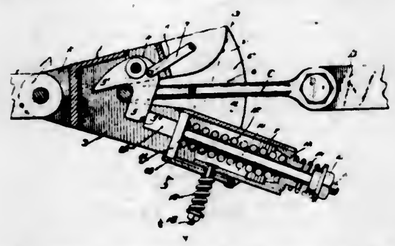
connected to said member, adapted in operative position to engage the upper surface thereof; and means, including resilient handles, for yieldingly retaining said cover in said engaging relation, substantially as described.

1,382,295. APPARATUS FOR SEPARATING AND COLLECTING FLUIDS IN WELLS. MAHLON E. LAYNE, Memphis, Tenn. Filed Sept. 28, 1917. Serial No. 193,745. 9 Claims. (Cl. 166—5.)



1. In well apparatus the combination of a substantially vertical delivery chamber, and an elongated collecting chamber exterior of the delivery chamber in which the fluid is separated from the formation and which communicates at its upper end with the delivery chamber, the outer wall of the collecting chamber extending well below the point of communication between the chambers, and the areas of the entrance of the collecting chamber and the communication between the chambers being so proportioned that the flow at the point of separation is at a rate at which suspension of the formation substantially ceases.

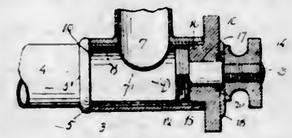
1,382,296. AUTOMATIC COUPLING. REINHARD F. LEITZKE, Hustisford, Wis. Filed Nov. 9, 1920. Serial No. 422,811. 2 Claims. (Cl. 213—67.)



1. A coupling comprising a head provided with a flared mouth, a downwardly inclined hollow tongue extending from the head, a tooth pivotally mounted within the mouth having inner and outer prongs adapted to receive a coupling link, a spring controlled plunger mounted in the hollow tongue having a nose engageable with the tooth, the plunger being arranged to have an oscillatory bearing at its front end and a yielding supporting plate for the nose end of said plunger.

1,382,297. SOUND-REGULATOR FOR TALKING-MACHINES. WILLIAM ALBERT LOMAS, Detroit, Mich. Filed Aug. 4, 1919. Serial No. 315,195. 1 Claim. (Cl. 274—27.)

The combination with a talking machine having a tone arm provided with a cylindrical cross-piece, a goose-neck carrying a reproducer and having a cylindrical end pivotally mounted within said cross-piece, the latter and said cylindrical end being provided with alined openings establishing communication between the reproducer and the tone arm, of a sleeve rotatably fitting within said cylindrical end and having a circumferential opening normally registering with said alined openings, said circumferential opening having a reduced tapered extension adapted to register with said alined openings, an annular screw plug engaging the said cylindrical end of the goose-



neck and having an enlarged head extending radially beyond said cross piece and provided upon its outer face with stop pins, a screw plug engaging the outer end of said sleeve and having a stem rotatably mounted in the central aperture of said annular plug,, and a nut threaded upon said stem and carrying a pointer, the latter being adapted at the position of full registering adjustment of the opening of said sleeve to engage one of said stop pins, and at the position of minimum registering adjustment of the tapered extension of said opening to engage the other stop pin.

1,382,298. TRAP. ADOLPH F. LONK, Chicago, Ill. Filed May 27, 1920. Serial No. 384,661. 3 Claims. (Cl. 43—90.)



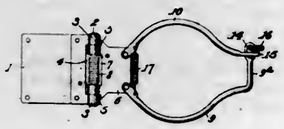
3. A trap comprising a pair of jaws provided on their inner edges with overlapping lugs, a pivot inserted through said lugs, means acting on the jaws above the pivot to yieldably hold the jaws together, a hanger suspended upon the pivot and depending into the space between the jaws, a trip carried by the hanger and constructed to obstruct the space between the jaws and engaging the inner opposed edges of the same below the pivot to hold them normally apart, and means carried by the pivot for supporting the trap in a set position.

1,382,299. CAP FOR GREASE-CUPS. GEORGE LOWTHER, Pittsburgh, Pa. Filed July 12, 1920. Serial No. 395,620. 6 Claims. (Cl. 184—105.)



6. In a cap for filling grease-cups of the character described, a cover, a depending circular flange provided with a plurality of circular steps severally threaded interiorly; a thimble rotatably mounted upon and through the cover and centrally threaded for connection with a supply tube; and a wiper secured on said thimble and within said cup.

1,382,300. LOCKING DEVICE FOR AUTOMOBILES. WILLIAM LUDWIG, Bellaire, Ohio. Filed Jan. 27, 1920. Serial No. 354,417. 10 Claims. (Cl. 188—31.)



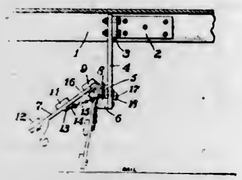
1. In a device of the character described, a bracket adapted for mounting in fixed position on an automobile adjacent to a wheel of the latter, a member articulated with said bracket and foldable with respect to the latter, a coil spring normally maintaining said member in folded relation to said bracket, a pair of complemental arms pivotally mounted on said foldable member and adapted to be disposed in embracing relation to the tire and felly of the adjacent wheel, and means for securing said arms in such relation.

1,382,301. SAFETY-RAZOR. MARY M. MCCAFFREY, Washington, D. C., assignor of one-half to Isabel Lees Bayless, Washington, D. C. Filed Aug. 30, 1920. Serial No. 406,947. 4 Claims. (Cl. 30—12.)



1. A safety razor having in combination, a handle, a flexible circular blade provided with a slot with parallel edges and a series of elliptical openings placed radially in said blades, a circular head provided with guard teeth and a special guard portion integral therewith to cover slot in blade and an elliptical raised portion integral with said head associated with said blade, a circular clamping cap piece, and means for holding said parts together as and for the purpose described.

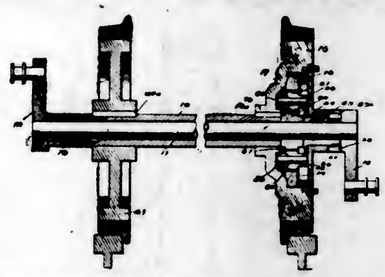
1,382,302. FENDER. FRANCIS R. MCCALLIN, Long Island City, N. Y. Filed Apr. 18, 1921. Serial No. 462,234. 2 Claims. (Cl. 293—54.)



1. A fender comprising two uprights, a cross bar connecting the same, a pivotal life guard secured to said cross bar, means for regulating the angle of the life guard and for holding the same in a desired position, spring hinges forming the pivotal connection of the life guard, the springs taking up the shock when said life guard is actuated, and means for limiting the inward pivotal movement of the life guard.

1,382,303. LOCOMOTIVE-DRIVER. JAMES FRANCIS MCCARROLL, Holden, La. Filed Feb. 9, 1921. Serial No. 443,624. 8 Claims. (Cl. 105—97.)

1. In a locomotive of the character described, a hollow axle, a crank shaft arranged in said hollow axle, cranks at the ends of said crank shaft, a gear driver having a hub fixed to said hollow axle at one end thereof and having a recess in its body portion, an internal ring gear fixed to the body portion of said driver within said recess, a driving gear fixed to the crank shaft within said recess, planetary gears meshing with said driving gear and with said internal ring gear, a frame carrying said planetary gears and consisting of an inner section comprising a ring, an outer section comprising a ring having



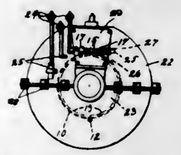
an annular hub journaled on the crank shaft and short shafts extending between said rings and carrying said planetary pinions, a cover plate for said recess secured thereto and having an annular flange journaled on the hub of said outer section and terminating short of the crank, a tie or torque rod arranged on the hub of said outer section intermediate said annular flange and keyed to said annular hub, and a driver fixed to said hollow axle at the opposite end thereof.

1,382,304. ARTIFICIAL TOOTH. ARCHIE T. MCGUINNESS, San Francisco, Calif. Filed Oct. 30, 1919. Serial No. 334,440. 3 Claims. (Cl. 32—9.)



1. As an article of manufacture, an occlusal surface adapted to fit a recess in a plate, a plate formed of thin metal and recessed for said occlusal surface and adapted to be soldered to a bridge.

1,382,305. BAND FOR FORD CARS. JOSEPH MALLIGAN and CHARLES R. LYTLE, Point Marion, Pa. Filed June 25, 1920. Serial No. 391,643. 4 Claims. (Cl. 188—249.)

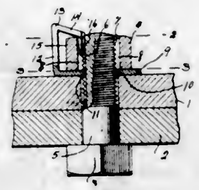


1. A friction or clutch band comprising hinged sections having a lining, and lugs pivoted to the ends of the sections diametrically opposite to said hinged connection.

1,382,306. NUT-LOCK. BLISS W. MARR, Detroit, Mich. Filed Oct. 11, 1920. Serial No. 416,110. 4 Claims. (Cl. 151—3.)

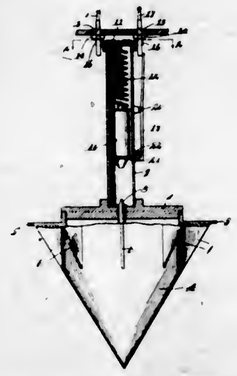
1. The combination with a bolt having a shank provided with a longitudinally extending groove, of a nut threaded on the shank having its bore provided with a plurality of diametrically opposite grooves, any one of which being registrable with the groove of the shank, a lock washer on the shank between the nut and a member

to be clamped and having means to engage the groove of the shank, said lock washer having an extension overlying



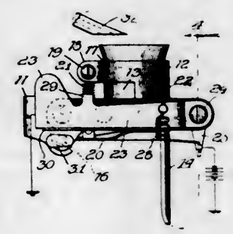
the nut and terminating in a lug engageable wedgedly with the registering grooves of the shank and the nut, thereby preventing detachment of the nut.

1,382,307. BOMB. ABI MAYERSON, Chicago, Ill., assignor of one-half to J. Stanley Conroy, Chicago, Ill. Filed June 20, 1918. Serial No. 240,938. 2 Claims. (Cl. 244—1.)



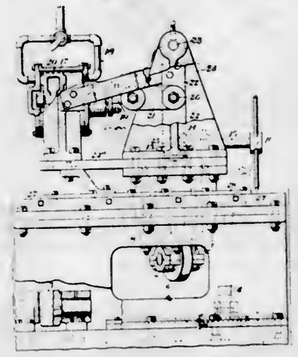
1. A bomb having a depressible exploding element; a vertically movable striker adapted to engage with and depress said exploding element; means for yieldingly holding said striker in elevated position; means for releasably locking said striker in elevated position; diametric laterally projecting lugs on the bomb; a pair of jaws adapted to releasably engage with each of said lugs to support the bomb preparatory to dropping of the same; and a wedge coöperating with each pair of jaws to hold the same in operative position, substantially as described.

1,382,308. CONTROL MECHANISM FOR COIN-OPERATED DEVICES. HERBERT S. MILLS, Chicago, Ill. Filed Mar. 27, 1920. Serial No. 369,341. 2 Claims. (Cl. 194—9.)



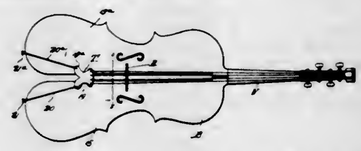
1. In a control mechanism for coin-operated devices, a coin guide, a pivoted plate closing said guide, an eccentric contact member attached to the pivot of said plate and movable therewith, a lever member pivotally attached to the guide and insulated therefrom, said lever member being provided with a contact surface engageable by said eccentric contact member on movement of the said plate and capable of being raised by the eccentric contact member, and a spring constantly exerting a force tending to hold said pivoted plate in its normal position, closing the guide.

1,382,309. STRAIGHTENING-MACHINE. JAMES T. MOLTRUP, Beaver Falls, Pa. Filed Aug. 1, 1919. Serial No. 314,616. 3 Claims. (Cl. 153—48.)



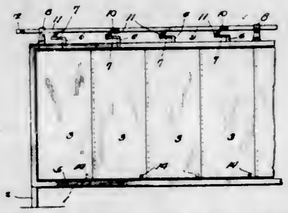
1. In a straightening machine, the combination of a carriage, a straightening element mounted on said carriage for vertical movement, toggle members connected to said element, a power cylinder located at one side of and above the straightening element with its horizontal axis in the horizontal line of the center joint of the toggle members, a piston in said cylinder, and a link connecting the rod of said piston with the center joint of said toggles, substantially as described.

1,382,310. VIOLIN. DANIEL HOWE NEILLY, Bradford, Pa. Filed July 12, 1920. Serial No. 395,717. 7 Claims. (Cl. 84—274.)



1. A violin comprising, a body formed of two longitudinal sections connected at their ends, a neck connected to the sections, a bridge spanning the sections, and a tail piece connected to both of the sections.

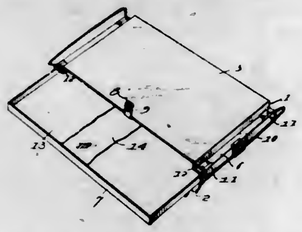
1,382,311. SIGN. AUBREY C. NOWLIN, Sherman, Tex. Filed Sept. 1, 1920. Serial No. 407,388. 4 Claims. (Cl. 40—68.)



1. A sign comprising a stationary frame, a panel mounted in the frame for turning movement in a hori-

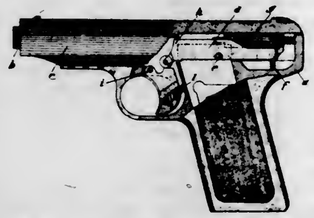
sontal plane, and a stop pivoted in the frame for free movement in a transverse vertical plane of the frame in position to be engaged by an end of the panel.

1,382,312. DUPLICATOR. EDGAR A. OPPENHEIMER, Chicago, Ill., assignor to Newton D. Baker, Secretary of War, trustee. Filed Apr. 17, 1919. Serial No. 290,794. 3 Claims. (Cl. 101—131.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



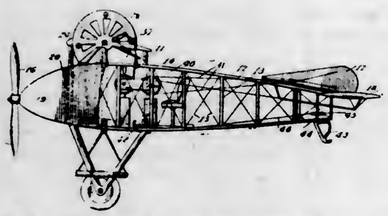
1. A duplicator comprising a support having depressed end portions to form steps, said steps having depressions, and clips attached to the steps and adapted to be received in the depressions.

1,382,313. SELF-LOADING PISTOL. HEINRICH ORTGIES, Erfurt, Germany. Filed Apr. 1, 1919. Serial No. 286,817. 1 Claim. (Cl. 42—3.)



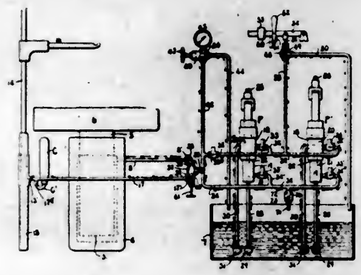
In a firearm, the combination with the breech slide and the trigger; of a sear having a forked front end, the outer arm of which is provided with a guide opening; and a spring controlled stud slidably mounted in said opening and provided with a portion which is normally disposed in the path of the trigger to operatively couple the latter to said sear, but which is automatically displaced from said path consequent upon the rearward movement of the slide to prevent operation of the sear by the trigger when the breech is open.

1,382,314. AEROPLANE. JOSEPH W. ALPHONSE PÉPIN, St. Jerome, Quebec, Canada. Filed Dec. 9, 1920. Serial No. 429,481. 5 Claims. (Cl. 244—29.)



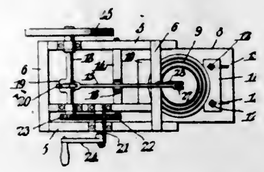
1. The combination with an aeroplane of wings, brackets carried by said wings, a groove in said brackets, a cable passing over said brackets and engaging the groove, a pulley engaging said cable, means for actuating the pulley and tilting the wings, and means for locking said pulley against movement.

1,382,315. HYDRAULIC PRESS. THEODORE F. PHILIPPI, East St. Louis, Ill. Filed July 18, 1919. Serial No. 311,855. 4 Claims. (Cl. 138—17.)



1. A hydraulic press provided with a ram, a high pressure pump and a low pressure pump whereby liquid under pressure is delivered to said ram, and means whereby said low pressure pump is rendered ineffective when the liquid pressure rises to a predetermined degree, said means comprising a pressure actuated valve communicating with the outlet of said low pressure pump, and a normally ineffective device whereby said pressure actuated relief valve is retained in its open position after it has been opened by the liquid pressure.

1,382,316. CHURN-OPERATING DEVICE. HENRY POAGE, Millpoint, W. Va. Filed July 2, 1920. Serial No. 393,532. 1 Claim. (Cl. 74—14.)

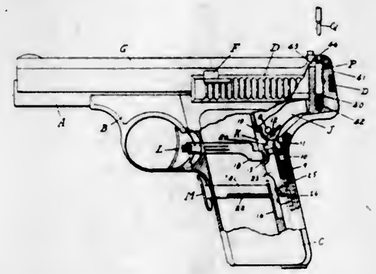


In a churn operating device, a frame including spaced parallel top rails horizontally disposed, an inner rail between said top rails in the same plane and parallel with the latter, the said inner rail being closed to one of said top rails than the other, a gear shaft supported between said inner rail and the adjacent top rail, a gear on said shaft lying between said inner and adjacent top rails, a crank shaft supported by the said inner rail and the remote side rail, a pinion on said crank shaft in the space between said inner rail and its adjacent top rail and in mesh with the said gear, a rock arm supported by said frame, a link connecting said crank shaft with one end of said rock arm, and means for connecting the other end of said rock arm with a churn dasher.

1,382,317. AUTOMATIC PISTOL. EDWARD S. POMEROY, Springfield, Mass., assignor to Smith & Wesson, Springfield, Mass., a Voluntary Trust Association. Filed Jan. 8, 1921. Serial No. 435,820. 8 Claims. (Cl. 42—3.)

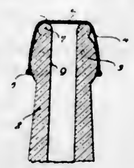
1. In an automatic pistol having in combination a movable breech block, a pivoted hammer arranged to be cocked by the breech block on its backward movement, a sear pivoted to the hammer and having a stop shoulder to rest on a fixed ledge in the frame, and a trigger adapted when pulled to engage said sear and push it off such ledge, the relative construction of hammer and sear with closely abutting shoulders adapted during the cocking movement to force the sear forward into position over such ledge,

and a spring engaging the hammer and sear acting to press forwardly against the sear and prevent rebound thereof



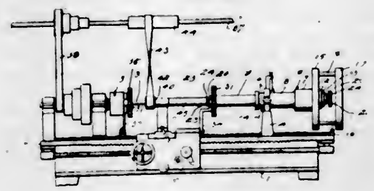
at the beginning of the return movement of the hammer and until the sear is seated on said ledge to hold the hammer cocked.

1,382,318. SANITARY BOTTLE-MOUTH GUARD. JESSE N. PRINGLE, Ortega, Fla., assignor of one-half to Will V. Strom, Jacksonville, Fla. Filed Mar. 6, 1920. Serial No. 363,635. 1 Claim. (Cl. 215—100.)



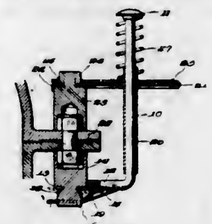
As a new and useful article of manufacture, a removable sanitary guard for the open mouth of a bottle; the said guard being formed of water proof paper and including a cylindrical wall, of comparatively large diameter at its lower end, and a thin flexible flange reaching inwardly at substantially right angles from the upper end of the cylindrical wall to be pressed and held by the lips and tongue of a drinker flat against a bottle-neck end and being of such width that its free edge will rest flush with the inner side of the orifice wall of the bottle neck, whereby said flange is enabled to prevent contact between the bottle-neck end and the tongue of a person and is also enabled to prevent passage of liquid between the bottle and guard.

1,382,319. CYLINDER-GRINDING DEVICE. GEORGE E. RHODES, Haxtum, Colo. Filed June 24, 1920. Serial No. 391,506. 8 Claims. (Cl. 51—43.)



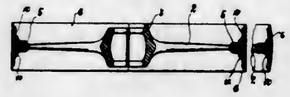
1. In combination with a lathe having a power driven chuck and a carriage, a housing secured to the lathe, a sleeve journaled in said housing, a second sleeve eccentrically mounted in the first sleeve, a shaft eccentrically mounted in said second sleeve, a grinding element secured to said shaft, means for rotating the shaft, and means for rotating the first sleeve by the chuck.

1,382,320. BOLT AND NUT HOLDER. ELMER RILEY and CLARENCE YUNCKER, Dodge City, Kans. Filed Mar. 2, 1920. Serial No. 362,728. 6 Claims. (Cl. 81—55.)



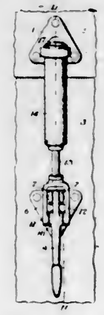
2. A device of the character described including confronting rotatable sockets, a support for the sockets and means on the support respectively operable for locking either of the sockets against rotation.

1,382,321. BELT-PULLEY AND SIMILAR DEVICE. JAMES TORSTEN SANDBERG, Gottenborg, Sweden. Filed Apr. 3, 1920. Serial No. 370,926. 4 Claims. (Cl. 64—18.)



1. In a belt pulley a cast iron web portion, a sheet iron rim encircling said web portion, brackets joining said rim to said web portion and cast in the web by means of angle bent ends.

1,382,322. HOOD-FASTENER. WILLIAM A. SCHLEICHER, Cleveland, Ohio. Filed Nov. 10, 1920. Serial No. 423,160. 5 Claims. (Cl. 292—113.)

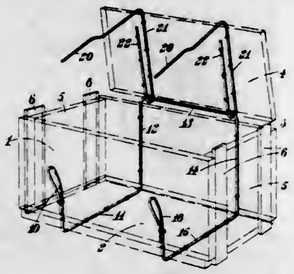


1. A fastener of the character described, comprising a barrel, a piston mounted therein, a compression spring coöperating therewith, means for closing the upper end of said barrel, a hook formed on said barrel adjacent the upper end thereof, a keeper adapted to be engaged by said hook, and operating mechanism connected to said piston for compressing said spring after said hook and said keeper are engaged, substantially as described.

1,382,323. WIRE-BOUND BOX. MAURICE EDWARD STAGG SECKER, London, England. Filed Apr. 1, 1920. Serial No. 370,597. 8 Claims. (Cl. 217—12.)

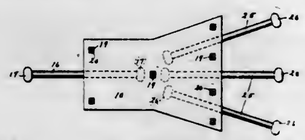
1. A wire-bound box having applied to a side member thereof a binding-element which (a) is in the form of a

single length of material constituting two substantially parallel binders, (*b*) has a portion bridging between said binders in the form of a long longitudinal span extending clear of the box-structure and acting in the region of each of its ends as a hinge-element for another box-mem-



ber, and (*c*) has its two free ends extending clear of the box-structure and shaped to engage a binding element on an adjacent box-member, combined with a second hinge-element and a binding element at other parts of the box-structure to engage respectively with the span and the free ends aforesaid.

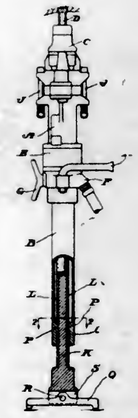
1,382,324. COUPLING. WILLIAM HENRY SIEFER, Wayland, Iowa. Filed May 22, 1919. Serial No. 298,870. 1 Claim. (Cl. 287—113.)



A coupling device, comprising counterpart one-piece clamping plates, each of said plates being wider at one end than the other, each of said plates being formed on its inner face with a longitudinal groove terminating in a transverse recess and opening to one end of said plate, and also with a longitudinal groove in line with and spaced from the first groove and opening to the opposite end of the plate and also formed at its inner end with a transverse recess, each of said plates also being formed at its wider end with end-opening grooves arranged on opposite sides of the longitudinal groove and at angles thereto and also terminating in transverse recesses, headed coupling pins adapted to be mounted in the grooves of said plates and project therefrom, each of said pins being formed with a head received in the recesses of said grooves, said plates also being formed with bolt holes on each side of each of said grooves, and between the recesses of the longitudinal grooves, and clamping bolts mounted through said bolt holes.

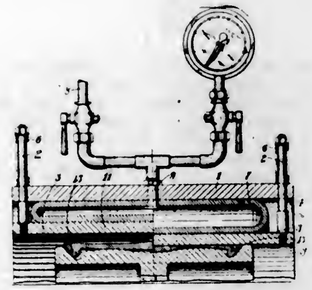
1,382,325. SUPPORT FOR ROTATING STOPE-DRILLS. FRED. M. SLATER, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,831. 2 Claims. (Cl. 121—9.)

1. In a fluid actuated rock drill, the combination of a drill cylinder casing provided with automatic rotation for the drill steel, a fluid operated feeding element comprising two telescopic members in slidable but relatively non-rotatable engagement, the drill cylinder casing being rigidly mounted on one member of the feeding element, and a non-rotating support transversely pivoted to the other member of the feeding element, said support comprising a transversely extending pivotal foot piece provided with beveled and sharpened rock engaging toes at each end extending rearwardly from the foot piece and outwardly at each side at opposite angles to the plane of the foot



piece in directions to resist any tendency of the drill cylinder and feeding element to bodily rotate backwardly in the reverse direction to the rotation of the drill steel.

1,382,326. PRESS. THOMAS SLOPER, Devizes, England. Filed Dec. 15, 1920. Serial No. 431,001. 8 Claims. (Cl. 18—17.)

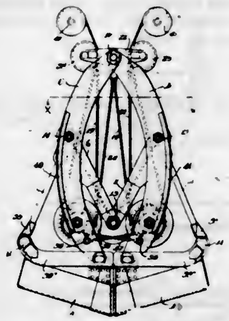


1. In a press, the combination of a sub-divided presser-plate for bearing against an article to be pressed, a thrust-plate situated on the side of the presser-plate remote from the said article for providing a purchase surface away from which the presser-plate can be advanced, an expansible chamber situated between said plates, which chamber comprises a flexible wall arranged to bear against the sub-divided plate, and means to admit fluid under pressure to said chamber, substantially as described.

1,382,327. WIDE-OPENING CLAM-SHELL BUCKET. CARL STENBOL, Sault Ste. Marie, Ontario, Canada. Filed Apr. 29, 1920. Serial No. 377,629. 9 Claims. (Cl. 37—30.)

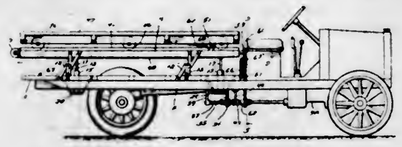
1. In a bucket of the character described and in combination, two bucket parts, supporting arms pivoted together and to the bucket parts, toggle levers pivoted to the supporting arms, links connecting the toggle arms with the bucket parts, an opening rope operatively connected to the end of the toggle levers, spools carried by the supporting arms, drums on the spools, and slings extending between the spools on opposite supporting arms

in such a way that when the spools are turned, the arms will be drawn closer together, and closing ropes oper-



atively connected to the drums and adapted when pulled to turn the drums and spools and cause the slings to draw the supporting arms together.

1,382,328. ADJUSTABLE AND REMOVABLE TRUCK-PLATFORM. WILLIAM LEE STONE, Kansas City, Mo., assignor to Great Western Commercial Body Company, Omaha, Nebr., a Corporation of Nebraska. Filed Aug. 11, 1920. Serial No. 402,866. 5 Claims. (Cl. 298—16.)



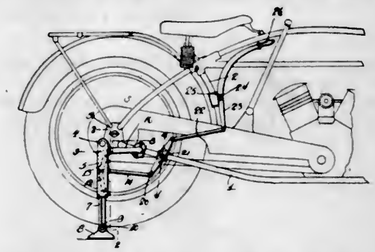
1. The combination with a truck chassis, of a frame provided with a plurality of supporting devices interposed between said frame and chassis, a platform removably supported on said frame, and means for individually adjusting said supporting devices for varying the height of said frame above said chassis.

1,382,329. COMPOSITION OF MATTER FOR USE IN THE FORMATION OF FIREPROOF AND INSULATING STRUCTURES. EDWARD R. STOWELL, Portland, Ind. Filed Nov. 5, 1919. Serial No. 335,811. 2 Claims. (Cl. 106—30.)

1. A composition of matter for use in the formation of fireproof and insulating structures, consisting of a mixture of cement and a filler comprising sodium silicate, powdered pumice, and wood particles, the sodium silicate constituting means for filling the pores of the wood particles and binding them together.

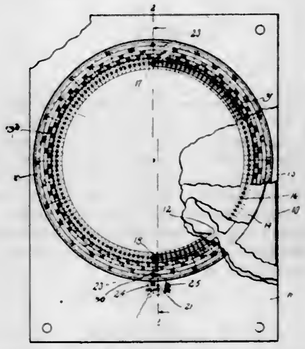
1,382,330. MOTORCYCLE-STAND. CARL J. SWENSON, Port Arthur, Tex. Filed Apr. 2, 1920. Serial No. 370,798. 2 Claims. (Cl. 208—78.)

1. A motorcycle stand comprising a sleeve fixed to the rear frame structure and having a slot extending longitudinally, a standard projected through the lower end of the sleeve, a pair of links joined together and having their opposite ends joined to the standard and upper end of the sleeve whereby the links may swing into and out of the sleeve through the said slot therein, a pull bar extended through the slot in the sleeve and connected to the connected ends of the links, and means to manually actuate the pull bar for actuating the links whereby the said standard may be drawn into the sleeve or projected beyond the end thereof, said links being arranged within the sleeve with respect to their pivotal connection with the standard and sleeve so that the connected ends of the links may be swung inwardly beyond the longitudinal



center and contact with the rear wall of the sleeve to serve as a lock for maintaining the standard in operative position until manually released.

1,382,331. COMPUTING DEVICE. JAMES THOMAS, Pittsburg, Kans., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1919. Serial No. 340,026. 2 Claims. (Cl. 235—78.)

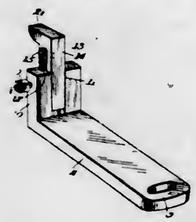


2. A computing device of the character described, comprising a back plate, a transparent face plate having a semi-circular slot formed therethrough, numbered graduations arranged in a circle of substantially the radius of said slot, a rotatable disk having openings arranged to coincide with said slot and to receive the point of an operating instrument and spaced to register with said graduations, said openings being engageable through said slot, one end of said slot constituting a setting point and a stop engageable by the instrument for limiting each computing movement of the disk, said disk further having diametrically opposite indicators thereon to coöperate with the graduations for indicating certain results, and one of which indicators is to initially register with said setting point, counter-operating fingers on said disk, a toothed rotatable counter adapted to be rotated by the passage of said fingers thereby, whereby a plurality of movements of said disk to add together two or more fractions, where the sum is equal to or greater than a digit, causes said counter to be rotated to show the whole number and the additional fractions being indicated on the graduations by one of said indicators beyond said stop.

1,382,332. JOURNAL JACK-BLOCK AND WHEEL-CLAMP. CHARLES O. VEST, Bluefield, W. Va. Filed Dec. 1, 1920. Serial No. 427,507. 3 Claims. (Cl. 254—33.)

1. A journal jack-block and wheel clamp, having a base-piece to support a lifting-jack, said base-piece pro-

vided at one end with an outwardly inclined upright having a longitudinal slot and grooves adjacent to said slot, a correspondingly inclined wheel clamp having a shank provided with longitudinal side flanges, the said



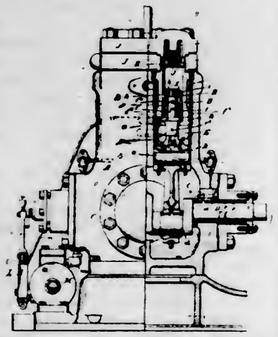
shank slidable in the slot and its flanges entering said grooves, a wheel-engaging lip projecting outwardly from the shank, and coöperating means on the upright and wheel clamp to hold the wheel clamp in adjusted position.

1,382,333. ROLLER-CAGE FOR ROLLER-BEARINGS WITH CONVEX ROLLERS. ERNST HJALMAR WALODDI WEIBULL, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Sept. 8, 1919. Serial No. 322,527. 2 Claims. (Cl. 64—62.)



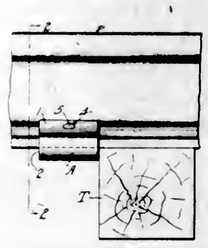
1. In a roller bearing, a roller cage, convex rollers arranged in the cage and provided with opposed flattened sides, and supporting means on the cage coöperating therewith to allow the rollers to oscillate in a lateral direction relatively to a plane perpendicular to the axis of the bearing, so that the axis of rotation of the rollers may obtain a sloping position relatively to the axis of the bearing in planes passing through the center line of the axis of the bearing, when the race rings are in their normal concentric position relative to each other.

1,382,334. FLUID-COMPRESSOR. LLEWELLYN WILLIAMS, Hollis, Long Island, N. Y., assignor to York Manufacturing Company, York, Pa. Filed Apr. 23, 1920. Serial No. 376,039. 2 Claims. (Cl. 230—27.)



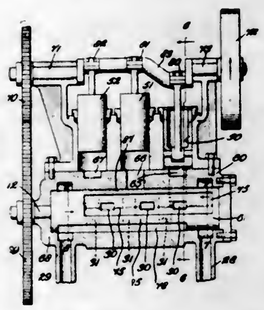
1. In a high pressure fluid compressor of inclosed type, the combination with the compressor cylinder, piston, suction and discharge valves, and gas tight crank case and crank shaft mounted therein, of a cross-head chamber of greater diameter than the compressor cylinder interposed between, and having a gas-tight connection with, said cylinder and crank case, and in free communication at all times on the one hand with the suction side of the compressor cylinder, and on the other hand with the interior of the crank case, a crosshead fitting and reciprocable in the crosshead chamber, and directly connected to the compressor piston, and driving connections between the crank shaft and the crosshead, substantially as and for the purposes hereinbefore set forth.

1,382,335. RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Aug. 15, 1916. Serial No. 115,030. 21 Claims. (Cl. 238—311.)



1. A rail anchor comprising in combination with the rail, an anchor element fillet welded thereto.

1,382,336. PUMP AND SIMILAR APPARATUS. HANS C. BEHR, New York, N. Y. Filed Oct. 25, 1919. Serial No. 333,202. 13 Claims. (Cl. 103—77.)

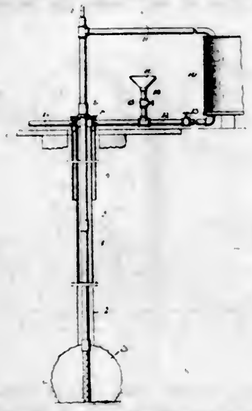


10. In an apparatus of the character described the combination of a plurality of cylinders each provided with a port; a valve casing having inlet and discharge passages; a balanced valve in said casing having a set of symmetrically and helically disposed inlet recesses and a set of symmetrically and helically disposed discharge recesses, said valve also provided with helically disposed port controlling valve faces separating said recesses; inlet means comprising an inlet chamber located in said casing with which said inlet recesses are always in communication; outlet means comprising an outlet chamber located in said casing with which said discharge recesses are always in communication; and a piston in each cylinder adapted to suck in fluid through said inlet recesses and forcibly discharge it through said outlet recesses, substantially as described.

1,382,337. METHOD OF CLEANING OIL-WELLS. GEORGE C. BELLIS, Butler, Pa., assignor of one-half to Thomas H. Brown, Butler, Pa. Filed Mar. 13, 1919. Serial No. 282,479. 4 Claims. (Cl. 166—21.)

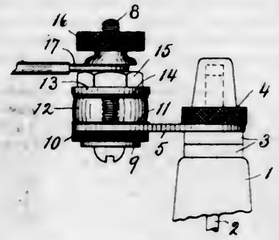
1. The method of cleaning oil wells comprising pouring a solution containing a caustic alkali free from acid into

the well, permitting it to remain as an alkali within the well for a sufficient time to loosen the oil impeding



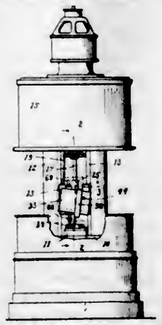
deposits formed on the walls thereof, and then pumping the solution together with the loosened material from the well, substantially as described.

1,382,338. INTENSIFIER. CORNELIUS J. BROSNAN, Springfield, Mass. Filed July 1, 1920. Serial No. 393,248. 6 Claims. (Cl. 175—183.)



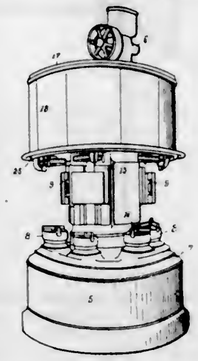
1. An intensifier comprising a metallic clip which is adapted to be attached to a spark-plug, a screw-threaded member extending through said clip and provided with attaching means for a conductor, and means to attach said member to said clip, and to insulate the same therefrom so that a spark-gap is formed between said member and said clip.

1,382,339. TOOL-SLIDE FOR MACHINE-TOOLS. EDWARD P. BULLARD, Jr., Bridgeport, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 7, 1919. Serial No. 295,325. 21 Claims. (Cl. 29—38.)



1. The combination with a movable saddle and a cross slide mounted thereon, of a reciprocatory rod, a positive locking device between the rod and saddle whereby the slide and saddle can be fed forwardly, means for causing crosswise movement of the slide, and means for releasing the locking device from the saddle to allow said before mentioned means to operate.

1,382,340. CONTROLLING MEANS FOR MACHINE-TOOLS. EDWARD P. BULLARD, Jr., Bridgeport, Conn., assignor to The Bullard Machine Tool Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 9, 1920. Serial No. 372,634. 6 Claims. (Cl. 29—38.)



1. The combination with a machine tool including a clutch through which the same is driven, an annular support, a series of balls positioned therein, a controller ring mounted on the balls and support, and connections between the ring and clutch for operating the same.

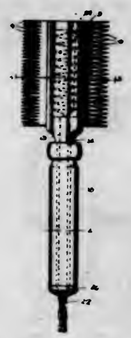
1,382,341. SPIRAL-GUIDE FIRE-ESCAPE. ALFRED WOOD BUTTERFIELD, Portland, Oreg. Filed Sept. 30, 1920. Serial No. 413,826. 1 Claim. (Cl. 227—28.)



In a device of the character described a flexible cable and a hand grip, said hand grip having an outer casing consisting of a pair of semi-cylindrical members, one of said semi-cylindrical members being formed with spaced apart obliquely extending slots in its walls at each end thereof, a core having a length equal to that of the casing and being formed with an arcuate recess at each end thereof and being fashioned to provide a spiral guideway extending the length thereof and adapted to receive the flexible cable, the end walls of said recesses being respectively alined with the side walls of the corresponding slots, and a spring member intermediately secured to the inner wall of the second of said semi-cylindrical members at each end thereof and having its ends arranged to enter said slots to re-act against the walls thereof to releasably and firmly clamp said semi-cylindrical members to one

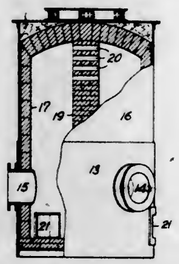
another, said spring members being positioned to abut against the end walls of said recesses to maintain said casing in adjusted position relative to said core.

1,382,342. COMB. JOSEPH PING CANEAVRI, Port Arthur, Tex. Filed Nov. 10, 1920. Serial No. 423,129. 5 Claims. (Cl. 34—26.)



1. A comb of the character described comprising a comb body or back having a row of inclined teeth along one edge and a row of oppositely inclined teeth along its other edge and provided with a central elongated cavity, a handle having a tubular shank and a pair of spring clamps adapted to embrace and engage the back and close the cavity thereof, a sleeve of insulated material arranged on the tubular shank, means for retaining the insulating sleeve on the handle, electric heating means arranged in the cavity of the back and conductors for supplying the electric heating element with current extending through the tubular shank.

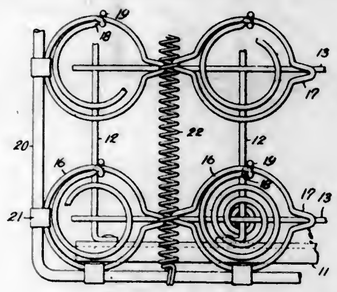
1,382,343. COMBUSTION-CHAMBER FOR SULFUR-BURNERS. FRED B. CHAPPELL, Glens Falls, N. Y., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y. Filed Apr. 20, 1920. Serial No. 375,391. 7 Claims. (Cl. 23—1.)



1. A combustion chamber for sulfur burners comprising an inclosing wall, inlet and outlet passages, and a baffle wall arranged out of normal to the inlet passage to impart a swirling motion to the incoming stream of gas.

1,382,344. SPRING-MATTRESS. RUDOLPH COOPERSMITH, Montreal, Quebec, Canada, assignor of one-half to Abraham Ruche, Philadelphia, Pa. Filed Dec. 19, 1919. Serial No. 346,032. 4 Claims. (Cl. 5—29.)

1. In a device of the class described, a rigid bottom frame comprising a grid formed of longitudinal and transverse members arranged on edge and let into one another, helical springs maintained in upright position on said frame, the members of the frame being apertured adjacent their intersection for the reception of the lower ends of the upright springs, a top frame and helical springs



stretched between opposite sides of said frame and connecting the uppermost convolutions of adjacent upright springs, said helical springs being arranged to hold the upright springs against revolution in the rigid body frame.

1,382,345. LINSEED-OIL SUBSTITUTE. MARC DARRIN, Wilkinsburg, Pa., assignor to Koppers Products Company, a Corporation of Pennsylvania. Filed Feb. 7, 1920. Serial No. 357,029. 12 Claims. (Cl. 134—56.)

1. A liquid mixture including a solution of heat polymerized coumarone resins in a solvent naphtha and a paint.

1,382,346. ROSIN SIZE SOLUTION. JUDSON A. DE CEW, New York, N. Y., assignor to Process Engineers, Inc., a Corporation of New York. Filed Apr. 10, 1919, Serial No. 289,126. Renewed Apr. 13, 1921. Serial No. 461,150. 6 Claims. (Cl. 134—21.)

5. A sizing composition having therein a drying oil, soap made from a drying oil, rosin and rosin soap.

1,382,347. SHAVING-BRUSH. BENJAMIN H. DE HAVEN, Pittsburgh, Pa. Filed Dec. 29, 1919. Serial No. 348,064. 1 Claim. (Cl. 15—50.)



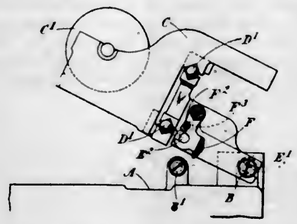
A device of the class described including a tank, a rod extending longitudinally of said tank, and provided with a bifurcated end portion, a collar integrally mounted upon said bifurcated end portion, a valve hingedly connected to said collar, said tank being provided with a bottom, a cylinder extending from said bottom running parallel with said tank, said collar provided upon said rod being adapted to slide within said cylinder, a partition provided in said cylinder, said partition having an opening, a valve hingedly mounted in said partition, and springs provided for normally holding said valves in a closed position.

1,382,348. WINDOW-FRAME. LAMMEAT ELENGA, Sterling, Nebr. Filed Mar. 14, 1919. Serial No. 282,675. 1 Claim. (Cl. 20—52.1.)



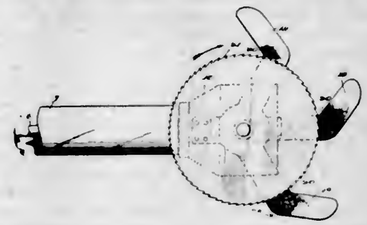
In a window construction, a frame provided with a window opening therein, a sash vertically movable in the frame, a main sill at the bottom of the frame, a drip sill at the bottom of the frame and spaced from the main sill to provide between the main and drip sills a passage for the sash when lowered out of the frame, a cap piece secured to the upper end of the sash and extending from opposite sides thereof to overlap said main and drip sills and close said passage when the sash is lowered and to provide a smooth surface over the lowered sash, and a shiftable auxiliary sill adapted to be advanced beneath the sash when raised to support the sash and close the passage between said sills, and adapted to be withdrawn from beneath the sash to admit the lowering of the same, said cap piece and said auxiliary sill having interlocking faces adapted for engagement with one another when the auxiliary sill is withdrawn to retain the sill from displacement, said auxiliary sill being adapted to close the space between the main sill and the cap piece when interpositioned between the same and when the sash is fully lowered.

1,382,349. TYPEWRITER WITH DETACHABLE PLATEN-CARRIAGE. HERBERT ETHERIDGE, Ealing, England, assignor to The Bar-Lock Typewriter Company, Limited, London, England. Filed Mar. 10, 1920. Serial No. 364,625. 6 Claims. (Cl. 197—60.)



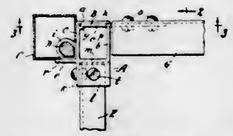
1. In a typewriting-machine, the combination of a base, a platen-carriage holder, rear supporting-means and front supporting-means each comprising a stud, and a jaw for detachably embracing the latter, provided one on said base and the other on said holder for detachably supporting said holder on the base, the axes of the studs being disposed parallel to the axis of rotation of the platen, the jaw of the rear supporting means allowing for slight backward and forward adjustment therein of the coöperating stud, and the stud of the front supporting-means being so mounted in the part carrying it that it can be adjusted in a vertical direction, and backward and forward of the machine, for the purpose described.

1,382,350. PRUNING-MACHINE. WILLIAM D. GLEASON, Central Point, Oreg., assignor of one-half to Edward H. Davis, Central Point, Oreg. Filed Mar. 16, 1920. Serial No. 366,252. 2 Claims. (Cl. 30—11.)



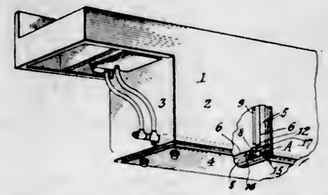
1. In a pruning machine, the combination of a rotary saw having its teeth disposed at an angle to its radius, and a non-rotatable guard mounted against one side of the saw and having fingers projecting radially beyond the edge of the saw, the extremities of said fingers being formed into hooks having concave surfaces presented to the points of the teeth of the saw.

1,382,351. CORNER-FASTENING FOR METAL BEDSTEADS. RUBIN GOLDBERG, Brooklyn, N. Y. Filed Nov. 8, 1920. Serial No. 422,480. 1 Claim. (Cl. 5—55.)



In a cast metal corner fastening for metal beds a hollow rectangular body part A, having four vertical walls, an exterior vertical wing piece *c*, projecting outwardly at right angles from one side of the body part, forming an angle adapted to embrace one corner of a rectangular corner post of a bedstead, a vertical slot opening *h*, in the wall of said hollow body part at the diagonally opposite corner from said wing *c*, said slot opening extending half way down from the top of said body part, a vertical rib *g*, projecting from the interior wall of said hollow rectangular structure positioned at a point opposite said slot opening and means for readily securing the said rectangular body part to one corner of a rectangular bed post and detaching same therefrom, and means for securing said body part to the side of a bedstead, substantially as shown and described.

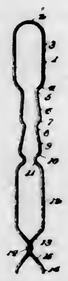
1,382,352. DRAIN FOR ICE-CREAM CABINETS. LEONARD G. GRAY, Decatur, Ill., assignor to Walrus Manufacturing Company, Decatur, Ill., a Corporation of Illinois. Filed June 4, 1920. Serial No. 386,593. 6 Claims. (Cl. 217—5.)



1. In a device of the character described, the combination with an ice-cream cabinet, of a metal channel, the side walls of which are flanged, longitudinal supports se-

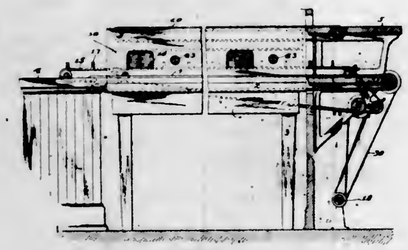
cured in the bottom of the cabinet upon which the flanges of the metal channel rest, a coat of asphaltum cement intermediate the bottom, side walls and flanges of the metal channel and the cabinet, a top for said channel formed of water-proofed wood, a metal lining in said cabinet having a plurality of openings in bottom wall, there being a plurality of openings in the top of the channel corresponding to openings in the metal lining of the cabinet, a lining of asphaltum cement which entirely covers the said metal lining, a copper lining adjacent the asphalt, having openings in the bottom which register with the openings in the channel, a cylindrical sleeve of smaller diameter than the said openings, having a circumferential flange mounted in said openings, said flange being brazed to the metal lining, an outlet plug for said openings, comprising a pipe, the length of which conforms to the height of the cabinet, a handle at the top end of said pipe, and a washer at the lower end thereof, which is fitted to the said cylindrical sleeve, there being openings in said pipe at a predetermined height.

1,382,353. HAIRPIN. ROLLIN L. GRAY, Eau Claire, Wis. Filed Mar. 6, 1920. Serial No. 363,715. 1 Claim. (Cl. 132—50.)



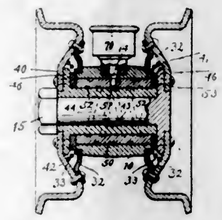
A hairpin comprising resilient legs having spaced parallel upper and lower portions and intermediate portions formed each with a series of bends, corresponding bends in the two intermediate portions being oppositely located, the spaces between the bends being relatively decreased in width in the direction of the free ends of the legs, and the free ends being formed into overlapping bends providing a throat having sharply divergent extremities engaging the hair for opening the throat on insertion of the pin.

1,382,354. DINING SERVICE APPARATUS. HARRY STEUBEN GREENBERG, Danville, Va. Filed Sept. 14, 1920. Serial No. 410,268. 23 Claims. (Cl. 186—1.)



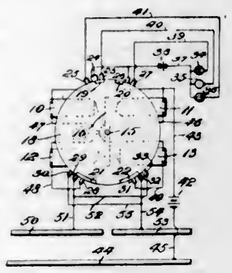
1. In an apparatus of the class described, a table having service places or stations, tray serving and returning conveyers running past said stations from and to the kitchen, and means under control of the patron or patrons for stopping and starting said conveyers.

1,382,355. WHEEL AND BEARING THEREFOR. ANTON F. GREINER, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed July 8, 1920. Serial No. 394,712. 7 Claims. (Cl. 64—24.)



1. The combination of a sleeve having a tubular cylindrical bearing and a wheel which is made of two separably connected sections and is provided with a hub which extends between said sections and is rotatably mounted in said bearing.

1,382,356. RELAY. GEORGE R. GUILD, U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Filed Sept. 26, 1919. Serial No. 326,518. 7 Claims. (Cl. 246—256.)



1. The combination with a railway track having a continuous rail and a broken or open rail, of a relay comprising four solenoids, two of which are oppositely disposed and are connected in series with one of the sections of the broken or open rail, the other two solenoids being oppositely disposed and connected in series with the other section of the broken rail, and an armature pivotally mounted between said solenoids and adapted to be attracted by either pair of connected members of said solenoids when the circuit between the continuous rail and either section of the broken rail is closed.

1,382,357. LATHING-SHEET. HANS CLAUSSON HANSEN, Copenhagen, Denmark. Filed June 10, 1919. Serial No. 303,115. 6 Claims. (Cl. 20—13.)



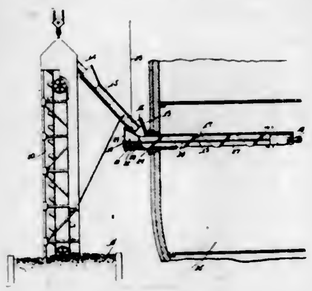
1. Lathing sheet comprising, in combination, parallel laths and a number of longitudinal wires disposed partly below and partly above the said laths so as to bind the latter together, the said upper wires forming loops in the spaces between the laths, the said loops being bent down below the said lower wires and forming hooks engaging said lower wires to hold the lath thereto in spaced relation.

1,382,358. WAIST. ANNA AMILIA HOGAN, Elmhurst, N. Y. Filed Nov. 8, 1919. Serial No. 336,539. 2 Claims. (Cl. 2—73.)



1. A waist including a central back portion and extensions projecting laterally from said back portion, each of said extensions having edge portions shaped to taper downwardly at converging angles when arranged on the body of the wearer whereby a front opening is produced converging downwardly from the neck and shoulders to a position adjacent the bust, said extensions below said opening being adapted to overlap each other; means for securing the extensions in their overlapped position below said opening, said edge portions of the extensions at a level above the bottom of said opening having draw string-engaging means thereon; and a draw string connected to said engaging means of each edge portion and extending across the bottom of said opening whereby said edge portions can be drawn toward each other to decrease the width of the bottom of said opening and to place tension upon the portion of said extensions covering the bust; substantially as described.

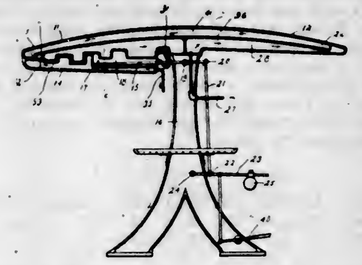
1,382,359. COAL-TRIMMING DEVICE. GEORGE B. HOLBERT, New York, N. Y. Filed Apr. 20, 1918. Serial No. 229,734. 3 Claims. (Cl. 193—13.)



1. A portable distributer comprising a unitary construction embodying a casing having an opening in its under side extending a considerable portion of its length, a hopper, a spiral conveyer extending from said hopper through said casing, and a motor connected to said conveyer in geared relation.

1,382,360. IRONING DEVICE. ARTHUR W. HUTCHINS, Cranston, R. I., assignor, by direct and mesne assignments, to Perry and Hutchins' Laundry Appliance Company Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 19, 1920. Serial No. 352,431. 10 Claims. (Cl. 223—17.)

1. An ironing device comprising an arm formed of two members, one member being movable relative to the other to adjust the working size of the arm, the operating surface of said members having intermeshing portions which

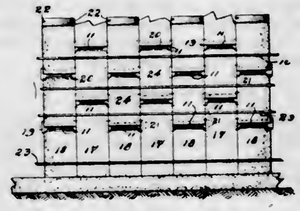


are flush with each other, and means for heating said members.

1,382,361. REFINING COPPER-NICKEL MATTE. NOAK VICTOR HYBINETTE, Christiania, Norway, and ROBERT LEE PEEK, Ottawa, Canada. Filed Feb. 25, 1920. Serial No. 361,275. 14 Claims. (Cl. 75—18.)

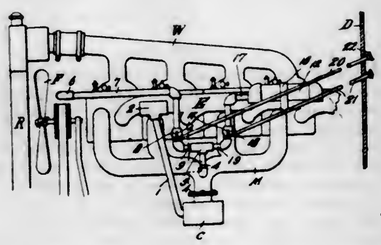
1. The method of purifying nickel-copper sulfate solutions from copper by cementation, which comprises bringing the solution into contact with an excess of finely divided nickel at a temperature below that of exhaustion of the nickel; substantially as described.

1,382,362. WALL STRUCTURE FOR CORN-CRIBS AND THE LIKE. JOHN H. IREY, West Liberty, Iowa. Filed Oct. 6, 1919. Serial No. 328,740. 2 Claims. (Cl. 72—6.)



1. A course building element for a directly ventilated wall comprising head portions and connecting air admitting vermin guard parts therebetween, said head portions having parts projected above and below said connecting portions.

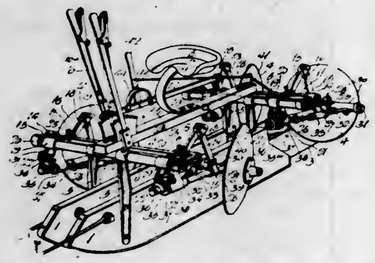
1,382,363. GAS AND AIR MIXER. GEORGE F. JACKSON, Byllesby, Va. Filed June 17, 1918, Serial No. 240,557. Renewed Apr. 7, 1921, Serial No. 459,308. 1 Claim. (Cl. 123—119.)



In an air feed for internal combustion engines, the combination with a jet nozzle directed into the inlet mani-

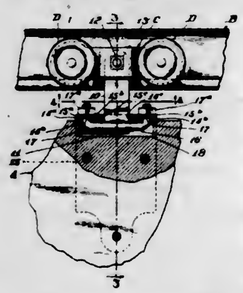
fold and a feed coupling whose shank is connected with the outer end of said nozzle, a pipe line leading from one arm of the feed coupling, an L coupling threadedly mounted upon the free end of said pipe line, a fan delivering air into said line, said coupling being turned so as to have its open end in the opposite direction from the rotation of said fan, a second pipe leading from the other arm of said coupling, a box adjacent the exhaust manifold and to which said second line is connected, independent valves in said line and manually operated means for controlling the valves.

1,382,364. LISTER-CULTIVATOR. LEWIS JACKSON, Simpson, Kans. Filed Mar. 13, 1919. Serial No. 282,270. 10 Claims. (Cl. 97—37.)



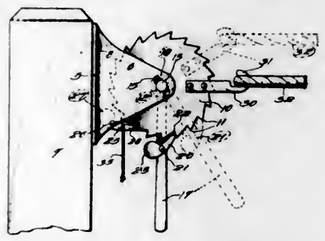
1. In a lister cultivator, a pair of wall-like runners adapted to straddle a row of sprouting plants, means for pulverizing the earth of the ridges alongside the row, throwing such earth inwardly, and piling it against the runners, whereby some of the pulverized earth may fall behind said runners around the plants; and a pair of disks adapted to be set to return the remaining pulverized earth to the ridges, said disks being reversible to throw such remaining earth farther inward around the plants when cultivating the second time.

1,382,365. DOOR-HANGER. ALBERT L. KEAN, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Dec. 2, 1920. Serial No. 427,808. 6 Claims. (Cl. 16—90.)



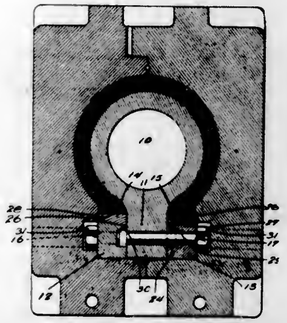
2. A door-hanger comprising in combination a wheeled carriage, a pendant connected at its upper end therewith, a cross-head connected with the lower end of said pendant and extending substantially parallel with the path of movement of the carriage and having upwardly-extending screw-threaded studs, the connection between the pendant and cross-head permitting a relative movement between them, a member adapted to be affixed to a door and extend over the upper edge thereof and above said cross-head, said member being provided with a slot for the passage of the pendant and with other slots for the reception of said studs, and a nut on each stud for locking the studs in different adjusted positions in said last-named slots.

1,382,366. ROPE-TIGHTENING DEVICE. ANNA C. KIENLEN, Aurora, Ill. Filed June 5, 1920. Serial No. 386,888. 2 Claims. (Cl. 254—164.)



1. A device of the kind described comprising a base from which are extended two ears in parallel and spaced relation, an axle pin mounted between the ears at a point remote from the base, a sleeve rotatably mounted on the axle pin and extending between the two ears, a wheel carried fast by the sleeve and spaced away from one ear, a lever having one end in the form of an eye loosely carried on the sleeve in the space between the wheel and ear and adapted to move only within a single plane, ratchet teeth arranged on the periphery of the wheel, a pawl mounted on the lever having its acting end in operative relation to the ratchet teeth, a second pawl mounted between the ears adapted to present its acting end against the ratchet teeth to insure a normal one way rotation of the wheel, and a hook secured to the wheel near its periphery and adapted to engage with a rope for tightening the same as the wheel is moved under the influence of the lever, substantially as described.

1,382,367. METHOD FOR BUILDING TIRES. KARL B. KILBORN, Akron, Ohio, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed June 13, 1918, Serial No. 101,561. Divided and this application filed June 29, 1918. Serial No. 242,642. 6 Claims. (Cl. 154—14.)



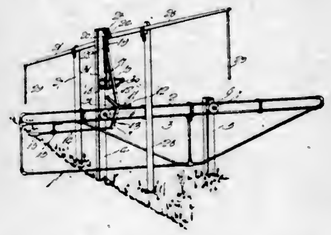
5. The method of manufacturing tire carcasses which comprises the following steps: (*a*) building up and stitching a carcass and bead portions; and (*b*) applying pressure outwardly and radially against the base face of the bead portions to stretch said base portions, and simultaneously exerting a wiping action circumferentially of the base face of the bead portions.

1,382,368. PROCESS OF MAKING FUSIBLE LINKS. LEROY M. LEWIS, Philadelphia, Pa. Filed May 6, 1920. Serial No. 379,253. 7 Claims. (Cl. 113—51.)

1. The process of making a plate for a fusible link which comprises the steps of forming a transversely extending offset in a metal blank, placing the blank in a die press and compressing said offset portion to form a flat portion angularly disposed relative to the body portion of the finished plate and connected thereto by a web of thickness substantially equal to that of said body portion.

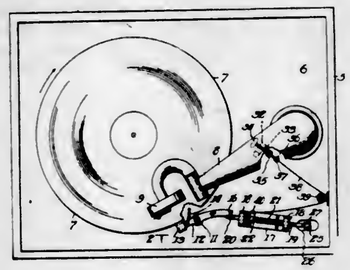


1,382,369. GATE-OPERATING MECHANISM. JOHN LIND, near Trakean, Idaho. Filed Aug. 6, 1920. Serial No. 401,639. 4 Claims. (Cl. 39—73.)



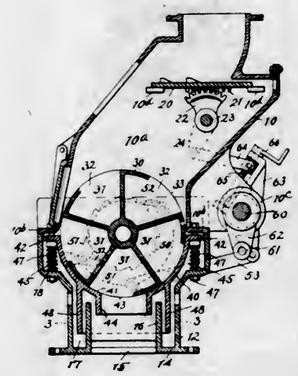
3. The combination of a gate, means including a post for supporting the gate, a bracket on said post, a toggle including a link pivoted to said bracket and a link pivoted to the gate, means for causing the first said link to swing over its bracket-connecting pivot and thereby sliding said gate toward its open position, a detent on said toggle, and a spring-pressed keeper supported by said bracket and including a detent-engaging portion approximately over said bracket-connecting pivot and being effective to engage and co-act with said detent for controlling said toggle.

1,382,370. PHONOGRAPH ATTACHMENT. OSCAR LINDHOLM, Chicago, Ill. Filed May 5, 1920. Serial No. 379,154. 4 Claims. (Cl. 161—23.)



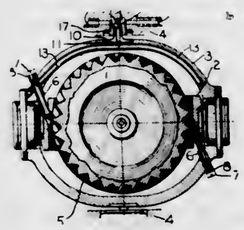
1. In a phonograph attachment of the character described, the combination with the turn-table of a phonograph, of a pivoted brake lever carrying a brake shoe cooperating with said turn-table, a spring normally acting to apply said brake shoe, a push rod adapted to engage with and swing said brake lever in a direction to retract said brake shoe from said turn-table, and an alarm clock having its hammer so located as to transmit its vibrations to said push rod and force the same into engagement with said brake lever.

1,382,371. FEED MECHANISM FOR GAS-PRODUCERS. JAY S. MCCLIMON and ROBERT WETHERILL, Jr., Cleveland, Ohio, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,715. 11 Claims. (Cl. 214—35.)



1. In fuel feeding mechanism, the combination of a fuel chute, a rotatable cylindrical pocketed fuel valve therein, a valve seat member having a substantially semi-cylindrical upper seating surface with which the lower part of said valve engages, which valve seat member has a downwardly directed discharge opening through its seating surface, springs yieldingly pressing said valve seat member up against said valve, and means to impart step by step rotary motion to said cylindrical valve.

1,382,372. GYROSCOPE. SCOTT B. MACFARLANE and LOUIS J. BARRY, Newport, R. I., assignors to the Government of the United States. Filed Apr. 30, 1918. Serial No. 231,742. 6 Claims. (Cl. 74—78.)

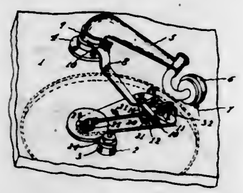


1. In gyroscope construction, in combination, inner and outer gimbal rings, a wheel mounted in one of said rings having tangential buckets in its periphery, and tangentially adjustable nozzles mounted in the outer ring adapted to direct the fluid jets into such buckets, said inner gimbal ring being notched on one side to permit free movement of said nozzles during the relative turning movement of said gimbal rings.

1,382,373. TALKING-MACHINE. WILLIAM C. MASON, Albany, N. Y. Filed Mar. 23, 1920. Serial No. 368,040. 8 Claims. (Cl. 192—116.)

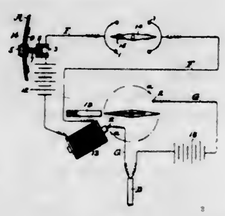
6. In a talking machine, the combination with the main driving hub of the machine, a brake shoe normally oper-

ating to stop the operation of the machine, means including a latch for anchoring said brake shoe out of machine arresting position, a friction wheel operatively connected with said driving hub, a crown gear on said friction wheel, a lead screw axially movable, a pinion on



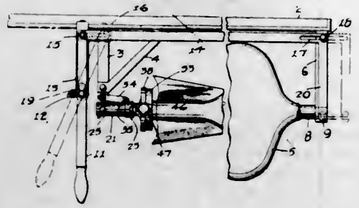
said lead screw in mesh with said crown gear, a rotary cam on said lead screw normally operating in a path of movement clear of said latch, and means for transmitting axial movement to said lead screw thereby to cause said cam to trip said latch and cause said brake shoe to arrest the operation of the machine.

1,382,374. METHOD AND MECHANISM FOR EXPLODING SUBMARINE MINES. HUDSON MAXIM, Hopatcong borough, N. J. Filed Aug. 30, 1917. Serial No. 188,933. 10 Claims. (Cl. 102—3.)



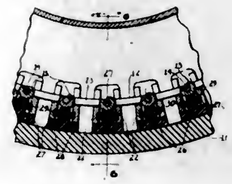
1. In a firing mechanism for an explosive, a magnetic needle, an electric circuit including an electro-magnet energized by the deflection of said needle, an armature, and another electric circuit including an exploder operable on the movement of the armature.

1,382,375. AERIAL TORPEDO AND LAUNCHING MEANS. JOSEPH MENCHEN, New York, N. Y. Filed Apr. 13, 1918. Serial No. 228,343. 25 Claims. (Cl. 244—1.)



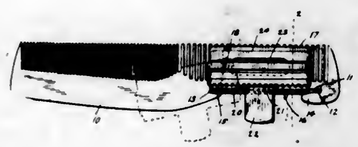
1. Launching means for aerial torpedoes comprising a hinged holder for one end of the torpedo, a withdrawal support for the opposite end, together supporting the torpedo horizontal, a shear pin uniting the torpedo and hinged holder, and means whereby downward swinging movement of the torpedo and hinged holder automatically causes the shearing of said pin.

1,382,376. RESILIENT TIRE. CLYDE S. MORSE, De Kalb, Ill., assignor of one-half to Stella S. Morse, De Kalb, Ill. Filed Sept. 20, 1920. Serial No. 411,532. 12 Claims. (Cl. 152—8.)



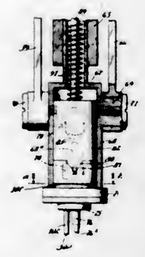
3. In a resilient tire, the combination with a circular casing, of a transversely jointed band located therein at a distance from its outer or tread portion, a segmental clamping jaw transversely mounted on the band on each side of each joint thereof providing a pair of spaced jaws at each joint, and a segmental tread member having an inwardly extended web of less width than its base interposed between the members of each pair of said jaws, the base of each of said tread members being interposed between the outer surfaces of the jaws and the said casing.

1,382,377. HAIR-CUTTER. WALTER G. MUSPRATT, San Francisco, Calif. Filed Feb. 4, 1920. Serial No. 356,189. 4 Claims. (Cl. 30—12.)



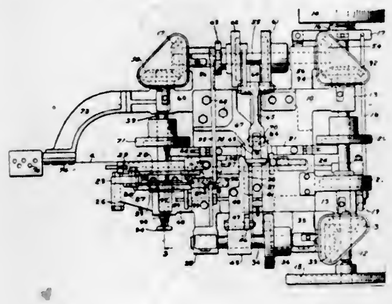
1. A hair cutting device including a cutting blade, a comb having a recessed guide and stop for the back of the clip, parallel with the ends of the teeth, and with overhanging flanges at the end of the guide, a clip consisting of opposed holding jaws and elastic compressing means and resilient pads, against which the jaws rest.

1,382,378. PERFORATING-MACHINE. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 14, 1919. Serial No. 310,690. 33 Claims. (Cl. 164—88.)



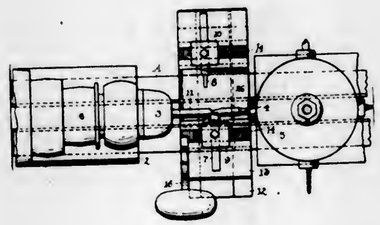
1. A machine of the class described having, in combination, a reciprocable punch carrier, a punch carried thereby, and a work feeding element mounted upon said punch carrier and movable therewith.

1,382,379. WIRE-FORMING MACHINE. MAURITZ OLSON, Bridgeport, Conn., assignor to The A. H. Nilson Machine Co., Bridgeport, Conn., a Corporation of Connecticut. Filed June 17, 1920. Serial No. 389,604. 9 Claims. (Cl. 140—130.)



1. The combination with wire cuttting and forming mechanism, of a wire feeding device including a reciprocatory slide, a wire gripping jaw pivoted thereon, a swinging arm also carried by the slide for operating the gripping jaw, an operating member supported independent of the slide and connected with the arm for operating the same, and means for moving the operating member bodily to and from the slide and in parallel alinement with the movement thereof.

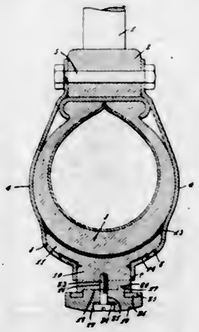
1,382,380. CROSS-SLIDE FOR LATHES. FREDERICK W. PARSONS, Cleveland, Ohio. Filed July 14, 1919. Serial No. 310,672. 4 Claims. (Cl. 82—25.)



1. In a lathe, a base plate, a reciprocable cross slide, having a central bottom recess closed at its sides, lever means adapted to reciprocate said cross slide, a stop member centrally of said base plate extending into said closed recess, separate adjustable stop screws within said cross slide extending into opposite ends of said closed recess on opposite sides of said stop member, a removable closure plate at one side of said recess, and separate tool holders mounted opposite each other upon said cross slide.

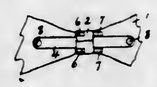
1,382,381. TIRE-ARMOR. MENDEL PIANKO, Chicago, Ill. Filed Feb. 26, 1920. Serial No. 361,465. 3 Claims. (Cl. 152—16.)

2. A device of the class described including a non-resilient housing, means for securing the housing to the rim of a wheel and around a tire mounted on the rim, radially movable tread members carried by the peripheral portion of the housing and normally pressed outwardly



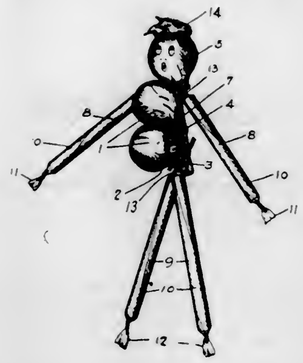
by the tire within the housing, and a flexible diaphragm connecting each of the tread members to the housing.

1,382,382. NECKTIE. THOMAS POLONUS, Youngstown, Ohio. Filed Mar. 5, 1921. Serial No. 449,998. 2 Claims. (Cl. 2—84.)



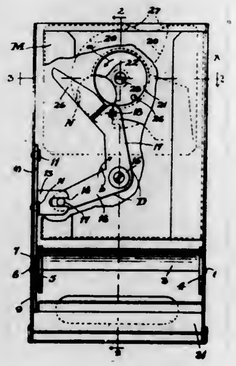
1. In a device of the class described, a slightly curved soft metallic plate, two centrally located side projections, two tongues formed at the edges of said side projections, each tongue being parallel to the soft metallic plate, a button secured at each end of said soft metallic plate, substantially as described for the purpose set forth.

1,382,383. WRAPPED CANDY DOLL. ADELAIDE M. PORTER, Greenwich, Conn., assignor to Huyler's, New York, N. Y., a Corporation of New York. Filed Nov. 13, 1920. Serial No. 423,833. 3 Claims. (Cl. 46—40.)



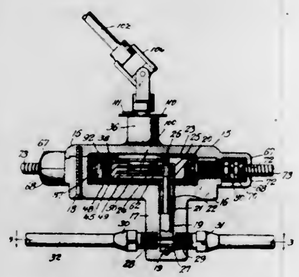
1. A wrapped candy doll comprising substantially round candies wrapped and arranged to form body and head portions, and candy sticks wrapped and secured to the body portion to form arms and legs.

1,382,384. COIN-CONTROLLED VENDING-MACHINE. EDWIN B. POTTS, Jersey City, N. J., assignor to Autosales Corporation, a Corporation of New York. Filed Apr. 11, 1918. Serial No. 227,856. 12 Claims. (Cl. 194—88.)



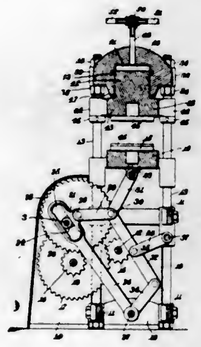
1. In a coin-controlled vending machine, delivery mechanism, a movable member adapted to cause operation of said mechanism when said member is moved from normal to full-operated position, a hand-operable coin-carrier for conveying the deposited coin into position to actuate said member part-way from normal to full-operated position, and means independent of said coin for actuating said member the rest of the way to full-operated position through the medium of said coin-carrier.

1,382,385. ELECTRIC SWITCH STRUCTURE. ERNEST W. PRIGAN, Indianapolis, Ind., assignor to H. C. Naylor and S. H. Keeney, Indianapolis, Ind. Filed Nov. 30, 1917. Serial No. 204,714. 2 Claims. (Cl. 200—42.)



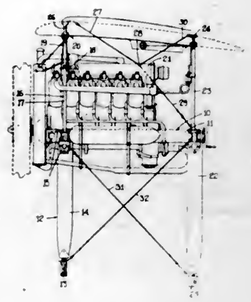
1. In a device of the character described comprising a two-part casing containing a circular chamber and a plurality of radially-projecting terminal-encompassing cups, each for inclosing an electric terminal; a circuit terminal within each cup, having a contact extending into the chamber; a rotatable member within said chamber, carrying connectors to connect said terminals in pairs, when rotated; operating means extending outside of the chamber to rotate said rotatable member and a permutation lock for connecting and disconnecting said operating means to said rotatable means.

1,382,386. HYDRAULIC TOGGLE-PRESS. GEORGE W. PROUTY, Milton, Mass. Filed Feb. 28, 1920. Serial No. 362,079. 20 Claims. (Cl. 25—98.)



8. In a machine of the class described, two movable cooperating members; a die on one member; toggle mechanism for moving one of said members toward the other; and hydraulic means for subsequently moving the second member toward the first-mentioned member.

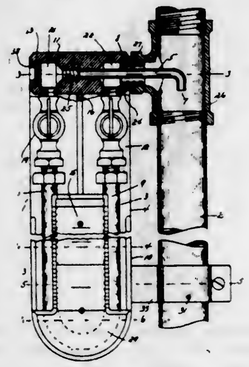
1,382,387. ENGINE-BED SUPPORT. CLAYTON L. ROLOSON, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Jan. 30, 1919. Serial No. 274,023. 8 Claims. (Cl. 244—14.)



1. In an airplane, a wing structure including superposed supporting surfaces, an engine bed mounted between the supporting surfaces, a support for the engine bed including a V-type strut having its legs continuously upwardly divergent beyond the horizontal plane of the engine bed, the V-strut being erected upon one of the supporting surfaces, and a motor mounted on the engine bed and extended horizontally between and beyond the upwardly divergent legs of the strut.

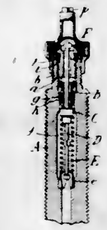
1,382,388. FLOW-INDICATOR. LLOYD D. ROYER, Highland Park, Mich., assignor to Sloan-Striker Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 2, 1919. Serial No. 269,282. 9 Claims. (Cl. 73—167.)

1. A flow indicator, comprising a body portion, a U-shaped tube lying adjacent to said body portion and having the base of the U extend therebeyond, a scale se-



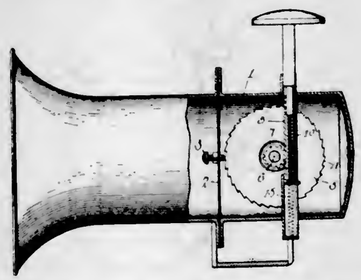
cured to said body portion adjacent to the legs of said U, and means upon said scale for protecting the base of the U.

1,382,389. PNEUMATIC VALVE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Sept. 11, 1915. Serial No. 50,120. 5 Claims. (Cl. 152—12.)



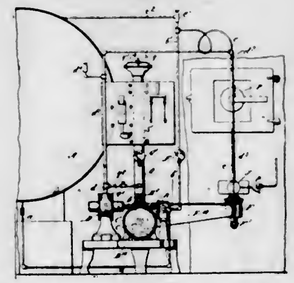
1. A valve comprising a tubular valve casing, a screw member with a cooperating check adapted to be screwed into and out of the valve casing, said screw member having a manipulating portion extending beyond the end of the casing when in place, said projecting portion lying close to the end of the casing, whereby either a cap or a pump coupling may engage the end of the casing, combined with a screw part having a thread adapted to engage the end of the casing, and having secured therein an internal packing gasket adapted to engage both the end of the casing and said manipulating portion.

1,382,390. MECHANICALLY-ACTUATED HORN. GEORGE J. SEISS, Toledo, Ohio. Filed Mar. 11, 1918. Serial No. 221,604. 2 Claims. (Cl. 116—144.)



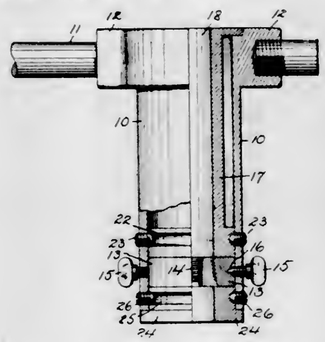
1. In a signal, a body having apertures in alinement in its side wall and apertures in the wall at each side of one of the first mentioned apertures, a guide in the first mentioned apertures, tongues integral with the sides of the guide inserted in the second mentioned apertures from above and embracing the body between the second mentioned apertures and the guide, the said body of the guide and the said tongues bearing against the upper surface of the body whereby the body sustains the strain due to operation, signal actuating means operating in the guide, and a sounder moved by the actuating means.

1,382,391. MEANS FOR SECURING FUEL COMBUSTION. JOHN A. SHERMAN and WILLIAM H. SHEPPARD, Worcester, Mass. Filed Sept. 9, 1919. Serial No. 322,670. 5 Claims. (Cl. 158—36.)



5. In a heating system, a fuel reservoir, a burner tank, a fuel pump located between said reservoir and said tank, a valve casing comprising a chamber, a float valve located in said chamber, fuel-carrying connections between said reservoir, said pump and said chamber, and controlled by said valve, a fuel-carrying connection between said chamber and said tank, a burner located on said tank and a compressed air system connected to said burner and the upper part of said tank and said chamber and adapted to feed said burner with fuel and atomize it, and to maintain a pressure on the upper surface of the fuel in said tank and said chamber greater than the normal pressure of said feul.

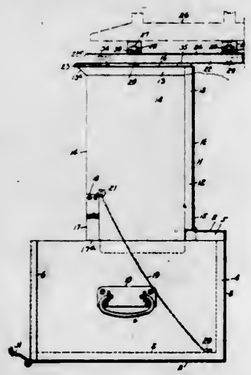
1,382,392. STOCK AND DIE. IRVING C. SHUSTER, Newark, N. J. Filed Mar. 13, 1920. Serial No. 365,388. 3 Claims. (Cl. 10—123.)



3. An improved stock and die comprising an elongated stock, a long insert inside the stock and extending for a major portion of its length, the insert having a bore and having a peripheral groove, screws passing through the walls of the stock with their ends in the grooves, a second and smaller stock having a bore alined with the bore in the first mentioned insert, the second insert having a peripheral groove, screws passing through the walls of the stock with their inner ends in the grooves, a die fitting between the ends of the inserts and having indenta-

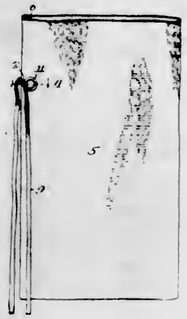
tions in its periphery, screws passing through the walls of the stock and entering the indentations, and a handle projecting laterally from the end of the stock opposite the end at which the die is placed.

1,382,393. CONVERTIBLE BOX AND STAND. ARTHUR W. SMITH, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 24, 1918. Serial No. 236,286. 9 Claims. (Cl. 45—52.)



3. A combined typewriter packing box and writing support comprising two connected parts which when in closed relationship fully inclose the typewriting machine and when brought into open relationship are automatically interlocked against closing and provide a stand which at one side is open and entirely unobstructed beneath the top on which the writing machine is adapted to rest, the open side affording access to a space partly inclosed by the other three sides which provide a support for the top both at its front and back.

1,382,394. COIN-BAG. ROBERT SPURGIN, Chicago, Ill. Filed Sept. 20, 1916. Serial No. 121,132. 2 Claims. (Cl. 150—11.)



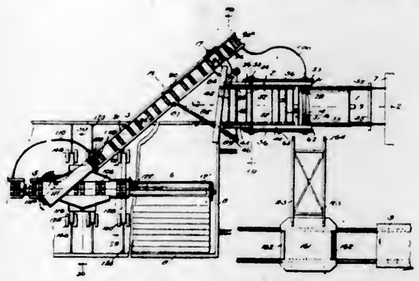
1. A coin bag of textile or similar material having a longitudinal seam at one side thereof, the free edges of the material extending inwardly from said seam, and a metal eyelet extending through said free edges and through the adjacent plies of the bag so as to provide a permanent reinforced opening adjacent to one edge of the bag adapted to receive a closing cord or tape.

1,382,395. WELL-SHOOTING-TORPEDO APPARATUS. ALBERT G. STOOPS, Indianapolis, Ind. Filed Nov. 15, 1920. Serial No. 424,126. 10 Claims. (Cl. 102—4.)



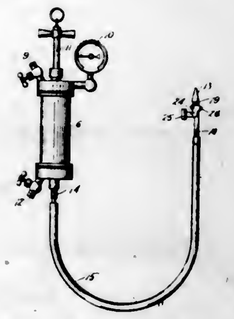
1. A well-shooting torpedo including a hollow cylindrical shell, a bottom and a non-metallic guard arranged together face to face opposite to one end of the shell, the guard extending outward beyond the bottom, clamping means to secure the bottom and the guard together to the shell, and a top part secured to the opposite end of the shell.

1,382,396. LUMBER-HANDLING MACHINE. JOHN RAYMOND SZYMANSKE, Somers, Mont. Filed June 26, 1917. Serial No. 177,021. 14 Claims. (Cl. 214—6.)



1. A lumber handling device, including a tie receiving table, anti-friction chain tie supports resting on said table, and means located independently of the table for sustaining portions of said chain supports, and enabling adjustment thereof.

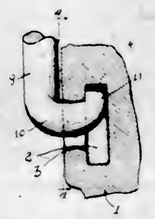
1,382,397. APPLICATOR. JOHN N. WHITEHOUSE, New York, N. Y. Filed July 11, 1919. Serial No. 310,039. 2 Claims. (Cl. 18—3.5.)



1. In a device of the kind described comprising a casing, a piston within the casing, means for introducing

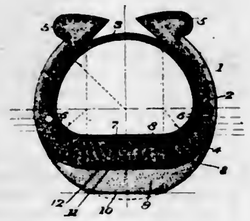
fluid under pressure into the casing at one side of the piston, means for introducing semi-liquid or plastic material into the casing at the other side of the piston, an exit opening from the casing at the last-named side of the piston, means for moving the piston in the opposite direction to that in which the fluid pressure drives the piston, a conduit connected to the exit opening aforesaid, an applicator at the end of said conduit, said applicator having a discharge opening, and a plunger valve controlling said opening.

1,382,398. MOLD CONSTRUCTION. JOEL A. WILDROUDT, Akron, Ohio. Filed Jan. 10, 1921. Serial No. 436,061. 7 Claims. (Cl. 18—1.)



1. A vulcanizing mold having an undercut recess in its outer periphery, adapted to have an interlocking rotary engagement with a lifting device.

1,382,399. RESILIENT TIRE. JOSEPH S. WILLIAMS, Riverton, N. J. Original application filed Jan. 19, 1911. Serial No. 603,552. Divided and this application filed Dec. 15, 1917. Serial No. 207,233. 4 Claims. (Cl. 152—18.)



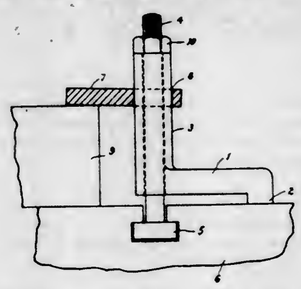
1. A tire having a tension belt in circular formation inwardly of the major transverse axis of the tire in cross section and in flattened arch formation outwardly of said axis, said tension belt having combined in its flattened arch formation annular reinforcements of tensile material to limit under working conditions of internal pressure and load within definite ranges the inward and outward movements of the flattened arch formation and the lateral movements of the side walls of the tension belt, and a tread outwardly of said tension belt.

2. A tire having a tension belt in circular formation inwardly of the major transverse axis of the tire in cross section and in flattened arch formation outwardly of such axis and in proximity to it, said tension belt having combined in its flattened arch formation annularly and transversely disposed reinforcements of flexible tensile material contributing under operative conditions of load and internal pressure to restrain circumferential and transverse elongation of such flattened arch formation, a tread outwardly of the tension belt and means within said belt to maintain it in tension when under load.

3. A tire having a tension belt in circular formation inwardly of the major transverse axis of the tire in cross section and in flattened arch formation outwardly of such axis and in proximity to it, said tension belt having combined in its flattened arch formation an annularly and transversely disposed metal member contributing under operative conditions of load and internal pressure to restrain circumferential and transverse elongation of such flattened arch formation, a tread outwardly of the tension belt, and means within said belt to maintain it in tension when under load.

4. A tire having a tension belt in circular formation inwardly of the major transverse axis of the tire and in flattened arch formation outwardly of said axis, with flexible tension material transversely disposed in the flattened arch formation, in combination with flexible tensile material extending as an annular reinforcement in vulcanized combination with said flattened arch formation, and a tread encircling the flattened arch formation.

1,382,400. CLAMP. L D ROSS, Elyria, Ohio. Filed June 13, 1919. Serial No. 304,046. 4 Claims. (Cl. 90—59.)



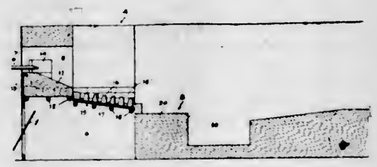
1. In devices of the class described, a lever arm having a fulcrum adapted to rest on a support, a member extending from said lever arm, a second lever arm having one end loosely engaging said member and the other end resting on the article to be clamped, and means for pressing said member toward said support to bind the first mentioned arm on said member and clamp the article in position.

1,382,401. DENTAL INSTRUMENT. DANIEL ANTON ZURBRIGG, Milford, Del., assignor to The L. D. Caulk Company, Milford, Del., a Corporation of Delaware. Filed May 21, 1918, Serial No. 235,843. Renewed Sept. 17, 1920. Serial No. 410,961. 6 Claims. (Cl. 32—10.)



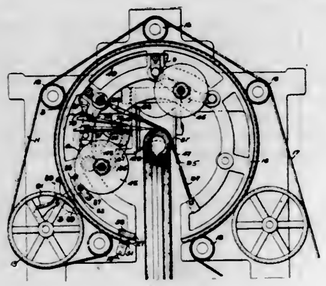
1. An instrument for packing filling material into occlusal posterior-teeth-cavities, having correlative larger and smaller trapezoidal packing faces, each of whose greater dimensions is transverse and whose dimensional ratio is 4:3.

1,382,402. OIL-FURNACE FOR BOILERS. GEORGE C. ADAMS, San Francisco, Calif. Filed May 22, 1920. Serial No. 383,350. 8 Claims. (Cl. 158—1.)



1. An oil burning furnace including a burner, a floor having a downwardly inclined surface below the burner and extending in front of the burner, and another downwardly inclined surface extending from the first surface, said latter surface having a plurality of upwardly opening air intake openings therein.

1,382,403. WRAPPING-MACHINE. EDWARD H. ANGIER, Framingham, and WILLIAM M. WHEILDON, Ashland, Mass.; said Wheildon assignor to said Angier. Filed May 19, 1917. Serial No. 169,773. 32 Claims. (Cl. 242—6.)



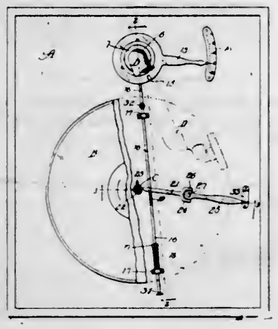
1. A machine of the class described comprising, in combination means for supporting an article, strip-serving means coöperating therewith and means utilizing the motion of said parts to sever the strip.

1,382,404. SCHOOL-DESK. JOHN D. ATKINSON, Plain, Wash. Filed June 29, 1920. Serial No. 392,618. 10 Claims. (Cl. 155—188.)



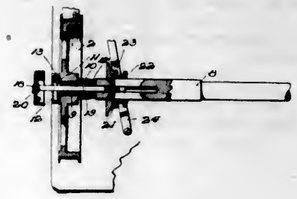
1. In a school desk, a screen wall raised from the desk surface at two adjoining sides thereof, and adapted when used with like screen walls on adjoining desks, to shut off the view of the pupil upon all sides.

1,382,405. AUTOMATIC STOP FOR PHONOGRAPHS. WALTER J. BAKER, Chicago, Ill. Filed Feb. 26, 1918. Serial No. 219,247. 4 Claims. (Cl. 192—116.)



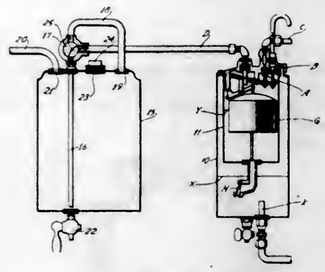
1. In an automatic stop for phonographs, a tone-arm, a hub-part, a bearing ring therefor, a gage-ring loosely mounted on said hub-part, a friction disk bearing on said gage-ring, and a clamping collar bearing on said disk and adjustable on the tone-arm.

1,382,406. RESILIENT CLUTCH FOR PHONOGRAPHS. GEORGE W. BEADLE, New Rochelle, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Apr. 20, 1918. Serial No. 229,824. 5 Claims. (Cl. 192—67.)



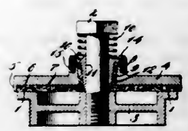
4. In a clutch, the combination with a member having teeth, of a spring-metal disk having a strip pressed out at an angle to the plane of the disk, means carried by the free end of the strip for engaging the aforesaid teeth and means backing the disk on the side remote from the aforesaid teeth.

1,382,407. AUXILIARY FUEL-TANK. CLIFFORD G. BRANIGAN, New York, N. Y. Filed Oct. 28, 1920. Serial No. 420,097. 4 Claims. (Cl. 158—46.5.)



1. The combination with an automobile having a main fuel supply tank, a vacuum feed tank containing a float, and an engine, of a closed auxiliary fuel tank, a connection between the main tank and the auxiliary tank, and a connection between said vacuum tank and said auxiliary tank, including manually operated means by which the suction of said vacuum tank may be applied at will either at the top of said auxiliary tank or at a point near its bottom.

1,382,408. PUMP-VALVE. JOHN H. BULLEN, Lakewood, Ohio. Filed Aug. 19, 1920. Serial No. 404,548. 4 Claims. (Cl. 251—144.)



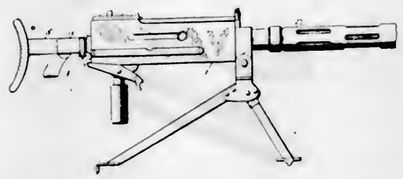
1. In a pump valve, the combination with a valve seat, of a valve casing movable toward and from said seat, said casing being provided with a peripheral flanged portion, a valve positioned in said casing and having its periphery abutting said flanged portion, a collar projecting from said valve, and means for securing said collar to said casing.

1,382,409. BIPOD REST FOR FIREARMS. JOHN S. BUTLER, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Jan. 30, 1919. Serial No. 274,075. 7 Claims. (Cl. 42—94.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



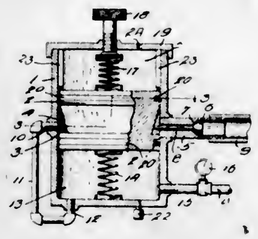
1. In combination with a machine rifle, a rest therefor having a clamp detachably engageable with the rifle barrel, an inverted U-shaped traverse bracket vertically pivoted to said clamp, a transversely hinged bracket carried by the traverse bracket, a pair of normally diverging legs longitudinally pivoted to the hinged bracket, and foldable spacing links between said legs in position to normally hold the legs in a spread relation.

1,382,410. DETACHABLE STOCK FOR FIREARMS. JOHN S. BUTLER, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Apr. 19, 1919. Serial No. 291,367. 4 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



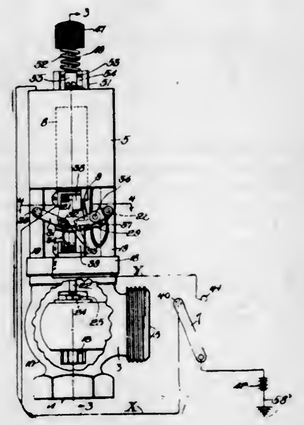
1. A gun stock, including a tubular shank split longitudinally for a portion of its length, a shoulder rest secured to the shank, and means encircling the shank for binding the stock in place upon the gun.

1,382,411. PRESSURE-REDUCING GAGE. GEORGE M. BYRNE and WILLIAM M. SIBLEY, Lincoln, Nebr. Filed Apr. 10, 1920. Serial No. 372,749. 6 Claims. (Cl. 50—35.)



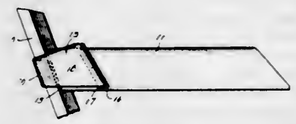
1. In a pressure reducing gage for reducing high pressure gases to a desired low pressure, the combination of a casing, a piston longitudinally reciprocable in said casing, springs bearing against opposite sides of the piston, means for adjusting the tension exerted by one of said springs, an annular beveled groove encircling the piston, an intake port disposed opposite said groove, a pressure reducing valve mounted in said port and having its stem bearing against the beveled surface of the grooved portion of the piston to enable movement of the piston to adjust the size of the valve opening, a conduit opening out of the opposite side of the casing and in communication with the annular chamber formed by the groove in the piston, said conduit extending to and opening into the chamber in the casing below the piston, and means for the outflow of gas at reduced pressure from said chamber.

1,382,412. ELECTROMAGNETIC VALVE. JAMES H. CAMPBELL, Cambridge, Mass. Filed Nov. 1, 1918. Serial No. 260,745. 18 Claims. (Cl. 137—139.)



1. An electro-magnetic valve comprising a valve, an electro-magnet, and an armature, the valve and armature mounted for vertical movement in the same line, the armature movable in said line beyond its neutral position in the magnetic field in opposite directions, direct connections for opening and closing the valve by said opposite movements of the armature, and means for deënergizing the magnet as the armature reaches its neutral position when moving in either direction.

1,382,413. TOOL-HOLDER. BENJAMIN THOMAS CARSON, Rensselaer, N. Y. Filed Mar. 9, 1920. Serial No. 364,406. 9 Claims. (Cl. 29—100.)

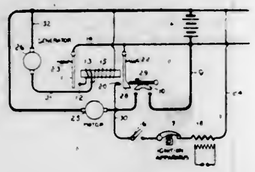


1. In a tool holder, a shank, an angular outer end provided with a vertical groove, a yoke member adapted to be supported from said end of the shank to constitute a tool receiving socket, and means formed respectively on the yoke and the side faces of said end of the shank adapted to co-act upon relative vertical adjustments to vary the size of the tool receiving socket.

1,382,414. IGNITION SYSTEM. FARNUM F. DORSEY, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 13, 1918. Serial No. 22,098. 3 Claims. (Cl. 290—37.)

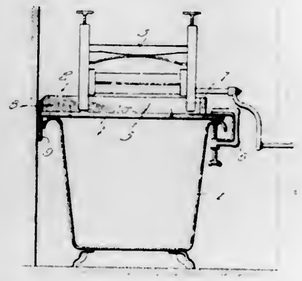
1. The combination, with an engine-starting electric motor, a storage-battery, a generator for charging the

battery, and electric ignition-apparatus, of means, including a relay, for connecting the generator in charging-circuit with the battery; said relay having a winding connected with and energized by the generator, and two armatures, one controlling said charging-circuit and the second controlling the connection betweeen the ignition-apparatus and the battery; means, including a starting-



switch, for connecting the motor with the battery; and manually-operable means acting mechanically on said switch and said second relay-armature, whereby the starting-switch may be closed and said second armature moved to closed-circuit position simultaneously.

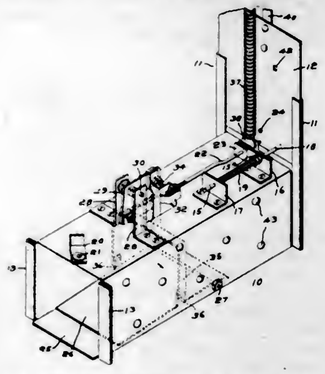
1,382,415. CLOTHES-WRINGER ATTACHMENT FOR BATHTUBS. RICHARD DOWSE, Chicago, Ill. Filed Sept. 25, 1919. Serial No. 326,138. 1 Claim. (Cl. 68—32.)



An attachment for supporting a clothes wringer on a bath tub comprising a horizontal base board adapted for transverse disposition on a tub, a centrally disposed vertical wringer board carried by the base board and having one of its ends flush with one end of the base board and its opposite end spaced from the opposite end of the base board, a transverse cleat disposed at the last named end of the wringer board, a plate composed of a thin piece of metal, said plate being perpendicularly disposed and secured to the flush ends of said boards, a portion of said plate extending above the base board and a portion extending below the bottom of said board, said last named extended portion being adapted to be disposed between a wall and the rim of the tub, and means for fastening the opposite end of the base board on the tub.

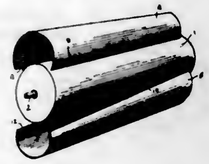
1,382,416. RAT-TRAP. FRANK G. DRESSER, Providence, R. I. Filed Sept. 14, 1920. Serial No. 410,226. 6 Claims. (Cl. 43—61.)

1. A rat trap comprising, in combination, a hollow body portion provided with open ends for the free passage of rats into, through and out of the trap, a door for automatically closing one end of the body portion, a bolt operable to lock the door in the open position to permit the rats to pass through the trap freely, latch mechanism for holding the door in its open position when the door is unlocked and the trap is set, said bolt operable independently of the latch mechanism for securing the door in either open or closed position, a manually controlled



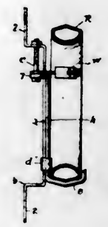
closure for closing the other end of the body portion, and means within the body portion operable by the rat to trip the latch mechanism and close the door.

1,382,417. TYPEWRITER DEVICE. MILLARD EDMUNDSON, San Francisco, Calif. Filed Feb. 26, 1920. Serial No. 361,433. 1 Claim. (Cl. 197—144.)



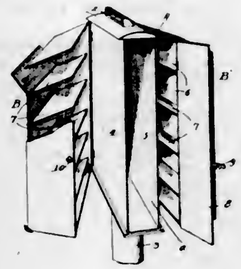
As an article of manufacture, a plurality of matching semi-cylindrical metallic surfaces formed to spring over the platen of a typewriter or the like, and providing a smooth, hard, cylindrical surface thereon, the surface having proximate edges on a line angular with the platen axis, whereby relative axial movement of the surfaces will vary the inclosing cylindrical diameter, as and for the purposes set forth.

1,382,418. COMBINED BRACKET AND HANGER FOR RADIATORS. JOHN W. FARLEY, Cleveland, Ohio. Filed July 13, 1920. Serial No. 395,927. 4 Claims. (Cl. 248—30.)



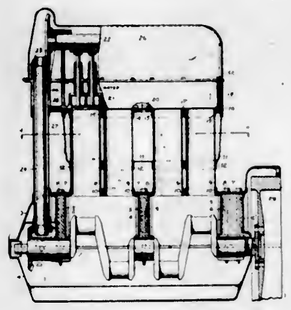
2. In a combined bracket and hanger for radiators, a bracket and a hanger for the radiator adjustably secured on the face of the bracket, a clamp to secure the radiator to the bracket comprising a spring wedge adapted to enter between the folds of the radiator and a clamping screw therewith and means to secure the said hanger and the said screw to the upper end of the bracket, and a keeper engaging the lower end of the hanger and bracket slidably together.

1,382,419. MAIL-BOX. ERNEST T. FRY, Baltimore, Md., assignor to Jacob M. Moses, Baltimore, Md. Filed Aug. 11, 1920. Serial No. 402,796. 3 Claims. (Cl. 232—24.)



1. A mail receiving and delivery box comprising a receiving compartment having side walls and having an open end, a delivery compartment hinged to said receiving compartment and having a plurality of lock boxes, open at their inner sides and adapted to be closed by a side-wall of the receiving compartment, a door for closing the end of the receiving compartment, and means for locking said delivery compartment and said door in closed positions.

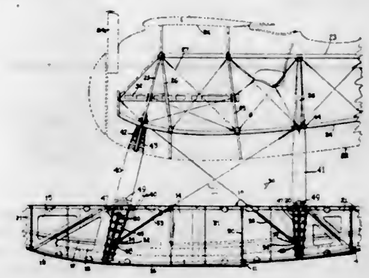
1,382,420. INTERNAL-COMBUSTION ENGINE. GEORGE B. FULLER, Cleveland, Ohio. Filed Feb. 10, 1919. Serial No. 276,145. 16 Claims. (Cl. 123—173.)



1. An engine for air machines constructed with separate cylinders drawn from sheet metal and a single water jacket for all said cylinders drawn from sheet metal having an integral bottom with flanged openings sleeved upon and permanently secured to said cylinders about their middle lower portion, a single plate having walled openings in sleeved engagement with the upper ends of said cylinders and with said jacket and a valve receiving and water circulating head removably mounted over said cylinders.

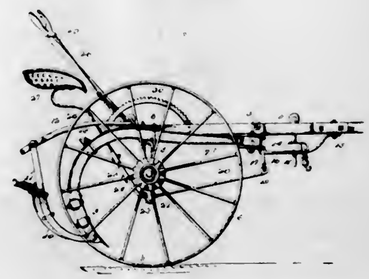
1,382,421. HYDROAIRPLANE LANDING-GEAR. WILLIAM L. GILMORE and JOSEPH F. MEADE, Roosevelt, N. Y., assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 10, 1918. Serial No. 257,657. 16 Claims. (Cl. 244—2.)

1. A landing gear for hydroaircraft comprising a float, a plural number of struts, the struts being arranged one aft of the other in the longitudinal vertical plane of the fore and aft axis of the float, socket fittings extended



deep into the float to receive the lower strut-ends, and brace wires extended angularly out from the socket fittings to brace the float against laterally directed shocks.

1,382,422. CULTIVATOR. GROVER T. GOODWIN, Crawford, Colo. Filed July 19, 1920. Serial No. 397,160. 3 Claims. (Cl. 97—35.)



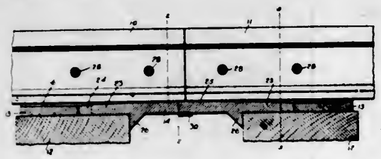
2. In an agricultural implement, the combination of a main frame comprising a draft tongue and a cross beam secured thereto, ground-treating members connected to said cross beam, an arched axle connected to the frame and said members, ground wheels mounted on said axle, means for swinging the axle whereby to raise or lower the ground-engaging members, a hanger suspended on the axle, a seat-supporting bar extending across and secured to said hanger, and a link connecting the front end of said seat-supporting bar with the main frame.

1,382,423. AMUSEMENT DEVICE. WALTER C. HADLEY, New York, N. Y., assignor to Central Talking Machine Shop, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1920. Serial No. 404,966. 5 Claims. (Cl. 46—40.)



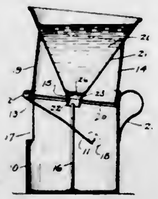
1. An amusement device, comprising a panel adapted to rest upon the white keys of a piano, the representation of a head on said panel extending from the upper jaw to the top, the upper jaw being located at the base line of the panel and being of substantially the same width as the white key of a piano.

1,382,424. RAIL CONNECTING AND SUPPORTING MEANS. JOHN HENRY JENNINGS, Georgetown, Conn. Filed Apr. 20, 1921. Serial No. 462,896. 5 Claims. (Cl. 238—210.)



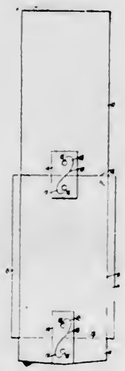
1. Means for connecting and supporting the meeting ends of a pair of rails comprising chair members adapted to be secured upon adjacent ties, a bridge member having the opposite extremities thereof interengageably associated with the chair members, and angle bars secured to the opposite sides of the rail ends and interengageably associated with the bridge plate.

1,382,425. MOUSETRAP. SAMUEL M. KASS, Philadelphia, Pa. Filed July 31, 1919. Serial No. 314,543. 8 Claims. (Cl. 43—58.)



1. A trap for mice, etc., comprising a fixed container, a movable fluid holder, a catch supporting the holder, a valve in the holder and means operative by reason of the fall of the holder for opening the valve when the catch is moved and the holder falls.

1,382,426. SHIPPING-TAG ENVELOP. CHARLES P. KLEEBAUER, Brooklyn, N. Y., assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y., a Corporation of New York. Filed Aug. 8, 1917, Serial No. 185,052. Renewed Aug. 31, 1920. Serial No. 407,219. 4 Claims. (Cl. 229—74.)

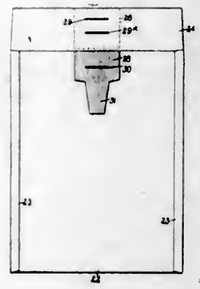


1. An envelop as characterized embodying a body portion, a back portion, a flap portion, and side seams; reinforcing patches adhered to said envelop where the back and body portion, and the flap and body portion are folded; and means for attaching a tying cord to said envelop, said means embodying perforations formed in said patches, said perforations being adapted to aline when the patches are folded with the body and flap portions of the envelop, and an S-shaped slit connecting said perforations.

3. An envelop as characterized embodying a body portion, a back portion, a flap portion, and side seams; reinforcing patches adhered to said envelop where the back and body portion, and the flap and body portion are folded; and means for attaching a tying cord to said envelop, said means embodying perforations formed in said patches, said perforations being adapted to aline when the patches are folded with the body and flap portions of the envelop; and an S-shaped slit connecting said perforations, said slit having entrance terminals forming passageways for admitting tying cord to said perforations, said entrance terminals entering said perforations at the side thereof farthest removed from the line of the fold in the patches and associated envelop structure.

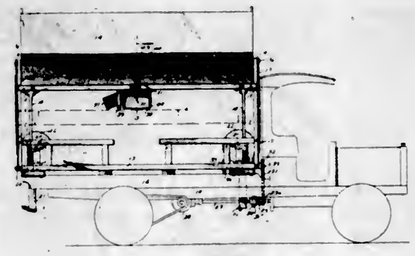
4. An envelop as characterized embodying a body portion, a back portion, a flap portion, and side seams; reinforcing patches adhered to said envelop where the back and body portion, and the flap and body portion are folded; and means for attaching a tying cord to said envelop, said means embodying perforations formed in said patches, said perforations being adapted to aline when the patches are folded with the body and flap portions of the envelop, and an S-shaped slit connecting said perforations, said slit having entrance terminals forming passageways for admitting tying cord to said perforations, said slit corresponding in shape at opposite sides of the longitudinal median line of said patches, to locate the hook-shaped sections formed by said slit at opposite sides of said median line when the envelop is folded as set forth.

1,382,427. CLASP-ENVELOP. CHARLES P. KLEEBAUER, Brooklyn, N. Y., assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y., a Corporation of New York. Filed Aug. 8, 1917, Serial No. 185,051. Renewed Oct. 14, 1920. Serial No. 417,018. 2 Claims. (Cl. 229—84.)



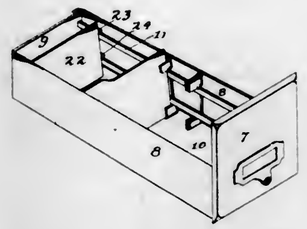
1. The combination of an envelop having back, body, and flap portions, said flap portion covering the opening in said envelop when overlaid thereon, a plurality of reinforcing patches, one of said patches being adhered to said flap portion and one to said back portion, said patches and the parts structurally connected therewith having elongated slots adapted to register when the flap is moved to its closure position, the patch attached to said flap being further provided with a second slot, and a tongue integrally connected with the patch having the single slot, said tongue being adapted for extension through all of said slots to form a closure-locking member.

1,382,428. ELEVATING COAL-TRUCK. ANTON KUKIELSKI, Jersey City, N. J. Filed Nov. 26, 1919. Serial No. 340,806. 1 Claim. (Cl. 298—7.)



A vehicle of the class described including a body, a longitudinally disposed chute beneath the body, a laterally disposed chute beneath the body adjacent to the first chute, said body having a discharge outlet at the bottom thereof, common to both of said chutes, a transversely movable gate controlling communication between the first chute and said discharge outlet, a separate and independent transversely slidable gate controlling communication between said discharge outlet and the second-mentioned chute, vertically disposed levers fulcrumed on the body at the upper ends of said lever, at the exterior, at opposite sides thereof, handles on the levers at their lower ends, laterally disposed connecting rods secured at their inner ends to said gates and extending transversely beneath the bottom of the body to the opposite sides of the body, and links outside of the body and connecting said rods at their outer ends with said levers between the ends of the levers.

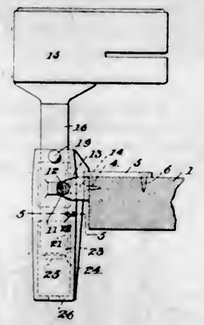
1,382,429. FILING-DRAWER AND CARD-HOLDER. FREDERICK E. KUNKEL, Washington, D. C. Filed Oct. 20, 1919. Serial No. 331,787. 7 Claims. (Cl. 129—14.)



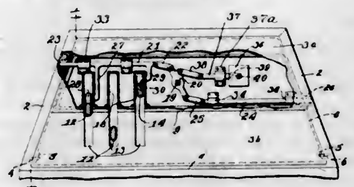
3. In a filing drawer, a member parallel and adjacent to each side of the drawer and having a track, a member disposed beneath each of said first named members, and spaced from the bottom of the drawer, a holder for a guide card adapted for insertion between each of the members and the adjacent side of the drawer, and card supporting means on said holders.

1,382,430. MOUNTING FOR MEASURING-MACHINES. GEORGE B. KYLE, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 14, 1919. Serial No. 317,419. 4 Claims. (Cl. 211—12.)

4. In apparatus of the class described, the combination of a fixed bracket having a socket, a portable measuring machine holder constructed to fit into the socket, said bracket having a keeper recess, and a lock permanently carried by the portable holder controlled by a removable key, and having a bolt for engaging the keeper recess to lock the holder in the socket.

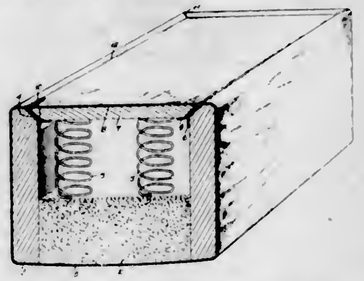


1,382,431. AUTOMOBILE-LOCKING APPARATUS. ALBERT B. LANG, St. Louis, Mo. Filed Aug. 11, 1919. Serial No. 316,721. 7 Claims. (Cl. 70—126.)



1. In an automobile locking apparatus, the combination of a floor frame and a removable floor-plate having slots, operating levers for the automobile extending through the slots, and each capable of assuming a neutral position, latching mechanism carried on the underside of the floor-plate, including a bolt for engaging the frame at one side and having means for obstructing the movement of the operating levers of the automobile while in their neutral position, said latching mechanism also including a second bolt for engaging the frame at the other side and cooperating with the first named bolt to prevent the removal of the floor-plate, a hand-operated part mounted to rotate in the floor plate on an axis substantially at right angles thereto, for simultaneously operating both of said bolts, and a lock for locking said hand-operated part against operation.

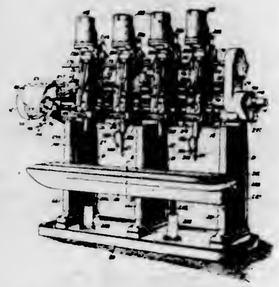
1,382,432. BOX-BED-SPRING CONSTRUCTION. BENJAMINE LEVINE, Brooklyn, N. Y. Filed Nov. 11, 1920. Serial No. 423,411. 4 Claims. (Cl. 5—13.)



2. A box bed-spring construction comprising a frame having an open bottom, outwardly facing tapered surfaces

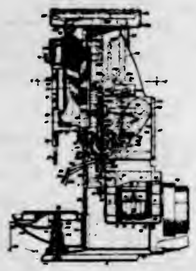
along the edges of the bottom, a closure portion provided with corresponding tapered surfaces adapted to fit into and bear against the tapered surfaces of the bottom, and a cover portion having its ends extending over the edges of the bottom and adapted to be gripped between the frame and the closure portion.

1,382,433. INDEPENDENT FEED RAIL DRILL. WILLIAM FRANCIS MCCARTY, Defiance, Ohio, assignor to Defiance Machine Works, Defiance, Ohio, a Corporation of Ohio. Filed Oct. 3, 1919. Serial No. 328,202. 8 Claims. (Cl. 77—22.)



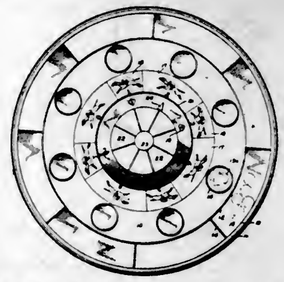
1. In a rail drill, a rail, a plurality of spindle heads adjustably mounted on the said rail, a drill spindle mounted in each spindle head, a variable speed mechanism, a variable feed mechanism, the said spindle heads being located intermediate the said speed mechanism and the said feed mechanism, speed driving connections connecting the said speed mechanism with the several drill spindles, and feed driving connections connecting the said feed mechanism with the several spindles, the said speed mechanism having a shaft common to the said speed driving connections and the said variable feed mechanism.

1,382,434. MULTIPLE-SPINDLE DRILLING-MACHINE. WILLIAM F. MCCARTY, Defiance, Ohio, assignor to Defiance Machine Works, Defiance, Ohio, a Corporation of Ohio. Filed Dec. 6, 1919. Serial No. 342,953. 14 Claims. (Cl. 77—32.)



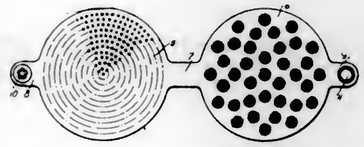
1. In a multiple drilling machine, a main support, a spindle head mounted to slide up and down on the said main support, a vertical drive shaft journaled in the said main support, a connecting gear arranged in the said spindle head and connecting the said drive shaft with the drill spindles, a vertical feed screw journaled in the said main support and screwing in the said spindle head to raise or lower the latter, a vertical food shaft journaled in the said main support, a gearing connecting the said feed shaft with the said feed screw, and a variable automatic feed mechanism connected with the said feed shaft and driven from the said drive shaft to rotate the said feed shaft first at a high speed to quickly advance the drill spindles to the work, to then rotate the feed shaft at a reduced working speed and to finally rotate the feed shaft at a high return speed to return the drill spindles quickly to starting position.

1,382,435. GAME APPARATUS. ROBERT A. G. MCCOY, New York, N. Y. Filed Dec. 9, 1920. Serial No. 429,424. 2 Claims. (Cl. 46—21.)



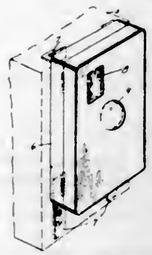
1. A game apparatus comprising; a bonrd having a series of outer compartments adapted to hold counters, an annular series of receptacles radially inward from said compartments to receive deposited counters as the game is played, an annular series of designated areas radially inward from the annular series of receptacles, and a turnable indicating device within the annular series of counting areas.

1,382,436. MASSAGE-TOOL. HENRY MALM, New York, N. Y. Filed Jan. 28, 1920. Serial No. 354,560. 1 Claim. (Cl. 128—62.)



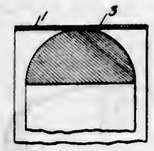
A device of the character described comprising two substantially circular disks, an integral contracted portion connecting said disks, a projecting tab integral with each of said disks, the tab of each disk being disposed diametrically opposite its point of connection with the contracted portion, and means carried by said tabs and adapted for interengagement whereby the disks are adapted to be secured together in spaced relation to permit of the insertion of the hand of the operator.

1,382,437. CAMERA ATTACHMENT. WILLIAM CALVIN MASON, New York, N. Y. Filed Apr. 7, 1920. Serial No. 372,028. 1 Claim. (Cl. 161—26.)



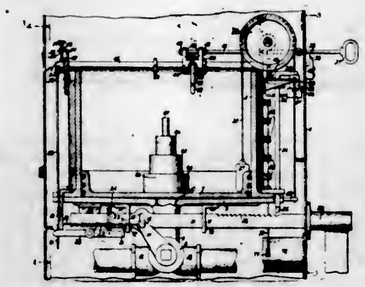
A camera attachment, including a housing formed with openings alining with one another and with the lens opening of a camera, a movable plate formed with notched portions, the body of said plate normally covering said housing openings, said plate being formed with a shoulder, a lever formed with an inturned end, said inturned end being adapted to engage said shoulder, an electromagnet, an armature controlled by said electromagnet and having its outer end secured to the opposite end of said lever, a source of energy within said housing, a spring tending to move said plate to pass said notched portions past the lens opening, a time controlled device also within said housing, and means adapted to coöperate with said time controlled device to close the circuit through said magnet whereby to permit said plate to rotate.

1,382,438. METHOD OF COATING FINGER-RINGS. BERNARD MESTECHKIN, Washington, D. C. Filed Oct. 5, 1920. Serial No. 414,798. 1 Claim. (Cl. 29—160.6.)



The method of coating finger rings with platinum, which consists in forming a platinum strip of a length, when bent into annular form, to encircle and bear against the periphery of the ring, then bending said strip into hoop form around the ring, then soldering the hoop and ring adjacent the contacting portions thereof, then spinning said hoop over the periphery of the ring so as closely to hug the same and conform to the curvature thereof, then soldering the edges of the platinum hoop inside of the ring, thereby firmly uniting said band to said ring and forming an integral structure.

1,382,439. FLUID-MEASURING MACHINE. SIDNEY FITZHUGH MIOTON, New Orleans, La. Filed June 15, 1917. Serial No. 174,880. 31 Claims. (Cl. 221—103.)



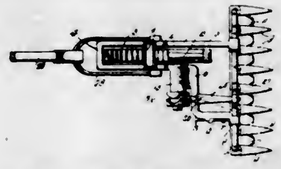
6. In a fluid measuring machine, a measuring cylinder, a manually opening and mechanically closing valve having a port communicating with the interior of the measuring cylinder, a piston in the measuring cylinder, a manually actuated, spring controlled operating bar connected with the valve for opening the latter, means to prevent the movement of the bar in one direction after it is once operated to open communication with the interior of the measuring cylinder, and means to prevent a movement of the bar in the other direction during the period that the piston is beyond a predetermined point in the measuring cylinder.

1,382,440. YIELDING TERMINAL CAP FOR DRY-BATTERY CELLS. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Original application filed Sept. 20, 1919, Serial No. 325,211. Divided and this application filed Feb. 28, 1921. Serial No. 448,690. 3 Claims. (Cl. 240—8.5.)



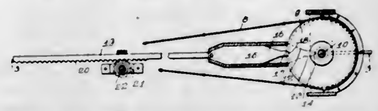
1. A yielding terminal-cap for dry-battery cells, consisting of an inverted cup formed with a yielding integral contact-arm overhanging the upper face of the cup.

1,382,441. LAWN-MOWER. HARMAN L. RICHENDIFER, Bladen, Nebr. Filed July 13, 1920. Serial No. 395,920. 3 Claims. (Cl. 56—248.)



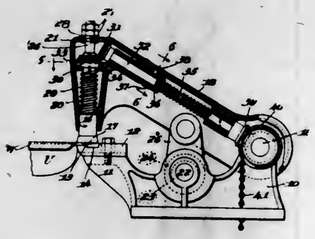
3. In a lawn mower a single traction wheel, a U-shaped yoke suspended from the wheel axle and disposed parallel to the ground, and having its intermediate portion located behind said wheel, said yoke terminating in a pair of forwardly projecting arms, a cutter supported on the forward ends of the arms, a vertically disposed inverted U-shaped straddling yoke integral with the first-mentioned yoke and straddling the wheel, a handle having a bifurcated end straddling the last-mentioned yoke and connected thereto and means supported on one of the forwardly projecting arms operatively connecting the traction wheel and the cutter.

1,392,442. RUDDER-LOCK. FREDERICK HARRISON ROGERS, Arlington, N. J. Filed Oct. 16, 1920. Serial No. 417,371. 1 Claim. (Cl. 114—172.)



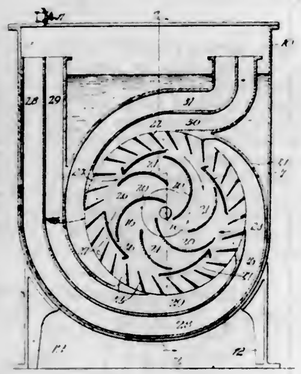
A rudder lock, including in combination with the rudder post of a vessel and drum attached thereto, of a member slidable toward said rudder post and adapted to extend into a recess formed in said drum for preventing a rotation of said rudder post, said slidable member being formed with a wedge-shaped forward end, the recess in said drum being formed with inclined side walls corresponding to said wedge shaped end, the wedge shaped portion of said slidable member being continued in a straight portion, the inclined side walls of said recess terminating at a point short of a point at which they would intersect, and being continued in the form of parallel extending side walls.

1,382,443. WELT-BEATING MACHINE. AUGUST R. SCHOENKY, Somerville, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed July 15, 1919. Serial No. 311,038. 3 Claims. (Cl. 12—67.2.)



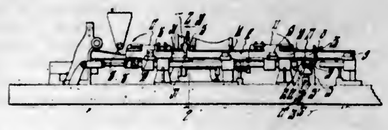
3. A welt beating machine comprising an anvil, a beater vibratable above the anvil, a vibratable arm carrying the beater, means for vibrating the arm, and means for adjustably rotating said beater, the beater having a circular flat face interrupted by a single tapered rib extending from its center to periphery.

1,382,444. SUCTION-CREATING APPARATUS. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Mar. 27, 1919. Serial No. 285,488. 9 Claims. (Cl. 230—14.)



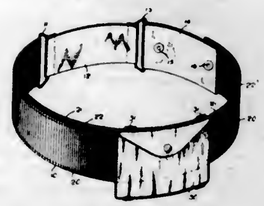
1. An apparatus of the character described embodying a casing provided with a volute chamber having an inlet and a discharge outlet for the liquid, a rotor within the chamber, said rotor embodying a series of impellers, a second series of impellers encompassing and spaced from the first recited series, a conduit having a plurality of outlets in communication with the space between the said series of impellers, a baffle arranged adjacent each of the outlets of the said conduit, the ends of each baffle terminating short of the respective proximate ends of the next adjacent baffles, and means whereby the rotor may be actuated to deliver the liquid from one set of impellers to the other set and between the ends of the baffles.

1,382,445. WRAPPING-MACHINE. ELMER L. SMITH, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 5, 1920. Serial No. 363,423. 9 Claims. (Cl. 93—2.)



1. In a wrapping machine in combination, a wrapping channel having a side with sharpened ridges extending longitudinally thereof, and a pusher for advancing partially wrapped articles along the said channel in contact with said ridges.

1,382,446. GARTER. LILLIAN G. WARREN, Westwood, Calif. Filed Dec. 28, 1920. Serial No. 433,620. 2 Claims. (Cl. 241—5.)



1. A garter, comprising an elastic padded leg band formed of two elastic webbings and a padding between the webbings, the padding being formed of a gathered piece of inelastic textile material, a connecting member attached at one end to the said leg band, and fastening means detachably connecting the free ends of the said leg band and connecting member with each other.

1,382,447. BORING AND THREADING TOOL. DANIEL DOOLITTLE WELLS, Burkburnett, Tex. Filed Oct. 15, 1919. Serial No. 330,842. 5 Claims. (Cl. 29—96.)

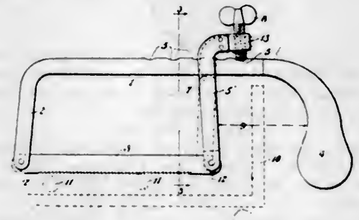


1. A tool holder having a shank, a head at one end of the shank axially alined therewith and having a lengthwise bore extending therethrough at one side of its axis and a slot for its full length extending therethrough from one side of the bore whereby to divide the same into two parts connected by a web at the opposite side of the bore, said shank being cut away at the rear of the head to the depth of the slot whereby one part of the head will be resilient with respect to the other part and the shank, and a tool adjustably mounted in the resilient part of the head.

1,382,448. HACKSAW-FRAME. GEORGE H. WILKINS, Greenfield, Mass. Filed Oct. 23, 1920. Serial No. 418,880. 4 Claims. (Cl. 145—34.)

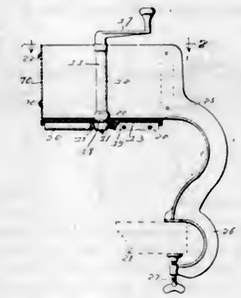
4. A hack saw frame construction, having in combination, a bar with an extension portion for attaching one end of a saw blade, an adjustable member on the bar for attaching the other end of the blade, said member having a curved surface to engage the lower side of the bar, a securing and blade tensioning device in the member and located above the bar for engaging the upper

edge of the bar for moving the curved surface against the under side of the bar and rocking the member to simultaneously place the desired tension on the blade, said curved surface serving as a pivotal point about which



said member rocks when the securing and blade tensioning device is operated, said adjustable member serving to provide an open space between the same and the handle, for the purpose described.

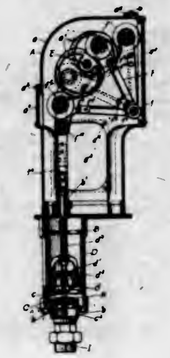
1,382,449. VEGETABLE-CRUSHER. WLADYSLAW S. ANDRYSIAK, South Bend, Ind. Filed Nov. 13, 1919. Serial No. 337,835. 1 Claim. (Cl. 146—9.)



A vegetable slicer having a central bearing sleeve and guiding wings radiating therefrom, a receptacle wall secured to and supported by the extremities of said wings, a supporting bracket connected with one of said wings, an operating spindle mounted in said sleeve and provided at its upper end with an operating handle, and a slicer disk secured to the lower end of said spindle and forming the bottom of the receptacle.

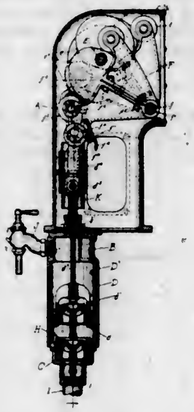
1,382,450. PUMP. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Nov. 7, 1917. Serial No. 200,714. 10 Claims. (Cl. 103—62.)

2. In a pump, the combination with two pump cylinders and reciprocating pistons therein, of two oscillating members each adapted to actuate one of said pistons, and two rotary cam members and means for rotating them at equal speeds, each of said cam members adapted to actuate one of said oscillating members and provided with separate cam tracks for discharge and return motions of the oscillating member actuated thereby, said cam tracks being so arranged and formed in relation to



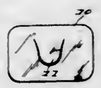
each other that the pistons are actuated to deliver equal quantities of fluid pumped for all equal arcs of revolution of the cams.

1,382,451. CONSTANT-FLOW MEASURING-PUMP. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed May 4, 1920. Serial No. 378,791. 5 Claims. (Cl. 103—85.)



1. In a two piston reciprocating measuring pump of the constant flow type, oscillating frames for driving the pistons, said frames provided with means for adjustably connecting the pistons thereto at varying distances from the centers of oscillation.

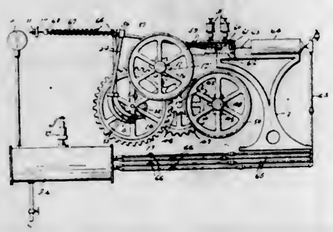
1,382,452. COLLAR-BUTTON. LAWRENCE G. BALDWIN, Eastland, Tex. Filed June 9, 1920. Serial No. 387,680. 1 Claim. (Cl. 24—101.)



A collar button consisting of a flexible plate adapted to conform itself to the shape of a collar where it is attached

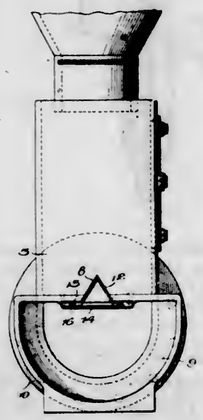
to the latter, the said button having a base and an integral tongue upstruck from the base and normally lying in the plane of the latter but adapted to be terminally deflected from said plane.

1,382,453. AIR-COMPRESSING MACHINE. MICHELE BARBETTA, Paterson, N. J. Filed Feb. 17, 1917, Serial No. 149,237. Renewed Apr. 29, 1921. Serial No. 465,504. 4 Claims. (Cl. 230—32.)



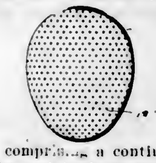
1. In an air compressing machine, the combination of an air storage tank, a plurality of air compressors communicating with said tank, a crank shaft provided with a plurality of cranks, a plurality of levers pivotally mounted intermediate their ends, each lever provided at one end with an arcuate member positioned for engagement by a crank of the crank shaft, connections between said compressors and the levers for operating the former when the latter are rocked, and means for returning the levers to normal position when the cranks of said crank shaft are disengaged from the arcuate members of the levers.

1,382,454. INTAKE-FEEDER FOR SUCTION-CONVEYERS. JOHN F. BARKLEY, Wilkinsburg, Pa. Filed June 21, 1919. Serial No. 305,737. 5 Claims. (Cl. 302—52.)



1. In a pneumatic conveyer, the combination with a suction conduit, of a feed hopper connected to one end of said conduit, said hopper having side and bottom walls, said bottom wall being cut away throughout its length from front to rear thereof, and the rear and front side walls being notched upwardly from said cut-away portion forming a continuous outlet opening, and an arched valve member controlling said outlet opening.

1,382,455. DARNING DEVICE. EDITH MACKENZIE BASS, Concord Junction, Mass. Filed Aug. 28, 1920. Serial No. 406,668. 1 Claim. (Cl. 223—14.)



A darning egg comprising a continuous hollow metallic body substantially oval in form provided throughout its area with a plurality of equally spaced perforations and packing material within said body.

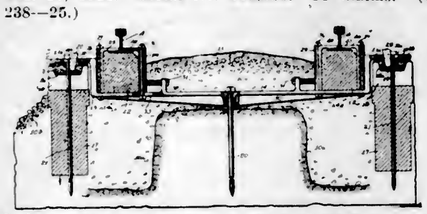
1,382,456. METHOD OF LOWERING THE VISCOSITY OF LIQUIDS. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Nov. 28, 1919. Serial No. 341,214. 4 Claims. (Cl. 44—8.)

1. A stable liquid fuel comprising liquid hydrocarbon and dehydrated tar obtained from the cracking of oil vapors derived from the treatment of coal and oil or oil alone with steam.

1,382,457. FUEL AND METHOD OF PRODUCING SAME. LINDON W. BATES, Mount Lebanon, N. Y. Original application filed Aug. 5, 1919, Serial No. 315,497. Divided and this application filed May 17, 1920. Serial No. 381,826. 9 Claims. (Cl. 44—8.)

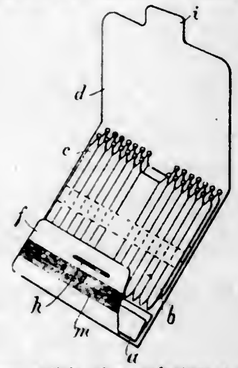
1. A stable mobile fuel containing particles of solid carbonaceous substance and a plurality of incompletely miscible liquid hydrocarbons.

1,382,458. TRACK SUPPORTING AND FASTENING MEANS. WILLIAM O. BATTS, Wilmot, Kans. Filed Feb. 17, 1921. Serial No. 445,666. 11 Claims. (Cl. 238—25.)



9. In a railway, transverse tie bars adapted to receive rail-supporting means inward from the ends of the bars, posts in the roadbed beneath the ends of the tie bars, and anchoring means securing said ends to said posts.

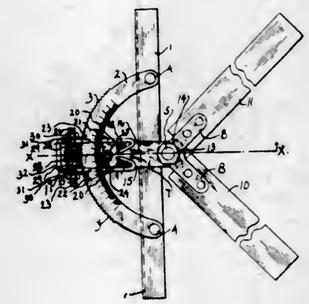
1,382,459. COMBINED MATCH AND TOOTHPICK. MAURICE BERCOVICI, Botosani, Roumania. Filed Nov. 4, 1916. Serial No. 129,528. 3 Claims. (Cl. 44—44.)



1. As a new article of manufacture a package of combined matches and toothpicks, comprising two overlying

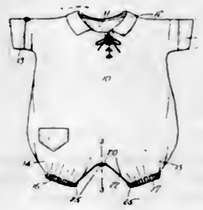
and connected portions, each portion having a plurality of separable members, both ends of which are free, one end being pointed and the other end provided with an igniting substance.

1,382,460. MICROMETER-PROTRACTOR. KNUT BERGLOF, Buffalo, N. Y. Filed June 28, 1920. Serial No. 392,185. 5 Claims. (Cl. 33—93.)



1. A protractor comprising a bar, a circular segment fixed to said bar, a frame pivotally mounted upon said bar, positioned to turn about an axis common to the center of the said circular segment, means in engagement with said frame, positioned to slide thereon in a direction radial to the pivotal axis of said frame, an adjusting element on said means engaging said segment and releasable means for holding said element in releasable engagement with said segment.

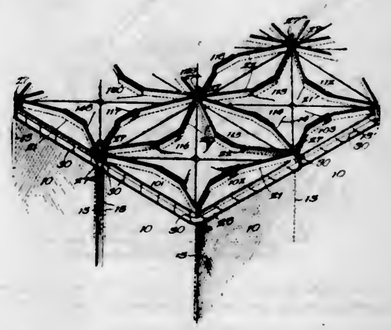
1,382,461. GARMENT. ANNE COLLINS BERRY, New York, N. Y. Filed Feb. 7, 1919 Serial No. 275,618. 1 Claim. (Cl. 2—144.)



A garment comprising a body having leg openings and a straight cut from the leg openings into the body, leaving edges at the front and the rear; finishing pieces attached to the respective edges and laid in horizontal relationship transversely of the crotch to easily enable the pieces to fall into an inverted V-shape; and complementary fastening means on the pieces.

1,382,462. SPRING-CUSHION CONSTRUCTION. ELMER S. BILLS, Chicago, Ill., assignor, by direct and mesne assignments, to Harmony Spring Cushion Co., a Corporation of Illinois. Filed Feb. 5, 1919. Serial No. 273,060. 12 Claims. (Cl. 5—13.)

1. In spring cushion construction, the combination with a single band disposed in angularly related planes that join each other along parallel lines and comprise one side of a continuous envelop for the springs of a complete cushion, of a complementary envelop side for the band comprising a strip following the band, fulled thereon at regularly spaced intervals along its longitudinal edges and sewed to the band along its edges and along transverse lines between said fulled portions to form spring pockets, and prism-shaped springs positioned one in each pocket.



1,382,463. MACHINE FOR PRODUCING SPRING DRESS-FASTENERS. KLAS GUSTAV BLOMBERG, Södertälje, and BENGT AUGUST PETTERSSON, Lidköping, Sweden. Filed Oct. 17, 1919. Serial No. 331,515. 1 Claim. (Cl. 79—3.)

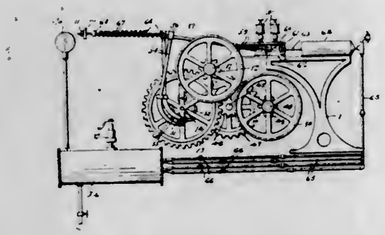
A device for cutting out the top section of a dress fastener and bending down the edges of same in a machine for producing such fasteners, consisting of three concentrically fitted plungers (1, 2, 3), three rocking levers (11, 12, 13) which latter impart a vertical reciprocating motion to the said plungers, a cut-out die pillow (5) acting in conjunction with cut-out die (4) fitted to the outside plunger (1) a drawing die pillow (8) acting in conjunction with drawing die (7) fitted to the intermediate plunger (2), a spring push-off pin (9) fitted to the center plunger (3) with the object of pushing the fastener blank (40) off the drawing die (7).

1,382,464. PUNCH-PRESS. GEORGE J. BLUM, Chicago, Ill., assignor to Armstrong-Blum Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1919. Serial No. 321,886. 28 Claims. (Cl. 164—15.)

1. A punch press comprising a pair of spaced main

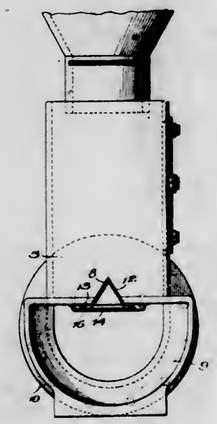
to the latter, the said button having a base and an integral tongue upstruck from the base and normally lying in the plane of the latter but adapted to be terminally deflected from said plane.

1,382,453. AIR-COMPRESSING MACHINE. MICHELE BARBETTA, Paterson, N. J. Filed Feb. 17, 1917, Serial No. 149,237. Renewed Apr. 29, 1921. Serial No. 465,504. 4 Claims. (Cl. 230—32.)



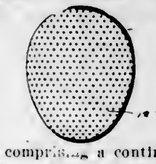
1. In an air compressing machine, the combination of an air storage tank, a plurality of air compressors communicating with said tank, a crank shaft provided with a plurality of cranks, a plurality of levers pivotally mounted intermediate their ends, each lever provided at one end with an arcuate member positioned for engagement by a crank of the crank shaft, connections between said compressors and the levers for operating the former when the latter are rocked, and means for returning the levers to normal position when the cranks of said crank shaft are disengaged from the arcuate members of the levers.

1,382,454. INTAKE-FEEDER FOR SUCTION-CONVEYERS. JOHN F. BARKLEY, Wilkinsburg, Pa. Filed June 21, 1919. Serial No. 305,737. 5 Claims. (Cl. 302—52.)



1. In a pneumatic conveyer, the combination with a suction conduit, of a feed hopper connected to one end of said conduit, said hopper having side and bottom walls, said bottom wall being cut away throughout its length from front to rear thereof, and the rear and front side walls being notched upwardly from said cut-away portion forming a continuous outlet opening, and an arched valve member controlling said outlet opening.

1,382,455. DARNING DEVICE. EDITH MACKENZIE BASS, Concord Junction, Mass. Filed Aug. 28, 1920. Serial No. 406,668. 1 Claim. (Cl. 223—14.)



A darning egg comprising a continuous hollow metallic body substantially oval in form provided throughout its area with a plurality of equally spaced perforations and packing material within said body.

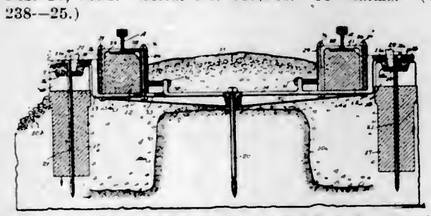
1,382,456. METHOD OF LOWERING THE VISCOSITY OF LIQUIDS. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Nov. 28, 1919. Serial No. 341,214. 4 Claims. (Cl. 44—8.)

1. A stable liquid fuel comprising liquid hydrocarbon and dehydrated tar obtained from the cracking of oil vapors derived from the treatment of coal and oil or oil alone with steam.

1,382,457. FUEL AND METHOD OF PRODUCING SAME. LINDON W. BATES, Mount Lebanon, N. Y. Original application filed Aug. 5, 1919, Serial No. 315,497. Divided and this application filed May 17, 1920. Serial No. 381,826. 9 Claims. (Cl. 44—8.)

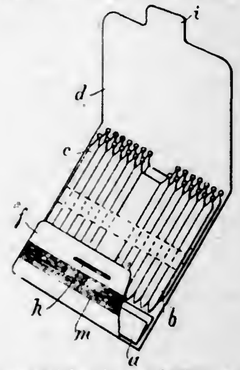
1. A stable mobile fuel containing particles of solid carbonaceous substance and a plurality of incompletely miscible liquid hydrocarbons.

1,382,458. TRACK SUPPORTING AND FASTENING MEANS. WILLIAM O. BATTS, Wilmot, Kans. Filed Feb. 17, 1921. Serial No. 445,666. 11 Claims. (Cl. 238—25.)



9. In a railway, transverse tie bars adapted to receive rail-supporting means inward from the ends of the bars, posts in the roadbed beneath the ends of the tie bars, and anchoring means securing said ends to said posts.

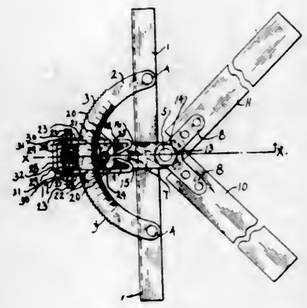
1,382,459. COMBINED MATCH AND TOOTHPICK. MAURICE BERCOVICI, Botosani, Roumania. Filed Nov. 4, 1916. Serial No. 129,528. 3 Claims. (Cl. 44—44.)



1. As a new article of manufacture a package of combined matches and toothpicks, comprising two overlying

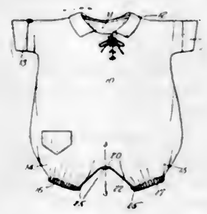
and connected portions, each portion having a plurality of separable members, both ends of which are free, one end being pointed and the other end provided with an igniting substance.

1,382,460. MICROMETER-PROTRACTOR. KNUT BERGLOF, Buffalo, N. Y. Filed June 28, 1920. Serial No. 392,185. 5 Claims. (Cl. 33—93.)



1. A protractor comprising a bar, a circular segment fixed to said bar, a frame pivotally mounted upon said bar, positioned to turn about an axis common to the center of the said circular segment, means in engagement with said frame, positioned to slide thereon in a direction radial to the pivotal axis of said frame, an adjusting element on said means engaging said segment and releasable means for holding said element in releasable engagement with said segment.

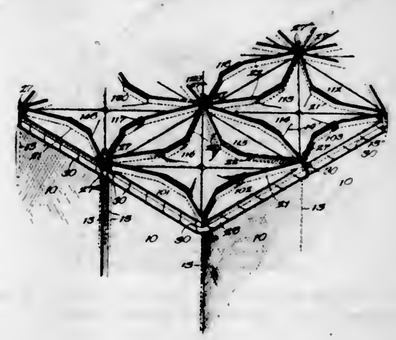
1,382,461. GARMENT. ANNE COLLINS BEARY, New York, N. Y. Filed Feb. 7, 1919 Serial No. 275,618. 1 Claim. (Cl. 2—144.)



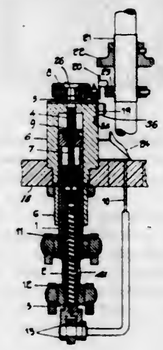
A garment comprising a body having leg openings and a straight cut from the leg openings into the body, leaving edges at the front and the rear; finishing pieces attached to the respective edges and laid in horizontal relationship transversely of the crotch to easily enable the pieces to fall into an inverted V-shape; and complementary fastening means on the pieces.

1,382,462. SPRING-CUSHION CONSTRUCTION. ELMER S. BILLS, Chicago, Ill., assignor, by direct and mesne assignments, to Harmony Spring Cushion Co., a Corporation of Illinois. Filed Feb. 5, 1919. Serial No. 275,060. 12 Claims. (Cl. 5—13.)

1. In spring cushion construction, the combination with a single band disposed in angularly related planes that join each other along parallel lines and comprise one side of a continuous envelop for the springs of a complete cushion, of a complementary envelop side for the band comprising a strip following the band, fulled thereon at regularly spaced intervals along its longitudinal edges and sewed to the band along its edges and along transverse lines between said fulled portions to form spring pockets, and prism-shaped springs positioned one in each pocket.



1,382,463. MACHINE FOR PRODUCING SPRING DRESS-FASTENERS. KLAS GUSTAV BLOMBERG, Södertälje, and BENGT AUGUST PETTERSSON, Lidköping, Sweden. Filed Oct. 17, 1919. Serial No. 331,515. 1 Claim. (Cl. 79—3.)

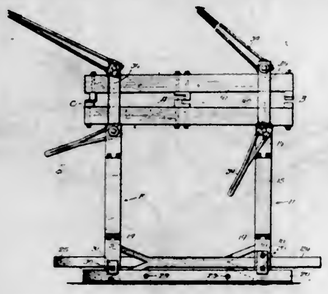


A device for cutting out the top section of a dress fastener and bending down the edges of same in a machine for producing such fasteners, consisting of three concentrically fitted plungers (1, 2, 3), three rocking levers (11, 12, 13) which latter impart a vertical reciprocating motion to the said plungers, a cut-out die pillow (5) acting in conjunction with cut-out die (4) fitted to the outside plunger (1) a drawing die pillow (8) acting in conjunction with drawing die (7) fitted to the intermediate plunger (2), a spring push-off pin (9) fitted to the center plunger (3) with the object of pushing the fastener blank (40) off the drawing die (7).

1,382,464. PUNCH-PRESS. GEORGE J. BLUM, Chicago, Ill., assignor to Armstrong-Blum Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1919. Serial No. 321,886. 28 Claims. (Cl. 164—15.)

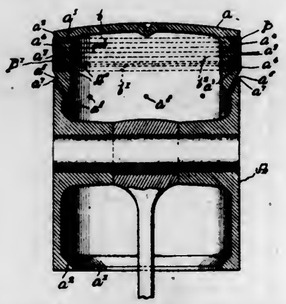
1. A punch press comprising a pair of spaced main

beams extending in approximate parallelism and a pair of mechanisms adapted to be associated with said beams



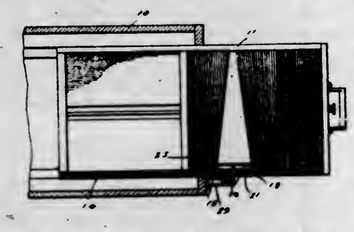
at any selected spaced points along their length to move said beams toward and away from each other.

1,382,465. METALLIC PISTON-PACKING. HARRY MORTON BRAMBERRY, Norfolk, Va. Filed Feb. 12, 1920. Serial No. 358,259. 2 Claims. (Cl. 74—109.)



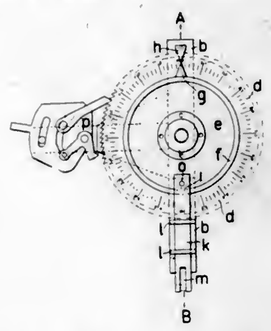
1. In a metallic piston packing, the combination with a piston provided with an annular groove in the cylindrical portion thereof, said groove having parallel side walls perpendicular to the axis of the piston, and the said piston being provided with an annular rib rectangular in cross section projecting outward from the center of the bottom of said groove, said rib separating said groove into two channels of equal depth, of a split packing ring sprung into said groove, said ring having a cylinder bearing surface and an internal groove also rectangular in cross section, with the bottom of said internal groove engaging the periphery of said rib, the side walls of said ring groove projecting into and registering with said piston channels, said side walls being of less cross sectional area than the cylinder bearing wall of said ring.

1,382,466. ATTACHMENT FOR FILING-CABINETS. OTTO H. J. BRAUER, Mahmomen, Minn. Filed Sept. 20, 1920. Serial No. 411,521. 5 Claims. (Cl. 129—16.)



1. The combination with a filing cabinet drawer, of a vertically disposed indicator carried by the drawer and capable of lateral movement and means for automatically returning the indicator to normal position during the act of closing the drawer.

1,382,467. STOP MECHANISM FOR REGISTERS. GUSTAV A. BRUHN, Harburg-on-the-Elbe, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,113. 3 Claims. (Cl. 235—132.)

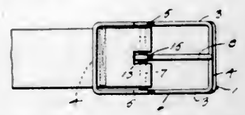


2. An apparatus of the class described comprising a disk, the face of said disk being provided with graduations, means for intermittently moving said graduated disk, a second disk coupled with said graduated disk for movement therewith but capable of being adjusted relatively thereto, said second disk being provided with a peripheral flange, said flange being cut-away at one portion thereof, a locking member slidably supported adjacent said second disk, means carried by said locking member and bearing on said peripheral flange for retaining the locking member in its inoperative position, a locking pawl carried by said locking member, the cutway portion within the peripheral flange permitting the locking member to move to its operative position to release said pawl.

1,382,468. SHOE AND LEATHER DRESSING. CECIL A. BUMPASS, Genesee, Idaho, assignor of one-half to Arthur Henry Potsch, Genesee, Idaho. Filed Nov. 16, 1920. Serial No. 424,457. 3 Claims. (Cl. 134—9.)

1. A dressing for leather consisting of a mixture of tallow, neat's-foot oil, beeswax, pine tar, glycerin, paraffin and a coloring agent.

1,382,469. HARNESS-BUCKLE. GEORGE V. BURRIS, Courtland, Calif. Filed Apr. 11, 1919. Serial No. 289,181. 1 Claim. (Cl. 24—164.)

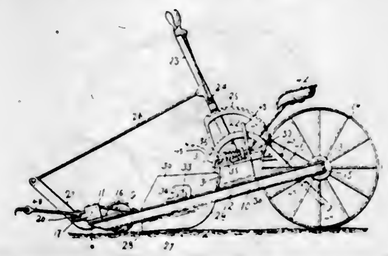


A buckle having a frame, a loop fastening bolt screw threaded at both ends to the frame, and a tongue within the frame screw threaded to the bolt to prevent movement longitudinally of the bolt to unduly wear the loop and to secondly tend to prevent accidental detachment of the bolt.

1,382,470. ROAD-SCRAPER. ALVA L. BUTLER, Ucon, Idaho. Filed July 15, 1920. Serial No. 396,459. 6 Claims. (Cl. 37—33.)

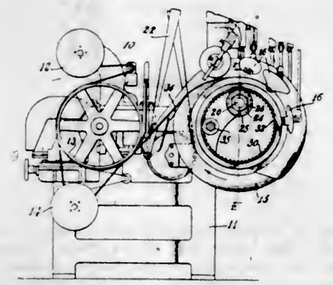
1. In a wheeled scraper, a supporting frame and carrier wheels, a support carrying a caster wheel and adjustable vertically relative to said frame, a combined scraper and scoop swingingly connected to said frame, means

under the control of the operator for adjusting said caster wheel support to elevate and depress the frame, a spring controlled catch for holding said scraper in scraping



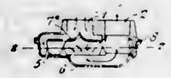
position and in load carrying position, and means for holding said scraper in various angular positions relatively to the frame.

1,382,471. TIRE-BUILDING MACHINE. JAMES L. BUTLER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 27, 1919. Serial No. 300,021. 8 Claims. (Cl. 154—10.)



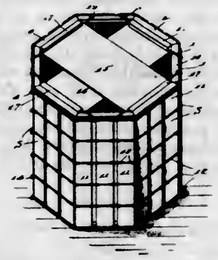
7. In a machine for making open-bellied pneumatic tire casings, the combination of a tire-forming core mounted to rotate in a vertical plane, means located in an upper position eccentric to the axis of the core for supporting and driving the core from its inner periphery, and eccentrically-mounted roller means located at an intermediate height and engaging the inner periphery of the core for resisting radial and axial thrusts thereof.

1,382,472. SILENCER FOR INTERNAL-COMBUSTION ENGINES. BJARNE CARLÉN, Nordstrand, near Christiania, Norway. Filed June 21, 1919. Serial No. 305,834. 7 Claims. (Cl. 137—160.)



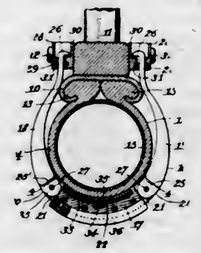
1. An exhaust silencer, comprising a casing, vanes arranged in a circle in said casing and spaced from the sides of the casing to form a peripheral chamber, said vanes being straight and flared from their inner ends to their outer ends thereby forming straight tapered expansion passages from the periphery to the center of said series, an inlet for said chamber and an outlet at the center of said series of vanes.

1,382,473. WIRE-BOUND PACKAGE. JEFFERSON CAYLOR, Indianapolis, Ind., assignor to Pioneer Box Company, Crawfordsville, Ind., a Corporation of Indiana. Filed Dec. 2, 1919. Serial No. 342,006. 5 Claims. (Cl. 217—49.)



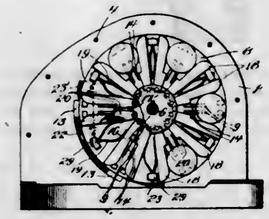
1. A wirebound package comprising a circumferential series of mating cleats, a binding wire encircling said series, an end member forming a strut across the series, and wires attached to said end member and extending transversly thereof, the ends of said wires being carried across adjacent cleats of the circumferential series and secured under tension.

1,382,474. ARMOR FOR PNEUMATIC TIRES. GEORGE CODISH, Brooklyn, N. Y. Filed Sept. 7, 1920. Serial No. 408,500. 7 Claims. (Cl. 152—16.)



4. An armor for tires comprising a plurality of sections connected together and having relative movement and each of which comprises a plurality of jointed parts, certain of said parts having bills, securing means embodying anti-friction rollers for securing said sections in place about said tire and for permitting the same to have relative movement with respect thereto.

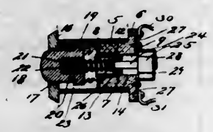
1,382,475. COIN-CONTROLLED OPERATING DEVICE FOR VENDING-MACHINES AND THE LIKE. ALBERT K. COLLINS, Charlotte, N. C. Filed Feb. 12, 1920. Serial No. 358,198. 11 Claims. (Cl. 194—54.)



1. In a coin controlled operating device for vending machines, a casing having a coin slot therein, a shaft journaled in said casing and adapted for rotary movement,

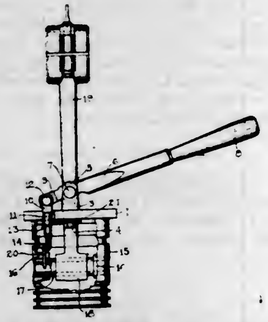
a disk keyed upon said shaft and rotatable therewith, said disk having radial slots formed therein, locking dogs disposed upon one side of the disk and having lugs stamped therefrom and projecting through the slots in the disk, said dogs normally holding the disk against movement, and pairs of coin controlled fingers at the opposite side of said disk, the confronting edges of the fingers of each pair having heels formed thereon adapted to engage the respective lug in said locking dog to hold the latter against movement to unlocking position, said fingers being adapted to be moved away from each other to relieve the lugs of the influence of the heels upon the application of a coin to the machine whereby the disk will be relieved of the influence of the locking dogs so that the shaft may be actuated to operate the machine associated with the device.

1,382,476. ELECTRIC-CIRCUIT CLOSER. WILLIAM J. COOK, Charlotte, N. C. Filed Oct. 10, 1919. Serial No. 329,714. 3 Claims. (Cl. 200—159.)



1. A circuit closer of the class specified, comprising an inclosing casing, an insulating plug held within the casing, conducting strips secured to the rear end of the plug for attachment of the circuit wires, the conducting strips having their free extremities inwardly bent at an angle and overlapped and normally out of engagement, and a spring actuated plunger mounted in and movable through the plug and having an outer threaded end with a head thereon which serves as an actuating means for the plunger and is directly rotatable relatively to the plunger to adjust the latter without disorganizing the parts of the closer, the rear end of the plunger having a head to effect an engagement of the said angular contacts.

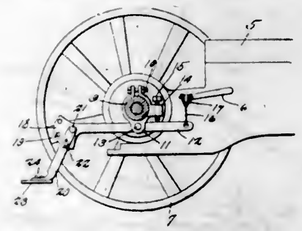
1,382,477. COTTER-PIN EXTRACTOR. FRANK COOPER and GEORGE CLIFFORD HILL, Seattle, Wash. Filed Feb. 28, 1920. Serial No. 361,942. 8 Claims. (Cl. 29—86.1.)



1. A tool of the class described including a base, a pivot post carried by the base, a lever pivotally mounted upon said post, a socket connected to the lever at one end and a hook member detachably connected with said socket.

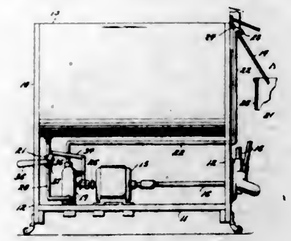
1,382,478. CLUTCH-RELEASING MECHANISM FOR TRACTORS. DALMAR L. COX, Greenville, N. C. Filed May 29, 1920. Serial No. 385,375. 1 Claim. (Cl. 180—82.)

In a clutch releasing mechanism for tractors, a clip adapted to be anchored to a tractor axle, a lever pivotally connected to the clip, an apertured lug, a screw threaded therein engaging the lever for holding the lever at different positions of adjustment, means for connecting the lever at one end to a clutch operating mechanism, a quadrant



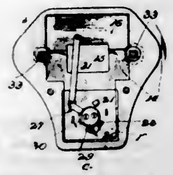
at the opposite end of the lever, the said quadrant having apertures therein, an arm pivotally connected to the lever, a member extending through the arm and an aperture of the quadrant for holding the arm at different positions of adjustment.

1,382,479. WASHING-MACHINE AND PUMP MECHANISM THEREFOR. JOHN A. CRAWFORD, Philadelphia, Pa. Filed Sept. 3, 1919. Serial No. 321,375. 1 Claim. (Cl. 68—37.)



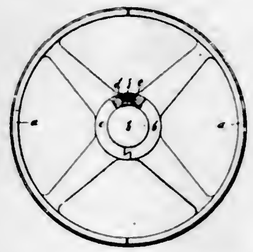
A washing machine comprising a frame, a receptacle supported in the upper part of the frame, a motor supported by the lower part of the frame, a pump on the frame adjacent the motor, an outlet pipe leading from the bottom of the receptacle to the pump, a valve in the pipe, a handle for actuating the valve, said handle having an extension thereon extending beyond its connection with the valve, an outlet pipe for the pump, a clutch for connecting the pump with the motor, a bracket on the pump, a clutch lever pivoted to the bracket and engaging with the clutch and a link having one end connected to the clutch lever and its other end connected with the extension on the handle for releasing the clutch when the handle is moved to close the valve and for engaging the clutch when the handle is moved to open the valve.

1,382,480. LOCKING-VALVE FOR INTERNAL-COMBUSTION ENGINES. AUSTIN A. CROSSLEY, Luther, Okla. Filed Feb. 18, 1920. Serial No. 359,713. 7 Claims. (Cl. 251—6.)



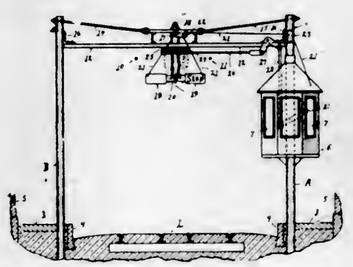
2. A device of the character described including a valve casing, rotatable means for securing the valve casing in active position, and a valve within the casing movable to closed position locking said means against rotation.

1,382,481. SPLIT COLLAR AND PULLEY. THOMAS CROSSLEY, Manchester, England. Filed July 6, 1920. Serial No. 394,094. 1 Claim. (Cl. 64—18.)



A device of the character described having a hole for engaging with a shaft, said device being formed of two similar sections having dovetailed joints which connect them together, said sections having also a screw-threaded hole extending through one of their joints and arranged radially of the center of the shaft hole, and a screw inserted in the said hole and operating to lock the sections together.

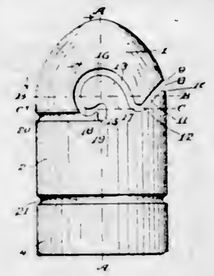
1,382,482. TRAFFIC-DIRECTING APPARATUS. JOHN W. CURRY, Cincinnati, Ohio. Filed Oct. 21, 1918. Serial No. 259,101. 2 Claims. (Cl. 116—63.)



1. A traffic directing apparatus comprising a substantially vertical rigid support located at one side of a street, an elevated rigid laterally projecting bar supported upon and at the upper end of said vertical member and overhanging the street, a vertically disposed signal shaft rotatably journaled in a bearing rigidly mounted upon said laterally projecting bar at substantially the center of the street, means carried by said laterally projecting bar to engage a member carried by said signal shaft to limit the rotary movement of said shaft, signal arms carried by said signal shaft, an observer's support carried at an intermediate position upon and by said vertical support, and elevated above the street to afford the observer an unobstructed view over pedestrians and vehicles, and means operable from said observer's support to rotatably actuate said signal shaft.

1,382,483. ELECTRIC-LINE-WIRE INSULATOR. JOHN G. DECKER, Stroudsburg, Pa. Filed May 24, 1918. Serial No. 236,343. 1 Claim. (Cl. 173—313.)

A device of the type described comprising an insulator of the electric line-wire type, the body portion of said insulator having a wire-receiving passage extending transversely therthrough and of continuous serpentine-like outline, starting with a mouth in the side of the head of said body-portion, the upper lip overhanging the lower lip of said mouth and including a downward extension reversely upwardly curved and again reversely curved upwardly and finally extending vertically downward, forming a seat for the line-wire.

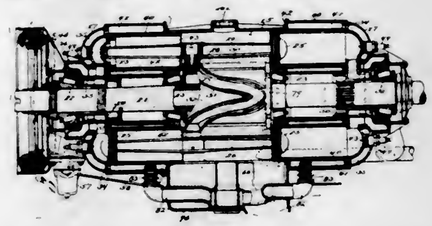


1,382,484. CLASP. JOSEPH F. DELCOURT, New Bedford, Mass. Filed Jan. 20, 1921. Serial No. 438,684. 5 Claims. (Cl. 24—250.)



1. A clasp comprising a jaw, an overhanging arm carried thereby, a second jaw between the first jaw and arm thereof, a rib carried by the second jaw, and an actuating lever having a head and side arms extending upon opposite sides of said rib, the arms having connection with the rib and the rib having a latching stud extending from one side for fitting into a socket formed in one of the side arms of said lever and the lever head extending beyond the jaws and having its end portion notched to provide a finger nail securing seat.

1,382,485. INTERNAL-COMBUSTION ENGINE. CHARLES DE LUKACSEVICS, New York, N. Y. Filed May 3, 1919. Serial No. 294,567. 22 Claims. (Cl. 123—58.)

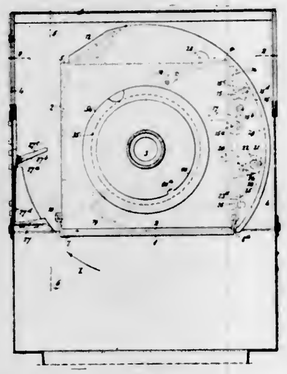


1. In an internal combustion engine, the combination with a body comprising a center block, a pair of cylinder blocks disposed respectively at opposite sides of said center block and each constituting a set of cylinders, and means for securing said blocks together, of pistons in said cylinders, said pistons having piston rods, a shaft journaled in said body, a drum on said shaft having a cam groove formed therein, means including rollers carried by said piston rods for operatively engaging said cam groove, and means including guide bars for guiding said rollers, said cylinder blocks having notches in which the ends of said guide bars are received and retained when said blocks are assembled.

13. In an internal combustion engine, the combination of a hollow cylindrical body composed of a phenol conden-

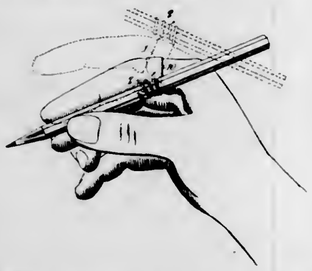
sation product, a metallic cylinder head for said body, a metallic liner molded into said body, and a piston adapted to reciprocate in said liner.

1,382,486. PHOTOGRAPHIC APPARATUS. GEORGES DE RAM, Paris, France. Filed May 6, 1918. Serial No. 232,840. 7 Claims. (Cl. 88—19.1.)



1. In a photographic camera, the combination of a light tight chamber, a receptacle for photographic plates disposed within the said chamber, the said receptacle being adapted to rotate about a horizontal shaft and to be connected to a driving shaft whose direction of rotation is invariable, and having admission and delivery apertures at the ends thereof, retaining means disposed upon the said ends and adapted to retain the plates in the receptacle against the action of gravity, actuating means for opening and closing the said retaining means at determined points on the rotation of the receptacle, supporting means secured within the said light tight chamber for receiving the plates at a point where they issue out of the said delivery aperture by the simple action of gravity, and extensions provided upon said receptacle whereby the plates disposed upon the said supporting means are disengaged therefrom and allowed to slide into the said receptacle by their own weight.

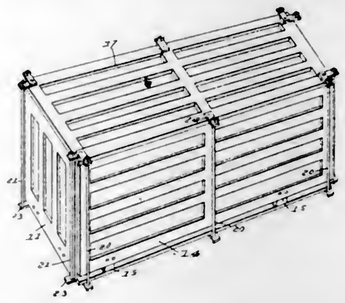
1,382,487. PEN OR PENCIL HOLDING DEVICE. THOMAS J. DIXON, Madison, Wis. Filed Mar. 10, 1921. Serial No. 451,407. 3 Claims. (Cl. 120—102.)



1. A device of the character stated comprising a ring band, provided with a strip extending in the direction of its length adapted for being shaped into a coil and projected laterally of the band for receiving and sustaining a pen or pencil.

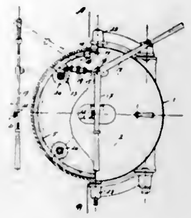
1,382,488. FOLDING SHIPPING-CRATE. WILLIAM J. DONNELLY, Stockton, Calif. Filed May 27, 1920. Serial No. 384,568. 2 Claims. (Cl. 217—47.)

1. A crate having hingedly connected bottom, side end and top walls of which the top and bottom walls are provided with pivotal ears for extension beyond the side and end edges thereof, and tie bolts terminally engaging



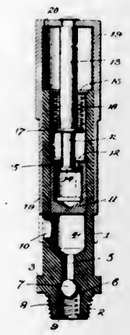
said ears for holding the crate members in their operative positions.

1,382,489. LOCKING DEVICE FOR AUTOCLAVES. KLAAS ENSINK, Hilversum, Netherlands. Filed Apr. 7, 1921. Serial No. 459,471. 4 Claims. (Cl. 18—17.)



1. A locking device for autoclaves comprising inward circular flanges provided on the shell and the door of the autoclave, a circular elastic packing ring resting against both flanges, an adjustable elastic metal ring, having a groove wherein fit said flanges and packing ring, and means to reduce the diameter of said elastic metal ring from the outside of the apparatus in order to bring the door in its opening position.

1,382,490. LUBRICATOR. JOHN ERICKSON, Madison, Wis., assignor to Madison Kipp Corporation, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 16, 1919. Serial No. 345,203. 5 Claims. (Cl. 184—45.)



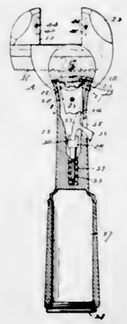
1. In a lubricator, the combination of a cylinder having a feed and a discharge port; a piston mounted therein; a closure member for the feed port mounted on the body; and a piston rod attached to and movable with said closure member, said rod likewise having a lost motion connection with the piston, whereby the closure member may first move lengthwise of the cylinder to close the feed port and the rod at the same time likewise moved without actuating the piston.

1,382,491. VALVE-TOOL. WILLIAM A. ESKIL, Corona, N. Y. Filed Mar. 26, 1920. Serial No. 368,978. 1 Claim. (Cl. 29—86.3.)



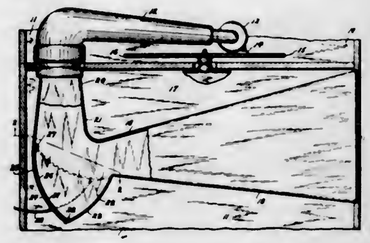
A tool for the purpose specified comprising a body portion having a longitudinal slot opening at one end, lugs depending from opposite sides of the tool and a plate secured to one end of the tool and having an opening disposed in alinement with said slot.

1,382,492. WRENCH. LAFAYETTE EVANS, Portsmouth, Ohio. Filed Dec. 10, 1920. Serial No. 429,753. 3 Claims. (Cl. 81—63.)



3. In a ratchet wrench, a head having a channel therein, one wall of the said channel having a groove, a rigid jaw on the said head, a movable jaw having a flange slidable in the channel of the head and having a rib slidable in the groove in the side wall of the channel, means for adjusting the movable jaw with relation to the stationary jaw, a boss having peripheral teeth, a handle mounted for rotation on the boss, a dog in the handle, means for pivotally mounting the dog whereby it engages the ratchet teeth and whereby its edge remote from the ratchet teeth engages the interior wall of the handle, the said dog having a recess in its edge, a rock arm having one end seated in the recess of the dog, a head having a recess in which the rock arm is oscillatably mounted, and means for urging the head toward the dog.

1,382,493. MODULATOR. FRED H. FERRIS, Wilmington, Del. Filed Dec. 20, 1918. Serial No. 267,690. 1 Claim. (Cl. 181—27.)

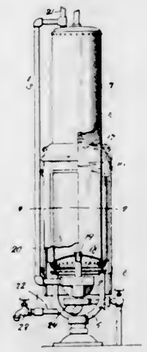


A talking machine horn of right angular shape having its sides prolonged beyond the outer wall of the angle or elbow and having the outer wall of the elbow formed open, an arcuate plate pivoted at one edge of the opening, a curved wall extending outwardly from the horn at the opposite pivot point, said prolongations of the sides and said curved wall coöperating with said plate to form a pocket, and means for moving said plate whereby to vary the size of said pocket.

1,382,494. PURIFICATION OF ZINC SOLUTIONS. SAMUEL FIELD, London, England, assignor to The Metals Extraction Corporation Limited, London, England, a Corporation of Guernsey. Filed Dec. 17, 1920. Serial No. 431,482. 8 Claims. (Cl. 204—18.)

1. The herein described process for the purification of a zinc salt solution from foreign metals, which comprises treating the solution with a sub-divided metal more electro-positive than the impurities to be removed, in presence of a salt of mercury.

1,382,495. WATER-HEATER. ALFRED T. FOWLES, Dallas, Tex. Filed June 13, 1919. Serial No. 304,041. 3 Claims. (Cl. 122—19.)



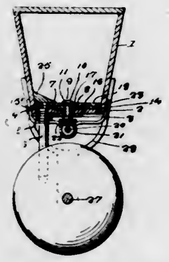
1. In an attachment for boilers comprising a removable sectional jacket seated about the lower section of a hot water boiler, a series of vertical, equally spaced V-shaped baffle plates arranged internally of the jacket and maintaining the latter in spaced relation to the wall of the boiler and providing a plurality of vertical passages for directing the air currents within said jacket, a flue extending vertically within the jacket having inlet ports in the lower portion thereof for receiving the products of combustion within the jacket and an outlet opening in the upper portion of said flue arranged exteriorly of the jacket, said flue being disposed in spaced relation to the baffle plates.

1,382,406. ATTACHING-RING. ALFRED T. FOWLES, Dallas, Tex. Filed June 13, 1919. Serial No. 304,044. 1 Claim. (Cl. 126—317.)



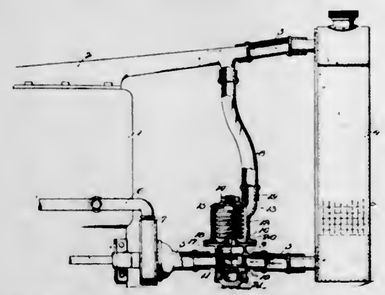
A two part clamping ring formed of separable sections and with an internal, annular groove adapted to receive packing between the ring and the exterior surface of a boiler, and a downward, flaring flange depending from the ring and considerably below the groove, and alined apertured ears integral with the ring receiving bolts, securing the separable ring sections.

1,382,497. GRAIN-DRILL. WILLIAM B. FRANKS, Tolu, Ky., assignor of one-half to G. W. Winders, Tolu, Ky. Filed Aug. 26, 1919. Serial No. 319,971. 1 Claim. (Cl. 221—122.)



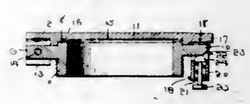
A grain drill embodying a grain box, grain spouts leading from the bottom thereof, a false bottom secured within the grain box and having a plurality of spaced openings therein to provide seats, wear disks located within the seats and having openings arranged above the grain spouts, seed disks also located within the seats above the wear disks, a shaft arranged externally of the box, means connecting the shaft and seed disks, said means extending through the wear plates and bottom and seed disks and means for operating the shaft to actuate the seed disks.

1,382,498. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed May 12, 1917. Serial No. 168,238. 19 Claims. (Cl. 123—178.)



1. In a cooling system for internal combustion engines, the combination of an engine jacket, a radiator, connections therebetween, valve mechanism for regulating the circulation of cooling medium through said radiator, thermosensitive means for controlling said valve mechanism, an always-open by-pass around said radiator, said thermosensitive means being subjected to the cooling medium flowing through said by-pass, and means whereby the quantity of cooling medium flowing through said by-pass is increased and decreased as the quantity of cooling medium flowing through said radiator is respectively decreased and increased.

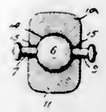
1,382,499. RADIATOR-CAP. CLAYTON E. GIFFORD, Marion, Ohio. Filed July 7, 1920. Serial No. 394,444. 10 Claims. (Cl. 220—55.)



1. The combination with an automobile radiator including a flanged inlet thereto, of a cap overlying the flanged inlet and pivoted at one side thereof, a latch lug extending radially of the flanged outlet, a projection extending radially from said cap immediately above and in line with said latch lug, a latch housing having its upper end bifurcated to span the projection of said cap and pivoted thereto, and a latch member carried in said housing and adapted for engagement with the under face of said latch lug, when said latch housing is swung to operative position.

6. In combination, a supporting member, a cap hingedly secured thereto, an extension pivotally secured to the cap and movable to inoperative position relative thereto, a housing having a bifurcated extremity pivotally secured to said extension, a lug carried by the supporting member adapted to be received between the bifurcations of the housing when the latter is moved to operative position, and a spring actuated plunger mounted in the housing, said lug having a cam face adapted to coact with the plunger to compress the latter as the housing is moved to operative position.

1,382,500. SPLICING-TOOL. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 12, 1919. Serial No. 289,666. 2 Claims. (Cl. 81—15.)



1. A splicing tool comprising a pair of jaws cupped in register on their meeting faces to form a recess, said recess extending to points adjacent the opposite edges of the jaws, in combination with shallow channels of like width opening from said cups to form passage ways to accommodate the shanks of dumb-bell links engaged by and extending in opposite directions from the sides of a chain ball seated in said recess.

1,382,501. CAN. CHARLES W. GRAHAM, Crestwood, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 5, 1916. Serial No. 76,341. 1 Claim. (Cl. 220—61.)

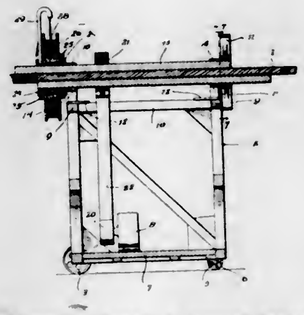
In a can, the combination of a can body having an outstanding seam flange, a can cover having a longer outstanding seam flange the extreme outer part of which is bent downward to form a short downward extension the

edge of which is downwardly presented so that the side of said extension is opposite to the edge of the body flange, a gasket arranged between the body flange and



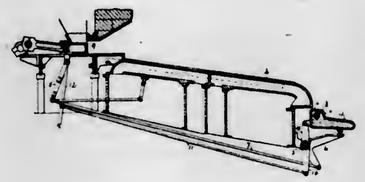
the under side of the cover flange, and a sealing strip compressing vertically together said cover flange and body flange and interposed gasket.

1,382,502. SERVING-MACHINE. WILLIAM GREEN, Portland, Oreg. Filed May 15, 1920. Serial No. 381,767. 3 Claims. (Cl. 28—6.)



1. In a serving machine, a wheeled frame, a hollow motor driven shaft thereon, a spool of cord supported on the shaft, a tautly supported cable passing through the bore of the shaft, means for feeding a strand of cord from the spool to the cable to permit of the cord being wound around the cable as the shaft is rotated, means carried by the shaft and overlying the wound cord on the cable for preventing the bunching of the cord on the cable, and means actuated by the cord in the winding thereof on the cable for moving the frame longitudinally of the cable.

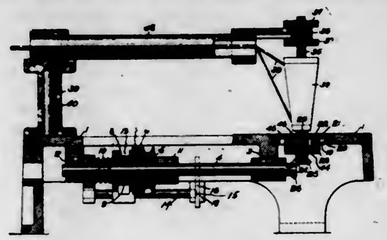
1,382,503. FURNACE. GEORGE J. HAGAN, Pittsburgh, Pa. Filed Nov. 1, 1918. Serial No. 260,681. 5 Claims. (Cl. 110—32.)



2. In a furnace the combination of a fuel supporting member, a hollow ash supporting member having perforations in the wall above the normal level of water therein and means for maintaining a supply of water at such normal level in the ash supporting member.

1,382,504. LEATHER-BURNISHING MECHANISM. BICKNELL HALL, Taunton, Mass. Filed Apr. 27, 1912. Serial No. 693,657. Renewed Sept. 29, 1919. Serial No. 327,269. 35 Claims. (Cl. 69—1.)

1. Leather burnishing mechanism comprising, in combination, a work guiding plate, a burnishing wheel, means for supporting said wheel adjacent said plate and in such position that the work will be guided by the plate to the



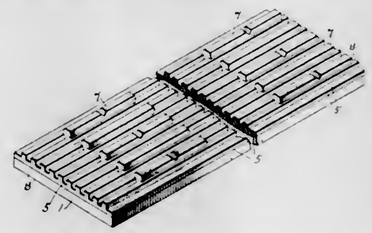
periphery of the wheel, means for rotating the wheel, and electrical means for heating the wheel.

1,382,505. PLUMBER'S TABLE AND VISE SUPPORT. GEORGE L. HARGEY, Pottsville, Pa. Filed Oct. 11, 1920. Serial No. 416,273. 8 Claims. (Cl. 81—41.)



5. In a device of the character specified, two tubular members, a third member coupling the tubular members in axially alined relation and operable to move said tubular members in reverse directions, a table, and coöperating means carried by said table and one of said tubular members for supporting said table, with respect to said tubular members, in a horizontal position, irrespective of whether said tubular members are disposed in a vertical or horizontal position, and anchoring means carried by each of said tubular members at one end thereof.

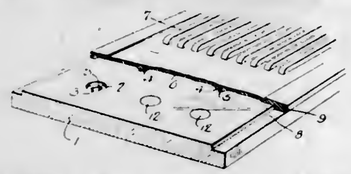
1,382,506. - RUNNING-BOARD FOR AUTOMOBILES. JOHN T. HAYNE, Detroit, Mich. Filed Apr. 26, 1919. Serial No. 292,823. 1 Claim. (Cl. 280—169.)



A running board for automobiles, including a base board and a resilient pliable mat having its upper or tread sur-

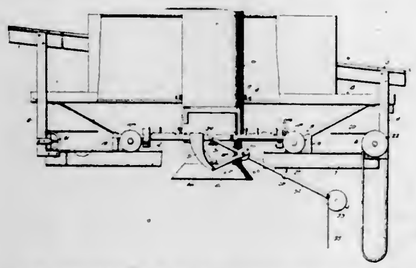
face provided with upper and lower sets of tread-ribs, the upper set of ribs having their shank-portions received intermediately of the lower set of ribs and their upper tread-surfaces partially overlying the upper surfaces of said lower set of ribs, said baseboard and mat being provided with means adapted to effect an interlocking connection therebetween.

1,382,507. RUNNING-BOARD FOR AUTOMOBILES. JOHN T. HAYNE, Detroit, Mich. Filed May 3, 1920. Serial No. 378,690. 2 Claims. (Cl. 280—163.)



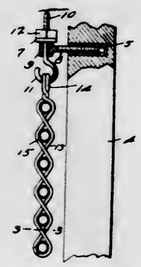
1. A running board for automobiles, including a main member having a plurality of countersunk stud-receiving orifices whose walls are provided with longitudinal grooves, studs received by said countersunk orifices, each stud having a screw-threaded socket, an end flange and lateral longitudinal cleats, a tread-mat member, and securing means between said studs and the running board threaded into the sockets of said studs, said grooves receiving said longitudinal cleats, the end flanges of said studs being received by the countersinks of said orifices.

1,382,508. SMOKESTACK. WILLIAM HAWKER, Edmonton, Alberta, Canada. Filed Dec. 3, 1920. Serial No. 428,141. 13 Claims. (Cl. 104—52.)



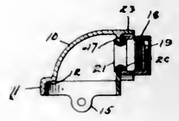
1. The combination with a supplementary smoke stack including fixed and movable sections; of friction controlled lever and link means for moving said movable section vertically without jamming.

1,382,509. HANGER. LEONARD A. M. HOOYMAN, Passaic, N. J. Filed Aug. 26, 1920. Serial No. 406,074. 1 Claim. (Cl. 248—34.)



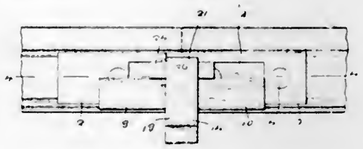
A pipe hanger including a shank engaged with an object and provided with a head remote from the latter, a bolt extending through said head and having its lower end formed to provide a hook, a plurality of pipes and wire strands each of which is provided with a convolution to engage said hook and having the ends thereof alternately arranged on opposite sides of the pipes substantially as described.

1,382,510. WIRING-CONDUIT CAP. FREDERICK I. JOHNSON, Warren, R. I., assignor to Mary W. Johnson, Warren, R. I. Filed July 18, 1919. Serial No. 311,746. 2 Claims. (Cl. 247—6.)



2. A wiring conduit cap comprising a substantially elbow-shaped body having an annular out-turned flange for inclosing and providing a seat for a removable insulating end piece, the opposite end of said body having an inwardly projecting flange, a coupling member rotatably connected to said flange, a weather shielding flange on said body extending over the joint between said coupling and its seat, and said weather shielding flange being provided with a drain opening.

1,382,511. RAIL-JOINT. JOSEPH KATCHER, Madera, Pa. Filed Mar. 21, 1921. Serial No. 454,140. 4 Claims. (Cl. 238—263.)



1. In combination with the confronting ends of rails having bolt openings through their webs, of fish plates on the sides of the rails, lugs on the fish plates passing through the openings in the rails, a wedge rib on the outer face of each plate, a yoke having jaw portions one of which is arranged over the wedge rib of one plate, a wedge key arranged over the rib of the second plate and received in the second jaw of the yoke.

1,382,512. COLLAR FASTENER OR CLASP. ORSON N. KELLY, Dallas, Tex. Filed Aug. 9, 1920. Serial No. 402,458. 3 Claims. (Cl. 24—81.)



1. A fastener or clasp comprising a body portion, a pair of oppositely disposed gripping members supported by said body portion and coöperating with the ends of said body portion to form clamps, and a single rotating cam lock coacting with intermediate portions of both said gripping members to apply a clamping pressure at the ends thereof.

1,382,513. COLLAR FASTENER OR CLASP. ORSON N. KELLY, Dallas, Tex. Filed Aug. 9, 1920. Serial No. 402,459. 3 Claims. (Cl. 24—81.)

1. A collar fastener comprising a neck or stem portion, and two pairs of oppositely projecting members adapted to straddle the flaps of a collar, and a sliding element on one of each of said pairs of members coöperating with the



companion member of the pair to cause a gripping or clamping of the collar flaps between said sliding element and said companion member.

1,382,514. COLLAR FASTENER OR CLASP. ORSON N. KELLY, Dallas, Tex. Filed Aug. 9, 1920. Serial No. 402,462. 7 Claims. (Cl. 24—81.)



1. A collar fastener comprising a body portion, converging supporting members projecting therefrom, gripping arms mounted upon said supporting members and coöperating with the ends of the body portion, and means for spreading said converging supporting members to apply gripping contact between the gripping arms and the body portion.

1,382,515. COLLAR FASTENER OR CLASP. ORSON N. KELLY, Dallas, Tex. Filed Aug. 9, 1920. Serial No. 402,463. 3 Claims. (Cl. 24—81.)



1. A collar fastener comprising an oblong body portion, a lug upon the face thereof having a bearing aperture therein, said aperture lying in a line parallel with the longitudinal axis of said body portion, and a clamping member substantially paralleling said body portion, pivoted in said bearing lug and having an offset clamping end coöperating with the end of said body portion to clamp a collar flap.

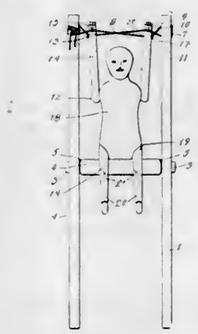
1,382,516. METHOD OF WEAVING PILE FABRICS. GEORG KOCH, Darmstadt, Germany, assignor to Dr. Ernest Cadgene and Olav Berg, Paterson, N. J. Filed July 26, 1920. Serial No. 399,207. 1 Claim. (Cl. 139—71.)



The herein described method of weaving a pile fabric which consists in at intervals crossing through a tight warp, around filling at one side thereof and then back through the tight warp one of two other and less tight warps, and, between each two such intervals and at the other side of the tight warp, crossing said less tight warps three or more times with respect to each other and also one of them through a false warp having free ends, around filling and back through said false warp, all while simultaneously advancing the tight and less tight warps relatively to the false warp in the direction in which the free ends of the latter project.

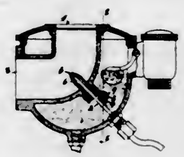
1,382,517. TOY ACROBAT. JUZEF KOWALSKI, Detroit, Mich. Filed Nov. 15, 1920. Serial No. 424,202. 1 Claim. (Cl. 46—40.)

In a device of the class described, a frame comprising side bars having a plurality of transverse openings adjacent to one end thereof and having rectangular openings near the center thereof, a transverse bar having its ends reduced to provide tongues which pass through the last mentioned openings, and the shoulders between the tongues and the transverse bar having their corners rounded, a figure comprising pivotally connected members including a body, legs and arms, the body being weightier than the legs and arms, the arms having their hand portions concaved and provided with eyes and having transverse openings inward of the eyes, a cord threaded through two of the openings in one of the sides of the frame, its strands arranged angularly to pass through the eye



and through the opening in the arm of the figure next to the said side of the frame, and strands of the cord between the arms being crossed directed through the eye and through the opening in the second arm of the figure, and being again crossed and directed through the two of the openings in the second side member of the frame, and from thence passed through the remaining opening in the said side member of the frame from opposite directions and having their ends tied, and the combined length of the body and arms of the figure being such as to permit of the figure normally resting on the cross bar of the frame.

1,382,518. ELECTRIC HEATER FOR LIQUID FUEL. ALFRED W. LE PAGE, Vancouver, British Columbia, Canada. Filed Feb. 12, 1920. Serial No. 358,245. 2 Claims. (Cl. 219—38.)

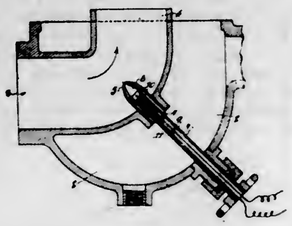


1. A means for heating liquid fuel for an internal combustion engine, said means comprising in combination with a carbureter, a fuel reservoir, a tube secured in the walls of the carbureter to extend through the fuel reservoir across the same below the level of the liquid therein, a naked heating element within the tube, insulating plugs in the ends of the tube through which connection with a source of electric energy is made to the heating element, substantially as shown and described.

1,382,519. MEANS FOR HEATING LIQUID FUEL. ALFRED W. LE PAGE, Vancouver, British Columbia, Canada. Filed Feb. 13, 1920. Serial No. 358,546. 3 Claims. (Cl. 219—38.)

1. A means for heating liquid fuel, said means comprising the combination with the bowl of a carbureter and the valve controlling passage of the liquid fuel therefrom

to the intake manifold of the engine, an axially hollow stem on the valve and a naked coil of electrical high resistance wire within the stem through which coil a suit-



able current may be passed and an insulating jacket within the stem constituting a chamber in which said coil is located and from the walls of which said coil is spaced.

1,382,520. HOG-CATCHER. OTTO M. LUNDENE, Flint, Mich. Filed Jan. 31, 1921. Serial No. 441,116. 4 Claims. (Cl. 119—153.)



1. In a hog-holding device, a main handle having a passage through it and having a latching pawl entirely housed within it, a tube attached to one end of the handle, a rotatable notched rod passing through the handle and the tube and having a flexible member connecting its forward end to the end of the tube to thereby form a contractible loop, and another handle-member connected to the rear end of the notched rod.

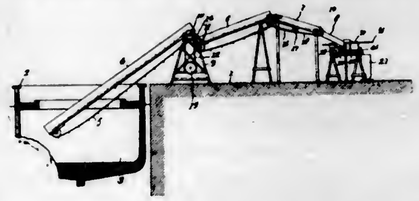
1,382,521. CLOTHES-DRAINING BASKET. GEORGE G. MCCORMICK, Collinsville, Ill. Filed Sept. 4, 1917. Serial No. 189,555. 1 Claim. (Cl. 68—30.)



A draining basket comprised of open weave material having inverted U-shaped lifting handles swingingly secured adjacent each end at the bottom of the basket, the depending ends of each of said handles bearing an inwardly formed hook-shaped portion which is adapted to extend into the confines of the side wall of the basket between the upper and lower portions thereof when the handles are moved in approximately vertical positions against the outside of the basket.

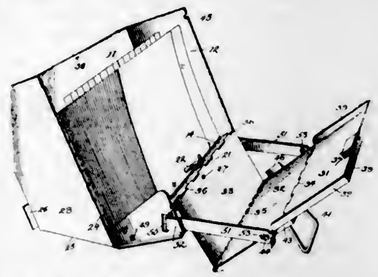
1,382,522. MACHINE FOR UNLOADING AND COUNTING COCOANUTS OR THE LIKE ARTICLES. ROBERT C. MCKEAND, Tampa, Fla. Filed Aug. 4, 1919, Serial No. 315,249. Renewed Nov. 26, 1920. Serial No. 426,608. 8 Claims. (Cl. 193—1.)

1. A counting mechanism including a depressible platform, a toothed counting disk, a flat spring having its free end adapted to engage with the teeth of said counting disk and actuated by said platform to advance the disk, a cam acting on said spring when the platform is de-



pressed to force the spring into contact with said teeth, and means for delivering the articles from said platform to receptacles, substantially as described.

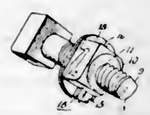
1,382,523. FILING DEVICE. JOHN L. MCMILLAN, Syracuse, N. Y. Filed July 17, 1919. Serial No. 311,394. 12 Claims. (Cl. 129—1.)



1. In a filing device, the combination of a box; leaf-engaging means mounted in said box; a lid for said box hinged thereto and including a plurality of sections hinged together, and adapted through such hinging to be adjusted to form an inclined tray when the lid is open; a brace serving to maintain a section of the lid in a fixed angular relation to said box, when the lid is open; hinged supporting brackets mounted on said box and lid; and means for fastening said lid closed.

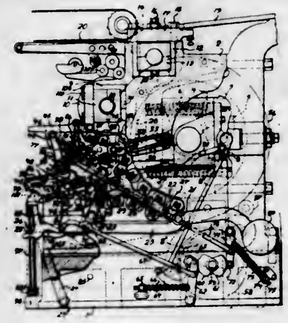
10. The combination of a box; a lid therefor; a leaf-retaining pin; a plurality of sockets for retaining said pin in position parallel to leaves contained in said box; and engaging means on said box and lid for retaining said pin in impaling relation to said leaves.

1,382,524. NUT-LOCK. ALLAN MACKINTOSH, Bowsman River, and FRED THOMPSON, Sydney Mines, Canada. Filed Aug. 9, 1920. Serial No. 402,498. 2 Claims. (Cl. 151—13.)



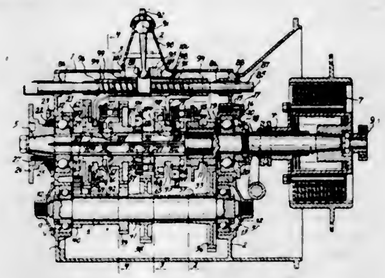
1. In combination with a bolt having its side flattened, of a washer having an opening corresponding to the outer circumference of said bolt, engaging means carried by said washer in such a position that the free ends of said engaging means may have their inner sides bent outwardly, a nut having notches cut in the inner side of same and adapted to be threaded onto said bolt and said notches adapted to receive the inner outwardly bent sides of said engaging members, said washer having an upper plain surface and both ends of said engaging means being turned up.

1,382,525. INKING MECHANISM FOR PRINTING-PRESSES. ROBERT MIEHLE, Chicago, Ill. Filed Sept. 25, 1918. Serial No. 255,551. 49 Claims. (Cl. 101—144.)



1. A printing press including an ink distributing mechanism; a cylinder in operable relation with said ink distributing mechanism and movable out of and into operable relation with said ink distributing mechanism; a second ink distributing mechanism; charging means for said ink distributing mechanisms; and mechanism for controlling said second ink distributing mechanism and said charging means and having connection with said cylinder and movable therewith and adapted to render said second ink distributing mechanism and said charging means inoperative when said cylinder is positioned out of operable relation with said first mentioned ink distributing mechanism.

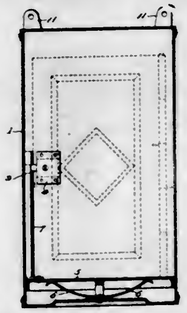
1,382,526. CHANGE-SPEED TRANSMISSION MECHANISM. ROBERT FRANK MIEHLE, Jr., Chicago, Ill. Filed Mar. 14, 1919. Serial No. 282,555. 19 Claims. (Cl. 74—59.)



1. A device of the character described including independently rotatable driving and driven members provided with interengageable teeth to form a driving connection therebetween and relatively movable to and away from each other to engage and disengage said teeth, and means for preventing movement of said members into tooth engaging position and adapted to be set to be operated to permit movement of said members into tooth engaging position by the relative rotation of said members first in one direction and then in the other direction prior to the engagement of said teeth.

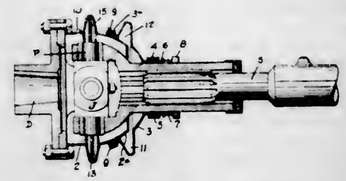
1,382,527. SAFETY-CABINET. ABEL MILLER and PHILLIP MILLER, Harrisonburg, Va. Filed Mar. 13, 1920. Serial No. 365,539. 2 Claims. (Cl. 232—41.)

1. A device of the class described comprising a casing having an entrance opening, a door for said opening, spring means for normally holding the door in closed position, a key operated spring lock for said door, a member for preventing the bolt of the lock from engaging its



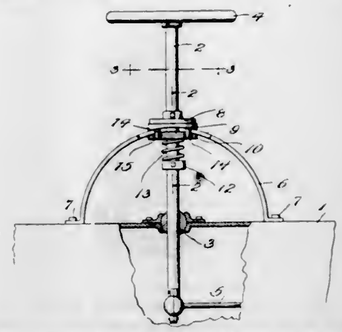
keeper and a spring supported receiving shelf in the casing connected with said bar and moving the same away from the keeper when an article is placed on the shelf.

1,382,528. UNIVERSAL-JOINT OIL-BOX. GEORGE EDWARD MILLER, Oakland, Calif. Filed Oct. 14, 1920. Serial No. 417,001. 13 Claims. (Cl. 64—102.)



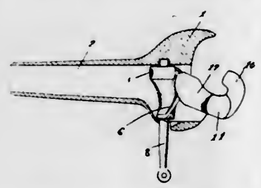
13. A universal-joint dust guard and oil box having cooperative sections each provided with a spherical working face, and an outwardly projecting channel forming means extending beyond the spherical portions of the sections so as to collect and retain lubricant and prevent its flowing to the running joint between the sections while the box is rotating, these sections having packing means at their meeting portions.

1,382,529. LEVER-LOCK. SAMUEL S. MORTON, Harrisburg, Pa. Filed May 20, 1920. Serial No. 382,856. 3 Claims. (Cl. 74—39.)



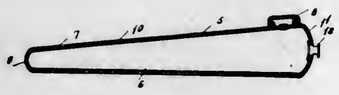
1. The combination with a shaft mounted for both rotary and pivotal movement; of a curved track extending transversely of said shaft, a friction brake movable along said track during the pivotal movement of said lever, a collar movable with said shaft when the latter is rotated, and spring means for engaging said collar with said friction brake and for holding the latter in frictional contact with said track.

1,382,530. CAR-COUPLING. LAWRENCE A. MURPHY, St. John, New Brunswick, Canada. Filed Aug. 9, 1920. Serial No. 402,475. 2 Claims. (Cl. 213—10.)



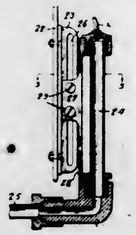
1. A car coupler comprising a body portion having a fixed jaw, a member rotatably mounted in the body portion having an arcuate lateral wall and a portion of the periphery cut away and a cam race formed on the said member, an arm pivotally mounted to the body portion and having an inwardly extending end having cam surface coacting with the cam race on the rotatable member, the outer end of the arm being bent to form a jaw as and for the purpose specified.

1,382,531. MATTRESS. JOHN C. NEWBORN, Hagerman, N. Mex. Filed Jan. 10, 1919. Serial No. 270,491. 1 Claim. (Cl. 5—1.)



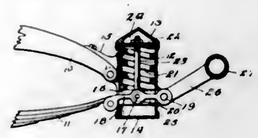
A mattress comprising an elongated body constructed from air retaining material and having one of its end walls of a less height than the other end wall so that the top wall will be disposed on an incline when said body rests on a flat support, a fabric cover for said body, means whereby said body may be inflated and deflated, an elongated strip extending transversely of the body adjacent one end and having its end and side edges secured to said body to form a pillow, said body having an opening to permit air to enter said pillow from said body.

1,382,532. LIQUID-GAGE. RICHARD T. NEWTON, New York, N. Y. Filed Jan. 11, 1919. Serial No. 270,668. 1 Claim. (Cl. 73—54.)



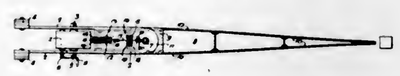
In an automobile, a dash-board gage device comprising a bracket secured to the dash, a gage glass vertically adjustable on said bracket, a liquid tank, piping connecting the lower portion of the gage glass with the tank below the liquid level therein, and constantly open, and piping connecting the tank above the liquid level therein with the upper portion of the gage glass to equalize the pressures in the glass and tank, in combination with valve means in the liquid piping to halt the flow through said piping when the car is on predetermined grade.

1,382,533. VEHICLE. RICHARD T. NEWTON, Nutley, N. J. Filed May 18, 1914. Serial No. 839,471. 17 Claims. (Cl. 267—29.)



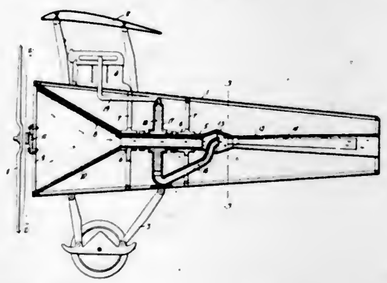
17. A shock eliminator adapted to be operatively interposed between the running gear and body of the vehicle, said device comprising a shock eliminator spring housing, means for securing the same to one of said members, a lever pivotally connected to the other of said members and to a lateral extension of the housing, a spring within said housing and an operative connection between said lever and spring to freely resist relative vertical displacement of said running gear and vehicle body.

1,382,534. SAFETY-GATE FOR RAILROAD-CROSSINGS. JOHN W. OELENSCHLAGER and VICTOR B. ARKLESS, Norristown, Pa. Filed Apr. 26, 1920. Serial No. 376,657. 2 Claims. (Cl. 39—92.)



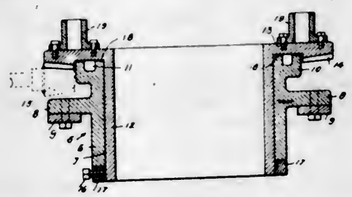
1. The combination in a safety gate for railway crossings of a standard; a body portion of a gate pivoted to the standard; means for operating the gate; a vertical pivot pin on the body portion; a pivoted section consisting of a hub and extensions mounted on the pivot pin; a centrally located spring on the body portion; a rod extending through the spring and having a head bearing against the spring; a rope attached to the rod and connected to the hub; and guides for the rope, said spring tending to hold the pivoted section yieldingly in line with the body portion of the gate so that it will yield in either direction under pressure.

1,382,535. AEROPLANE. GEORGE CYRUS OFFEN, Moose Jaw, Saskatchewan, Canada. Filed Aug. 21, 1920. Serial No. 405,146. Renewed Apr. 28, 1921. Serial No. 465,244. 6 Claims. (Cl. 244—25.)



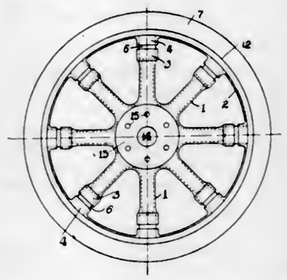
5. The combination with an airship, of a tubular shaft, a bell mouth at the inlet end of said shaft, a propeller secured to said bell mouth, an exhaust pipe communicating with the rear end of the tubular shaft, a fluid motor on the tubular shaft, a motor or generator, a fluid directing pipe connecting the generator with the fluid motor, and an exhaust pipe connecting the fluid motor with the first mentioned exhaust pipe whereby the movement of air through the shaft and exhaust pipe operates to create a suction through the fluid motor and utilize the power thereby created.

1,382,536. ROTARY TABLE. JAMES H. OKELL, Los Angeles, Calif., assignor to Okell Well Machinery Company, Los Angeles, Calif., a Copartnership consisting of Cora M. Lane and George E. Okell. Filed Mar. 20, 1920. Serial No. 367,330. 1 Claim. (Cl. 64—56.)



A rotary table, comprising a bearing sleeve provided on its upper end with an annular groove and a plurality of radial grooves formed on the upper end of said sleeve and intersecting said annular groove, a boring sleeve provided with a flange adapted to rest on the upper end of said bearing sleeve, and detachable means secured to the lower end of said boring sleeve for maintaining the flange of the boring sleeve in contact with the upper end of the bearing sleeve.

1,382,537. RESILIENT WHEEL. NELS L. OLSON, Highland Park, Mich. Filed Mar. 24, 1919. Serial No. 284,656. 1 Claim. (Cl. 152—28.)



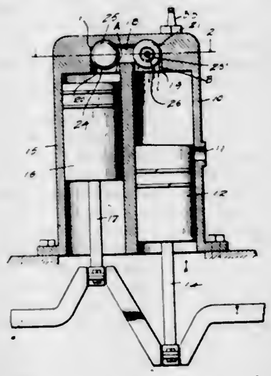
A wheel comprising a body, resilient members in the periphery of said body and protruding therefrom, an apertured rim about said body and having the apertures thereof equally spaced, and cylindrical open end pockets integral with said apertured rim at the apertures thereof and through which said resilient members protrude so that said members may have the outer ends thereof compressed, and a pressed on tire rim about the apertured rim compressing the resilient members and permitting of said resilient members being mounted in the periphery of the wheel body without removing the apertured rim.

1,382,538. SIZER AND GRADER. ARTHUR M. O'QUINN, Miami, Fla. Filed July 30, 1920. Serial No. 400,058. 3 Claims. (Cl. 130—32.)



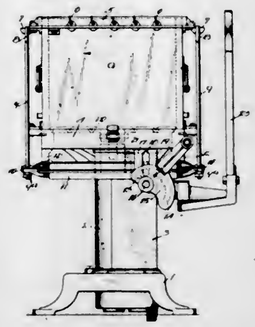
1. In a sizer and grader, a track comprising a plurality of members movable for adjustment; a sizing device including a part supported by said members; and means for adjusting said members simultaneously.

1,382,539. TWO-CYCLE MOTOR. EDWARD C. PANNING and FERDINAND A. ISERN, Ellinwood, Kans. Filed May 20, 1919. Serial No. 298,379. 2 Claims. (Cl. 123—70.)



1. A two-cycle motor comprising a block having combustion and charge forming cylinders, a head for said cylinders having combustion and charge forming chambers, one of the ends of said chambers communicating with the combustion and charge forming cylinders respectively and their other ends opening outwardly through the head, bases threaded in said chambers closing the last named ends thereof, check valves carried by said bases for controlling the passage of fuel through the chambers, said chambers communicating with each other between the valves, said charge forming chamber having an intake port, and working and charge forming pistons in the combustion and charge forming cylinders respectively.

1,382,540. BUTTER-CUTTER. WILLIAM E. PENN, Watertown, Wis., assignor to The Creamery Package Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Original application filed June 12, 1914, Serial No. 844,618. Divided and this application filed Oct. 11, 1918. Serial No. 257,694. 11 Claims. (Cl. 31—65.)



1. In a butter-cutter, in combination, a support for a butter box, a cutter frame adapted to rest upon the top of the box, a frame pivoted to said support, rods arranged to connect opposite sides of the cutter frame to opposite sides of said pivoted frame, and means for moving said pivoted frame to exert traction upon the rods.

3. In a butter-cutter, a frame upon which the lower end of a box may be placed, a cutter frame adapted to fit upon the upper end of the box, an element pivotally supported below the first mentioned frame, a plurality of rods engaged by said element and adapted to engage the cutter

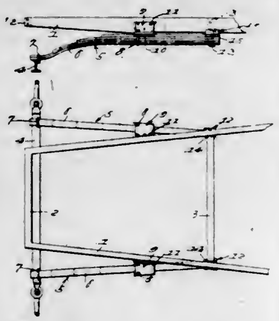
frame, and means for pivotally moving said element, whereby said cutter frame is securely held in position.

6. In a butter-cutter having a movable platen, means for raising and lowering said platen comprising, in combination, a single manipulative control element, means whereby actuation of said element through a predetermined displacement in either direction will raise said platen, means normally operative to prevent lowering said platen and means whereby displacement of said element beyond the normal displacement in either direction will release said preventing means, said raising and lowering means operating by liquid displacement whereby the lowering of said platen is strongly damped.

10. In a butter-cutter having a movable platen, means for raising and lowering said platen comprising, in combination, a manually actuated transmission having a locking action without backlash for raising said platen, manually controlled means for allowing said platen to move downwardly with a strongly damped motion, and a single manipulative element receiving power for the operation of said raising means and controlling said lowering means, said raising means and said lowering means having certain elements in common.

11. In a butter cutter having a movable platen, manual means for raising said platen, manually controlled means for releasing said platen to allow it to descend, and means beyond the control of the operator for damping the descent to limit the speed of the same.

1,382,541. CANTALIVER FRONT SPRING. STEPHEN P. PESZNECKER, Estacada, Oreg., assignor of one-half to Dr. H. V. Adix, Estacada, Oreg. Filed Apr. 3, 1919. Serial No. 287,146. 1 Claim. (Cl. 267—41.)



The combination with the forward axle and chassis frame of an automobile, of leaf springs arched at their forward ends and connected with the axle, a bearing brace for the rear ends of the springs, the said bearing brace consisting of plate-like bodies with spaced parallel flanges straddling the side rails of the chassis to which the plate like bodies are secured the said members being further formed with depending spaced parallel flanges disposed at an angle to the first named flanges and receiving between them the rear ends of the springs, and intermediate bearing brackets secured to the side rails of the chassis and provided with spaced depending flanges straddling the springs at intermediate points in the manner and for the purpose specified.

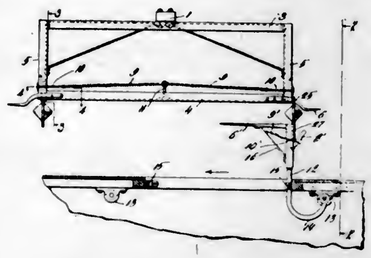
1,382,542. MEANS FOR REMOVING COTTON DROPPINGS FROM FLOORS. SAMUEL E. PHALOR, Columbus, Ohio, assignor of one-half to Riley H. Bean, Columbus, Ohio. Filed Sept. 16, 1920. Serial No. 410,730. 6 Claims. (Cl. 19—7.)

4. Means for feeding material along a horizontal surface and up an inclined one comprising, in combination, a slide open fore and aft at its lower side, a material-feeding blade hinged to the front of the slide, a second feeding blade in advance of the first mentioned blade hinged to the slide movable on its hinge independently of movement of the first mentioned blade, means for reciprocating the



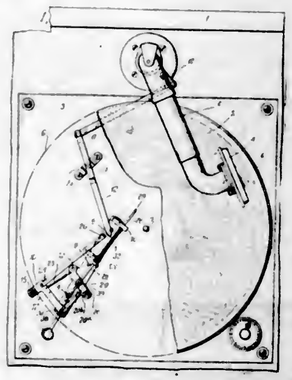
slide and operating the first mentioned blade, and means supporting the second mentioned blade in elevated position upon the non-feeding stroke of the slide.

1,382,543. MAIL DELIVERING AND CATCHING DEVICE. HENRY S. PRETE, Devils Lake, N. D. Filed June 22, 1920. Serial No. 390,755. 4 Claims. (Cl. 258—26.)



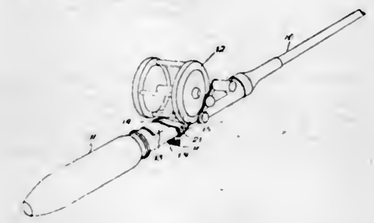
1. In a device of the class described the combination of a support, an arm extending from said support and formed of U-shaped angle iron, a block pivotally carried at the extremity of the arm, means for normally holding said block in a closed position, and a mail pouch attachment comprising a shank adapted to be received in the groove of the arm and to be held therein by the block.

1,382,544. AUTOMATIC STOP FOR PHONOGRAPHS. RICHARD JAMES PRETTIE, Jamaica, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Mar. 24, 1915. Serial No. 16,673. 21 Claims. (Cl. 192—116.)



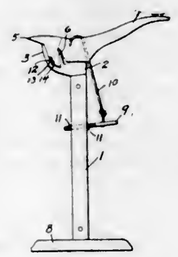
1. In combination, a rotatable record support, a sound-box mounted to move across a record on said support, a member carrying a brake normally tending to move into braking engagement with said record support, a latch to coöperate with said member and to hold said brake off, a pair of opposed members, one having a variable frictional connection to said latch and the other connected to the brake-carrying member, and a finger operatively connected to the movable sound-box and pivoted to swing to-and-fro in a plane beneath the record supporting means, said finger acting during its movement in one direction to trip the latch and cause the brake to engage the record supporting means and acting during its movement in the opposite direction to set the brake in its off position.

1,382,545. FISHING-REEL CLAMP. MITCHELL D. PRICE, Miami, Fla. Filed Oct. 22, 1920. Serial No. 418,829. 6 Claims. (Cl. 43—22.)



1. A clamp comprising a main member, a second member provided with studs projecting from the free ends thereof for pivotally and removably securing said second member to said main member and means for adjustably securing the free ends of said main member.

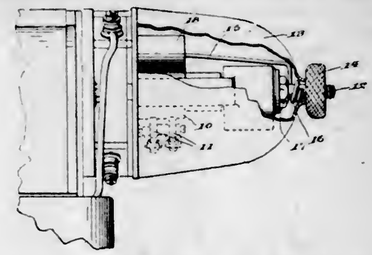
1,382,546. SHOE-REPAIRING STAND. THOMAS RENDLE, Ottawa, Ill. Filed Aug. 19, 1920. Serial No. 404,674. 2 Claims. (Cl. 12—123.)



1. The combination in a shoe repairing stand, of a standard having a rigidly fixed cleat at the rear, said cleat having a groove at each side, and a perforation, a heel-part having a slot with an arm at each side to coöperate with the grooves of the cleat and indentures at the rear, said indentures to coöperate with the perforation, and a pin in said cleat, whereby the said heel-part is securely held, a spindle on said standard having a set of V shaped grooves, and a last member having a circular socket and a V shaped ridge at each side to coöperate with the V shaped grooves, whereby the last may be held in different positions with regard to said heel-part, substantially as described.

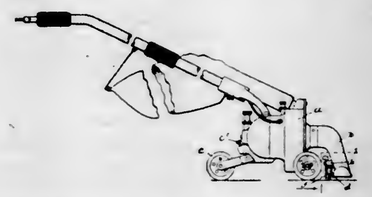
1,382,547. COMMUTATOR-CLEANER. MATTHEW W. ROBERTS, Lumberton, Miss. Filed Mar. 28, 1921. Serial No. 456,367. 1 Claim. (Cl. 171—321.)

The combination with threaded stem of an electric motor which holds the protective casing of the commutator, and the nut thereof, of a commutator cleaner comprising a wire shank disposed horizontally and longitudinally over the commutator and having on its outer end an angularly turned eye engaged on the said threaded stem, and a roll of soft material carried by the other end of the shank and bearing against the face of the commutator, the shank



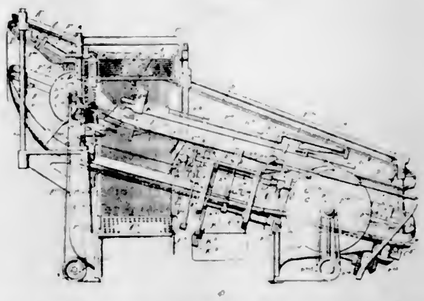
being possessed of flexibility to maintain the soft material in contact with the commutator.

1,382,548. SUCTION CLEANING APPARATUS. FRANK E. ROBERTSON, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 22, 1916. Serial No. 110,689. 11 Claims. (Cl. 15—60.)



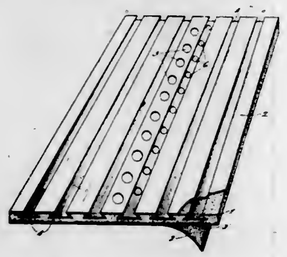
1. The combination with an air-current cleaning nozzle, of a spring tensioned to resist the pressure normally induced by the air, a brushing member normally protruded thereby into positions of coöperation with said nozzle exteriorly of its rear edge, and exteriorly accessible means for actuating said member to hold it in inoperative position, substantially as set forth.

1,382,549. TYPOGRAPHICAL MACHINE. JOHN RAPHAEL ROGERS, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed July 26, 1918. Serial No. 246,805. 118 Claims. (Cl. 199—13.)



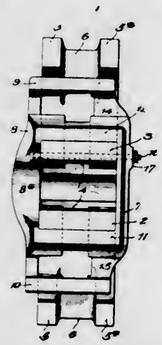
10. In an organized typographical composing and casting machine comprising matrices, the combination with means for composing the matrices in line, and means for casting a line of type therefrom, of means whereby the succeeding type lines may be cast either in the form of integral bars or slugs, or of separate and independent sections, and means for ejecting the type lines from the mold.

1,382,550. PLASTER-BOARD. ORVILLE L. ROUTT and GROVER C. MCCONNELL, Los Angeles, Calif., assignors to Plastoid Products, Inc., Los Angeles, Calif., a Corporation of California. Filed Nov. 19, 1917. Serial No. 203,040. 1 Claim. (Cl. 72—124.)



An article of manufacture comprising a plaster board formed of plastic material with a series of continuous channels therein, said channels having overhanging side walls forming restricted longitudinal and uninterrupted openings into said channels, and a continuous paper covering conforming to the inner surfaces of the channels, said paper covering extending over the board between the channels and into the channels and wholly covering the bottom and overhanging side walls thereof, the paper covering adhering to the board as a part thereof and serving to reinforce the same at its channel portions, said reinforced channels constituting means for holding plaster on the outer face of the board, substantially as described.

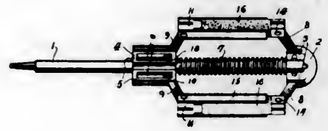
1,382,551. BRAKE. CHARLES V. ROTE, Lancaster, Pa., assignor of one-half to E. W. Brown, Lancaster, Pa. Filed Apr. 26, 1920. Serial No. 376,581. 10 Claims. (Cl. 188—245.)



1. A brake comprising a head provided with means for attachment to a beam and having on its forward face a plurality of spaced, forwardly extending projections, abutments positioned between said projections adjacent one side of the head, a shoe provided with spaced projections on its rear face adapted to enter the spaces between the projections on the face of the head and to permit the shoe to be bodily moved laterally to and from engagement with the head, such lateral engaging movement being limited by said abutments, and a removable key extending through the projections on the head and shoe and normally preventing separation thereof.

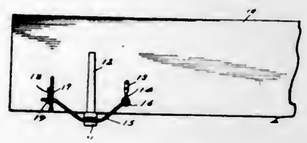
1,382,552. LAPPING-TOOL. CLARENCE SCHERER, Center, N. D. Filed June 29, 1920. Serial No. 392,630. 1 Claim. (Cl. 51—191.)

A lapping tool comprising a shank having its outer end rounded and forming a head, equidistantly spaced pairs of ears carried by the head and extending inwardly, the same being arranged in parallelism with respect to the shank, radially disposed links pivotally secured to said pairs of ears, a sleeve slidably mounted on the shank, equidistantly spaced radially disposed ears carried by the sleeve having elongated slots therethrough, a light helical



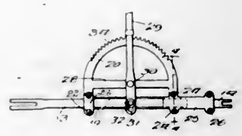
spring between the head and sleeve, radially disposed links slidably mounted in the slots of said sleeve, weighted jaw members pivotally connected to the opposed links of the sleeve and head, and an abrasive element clamped to the outer face of the jaw members, substantially as described.

1,382,553. WAGON ATTACHMENT. WALTER SCHLESENER, Hope, Kans. Filed June 15, 1920. Serial No. 389,133. 1 Claim. (Cl. 296—35.)



The combination with a wagon body and a bolster therefor, of a longitudinally curved rod having one end terminating to provide a loop whereby said rod is pivotally mounted upon the wagon body in advance of the bolster, said rod being adapted to pass over the bolster and terminating to provide a straight portion, and a hook-like element vertically disposed upon the wagon and pivoted at its upper end for swinging movement, whereby said hook can be slipped over the adjacent end of the rod when the latter is positioned for use.

1,382,554. ADJUSTABLE DRAFT CONNECTION. GERALD SCHMID, JOSEPH SCHMID, ANTON E. BRICHACEK, and HUGH TULLY, Schuyler, Nebr. Filed Mar. 8, 1919. Serial No. 281,566. 2 Claims. (Cl. 287—58.)



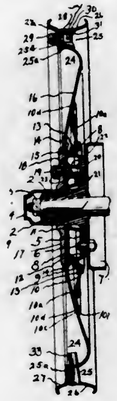
1. In combination, parallel bar sections arranged side by side, a flanged guide interposed between the bar sections and slidably receiving one section, a rack segment having offset ends embracing the other bar section, means rigidly connecting said offset ends, second mentioned bar section and guide, plates secured to the offset ends of the segment engaging the flanges of the guide and confining the first mentioned bar section therein, a brace rod carried by the segment, and a lever pivotally secured to the brace rod and engaged with one of the slidable bar sections for actuating the latter.

1,382,555. CALF-WEANER. HENRY J. SCHMOLL, Racine, Wis. Filed Dec. 28, 1920. Serial No. 433,600. 3 Claims. (Cl. 119—132.)



1. A device of the character described comprising a nose engaging member including a pair of slidably engaged separable sections formed with mating openings, and a plate carrying a hook engageable through said openings.

1,382,556. DISK WHEEL. FRED. C. SCHOENTHAL, Buffalo, N. Y. Filed Nov. 7, 1919. Serial No. 336,337. 8 Claims. (Cl. 301—63.)



8. A disk wheel made up of a plurality of disks comprising a main disk, an auxiliary disk bearing at its periphery against said main disk and a backing disk bearing at its periphery against said auxiliary disk.

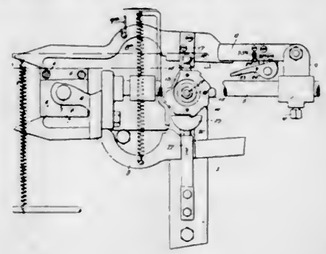
1,382,557. PORTABLE TRUCK. ARTHUR G. SCHPATZ, Milwaukee, Wis. Filed Feb. 28, 1919. Serial No. 279,686. 6 Claims. (Cl. 193—3.)



1. In a device of the class described, the combination with a supporting base member and a conveyer frame member tiltably carried thereby, of means at all times normally yieldingly urging said conveyer frame member to a substantially horizontal position.

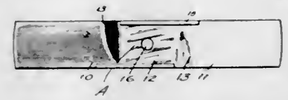
1,382,558. JACQUARD MECHANISM. ADAM F. SCHULER, Philadelphia, Pa. Filed Apr. 9, 1918. Serial No. 227,528. 4 Claims. (Cl. 139—16.)

1. In jacquard mechanism for looms, the combination of a reciprocating cylinder; a clawker; a cam for raising the clawker into an inoperative position; a ratchet for said cam mounted with the latter in position to directly



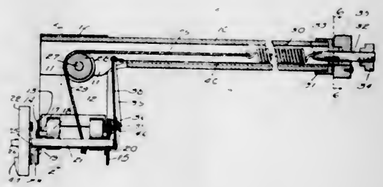
operate on the clawker; and a pawl for intermittently turning the ratchet and cam to cause the clawker to operate on the cylinder on alternate strokes only.

1,382,559. FLYING TOY. FERDINAND H. SCHULTZ, Treynor, Iowa. Filed Oct. 9, 1920. Serial No. 415,730. 4 Claims. (Cl. 244—19.)



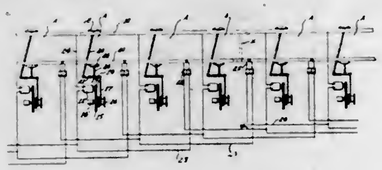
1. A flying toy comprising a resilient strip, having a flat central portion and having blades projecting in opposite directions therefrom, said central portion having reinforcing parts at its side edges, one reinforcing portion being arranged to overlap a part of one edge of one blade, and the other reinforcing portion being arranged to overlap a part of one edge of the other blade.

1,382,560. FLYING-TOY GUN. FERDINAND H. SCHULTZ, Treynor, Iowa. Filed Oct. 9, 1920. Serial No. 415,731. 10 Claims. (Cl. 244—2.)



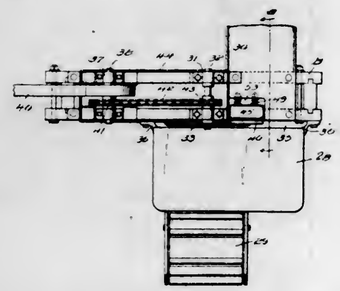
10. In a device of the class described, a tubular member, laterally extending supports thereon, a shaft rotatably and slidably mounted on said supports, roller bearing devices for said shaft, a block on said shaft, coacting engaging means on said block and said supports, means on said block and one of said supports for coacting engagement, engaging members for a flying toy on said block, a guide supported on said tubular member, a flexible device secured to said spring and extended over said guide and secured to said shaft, a cap on said tubular member, a rod mounted in said cap and secured to said spring, a movable trigger device adapted when moved to one position for normally holding the trigger device inoperative, and means for moving said trigger device to operative position, said means including a flexible member extended through said tubular member and a member slidably mounted on said rod and secured to said last flexible member.

1,382,561. TRAIN CONTROL. CHARLIE SHARP, Dizney, Ky. Filed Jan. 17, 1921. Serial No. 437,978. 2 Claims. (Cl. 246—183.)



1. In an automatic train stopping apparatus, the combination with the lines of rails of the trackway divided into blocks, and of mechanism located in each block and comprising a motor, a drum, driving connections between said motor and drum, shoes capable of vertical movement, a lever pivoted at a point between its ends, connecting rods associating the shoes with said lever, a connection between said lever and drum, and an electric circuit including said motor and a source of energy and adapted to be closed by the wheels and axles of a train in another block.

1,382,562. SHEAF-CUTTING MACHINE. HENRY SIEBERT, Ulm, Ark. Filed Mar. 2, 1920. Serial No. 362,779. 2 Claims. (Cl. 146—29.)



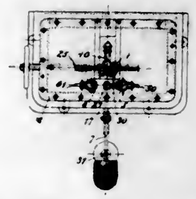
1. In a machine of the class described in combination with an open frame, power operating means and a rotatable shaft carried by said frame, a rotatable cutter carried by said shaft, a raised platform and an inclined discharge chute connected to said frame, said cutter operating between the platform and the inclined chute, said chute having a cut out corner portion for receiving an adjustable ledge blade, and means for adjusting said blade in a plurality of positions with respect to said cutter.

1,382,563. EXPLOSIVE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Nov. 3, 1920. Serial No. 421,475. 16 Claims. (Cl. 52—4.)

8. A booster composition comprising nitrostarch desensitized by means of a hydrocarbon body, and consolidated by means of a waxy material.

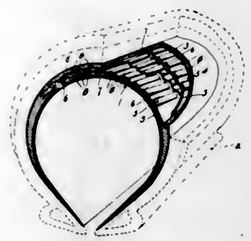
1,382,564. PULLING-OVER MACHINE FOR BOOTS AND SHOES. MARIUS METHILTUS SÖRENSEN, Valleröd, near Rungsted, Denmark. Filed July 12, 1919. Serial No. 310,444. 2 Claims. (Cl. 12—9.)

1. A pulling-over machine consisting of a support for the last, members for gripping the side parts of the upper members for gripping the toe-part of the upper, arms on the first-named gripping members having hook-shaped engaging elements, means for actuating these arms, first, closing the gripping members and then moving them in the direction of the pulling-over by actuating said engaging elements, an arm on the gripping members for said toe-part having a straight prolongation, means for actu-



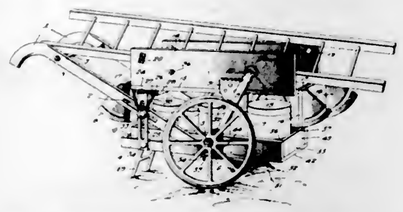
ating this arm to close the gripping members and for holding them closed by following said straight prolongation, and a common moving member for said means.

1,382,565. ARMORED LINER FOR TIRES. HANS C. STOCKEL, Chicago, Ill. Filed Sept. 17, 1920. Serial No. 410,892. 3 Claims. (Cl. 152—18.)



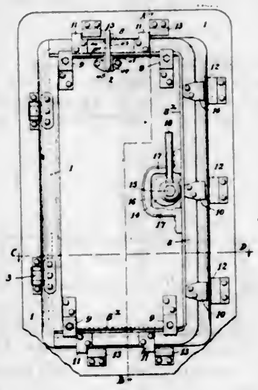
1. An armor for pneumatic tires comprising a plurality of elongated narrow plates of elastic metal, and narrow tongues connecting the plates in strip formation with their longitudinal sides in relatively spaced relation and adapted to hold said plates in spaced relation when the armor is curved transversely.

1,382,566. CONVERTIBLE WHEELED VEHICLE. DAVID STRAUCH, Crestline, Ohio. Filed Nov. 8, 1920. Serial No. 422,603. 11 Claims. (Cl. 280—30.)



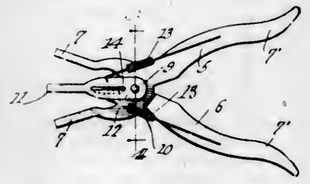
11. In a convertible vehicle, the combination of a frame including straps having inwardly reaching rear arms, axles carried by the frame, ground wheels on the axle, handles connected with the frame at points adjacent to the axle, a platform detachably connected at its rear end with the inwardly reaching arms of the said straps, a body connected with the frame and equipped with means to support its forward portion from the axles, and a collapsible supplemental frame arranged on and detachably connected to the platform and having recesses in the outer sides of its side bars to receive the inner portions of the axles, whereby the collapsible frame is supported directly by the axles; the said body and the said platform each having a swinging prop at its underside, and a keeper to detachably retain said prop in idle position.

1,382,567. CLOSURE-FASTENER. ORSINI STUART, Liverpool, England. Filed Oct. 16, 1919. Serial No. 331,097. 4 Claims. (Cl. 292—150.)



1. The combination of a door frame, a door hinged thereto, a shiftable locking frame and coacting keeper, one mounted on the door frame and the other on the door; a releasable interlock device operatively related to said locking frame to retain the same in disengaged position; and means operated by the movement of the door near the limit of its closing movement serving to release said interlock and permit movement of said frame.

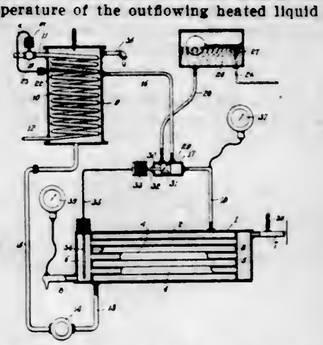
1,382,568. COMB. JUDGE SWAN, Hamilton, Ontario, Canada. Filed Apr. 24, 1920. Serial No. 376,414. 3 Claims. (Cl. 132—37.)



1. In a device of the character described, opposed sections pivotally connected together, each of said sections including a handle, and a jaw, a central jaw pivotally connected to one of the opposed sections, resilient means connecting the handles and central jaw for normally holding the jaw sections in spaced relation with each other.

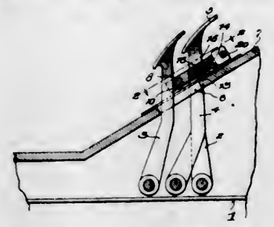
1,382,569. TEMPERATURE-CONTROLLER. GODFREY M. S. TAIT, Washington, D. C., assignor to American Pasteurizer Company, Inc., Washington, D. C., a Corporation of Virginia. Substitute for application Serial No. 148,642, filed Feb. 14, 1917. This application filed Nov. 20, 1920. Serial No. 425,369. 2 Claims. (Cl. 236—12.)

1. Apparatus such as described comprising a heat exchanger adapted to exchange heat between a heating fluid and a fluid to be heated, means for the supply of heating fluid to such exchanger comprising a primary heater, means for regulating the temperature of the outflow therefrom, a source of cold fluid, a mixing device adapted to mingle the warm fluid from the primary heater and the said cold fluid and arranged to discharge the mixed fluid into a heating space of said heat exchanger, said mixing device comprising also regulating valve means whereby the proportion of heated fluid to cold fluid may be varied, and automatic means, controlled by the temperature of the outflowing heated liquid of the



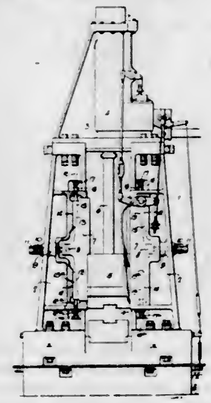
heat exchanger, for regulating the said valve means of the mixing device.

1,382,570. AUTOMOBILE-LOCK. ELMER A. TANNER, Delta, Iowa. Filed Jan. 14, 1920. Serial No. 351,443. 1 Claim. (Cl. 70—126.)



A locking device for transmission controlling levers having a body portion, the forward end of which is tapered, the apex of the body being cut away to provide a relatively large socket adapted to receive and engage one of the controlling levers, the opposite side of the body having spaced sockets therein with inclined walls, said body also having a projection extending from the central part thereof, and a yoke coöperating with said projection, and having pockets therein receiving with the inclined sockets the other controlling levers.

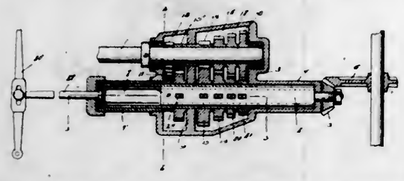
1,382,571. STEAM-HAMMER GUIDE. HOWARD TERHUNE, Cleveland, Ohio. Filed July 7, 1920. Serial No. 394,499. 3 Claims. (Cl. 78—37.)



3. The combination in a steam hammer, of two standards spaced apart, each standard having a longitudinal

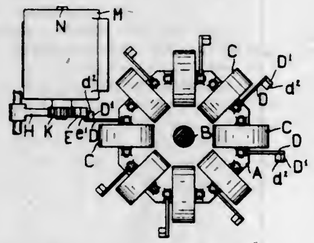
recess; a hammer head; pivoted guides for the head located in the recesses in the standard; a longitudinal wedge between each end of each guide; a bearing face in the recess; and means for adjusting the wedges.

1,382,572. TRANSMISSION-GEARING. FRANK G. THOMAS, Astoria, Oreg. Filed Apr. 5, 1920. Serial No. 371,284. 1 Claim. (Cl. 74—59.)



Transmission means of the class described comprising a casing having a partition therein, a drive shaft extending into said casing, gears keyed to said part of the shaft within the casing, a sleeve mounted on said shaft and extending through the partition, a gear formed at each end of said sleeve, a stub shaft mounted in the casing, reversing gears carried thereby, one of which engages one of the gears on the sleeve, a driven shaft in the casing, extensions on the casing inclosing the ends of said driven shaft, a sleeve having sliding movement on the driven shaft and located within the casing and its extensions, said sleeve having a slot therein having beveled ends and the driven shaft having recesses therein, spring pressed keys in said recesses and adapted to project from the slot in the sleeve when said sleeve is moved to bring the slot into register with said key, gears rotatably mounted on the sleeve and meshing with the gears on the drive shaft and with one of the reversing gears and a hand lever for moving the sleeve on the driven shaft.

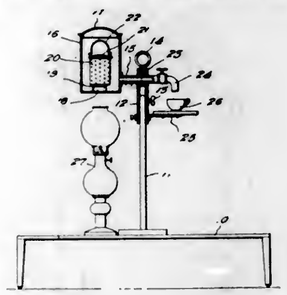
1,382,573. STAMP-DELIVERY MACHINE. HERMANN THUN, Essen-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,089. 4 Claims. (Cl. 235—91.)



3. A stamp delivery machine having a plurality of stamp rolls, in combination with a counter, said counter comprising a drum provided with figures for indicating the value of the stamps delivered, rods mounted adjacent said stamp rolls, shoulders formed on said rods, said shoulders being formed at graduated points from the ends of said rods, a pinion carried by said drum, a rack for operating said pinion, the shoulders on said rods cooperating with said rack to limit the rotation imparted to said drum, corresponding to the value of the stamp delivered.

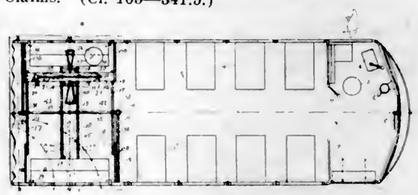
1,382,574. COFFEE-COOKING DEVICE. ANTONNIO TORTORICE, Lutcher, La. Filed Feb. 27, 1920. Serial No. 361,761. Renewed Feb. 8, 1921. Serial No. 443,495. 1 Claim. (Cl. 53—3.)

A device of the character described comprising a support, a standard rising therefrom, a vertically adjustable bracket mounted upon said support, a drip receiving tray carried by the bracket, a handle on the bracket, an arm extending from one side of the bracket and carrying a cylindrical casing, said arm being hollow and communi-



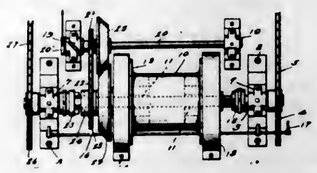
cating with the interior of the casing and with a passage extending through the bracket, a faucet carried by the bracket and communicating with said passage, a perforated container within said casing adapted to contain coffee, and means for applying heat to said casing.

1,382,575. TURNSTILE. CONRAD D. TRUBENBACH, Mount Vernon, and Diedrich Baldwin Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company, a Corporation of New York. Original application filed Dec. 26, 1918, Serial No. 268,275, now Patent No. 1,339,076, dated May 4, 1920. Divided and this application filed Apr. 7, 1920. Serial No. 371,813. 17 Claims. (Cl. 105—341.5.)



1. The combination with a turnstile, of a platform, a track laid upon said platform, wheels on the turnstile registering with the said track and permitting the turnstile to be moved from its normal operative position to a second operative position.

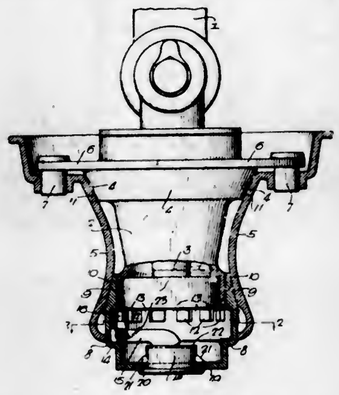
1,382,576. HOISTING-MACHINE. CLYDE UHL, Bartlesville, Okla. Filed Sept. 7, 1918. Serial No. 253,053. 1 Claim. (Cl. 254—166.)



In a hoisting apparatus, a wheeled truck having a platform and also having a driving element, a hoisting organization mounted on the said platform and including a main drive shaft, a drum loose on said shaft, a driving connection intermediate the said driving element of the truck and the shaft, a driving connection intermediate of one of the ground wheels of the truck and said shaft, a clutch to connect the drum directly to the shaft, a bevel-face friction gear fixed to the drum, a counter shaft, a bevel-face friction gear fixed on the counter shaft and

contacting with the first-named bevel-face friction gear, a clutch member loose on the first-named shaft and connected with the counter shaft, and a clutch member feathered on the first-named shaft and movable into and out of engagement with said loose clutch member.

1,382,577. FASTENER FOR WHEEL-HUB CAPS. JACQUES L. VAUCLAIN, Haverford, and ANDREW C. VAUCLAIN, Philadelphia, Pa. Filed Jan. 6, 1921. Serial No. 435,384. 6 Claims. (Cl. 301—108.)



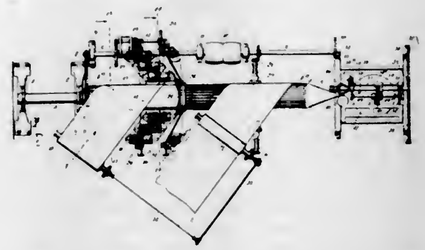
1. The combination of a hub; a wheel hub mounted thereon; a cap and means for holding the cap to the hub, said cap acting to retain the wheel hub on the hub; an internal locking device carried by the cap and arranged to engage one of the fixed parts, said cap having an opening and a lock casing arranged to project into the opening and engage the locking device; and means for securing the lock casing to the cap.

1,382,578. FRAME AND SASH CONSTRUCTION. THOMAS E. WALKER, Detroit, Mich., assignor to Crittall Casement Window Co., Detroit, Mich., a Corporation of Michigan. Filed Aug. 1, 1919. Serial No. 314,606. 9 Claims. (Cl. 189—69.)



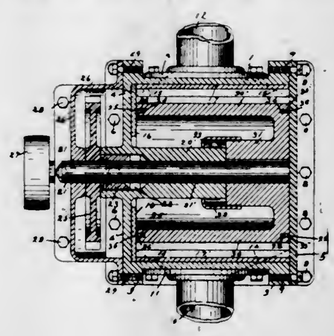
1. In a window construction, a channel frame having inner and outer legs provided with beveled faces, outwardly opening sashes in said frame, means transversely of said frame hingedly supporting said sashes at points removed from the sides of said frame, each sash having channel rails with inner and outer legs providing beveled faces adapted to engage the beveled faces of said frame, the legs of said frame and sashes coöperating in providing spaces in said frame, and means in the spaces of said frame coöperating with the first mentioned means for supporting said sashes for adjustment relative to said frame.

1,382,579. REINFORCED TUBE AND BAG MAKING MACHINE. KURT WANDEL, New York, N. Y., assignor to Safepack Mills, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1918. Serial No. 266,545. 19 Claims. (Cl. 93—80.)



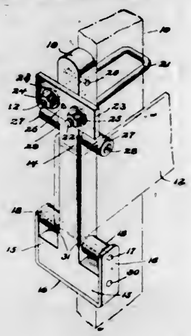
1. A machine for making non-self-sustaining tubes, comprising a mandrel mounted for rotation, and having means associated therewith for winding a web spirally thereon to form a continuous tube, means for flattening the tube and means for packing the flattened tube.

1,382,580. ROTARY PUMP. JOHN L. WEBB, Salt Lake City, Utah, assignor to Webb Pump Company, Salt Lake City, Utah, a Corporation of Utah. Filed May 26, 1919. Serial No. 299,801. 3 Claims. (Cl. 103—44.)



1. In a rotary pump having a casing projecting from a back wall and a hub projecting from the said wall, inwardly of the said casing, the projection of the said hub being less than the projection of the said casing, the combination of a shaft journaled in the said hub, a rotor hub rigidly mounted on the said shaft, the said rotor hub extending from the end of the said back wall hub to the end of the casing, a rotor body suitably carried by the said rotor hub, a wearing plate placed between the inner surface of the said back wall and the adjacent face of the said rotor body, bushings fitted inside the said casing and partially surrounding the said rotor body, lips projecting from the said bushings, the said lips seated in notches formed in the said casing, and a closure for said casing, the said closure at the same time serving to hold the rotor body and the bushing, in suitable operative position.

1,382,581. LUG-STRAP SUPPORT. RICHARD E. WELSH, New Bedford, Mass. Filed July 24, 1919. Serial No. 313,018. 2 Claims. (Cl. 139—48.)



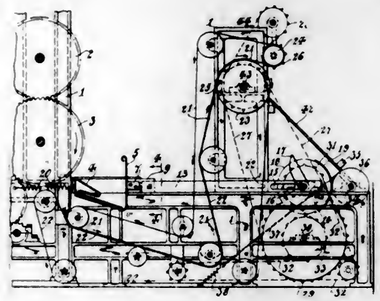
2. A lug strap support comprising a T-shaped wooden member adapted to fit longitudinally against the edge of a picker stick with the end cross arms projecting laterally, a flat metal strip fitting the bottoms and ends of the arms secured thereto and its ends projecting above said arms, spindles mounted at one end in said upwardly extending ends and at the other end in said longitudinal wooden section, rollers mounted on said spindles, and additional rollers on opposite sides spaced from and parallel to said first mentioned rollers, the said longitudinal portion between said sets of rollers being adapted to receive the lug strap and being rounded in cross section at the corners.

1,382,582. GLASS-GAGE PROTECTOR. WILLIAM J. WHITESIDE, Keewatin, Minn. Filed July 12, 1919. Serial No. 310,367. 1 Claim. (Cl. 73—54.)



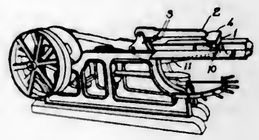
In a device of the class described, head members provided at their adjacent ends with polygonal extensions, projecting members extending between the head members and each comprising a section secured at one end to one face of the polygonal extension of one of the head members, and a section secured at one end to the corresponding polygonal face of the other head member, the sections overlapping and one of the sections being provided with marginal flanges to engage the lateral edges of the other section, one of the said sections being slotted longitudinally, a threaded stud carried by the other section and projecting through the slot, and a nut threaded upon the stud to bear against the slotted section.

1,382,583. DELIVERY MECHANISM FOR MACHINES FOR OPERATING ON PAPER. HOWARD G. WIDMER, Brooklyn, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a Corporation of New York. Original application filed May 11, 1917, Serial No. 167,855. Divided and this application filed May 4, 1918. Serial No. 232,607. 5 Claims. (Cl. 271—63.)



2. In paper delivery mechanism, the combination of a roll from which the paper is delivered in separate units; carrier tapes; and a reciprocating pan adapted to receive the paper units from the roll and deliver them to said tapes, said pan acting to move back from said roll after it has received the forward portion of a unit whereby the rear portion of the unit coming from said roll overhangs the front of the pan and is engaged first by said tapes.

1,382,584. LEATHER-WORKING MACHINE. CHARLES ARTHUR WILLIAMS, Torquay, England, assignor to Clark Son & Morland, Ltd., Glastonbury, England. Filed Sept. 24, 1918. Serial No. 255,493. 5 Claims. (Cl. 149—17.)

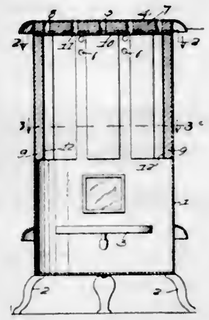


1. A staking machine of the Slocomb type comprising an upper arm, a lower arm, a table, means for reciprocating said arms over said table, a cutting tool mounted on said upper arm, a rolling out member mounted behind said tool adapted to roll out the inequalities in the skin being operated upon before the latter comes under the cutting tool, a large roll mounted on said lower arm adapted to coöperate with said rolling out member to hold the skin in an elastic grip and to co-act with said cutting tool, and secondary means on said lower arm for rolling out the skin in front of said large roll.

1,382,585. HEAT-STORING ATTACHMENT FOR STOVES. JOHN H. WILSON, Baltimore, Md. Filed Aug. 8, 1918. Serial No. 248,941. 1 Claim. (Cl. 126—85.)

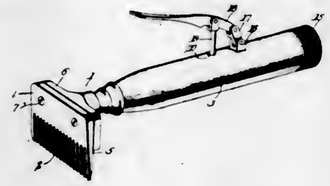
The combination with a stove having a hollow body, of a burner disposed within the stove near the bottom thereof, a perforated top closing the body at the upper end, a soapstone disk provided with perforations alining with the perforations in the top, the said disk lying against the latter and being disposed therebeneath, a copper disk lying against the soapstone disk and formed with perforations registering with the perforations in the soapstone disk, and a plurality of soapstone bars vertically positioned and

disposed around the interior surface of the body adjacent to the top and covered with copper, whereby the heat



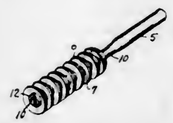
from the burner is communicated to the soapstone disk and bars to be gradually dispensed by the latter, as herein shown and specified.

1,382,586. COMB. JOHN WALTER WILSON, Indianapolis, Ind. Filed Jan. 18, 1921. Serial No. 438,213. 4 Claims. (Cl. 132—13.)



2. In a hair dying comb, a comb proper having a fabric sheet on the body portion thereof, the end of which being arranged over the teeth, a plate secured to the comb and compressing the edges and ends of the fabric against the body of said comb, a handle removably secured to the plate, a dye containing sack in the hollow handle having a reduced neck portion passing therethrough and disposed in contacting engagement with the fabric sheet, and means on the handle for compressing the sack to eject fluid therefrom onto the fabric.

1,382,587. TOOTHBRUSH. ROBERT MORSE WITHYCOMBE, Penshurst, near Sydney, New South Wales, Australia. Filed Mar. 15, 1920. Serial No. 365,835. 4 Claims. (Cl. 15—39.)



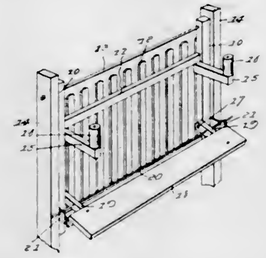
1. A device for cleaning the teeth and massaging the gums comprising a plurality of elastic disks having apertures formed therein, a shank of larger dimension than said apertures for passing through the latter whereby said disks when in assembled position are warped to a concaved formation on one side and means engaging the inner portions of said disks for preventing the longitudinal displacement thereof and permitting flexible movement of the teeth and gum engaging portions of the disks.

1,382,588. DETONATING TOY. WILLIAM P. WOERNER, Lancaster, Pa. Filed Nov. 20, 1920. Serial No. 425,440. 2 Claims. (Cl. 46—46.)



1. A detonating toy comprising a substantially cylindrical member split longitudinally to provide separate sections, said sections being hollow to provide a central bore when the sections are assembled, a firing chamber located intermediate the ends of the bore, an anvil located at one end of the firing chamber, said anvil forming a part of one section and extending into the other section and aiding to hold the sections assembled, means extending transversely through the sections for holding them together, a headed firing pin opening within the firing chamber and extending through one end of the bore and a rod secured within the opposite end of the bore.

1,382,589. FLOOD-GATE. JOHN ZIEGLER, Perryville, Mo. Filed May 13, 1920. Serial No. 381,226. 1 Claim. (Cl. 39—4.)

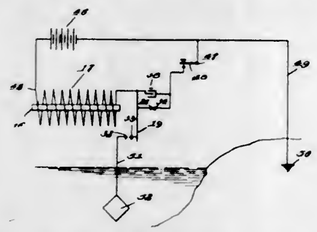


The combination with a pair of spaced supporting posts, of a flood gate embodying side bars, a transverse bar spanning the posts adjacent their upper extremities and having pivotal connection with the side bars of the gate, counterbalancing arms disposed on the down stream side of the gate, notched catches disposed on the posts, a transverse apron, arms pivotally mounted on the side bars and supporting the apron, and a latch rod extending through the arms and engageable with the notched catches in the manner and for the purpose specified.

1,382,590. SUBMARINE WIRELESS SYSTEM. WILLIAM G. ZEIGLER, Chicago, Ill. Filed Jan. 3, 1920. Serial No. 349,166. 5 Claims. (Cl. 250—5.)

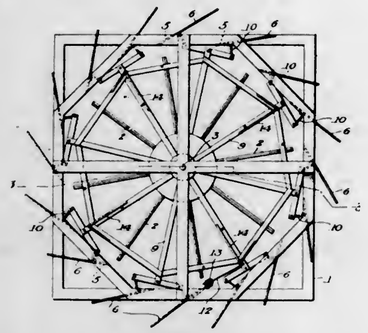
1. In a wireless apparatus for the transmission of messages, a source of current, an electro-magnet connected therewith and having a vibratory armature, a circuit closing device connected with said source and with said electro-magnet and further connected with the ground, a sec-

ondary vibrator association with said vibratory armature and operated thereby for making and breaking the flow of current caused by self-induction at the make and break



of the circuit through the electro-magnet, and a metallic plate connected with said secondary vibratory and submerged within a body of water.

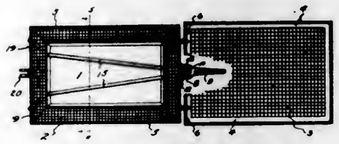
1,382,591. MOTOR. WILLIAM F. D. ACKERMANN, Kaylor, S. D. Filed Sept. 22, 1919. Serial No. 325,319. 1 Claim. (Cl. 170—17.)



A wind motor comprising a stationary supporting frame, a rotor mounted within the frame, a plurality of vertically extending stationary plates carried by the frame and constituting stationary deflectors for leading wind onto the rotor, a plurality of deflecting plates hinged upon the edges of said stationary plates and movable whereby to partially or entirely inclose the rotor, a relatively movable frame capable of having arcuate movement within the frame irrespective of the movement of the rotor, said movable frame including radial arms terminating in cross bars, links pivotally connected with the ends of each cross bar and with the adjacent hinged deflecting plate, a cable connected with one of said arms, trained over a guide and carrying a weight normally holding said movable frame in such position that the hinged plates will be in open position, and vanes mounted upon the top of said movable frame and impinged against by the wind for counterbalancing the weight and effecting movement of the movable frame to swing the hinged plates to closed position when the wind becomes excessive.

1,382,592. CORN-POPPER. GEORGE P. AMES, Derry, N. H. Filed May 8, 1920. Serial No. 379,838. 1 Claim. (Cl. 53—4.)

A corn popper comprising a reticulated body, a metallic frame for the outer edge thereof, a screw for supporting a handle, said screw being connected to one end of the frame and having its said connecting end provided with spaced arms and a lug connecting the arms, a flanged pan providing a bottom for the body, and a wire member for securing the pan to the body, said wire being centrally bent upon itself to provide contacting portions which are received between the arms and over the lug of the screw, the strands of wire from the said contacting portions being arranged against one of the ends of the body and being gradually spaced away from each other and further bent at a substantially right angle to the last mentioned portion and extended through the end of the body, the end of the pan and over the top of the pan, said last



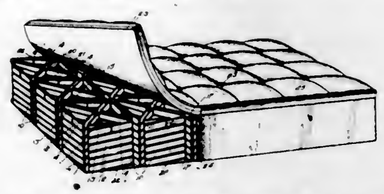
mentioned strands being also gradually spaced away from each other whereby the outer ends thereof pass through the other end of the pan adjacent to the corners thereof, the stranda being bent upwardly over the other end of the body and having their ends passed through the other end of the frame and from thence bent inwardly and downwardly against the inner face of the said end of the frame and the inner face of the other end of the body.

1,382,593. CUSHIONED BEDPAN. BERTHA A. ARATA and THEODORA L. MATTIE, Los Angeles, Calif. Filed Sept. 14, 1920. Serial No. 410,091. 1 Claim. (Cl. 4—19.)



A bed pan comprising a bottom wall generally tapered toward its forward end, a U-shaped cushion superimposed upon the rear portion and side portions of the bottom wall and having its arms tapered forwardly, an arched wall interposed between the forward end portions of the cushion and joined to the bottom wall, and a front wall joined to the bottom wall and said arched wall and having a discharge aperture; the said arched wall and front wall serving in conjunction with the bottom wall to form a receptacle in communication with said aperture and the rear end of the said receptacle being entirely open to the inclosure within the cushion.

1,382,594. SPRING-CUSHION CONSTRUCTION. WALTER BABENDERERDE, Chicago, Ill., assignor, by mesne assignments, to Harmony Spring Cushion Co., a Corporation of Illinois. Filed July 29, 1918. Serial No. 247,316. 8 Claims. (Cl. 5—13.)



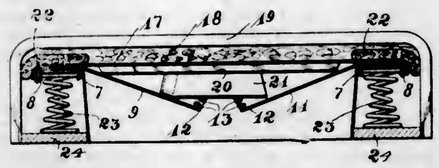
1. A spring unit for cushions, comprising a plurality of prism shaped helixes grouped together to form in end contour a regular polygon.

1,382,595. SHEET-FLOORING AND METHOD OF PRODUCING SAME. ALBERT C. BIERNATZKI, Aurora, Ill. Filed Jan. 17, 1920. Serial No. 352,053. 11 Claims. (Cl. 154—49.)



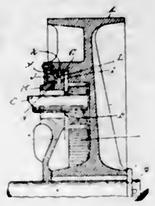
1. As a new article of manufacture, sheet flooring comprising a fibrous base having a wearing body or tread surface of material thickness formed of mineral mastic as described imposed upon the base.

1,382,596. AUTOMOBILE-SEAT CUSHION. LOUIS DOLL, Los Angeles, Calif. Filed Jan. 24, 1921. Serial No. 439,573. 3 Claims. (Cl. 155—179.)



1. In a seat, a frame, flaps extending from the frame centrally having means along the innermost edges for interconnecting the several flaps adjustably, a cover over the top of the frame and over the flaps, and air containers between the cover and the flaps for maintaining a desired top by supporting the air containers by the flaps.

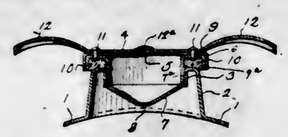
1,382,597. TRACTOR-WHEEL. ERNEST GOLDBERGER, Detroit, Mich. Filed Jan. 30, 1920. Serial No. 355,205. 3 Claims. (Cl. 286—7.)



1. The combination with housing members revoluble in relation to each other, of a packing between said members comprising a split resilient ring, and a non-metallic ring having a wedging engagement with each other, and means for maintaining said resilient ring under tension, whereby said non-metallic ring will be maintained in contact with the relatively revoluble part.

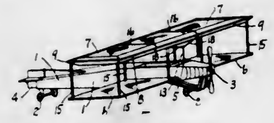
1,382,598. CAP FOR TANK FILLER-OPENINGS. OLIVER S. KELLY, New York, N. Y., assignor to The National Gauge and Equipment Company, La Crosse, Wis., a Corporation of Wisconsin. Filed Feb. 19, 1918. Serial No. 218,062. 5 Claims. (Cl. 220—39.)

1. A cap comprising a cap member having an annular right angle flange, and a baffle member having an outturned flange fitting within the flange of the cap member and secured thereto in nested relation therewith, said baffle member having a configuration to form a chamber,



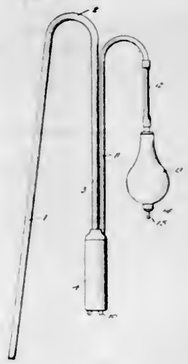
and being exteriorly screwthreaded, said baffle member having a dish-like configuration below the threaded portion.

1,382,599. SAFETY ATTACHMENT FOR FLYING-MACHINES. GEORGE H. RICKE, Cincinnati, Ohio, assignor to Aaron McNeill, Norwood, Ohio. Filed Aug. 18, 1919. Serial No. 318,299. 1 Claim. (Cl. 244—21.)



An attachment for flying machines of the class described, comprising a buoyancy chamber, said buoyancy chamber rigidly attached to the flying machine and being a component part thereof, and formed of spaced walls, terminating in pointed edges and means for strengthening the same, an auxiliary gas bag on the inside of the buoyancy chamber hugging the edge thereof, and a door in said chamber, and means for opening and closing said door.

1,382,600. SIPHON. ARTHUR W. SCHREINER, Brooklyn, N. Y., assignor to Standard Scientific Company, New York, N. Y. Filed June 21, 1919. Serial No. 305,903. 2 Claims. (Cl. 137—20.)



1. In a siphoning device, a siphon tube having a flared intake end, a starting chamber, housing and adapted to be immersed with the said intake end; an inwardly projecting nozzle mounted in the said starting chamber and having its innermost end formed to coact with the flared end of the intake tube, to form an injecting port adapted to receive liquid from the said chamber, and means to force the liquid against the baffling walls of the said injecting port, substantially as described.

1,382,601. CONFECTION. JOHN A. CRESSEY, Dallas, Tex. Filed July 28, 1919. Serial No. 313,920. 3 Claims. (Cl. 99—16.)

1. As a new article of manufacture, an edible spherically shaped casing formed in a plurality of sections secured

together, said casing comprising baked dough, said casing having markings upon its outer surface to simulate stitching, the entire casing simulating an ordinary base-ball, and an edible filling for the casing.

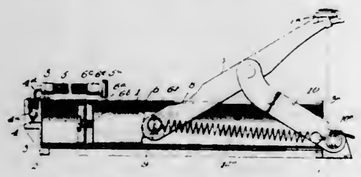


1,382,602. MULTIPLE SUCKER-ROD SOCKET. ALBERT H. NEILSON, Tulsa, Okla. Filed June 29, 1920. Serial No. 392,701. 8 Claims. (Cl. 294—102.)



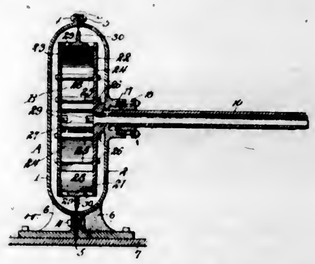
1. The combination in a socket, of a barrel with a downwardly tapering bore, slips in said bore, and means loosely holding said slips together enabling a greater separation thereof at the top than elsewhere, when moved upwardly in said bore.

1,382,603. FOOT-PUMP. LEON H. WHEELER, Ellensburg, Wash.; C. E. Wheeler, administrator of said Leon H. Wheeler, deceased, assignor, by direct and mesne assignments, of one-third to Ray McCoy, New York, N. Y., and one-third to Joseph F. O'Brien, West New York, N. J. Filed July 30, 1917. Serial No. 183,414. 6 Claims. (Cl. 230—27.)



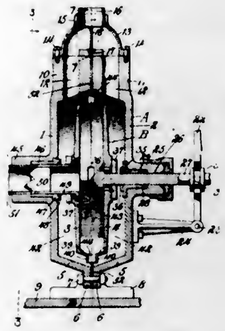
1. A foot pump embodying in combination a pump-barrel having air-egress means; means for supporting said barrel in a horizontal position; a piston reciprocable within said barrel; toggle-lever mechanism adapted to extend within the barrel for moving the piston in one direction, said pump being provided with means for permitting the said toggle joint to be moved to a position below the top of the barrel whereby additional effective movement of said levers will be provided and spring means for moving the piston in the opposite direction.

1,382,604. CENTRIFUGAL PUMP. ROBERT HUGH CARSON, Danville, Ill., assignor to Glen W. Reed, Danville, Ill. Filed Aug. 19, 1919. Serial No. 318,502. 6 Claims. (Cl. 253—200.)



1. A centrifugal pump comprising a stator and a rotor within the latter, the rotor being of substantially cylindrical form and inclosed in the stator and providing a cylindrical annular water course between them, the rotor having an exterior smooth peripheral radial rib intermediate of its width and traveling in the annular water course to serve as a guide or rudder, and said rotor having an axial inlet port and constricted outlet ports through the rotor periphery on opposite sides of the rib, and also having its interior segmentally divided between the inlet and outlet ports.

1,382,605. CENTRIFUGAL PUMP. ROBERT HUGH CARSON, Danville, Ill., assignor, by direct and mesne assignments, of one-sixth to Glen W. Reed, one-sixth to Melvin L. Coutant, one-sixth to Thomas J. Hawkins, one-sixth to Harvey C. Adams, and one-sixth to George G. Carsol, Danville, Ill. Filed June 30, 1920. Serial No. 393,089. 11 Claims. (Cl. 253—200.)

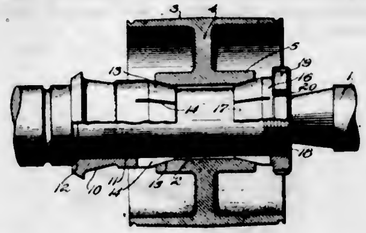


1. A centrifugal pump comprising a stator and a rotor inclosed thereby, the pump having an annular fluid course between the stator and rotor and the rotor being provided with an axial inlet, a peripheral series of outlet ports and a single interior abutment vane or blade reaching from the axis of the rotor to the periphery thereof.

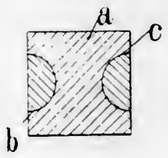
1,382,606. MOUNTING FOR GRINDING-MACHINE SPINDLES. CHARLES H. NORTON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 3, 1919. Serial No. 301,548. 3 Claims. (Cl. 287—52.)

1. In combination, a grinding machine spindle, a pulley having a hole mounted on and spaced from the spindle, a wedge shaped part projecting between one end of the hole and the spindle, a collar adjustably mounted on the spindle and provided with inwardly projecting, separated, wedge

shaped fingers adapted to extend between the spindle and the opposite end of the hole and means for moving the adjustable collar to force said fingers between the pulley and the spindle whereby the pulley may be fixedly mounted and centered on the spindle for a driving connection.



1,382,607. MANUFACTURE OF MODELS. RICHARD LLEWELYN BENSON RATHBONE, London, and CAVENDISH MORTON, Thornton Heath, England. Filed Oct. 8, 1920. Serial No. 415,565. 4 Claims. (Cl. 113—110.)



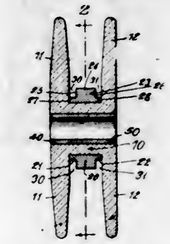
1. An article of manufacture comprising a flexible rod having at least one recess containing solder integral with the rod.

1,382,608. MACHINERY FOR ROLLING GLASS. ARNO SHUMAN, Philadelphia, Pa., assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 18, 1920. Serial No. 359,721. 2 Claims. (Cl. 49—34.)



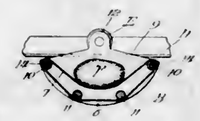
1. A table for rolling glass provided through its body with water channels circular in cross-section and having inlet and outlet water connections, and rods of less circular cross-section than the channels arranged for rolling therein, to provide crescent shaped water spaces near the top surface of the table whichever of its working surfaces is uppermost.

1,382,609. INSULATING COLLECTOR-SPOOL. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Mar. 6, 1920. Serial No. 363,692. 4 Claims. (Cl. 171—322.)



1. A spool insulator provided with circumferential radially extending insulating flanges, and a metal ring secured to the central portion of the spool and extending along thereof between the flanges, said ring provided with a centrally arranged raised portion forming grooves with metallic bottom surfaces between the central metallic raised portion and insulating flanges.

1,382,610. BUCKET FOR PROOFING APPARATUS. FRANK STREICH, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a Corporation of Illinois. Filed Dec. 13, 1919. Serial No. 344,594. 10 Claims. (Cl. 193—28.)



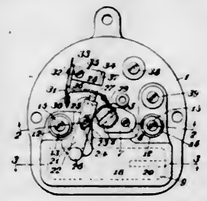
2. A dough carrying bucket for proofing apparatus, comprising sides, transversely extending connecting members therebetween and a flexible bottom extending over said transverse members and loosely supported thereby.

REISSUES.

15,127. COMPOUNDS OF CINCHONA ALKALOIDS AND 2-PHENYL-QUINOLIN-4-CARBOXYLIC ACID. ALEX B. DAVIS, Cincinnati, Ohio, assignor to The Eli Lilly and Company, Indianapolis, Ind., a Corporation of Indiana. Filed May 5, 1921. Serial No. 468,142. Original No. 1,213,464, dated Jan. 23, 1917, Serial No. 102,310, filed June 7, 1916. 2 Claims. (Cl. 23—24.)

1. A compound of a cinchona alkaloid and 2-phenyl-quinolin-4-carboxylic acid.

15,128. CONTACT DEVICE. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Mar. 30, 1920. Serial No. 370,017. Original No. 1,289,036, dated Dec. 24, 1918, Serial No. 121,807, filed Sept. 23, 1916. 33 Claims. (Cl. 200—30.)

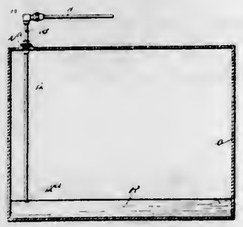


1. In a closed circuit contact device the combination of a movable contact point, a relatively stationary contact point, means to yieldingly hold said contact points normally in engagement with each other to close a circuit, and means to slightly transversely slide said movable contact point on said stationary contact point and to then separate said movable contact point from said stationary contact point, said yielding means being operative to move said movable contact point into engagement with said stationary contact point the instant they are separated.

15,129. RESERVE-PROVIDER FOR FUEL-TANKS. JOHN J. RICHARDS, Brookline, Mass. Filed Feb. 12, 1921. Serial No. 444,569. Original No. 1,323,649, dated Dec. 2, 1919, Serial No. 303,361, filed June 11, 1919. 6 Claims. (Cl. 158—46.5.)

6. The combination with a vertical tank of a delivery conduit leading therefrom comprising a pipe extending

from the top of the tank downward with an inlet end near the bottom thereof, the top portion of said pipe having a slidable fitting in the tank top and equipped with spaced apart grooves, said tank top having means



for yieldably engaging said grooves to hold the pipe with its lower end a predetermined distance above the bottom of the tank permitting manual sliding adjustment of said pipe so that said inlet will be located approximately at the bottom of the tank at will.

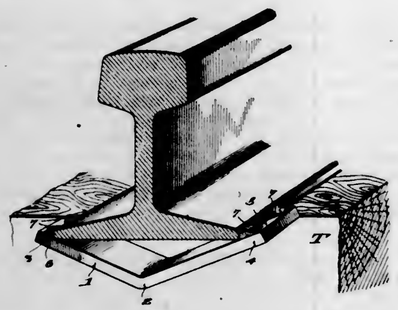
15,130. POISONOUS COMPOUND FOR RATS, &c. HERMAN SCHROEDER, Quincy, Ill. Filed Apr. 30, 1921. Serial No. 465,828. Original No. 1,372,092, dated Mar. 22, 1921, Serial No. 342,980, filed Dec. 6, 1919. 3 Claims. (Cl. 167—6.)

1. A poisonous food for vermin consisting of grain soaked in a solution formed by combining arsenic trioxid, strychnin alkaloid, glacial acetic acid, fluid extract gelsemium, and fluid extract digitalis.

2. An animal poison, consisting of grain soaked in a solution formed by first dissolving strychnin alkaloid in a requisite amount of hot water together with acetic acid and fluid extract gelsemium including hot water and a solution formed by combining arsenic trioxid, fluid extract digitalis in hot water, in the proportions as specified.

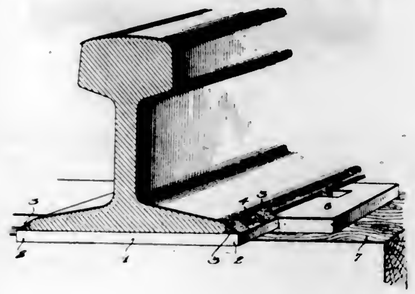
3. An animal poison, consisting of a solution of strychnin alkaloid, a requisite amount of hot water together with acetic acid, a fluid extract of gelsemium including hot water, a solution comprising arsenic trioxid, fluid extract digitalis and hot water, and grain soaked in the combined solutions.

15,131. WELDED RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed May 3, 1921. Serial No. 466,595. Original No. 1,359,854, dated Nov. 23, 1920, Serial No. 404,427, filed Aug. 18, 1920. 13 Claims. (Cl. 238—321.)



10. A rail anchor consisting of a body part extending across the rail base and welded to both flanges.

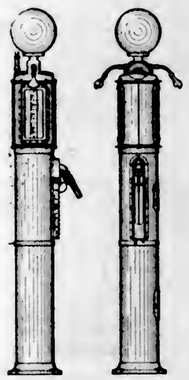
15,132. WELDED RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed May 3, 1921. Serial No. 466,596. Original No. 1,369,208, dated Feb. 22, 1921, Serial No. 430,821, filed Dec. 15, 1920. 14 Claims. (Cl. 238—321.)



1. A rail anchor consisting of a bent bar extending across the rail base and welded to the edges of the rail flanges.

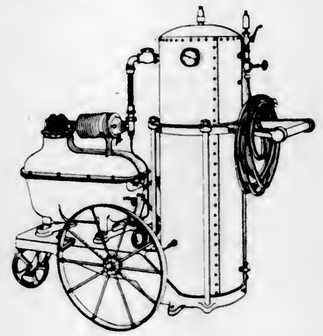
DESIGNS.

58,176. LIQUID-DISPENSING APPARATUS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Oct. 27, 1919. Serial No. 333,851. Term of patent 14 years.



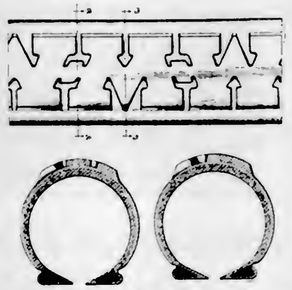
The ornamental design for a liquid dispensing apparatus as shown.

58,177. COMBINATION MOTOR AND AIR-PUMP CASING. SAMUEL DUNCAN BLACK and ALONZO G. DECKER, Towson, Md., assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Filed June 14, 1920. Serial No. 389,028. Term of patent 14 years.



The ornamental design for a combination motor and air pump casing, substantially as shown and described.

58,178. VEHICLE TIRE OR CASING. EDWARD L. CAMPBELL, Winona, Minn., assignor to The J. R. Watkins Company, Winona, Minn., a Corporation of Minnesota. Filed Nov. 9, 1920. Serial No. 422,964. Term of patent 14 years.



The ornamental design for a vehicle tire or casing, substantially as shown.

58,179. [WITHDRAWN.]

58,180. PNEUMATIC TIRE. WILLIAM FRANKLIN COLLINS, Centerville, Iowa, assignor of one-half to John J. Schweinefuss, Centerville, Iowa. Filed May 14, 1920. Serial No. 381,476. Term of patent 14 years.



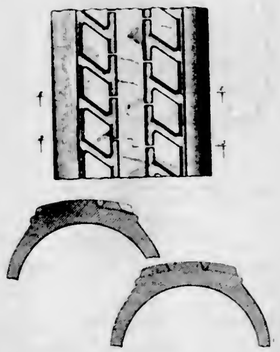
The ornamental design for a pneumatic tire, as shown.

58,181. TIRE-CASING. FREDRICK S. DICKINSON, New York, N. Y., assignor to Perfection Tire & Rubber Company, a Corporation of Delaware. Filed Dec. 30, 1919. Serial No. 348,482. Term of patent 14 years.



The ornamental design for a tire casing, substantially as shown and described.

58,182. TIRE-CASING. FREDRICK S. DICKINSON, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,578. Term of patent 14 years.



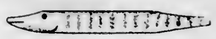
The ornamental design for a tire casing, substantially as shown.

58,183. FISH-BAIT. HENRY S. DILLS, Garrett, Ind. Filed Apr. 14, 1920. Serial No. 373,975. Term of patent 14 years.



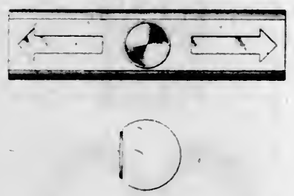
The ornamental design for a fish-bait, as shown.

58,184. FISH-BAIT. HENRY S. DILLS, Garrett, Ind. Filed Dec. 11, 1920. Serial No. 430,064. Term of patent 14 years.



The ornamental design for a fish-bait as shown.

58,185. AUTOMOBILE SIGNAL-LAMP. EUGENE M. DOWNEY and CHARLES P. HEPP, Waukesha, Wis., assignors of one-third to Leslie F. Cole, Waukesha, Wis. Filed Dec. 21, 1920. Serial No. 432,366. Term of patent 14 years.



The ornamental design for an automobile signal lamp, as shown.

58,186. TRAY OR SIMILAR ARTICLE. HUGO A. HEIZMANN, Boston, Mass. Filed Nov. 22, 1920. Serial No. 425,924. Term of patent 3½ years.



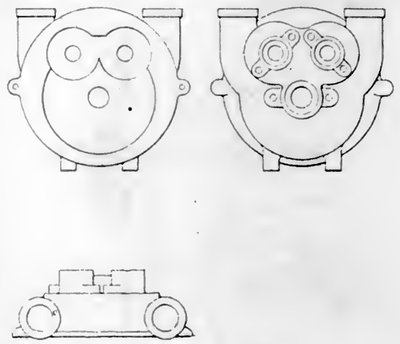
The ornamental design for a tray or similar article, substantially as shown.

58,187. TIRE. IRA V. HUMPHREY, Highland Park, Pa. Filed May 31, 1919. Serial No. 301,088. Term of patent 14 years.



The ornamental design for a tire, substantially as shown.

58,188. ROTARY-PUMP CASING. JULIAN B. JENSEN, Alameda, Calif. Filed Feb. 24, 1920. Serial No. 361,000. Term of patent 7 years.

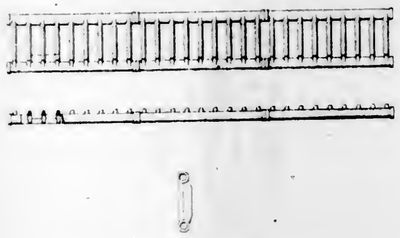


The ornamental design for a rotary pump casing, substantially as shown.

58,189. RADIATOR. AUGUST KEHM, Chicago, Ill. Filed Mar. 12, 1917. Serial No. 154,413. Term of patent 3½ years.

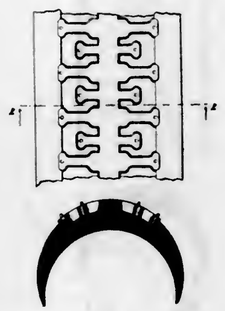
The ornamental design for a radiator as shown.

58,190. REFRIGERATING-RADIATOR. AUGUST KEHM, Chicago, Ill. Filed Jan. 25, 1919. Serial No. 273,161. Term of Patent 3½ years.



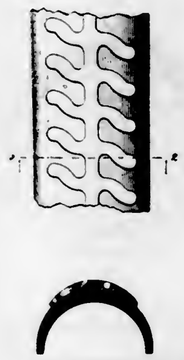
The ornamental design for a refrigerating radiator, as shown.

58,191. NON-SKID TREAD FOR TIRES. CLARENCE B. KLOPFENSTINE, Des Moines, Iowa, assignor to Iowa Cord Tire Company, Des Moines, Iowa, a Corporation of Iowa. Filed Oct. 30, 1920. Serial No. 420,824. Term of patent 14 years.



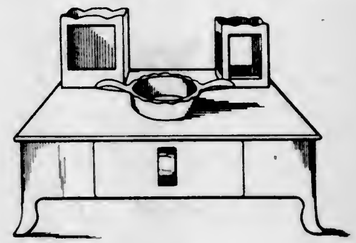
The ornamental design for a non-skid tread for tires, as shown.

58,192. NON-SKID TREAD FOR TIRES. CLARENCE B. KLOPFENSTINE, Des Moines, Iowa, assignor to Iowa Cord Tire Company, Des Moines, Iowa, a Corporation of Iowa. Filed Oct. 30, 1920. Serial No. 420,825. Term of patent 14 years.



The ornamental design for a non-skid tread for tires, as shown.

58,193. SMOKING SET. STANISLAUS LESMIESKI, Rochester, N. Y. Filed Sept. 11, 1920. Serial No. 409,709. Term of patent 3½ years.



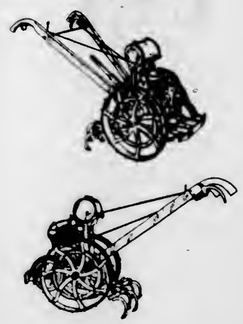
The ornamental design for a smoking set as shown.

58,194. SOLE-TRIMMING MACHINE. PAUL LEVASSEUR and ALFRED P. DUMAS, Fall River, Mass. Filed Nov. 15, 1919. Serial No. 338,382. Term of patent 7 years.



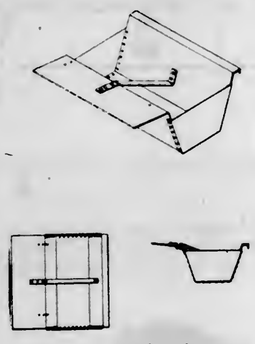
The ornamental design for a sole trimming machine, as shown.

58,195. CULTIVATOR. CHARLES S. MCCARTHY, Jr., Sandusky, Ohio. Filed Jan. 28, 1920. Serial No. 354,740. Term of patent 14 years.



The ornamental design for a cultivator as shown.

58,196. DRINKING-PAN FOR STOCK-FOUNTAINS. WILLIAM A. MCCOLLOUGH, Webster City, Iowa, assignor to W. A. McCollough & Sons, Inc., Webster City, Iowa, a Corporation of Iowa. Filed Sept. 23, 1920. Serial No. 412,400. Term of patent 3½ years.



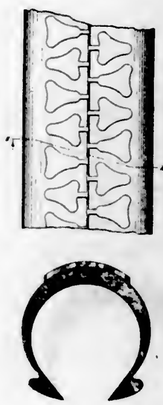
The ornamental design for a drinking pan for stock fountains, as shown.

58,197. GOBLET OR SIMILAR ARTICLE. STEFAN MUNICH, Flushing, N. Y. Filed Aug. 13, 1920. Serial No. 403,405. Term of patent 3½ years.



The ornamental design for a goblet or similar article, as shown and described.

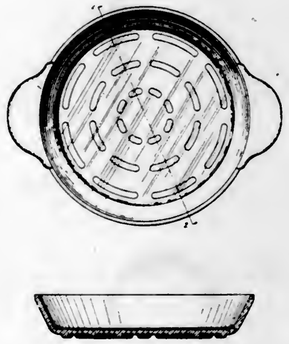
58,198. TIRE. HARRY RAFLOVICH, Buffalo, N. Y. Filed Dec. 18, 1920. Serial No. 431,779. Term of patent 7 years.



The ornamental design for a tire, as shown.

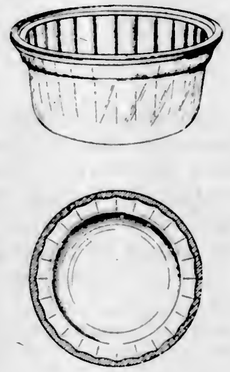
58,199. [WITHDRAWN.]

58,200. TRANSPARENT GLASS DISH. GEORGE D. SAILER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1920. Serial No. 422,741. Term of patent 14 years.



The ornamental design for a transparent glass-dish as shown.

58,201. TRANSPARENT GLASS DISH. GEORGE D. SAILER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Nov. 8, 1920. Serial No. 422,742. Term of patent 14 years.



The ornamental design for a transparent glass dish as shown.

58,202. ASH-TRAY STAND. LEO VALENZIA, Baltimore, Md., assignor to The Maryland Toy Manufacturing Company, Incorporated. Filed Oct. 13, 1920. Serial No. 416,766. Term of patent 3½ years.



The ornamental design for an ash tray stand, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 21, 1921.

[PUBLISHED JULY 1, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 108,426. (CLASS 2. RECEPTACLES.) DURO PAPER PRODUCTS CO., Chicago, Ill. Filed Jan. 12, 1918.

DURO

Particular description of goods.—Boxes and Cartons Made Wholly or in Part of Paper.
Claims use since Nov. 7, 1916.

Ser. No. 110,865. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARSHALL-WELLS COMPANY, Jersey City, N. J., and Duluth, Minn. Filed May 13, 1918.

BLUE STREAK

Particular description of goods.—Coasting-Sleds and Coasting-Wagons.
Claims use since on or about Mar. 1, 1918.

Ser. No. 112,502. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NATIONAL CLOAK & SUIT CO., New York, N. Y. Filed Aug. 3, 1918. Under ten-year proviso.

National

Particular description of goods.—Plumes, Ostrich-Plumes and Willow Ostrich-Wreath for Trimming; Switches, Human Hair Made Up for Wear; Corset-Steels, Woven-Wire Boning for Corsets; Safety-Pins, Assorted Sizes; Combs other Than Precious Metal, and Pugree Ostrich-Bands for Ladies' Hat-Trimmings.
Claims use since 1888.

Ser. No. 118,308. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE GRATON & KNIGHT MANUFACTURING COMPANY, Worcester, Mass. Filed May 9, 1919.

ROYAL WORCESTER 1851 G&K

Particular description of goods.—Lace-Leather and Cut Laces of Leather.
Claims use since 1900.

Ser. No. 120,908. (CLASS 2. RECEPTACLES.) BARBEE WIRE & IRON WORKS, La Fayette, Ind., and Chicago, Ill. Filed July 25, 1919.

BAR BEE

Particular description of goods.—Wire Baskets.
Claims use since Jan. 2, 1918.

Ser. No. 122,080½. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOLLING LYNN ROBERTSON, Manassas, Va. Filed Aug. 28, 1919.

C. O. B.

Particular description of goods.—Stock Feeds.
Claims use since Jan. 1, 1917.

Ser. No. 122,602. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JACK MAGENHEIM, Binghamton, N. Y. Filed Sept. 12, 1919.

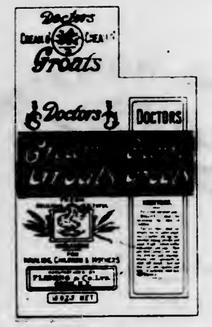


No claim is made to the word "Evershine" apart from the other features of the mark as shown on the drawing.

Particular description of goods.—Polishes and Dressings for Leather Boots and Shoes.

Claims use since May 1, 1919.

Ser. No. 124,262. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLEMING & COMPANY LTD., Gore, Southland, New Zealand. Filed Oct. 28, 1919.



No claim is made to the following words, which appear upon the drawing, apart from the mark shown in the drawing: "Doctors," "Cream o'," "Registered Trade-Mark," "Cream o'," "Groats." "Fresh, Delicious, Healthful, Wholesome, for Invalids, Children & Mothers," "Manufactured by Fleming & Co. Ltd., Gore, N. Z.," "15 ozs. net," "Directions," "For gruel see other side," "Biscuits, Ideal for developing the teeth of children," "Two oz. flour, three oz. groats, two oz. castor sugar, two oz. butter, one egg, teaspoonful baking powder and pinch of salt. Cream butter and sugar, add egg. Then mix flour, groats, salt, baking powder well together, adding other ingredients to make soft dough. Roll out thin, cut into squares, and bake in moderate oven to a light brown."

Particular description of goods.—Prepared Oat-Flour or Prepared Oatmeal with and without the Addition of other Food Substances, Such as Sugar of Milk or Dried Milk.

Claims use since Nov. 1, 1917.

Ser. No. 125,308. (CLASS 2. RECEPTACLES.) NATHAN SCHOENFELD, New York, N. Y. Filed Nov. 25, 1919.

ESTRELLA

Consists of the word "Estrella."

Particular description of goods.—Combined Packing and Display Receptacles for Neckties.

Claims use since Aug. 1, 1898.

Ser. No. 125,600. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Dec. 5, 1919.

Curtiss

Particular description of goods.—Candy.

Claims use since Oct. 26, 1919.

Ser. No. 125,759. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE PICHEL COMPANY, New York, N. Y. Filed Dec. 9, 1919.

TRINITY

Particular description of goods.—Frames for Ladies' Handbags.

Claims use since Oct. 1, 1919.

Ser. No. 126,359. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOMER W. FAULKNER, Mount Vernon, Ill. Filed Dec. 23, 1919.



The picture being fanciful and no claim being made to the exclusive use of the words "Suckers, Assorted Flavors" apart from the mark as shown.

Particular description of goods. — Candy — Namely, Candy Suckers.

Claims use since Nov. 1, 1918.

Ser. No. 127,078. (CLASS 39. CLOTHING.) BRUMMEL & MENDELSOHN, New York, N. Y. Filed Jan. 13, 1920.



In the drawing the elliptical border and the circular border merging therewith, the disclosed rear surface of the scroll below the circular border, and the four substantially triangular areas within the circular border are lined for gold, indicating a gold coloration, while the background within the circular border is lined for red, indicating a red coloration. No claim is made to the word "Hose" aside from the mark as shown by the drawing.

Particular description of goods.—Ladies', Men's, and Children's Hose; Ladies' and Children's Vests; Ladies' Pants; Ladies', Men's, and Boys' Knitted Union-Suits; Men's and Boys' Knitted Shirts, Men's and Boys' Knitted Drawers, and Bathing-Suits.

Claims use since January, 1895.

Ser. No. 127,079. (CLASS 39. CLOTHING.) BRUMMEL & MENDELSOHN, New York, N. Y. Filed Jan. 13, 1920.



In the drawing the square border, the circular border therein, the four substantially triangular areas within the circular border, and the letters of the word "Hose" are lined for gold, indicating a gold coloration, while the background within the circular border is lined for red, indicating a red coloration. No claim is made to the word "Hose" apart from the mark as shown by the drawing.

Particular description of goods.—Ladies', Men's, and Children's Hose; Ladies' and Children's Vests; Ladies,' Men's, and Boys' Knitted Union-Suits; Men's and Boys' Knitted Shirts, Men's and Boys' Knitted Drawers, and Bathing-Suits.

Claims use since January, 1895.

Ser. No. 127,109. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID BERG & Co., Chicago, Ill. Filed Jan. 14, 1920.

Lakeside

Particular description of goods.—Sausages and other Meat Products, Which are Meat-Loaf, Veal-Loaf, Peppered Beef, Pickled Beef-Briskets, Cooked Corned Beef, Pickled Tongues, Smoked Tongues, Cooked Pickled Tongues, and Cooked Smoked Tongues.

Claims use since Mar. 15, 1919.

Ser. No. 128,500. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

WHITE KING -

Particular description of goods.—Hose Made of Rubber Reinforced with Fabric.

Claims use since about Feb. 1, 1913.

Ser. No. 128,933. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES EMILE PFEIFFER, Paris, France. Filed Feb. 26, 1920.

XL

Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.

Claims use since Oct. 31, 1919.

Ser. No. 128,934. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

PEP PAPER

No claim is made to the word "Paper" apart from the mark as shown in the drawing.

Particular description of goods.—Ready-Cut Cigarette-Papers and Tubes for Cigarettes.

Claims use since Dec. 16, 1919.

Ser. No. 128,935. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

MARN PAPER

No claim is made to the word "Paper" apart from the mark as shown in the drawing.

Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.

Claims use since Dec. 16, 1919.

Ser. No. 128,936. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

LE 75

Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.

Claims use since Dec. 16, 1919.

Ser. No. 129,875. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CRESCENT BOTTLING CO., INC., Newark, N. J. Filed Mar. 18, 1920.



Particular description of goods.—Soft Drinks Drawn from the Fountain or Sealed in Bottles.

Claims use since Mar. 8, 1920.

Ser. No. 129,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL DRUG STORES CORPORATION, New York, N. Y. Filed Mar. 19, 1920.

NATIONAL

Particular description of goods.—Aromatic Castor-Oil; Laxative Tablets, (Little Liver-Tablets;) Nux and Iron Peptone Tablets, Cascara Sagrada Tablets, Aspirin Tablets, Seller's Tablets, Rhubarb and Soda Compound, Cough Mixture, Blaud's Tablets; Liniments for the Relief of Sprains, Bruises, Scalds, and Inflammation; Quinin Tablets, Carbolated Witch-Hazel and Arnica Ointment, Children's Cough-Syrup; Compound Syrup Hypophos, Cloudy; Brown-Mixture Tablets, White-Pine Compound Syrup, Catarrh-Jelly Tubes, Dr. Henkle Tablets, Lady Webster Dinner-Tablets, Rhubarb Compound Tablets, Compound Cathartic Tablets, Peptonized Iron and Manganese, Antiseptone, Bronchial Lozenges, Syrup of Fig and Senna, Rhinitis Tablets, Digestive Tablets, Gargle for Use as a Remedy for Tonsillitis and Inflammatory Conditions, Milk of Magnesia; Elixir Iron, Quinin, and Strychnin; Emulsion Cod-Liver Oil, Eye-Wash, Larkspur Lotion, Headache-Powder, Toothache Remedy; Salts, Effervescent Soda Phosphate; Salts, Magnesium Citrate; Salts, Kissingen; Salts, Vichy; Soda-Mint Tablets, Chlorid-of-Potash Tablets, Boric-Acid Powder, Drop-Chalk, Precipitated Chalk, Chalk and Orris, Cream of Tartar, Flaxseed, Senna-Leaves, Orris-Root Powder, Essence of Peppermint; Fluid Cascara, Aromatic; Fluid Extract Cascara, Formaldehyde, Glycerin, Glycerin and Rose-Water, Chloroform Liniment, Tincture Benzoin Compound, Tincture Green Soap, Tincture of Iodin, Tincture of Myrrh, Witch-Hazel, Preparation for the Extermination of Insects, Castor-Oil; Castor-Oil, Aromatic, Colored; Stearate of Sprinkler; Powder, Insect; Mustard; Naphthalene Balls, Moth; Naphthalene Flakes, Moth; Camomile-Flowers, Compound Larkspur Lotion; Oil of Almond, Sweet; Spirits Camphor, Spirits Niter, Stokes's Expectorant, Tincture Arnica, Tincture Benzoin, Blue-Ointment, Boric-Acid Ointment, Carbolic Salve, Sulphur Salve, Zinc Ointment, Paregoric, Sodium Silicate, Dobell's Solution; Salts, Rochelle; Sunflower-Seed, Plaster Mother; Licorice Powder, Compound; Talcum Powder, Epsom Salts, Seditz-Powder, Oxalic Acid, Camphorated Chalk, Antiseptic Powder; Powder, Chalk and Wintergreen; Powder, Rhubarb Compound; Carlsbad Artificial Salts, Alum Powder.

Claims use since Nov. 22, 1919.

Ser. No. 130,438. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

UNIVERSAL

Particular description of goods.—Candy.

Claims use since October, 1911.

Ser. No. 130,471. (CLASS 7. CORDAGE.) GRAIN GROWERS GRAIN COMPANY, Minneapolis, Minn. Filed Apr. 1, 1920.

BUG PROOFED BUG

No claim being made to the words "Bug Proofed" except in the distinctive form shown as associated with the other features of the mark.

Particular description of goods.—Binder-Twine.

Claims use since about Mar. 23, 1921.

Ser. No. 130,769. (CLASS 12. CONSTRUCTION MATERIALS.) THE NATIONAL PRESSED STEEL COMPANY, Massillon, Ohio. Filed Apr. 7, 1920.

NATIONAL STEEL LUMBER

No claim being made to the words "Steel Lumber" or the representation of the goods apart from the mark shown.

Particular description of goods.—Steel Lumber—viz., Rolled-Steel I-Joists, and Rolled-Steel Studs.

Claims use since about July 30, 1919.

Ser. No. 130,964. (CLASS 39. CLOTHING.) THE KROHN-FECHHEIMER CO., Cincinnati, Ohio. Filed Apr. 10, 1920.

TWINFIT

Particular description of goods.—Ladies' and Misses' Leather Shoes.

Claims use since Apr. 4, 1902.

Ser. No. 131,200. (CLASS 39. CLOTHING.) ARTCRAFT CLOTHES INC., Baltimore, Md. Filed Apr. 16, 1920.

Artcraft

Particular description of goods.—Coats, Pants, Vests, and Overcoats.

Claims use since Mar. 12, 1920.

Ser. No. 131,556. (CLASS 39. CLOTHING.) BOBE, INC., New York, N. Y. Filed Apr. 24, 1920.

Bobé

Particular description of goods.—Gowns, Ladies' Suits, Wraps, Blouses, Hats, Scarfs, Negligée, and Lingerie.

Claims use since Mar. 15, 1913.

Ser. No. 131,610. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y. Filed Apr. 24, 1920.



No claim being made to the exclusive use of the representation of the several flags apart from the mark as shown in the drawing.

Particular description of goods.—Beef Extracts, Wheat, Corn, and Cereals, Cheese, Chewing-Gum, Chocolate and Cocoa; Condensed, Malted, and Evaporated Milk; Crackers, Dried Fruits, Flavoring Extracts for Food Purposes; Fish, (Dry, Salted, and Canned;) Flour, Food Products, Fruits, Gelatins; Dry Groceries—viz., Coffees, Teas, and Chocolates; Macaroni, Olive-Oils; Edible Oils—viz., Cotton-Seed and Soy-Bean Oils; Sugar, and Rice.

Claims use since Jan. 16, 1920.

Ser. No. 131,770. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE B. F. K. MANUFACTURING COMPANY, Hartford, Conn. Filed Apr. 29, 1920.

DuBarry

Particular description of goods.—Hairpins.

Claims use since on or about Mar. 2, 1920.

Ser. No. 132,115. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROLAND L. SMITH, Belmont, Mass. Filed May 6, 1920.

DELSPAR

Particular description of goods.—Surfacing and Finishing Composition, Particularly for Surfacing or Refinishing Shoes, Hides, Leather Goods, Enameled Goods, and Patent-Leather.

Claims use since May, 1916.

Ser. No. 132,673. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE ZIPP MANUFACTURING COMPANY, Cleveland, Ohio. Filed May 19, 1920.

CHERRI-O

Particular description of goods.—A Non-Alcoholic, Malt-less Compound for Making Beverages to Be Sold as Soft Drinks and the Beverages Made Therefrom.

Claims use since May 16, 1910.

Ser. No. 132,769. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Filed May 22, 1920.

ARCO

Particular description of goods.—Gas-Valves for Boilers, Radiators, and Furnaces and Air-Valves for Radiators.

Claims use since Aug. 2, 1909, for air-valves and radiators and since Nov. 4, 1919, for gas-valves.

Ser. No. 132,895. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TAH CHANG SEN & CO., Shanghai, China. Filed May 24, 1920.



Consists of five colored circles, the five circles being arranged in an inward direction, as follows, black, white, blue, yellow, and red, respectively, and on the circles appear two crossed lines of Chinese characters, the same being translated in English "Tah Chang Sen & Co."

Particular description of goods.—Dyes.

Claims use since July 1, 1919.

Ser. No. 133,023. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) REISS-PREMIER PIPE COMPANY, Chicago, Ill. Filed May 27, 1920.

PREMIER

Particular description of goods.—Smoking-Pipes, Cigar-Holders, Cigarette-Holders, and Smokers' Articles—Namely, Cases for Said Pipes and Holders, Tobacco Boxes and Pouches, Cigar and Cigarette Cases, and Ash-Trays.

Claims use since Jan. 10, 1920.

Ser. No. 133,046. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CYCLEMOTOR CORPORATION, Rochester, N. Y. Filed May 28, 1920.



No claim is made to the exclusive use of the words "Power Cycle" apart from the mark as shown.

Particular description of goods.—Power-Driven Bicycles.

Claims use since Dec. 7, 1917.

Ser. No. 133,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARYAN TANSKI, Syracuse, N. Y. Filed June 19, 1920.



Comfort

Consists of a portrait of applicant. Applicant disclaims the word "Comfort."

Particular description of goods.—Foot-Powder.

Claims use since Apr. 15, 1920.

Ser. No. 134,143. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) REPUBLIC BELTING COMPANY, INC., Baltimore, Md. Filed June 24, 1920.

CLIMATE

Particular description of goods.—Fabric Belting.

Claims use since June 10, 1920.

Ser. No. 134,312. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOTTSCHALK STEINBERG & CO. INC., New York, N. Y. Filed June 28, 1920.



The trade-mark consists of the portrait of Florence Court, who has given consent to the use of her portrait.

Particular description of goods.—Veils, Veilings, and Nettings in the Piece.

Claims use since March, 1920.

Ser. No. 134,810. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE COLUMBIA RIBBON CO., Paterson, N. J. Filed July 12, 1920.

Columbia

Particular description of goods.—Hatbands, Skirt and Dress Beltings, Pump-Bows, Shoe-Laces, Braids Made of Silk and Cotton, and Garment-Bindings.

Claims use since March, 1918.

Ser. No. 134,888. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELPY SELFY, Dallas, Tex. Filed July 13, 1920.

HELPY-SELFY

Particular description of goods.—Fresh Meats—Namely, Cuts of Beef, Pork, Ham, Bacon; Canned Meats—Namely, Chipped Beef, Potted Ham, Corn-Beef, and Boneless Chicken; Fresh Vegetables—Namely, Tomatoes, Potatoes, Cabbage, Corn, Carrots, Green Peppers, Turnips, Parsnips, Lettuce; Canned Vegetables—Namely, Potatoes, Spinach, Tomatoes, Corn, Peas, Okra; Fresh Fruits—Namely, Grapes, Pears, Apples, Peaches, Oranges, Lemons, Cherries; Canned Fruits—Namely, Peaches, Pears, Cherries, Pineapples, Blackberries; Dried Fruits—Namely, Raisins, Prunes, Apples, Apricots; Fruit Preserves, Bread, Fish; Cereals—Namely, Ground Oats, Wheat, Rice, Barley, Wheat-Flour; Butter, Milk; Flavoring Extracts—Namely, Strawberry, Orange, Lemon, Vanilla, Almond; Lard, Salt and Pepper, Macaroni, Spaghetti, Eggs.

Claims use since May 21, 1920.

Ser. No. 135,046. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KWIX COMPANY, Boston, Mass. Filed July 16, 1920.

KWIX

Particular description of goods.—Soap and Preparation in the Nature of Soap.

Claims use since June 5, 1920.

Ser. No. 135,635. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLUMBIA DAIRY PRODUCTS COMPANY, INC., Vancouver, Wash. Filed July 31, 1920.

MAID O' WAUNA

Particular description of goods.—Ice-Cream and Butter.

Claims use since Dec. 15, 1919.

Ser. No. 136,410. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE GENERAL FIREPROOFING CO., Youngstown, Ohio. Filed Aug. 24, 1920.

Allsteel

No claim being made to the word "Allsteel" apart from the mark shown in the drawing.

Particular description of goods.—Filing and Storage Cabinets and Boxes, Drawers, Cases, Sections, Shelving, Counter-Height Units, Partitions for Filing-Containers, and Parts, Being Elements Used for Filing and Storage; Cash-Drawers, Vertical Unit Letter-Trays, Bond-Boxes, Note-Filing Cases, Bookcases, Desks, Office-Tables, Stands, Shelves, and Parts Thereof.

Claims use since July 21, 1920.

Ser. No. 136,574. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE TUR-BOY CO., St. Louis, Mo. Filed Aug. 27, 1920.

TUR-BOY

Particular description of goods.—Sand-Operated and Draft-Operated Toys.

Claims use since Apr. 17, 1917.

Ser. No. 136,847. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE NATIONAL DECORATIVE COMPANY, Camden, N. J. Filed Sept. 4, 1920.

Sadeco Maid

Particular description of goods.—Window Valances, Panels, and Drape-Shades Made Up of Cotton Goods.

Claims use since Feb. 1, 1920.

Ser. No. 137,355. (CLASS 39. CLOTHING.) THE BOYSHFORM BRASSIERE CO., New York, N. Y. Filed Sept. 20, 1920.



The representation of the female figure shown being fanciful.

Particular description of goods.—Brassières.

Claims use since Jan. 1, 1919.

Ser. No. 137,816. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed Oct. 1, 1920.



Particular description of goods.—Road-Wheels and Steering-Wheels and Parts Thereof.

Claims use since in or about 1901.

Ser. No. 137,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BECH VAN SICLEN & CO., INC., San Francisco, Calif. Filed Oct. 5, 1920.

BAKER'S BEST



Particular description of goods.—Wheat-Flour.

Claims use since May 15, 1920.

Ser. No. 137,956. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NORTH BILLERICA CO., North Billerica, Mass. Filed Oct. 5, 1920. Under ten-year proviso.

Faulkner

Particular description of goods.—Piece Goods Composed of Wool, Part Wool, Cotton, Part Cotton, the Hair of the Camel, Goat, and Alpaca, and Cotton and Wool and Part Cotton and Wool Blankets and Cotton and Wool and Part Cotton Blanket Piece Goods.

Claims use since 1811.

Ser. No. 138,062. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed Oct. 7, 1920.



Particular description of goods.—Frames for Automotive Vehicles and Parts Thereof.

Claims use since in or about 1901.

Ser. No. 138,129. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) H. C. S. MOTOR CAR COMPANY, Indianapolis, Ind. Filed Oct. 9, 1920.

H C S

Particular description of goods.—Automobiles.

Claims use since Nov. 15, 1919.

Ser. No. 138,173. (CLASS 12. CONSTRUCTION MATERIALS.) BASTIAN-MORLEY CO., La Porte, Ind. Filed Oct. 11, 1920.

THE ROYAL

Particular description of goods.—Thermos-Jackets, a Felt Cover for Water Heaters and Boilers to Conserve Heat.

Claims use since Sept. 20, 1920.

Ser. No. 138,339. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE I. E. PALMER CO., Middletown, Conn. Filed Oct. 15, 1920.

ARAWANA

The word "Arawana" combined with an Indian head.

Particular description of goods.—Hammocks.

Claims use since Jan. 1, 1897.

Ser. No. 138,495. (CLASS 10. FERTILIZERS.) IMP LABORATORY, San Francisco, Calif. Filed Oct. 19, 1920.

IMP

Particular description of goods.—Soil-Bacteria.
Claims use since Oct. 11, 1920.

Ser. No. 138,505. (CLASS 33. GLASSWARE.) LA SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS BERNARD, VERRERIE DE BAGNEAUX, Bagneaux-sur-Loing, France. Filed Oct. 19, 1920.

RADIAPHANE

Particular description of goods.—Raw Glass Used for Spectacles and Optical Instruments.
Claims use since Dec. 9, 1919.

Ser. No. 138,506. (CLASS 33. GLASSWARE.) LA SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS BERNARD, VERRERIE DE BAGNEAUX, Bagneaux-sur-Loing, France. Filed Oct. 19, 1920.

DICHROYAL

Particular description of goods.—Raw Glass Used for Spectacles and Optical Instruments.
Claims use since Dec. 9, 1919.

Ser. No. 138,525. (CLASS 25. LOCKS AND SAFES.) WALKER MOTOR CAR SPECIALTIES CO., Oakland, Calif. Filed Oct. 19, 1920.

LEADER

Particular description of goods.—Motor-Vehicle-Steering-Wheel Locks.
Claims use since June, 1920.

Ser. No. 138,526. (CLASS 25. LOCKS AND SAFES.) WALKER MOTOR CAR SPECIALTIES CO., Oakland, Calif. Filed Oct. 19, 1920.



Particular description of goods.—Motor-Vehicle-Steering-Wheel Locks.
Claims use since June, 1920.

Ser. No. 138,673. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS GRAIN CORPORATION, Buffalo, N. Y. Filed Oct. 22, 1920.



No claim being made to the word "Feeds."
Particular description of goods.—Manufactured Horse, Hog, Dairy, Calf, Poultry, and Stock Feeds.
Claims use since Oct. 16, 1920.

Ser. No. 138,687. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ARTHUR W. OBERBECK, Chicago, Ill. Filed Oct. 22, 1920.



Particular description of goods.—Scenery.
Claims use since Nov. 1, 1919.

Ser. No. 139,047. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed Nov. 1, 1920.



Particular description of goods.—Bodies for Automobiles and Parts Thereof.
Claims use since in or about 1901.

Ser. No. 139,096. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) BLUE BIRD MALT CO., Baltimore, Md. Filed Nov. 2, 1920.



No claim is made to the exclusive use of the words "Malt Extract."
Particular description of goods.—Malt Extract.
Claims use since Oct. 1, 1920.

Ser. No. 139,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRIETTE GABILLA, Paris, France. Filed Nov. 6, 1920.

FLEUR DU JOUR

Particular description of goods.—Toilet Preparations—Namely, Perfumery Extract; Toilet Water; Face-Powder; Sachet-Powder; Skin-Lotion Vegetal; Eau de Cologne; Hair-Dressing; Talcum Powder; Eau de Dentifrice, and Rouge.
Claims use since Oct. 6, 1917.

Ser. No. 139,479. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPARKS MILLING COMPANY, Terre Haute, Ind. Filed Nov. 10, 1920.

Vigola

Particular description of goods.—Wheat-Flour.
Claims use since September, 1900.

Ser. No. 139,499. (CLASS 7. CORDAGE.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920.

KLEAR SKI

Particular description of goods.—Rope, Cord, and Twine Manufactured from Vegetable Fiber.
Claims use since Apr. 30, 1914.

Ser. No. 139,502. (CLASS 7. CORDAGE.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920.

APACHE

Particular description of goods.—Rope, Cord, and Twine Manufactured from Vegetable Fiber.
Claims use since June 30, 1920.

Ser. No. 139,650. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) COE & HILL, Oklahoma, Okla. Filed Nov. 13, 1920.



Particular description of goods.—Water.
Claims use since Sept. 1, 1920.

Ser. No. 139,675. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) OLIVER OIL-GAS BURNER & MACHINE CO., St. Louis, Mo. Filed Nov. 15, 1920.



Consisting of the word "Oliver" associated fancifully with the representation of valves and a hand, as shown, the lining indicating shading only and no exclusive claim being made, without, however, waiving any common-law rights, to the representation of the goods or to the words "There's an Oliver for Every Stove, Just Turn a Valve to Cook or Heat" apart from the mark shown in the drawing.
Particular description of goods.—Oil and Gas Burners.
Claims use since May, 1918.

Ser. No. 139,895. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAPORTE & GAUTHIER, Somerset, Manitoba, Canada. Filed Nov. 20, 1920.



The word "Croustils" is disclaimed apart from the other features of the mark.
Particular description of goods.—Dietary Bread in the Form of Croustils and Tea-Biscuit.
Claims use since Apr. 12, 1920.

Ser. No. 139,974. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed Nov. 22, 1920.

IROKESE

Particular description of goods.—Rubber, Composition, Textile, Pyroxylin, Wooden, Paper, and Metal Toys—to wit, Boxed Sets of Toy Building-Blocks, Toy Implements for Use in Toy Building Construction, Toy Forms for Use in Toy Building Construction: Toy Building Materials, Such as Small Bags of Cement and the Like, and Boxed Sets of Any Combination of Toy Building-Blocks, Toy Implements, Toy Forms, and Toy Materials for Use in Toy Building Construction; Dolls, Sleds, Rubber and Pyroxylin Balls, Floating Figures, Tenpins, Bowling Sets, Bagatelle, Children's Velocipedes, and Toy Coaster-Wagons.
Claims use since Nov. 11, 1920.

Ser. No. 140,093. (CLASS 7. CORDAGE.) J. E. BARBOUR COMPANY, Paterson, N. J. Filed Nov. 24, 1920.

BULLDOG

Particular description of goods.—Twines.
Claims use since July, 1915.

Ser. No. 140,104. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Nov. 24, 1920.

"White Southern"

Particular description of goods.—Marble Cut to Size, Finished Marble, and Cut Stone.
Claims use since 1886.

Ser. No. 140,120. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PAUL HASSACK, Weehawken, N. J., assignor to Gold Medal Malt Extract Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 24, 1920.

PARADISO

Particular description of goods.—Powdered Confection for Beverage or Soda-Fountain Uses.
Claims use since Nov. 18, 1920.

Ser. No. 140,201. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OLIVER OIL-GAS BURNER & MACHINE CO., St. Louis, Mo., and San Francisco, Calif. Filed Nov. 26, 1920.

A-S-K

Particular description of goods.—A Cleansing Material for Hands and Skin.
Claims use since December, 1919.

Ser. No. 140,202. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OHIO EXPERT AUTO RADIATOR COMPANY, Cincinnati, Ohio. Filed Nov. 26, 1920.

HIL-TEST

Particular description of goods.—Automobile-Radiators.
Claims use since July 24, 1920.

Ser. No. 140,496. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEY MILLER CO., Beaumont, Tex. Filed December 1, 1920.



No claim is made to the printed matter, except the words "Shur-Kackle," apart from the mark shown by the drawing. In the drawing the words "Shur-Kackle," "Jo-Mil," and "Brand," with the representation of the chicken, show a color-lining indicating a coloration of green.

Particular description of goods.—Poultry Feed.
Claims use since Oct. 1, 1920.

Ser. No. 140,516. (CLASS 12. CONSTRUCTION MATERIALS.) THE AGASOTE MILLBOARD CO., Trenton, N. J. Filed Dec. 2, 1920.

ELECTRASOTE

Particular description of goods.—Fiber-Board Sold in Sheets.
Claims use since about Mar. 1, 1919.

Ser. No. 140,555. (CLASS 7. CORDAGE.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Dec. 3, 1920.

EL MAR

Particular description of goods.—Rope, Cord, Twine Manufactured from Vegetable Fiber.
Claims use since Oct. 26, 1920.

Ser. No. 140,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAHAM FINKENSTEIN, Omaha, Nebr. Filed Dec. 6, 1920.



Particular description of goods.—Flavoring-Matter Used in the Preparation of Pastries, Jellies, Custards, and Ice-Creams.
Claims use since Dec. 10, 1918.

Ser. No. 140,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLONIAL BISCUIT COMPANY, Philadelphia, Pa. Filed Dec. 10, 1920.

COLONIAL ASSTD. ICE CREAMS

No claim being made to the words "Asstd. Ice Creams" apart from the mark shown in the drawing.
Particular description of goods.—Cakes.
Claims use since some time in 1900.

Ser. No. 140,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAMPBELL BAKING COMPANY, Kansas City, Mo., and Wilmington, Del. Filed Dec. 10, 1920.

Paniplus

Particular description of goods.—A Patented Food Ingredient Adapted to be Mixed with Flour to Make Bread.
Claims use since July 1, 1920.

Ser. No. 140,873. (CLASS 25. LOCKS AND SAFES.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.



GUANACO

Consists of the word "Guanaco" and a picture of said animal.
Particular description of goods.—Padlocks and Locks.
Claims use since January, 1879.

Ser. No. 140,918. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) COLEMAN AND COMPANY, LIMITED, Norwich, England. Filed Dec. 11, 1920.

WINCARNIS

Particular description of goods.—Non-Alcoholic, Maltless Beverage.
Claims use since Feb. 15, 1890.

Ser. No. 141,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass. Filed Dec. 17, 1920.

HATCHET

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Dried Fish, Fresh Clams, Jams, Tea, Coffee, Tapioca, Chilli and Apple Sauces, Spices, Flavoring Extracts for Foods, Dried Fruits, Rice, Macaroni, Spaghetti, Vermicelli, Cheese, Catchups, Vinegar, Dried Currants, Raisins, Mince-Meat, Confectioners' Sugar, and Bird Food for Canaries.
Claims use since 1883.

Ser. No. 141,351. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRYANT & COMPANY, Portland, Oreg. Filed Dec. 21, 1920.

FARWEST

Particular description of goods.—Canned Fish and Canned Berries.
Claims use since May 5, 1919.

Ser. No. 141,530. (CLASS 38. PRINTS AND PUBLICATIONS.) MCGRAW-HILL COMPANY, INC., New York, N. Y. Filed Dec. 27, 1920.

INGENIERÍA INTERNACIONAL

Particular description of goods.—A Periodical Publication.
Claims use since April, 1919.

Ser. No. 141,535. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SCULLIN STEEL CO., St. Louis, Mo. Filed Dec. 27, 1920.

Particular description of goods.—Railway-Car Parts—Namely, Side Frames, Bolsters, Hopper-Shaft Bearing-Centers, Push-Pole Pockets, Body-Bolster Center-Braces, Body Center-Plates, Connecting-Links for Door Devices, Lever-Arms with Cams, Striking-Plates, Coupler Carrier-Irons, Front Draft-Lugs, Rear Draft-Lugs, Drop-Door Hinge-Butts, Journal-Bearing Wedges, Column-Slides, Truck Center-Plates, Suspension-Spring Clamps, Dead-Lever Fulcrum-Brackets, Column-Post Bases, Truck-Center-Plate Supports, Winding-Shaft Bearings, Side-Bearing Stiffeners, Column-Posts, End-Door Link-Butts, and Coupler-Yokes with Key Connections.
Claims use since Apr. 24, 1920.

Ser. No. 141,734. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCOTT'S PREPARATIONS, INC., New York, N. Y. Filed Dec. 31, 1920.



No claim is being made to the words "For Reducing" apart from the trade-mark shown in the drawing, and the picture is merely fanciful.
Particular description of goods.—A Toilet Preparation Which is Added to Baths in Order to Reduce Superfluous Flesh.
Claims use since Aug. 30, 1920.

Ser. No. 141,771. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS E. FLINT, Minoa, N. Y. Filed Jan. 3, 1921.



Consists of a photographic illustration of the applicant's feet.

Particular description of goods.—Foot-Powder.

Claims use since about Apr. 1, 1900.

Ser. No. 141,888. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNIVERSAL CANDY COMPANY, Chicago, Ill. Filed Jan. 5, 1921.

Universal

Particular description of goods.—Boxed Candy, Confections Made of Candy, Chocolate-Coated Candy, Sugar Candy, Hard Candies, Candy Made of Nuts, Candy Made of Jellies, Candy Made of Fruits, Candy Made of Conserves, Caramels, Nougats, Chocolates, Marshmallows, and Flavoring-Pastes.

Claims use since Nov. 8, 1915.

Ser. No. 141,948. (CLASS 39. CLOTHING.) ALBERT HARRIS, New York, N. Y. Filed Jan. 7, 1921.

Dolly Belle

Consisting of the words "Dolly Belle."

Particular description of goods.—Ladies' and Misses' Dresses in One-Piece Garments.

Claims use since Dec. 1, 1920.

Ser. No. 142,092. (CLASS 39. CLOTHING.) NANCY-PAM FROCKS, Forest Hills, N. Y. Filed Jan. 11, 1921.

Nancy-Pam Frocks

No claim is herein made for the word "Frock" apart from the mark shown.

Particular description of goods.—Women's Dresses, Coats, Suits, and Frocks.

Claims use since Dec. 13, 1919.

Ser. No. 142,153. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) G. LOEWUS & Co., Jersey City, N. J. Filed Jan. 12, 1921.



The lining on the drawing indicates the colors red and purple. No claim is made to the exclusive use of the words "Quality" and "Satisfaction Guaranteed" apart from the mark shown on the drawing.

Particular description of goods.—Barley-Malt Extract.

Claims use since Dec. 20, 1920.

Ser. No. 142,187. (CLASS 39. CLOTHING.) WEARWEVE FABRICS CORPORATION, New York, N. Y. Filed Jan. 12, 1921.

The lining on the drawing is for shading only and not to indicate color.

Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since Aug. 1, 1920.

Ser. No. 142,205. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE EN-TOUT-CAS COMPANY, LIMITED, Leicester, England. Filed Jan. 13, 1921.



Particular description of goods.—Tennis-Courts and Playing-Courts of Specially-Prepared Materials, Pavements, and Promenades.

Claims use since Apr. 4, 1919.

Ser. No. 142,467. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BARCLAY & Co., Wilmington, Del., and New York, N. Y. Filed Jan. 20, 1921.



The words and lines are applied in yellow upon a black ground. Aside from the word "Reuter" and the signature "John Reuter M. D." no claim is made to the exclusive use of the language appearing on the trade-mark except in so far as it may form part of the particular trade-mark.

Particular description of goods.—Soaps.

Claims use since 1880.

Ser. No. 142,565. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NEBRASKA CONSOLIDATED MILLS COMPANY, Grand Island and Hastings, Nebr. Filed Jan. 21, 1921.

SILKO

Particular description of goods.—Wheat-Flour.

Claims use since Sept. 30, 1920.

Ser. No. 142,618. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ROBERT GORDON, INCORPORATED, Chicago, Ill. Filed Jan. 22, 1921.



No claim is made herein to the exclusive use of the representation of a furnace apart from the mark shown in the drawing.

Particular description of goods.—Hot-Air Furnaces.

Claims use since Aug. 15, 1920.

Ser. No. 142,777. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAPMAN & SMITH COMPANY, Chicago, Ill. Filed Jan. 26, 1921.

BAKEREE

Particular description of goods.—A Shortening Compound.

Claims use since Feb. 26, 1919.

Ser. No. 142,923. (CLASS 39. CLOTHING.) ALBERT B. CHAUNCEY, Boston, Mass. Filed Jan. 29, 1921.



No claim being made to the word "Bow" apart from the mark shown.

Particular description of goods.—Neckties or Bows.

Claims use since Aug. 1, 1920.

Ser. No. 142,997. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & Co., INC., New York, N. Y. Filed Jan. 31, 1921.

Campesino

Particular description of goods.—Woven Cotton Piece Goods.

Claims use since July, 1920

Ser. No. 143,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands. Filed Feb. 1, 1921.



Particular description of goods.—White or Colored Dyestuffs in Powdered, Pasty, or Liquid Form.

Claims use since on or about Jan. 1, 1920.

Ser. No. 143,054. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands. Filed Feb. 1, 1921.

BIMETAL
M.Z.M.

Particular description of goods.—White or Colored Dyestuffs in Powdered, Pasty, or Liquid Form.
Claims use since on or about Jan. 1, 1920.

Ser. No. 143,057. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OREGON NURSERY COMPANY, Orenco, Oreg. Filed Feb. 1, 1921.

Yoder 1418

Particular description of goods.—Prune-Trees.
Claims use since Dec. 22, 1920.

Ser. No. 143,098. (CLASS 39. CLOTHING.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Feb. 2, 1921.

Compo

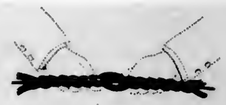
Particular description of goods.—Belts for Personal Wear.
Claims use since Jan. 18, 1921.

Ser. No. 143,106. (CLASS 7. CORDAGE.) TUBBS CORDAGE COMPANY, San Francisco, Calif. Filed Feb. 2, 1921.



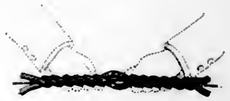
The trade-mark consists of an elongated lineal black marker or label in the form of a yarn, thread, paper twine, or the like separate from the structural parts of the rope and constituting no part of the rope, but located in the interior of the rope and inclosed by the rope-strands. No claim is made herein for the representation of the rope or the hands shown in the drawing, these being shown merely to illustrate the method by which the black lineal marker or label may be detected at an intermediate point in the rope.
Particular description of goods.—Rope Made from Fiber.
Claims use since the latter part of 1906.

Ser. No. 143,107. (CLASS 7. CORDAGE.) TUBBS CORDAGE COMPANY, San Francisco, Calif. Filed Feb. 2, 1921.



The trade-mark consists of an elongated lineal white marker or label in the form of a yarn, thread, paper twine, or the like separate from the structural parts of the rope and constituting no part of the rope, but located in the interior of the rope and inclosed by the rope. No claim is made herein for the representation of the rope or the hands shown in the drawing, these being shown merely to illustrate the method by which the white lineal marker or label may be detected at an intermediate point in the rope.
Particular description of goods.—Manila Rope.
Claims use since the latter part of 1906.

Ser. No. 143,108. (CLASS 7. CORDAGE.) TUBBS CORDAGE COMPANY, San Francisco, Calif. Filed Feb. 2, 1921.



The trade-mark consists of an elongated lineal orange or yellow marker or label in the form of a yarn, thread, paper twine, or the like separate from the structural parts of the rope and constituting no part of the rope, but located in the interior of the rope and inclosed by the rope-strands. No claim is made herein for the representation of the rope or the hands shown in the drawing, these being shown merely to illustrate the method by which the orange or yellow lineal marker or label may be detected at an intermediate point in the rope.
Particular description of goods.—Sisal Rope.
Claims use since the latter part of 1906.

Ser. No. 143,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTHA E. BEAUFORD, Los Angeles, Calif. Filed Feb. 3, 1921.



Particular description of goods.—A Salve for the Treatment of Eczema, Poison Oak or Ivy Poisoning, Piles, Scalds, and Burns.
Claims use since Jan. 17, 1921.

Ser. No. 143,156. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CINCINNATI CHEMICAL WORKS, INC., Cincinnati, Ohio. Filed Feb. 4, 1921.



Particular description of goods.—Dyestuffs.
Claims use since September, 1920.

Ser. No. 143,181. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NESTLE'S FOOD COMPANY, INC., New York, N. Y. Filed Feb. 4, 1921.

NESTLE'S LION BRAND EVAPORATED MILK

No rights being claimed in the words "Brand" or "Evaporated Milk" apart from the other features of the mark.
Particular description of goods.—Evaporated Milk.
Claims use since Jan. 1, 1920.

Ser. No. 143,182. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NESTLE'S FOOD COMPANY, INC., New York, N. Y. Filed Feb. 4, 1921.

NESTLE'S LION BRAND CONDENSED MILK

No rights being claimed in the words "Brand" or "Condensed Milk" apart from the other features of the mark.
Particular description of goods.—Condensed Milk.
Claims use since Jan. 1, 1920.

Ser. No. 143,200. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WAYNE A. BROOKS, Detroit, Mich. Filed Feb. 5, 1921.

FIX-EM

Particular description of goods.—Diarrhea Remedy Prepared Especially for Domestic Fowl.
Claims use since May 7, 1920.

Ser. No. 143,209. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CAREY SALT CO., Hutchinson, Kans. Filed Feb. 5, 1921.

Lily

Particular description of goods.—Salt.
Claims use since Feb. 1, 1903.

Ser. No. 143,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEO SHAPIRO COMPANY, Minneapolis, Minn. Filed Feb. 5, 1921.

PARI'AGEN

Particular description of goods.—Antiseptic Prophylactic Tablets.
Claims use since on or about Sept. 1, 1920.

Ser. No. 143,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARAHO CO., INC., New York, N. Y. Filed Feb. 7, 1921.

ARAHO

Particular description of goods.—Toilet Preparations, Face-Powder, Rouge, Grease Paint, and Lip-Sticks.
Claims use since January, 1920.

Ser. No. 143,244. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ACME ABRASIVE COMPANY, Chicago, Ill. Filed Feb. 7, 1921.

IMPERIAL

No claim being made to the exclusive use of the words "Imperial Commutator Stones" apart from the other features of the mark shown.
Particular description of goods.—Grinding and Polishing Stones.
Claims use since September, 1920.

Ser. No. 143,321. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KLINKER MANUFACTURING CO., Cleveland, Ohio. Filed Feb. 8, 1921.

Vanitas

Particular description of goods.—Liquid Face-Powder, Cold-Cream, Vanishing Cream, Cucumber Cream, Honey and Almond Cream, Perfume, Bandoline, Orris-Root, Cocoanut-Oil Shampoo, Hair-Tonic, Cocoa-Butter Tissue-Builder, Violet and Witch-Hazel, and Toilet Water.
Claims use since May, 1918.

Ser. No. 143,323. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KLINKER MANUFACTURING CO., Cleveland, Ohio. Filed Feb. 8, 1921.

Ardyn

Particular description of goods.—Cold-Cream, Peroxid Vanishing Cream, Cocoa-Butter, Tissue-Cream; Benzoin, Honey, and Almond Cream; Cocoanut-Oil Shampoo, Toilet Water, and Perfume.
Claims use since January, 1920.

Ser. No. 143,353. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMAN FIERMAN, Wilkes-Barre, Pa. Filed Feb. 9, 1921.

Troyanka-Nostoyka

Particular description of goods.—Liquid Tonic Having Stomachic-Stimulant and Laxative Characteristics.
Claims use since about May 1, 1920.

Ser. No. 143,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ST. LAWRENCE MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 11, 1921.

Amour

Particular description of goods.—Hair-Tonic.
Claims use since about Nov. 15, 1920.

Ser. No. 143,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STAR EXTRACT WORKS, New York, N. Y. Filed Feb. 12, 1921.

Ko-Karas

Particular description of goods.—A Flavoring Compound Extract for Ice-Cream.
Claims use since Feb. 8, 1917.

Ser. No. 143,538. (CLASS 38. PRINTS AND PUBLICATIONS.) CALIFORNIA STATE AUTOMOBILE ASSOCIATION, San Francisco, Calif. Filed Feb. 14, 1921.

Motor Land

Particular description of goods.—A Publication Published Monthly.
Claims use since Mar. 1, 1919.

Ser. No. 143,543. (CLASS 39. CLOTHING.) CEE BEE GEE DRESS CO., New York, N. Y. Filed Feb. 14, 1921.



No claim being made to the lining indicating red on the drawing.
Particular description of goods.—Dresses.
Claims use since 1920.

Ser. No. 143,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTIN LUTHER MOORE, Memphis, Tenn. Filed Feb. 14, 1921.

STOMATONE

Particular description of goods.—Tonic for Use in the Treatment of Constipation, Indigestion, Kidney Trouble, and Pellagra.
Claims use since 1914.

Ser. No. 143,588. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE L. D. CAULK COMPANY, Milford, Del. Filed Feb. 15, 1921.

MERCITAN

Particular description of goods.—A Preparation for the Treatment of Pyorrhea.
Claims use since Feb. 5, 1921.

Ser. No. 143,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERSTATE DRUG COMPANY, New York, N. Y. Filed Feb. 15, 1921.

DALYS

Particular description of goods.—A Tonic of Cod-Liver Extract, Malt, Wild Cherry, and Hypophosphites.
Claims use since on or about Jan. 15, 1921.

Ser. No. 143,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NEEDHAM PRODUCTS COMPANY, Cleveland, Ohio. Filed Feb. 15, 1921.

CREOPINE

Particular description of goods.—A Medicine.
Claims use since April, 1918.

Ser. No. 143,680. (CLASS 39. CLOTHING.) BRAY & STANLEY, Beverly, Mass. Filed Feb. 17, 1921.

Shurwool

Particular description of goods.—Boots and Shoes of Leather, Canvas, and Felt.
Claims use since Jan. 11, 1917.

Ser. No. 143,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISS SAYLOR'S CHOCOLATES, INC., Alameda, Calif. Filed Feb. 17, 1921.

Miss Saylor's

Particular description of goods.—Candy.
Claims use since June, 1920.

Ser. No. 143,902. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN CHEESE AND BUTTER CO., Nicasio, Calif. Filed Feb. 23, 1921.



Applicant disclaims the use of the words "Vacuum Packed," "Gratin Brand," and "Grated Cheese" apart from the other features of the mark.
Particular description of goods.—Grated Cheese.
Claims use since Jan. 15, 1921.

Ser. No. 143,926. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEHOE PRESERVING COMPANY, Terre Haute and Clay City, Ind. Filed Feb. 23, 1921.



Particular description of goods.—Pickled Sweet Peppers; Chopped Pimento; Chutney; Peruviana Preserves; Stuffed Green Pimentos, and Tomato Jam.
Claims use since Nov. 23, 1919.

Ser. No. 143,949. (CLASS 39. CLOTHING.) PEARSON BROTHERS, London, England. Filed Feb. 23, 1921.



Particular description of goods.—Waterproof Coats.
Claims use since Mar. 25, 1916.

Ser. No. 143,958. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHOENING-KOENIGSMARK MILLING CO., Valmeyer, Ill. Filed Feb. 23, 1921.

FAD

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since July, 1916.

Ser. No. 143,960. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHOENING-KOENIGSMARK MILLING CO., Valmeyer, Ill. Filed Feb. 23, 1921.

JIFFY

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since July, 1916.

Ser. No. 144,071. (CLASS 38. PRINTS AND PUBLICATIONS.) EL COMERCIO PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 26, 1921.

EL AUTOMOVILISTA

Particular description of goods.—A Monthly Publication.
Claims use since Feb. 7, 1921.

Ser. No. 144,082. (CLASS 12. CONSTRUCTION MATERIALS.) THE GORHAM BROTHERS COMPANY, Mount Pleasant, Mich. Filed Feb. 26, 1921.



Particular description of goods.—Built-Up Wood, Plywood.
Claims use since 1909.

Ser. No. 144,233. (CLASS 12. CONSTRUCTION MATERIALS.) HAWKINS LUMBER COMPANY, Boston, Mass. Filed Mar. 2, 1921.



No claim is made to the words "Distributors" and "Trade Mark" nor to the representation of the goods apart from the remainder of the mark shown in the drawing.
Particular description of goods.—Lumber.
Claims use since January, 1920.

Ser. No. 144,243. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) NEW ENGLAND BREWING COMPANY, Jersey City, N. J., and Boston, Mass. Filed Mar. 2, 1921.



Particular description of goods.—A Concentrated Material Brewed from Malt and Hops Suitable for the Making of a Malt Beverage.
Claims use since Dec. 1, 1920.

Ser. No. 144,244. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) NEW ENGLAND BREWING COMPANY, Jersey City, N. J., and Boston, Mass. Filed Mar. 2, 1921.

Pick

Particular description of goods.—A Concentrated Material Brewed from Malt and Hops Suitable for the Making of a Malt Beverage.
Claims use since Dec. 1, 1920.

Ser. No. 144,313. (CLASS 12. CONSTRUCTION MATERIALS.) THE DIAMOND METAL WEATHER STRIP CO., Columbus, Ohio. Filed Mar. 5, 1921.



No claim being made to the words "Practical Metal Weather Stripping" apart from the other features of the mark.
Particular description of goods.—Metal Weather-Stripping.
Claims use since 1915.

Ser. No. 144,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GIUSEPPE GANDOLFO, New York, N. Y. Filed Mar. 5, 1921.



No claim is made to the words "Always Ask for Tipo Palermo Gandolfo Bread."
Particular description of goods.—Bread.
Claims use since Sept. 1, 1920.

Ser. No. 144,332. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JERSEYVILLE NURSERY, Dow and Jerseyville, Ill. Filed Mar. 5, 1921.



No claim being made to the exclusive use of the words "The Apple" nor to the representation of the fruit-tree and the fruit thereon apart from the mark as shown on the drawing.
Particular description of goods.—Fruit-Trees.
Claims use since Feb. 4, 1921.

Ser. No. 144,383. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. WILLIAM E. CRAIG, Joplin, Mo. Filed Mar. 7, 1921.

Hg NON-TOX

No claim is made for "Hg" apart from the mark as shown in the drawing.
Particular description of goods.—A Medicinal Preparation for the Treatment of Syphilis and Kindred Diseases.
Claims use since Aug. 1, 1919.

Ser. No. 144,388. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Mar. 7, 1921.



Particular description of goods.—House-Dresses and Aprons.
Claims use since about Jan. 15, 1921.

Ser. No. 144,402. (CLASS 39. CLOTHING.) MODERN CAP MFG. COMPANY, St. Louis, Mo. Filed Mar. 7, 1921.

Society

Particular description of goods.—Children's, Men's, and Boys' Cloth Hats and Caps, Also Straws and Felts for Men, Women, and Children.
Claims use since August, 1920.

Ser. No. 144,410. (CLASS 36. PRINTS AND PUBLICATIONS.) THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio. Filed Mar. 7, 1921.

THE NCR

Particular description of goods.—Periodicals, Which Periodicals are Issued Weekly or Oftener, as Deemed Advisable.
Claims use since about June, 1887.

Ser. No. 144,430. (CLASS 39. CLOTHING.) SAWYER BOOT & SHOE CO., Bangor, Me. Filed Mar. 7, 1921.

MOC-SHU

Particular description of goods.—Moccasins.
Claims use since about Jan. 1, 1921.

Ser. No. 144,435. (CLASS 39. CLOTHING.) SCHROEDER & COMPANY, INC., New York, N. Y. Filed Mar. 7, 1921.

Dorothy Dvine

"Dorothy Dvine," as the same appears in the accompanying drawing and on the accompanying labels, is a facsimile of the name in the handwriting of Minna E. Schroeder, president of the applicant.
Particular description of goods.—Girls' and Misses' Dresses.
Claims use since Jan. 3, 1920.

Ser. No. 144,445. (CLASS 39. CLOTHING.) JOSEPH C. BOSSONG, Brooklyn, N. Y. Filed Mar. 8, 1921.

SPIRIT OF '76

Particular description of goods.—Ladies', Children's, and Men's Hosiery.
Claims use since Dec. 18, 1920.

Ser. No. 144,569. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN GOLDING, Atlanta, Ga. Filed Mar. 10, 1921.

GOLDING
WAX-O

Particular description of goods.—Liquid Wax Polish.
Claims use since about October, 1916.

Ser. No. 144,710. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) DUNNE-MCCORD COMPANY INC., Syracuse, N. Y., and Evansville, Ind. Filed Mar. 14, 1921.

SENSATION

Particular description of goods.—A Compound of Malt, Hops, and Sugar for Making a Beverage.
Claims use since Jan. 12, 1921.

Ser. No. 144,821. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EDWARD K. LINCOLN, New York, N. Y. Filed Mar. 16, 1921.



Particular description of goods.—Cleaning Fluids, Black-Leather Polish, Auto-Top Dressing.
Claims use since Nov. 15, 1918.

Ser. No. 144,874. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PUMPLESS BLOW TORCH COMPANY, Pittsburgh, Pa. Filed Mar. 17, 1921.



Particular description of goods.—Blow-Torches and Gas-Heaters.
Claims use since Dec. 3, 1919.

Ser. No. 144,876. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. C. RUDOLPH & COMPANY, INC., Chicago, Ill. Filed Mar. 17, 1921.



Particular description of goods.—Cheese.
Claims use since about 1901.

Ser. No. 144,880. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Mar. 17, 1921.

SUR-FAS-RITE

Particular description of goods.—Soft Paste Paint to be Applied on Wood and on Metal Surfaces.
Claims use since Sept. 30, 1920.

Ser. No. 144,905. (CLASS 7. CORDAGE.) THE GRAND LAKE COMPANY, INC., New York, N. Y. Filed Mar. 18, 1921.



Particular description of goods.—Fiber Cord, Fiber Reed, and Fiber Stakes.
Claims use since Jan. 11, 1921.

Ser. No. 144,906. (CLASS 7. CORDAGE.) THE GRAND LAKE COMPANY, INC., New York, N. Y. Filed Mar. 18, 1921.

WILL-O-WEAV

Particular description of goods.—Fiber Cord, Fiber Reed, and Fiber Stakes.
Claims use since Jan. 11, 1921.

Ser. No. 144,954. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Filed Mar. 19, 1921.

MULTISTE

Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 18, 1921.

Ser. No. 144,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IMPERIAL CANDY COMPANY, Seattle, Wash. Filed Mar. 19, 1921.

RUGGED BAR

The word "Bar" is disclaimed apart from the other features of the mark.
Particular description of goods.—Candy.
Claims use since Aug. 1, 1910.

Ser. No. 145,008. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CASTLE BRAID COMPANY, New York, N. Y. Filed Mar. 21, 1921.

LASCEA

Particular description of goods.—Braid for Crocheting and Knitting.
Claims use since June 1, 1916.

Ser. No. 145,044. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMPSON MILLING CO., Lockport, N. Y. Filed Mar. 21, 1921. Under ten-year proviso.

Saratoga

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 1, 1881.

Ser. No. 145,140. (CLASS 43. THREAD AND YARN.) HYMAN WEISSBERG, New York, N. Y. Filed Mar. 23, 1921.



No claim is made to the words "Good Worsted Yarns, Brand" apart from the mark shown in the drawing.
Particular description of goods.—Yarns.
Claims use since Dec. 1, 1920.

Ser. No. 145,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo. Filed Mar. 24, 1921.

Harvester

Particular description of goods.—Apple-Butter, Fruit Preserves, Jam, Mince-Meat, and Jellies.
Claims use since June, 1914.

Ser. No. 145,178. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo. Filed Mar. 24, 1921.

INSPECTOR

Particular description of goods.—Mince-Pie Filling, Fruit Preserves, Jam, Apple-Butter, Fruit Jelly, and Serghum with Corn-Syrup.
Claims use since 1913 on mince-pie filling, fruit preserves, apple-butter, and fruit jelly and since 1914 on serghum with corn-syrup.

Ser. No. 145,180. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo. Filed Mar. 24, 1921.

Tre-Vyn

Particular description of goods.—Fruit Preserves and Jams.
Claims use since Aug. 14, 1913.

Ser. No. 145,242. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS STAR FLOUR MILLS, Galveston, Tex. Filed Mar. 25, 1921.

ANITA

Particular description of goods.—Wheat-Flour.
Claims use since 1896.

Ser. No. 145,244. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS STAR FLOUR MILLS, Galveston, Tex. Filed Mar. 25, 1921.

TIDAL WAVE

Particular description of goods.—Wheat-Flour.
Claims use since June 26, 1879.

Ser. No. 145,303. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ANSTED & BURK CO., Springfield, Ohio. Filed Mar. 28, 1921.



SEMINOLE

The picture in the drawing being fanciful.
Particular description of goods.—Wheat-Flour and Cornmeal.
Claims use since Feb. 1, 1915.

Ser. No. 145,338. (CLASS 38. PRINTS AND PUBLICATIONS.) PELS-JONES, New York, N. Y. Filed Mar. 28, 1921.

Appearance

Particular description of goods.—A Monthly Publication.
Claims use since Mar. 21, 1921.

Ser. No. 145,401. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHAS. M. HATCHER MFG. CO., Philadelphia, Pa. Filed Mar. 29, 1921.



No claim being made to the word "Ink" apart from the mark shown.
Particular description of goods.—Shoe-Ink.
Claims use since 1900.

Ser. No. 145,591. (CLASS 38. PRINTS AND PUBLICATIONS.) RETAIL MILLINERY ASSOCIATION OF AMERICA, New York, N. Y. Filed Apr. 1, 1921.

The Millinery Bulletin

Particular description of goods.—A Trade Publication Issued Biweekly.
Claims use since February, 1917.

Ser. No. 145,620. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FREUND, FREUND & CO., New York, N. Y. Filed Apr. 2, 1921.

STRONGHOLD

Particular description of goods.—Cotton Cloth in the Piece.
Claims use since Mar. 29, 1921.

Ser. No. 145,909. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PACIFIC NOVELTY COMPANY, New York, N. Y. Filed Apr. 8, 1921.



The picture shown is fanciful, and the word "Perfection" is disclaimed when used apart from the mark shown.
Particular description of goods.—Hairpins.
Claims use since Aug. 10, 1910.

Ser. No. 145,959. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Apr. 9, 1921.



SALVAVIDAS

Particular description of goods.—Woven Cotton Piece Goods—Namely, Wide Bleached Sheetings.
Claims use since February, 1920.

Ser. No. 146,017. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WM. HOMER HEWITT, Chicago, Ill. Filed Apr. 11, 1921.

SANS PEUR

Particular description of goods.—Soap.
Claims use since Dec. 18, 1920.

Ser. No. 146,229. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed Apr. 15, 1921.

DYESTUFFS

Particular description of goods.—A Periodical Issued Monthly.
Claims use since January, 1899.

Ser. No. 146,239. (CLASS 38. PRINTS AND PUBLICATIONS.) THE SHOE RETAILER COMPANY, Boston, Mass. Filed Apr. 15, 1921.

The SHOE RETAILER

The words "The Shoe Retailer."
Particular description of goods.—A Periodical Published Weekly.
Claims use since 1898.

Ser. No. 146,311. (CLASS 38. PRINTS AND PUBLICATIONS.) GOSHEN SASH AND DOOR COMPANY, Goshen, Ind. Filed Apr. 18, 1921.

Sawdust

Particular description of goods.—Title of a Trade Pamphlet Issued Monthly.
Claims use since January, 1921.

Ser. No. 146,331. (CLASS 7. CORDAGE.) PLYMOUTH CORDAGE COMPANY, Plymouth, Mass. Filed Apr. 18, 1921.

Black Knight

Particular description of goods.—Binder-Twine.
Claims use since Apr. 4, 1921.

Ser. No. 146,332. (CLASS 7. CORDAGE.) PLYMOUTH CORDAGE COMPANY, Plymouth, Mass. Filed Apr. 18, 1921.

TRIMONT

Particular description of goods.—Binder-Twine.
Claims use since Apr. 4, 1921.

Ser. No. 146,430. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. H. GILBERG & CO., New York, N. Y. Filed Apr. 20, 1921.

GILCO FABRICS

No claim is made to the word "Fabrics" or to the map or the geographic matter thereon set forth apart from the mark shown in the drawing. The letters of the trade-mark are printed in black and the map is printed in green.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1921.

Ser. No. 146,514. (CLASS 16. PAINT AND PAINTERS' MATERIALS.) ADAMS & ELTING CO., Chicago, Ill. Filed Apr. 22, 1921.

STAIN-BRITE

Particular description of goods.—Varnish-Stains.
Claims use since Feb. 18, 1921.

Ser. No. 146,708. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Apr. 25, 1921.

Kriss-Kross

Particular description of goods.—Silks in the Piece.
Claims use since Apr. 16, 1921.

Ser. No. 146,709. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Apr. 25, 1921.

DAF-O-DIL

Particular description of goods.—Silks in the Piece.
Claims use since Apr. 16, 1921.

Ser. No. 146,710. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Apr. 25, 1921.

BUN-NY-FLUFF

Particular description of goods.—Silks in the Piece.
Claims use since Apr. 16, 1921.

Ser. No. 146,725. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HANNAH J. MILLER, Camden, N. J. Filed Apr. 25, 1921.

MEGO

Particular description of goods.—Washing Fluids.
Claims use since Apr. 9, 1912.

Ser. No. 146,820. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH FLEISCHER, New York, N. Y. Filed Apr. 27, 1921.

Uneeda

Particular description of goods.—Hair-Nets.
Claims use since Jan. 1, 1921.

Ser. No. 146,837. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Apr. 27, 1921.

Drappélla

Particular description of goods.—Silk Piece Goods.
Claims use since January, 1921.

Ser. No. 146,855. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM O. WELCH, Milwaukee, Wis. Filed Apr. 27, 1921.

PHOT-O-STAMP

Particular description of goods.—Photographs.
Claims use since on or about Sept. 5, 1920.

Ser. No. 146,882. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Automobile-Bumpers, Pedal-Rubbers Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,889. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Automobile-Bumpers, Pedal-Rubbers Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,896. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Automobile-Bumpers, Pedal-Rubbers Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,937. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LEON STEIN, New York, N. Y. Filed Apr. 28, 1921.

CHARMONET

Particular description of goods.—Hair-Nets.
Claims use since Mar. 23, 1921.

Ser. No. 146,952. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BONNIE-B COMPANY, INC., New York, N. Y. Filed Apr. 29, 1921.

Smart Set

Particular description of goods.—Hair-Nets.
Claims use since Apr. 1, 1921.

Ser. No. 146,953. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BONNIE-B COMPANY, INC., New York, N. Y. Filed Apr. 29, 1921.

FAIRYNETTE

Particular description of goods.—Hair-Nets.
Claims use since Apr. 19, 1921.

Ser. No. 146,954. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHIN-CHIN CHEMICAL COMPANY, Chicago, Ill. Filed Apr. 29, 1921.



Particular description of goods.—A Liquid Furniture and Automobile Polish.
Claims use since July 1, 1918.

Ser. No. 146,987. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUSTAV SATTLER, New York, N. Y. Filed Apr. 29, 1921.

Wera

Consisting of the word "Wera."
Particular description of goods.—Hair-Nets.
Claims use since Apr. 19, 1920.

Ser. No. 147,169. (CLASS 38. PRINTS AND PUBLICATIONS.) JOSEPH P. MCADAMS, New York, N. Y. Filed May 3, 1921.

THE WINNING POST

"The Winning Post."
Particular description of goods.—A Weekly Newspaper.
Claims use since Aug. 7, 1920.

Ser. No. 147,189. (CLASS 7. CORDAGE.) THE M. J. GRADY COMPANY, INCORPORATED, New York, N. Y. Filed May 4, 1921.

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Particular description of goods.—Twine and Cordage.
Claims use since February, 1921.

Ser. No. 147,231. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CORBELL, WILLIAMS AND COMPANY, New York, N. Y. Filed May 5, 1921.

STRONGHOLD

Consisting of the word "Stronghold."
Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 1, 1908.

Ser. No. 147,371. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK TRIBUNE, INC., New York, N. Y. Filed May 7, 1921.

Among Us Mortals

Particular description of goods.—Title of a Newspaper-Section.
Claims use since Oct. 15, 1916.

Ser. No. 147,837. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL INC., New York, N. Y. Filed May 17, 1921.



Particular description of goods.—Silk Goods in the Piece.
Claims use since Apr. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 21, 1921.

143,879. INGOTS, CASTINGS, RODS, AND SHEETS OF ALUMINUM AND ALUMINUM ALLOYS. THE ACIERAL COMPANY OF AMERICA, New York, N. Y.
Filed January 23, 1917. Serial No. 100,840. PUBLISHED MARCH 1, 1921.

143,880. INTERNAL-COMBUSTION ENGINES. THE ADCO MANUFACTURING CO., Columbus, Ohio.
Filed October 25, 1920. Serial No. 138,742. PUBLISHED MARCH 1, 1921.

143,881. HAY-PRESSES. THE ADCO MANUFACTURING CO., Columbus, Ohio.
Filed October 25, 1920. Serial No. 138,743. PUBLISHED MARCH 1, 1921.

143,882. ENGINE PARTS AND ACCESSORIES CONSISTING OF PISTONS FOR GAS-ENGINES AND CARBURETERS. ALLOYS MOTOR PARTS MFG. CO., Tacoma, Wash.
Filed October 6, 1920. Serial No. 137,991. PUBLISHED MARCH 1, 1921.

143,883. A COMPOSITION USED TO KEEP WATER IN AUTOMOBILE-RADIATORS FROM FREEZING. AMERICAN AUTOBLOOD COMPANY, Seattle, Wash.
Filed September 28, 1920. Serial No. 137,693. PUBLISHED MARCH 1, 1921.

143,884. CERTAIN MACHINES AND EQUIPMENTS FOR USE BY BAKERS. AMERICAN BAKERS MACHINERY COMPANY, St. Louis, Mo.
Filed November 17, 1920. Serial No. 139,731. PUBLISHED MARCH 1, 1921.

143,885. WOMEN'S UNDERSKIRTS AND PETTICOATS. AMERICAN HOME ECONOMICS ASSOCIATION, Baltimore, Md.
Filed November 27, 1920. Serial No. 140,243. PUBLISHED MARCH 29, 1921.

143,886. WOVEN SILK FABRIC IN THE BOLT OR PIECE. AMERICAN HOME ECONOMICS ASSOCIATION, Baltimore, Md.
Filed November 27, 1920. Serial No. 140,244. PUBLISHED MARCH 15, 1921.

143,887. BAGGING MANUFACTURED FROM JUTE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed November 11, 1920. Serial No. 139,492. PUBLISHED MARCH 15, 1921.

143,888. BAGGING MANUFACTURED FROM JUTE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed November 11, 1920. Serial No. 139,495. PUBLISHED MARCH 15, 1921.

143,889. TOILET POWDER, SHAVING-LOTION, TOOTH-POWDER, COLD-CREAM, AND TOILET WATER. AMERICAN SAFETEE SOAP CORPORATION, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y.
Filed April 14, 1920. Serial No. 131,097. PUBLISHED MARCH 8, 1921.

143,890. MONTHLY PUBLICATION. AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS, Ames, Iowa.
Filed November 22, 1920. Serial No. 139,929. PUBLISHED MARCH 8, 1921.

143,891. PERIODICAL MAGAZINE. THE ARCHITECTS' SMALL HOUSE SERVICE BUREAU OF MINNESOTA, INC., Minneapolis, St. Paul, and Duluth, Minn., and Grand Forks, N. D.
Filed January 8, 1921. Serial No. 141,959. PUBLISHED MARCH 15, 1921.

143,892. CHILDREN'S UNDERWEAR—NAMELY, CHILDREN'S NAINSOOK WAIST UNION-SUITS. ATHLETIC UNDERWEAR COMPANY, INC., New York, N. Y.
Filed April 24, 1920. Serial No. 131,547. PUBLISHED MARCH 29, 1921.

143,893. GRASS-SEED LAWN MIXTURE. ATLANTIC GRASS SEED CO., INC., New York, N. Y.
Filed September 2, 1920. Serial No. 136,732. PUBLISHED MARCH 15, 1921.

143,894. GRASS-SEED LAWN MIXTURE. ATLANTIC GRASS SEED CO., INC., New York, N. Y.
Filed September 2, 1920. Serial No. 136,733. PUBLISHED MARCH 15, 1921.

143,895. PERIODICAL PUBLISHED MONTHLY. THE ATLANTIC MONTHLY COMPANY, Boston, Mass.
Filed January 4, 1921. Serial No. 141,849. PUBLISHED MARCH 15, 1921.

143,896. STOVES OTHER THAN ELECTRIC. ATLANTA STOVE WORKS, Atlanta, Ga.
Filed December 3, 1920. Serial No. 140,556. PUBLISHED MARCH 29, 1921.

143,897. TOOL-STEEL. ATLAS CRUCIBLE STEEL CO., Dunkirk, N. Y.
Filed November 18, 1920. Serial No. 139,780. PUBLISHED MARCH 1, 1921.

143,898. STEEL. ATLAS CRUCIBLE STEEL CO., Dunkirk, N. Y.
Filed November 18, 1920. Serial No. 139,781. PUBLISHED MARCH 1, 1921.

143,899. AUXILIARY AIR-INLET DEVICES FOR INTERNAL-COMBUSTION ENGINES, GREASE-CUPS, AND GREASE-GUNS. THE AUTOMOTIVE MANUFACTURING COMPANY, Dayton, Ohio.
Filed April 30, 1919. Serial No. 118,006. PUBLISHED JUNE 15, 1920.

143,900. MEN'S SILK SHIRTS. M. AUERBACH & SONS, New York, N. Y.
Filed November 20, 1920. Serial No. 139,877. PUBLISHED MARCH 22, 1921.

143,901. CHEMICAL OILS AND GREASES USED FOR EXPANDING WOOD AND ARRESTING THE SHRINKAGE THEREOF. AUTOMOTIVE SPECIALTY MANUFACTURING CO., Sacramento, Calif.
Filed August 16, 1920. Serial No. 136,146. PUBLISHED MARCH 1, 1921.

143,902. ORGANDIE, ENGLISH PRINTED VOILES, DOTTED SWISSES, AND FRENCH NOVELTIES, IN THE PIECE. HARRY J. BACHRACH, New York, N. Y.
Filed September 30, 1920. Serial No. 137,759. PUBLISHED MARCH 22, 1921.

143,903. OVERALLS, COATS, TROUSERS, ONE-PIECE WORK-SUITS, AND WORK-SHIRTS. J. BAKER & SONS, Evansville, Ind.
Filed November 6, 1920. Serial No. 139,246. PUBLISHED MARCH 29, 1921.

143,904. MAGAZINE PUBLISHED FROM TIME TO TIME. THE BALDWIN COMPANY, Cincinnati, Ohio.
Filed October 16, 1920. Serial No. 138,372. PUBLISHED MARCH 1, 1921.

143,905. TEXTILE FABRICS—NAMELY, SILK JERSEY-CLOTH. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed November 2, 1920. Serial No. 139,071. PUBLISHED MARCH 22, 1921.

143,906. BENDS OF SOLE-LEATHER. PETER BARBIERI, Perth Amboy, N. J.
Filed September 25, 1920. Serial No. 137,603. PUBLISHED MARCH 22, 1921.

143,907. GAS WATER-HEATERS. BASTIAN-MORLEY CO., Laporte, Ind.
Filed October 23, 1920. Serial No. 138,701. PUBLISHED MARCH 29, 1921.

143,908. SILK PIECE GOODS. BERFELDEN MILLS INC., Plainfield, N. J., and New York, N. Y.
Filed November 2, 1920. Serial No. 139,069. PUBLISHED MARCH 15, 1921.

143,909. CERTAIN ARTICLES OF STEEL CUTLERY. SAMUEL E. BERNSTEIN, New York, N. Y.
Filed July 31, 1919. Serial No. 121,140. PUBLISHED MARCH 1, 1921.

143,910. HAIR-GROWER. THOMAS W. BERRY, Galesburg, Ill.
Filed September 24, 1918. Serial No. 113,324. PUBLISHED JUNE 22, 1920.

143,911. INTERNAL-COMBUSTION ENGINES, OIL-WELL-PUMPING POWERS, AND FLUID-COMPRESSORS. THE BESSEMER GAS ENGINE COMPANY, Grove City, Pa.
Filed July 24, 1920. Serial No. 135,355. PUBLISHED MARCH 1, 1921.

143,912. CERTAIN MACHINERY AND WATER COOLED EQUIPMENT FOR FURNACES. BLAW-KNOX COMPANY, Pittsburgh, Pa.
Filed July 8, 1920. Serial No. 134,693. PUBLISHED MARCH 1, 1921.

143,913. LINIMENTS. JOSEPH W. BOOTHE, Portsmouth, Ohio.
Filed August 5, 1920. Serial No. 135,800. PUBLISHED MARCH 1, 1921.

143,914. CERTAIN ARTICLES OF INFANTS' UNDERWEAR MADE OF KNITTED MATERIAL. THE BOSTON KNITTING MILLS, Boston, Mass.
Filed November 11, 1920. Serial No. 139,508. PUBLISHED MARCH 22, 1921.

143,915. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. BUCKINGHAM & HECHT, San Francisco, Calif.
Filed September 15, 1920. Serial No. 137,197. PUBLISHED MARCH 22, 1921.

143,916. SAFETY-PINS. BURNSTINE AND NACHMAN, New York, N. Y.
Filed October 2, 1920. Serial No. 137,820. PUBLISHED MARCH 8, 1921.

143,917. HAIR-NETS. BURNSTINE AND NACHMAN, New York, N. Y.
Filed October 30, 1920. Serial No. 138,977. PUBLISHED MARCH 15, 1921.

143,918. CATALOGUES PUBLISHED FROM TIME TO TIME. CADY & OLMSTEAD JEWELRY CO., Kansas City, Mo.
Filed December 6, 1920. Serial No. 140,635. PUBLISHED MARCH 8, 1921.

143,919. PHOTOGRAPHIC FILMS. CHASTAINS' INCORPORATED, Lewiston, Idaho.
Filed October 6, 1920. Serial No. 138,004. PUBLISHED MARCH 1, 1921.

143,920. FABRICS OF SILK AND SILK MIXTURES IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed December 24, 1918. Serial No. 114,803. PUBLISHED MARCH 15, 1921.

143,921. FACE-POWDERS, FACE-CREAMS, AND ROUGE. SYMA COHEN, Chicago, Ill.
Filed July 20, 1920. Serial No. 135,221. PUBLISHED MARCH 1, 1921.

143,922. WRINKLE-ERADICATOR AND MUSCLE-BUILDER FOR FLABBY, SAGGY FACES AND A HAIR-TONIC AND DANDRUFF CURE. NEVA C. COON, Washington, D. C.
Filed October 8, 1920. Serial No. 138,084. PUBLISHED MARCH 1, 1921.

143,923. LIQUID COMPOUND FOR RHEUMATISM AND MUSCULAR PAIN. HORACE M. COLLINS, Los Angeles, Calif.
Filed July 29, 1920. Serial No. 135,550. PUBLISHED MARCH 1, 1921.

143,924. HAIR-TONIC. DOMENICO COSTARELLA, New York, N. Y.
Filed September 20, 1920. Serial No. 137,363. PUBLISHED MARCH 8, 1921.

143,925. SHOES MADE OF LEATHER OR A COMBINATION OF LEATHER AND FABRIC. J. & T. COUSINS CO., Brooklyn, N. Y.
Filed August 20, 1920. Serial No. 136,290. PUBLISHED MARCH 22, 1921.

143,926. LAXATIVE. W. D. CRAIG, Austin, Tex.
Filed October 7, 1920. Serial No. 138,044. PUBLISHED MARCH 1, 1921.

143,927. CERTAIN PIPE FITTINGS AND VALVES. CRANE COMPANY, Chicago, Ill.
Filed October 20, 1920. Serial No. 138,543. PUBLISHED MARCH 1, 1921.

143,928. SALVE USED IN THE TREATMENT OF BRONCHITIS, PNEUMONIA, AND COLDS IN THE HEAD AND CHEST. CREPT CHEMICAL CO., Monroe, N. C.
Filed August 10, 1920. Serial No. 135,961. PUBLISHED MARCH 8, 1921.

143,929. WOMEN'S COLLARS, COLLARS AND CUFFS, STOCKS, STOCKS AND JABOTS, AND VESTEES AND GUIMPES. TIMOTHY F. CROWLEY, New York, N. Y.
Filed May 24, 1920. Serial No. 132,846. PUBLISHED MARCH 15, 1921.

143,930. AUTOMOBILES, AUTOMOBILE-RADIATORS, AUTOMOBILE-RESERVOIRS, AND AUTOMOBILE-HOODS. JEAN BAPTISTE DOMINIQUE LÉON CHARDARD, Paris, France.
Filed June 25, 1920. Serial No. 134,203. PUBLISHED FEBRUARY 22, 1921.

143,931. MEDICINAL COMPOUND DERIVED FROM AN EXTRACT OF ARAROBA. DERMATOLOGICAL RESEARCH LABORATORIES, Philadelphia, Pa.
Filed June 16, 1920. Serial No. 133,771. PUBLISHED MARCH 1, 1921.

143,932. PILE REMEDY. HOWARD E. DILLER, Salina, Kans.
Filed February 7, 1920. Serial No. 128,120½. PUBLISHED MARCH 8, 1921.

143,933. CERTAIN NAMED EMBROIDERIES AND NOTIONS. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,781. PUBLISHED MARCH 8, 1921.

143,934. THREADS, TWISTS, YARNS. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,783. PUBLISHED MARCH 15, 1921.

143,935. CERTAIN NAMED EMBROIDERIES AND NOTIONS. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,786. PUBLISHED MARCH 8, 1921.

143,936. THREADS, TWISTS, YARNS. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,788. PUBLISHED MARCH 15, 1921.

143,937. INDIGESTION REMEDY IN GLOBULE FORM. GUY S. DUNBAR, New York, N. Y.
Filed May 24, 1920. Serial No. 132,854. PUBLISHED MARCH 8, 1921.

143,938. DUST-COLLECTING MACHINERY AND APPARATUS AND SYSTEMS AND PNEUMATIC CONVEYING MACHINERY, APPARATUS, AND SYSTEMS. THE DUST RECOVERING & CONVEYING COMPANY, Cleveland, Ohio.
Filed December 9, 1920. Serial No. 140,828. PUBLISHED MARCH 1, 1921.

143,939. ANTHRACITE AND BITUMINOUS COALS. EAST BROTHERS COAL CO., Chicago, Ill.
Filed October 8, 1919. Serial No. 123,536. PUBLISHED MARCH 29, 1921.

143,940. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER. THE ECONO SHOE MANUFACTURING CO., Houghton, Mich.
Filed September 7, 1920. Serial No. 136,881. PUBLISHED MARCH 29, 1921.

143,941. LEATHER SHOES WITH LEATHER, RUBBER, OR COMPOSITION SOLES AND HEELS. ELLIOT SHOE CO., Brockton, Mass.
Filed November 3, 1920. Serial No. 139,115. PUBLISHED MARCH 29, 1921.

143,942. GRASS AND GARDEN SEEDS. EMERY-SCOTT SEED COMPANY, New Albany, Ind.
Filed September 23, 1920. Serial No. 137,519. PUBLISHED MARCH 15, 1921.

143,943. CLAY FOR POTTERY AND FOR PAPER-MAKERS. ENGLISH CHINA CLAYS SALES CORPORATION, New York, N. Y.
Filed December 29, 1920. Serial No. 141,629. PUBLISHED MARCH 29, 1921.

143,944. COAL. ENTERPRISE COAL COMPANY, Garrett, Pa.
Filed January 26, 1921. Serial No. 142,783. PUBLISHED MARCH 29, 1921.

143,945. THERMOMETERS. C. E. ERICKSON CO. INC., Des Moines, Iowa.
Filed March 16, 1920. Serial No. 129,778. PUBLISHED MARCH 22, 1921.

143,946. FOOT-POWDER. LEON W. ESTILOW, Burlington, N. J.
Filed February 3, 1920. Serial No. 127,906. PUBLISHED MARCH 8, 1921.

143,947. PUBLICATION ISSUED MONTHLY. EXPERIMENTER PUBLISHING CO., New York, N. Y.
Filed June 25, 1920. Serial No. 134,184. PUBLISHED MARCH 8, 1921.

143,948. SHOE-HORNS, BUTTON-HOOKS, GLOVE-STRETCHERS, AND COMBS. THE FIBERLOID CORPORATION, Indian Orchard, Mass.
Filed July 31, 1920. Serial No. 135,641. PUBLISHED MARCH 1, 1921.

143,949. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed December 12, 1920. Serial No. 138,217. PUBLISHED MARCH 15, 1921.

143,950. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,219. PUBLISHED MARCH 15, 1921.

143,951. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,221. PUBLISHED MARCH 15, 1921.

143,952. THRESHING MACHINERY, SAWMILLS, PORTABLE AND STATIONARY STEAM-ENGINES, TRACTION-ENGINES, AND TRACTORS. FRICK COMPANY, Waynesboro, Pa.
Filed November 16, 1920. Serial No. 139,708. PUBLISHED MARCH 1, 1921.

143,953. SHOE-LACES. JOHN FRIER, St. Louis, Mo.
Filed June 18, 1920. Serial No. 133,874. PUBLISHED MARCH 1, 1921.

143,954. TELESCOPIC AND NON-TELESCOPIC STATIONARY HOISTS, AND HEADS, JIBS, AND OTHER PARTS AND ACCESSORIES THEREFOR. GILLIS & GEOGHEGAN, New York, N. Y.
Filed August 3, 1920. Serial No. 135,748. PUBLISHED MARCH 1, 1921.

143,955. WATERPROOFING LIQUID FOR TREATING FABRICS. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,141. PUBLISHED MARCH 8, 1921.

143,956. DRESSES FOR WOMEN. ELIHU GOLDSON, Los Angeles, Calif.
Filed October 27, 1920. Serial No. 138,852. PUBLISHED MARCH 15, 1921.

143,957. THREAD MADE OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,473. PUBLISHED MARCH 15, 1921.

143,958. SPONGE-CLOTH. DOUGLAS N. GRAVES, Waltham, Mass.
Filed December 16, 1919. Serial No. 126,121. PUBLISHED MARCH 22, 1921.

143,959. AIR-VALVES FOR AUTOMOBILE-TIRES, PNEUMATIC CUSHIONS, LIFE-PRESERVERS, AND OTHER SIMILAR PURPOSES. THE GRIFFIN MFG. CO., Boston, Mass.
Filed October 17, 1919. Serial No. 123,887. PUBLISHED MARCH 1, 1921.

143,960. BELT-BUCKLES OTHER THAN OF PRECIOUS METAL. HARRY GROSSMAN, New York, N. Y.
Filed January 6, 1921. Serial No. 141,907. PUBLISHED MARCH 29, 1921.

143,961. LINIMENT ADAPTED FOR EXTERNAL USE FOR RHEUMATISM, SPRAINS, AND BRUISES. BERNAHD DIAMANT, New York, N. Y.
Filed September 22, 1920. Serial No. 137,448. PUBLISHED MARCH 1, 1921.

143,962. HAIR-NETS. ENDERS HUMAN HAIR CO., New York, N. Y.
Filed November 2, 1920. Serial No. 139,078. PUBLISHED MARCH 15, 1921.

143,963. INSECTICIDE FOR USE AGAINST FLIES, ROACHES, BEDBUGS, FLEAS, MOSQUITOS, AND THE LIKE. FLI-NO-MO MANUFACTURING COMPANY, Newport News, Va.
Filed November 10, 1919. Serial No. 124,719. PUBLISHED MARCH 8, 1921.

143,964. ANTISEPTIC CONES FOR FEMALE DEBILITY. JOSEPH S. GAUDYNSKI, Milwaukee, Wis.
Filed October 6, 1920. Serial No. 138,007. PUBLISHED MARCH 1, 1921.

143,965. INCENSE. EVELINA F. GOMI, New York, N. Y.
Filed September 1, 1920. Serial No. 136,701. PUBLISHED MARCH 8, 1921.

143,966. GROUND LIMESTONE. GRANGERS LIME COMPANY, Boston, Mass.
Filed January 12, 1920. Serial No. 127,052. PUBLISHED JANUARY 11, 1921.

143,967. BOYS' CLOTHING—NAMELY, JUVENILE SUITS AND BOYS' SUITS. GREENBLAT & GOLD, New York, N. Y.
Filed June 25, 1920. Serial No. 134,187. PUBLISHED MARCH 29, 1921.

143,968. MONTHLY MAGAZINE. THE GUARDSMAN PUBLISHING AND PRINTING COMPANY, Austin, Tex.
Filed July 30, 1920. Serial No. 135,601. PUBLISHED MARCH 8, 1921.

143,969. SILK, LINEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS-FABRICS CORPORATION, New York, N. Y.
Filed May 6, 1920. Serial No. 132,096. PUBLISHED MARCH 22, 1921.

143,970. CERTAIN MACHINES AND TOOLS. HALL HARDWARE COMPANY, Minneapolis, Minn.
Filed December 2, 1919. Serial No. 125,498. PUBLISHED MARCH 1, 1921.

143,971. GRAVERS, CHISELS, GOUGERS, BURNISHERS, TRACERS, AND FILES. HAMMEL, RIGLANDER & Co., New York, N. Y.
Filed December 7, 1920. Serial No. 140,723. PUBLISHED MARCH 1, 1921.

143,972. MEDICINAL PREPARATION FOR INDIGESTION. WILLIAM L. HARALSON, Fort Payne, Ala.
Filed June 30, 1920. Serial No. 134,418. PUBLISHED MARCH 8, 1921.

143,973. MEDICINAL PREPARATION FOR DIARRHEA, COLIC, CHOLERA MORBUS, CRAMPS, AND PAINS. WILLIAM L. HARALSON, Fort Payne, Ala.
Filed June 30, 1920. Serial No. 134,419. PUBLISHED MARCH 8, 1921.

143,974. METALLIC BUTTON-FASTENERS. HEATON PENINSULAR BUTTON FASTENER COMPANY, Portland, Me., and Boston, Mass.
Filed October 27, 1920. Serial No. 138,858. PUBLISHED MARCH 1, 1921.

143,975. HOSIERY. HEMINWAY & BARTLETT SILK CO., Watertown, Conn.
Filed March 2, 1920. Serial No. 129,144. PUBLISHED MARCH 22, 1921.

143,976. GLAZED KID. HENWOOD & NOWAK, INC., Boston, Mass.
Filed February 12, 1920. Serial No. 128,303. PUBLISHED MARCH 29, 1921.

143,977. GENERAL TONIC. FRANCISCO HERRERA, Habana, Cuba, and New York, N. Y.
Filed August 18, 1920. Serial No. 136,235. PUBLISHED MARCH 1, 1921.

143,978. BELTS FOR SUPPORTING WEARING-APPAREL AND BUCKLES NOT OF PRECIOUS METAL FOR PERSONAL WEAR. HICKOK MANUFACTURING COMPANY, INC., Rochester, N. Y.
Filed October 7, 1920. Serial No. 138,052. PUBLISHED MARCH 15, 1921.

143,979. WELDING COMPOUNDS. HILL-SMITH METAL GOODS COMPANY, Boston, Mass.
Filed September 9, 1920. Serial No. 136,983. PUBLISHED MARCH 8, 1921.

143,980. MEN'S AND BOYS' CLOTHING. THE HILTON COMPANY, INC., Newark, N. J.
Filed November 4, 1920. Serial No. 139,156. PUBLISHED MARCH 29, 1921.

143,981. MEN'S AND BOYS' CLOTHING COMPRISING OVERCOATS, COATS, VESTS, AND TROUSERS. THE HILTON COMPANY, INC., Newark, N. J.
Filed November 4, 1920. Serial No. 139,157. PUBLISHED MARCH 29, 1921.

143,982. WINDOW VENTILATING-SCREENS. OTIS A. HOLLIS, Knoxville, Pa.
Filed December 3, 1920. Serial No. 140,564. PUBLISHED MARCH 1, 1921.

143,983. VEILS AND VEILINGS AND NETTINGS IN THE PIECE. H. JACOB & SONS, INC., New York, N. Y.
Filed November 13, 1920. Serial No. 139,616. PUBLISHED MARCH 29, 1921.

143,984. PREPARATION FOR SHAMPOOING, WASHING, AND PRESERVING THE HEALTH AND COLOR OF THE HAIR. BENJAMIN P. JENNINGS, Chicago, Ill.
Filed March 13, 1920. Serial No. 129,634. PUBLISHED MARCH 1, 1921.

143,985. CERTAIN HARDWARE FOR DRAPERY, FURNITURE, AND UPHOLSTERY. H. L. JUDD COMPANY, New York, N. Y.
Filed October 19, 1920. Serial No. 138,497. PUBLISHED MARCH 1, 1921.

143,986. TRADE PUBLICATION OR ADVERTISING-MAGAZINE PUBLISHED MONTHLY OR AT FREQUENT PERIODS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed December 20, 1920. Serial No. 141,313. PUBLISHED MARCH 29, 1921.

143,987. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed April 17, 1920. Serial No. 131,272. PUBLISHED MARCH 1, 1921.

143,988. SERIES OF COMIC DRAWINGS OR PICTURES. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,502. PUBLISHED MARCH 8, 1921.

143,989. SERIES OF COMIC DRAWINGS OR PICTURES. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,503. PUBLISHED MARCH 8, 1921.

143,990. AIR-FEEDING DEVICES FOR COAL STOVES OR FURNACES. JOHN Y. KING, Lansdowne, Pa.
Filed November 18, 1920. Serial No. 139,805. PUBLISHED MARCH 29, 1921.

143,991. HAIR-POMADE. WILLIAM T. KNIGHT, Jr., Savannah, Ga.
Filed June 24, 1920. Serial No. 134,126. PUBLISHED MARCH 1, 1921.

143,992. NEWSPAPER-SECTION. DAVID LAWRENCE, INC., Washington, D. C.
Filed February 2, 1920. Serial No. 127,862. PUBLISHED MARCH 8, 1921.

143,993. A PERIODICAL PUBLISHED WEEKLY. THE LIVING AGE COMPANY, Boston, Mass.
Filed January 4, 1921. Serial No. 141,840. PUBLISHED MARCH 15, 1921.

143,994. BARK FROM WHICH TANNING SUBSTANCES OR EXTRACTS ARE MADE. HAROLD M. MCARTHUR & Co. LIMITED, Liverpool, England.
Filed July 2, 1920. Serial No. 134,517. PUBLISHED MARCH 29, 1921.

143,995. HAIR-NETS. EDWARD A. MCGINNIS, Pittsburgh, Pa.
Filed October 30, 1920. Serial No. 138,993. PUBLISHED MARCH 15, 1921.

143,996. COATS. MCKIBBIN, DRISCOLL & DORSEY, INC., St. Paul, Minn.
Filed March 5, 1920. Serial No. 129,271. PUBLISHED MARCH 22, 1921.

143,997. MEN'S, YOUTHS', AND BOYS' OUTER CLOTHING. MAKOVER, ROTEN & COMPANY, INC., Baltimore, Md.
Filed September 9, 1920. Serial No. 136,990. PUBLISHED MARCH 29, 1921.

143,998. CRANES. MANNING, MAXWELL & MOORE, INC., New York, N. Y.
Filed July 1, 1920. Serial No. 134,478. PUBLISHED MARCH 8, 1921.

143,999. CLOTH AND HAT DYES. SPIROS C. MARKATOS, New York, N. Y.
Filed May 15, 1919. Serial No. 118,521. PUBLISHED OCTOBER 21, 1919.

144,000. TICKING. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,261. PUBLISHED MARCH 22, 1921.

144,001. BURLAP. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,268. PUBLISHED MARCH 22, 1921.

144,002. COTTON-BATS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,275. PUBLISHED MARCH 15, 1921.

144,003. SHEETS AND PILLOW-CASES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,284. PUBLISHED MARCH 22, 1921.

144,004. SHEETS AND PILLOW-CASES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,285. PUBLISHED MARCH 22, 1921.

144,005. STORY-PAPERS AND PERIODICAL MAGAZINES. PERRY MASON COMPANY, Boston, Mass.
Filed July 13, 1920. Serial No. 134,908. PUBLISHED MARCH 15, 1921.

144,006. BOOKS, CHARTS, SHEET-MUSIC, AND OTHER PUBLICATIONS CONNECTED WITH A SYSTEM FOR TEACHING MUSIC. HUGH ERNEST MILLIKIN, Toronto, Ontario, Canada.
Filed January 5, 1920. Serial No. 126,785. PUBLISHED MARCH 15, 1921.

144,007. BOUTONNIÈRES AND CORSAGE-BOUQUETS. MILLINERY PRODUCTS COMPANY, Chicago, Ill.
Filed November 15, 1920. Serial No. 139,674. PUBLISHED MARCH 1, 1921.

144,008. EMBOSSED GOLD SEALS. MILWAUKEE LABEL & SEAL CO., Milwaukee, Wis.
Filed December 31, 1920. Serial No. 141,729. PUBLISHED MARCH 8, 1921.

144,009. FACE-POWDERS. BLANCHE W. MOE, Chicago, Ill.
Filed April 24, 1920. Serial No. 131,586. PUBLISHED MARCH 8, 1921.

144,010. BUTTONS. MORLEY BUTTON MANUFACTURING COMPANY, Boston, Mass.
Filed November 6, 1920. Serial No. 139,292. PUBLISHED MARCH 1, 1921.

144,011. MONTHLY PUBLICATION. MOTORCRAFT PUBLISHING COMPANY, Oakland, Calif.
Filed January 31, 1921. Serial No. 142,993. PUBLISHED MARCH 8, 1921.

144,012. FLOWER-BULBS AND VEGETABLE, FARM, AND FLOWER SEEDS. MULLER-SEALEY COMPANY, INC., New York, N. Y.
Filed June 3, 1920. Serial No. 133,224. PUBLISHED MARCH 15, 1921.

144,013. CERTAIN NAMED CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. H. K. MULFORD CO., Philadelphia, Pa.
Filed July 2, 1920. Serial No. 134,515. PUBLISHED MARCH 8, 1921.

144,014. CHILDREN'S ROMPERS. ETHEL F. MURRAY, Springfield, Mass.
Filed November 10, 1920. Serial No. 139,468. PUBLISHED MARCH 15, 1921.

144,015. NAME OF A MONTHLY JOURNAL BEING ISSUED BY THE SAID SOCIETY. THE MUTUAL HOMES SOCIETY, Washington, D. C.
Filed December 10, 1919. Serial No. 125,790. PUBLISHED MARCH 15, 1921.

144,016. CERTAIN ARTICLES OF CLOTHING. HAM MYERS & Co., New York, N. Y.
Filed November 5, 1920. Serial No. 139,216. PUBLISHED MARCH 22, 1921.

144,017. FILES AND RASPS. NICHOLSON FILE COMPANY, Providence, R. I.
Filed February 12, 1920. Serial No. 128,313. PUBLISHED MARCH 1, 1921.

144,018. COTTON PIECE GOODS. O'CONNELL-SIMMONS CO. INC., New York, N. Y.
Filed November 19, 1920. Serial No. 139,867. PUBLISHED MARCH 15, 1921.

144,019. ALUMINIUM-SOLDER. HARRY ORMISTON ORMISTON, London, England.
Filed November 2, 1920. Serial No. 139,088. PUBLISHED MARCH 1, 1921.

144,020. CLOTH-HANGERS, GARMENT-STRETCHERS, GARMENT-SUPPORTS, TROUSERS-HOLDERS, TROUSERS-HANGERS, GARMENT-BOWS, CLAMPING DEVICES FOR HANGING TROUSERS. ROBERT OTTO, Berlin, Germany.
Filed May 19, 1920. Serial No. 132,656. PUBLISHED MARCH 29, 1921.

144,021. LADIES' COATS, SUITS, AND SKIRTS. H. & I. OTTENSTEIN, New York, N. Y.
Filed October 30, 1920. Serial No. 138,996. PUBLISHED MARCH 22, 1921.

144,022. PREPARATION FOR USE IN TREATING COUGHS, COLDS, BRONCHITIS, PNEUMONIA, AND ALL PULMONARY AFFECTIONS. JOSEPH PAKOS, Muscatine, Iowa.
Filed February 7, 1921. Serial No. 143,291. PUBLISHED MARCH 22, 1921.

144,023. CERTAIN NAMED FLOOR-COVERING. THE PARAFFINE COMPANIES, INC., San Francisco, Calif.
Filed September 2, 1919. Serial No. 122,229. PUBLISHED NOVEMBER 16, 1920.

144,024. CERTAIN ARTICLES OF CLOTHING. J. C. PENNEY COMPANY, Salt Lake City, Utah.
Filed October 15, 1920. Serial No. 138,337. PUBLISHED MARCH 15, 1921.

144,025. DAILY TRADE PUBLICATION. THE PENTON PUBLISHING COMPANY, Cleveland, Ohio.
Filed November 5, 1920. Serial No. 139,220. PUBLISHED MARCH 8, 1921.

144,026. PARASOLS AND UMBRELLAS. POLAN, KATZ & Co., Baltimore, Md.
Filed November 26, 1920. Serial No. 140,206. PUBLISHED MARCH 29, 1921.

144,027. MOTION-PICTURE CAMERAS, COMBINED MOTION-PICTURE CAMERAS AND PROJECTORS, AND MOTION-PICTURE-PROJECTING MACHINES. ELMER PONTIN, Long Island City, N. Y.
Filed March 23, 1920. Serial No. 130,106. PUBLISHED MARCH 1, 1921.

144,028. FLUID-PRESSURE GAGES. PRECISION INSTRUMENT COMPANY, Newark, N. J.
Filed August 10, 1920. Serial No. 135,975. PUBLISHED MARCH 1, 1921.

144,029. FLUID-PRESSURE GAGES. PRECISION INSTRUMENT COMPANY, Newark, N. J.
Filed August 10, 1920. Serial No. 135,976. PUBLISHED MARCH 1, 1921.

144,030. FLUID-PRESSURE GAGES. PRECISION INSTRUMENT COMPANY, Newark, N. J.
Filed August 10, 1920. Serial No. 135,977. PUBLISHED MARCH 1, 1921.

144,031. FLUID-PRESSURE GAGES. PRECISION INSTRUMENT COMPANY, Newark, N. J.
Filed August 10, 1920. Serial No. 135,978. PUBLISHED MARCH 1, 1921.

144,032. CERTAIN NAMED FURNITURE-COVERS, TABLE-SCARFS, HANDKERCHIEFS, &c. THE PRISCILLA COMPANY, Boston, Mass.
Filed August 21, 1919. Serial No. 121,873. PUBLISHED MARCH 29, 1921.

144,033. TOILET PREPARATION TO PREVENT EXCESSIVE PERSPIRATION. ELIZABETH D. LENNOX, Los Angeles, Calif.
Filed September 7, 1920. Serial No. 136,899. PUBLISHED MARCH 22, 1921.

144,034. VETERINARY MEDICINES FOR LAMENESS, TUMEFACTIONS, EXOSTOSIS, AND SIMILAR DISEASES. JAY HOMER LUFF, Hudson, N. Y.
Filed July 19, 1920. Serial No. 135,154. PUBLISHED MARCH 8, 1921.

144,035. MOLDING MATERIAL—NAMELY, PARTING-SAND FOR FOUNDRY USE IN MOLDING. NATIONAL MINERAL PRODUCTS CO., Chicago, Ill.
Filed December 20, 1920. Serial No. 141,325. PUBLISHED MARCH 15, 1921.

144,036. WARM-AIR FURNACES. (PIPE AND PIPELESS.) MT. VERNON FURNACE & MFG. CO., Mount Vernon, Ill.
Filed January 4, 1921. Serial No. 141,841. PUBLISHED MARCH 22, 1921.

144,037. ARTIFICIAL FLOWERS. R. J. MUNN & BROS., Boston, Mass.
Filed April 29, 1920. Serial No. 131,814. PUBLISHED MARCH 15, 1921.

144,038. SOLDERING AND TINNING FLUX. FRED H. PERFECT, Columbus, Ohio.
Filed September 7, 1920. Serial No. 136,914. PUBLISHED MARCH 8, 1921.

144,039. SNAP-FASTENERS FOR GLOVES, CAPS, TRUNKS, SUSPENDERS, POCKETBOOKS, BAGS, GARMENTS, AND AUTOMOBILE ACCESSORIES. RAU FASTENER CO., New York, N. Y.
Filed November 27, 1920. Serial No. 140,348. PUBLISHED MARCH 1, 1921.

144,040. CERTAIN ARTICLES OF CLOTHING. WILLIAM H. REDWINE, Pittsburgh, Pa.
Filed November 10, 1920. Serial No. 139,474. PUBLISHED MARCH 15, 1921.

144,041. HOUSE ORGAN PUBLISHED AT INTERVALS. THE REFINITE COMPANY, Omaha, Nebr.
Filed November 22, 1920. Serial No. 139,988. PUBLISHED MARCH 8, 1921.

144,042. HAIR-NETS. REICHMAN & FAUST, New York, N. Y.
Filed November 13, 1920. Serial No. 139,629. PUBLISHED MARCH 15, 1921.

144,043. A MONTHLY PERIODICAL. THE H. O. RENO COMPANY, Chicago, Ill.
Filed December 16, 1920. Serial No. 141,192. PUBLISHED MARCH 15, 1921.

144,044. CARBON-REMOVERS IN THE NATURE OF CHEMICAL PREPARATIONS. RETLAW CHEMICAL CO., INC., New York, N. Y.
Filed August 14, 1920. Serial No. 136,128. PUBLISHED MARCH 8, 1921.

144,045. COTTON YARNS. RIDGE MILLS INC., Gastonia, N. C.
Filed January 15, 1920. Serial No. 127,184. PUBLISHED MARCH 15, 1921.

144,046. A HAIR-DRESSING OF THE PETROLEUM-JELLY TYPE. BUNYAN ROBINS, Richmond, Va.
Filed September 2, 1920. Serial No. 136,763. PUBLISHED MARCH 8, 1921.

144,047. COTTON-WARP AND WOOL DRESS PIECE GOODS. W. W. RYCROFT & CO., New York, N. Y.
Filed October 20, 1920. Serial No. 138,596. PUBLISHED MARCH 15, 1921.

144,048. ELASTIC WEBBINGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed August 14, 1920. Serial No. 136,130. PUBLISHED DECEMBER 7, 1920.

144,049. TOOTH-PASTE. SAENGER BROTHERS, Shreveport, La.
Filed January 31, 1920. Serial No. 127,838. PUBLISHED MARCH 8, 1921.

144,050. SATIN IN THE PIECE. SALEMBIER & CLAY, INC., New York, N. Y.
Filed August 13, 1920. Serial No. 136,093. PUBLISHED MARCH 29, 1921.

144,051. GAS, COAL, AND WOOD HEATING AND COOKING STOVES. SEARS, ROEBUCK & COMPANY, Chicago, Ill.
Filed July 8, 1920. Serial No. 134,730. PUBLISHED MARCH 15, 1921.

144,052. COTTON BATISTE IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 10, 1920. Serial No. 139,482. PUBLISHED MARCH 15, 1921.

144,053. LIQUID MEDICINAL ANTISEPTIC FOR HYPODERMIC MEDICATION. SHARP & DOHME, Baltimore, Md.
Filed November 26, 1920. Serial No. 140,216. PUBLISHED MARCH 1, 1921.

144,054. BOOTS, SHOES, LOGGERS' BOOTS, CRUISERS' BOOTS, AND PACS, AND CALK-LOCKS FOR BOOTS AND SHOES. C. W. SHOE MANUFACTURING COMPANY, Portland, Oreg.
Filed October 18, 1920. Serial No. 138,427. PUBLISHED MARCH 22, 1921.

144,055. CERTAIN ARTICLES OF CLOTHING. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed April 26, 1920. Serial No. 131,632. PUBLISHED MARCH 15, 1921.

144,056. SILK PIECE GOODS. R. & H. SIMON CO., Union, N. J.
Filed November 23, 1920. Serial No. 140,074. PUBLISHED MARCH 22, 1921.

144,057. BOX-OPENERS, GLASS-CUTTERS, NAIL-PULLERS, AND NAIL-PULLER COMBINATION-TOOLS. SMITH & HEMENWAY COMPANY, INC., New York, N. Y., and Irvington, N. J.
Filed December 1, 1920. Serial No. 140,506.

144,058. BOX-OPENERS, GLASS-CUTTERS, NAIL-PULLERS, AND NAIL-PULLER COMBINATION-TOOLS. SMITH & HEMENWAY COMPANY, INC., New York, N. Y., and Irvington, N. J.
Filed December 1, 1920. Serial No. 140,507. PUBLISHED MARCH 1, 1921.

144,059. FANS FOR PERSONAL USE. SOCIETE INDUSTRIELLE DE CELLULOID, Paris, France.
Filed November 20, 1920. Serial No. 139,914. PUBLISHED MARCH 1, 1921.

144,060. HOSIERY. SOUTHERN EXPORT CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,397. PUBLISHED MARCH 15, 1921.

144,061. FOLDING-MACHINES, WRAPPING-MACHINES, ADDRESSING-MACHINES, MAILING-MACHINES, AND DEVICES ASSOCIATED THEREWITH. THE SPEEDAUMATIC COMPANY, Chicago, Ill.
Filed September 17, 1920. Serial No. 137,294. PUBLISHED MARCH 1, 1921.

144,062. WEEKLY PERIODICALS. THE STARCHROOM PUBLISHING COMPANY, Cincinnati, Ohio.
Filed January 11, 1921. Serial No. 142,102. PUBLISHED MARCH 8, 1921.

144,063. RAT AND ROACH PASTE. STEARNS' ELECTRIC PASTE CO., Chicago, Ill.
Filed October 7, 1920. Serial No. 138,066. PUBLISHED MARCH 22, 1921.

144,064. OILED CLOTH. STEPHENS & WILKES, INC., New York, N. Y.
Filed November 8, 1920. Serial No. 139,376. PUBLISHED MARCH 15, 1921.

144,065. CERTAIN ARTICLES OF CLOTHING. ABRAM F. STERNE, Wilkes-Barre, Pa.
Filed February 16, 1920. Serial No. 128,475. PUBLISHED MARCH 22, 1921.

144,066. CERTAIN ARTICLES OF HARDWARE. HERBERT TERRY & SONS, LIMITED, Redditch, England.
Filed March 31, 1917. Serial No. 102,635. PUBLISHED MARCH 1, 1921.

144,067. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS. LEO TETER, Chicago, Ill.
Filed August 11, 1920. Serial No. 136,007. PUBLISHED MARCH 22, 1921.

144,068. CERTAIN NAMED TEXTILE PIECE GOODS, BEDSPREADS, TABLE-CLOTHS, SHEETS, DRAPERIES, &c. TEXTILE MANUFACTURERS ALLIANCE, INC., New York, N. Y.
Filed June 25, 1920. Serial No. 134,224. PUBLISHED MARCH 15, 1921.

144,069. COTTON PIECE GOODS. TEXTILE SERVICE CO. INC., New York, N. Y.
Filed October 7, 1920. Serial No. 138,071. PUBLISHED MARCH 29, 1921.

144,070. WEEKLY PERIODICAL. THE THOROUGHBRED RECORD COMPANY, INC., Lexington, Ky.
Filed January 28, 1921. Serial No. 142,912. PUBLISHED MARCH 8, 1921.

144,071. BOOKS, MAGAZINES, PAMPHLETS, CALENDARS, AND LIKE PRINTED MATTER. EDMOND A. TOWNLEY, New York, N. Y.
Filed December 10, 1919. Serial No. 125,811. PUBLISHED MARCH 15, 1921.

144,072. MEDICINAL TONIC FOR BUILDING UP RUN-DOWN SYSTEMS, RELIEVING CONSTIPATION, AND AIDING DIGESTION. JOSEPH C. TRAINER, Philadelphia, Pa.
Filed September 17, 1920. Serial No. 137,295. PUBLISHED MARCH 8, 1921.

144,073. THREAD AND YARN. TÜRK GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hamburg, Germany.
Filed January 5, 1920. Serial No. 126,831. PUBLISHED MARCH 15, 1921.

144,074. TRAFFIC-SIGNALS FOR VEHICLES. TURN-O-STOP MANUFACTURING CORPORATION, New York, N.Y.
Filed November 1, 1920. Serial No. 139,062. PUBLISHED MARCH 1, 1921.

144,075. COMBS, PINCUSHIONS, AND SHOE-HORNS. TUSKELOID COMPANY, INC., New York, N. Y.
Filed December 6, 1920. Serial No. 140,690. PUBLISHED MARCH 15, 1921.

144,076. CERTAIN-NAMED EMBROIDERIES AND NOTIONS. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,813. PUBLISHED MARCH 29, 1921.

144,077. CHEMICAL PREPARATION FOR USE AS A FUEL-INTENSIFIER AND CARBON-REMOVER. ULTRA-GAS MANUFACTURING COMPANY, Richmond, Ind.
Filed September 20, 1920. Serial No. 137,397. PUBLISHED MARCH 8, 1921.

144,078. LADIES' AND CHILDREN'S HATS. VAIL HAT CO. INC., New York, N. Y.
Filed December 7, 1920. Serial No. 140,763. PUBLISHED MARCH 29, 1921.

144,079. WRENCHES. VICTOR MANUFACTURING COMPANY, Dayton, Ohio.
Filed November 29, 1920. Serial No. 140,414. PUBLISHED MARCH 1, 1921.

144,080. A WEEKLY INSURANCE PUBLICATION. GEORGE W. WADSWORTH, Chicago, Ill.
Filed August 27, 1920. Serial No. 136,548. PUBLISHED MARCH 15, 1921.

144,081. DISH-WASHING MACHINES. WALKER BROTHERS COMPANY, Syracuse, N. Y.
Filed July 16, 1920. Serial No. 135,086. PUBLISHED MARCH 1, 1921.

144,082. A HOUSE ORGAN PUBLISHED MONTHLY. J. MURRAY WALKER, Boston, Mass.
Filed January 22, 1921. Serial No. 142,683. PUBLISHED MARCH 8, 1921.

144,083. FABRICS IN THE PIECE OF SILK AND SILK MIXTURES. WECHSLER BARBER SILK CO. INC., New York, N. Y.
Filed September 4, 1920. Serial No. 136,866. PUBLISHED MARCH 15, 1921.

144,084. FABRICS IN THE PIECE OF SILK AND SILK MIXTURES. WECHSLER BARBER SILK CO. INC., New York, N. Y.
Filed September 4, 1920. Serial No. 136,867. PUBLISHED MARCH 15, 1921.

144,085. GENERAL TONIC. JAS. A. WELCH, Buffalo, N. Y.
Filed August 9, 1920. Serial No. 135,957. PUBLISHED MARCH 1, 1921.

144,086. DENATURED ALCOHOLS, POTASH SALTS, SODA SALTS, BARIUM SALTS, AND CHROME SALTS. WESTERN INDUSTRIES CO., San Francisco, Calif.
Filed July 12, 1920. Serial No. 134,868. PUBLISHED MARCH 8, 1921.

144,087. TOILET WATERS, PERFUMES AND EXTRACTS, COLD-CREAM, FACIAL CREAM, TALCUM POWDER, COLOGNE. R. H. WHITE COMPANY, Boston, Mass.
Filed September 20, 1920. Serial No. 137,400. PUBLISHED MARCH 8, 1921.

144,088. TONICS AND DRESSINGS FOR THE TREATMENT OF THE HAIR AND SCALP. ANNIE J. WILLS, Birmingham, Ala.
Filed October 6, 1920. Serial No. 138,033. PUBLISHED MARCH 1, 1921.

144,089. RAZORS, SCISSORS, AND HAIR-CLIPPERS. ALEXIS WITTE CUTLERY CO., New York and Brooklyn, N. Y.
Filed March 27, 1920. Serial No. 130,308. PUBLISHED MARCH 1, 1921.

144,090. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed November 15, 1920. Serial No. 139,697. PUBLISHED MARCH 15, 1921.

144,091. SILKOLINE, SCRIM, CRETONNE, VOILE, VELOUR, BURLAP, TAPESTRY, LACE CURTAINS, &c. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed January 20, 1920. Serial No. 127,412. PUBLISHED MARCH 29, 1921.

144,092. FACE-POWDER. Dr. JOSEPH JOHN ZAMBORSKY, Greensburg, Pa.
Filed June 16, 1919. Serial No. 119,692. PUBLISHED MARCH 1, 1921.

144,155. DYES AND DYEING COMPOSITIONS. CARPENTER-MORTON COMPANY, Boston, Mass.
Filed January 10, 1921. Serial No. 142,006. PUBLISHED MARCH 22, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 21, 1921.

144,093. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ALLEN, MCNERNEY AND COMPANY, Attleboro, Mass. Filed Apr. 22, 1921. Serial No. 146,512.

CLINGTOOTH

Particular description of goods.—Combs.
Claims use since Dec. 24, 1901.

144,094. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Dec. 15, 1920. Serial No. 141,092.



Particular description of goods.—Spectacles, Eyeglasses, Ophthalmic Mountings, Lenses, and Component Parts of Such Mountings, Trial-Frames, Face-Measures, Goggles, Eye-Protectors, Lens-Measures, and Lens-Testing Instruments.
Claims use since about Oct. 1, 1919.

144,095. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SAW AND MANUFACTURING COMPANY, Springfield, Mass. Filed Aug. 2, 1919. Serial No. 121,194.

LENOX

Particular description of goods.—Saws.
Claims use since on or about Apr. 30, 1915.

144,096. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio. Filed Mar. 31, 1921. Serial No. 145,489.

AMERICAN

Particular description of goods.—Woven-Wire Fencing.
Claims use since July 1, 1898.

144,097. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE V. D. ANDERSON COMPANY, Cleveland, Ohio. Filed Nov. 19, 1920. Serial No. 139,839.

EXPELLER

Particular description of goods.—Presses for Removing Oils and Liquids.
Claims use since March, 1900.

144,098. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BARNSTEAD STILL AND STERILIZER CO., Boston, Mass. Filed Dec. 28, 1920. Serial No. 141,549.

BARNSTEAD

Particular description of goods.—Water-Stills.
Claims use since Sept. 30, 1916.

144,099. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BAUSH MACHINE TOOL COMPANY, Springfield, Mass. Filed Dec. 31, 1920. Serial No. 141,714.

BOCORSELSKI

Particular description of goods.—Universal Joints.
Claims use since Dec. 1, 1908.

144,100. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BOCK BEARING COMPANY, Toledo, Ohio. Filed Feb. 11, 1921. Serial No. 143,423.

BOCK

Particular description of goods.—Roller-Bearings.
Claims use since Feb. 28, 1914.

144,101. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. S. BOYLE, Cincinnati, Ohio. Filed Oct. 19, 1920. Serial No. 138,469.

Old English

Particular description of goods.—Floor-Polish.
Claims use since 1896.

144,102. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BUFFALO GASOLENE MOTOR COMPANY, Buffalo, N. Y. Filed Nov. 29, 1920. Serial No. 140,372.

Buffalo

Particular description of goods.—Internal-Combustion Engines for Marine Service, for Use with Tractors, Excavators, and Fire Apparatus, and for General Industrial Purposes, Including Parts of Such Engines.
Claims use since 1898.

144,103. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,934.

COVENTRY

Particular description of goods.—Book-Paper.
Claims use since 1908.

144,104. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,956.

BUTLER·BRANDS PAPER THE BEST

Particular description of goods.—Writing-Paper, Typewriting-Paper, Wrapping-Paper, Paper for Poster and Label Work, Book-Paper, Cover-Paper, Bristol-Board, Lithograph-Paper, and Ledger-Paper.
Claims use since 1902.

144,105. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. CHENEY & SON, Manlius, N. Y. Filed Feb. 23, 1921. Serial No. 143,915.

FOWLER

Particular description of goods.—Mower-Knife and Tool Sharpeners.
Claims use since 1901.

144,106. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND TWIST DRILL CO., Cleveland, Ohio. Filed Dec. 30, 1920. Serial No. 141,667.

"PEERLESS"

Particular description of goods.—Reamers of All Kinds.
Claims use since Jan. 1, 1908.

144,107. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND TWIST DRILL CO., Cleveland, Ohio. Filed Dec. 30, 1920. Serial No. 141,668.

EZY-OUT

Particular description of goods.—Screw-Extractors.
Claims use since Oct. 15, 1916.

144,108. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLIP BAR MANUFACTURING CO., Philadelphia, Pa. Filed Nov. 1, 1919. Serial No. 124,435.

SHUSTER SPEED WRENCH

Particular description of goods.—Ratchet-Wrenches.
Claims use since March, 1919.

144,109. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CORONA TYPEWRITER CO., INC., Groton, N. Y. Filed May 7, 1920. Serial No. 132,137.

The Personal Writing Machine

Particular description of goods.—Typewriting-Machines.
Claims use since Aug. 14, 1916.

144,110. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUGUST DAGES, Philadelphia, Pa. Filed Mar. 10, 1921. Serial No. 144,562.

PERFECTION AD

Particular description of goods.—Mayonnaise.
Claims use since Jan. 1, 1920.

144,111. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Mar. 31, 1921. Serial No. 145,503.

VEA NO-BURN-OUT VEA HEATING ELEMENT

Particular description of goods.—Electric Sadirons.
Claims use since November, 1915.

144,112. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. DUNCAN COMPANY, Everett, Mass. Filed Feb. 10, 1921. Serial No. 143,385.

DUNCAN

Particular description of goods.—Overhead Tramway-Switches.
Claims use since at least 1900.

144,113. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DYER COMPANY, Cambridge, Mass. Filed Nov. 16, 1920. Serial No. 139,707.

DYER

Particular description of goods.—Pistons.
Claims use since on or about May 1, 1919.

144,114. (CLASS 37. PAPER AND STATIONERY.) EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed Feb. 1, 1921. Serial No. 143,045.

EATON'S HIGHLAND LINEN

Particular description of goods.—Papeteries, Writing-Tablets, Correspondence-Cards, Mailing-Envelops, and Writing-Paper Comprising Ream and Pound Goods.
Claims use since January, 1901.

144,115. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EDSON MANUFACTURING CO., Boston, Mass. Filed Dec. 16, 1920. Serial No. 141,163.

EDSON

Particular description of goods.—Liquid-Pumps and Liquid-Pumping Apparatus.
Claims use since about 1878.

144,116. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM L. EVANS, Jr., Washington, Ind. Filed Feb. 12, 1921. Serial No. 143,490.

VANISHING DOOR

Particular description of goods.—Hinges for Doors, Sashes, &c.
Claims use since 1917.

144,117. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FAULTLESS CASTER CO., Evansville, Ind. Filed Jan. 28, 1921. Serial No. 142,879.

Faultless

Particular description of goods.—Casters for Furniture and the Like.
Claims use since Jan. 1, 1896.

144,118. (CLASS 38. PRINTS AND PUBLICATIONS.) SAMUEL GABRIEL SONS & COMPANY, New York, N. Y. Filed Mar. 20, 1919. Serial No. 116,743.

LINENETTE

Particular description of goods.—Toy Picture-Books of Paper.
Claims use since Jan. 1, 1919.

144,119. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORTON CHOCOLATE COMPANY, INC., Corning, N. Y. Filed Mar. 7, 1921. Serial No. 144,390.

CEYLONS

Particular description of goods.—Candies.
Claims use since Oct. 1, 1918.

144,120. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE HAMPDEN WATCH COMPANY, Canton, Ohio. Filed Mar. 26, 1918. Serial No. 109,806.

CHATHAM

Particular description of goods.—Watches and Watch-Movements.
Claims use since Mar. 4, 1918.

144,121. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HILL, CLARKE & CO. OF CHICAGO, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 130,532.

Re MANUFACTURED MACHINE TOOLS

Particular description of goods.—Metal-Working Machinery and Tools Consisting of Automatic Machines, Bending-Machines, Bolt and Nut Machinery, Boring-Machines, Drilling-Machines, Broaching-Machines, Buffing-Machines, Centering-Machines, Chucking-Machines, Forging-Machines, Gear-Cutting Machines, Power-Hammers, Hobbing-Machines, Hydraulic Machines, Lathes, Key-Seaters, Milling-Machines, Planers, Shapers, Pressing and Forming Machines, Rolling-Machines, Screw-Machines; Shearing, Punching, and Stamping Machines; Slotters, Tapping-Machines, Threading-Machines, Turret-Machines, and Welding-Machines, and Parts of Said Machines and Tools.
Claims use since April, 1916.

144,122. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HOYT METAL COMPANY, St. Louis, Mo. Filed Nov. 4, 1920. Serial No. 139,159.

GENUINE-A

Particular description of goods.—Babbitt Metal.
Claims use since about Aug. 24, 1910.

144,123. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HOYT METAL COMPANY, St. Louis, Mo. Filed Nov. 4, 1920. Serial No. 139,161.

GAS ENGINE

Particular description of goods.—Babbitt Metal.
Claims use since about Nov. 12, 1908.

144,124. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JEFFERSON UNION COMPANY, Lexington, Mass. Filed Mar. 26, 1921. Serial No. 145,270.

JEFFERSON

Particular description of goods.—Pipe Joints or Couplings Made of Iron, Steel, Brass, or other Metals, Used to Connect Lengths of Metallic Pipe.
Claims use since Aug. 13, 1901.

144,125. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JEFFERSON UNION COMPANY, Lexington, Mass. Filed Mar. 26, 1921. Serial No. 145,271.

GIRARD

Particular description of goods.—Pipe Joints and Couplings Made of Iron, Steel, Brass, or other Metals, Used to Connect Lengths of Metallic Pipe.
Claims use since June 9, 1916.

144,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Mar. 18, 1921. Serial No. 144,933.



BLUE DUTCH

Particular description of goods.—Chocolates and Candies.
Claims use since 1908.

144,127. (CLASS 39. CLOTHING.) LE ROY SHIRT CO., New York, N. Y. Filed Nov. 5, 1920. Serial No. 139,212.

LeRoy

Particular description of goods.—Men's Dress-Shirts.
Claims use since 1909.

144,128. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Mar. 18, 1921. Serial No. 144,934.



Particular description of goods.—Chocolates and Candies.
Claims use since 1908.

144,129. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MCNAB COMPANY, Bridgeport, Conn. Filed Apr. 15, 1921. Serial No. 146,227.

The McNab

Particular description of goods.—Direction and Revolution Indicators, Revolution-Counters, Draft-Gages, Salt-Detectors, and Frigometers.
Claims use since Jan. 1; 1910.

144,130. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,263.

NEWPOCKET

Particular description of goods.—Piece Goods—Namely, Drill.
Claims use since Dec. 16, 1917.

144,131. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,315.

SCHILLER

Particular description of goods.—Bedspreads.
Claims use since the year 1901.

144,132. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MEACHEM GEAR CORPORATION, Syracuse, N. Y. Filed Feb. 23, 1921. Serial No. 143,938.

MEACHEM

Particular description of goods.—Cut-Metal Gears, Rawhide Gears and Pinions, and Rawhide Gear and Pinion Blanks.
Claims use since Feb. 21, 1919.

144,133. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MEILICKE CALCULATOR COMPANY, Portland, Me., and Chicago, Ill. Filed Jan. 13, 1921. Serial No. 142,227.

Meilicke

Particular description of goods.—Pay-Roll Calculators Having Hinged Cards.
Claims use since Apr. 30, 1913.

144,134. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MILLER PASTEURIZING MACHINE COMPANY, (now by change of name The H. H. Miller Industries Company,) Canton, Ohio. Filed Dec. 29, 1920. Serial No. 141,643.

TYSON

Particular description of goods.—Dairy Machinery Consisting of Milk-Treating Vats, Pasteurizers, Mixing Apparatus, Milk-Heating Apparatus, Milk, Cream, and Brine Pumps, and Parts of Said Machinery.
Claims use since in or about 1905.

144,135. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MILLER PASTEURIZING MACHINE COMPANY, (now by change of name The H. H. Miller Industries Company,) Canton, Ohio. Filed Dec. 29, 1920. Serial No. 141,644.

Miller

Particular description of goods.—Dairy Machinery Consisting of Milk-Treating Vats, Pasteurizers, Mixing Apparatus, Milk-Heating Apparatus, Milk, Cream, and Brine Pumps, and Parts of Said Machinery.
Claims use since in or about 1900.

144,136. (CLASS 39. CLOTHING.) THE M & M COMPANY, Scranton, Pa. Filed Jan. 14, 1918. Serial No. 108,457.

Tweed-O-Wool

The drawing shows the trade-mark in fanciful type and arrangement, the lines along the edges of the letters being shade-lines intended to characterize the letters.
Particular description of goods.—Coats, Trousers, Vests, Overcoats, Outer Skirts, and Suits for Men, Women, and Children.
Claims use since about Oct. 1, 1917.

144,137. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE NEW JERSEY ZINC COMPANY, Newark and Franklin borough, N. J. Filed Dec. 11, 1920. Serial No. 140,956.

STERLING

Particular description of goods.—Slab-Zinc.
Claims use since Jan. 23, 1895.

144,138. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE OHIO BRASS CO., Mansfield, Ohio. Filed Mar. 31, 1921. Serial No. 145,525.

MANSFIELD

Particular description of goods.—Ears, Clamps, and Hangers for Suspending Trolley-Wires and other Electrical Conductors.
Claims use since May 1, 1919.

144,139. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OIL WELL SUPPLY COMPANY, Pittsburgh, Pa. Filed June 23, 1920. Serial No. 134,086.

"OILWELL"

Particular description of goods.—Oil-Well Rigs, Oil-Well Derricks, Rig Parts, Derrick Parts, Portable Drilling-Machines, Portable Well-Pulling Machines, Drive-Well and Test-Boring Machines, Core-Drills, Outfits for Sinking Wells of Large Diameter Through Soft Formations, Rig-Irons, Steel Crown-Blocks, Sand-Reels, Steam-Engines, Gas-Engines; Boiler and Engine Fittings—Namely, Tube-Expanders, Flue-Cleaners, Steam-Whistles, Inspirators, and Injectors; Steam-Pumps, Rotary Pumps, Jet-Pumps, Slush-Pumps, Force-Pumps, Ejectors, Pitcher-Spout Pumps, Hydraulic Rams, Drilling and Fishing Tools for Cable Systems, Rotary Well-Drilling Tools; Well Equipment—Namely, Elevators, Anchor-Clamps, and Casing-Heads; Oil-Well Packers, Pumping Machinery and Equipment; Oil-Well-Pipe Tools—Namely, Pipe-Benders, Pipe-Cutters, Pipe-Threading Machines, Stocks and Dies, Tongs, Wrenches, Pipe-Drills, and Pipe-Tapping Machines; Oil-Well Blacksmith-Tools, and Pulley-Blocks.
Claims use since about 1900.

144,140. (CLASS 39. CLOTHING.) O'SULLIVAN RUBBER COMPANY, INC., New York, N. Y. Filed May 29, 1920. Serial No. 133,101.

O'SULLIVAN'S

Particular description of goods.—Rubber Soles and Rubber Heels for Boots and Shoes.
Claims use since 1899.

144,141. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER CAILLER KOHLER SWISS CHOCOLATES CO., INC., New York, N. Y. Filed Mar. 2, 1921. Serial No. 144,234.



Particular description of goods.—Milk-Chocolate and Cocoa.
Claims use since 1900.

144,142. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE P-R ENGINE COMPANY, Baltimore, Md., and New York, N. Y. Filed Feb. 12, 1921. Serial No. 143,514.

PRICE

Particular description of goods.—Oil-Engines.
Claims use since Jan. 20, 1919.

144,143. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SAFETY FIRE EXTINGUISHER CO., New York, N. Y. Filed Nov. 13, 1919. Serial No. 124,871.

SAFETY

Particular description of goods.—Mechanical Fire-Extinguishers.
Claims use since April, 1910.

144,144. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SIBSON & STERN, INC., Philadelphia, Pa. Filed Mar. 29, 1920. Serial No. 130,351.

"NU-BRAID"

Particular description of goods.—Braid.
Claims use since Mar. 1, 1920.

144,145. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. D. SMITH & COMPANY, Plantsville, Conn. Filed Dec. 13, 1920. Serial No. 141,040.

"PERFECT HANDLE"

Particular description of goods.—Screwdrivers, Machinists' Screwdrivers, Triple-Lever Screwdrivers, Three-Bit Screwdrivers, Fixed-Opening Wrenches, Adjustable Straight-Handle Wrenches, Adjustable S-Wrenches, Monkey-Wrenches, Pipe-Wrenches, Hammers, Tire-Tools or Pry-Bars, Tack-Pullers, Hatchets, Drawing-Knives, and Valve-Spring Lifters.
Claims use since January, 1905.

144,146. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. D. SMITH & COMPANY, Plantsville, Conn. Filed Dec. 13, 1920. Serial No. 141,043.

ENCHASED JOINT

Particular description of goods.—Pliers.
Claims use since April, 1915.

144,147. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANDARD SHORTWRITER SALES COMPANY, Chicago, Ill. Filed Mar. 22, 1920. Serial No. 130,072.

Shortwriter

Particular description of goods.—Typewriting-Machines.
Claims use since Oct. 18, 1915.

144,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWEET CANDY CO., Salt Lake City, Utah. Filed Mar. 9, 1921. Serial No. 144,545.

Brilliant Gloss

Particular description of goods.—Candy.
Claims use since Jan. 2, 1920.

144,149. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TIMKEN ROLLER BEARING COMPANY, Canton, Ohio. Filed Dec. 27, 1920. Serial No. 141,541.

TIMKEN

Particular description of goods.—Roller-Bearings and Parts Thereof.
Claims use since 1899.

144,150. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNIVERSAL TIDE POWER COMPANY, Boston, Mass. Filed Feb. 5, 1921. Serial No. 143,228.

HYDRAULIC AIR MOTOR

Particular description of goods.—Motors Actuated by the Power of the Tide.
Claims use since Sept. 1, 1918.

144,151. (CLASS 37. PAPER AND STATIONERY.) FRED. WEBSTER PAPER COMPANY, Holyoke, Mass. Filed Mar. 7, 1921. Serial No. 144,441.

OUR BUSINESS

Particular description of goods.—Writing-Paper Tablets, Composition-Books, Note-Books and Memorandum-Books, Stenographers' Note-Books, Block-Pads, Typewriter-Paper, Papeteries, Writing-Paper, Mailing-Envelops, and Correspondence-Cards.
Claims use since Dec. 24, 1919.

144,152. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Oct. 28, 1920. Serial No. 138,935.

"Justrite"

Particular description of goods.—Combs.
Claims use since Jan. 1, 1905.

144,153. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WESTERN VULCANIZER MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 10, 1920. Serial No. 137,058.

NEVER·STICK·

Particular description of goods.—A Preparation to Prevent Tires from Sticking to Molds When Curing, Said Preparation for Use in Retreaders, Molds, and Tube-Plates.
Claims use since Aug. 15, 1919.

144,154. (CLASS 39. CLOTHING.) THE WOLFSON COMPANY, Chicago, Ill. Filed Sept. 21, 1920. Serial No. 137,438.

PEERLESS

Particular description of goods.—Belts for Supporting Wearing-Apparel, Suspenders, and Garters.
Claims use since 1912.

144,156. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CHARLES S. HENSHAW, Boston, Mass. Filed Oct. 6, 1919. Serial No. 123,484.

Rental Purchase Plan

Particular description of goods.—Motor-Vehicles Comprising Passenger-Automobiles—Namely, Roadsters, Touring-Cars, Limousines, Coupés, Sedans, Landaulets—and Also Motor-Trucks for the Hauling of Goods.
Claims use since about Apr. 15, 1915.

TRADE-MARK REGISTRATIONS RENEWED.

17,970. EXTRACTS OF BEEF, SPICED AND SEASONED. ARMOUR & CO., Chicago, Ill.: Armour and Company, a Corporation of Illinois, assignee.
Registered June 3, 1890. Renewed June 3, 1920.

LABELS

REGISTERED JUNE 21, 1921.

23,021.—*Title:* "ALDRICH'S A No. 1 A BACK-TO-THE-OLD-TIMES GOOD CIGAR." (For Boxes Containing Cigars.) CHASE DAVIS ALDRICH, Blandinsville, Ill. Filed May 8, 1920.

23,022.—*Title:* "ROYAL METAL POLISH." (For Cans Containing "Royal" Metal-Polish.) B. HELLER & Co., Chicago, Ill. Filed February 21, 1921.

23,023.—*Title:* "OZO TOILET CLEANER." (For Receptacles Containing "Ozo" Toilet Cleaner, a Preparation for Cleaning Closet-Bowls.) B. HELLER & Co., Chicago, Ill. Filed February 21, 1921.

23,024.—*Title:* "MRS. RANDALL'S CREAM SALAD DRESSING." (For Receptacles Containing Salad-Dressing.) Mrs. MAUDE O. RANDALL, Cottonwood, Idaho. Filed February 17, 1921.

PRINTS

REGISTERED JUNE 21, 1921.

5,633.—*Title:* "MAGNETO TYPE BATTERY SYSTEM." (For Advertising Purposes for Ignition Apparatus.) AMERICAN BOSCH MAGNETO CORPORATION, Springfield, Mass. Filed July 3, 1920.

5,634.—*Title:* "BACHMAN 'THE FINEST CHOCOLATE IN THE WORLD.'" (For Advertising Purposes for Chocolate-Bars.) BACHMAN CHOCOLATE MANUFACTURING CO., Mount Joy, Pa. Filed January 12, 1921.

5,635.—*Title:* "KEEP KITCHEN UTENSILS FROM RUSTING." (For Advertising Purposes for "Nokorode" Soldering-Paste.) FRANK CHAPMAN, Providence, R. I. Filed October 16, 1920.

5,636.—*Title:* "A REPAIR BILL SAVED." (For Advertising Purposes for "Nokorode" Soldering-Paste.) FRANK CHAPMAN, Providence, R. I. Filed October 16, 1920.

5,637.—*Title:* "ELECTRIC HOUSEHOLD UTILITIES." (For Advertising Purposes for Washing-Machines.) DOW MANUFACTURING COMPANY, Braintree, Mass. Filed March 3, 1921.

5,638.—*Title:* "EBLING'S MALT TONIC." (For Advertising Purposes for Malt Tonics.) THE EBLING BOTTLING CO. INC., New York, N. Y. Filed February 16, 1921.

5,639.—*Title:* "A LIFE SAVER AMONG LIFE SAVERS." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,640.—*Title:* "COFFEE AND COURAGE ARE SHIPMATES." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,641.—*Title:* "WHEN YOUR COLLAR STARTS TO WILT." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,642.—*Title:* "WHEN YOU ENTERTAIN." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,643.—*Title:* "MY REPUTATION DEPENDS ON COFFEE." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,644.—*Title:* "ICED COFFEE MORE THAN MERELY COOLING." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,645.—*Title:* "ANYBODY CAN MAKE GOOD COFFEE IF—." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,646.—*Title:* "THE ZERO HOUR." (For Advertising Purposes for Coffee.) JOINT COFFEE TRADE PUBLICITY COMMITTEE OF THE UNITED STATES, New York, N. Y. Filed January 12, 1921.

5,647.—*Title:* "IF IT SWIMS WE HAVE IT." (For Advertising Purposes for Fish.) MIDWEST FISHERIES ASSOCIATION, Kansas City, Mo. Filed September 23, 1920.

5,648.—*Title:* "ODO-RO-NO ENDS PERSPIRATION ANNOYANCE." (For Advertising Purposes for Liquid Deodorizing Preparations for Perspiration Annoyances.) THE ODORONO CO., Cincinnati, Ohio. Filed January 14, 1921.

5,649.—*Title:* "CALL THE OWL." (For Advertising Purposes for Oils, Gas, Automobile-Repair Parts, Batteries, and Accessories.) OWL GARAGE & REPAIR Co., Washington, D. C. Filed February 17, 1921.

5,650.—*Title:* "WHAT IS YOUR BRAIN WORTH?" (For Advertising Purposes for Accounting-Machines.) FRANK C. PANGBORN, Grand Rapids, Mich. Filed December 31, 1920.

5,651.—*Title:* "THE FINEST REPRODUCING PHONOGRAPH IN THE WORLD." (For Advertising Purposes for Phonographs.) STEGER & SONS PIANO MANUFACTURING COMPANY, Steger, Ill. Filed February 12, 1920.

5,652.—*Title:* "THE MOST VALUABLE PIANO IN THE WORLD." (For Advertising Purposes for Pianos.) STEGER & SONS PIANO MANUFACTURING COMPANY, Steger, Ill. Filed February 27, 1920.

5,653.—*Title:* "NEW MEXICO SHELLED PIÑON NUTS." (For Advertising Purposes for Piñon-Nuts.) FANNIE S. SPITZ, Albuquerque, N. Mex. Filed October 23, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

HAYES *v.* DAVISON.

Decided April 4, 1921.

PATENTS—INTERFERENCE NOT SUSPENDED TO INVESTIGATE PUBLIC USE.

The sole purpose of an interference being to determine the question of priority, it will not be suspended after testimony has been taken for the purpose of considering public use or intervening rights.

Mr. Dyer Smith for Hayes.

Mr. Frank Toohey for Davison.

SMYTH, *C. J.:*

Hayes appeals from the decision of the Acting Commissioner of Patents awarding Davison priority in an interference relating to an invention expressed in the following count:

> The combination, with the transmission and drive shafts of a motor vehicle, of mechanism adapted to lengthen the wheel base of said vehicle, comprising means to extend the rear wheels, supporting axle, and transmisssion shaft operatively connected therewith, from the motor drive shaft rearwardly, means carried by the side frames to support and maintain the transmission shaft at substantially the same angle with the rear axle, in said moved position, as in the former position, and means to connect the motor drive shaft with said transmission shaft in its new position.

Hayes filed June 28, 1915, and Davison May 4, 1916. The application of the latter was for a reissue of patent dated December 14, 1915, and issued on an application filed April 14, 1915. Davison is, therefore, the senior party by virtue of the filing date of his original application.

At first there were four parties to the interference—Howard, Beauchamin, Hayes, and Davison. Hayes moved to dissolve on the ground that neither Davison nor Howard had a right to make the claim, for reasons stated. The motion was denied by the Law Examiner.

Hayes and Davison only took testimony. The Examiner of Interferences, the Examiners-in-Chief and the Acting Commissioner united in awarding priority to Davison. Hayes says that Davison should not prevail, because of the bar of public use and of intervening rights. But it has been held many times, as shown by the opinion of the Examiners-in-Chief, that an interference, being for the sole purpose of determining priority, will not be suspended after testimony has been taken for the purpose of considering public use or intervening rights. These questions can not properly be considered in an interference. (*Burson* v. *Vogel*, C. D., 1907, 669; 131 O. G., 942; 29 App. D. C., 388; *Norling* v. *Hayes*, C. D., 1911, 347; 166 O. G., 1282; 37 App. D. C., 170.)

It is further contended that Davison has no right to make the claims because the invention is not disclosed in his application. The Acting Commissioner, approving the decision of the Law Examiner on this point, correctly held that the invention of the issue was disclosed in the application of both parties.

With respect to the argument that Davison's reissue application is not for the same invention as that disclosed in his original application, the Acting Commissioner, in line with the lower tribunals, held that it was directed to the same generic end as the narrower claims of the first application, and therefore refused to yield to the argument. No reason appears for even doubting the correctness of this conclusion. A careful consideration of the other points raised by Hayes fails to reveal any reason for disturbing the decision of the Acting Commissioner, which is in harmony with that of each of the lower tribunals upon every point considered, and therefore it is affirmed.

Affirmed.

Mr. Justice HITZ, of the Supreme Court of the District, sat in the place of Mr. Justice ROBB.

Court of Appeals of the District of Columbia.

JOHN SEXTON AND COMPANY *v.* SCHOENHOFEN COMPANY, (No. 1,390.) SAME *v.* SAME, (No. 1,391.)

Decided April 4, 1921.

1. TRADE-MARKS—DESCRIPTIVE PROPERTIES OF GOODS—GRAPE-JUICE AND BEER.

Grape-juice and beer are not goods of the same descriptive properties. (*Schoenhofen Brewing Co.* v. *John Sexton & Co.*, C. D., 1914, 152; 2000 O. G., 1117; 41 App. D. C., 510.)

2. SAME—USE OF "EDELWEISS" ON ROOT-BEER COMPOUND—RIGHT TO EXTEND TO BEVERAGE.

Use of the mark "Edelweiss" on a compound from which root-beer is made cannot be used as a basis for establishing prior use on the beverage.

3. SAME—EXTENSION OF MARK FROM ALCOHOLIC TO NON-ALCOHOLIC BEVERAGES.

The user of a trade-mark on beer should be protected in the extension of its use to other cereal beverages, particularly in view of the eighteenth amendment to the Constitution, which has compelled transition to the production of non-alcoholic beverages.

Mr. W. F. Murray for Sexton & Co.

Mr. Wm. O. Belt for Schoenhofen Co.

VAN ORSDEL, *J.*:

These are trade-mark oppositions, in which appellant Sexton and Company, in Case No. 1,390, opposes the registration of the word "Edelweiss" as a trade-mark for root-beer, and in Case No. 1,391, the registration of the same word as a trade-mark for ginger-ale.

It appears that appellant company has never used the mark on ginger-ale, and the only use has been on a compound from which root-beer is made. It has never used the mark on root-beer as a beverage. Its position, therefore, is confined to its use of the mark on grape-juice. In the case of *Schoenhofen Brewing Co. v. John Sexton & Co.* (C. D., 1914, 152; 2000 O. G., 1117; 41 App. D. C., 510) we held that grape-juice and beer were not goods of the same descriptive properties. This distinction is not alone based upon the theory that one is an alcoholic and the other a non-alcoholic beverage, but that one is a cereal and the other a fruit beverage. The same distinction applies in the present case, and is determinative of the issue before us.

The alleged trade-mark use by appellant of "Edelweiss" on a root-beer compound cannot be used as a basis for establishing prior use on the beverage. Besides, the prior use by appellee of the mark on beer would protect it in the extension of its use to other cereal beverages which would fall within the natural expansion of its business. The eighteenth amendment to the Constitution and the laws for its enforcement, relating to the subject of prohibition, have compelled transition from the production and sale of alcoholic beverages to non-alcoholic beverages, which calls for liberal protection of trade-mark rights affected by this enforced change.

The decisions are affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

ANGLADA *v.* MOYER, CARROLL, AND BRYANT, (No. 1,409.) BRYANT *v.* CARROLL, ANGLADA, AND MOYER, (No. 1,410.)

Decided May 2, 1921.

PATENTS—PRIORITY—CONCURRING DECISIONS OF PATENT OFFICE.

Decision of the Commissioner of Patents, not being clearly wrong and the case turning upon a question of fact, on which all tribunals of the Patent Office concurred, affirmed.

Mr. A. W. Nelson for Anglada.

Mr. James A. Watson and *Mr. Bert M. Kent* for Moyer *et al.*

MEMORANDUM OPINION BY CHIEF JUSTICE SMYTH.

These appeals are from a decision of the Patent Office in an interference case relating to a locking device for a demountable tire-rim for automobiles. There are four interferants. Moyer was successful before each of the three tribunals of the Office. Anglada and Bryant appeal; Anglada against Moyer, Carroll and Bryant, and Bryant against Carroll, Anglada and Moyer.

The question involved is one of fact, and a careful study of the record fails to reveal palpable error on the part of the Commissioner. Therefore, following the rule announced in *Valerius et al. v. Pfouts*, this day decided, his decision in awarding priority to Moyer is affirmed.

Affirmed.

Mr. Justice HITZ, of the Supreme Court of the District, sat in the place of Mr. Justice ROBB.

Court of Appeals of the District of Columbia.

VALERIUS AND LARSEN *v.* PFOUTS.

Decided May 2, 1921.

PATENTS—PRIORITY—CONCURRING DECISIONS OF PATENT OFFICE.

Decision of the Commissioner of Patents, not being clearly wrong and the case turning upon a question of fact, on which all tribunals of the Patent Office concurred, affirmed.

Mr. Geo. E. Tew for Valerius and Larsen.

Mr. E. R. Alexander and *Mr. Geo. B. Pitts* for Pfouts.

MEMORANDUM OPINION BY CHIEF JUSTICE SMYTH.

Valerius and Larsen appeal from a decision of the Commissioner of Patents in an interference proceeding relating to an improvement in ice-cream freezers whereby flavoring material may be admitted into the freezing-cylinder at any stage in the freezing process without interfering with the introduction of the next batch of cream mixture into the feed-tank. The case turned upon a question of fact, and the three tribunals of the Office concurred in awarding priority to Pfouts.

We cannot find that this ruling is clearly wrong, and hence, according to the well-established practice, (*Dunham v. Dyson et al.*, and cases there cited,) we affirm the decision of the Commissioner of Patents. All costs on the writ of certiorari issued at the instance of Pfouts are taxed against him.

Affirmed.

Mr. Justice HITZ, of the Supreme Court of the District, sat in the place of Mr. Justice ROBB.

Changes in Classification.

(ORDER No. 2,662.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 3, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 16, Builders' Hardware, (Division XX,) change the title of the class to read *Class 16, Miscellaneous Hardware*, abolish the existing subclasses, and establish in lieu thereof the following subclasses and definitions:

16.—MISCELLANEOUS HARDWARE.
1. **Miscellaneous.**
2. **Bushings or lining-thimbles—**
3. Wooden receptacle.
4. **Carpet-fasteners—**
5. Combined fasteners and stretchers,
6. Hook,
7. Moldings,
8. Rug,
9. Sliding,
10. Stair—
11. Risers,
12. Rods—
13. Catches—
14. Sliding,
15. Swinging,
16. Strips,
17. Swinging.
18. **Casters—**
19. Adjustable,
20. Antifrictionally swiveled—
21. Ball,
22. Cylinder—
23. Pivoted,
24. Ball—
25. Antifrictionally mounted—
26. Ball,
27. Cylinder,
28. Pivoted,
29. Bracket-supports,
30. Detachable,
31. Frame,
32. Leg-elevators—
33. Sliding,
34. Swinging,
35. Locked,
36. Lubricators,
37. Pintles,
38. Pintle-retainers—
39. Frame,
40. Rigid wheel-supports,
41. Scrapers,
42. Sliding,
43. Sockets,
44. Spring-supported,
45. Wheels—
46. Antifrictionally mounted,
47. Multiple—
48. Antifrictionally swiveled.
49. **Checks and closers—**
50. Hinge,
51. Liquid—
52. Concentric spring-chamber—
53. Cam,
54. Hinge—
55. Pivot,
56. Multiple piston,
57. Oscillating cylinder,
58. Oscillating piston,
59. Side spring-chamber—
60. Cam,
61. Spring and flexible link,
62. Spring and gear,
63. Spring and flexible link,
64. Spring and gear,
65. Spring and lever,
66. Pneumatic—
67. Flexible link,
68. Hinge,
69. Spring and gear,
70. Spring and lever.

16.—MISCELLANEOUS HARDWARE— Continued.
71. **Closers—**
72. Spring—
73. Bow,
74. Rubber,
75. Torsional—
76. Coil,
77. Volute,
78. Spring and flexible link,
79. Spring and gear,
80. Spring and lever,
81. Weight.
82. **Closure-checks—**
83. Inertia,
84. Pneumatic,
85. Spring—
86. Rubber.
87. **Door-hangers—**
88. Ball,
89. Cylinder,
90. Guide-brackets,
91. Guide-rollers,
92. Link and lever,
93. Sliding shoe,
94. Track and bracket,
95. Track and hood,
96. Tracks,
97. Wheel-mounts—
98. Antifrictionally-mounted wheels,
99. Door-elevating,
100. Floor,
101. Reciprocating track,
102. Traveling wheel,
103. Swinging,
104. Swiveling,
105. Vertically adjustable,
106. Wheel and guide-roller,
107. Wheels.
108. **Ferrules, rings, and thimbles—**
109. Ring-ferrules.
110. **Handles—**
111. Bar—
112. Swinging,
113. Braces,
114. Detachable,
115. Extensible,
116. Insulated—
117. Hand-wheels,
118. Knob,
119. Loop,
120. Wire,
121. Knob—
122. Flexible suspending means,
123. Swinging,
124. Lifts,
125. Loop—
126. Swinging,
127. Ring.
128. **Hinges—**
129. Adjustable—
130. Longitudinal,
131. Transverse,
132. Vertical—
133. Leaf,
134. Pintle,
135. Angular leaf-arm,
136. Antifriction,
137. Attachments,
138. Brace,
139. Catches—
140. Friction—
141. Sliding,
142. Spring-arm,
143. Rigid,
144. Sliding,
145. Spring-arm,

16.—MISCELLANEOUS HARDWARE— Continued.
Hinges—
Catches—
146. Swinging,
147. Combined latch,
148. Cover-plate,
149. Detachable leaf,
150. Flexible leaf,
151. Floor,
152. Gravitating—
153. Cam,
154. Cam and roller,
155. Lift-rod,
156. Multiple pintle,
157. Laminated,
158. Leaf-clamp,
159. Leaf-prongs,
160. Lifters,
161. Lubricating,
162. Multiple leaves,
163. Multiple pintle—
164. Concealed,
165. Flush,
166. Pin and slot,
167. Multiple-wing leaf,
168. Pintles—
169. Retainer,
170. Reversible,
171. Separable—
172. Hook,
173. Multiple pintle,
174. Rigid catch,
175. Sliding catch,
176. Sliding pintle,
177. Swinging catch,
178. Sliding segment,
179. Sliding and swinging,
180. Spring—
181. Detachable leaf,
182. Double-acting,
183. Multiple pintle,
184. Flat,
185. Floor,
186. Gravitating,
187. Leaf-clamp,
188. Multiple coil,
189. Pintle-coil,
190. Right angle,
191. Stop,
192. Wire.
193. **Sash-balances—**
194. Cord and counterweight,
195. Rack and pinion,
196. Sash and cord,
197. Spring—
198. Drum and cord,
199. Friction-roller,
200. Lever,
201. Rack and pinion.
202. **Sash-cord fasteners—**
203. Bendable,
204. Chain,
205. Clamps,
206. Hooks,
207. Knot,
208. Slack-cord holders,
209. Weight.
210. **Sash-cord guides—**
211. Casings—
212. Sheet metal, single piece,
213. Multiple wheel,
214. Sliding,
215. Wheel and casing.
216. **Sash-weights—**
217. Composite,
218. Sectional,
219. Weight and wheel.
220. **Window-head fasteners.**

THOMAS E. ROBERTSON, *Commissioner.*

Changes in Classification.

(ORDER No. 2,667.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 9, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 20, Wooden Buildings, (Division XLVI,) abolish the following subclass, with its definition:

Doors—
17. Oppositely hinged.

The patents formerly contained in this subclass have been placed for the most part in class 20, Wooden Buildings, subclass 16, Doors, Miscellaneous, and class 16, Miscellaneous Hardware.

THOMAS E. ROBERTSON,
Commissioner.

Patents Nos. 1,382,611 to 1,383,273.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 287—No. 4. TUESDAY, JUNE 28, 1921. Price—$5 per year.

[PUBLISHED JULY 12, 1921.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of June 28, 1921.

Patents	663—No.	1,382,611 to No.	1,383,273, inclusive.
Designs	81—No.	58,203 to No.	58,283, inclusive.
Trade-Marks	176—No.	144,157 to No.	144,332, inclusive.
Labels	27—No.	23,025 to No.	23,051, inclusive.
Reissues	4—No.	15,133 to No.	15,136, inclusive.
Total	951		

Nolan Act—Reciprocity of British Laws—Order No. 2,656, of May 10, 1921, Modified.

(Order No. 2,675.)

Department of the Interior,
United States Patent Office,
Washington, D. C., July 7, 1921.

In view of further information respecting the laws and practice of the United Kingdom of Great Britain and Ireland, Order No. 2,656, recognizing its laws as substantially reciprocal to the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) is hereby modified by requiring from British applicants asking for extensions of time under sections 1 and 2 of the act a letter or statement by the applicant or his agent that he was prevented from doing the act in the prescribed time by reason of circumstances arising from the state of the World War.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

Department of the Interior,
United States Patent Office,
Washington, D. C., June 27, 1921.

Fred Hollender & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Hinckley & Schmitt, 420 West Ontario street, Chicago, Ill., for registration of a trade-mark and trade-mark registered August 29, 1905, No. 45,804, to Fred Hollender & Co., 115–119 Elm street, New York, N. Y., and a notice of such declaration sent by registered mail to said Fred Hollender & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Fred Hollender & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

Patent No. 1,257,283.

On June 4, 1921, a decision was rendered that Alfred H. Dyson was not the first inventor of the subject-matter covered by claims 83, 84, and 85 of his Patent No. 1,257,283, subject, "Automatic telephone system," and no appeal having been taken within the time allowed such decision has become final.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Hagan and Cooper patent, No. 962,213, claims 5 and 9, for an improvement in cuff-pressing machines. *Held* not infringed. *American Laundry Machinery Co.* v. *United States Hoffman Co.*, 271 Fed. Rep., 856.

(U. S. C. C. A. N. Y.) The Johnson design patent, No. 45,092, for a design for a tire, consisting of a raised ridge extending around the tire and having extensions forming crosses and diamonds or squares. *Held* invalid as an effort to secure a monopoly of the mechanical excellences thought to inhere in the peculiar arrangement of ridges and hollows or to prevent the making of tires like those patented in another country by mechanical patent. *North British Rubber Co., Limited*, v. *Racine Rubber Tire Co. of New York*, 271 Fed. Rep., 936.

Correspondence by Mail.

Notice is hereby given to attorneys and others transacting business with the Patent Office that all mail-matter arriving at the Washington post-office up to the hour of closing business at the Patent Office each day will be entered as received on that day.

Communications to the Patent Office.

Rule 8. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters.

APPLICATIONS UNDER EXAMINATION.

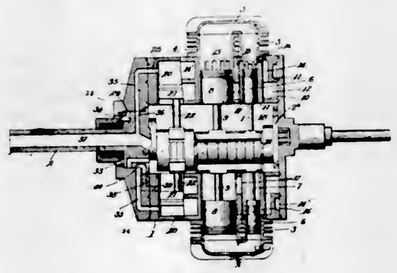
Condition at Close of Business June 18, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Feb. 1	Jan. 26	683
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 18	Dec. 4	1,508
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 8	Oct. 8	763
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	July 24	Mar. 16	1,508
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 11	Nov. 20	710
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 19	Mar. 23	855
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 17	Mar. 2	1,478
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 16	May 2	611
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 20	761
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Jan. 3	Apr. 20	1,150
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Mar. 17	Mar. 29	421
222	12. Machine Elements	Nov. 9	Mar. 17	1,046
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Aug. 25	Mar. 17	1,584
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 10	Apr. 25	896
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 10	Nov. 1	1,586
111	16. Radiant Energy; Telegraphy; Telephony	Aug. 17	Dec 3	1,459
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Mar. 7	804
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Sept. 7	Dec. 15	1,531
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 1	Jan. 3	866
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 10	Feb 9	1,140
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 29	Mar. 28	504
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Mar. 10	Apr. 26	389
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Oct. 23	Nov. 13	744
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Dec. 13	Mar. 25	886
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 25	Apr. 7	253
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Nov. 24	Jan. 15	774
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 1	Mar. 26	1,084
225	28. Internal-Combustion Engines	Dec. 1	Feb. 18	1,222
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Nov. 19	Apr. 1	684
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Jan. 27	May 2	1,004
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	July 24	Oct. 14	2,001
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 7	Mar. 1	1,101
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 21	Mar. 8	752
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	Apr. 29	May 14	281
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 2	May 7	513
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 26	Jan. 7	1,512
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 18	Dec. 18	1,847
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 3	Jan. 26	998
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	July 19	Sept. 17	1,674
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 3	Jan. 21	1,888
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Nov. 15	Feb. 26	848
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Oct. 4	Oct. 23	2,005
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Sept. 3	Nov. 11	1,316
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 20	Apr. 18	540
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Nov. 12	Apr. 6	1,013
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 22	Feb. 19	852
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Oct. 27	Jan. 12	1,039
	Oldest new case, July 10; oldest amended, Sept. 17.			
	Total number of applications awaiting action			49,084
103	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 21	Apr. 11	4,828
	Designs	Oct. 11	Dec. 10	2,182
	Labels and Prints	Mar. 24	June 3	470

PATENTS

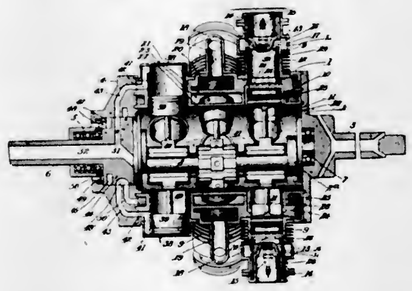
GRANTED JUNE 28, 1921.

1,382,611. ROTARY GAS-ENGINE. BENJAMIN F. AUGUSTINE, Buffalo, N. Y. Filed Aug. 15, 1917. Serial No. 186,415. 13 Claims. (Cl. 123—44.)



2. A rotary gas engine including in combination an inclosed casing, a plurality of cylinders carried thereby, a piston for each cylinder, means for forming an air supply chamber centrally of the casing, said cylinders having air intake ports and passages communicating with said air supply chamber, an independent fuel supply chamber, means for supplying the fuel chamber with fuel, said cylinders having fuel intake ports and passages connecting the same with the fuel supply chamber, said air intake ports and said fuel intake ports being disposed in the same region and controlled by the pistons, said cylinders having exhaust ports located at a distance from said air intake ports, and means for controlling said exhaust ports, said air intake ports being disposed between the fuel intake ports and proportioned so as to admit air before the admission of fuel gases and also during the admission of the fuel gases.

1,382,612. ROTARY GAS-ENGINE. BENJAMIN F. AUGUSTINE, Buffalo, N. Y. Filed Aug. 15, 1917. Serial No. 186,416. 15 Claims. (Cl. 123—44.)



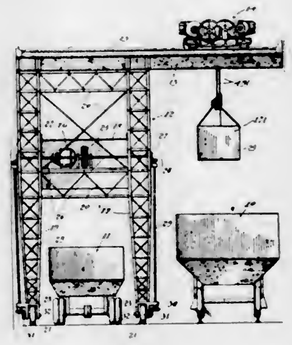
15. A rotary gas engine including in combination a fixed shaft having a crank, a casing mounted to rotate about said shaft, said casing having spaced cylindrical partitions forming an air chamber surrounding the crank, a fuel supply chamber surrounding said air chamber, and an exhaust chamber surrounding said fuel supply chamber, a plurality of radially disposed cylinders carried by the casing and extending through the cylindrical partitions to the air chamber, each cylinder having air intake ports at the inner end thereof, and passages connecting with said air chamber, said cylinder having fuel intake ports at the inner end thereof, and passages connecting said fuel intake ports with the fuel supply chamber, said cylinder having exhaust ports at the outer end thereof, a casing surrounding each cylinder and exhaust ports, a pipe connecting the last named casing with the exhaust chamber whereby the exhaust gases are led from the cylinders to the exhaust chamber, and means for supplying air to the crank casing and for supplying fuel to said fuel supply chamber.

1,382,613. METHOD OF MAKING PRINTING-PLATES. ARTHUR C. AUSTIN, Chicago, Ill., assignor of one-half to Magill-Weinsheimer Co., Chicago, Ill., a Corporation of Illinois. Filed May 3, 1920. Serial No. 378,629. 12 Claims. (Cl. 41—46.)



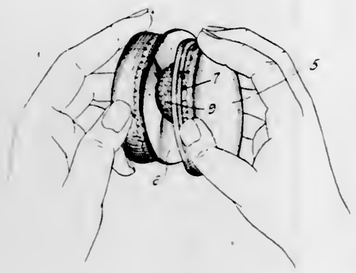
1. The method of making printing plates which consists in first preparing a plate with the design thereon raised and in relief; then filling the interstices in said plate with a filler; transferring said filler to a reproducing body; and utilizing said reproducing body to produce a printing plate, substantially as described.

1,382,614. HOISTING AND CONVEYING MACHINERY. CHRISTIAAN W. AVELING, Elgin, Ill. Filed May 24, 1918. Serial No. 236,302. 1 Claim. (Cl. 214—89.)



A traveling crane comprising a motor-driven carriage, an overhead bridge carried by said carriage, and extending transversely to the normal line of travel of said carriage, a hoist-trolley traveling on said bridge, a grab-bucket supported by said hoist-trolley and raised and lowered thereby, and moved along the bridge thereby and an endless-belt conveyer carried by said carriage, and mounted to swing about a vertical axis, to which said grab-bucket delivers the material.

1,382,615. PAINTING GOLF-BALLS. ALFRED J. BATE, Yonkers, N. Y. Filed Oct. 18, 1920. Serial No. 417,560. 3 Claims. (Cl. 91—60.)



1. Apparatus for painting golf balls and the like comprising a pair of frames of larger diameter than a golf ball, and covers of relatively flexible porous material stretched over the open mouths of the frames.

1,382,616. WEARING-APPAREL. ABRAHAM BLATTNER, Pittsburgh, Pa. Filed Nov. 1, 1920. Serial No. 420,938. 2 Claims. (Cl. 2—41.)



1. In a shirt including a continuous rear flap or skirt and a sectional front flap or skirt, the combination with said skirts, of means for separably connecting said skirts, said means comprising a front strap section rigidly secured at one end to the lower inner edge of each of said front sections, and a rear strap section adapted for detachable connection at their front ends to the free ends of the front strap sections, the said rear strap sections terminating in divergent tabs rigidly secured to the lower end of the rear flap or skirt of the shirt, and complementary separable fasteners carried by the mating ends of said strap sections respectively, whereby they may be readily connected and disconnected.

1,382,617. DRY MIXTURE FOR FIRE AND WATER PROOF PAINT. GUIDO BLENIO, New York, N. Y., assignor to Blenio Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 7, 1919. Serial No. 270,026. Renewed Nov. 16, 1920. Serial No. 424,759. 5 Claims. (Cl. 134—46.)

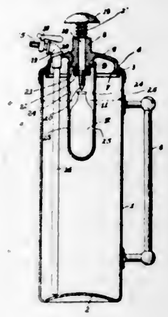
5. In a dry mixture for paints, a filler composed of calcined magnesite 15 parts, calcium carbonate 25 parts, china clay 30 parts, calcium hydrate 7 parts and a binder composed of casein 14 parts, neutral soap 3 parts, and waterproofing compound 6 parts.

1,382,618. FIREPROOFING SOLUTION. GUIDO BLENIO, New York, N. Y., assignor to Blenio Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 11, 1919, Serial No. 270,716. Renewed Nov. 18, 1920. Serial No. 425,031. 4 Claims. (Cl. 23—5.)

4. A solution for fireproofing resulting from a mixture of the following ingredients in substantially the following proportions.

Sulfuric acid	5 gallons.
Boracic acid crystals	15 pounds.
Phosphoric acid	10 gallons.
Water	100 gallons.
Ammonia: Just sufficient to render the solution neutral.	

1,382,619. FIRE-EXTINGUISHER. GUIDO BLENIO, New York, N. Y., assignor to Blenio Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1919, Serial No. 273,412. Renewed Nov. 18, 1920. Serial No. 425,032. 1 Claim. (Cl. 169—31.)



In a pressure operated fire extinguisher the combination of a container and a head adapted to be secured in the upper end of the container, having a central exterior boss and a central interior boss, a capsule receptacle, removably carried by the interior boss, a rod extending through the bosses having a head on its outer end and having its inner end screwthreaded and pointed, a spring between the headed end of the rod and the outer boss, a washer on the inner end of the rod adapted to seat against the inner face of the interior boss, and a nut on the rod for adjusting the position of the washer.

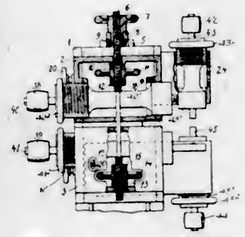
1,382,620. WIRE-CLAMP. WILLIAM JAMES CARLEY, Culpeper, Va., assignor to Marie Bessiers, Culpeper, Va. Filed Jan. 31, 1920. Serial No. 355,384. 4 Claims. (Cl. 191—43.)



1. A clamp for a trolley wire comprising, in combination, a member adapted for engagement with a hanger stud, two clamping members engaged with the member and capable of rotation therearound, each of said clamping members being provided with an external ledge, and a tubular member threaded upon the first named member and adapted to engage the ledges of the clamping members to force the clamping members one toward the other, the faces of the second named members opposed to the clamping members each being provided with a recess,

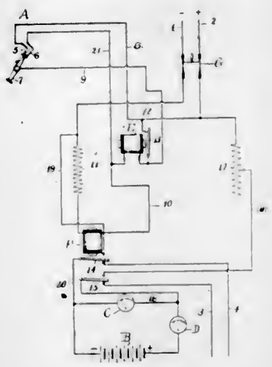
said clamping members being provided with upstanding flanges extending within said recesses, the recess of said second member constituting an enlargement of the bore of said second member.

1,382,621. TENONING-MACHINE. LARS BRUUN, Skien, Norway. Filed Jan. 6, 1920. Serial No. 349,744. 3 Claims. (Cl. 144—198.)



1. In a tenoning machine, the combination of a frame provided with a guide; a slide adjustably engaged with said guide and having an opening, a portion of which is threaded; a cylindrical sleeve projecting through said opening and adapted to move bodily with the slide, said sleeve having an externally threaded portion which is engaged with the threaded portion of the opening; means connected to said sleeve to effect its rotation and consequent endwise movement through said opening; a cutter spindle rotatably mounted in the sleeve to move endwise therewith; means carried by said spindle for effecting its rotation; and means independent of the sleeve-adjusting means for effecting adjustment of the slide.

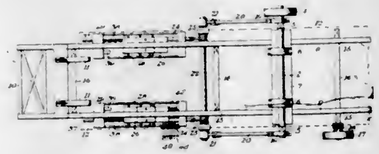
1,382,622. PROGRAM BATTERY-CHARGING DEVICE. JAMES W. BRYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed Oct. 29, 1918. Serial No. 260,109. 4 Claims. (Cl. 171—314.)



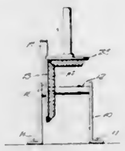
2. In a system of the kind described, the combination with a source of charging current, a storage battery, a charging circuit, time controlled relays, and a clock line adapted to be connected by said relays to the battery, the clock line being at all times insulated from the charging circuit.

1,382,623. FEED-SPACER. CHRISTOPHER BYRNE, Pittsburgh, Pa. Filed Apr. 8, 1920. Serial No. 372,149. 22 Claims. (Cl. 164—117.)

1. A feed spacer, comprising a metal working machine, means for operating the same, a feed table, means for securing the work thereon, feeding means for moving the table in one direction, and independent means for producing a return movement of said feeding means, substantially as described.

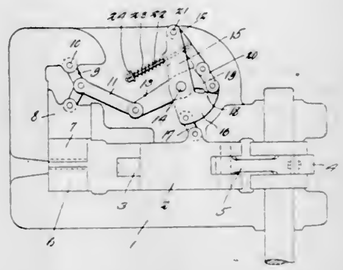


1,382,624. GEARING FOR VEHICLE-SIGNALS. HARRY C. CARSON, Cheviot, Ohio. Filed June 24, 1920. Serial No. 391,313. 1 Claim. (Cl. 74—7.)



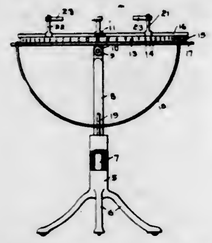
In a device of the character described adapted to actuate a signal, a bracket disposed adjacent the foot of the operator and including spaced uprights, a shaft journaled in said uprights, a driving disk rotatably mounted on said shaft and having a beveled gear on one face and having its opposite face smooth, a foot pedal secured to the smooth face of the driving disk eccentric thereof, a spacing sleeve arranged on said shaft and spacing the driving disk from one of the uprights, and motion transmission means including a beveled gear engaging the beveled gear of the driving disk to receive the motion therefrom and coacting with the spacing sleeve for maintaining the driving disk in position on the shaft.

1,382,625. AUTOMATIC RELEASE MECHANISM FOR HEADING AND FORGING MACHINES. WILLIAM L. CLOUSE, Tiffin, Ohio, assignor to The National Machinery Co., Tiffin, Ohio. Filed July 12, 1920. Serial No. 395,574. 2 Claims. (Cl. 10—23.)



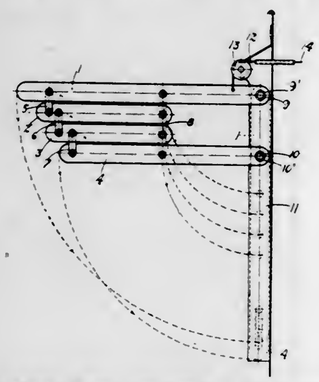
1. In a heading machine the combination with a heading slide and a gripping slide, and a toggle for actuating the gripping slide, of crossed members mounted upon a fixed pivot coöperating abutments upon said members, a link connection between one of the members and the heading slide, a link connection between the other member and the toggle, a supplemental toggle connected to the crossed members, and yielding means connected to said supplemental toggle for holding it normally extended with the abutments of the members in contact, said toggle being adapted to break against the action of the spring when the crossed members are subjected to excessive resistance to their rotation in one direction about the fixed pivot.

1,382,626. TABLE FOR AUTOMOBILE-RADIATORS. JOHN A. CONTOS, Grand Island, Nebr., assignor of one-half to Nick Jamson, Grand Island, Nebr. Filed July 29, 1920. Serial No. 399,771. 2 Claims. (Cl. 29—89.)



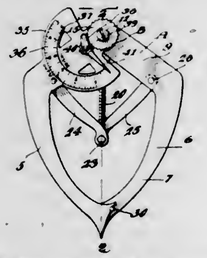
1. A work supporting table including a base, said base having a pin extending upwardly therefrom, a standard having an opening formed in one end thereof, to accommodate the pin, cross arms having pivotal connection with the standard, a circular member having openings formed therein, means carried by one of the cross arms and adapted to be positioned in one of the openings to secure the cross arms in various positions of adjustment, and adjustable clamping members carried by the cross arms.

1,382,627. VEHICLE DIRECTION-SIGNAL. EARL L. CUTHBERTSON, Alton, Ill. Filed Feb. 2, 1920. Serial No. 355,552. 4 Claims. (Cl. 116—53.)



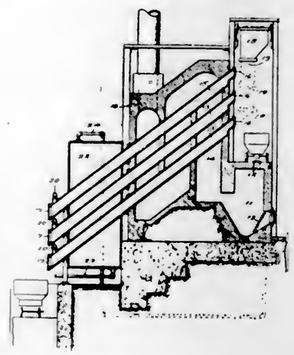
1. A signal device comprising a standard, a pair of fingers pivotally connected to said standard, a series of fingers positioned between said pair of fingers and pivotally connected thereto, and means for raising and lowering said fingers.

1,382,628. MEASURING INSTRUMENT. ARTHUR L. DANIELS, Burlington, Vt. Filed Oct. 19, 1920. Serial No. 417,992. 6 Claims. (Cl. 33—148.)



1. An inside and outside caliper comprising a pair of legs pivotally connected together having measuring points formed thereon, a supporting bracket carried by the pivot of said legs, and adjusting screw slidably carried by the bracket, a pair of adjusting arms pivotally secured to the legs, means pivotally connecting the ends of the legs together, means pivotally connecting the lower end of the adjusting screw to the meeting terminals of the adjusting arms, and a thumb nut fitted on said screw for non-sliding movement in relation to the legs.

1,382,629. PROCESS FOR PREPARING LIGNITE FOR FUEL. SAMUEL M. DARLING, Washington, D. C. Filed Dec. 1, 1919. Serial No. 341,768. 3 Claims. (Cl. 44—23.)



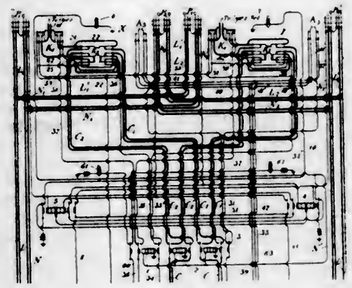
1. The herein described process for preparing lignite for use as fuel consisting of mixing the lignite with pitch in the proportions of 8 to 10 parts of pitch to 80 to 82 parts of lignite, briqueting the mixture, heating the briquets to distil off volatile matter therein in the form of gases and cooling the briquets in the presence of said gases.

1,382,630. RESILIENT TIRE. LAURENCE R. DAVIS, Providence, R. I., assignor to Revere Rubber Company, a Corporation of Rhode Island. Filed July 17, 1920. Serial No. 397,111. 2 Claims. (Cl. 152—1.)



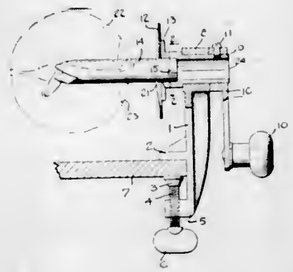
2. A one-piece cushion tire of solid rubber having its tread formed with a central peripheral groove and with notches communicating with said central groove, each of said notches extending laterally from the groove a distance less than half the total width of the tire, and continuous unbroken tread surfaces flanking the notches.

1,382,631. REPEATER-CIRCUITS. CHARLES S. DEMAREST, Brooklyn, and SAMUEL P. SHACKLETON, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 17, 1919. Serial No. 297,902. 6 Claims. (Cl. 179—170.)



1. In a signaling system, a repeater, a plurality of lines, a plurality of sets of switching apparatus for associating the repeater with a line, parallel transmission connections extending from said repeater to each set of switching apparatus, keys associated with each set of switching apparatus for controlling the functioning of the repeater, and means whereby when the repeater is associated with a line by one set of switching apparatus the repeater will be rendered independent of the controlling keys of another set of switching apparatus without disturbing said parallel transmission connections.

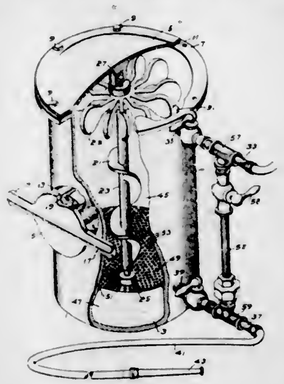
1,382,632. CORING-MACHINE. MICHELE G. DE SIMONE, Staten Island, N. Y., assignor to Victor Lambert, Brooklyn, N. Y. Filed Mar. 12, 1920. Serial No. 365,161. 3 Claims. (Cl. 146—6.)



1. A coring machine comprising a hollow shaft, means for supporting said shaft, a hollow coring member, means for removably securing said hollow coring member to said hollow shaft, the interior of said hollow coring member communicating with the interior of said hollow shaft for the discharge of the core therethrough, a stop plate carried by said hollow shaft and paring means secured to said stop plate.

1,382,633. CLEANING DEVICE. JOHN A. DE VITO, West Medford, Mass. Filed Nov. 5, 1919. Serial No. 335,906. 3 Claims. (Cl. 299—84.)

1. A device of the character described, comprising a casing having a chamber therein provided with an apertured bottom, an upright shaft mounted in said chamber, a turbine mounted on said shaft in said chamber, means to direct water against the turbine to rotate the same and agitate the water in the chamber, a screw on said shaft in said chamber for elevating materials from the bottom of the chamber toward the turbine, that the materials may meet the water agitated by the turbine, and



means to deliver the water and materials mixed therewith from said chamber.

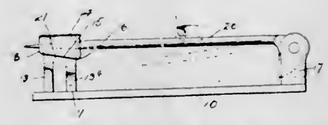
1,382,634. TWO-IN-ONE GARBAGE-CAN. VICTOR G. FERNANDEZ, New York, N. Y. Filed Oct. 21, 1920. Serial No. 418,529. 6 Claims. (Cl. 220—22.)



1. The combination with a rigid flat partition for receptacles, of spring arms attached to said partition and projecting from the edges thereof and adapted to be bowed for frictional engagement with the inner faces of the walls of the receptacle to retain the partition therein.

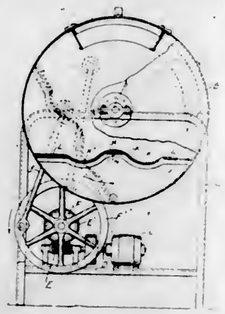
5. The combination with a removable partition for receptacles, of a spring strip detachably secured to the partition permitting it to be shipped in knockdown condition, the end portion of said strip projecting a considerable distance beyond the edge of the partition when attached thereto and adapted to be bowed for frictionally engaging the inner face of the walls of the receptacle to retain the partition therein.

1,382,635. SAFETY-CATCH. JOHN FIELDING, Providence, R. I., assignor of one-half to Joseph P. Whitaker, Apponaug, R. I. Filed Nov. 24, 1920. Serial No. 426,887. 3 Claims. (Cl. 24—156.)



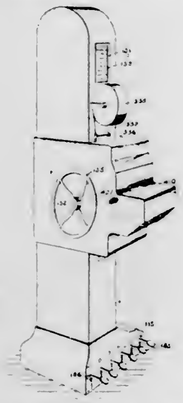
1. A catch member for pin tongues comprising a broad-faced hook-shaped hood, a lower guard and guide lip extending forwardly beyond the front edge of said hood, and oppositely projecting extending portions on said hook and lower lip out of vertical alinement with each other guarding the mouth of the catch and so arranged that the body portion of the pin tongue must be sprung inwardly out of its normal alinement to permit its end portion to pass said extensions in either entering or leaving said catch.

1,382,636. WASHING-MACHINE. OSCAR F. FISCHEDICK and ALVIN W. KRAHN, Milwaukee, Wis. Filed Oct. 15, 1917. Serial No. 196,589. 5 Claims. (Cl. 68—21.)



1. A cylindrical washing drum supported to oscillate about the horizontal axis of the drum, and having an interior clothes supporting partition below its axis, the central portion of which is arched and imperforate and continuous with the marginal side portions from one end of the drum to the other, and the side portions of which are provided with a multitude of small openings of such number and capacity as to permit a substantially free flow of water underneath the partition from one side to the other, along the interior surface of the peripheral wall of the drum, while preventing articles of clothing from passing to the space beneath the partition.

1,382,637. MACHINE FOR PRINTING AND ISSUING RAILWAY-TICKETS. FREDERICK L. FULLER, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed Oct. 27, 1916. Serial No. 128,093. 60 Claims. (Cl. 235—31.)

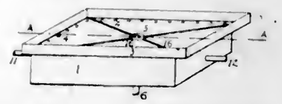


1. In a machine of the class described, the combination of type carriers for printing values on tickets, a plurality of destination devices, each provided with means for printing class designations on tickets, a plurality of means carried by the destination devices, each means representing the value of a ticket of the appropriate class and adapted to control said type carriers, and means for moving the desired destination device into position to print a designation of the desired class on a ticket, the type carriers being controlled by the corresponding controlling means on the desired device to print the value on the ticket.

16. In a machine of the class described, the combination of a consecutive counter, differential mechanism for turning the counter to zero and then actuating the counter to set up the next consecutive number, means for actuating the differential mechanism to add one thereon after the differential mechanism is adjusted under the control of the consecutive counter, and means for engaging and disengaging the counter and differential mechanism so that they are in engagement when the counter is actuated by the differential mechanism and out of engagement when the differential mechanism is actuated by the adding means.

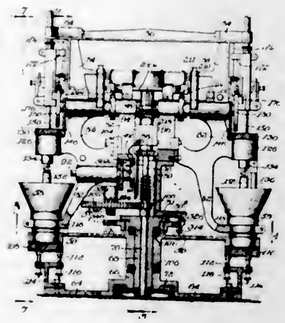
45. In a machine of the class described, the combination of a consecutive counter, differentially movable members provided with ratchet teeth, mechanism for actuating the members to turn the counter to zero and then set up the next consecutive number on the counter, a pawl cooperating with the ratchet teeth on the differentially movable members to add one thereon while the members are in the positions to which they are adjusted under the control of the consecutive counter, and means for engaging and disengaging the counter and the members so that they are in engagement when the counter is actuated by the members and out of engagement when the members are actuated by the pawl.

1,382,638. DEVICE FOR COOLING LIQUIDS. JOHN H. GOSS, Chicago, Ill. Filed Apr. 28, 1917, Serial No. 165,096. Renewed Dec. 2, 1920. Serial No. 427,799. 1 Claim. (Cl. 62—42.)



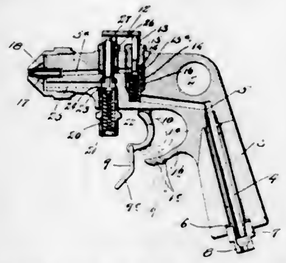
A device for cooling liquids comprising a container having shoulders, a top supported on said shoulders and removably fastened thereto with bolts, and adapted to hold ice, a drain pipe extending through the container and connected with said top, grooves in said top leading to said pipe and pipes connected with said container to allow the liquid to enter and leave, substantially as described.

1,382,639. BATTERY-CORE-MAKING MACHINE. JOHN GRAVES, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed July 5, 1918. Serial No. 243,503. 31 Claims. (Cl. 18—5.)



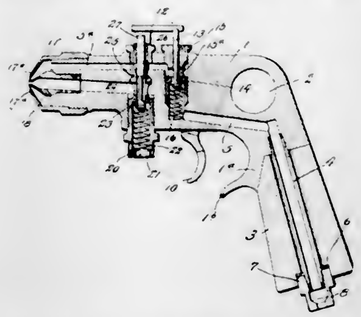
1. In a device of the class described, a tamping machine adapted to insert powdered material in a mold and tamp it by a plurality of successive taps, a carbon injecting machine adapted to insert a carbon pencil in a mold containing previously tamped powdered material, an ejecting mechanism adapted to eject from a mold a finished core containing a carbon therein produced by the first two machines, means for progressively supplying a plurality of molds to said three machines, and automatic means for operating all of the parts named in proper sequence to produce the product.

1,382,640. SPRAY-GUN. WALTER A. HEINRICH, St. Louis, Mo., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo., a Corporation of New Mexico. Filed June 1, 1920. Serial No. 385,652. 5 Claims. (Cl. 91—45.)



1. In a device of the character described, the combination of a casting formed with passages for air or gas and liquid or powder to be sprayed, valves in control of said passages, a trigger for operating said valves, a trigger guard on a downward extension formed on said casting, the rear face of said trigger guard being flattened, a hollow handle having a flattened tapered portion for engaging the flattened face of a casting, a tube screwed into the casting and establishing communication between one of the passages in the casting and a nipple at the lower end of the handle, a nut integral with the nipple and adapted to impinge against the lower end of the handle to hold said handle to its seat.

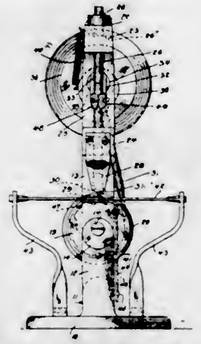
1,382,641. SPRAY-GUN. WALTER A. HEINRICH, St. Louis, Mo., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo., a Corporation of New Mexico. Filed June 1, 1920. Serial No. 385,653. 1 Claim. (Cl. 91—45.)



A spray gun comprising the combination of a casting formed with conduits or passages for compressed air or gas and a liquid or powder, valves in control of said passages, means for operating said valves, a nipple for supplying a central flow of liquid or powder, and an adjustable nozzle around said nipple for projecting a blast of air or gas around the forward end or mouth of said nipple, said nozzle being formed with diametrically opposite and angularly disposed straight openings in its conical forward end leading from the interior of the nozzle for directing angularly disposed blasts of air against two sides of the central blasts from the nozzle and immediately in front of said nipple.

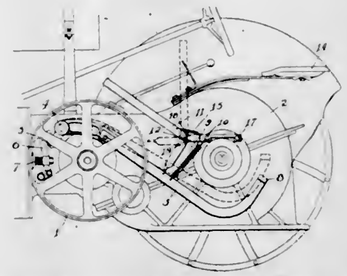
1,382,642. HEEL-TRIMMER. THOMAS B. HUESTIS, Bristol, R. I., assignor to National India Rubber Company, a Corporation of Rhode Island. Filed Dec. 18, 1919. Serial No. 345,787. 1 Claim. (Cl. 164—49.)

In a shearing machine, in combination, a rotatable feeding ledger and work-supporting member, a reciprocable cutting member in coöperating working relation therewith, a main shaft, a secondary shaft parallel to the main shaft and supporting the feeding ledger and work supporting member, a ratchet on said secondary shaft, means for



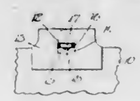
operating the cutter and feeding ledger and work supporting members from the main shaft including eccentric elements on the main shaft, and a pawl functioning eccentric rod for intermittently actuating a ratchet on the secondary shaft.

1,382,643. HOLDING MEANS FOR CLUTCH-LEVERS. ALLEN H. HUGHES and HAROLD S. CURREN, Rochester, N. Y. Filed Mar. 27, 1920. Serial No. 369,185. 5 Claims. (Cl. 74—39.)



1. In combination with a clutch lever normally movable to clutching position, a detaining member pivotally mounted above the clutch lever to swing one side of a dead center in order to hold said detaining member in detaining position, and a spring acting on said detaining member to move it to the other side of the dead center in order to free the clutch lever upon a depression of such clutch lever while it is held by the detaining member.

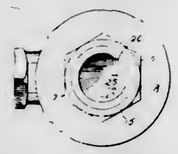
1,382,644. INDEX-CARD. DAVID E. HUNTER, Muskegon, Mich., assignor to Shaw-Walker Company, Muskegon, Mich., a Corporation of Michigan. Filed Feb. 1, 1919. Serial No. 274,436. 1 Claim. (Cl. 129—16.8.)



An index card having a portion near an edge thereof cut out to leave a recess, transparent material folded around the card edge and secured to the faces thereof and closing the sides of said recess to form a pocket, said material at one side of said card and at a distance below said pocket being cut away to expose part of the card and to form an entrance slot for the insertion of an index

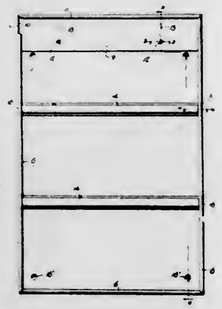
tablet into the pocket, said exposed card section below said slot being notched for the accommodation of an implement for withdrawing the tablet from the pocket.

1,382,645. STEAM-TRAP. FRANK L. HUTCHINSON, Milwaukee, Wis., assignor to Sterling Engineering Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 5, 1919. Serial No. 301,967. 5 Claims. (Cl. 236—58.)



1. The combination with a thermostatic outlet valve casing provided with fluid supply and outlet ports, of an apertured cap piece having a recess in its upper surface in communication with the aperture, a removable member seated in said recess and adapted to form a fluid tight closure covering and concealing said aperture, and means for clamping said member in position.

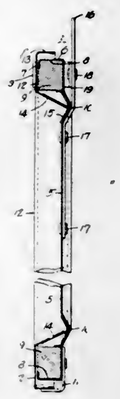
1,382,646. FRAME FOR ADVERTISING-CARDS. RICHARD A. JOHNSTON, New York, N. Y., assignor to Barron G. Collier, Incorporated, New York, N. Y., a Corporation of New York. Filed June 11, 1920. Serial No. 388,355. 1 Claim. (Cl. 40—64.)



A street car advertising frame comprising a rectangular sheet having its bottom end and side edges rolled inwardly to form a border and also to provide side grooves, the top extremities of said rolled side edges being beveled, said frame being provided with spaced elongated vertical slots, a closure member comprising a flat rectangular member slidable within said side grooves and corresponding in width to the width of the frame member but of relatively less length, said closure member formed with punched out portions and having its top edge rolled inwardly to simulate the beading on said sheet and its corners beveled to fit flush with the beveled corners of said side edges, said punched out portions adapted to engage in said slots for limiting the outward movement of said closure member, said side grooves adapted to slidably receive advertising cards when said closure member has been moved to its outward limit.

1,382,647. BILLBOARD. RICHARD A. JOHNSTON, New York, N. Y., assignor to Barron G. Collier, Incorporated, New York, N. Y., a Corporation of New York. Filed June 11, 1920. Serial No. 388,356. 3 Claims. (Cl. 40—125.)

1. In a device of the character described, a board provided with a beading, said board having a continuous groove or depression in its inner face contiguous to said beading, a frame pivoted to said board having a continuous pocket adapted to receive said beading and means on said frame adapted to seat in said groove when said frame is in closed position.



1,382,648. FOOTWEAR. FRANK A. JOSEPH, Naugatuck, Conn., assignor to L. Candee & Company, a Corporation of Connecticut. Filed Nov. 26, 1919. Serial No. 340,939. 4 Claims. (Cl. 36—4.)



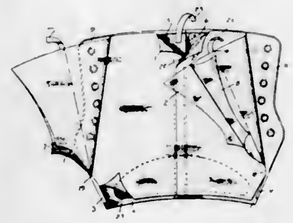
1. Rubber footwear having quarters, a gusset, and a pair of fabric sections each forming a one-piece lining for substantially all of a quarter and part of the gusset whereby the interior of the article is rendered smooth, comfortable and neat in appearance.

2. A boot with an expansible folded portion in its upper and having an exterior of waterproof material and the interior of its upper lined with textile throughout the vertical extent of the expansible folded portion and continuous and unbroken from its front to its rear median lines.

3. An article of footwear having an upper whose total girth at the top at least exceeds the size leg which it is adapted to encircle and is provided with two well-defined and downwardly convergent fold lines permitting the upper to be snugly fitted, said upper having a lining continuous and unbroken at and adjacent the fold lines throughout their extent.

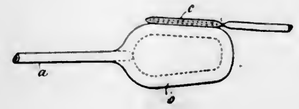
4. An article of footwear having an upper whose total girth exceeds the size leg which it is adapted to encircle and has at least two well-defined fold lines converging downwardly and disappearing intermediate the top and bottom of the upper thereby to permit neat folding of the upper about the leg, said upper having a lining continuous and unbroken at the region where the fold lines disappear.

1,382,649. METHOD OF MAKING FOOTWEAR. FRANK A. JOSEPH, Naugatuck, Conn., assignor to L. Candee & Company, a Corporation of Connecticut. Original application filed Nov. 26, 1919, Serial No. 340,939. Divided and this application filed May 7, 1920. Serial No. 379,456. 5 Claims. (Cl. 12—142.)



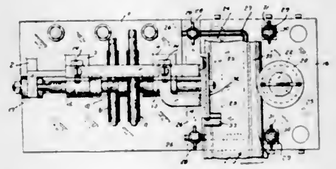
1. In the manufacture of rubber footwear having foldable portions, assembling the upper forming parts including the foldable portions off the last, mounting the upper thus assembled on a last, completing the assemblage of the parts of the article on the last, temporarily securing the folded portions in their final position, subsequently vulcanizing the articles, and thereafter freeing the foldable portions of the upper.

1,382,650. PRODUCTION OF BORES IN GLASS. JOSEPH KENT, Maldon, England. Filed Apr. 1, 1920. Serial No. 370,545. 6 Claims. (Cl. 49—79.)



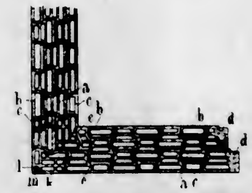
1. The method of manufacturing glass tubing, which consists in incorporating with a mass of glass a sealed length of glass tubing, and thereafter drawing out the piece thus constituted until it is reduced to the required cross-sectional dimensions, substantially as set forth.

1,382,651. MACHINE FOR TRIMMING FLASHED EDGES ON BINDING. WILLIAM J. KENT, New York, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Mar. 3, 1920. Serial No. 362,958. 24 Claims. (Cl. 164—61.)



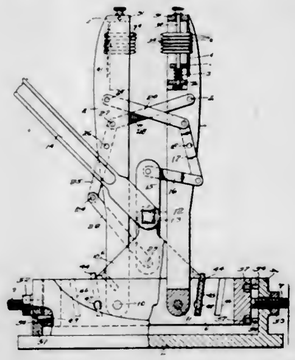
1. In a machine for trimming the flashed edges of a forked rubber binding, an edge trimming means, and guide means disposed wholly at one side thereof and coacting with the binding in advance and in rear of the trimming means to properly position for trimming the edges of either the closed or open side thereof.

1,382,652. BRICK OR BUILDING-BLOCK. JEAN E. KIEFER, Lausanne, Switzerland, assignor to Kiefer, Pasquier & Bizot, Lausanne, Switzerland. Filed Nov. 19, 1917. Serial No. 202,697. 3 Claims. (Cl. 72—41.)



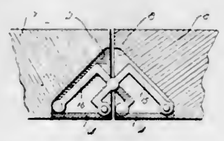
1. Hollow half bricks or building blocks having sides of equal length and so shaped that when the equal sides are placed together they form a brick or block having at least one face or side shaped as an S with equal limbs.

1,382,653. DEVICE FOR FACILITATING THE LUBRICATION OF VEHICLE-SPRINGS. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Jan. 6, 1921. Serial No. 435,559. 17 Claims. (Cl. 81—3.)



17. A device of the character described, comprising a pair of pivoted standards, means for forcing the upper ends of said standards toward each other, a vertical rod carried by each of said standards, a plurality of wedges mounted adjacent the upper end of each of said standards and having elongated slots formed therein through which said rods pass, springs carried by said standards, elements carried by said wedges against which said springs bear and a base upon which the lower ends of said standards are pivoted.

1,382,654. DOOR-HINGE. FRED J. KORB, Toledo, Ohio. Filed Sept. 4, 1920. Serial No. 408,257. 3 Claims. (Cl. 16—105.)



2. A door hinge including casings mounted in the adjacent margins of the door and door-jamb, a pair of links, one of which has one of its ends pivoted in the inner terminal of the door-jamb casing and its opposite end pivotally mounted in the outer end of the door casing, the other end of said link being arranged subjacent the first link and pivotally mounted in said casings in a manner converse to the manner of mounting the first said

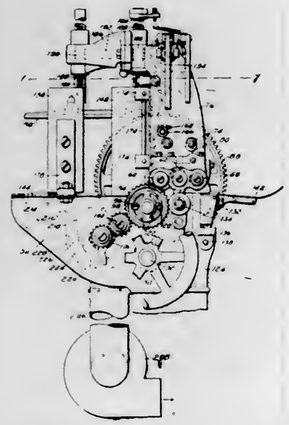
link, said links being arranged in superposed relation but not connected, and co-acting means on said links to prevent shearing thereof.

1,382,655. LIQUID-FUEL BURNER. AUGUST C. KREITZER, Humboldt, Kans. Filed Apr. 14, 1920. Serial No. 373,862. 3 Claims. (Cl. 158—75.)



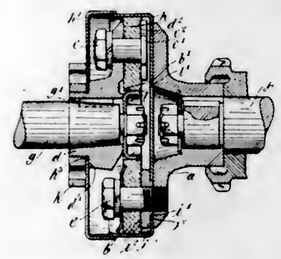
1. In a liquid-fuel burner, a tubular member, a fuel pipe in said member and spaced from the interior wall thereof, a steam supply connection to the tubular member, a fuel connection to the fuel pipe, a mixing chamber at the outlet end of the tubular member and the fuel pipe, a hollow member connecting the tubular member and the mixing chamber, the interior of said hollow member being flared toward the mixing chamber, said hollow member having side ports establishing communication with its interior and the tubular member, and the fuel pipe discharging centrally into the hollow member, the side ports being oblique to discharge in an oblique direction across the interior of the hollow member, a hollow deflector member seating in the outlet end of the mixing chamber and having a forward flare, said deflector member also having a central port and oblique side ports establishing communication between the interior of the mixing chamber and the interior of the deflector member, said side ports being out of alinement with respect to the first-mentioned side ports, and a nozzle tip having a connection with the interior of the deflector member.

1,382,656. SHOE-BLANK-SKIVING MACHINE. ELMER E. LANE, South Berwick, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 18, 1917, Serial No. 181,445. Renewed July 30, 1919. Serial No. 314,270. 34 Claims. (Cl. 12—17.)



1. A shoe blank skiving machine, having, in combination, a skiving knife, a die roll, a pressure roll, a matrix rotatably mounted on the die roll, means for rotating the rolls, and independent mechanism for rotating the matrix at the same speed as the die roll.

1,382,657. COUPLING. FRED L. LIPCOTT, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 3, 1919. Serial No. 301,404. 3 Claims. (Cl. 64—96.)



3. In combination with two shafts, a coupling member secured to each shaft, a flexible coupling member to which each of said first named coupling members is secured whereby universal movement between said rings is afforded, a sectional housing inclosing said flexible coupling member and including a telescoping cover section, bolts for connecting the flexible coupling member with one of said first named coupling members and passing through one of the sections of the housing, washers interposed between the flexible coupling member and the inner wall of the last named section of the housing, and a lock nut on the hub of the other of said coupling members to maintain the cover section of the housing in proper relation to the other section of the housing.

1,382,658. SOLE. AUGUSTINE FRANK LITTLEFIELD, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 18, 1919. Serial No. 291,101. 10 Claims. (Cl. 36—22.)

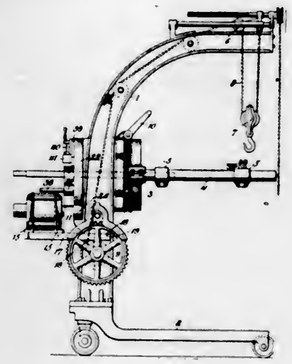


7. A sole for shoes comprising a body portion and a strip of reinforcing fabric secured to the marginal portion of the sole having a cord incorporated therein lip-distant from the edge of the strip.

1,382,659. RUNNING, STARTING, AND BURNING-IN ATTACHMENT FOR MOTOR-HANDLING MACHINES. CHARLES D. MCCONNELL and JOHN MARTIN BRYSON, Oskaloosa, Iowa. Filed Jan. 31, 1920. Serial No. 355,423. 10 Claims. (Cl. 29—1.)

1. A running, starting and burning-in attachment for automobile-engines handling machines comprising a suitable frame, an electric motor attached to the frame, a rotatable member carried by the frame for connection to the crank shaft of an automobile engine, gearing between the electric motor and the rotatable member, and readily

removable connections between the frame and engine handling machine, whereby the attachment may be used



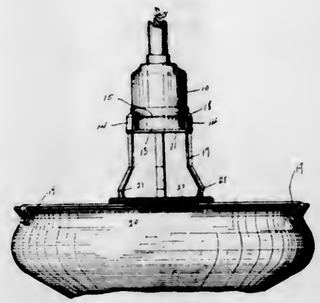
with the engine handling machine or separate therefrom at will.

1,382,660. MEASURING VESSEL. JOHN C. MCKALLIP, Houston, Tex. Original application filed Apr. 16, 1918, Serial No. 228,889. Divided and this application filed Feb. 13, 1919. Serial No. 276,782. 4 Claims. (Cl. 220—82.)

1. A measuring vessel of the character described including cap and base heads, slats extending between and supporting said heads in spaced relation, panels disposed between the slats and coöperating therewith to form the body wall of the vessel, connecting means between the slats and said heads extending freely through the heads and engaged with the ends of the slats for loosely connecting the slats with the heads, and means acting to circumferentially contract said wall for binding the slats and panels together.

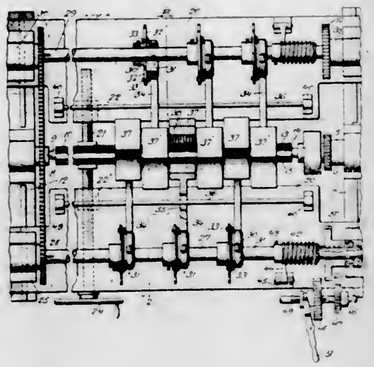
1,382,661. SHADE-HOLDER FOR LIGHTING-FIXTURES. EARLE C. MCKINNIE, Chicago, Ill., assignor to National X-Ray Reflector Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1919. Serial No. 318,850. 2 Claims. (Cl. 240—115.)

1. A bowl holder for lighting fixtures comprising in combination a collar adapted to fit over the socket receiving shell, and channels in the collar; a plurality of arms depending from, and loosely secured within the channels in the collar, said arms extending downwardly in a substantially vertical plane and thence outwardly to the edge of the bowl and terminating in hooks to receive the bowl, an outwardly projecting shoulder formed in each arm above the point where it flares outwardly; a ring to encircle the substantially vertical portions of the arms and



designed to be forced downwardly over the outwardly projecting shoulders, substantially as shown and described.

1,382,662. METHOD OF AND MEANS FOR CUTTING SCREW-THREADS. CLIFFORD P. MARYE, Chicago, Ill. Filed Dec. 17, 1917. Serial No. 207,397. 6 Claims. (Cl. 10—1.)



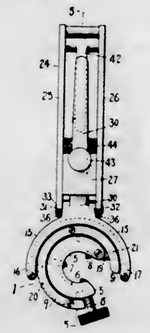
1. The method of producing screw threads in or on an object to be threaded which consists in providing a milling tool rotatable on a stationary axis; rotating said tool at a relatively high speed and coincidentally moving a plurality of objects to be threaded about the axis of the tool in contact therewith and relatively moving the tool and objects in an axial direction.

3. A machine for coincidentally milling threads in or on a plurality of objects to be threaded, having independent means for holding the objects; milling means for cutting the threads; independent means for relatively moving the milling means and objects laterally toward and from each other; means to rotate the milling means; means to independently move the objects about the axis of the milling means; and means to relatively move the objects and milling means axially to generate the threads in or on the objects.

1,382,663. EXTENSOMETER. FERDINAND F. METZGER, Philadelphia, Pa. Filed June 25, 1917. Serial No. 176,678. 12 Claims. (Cl. 33—147.)

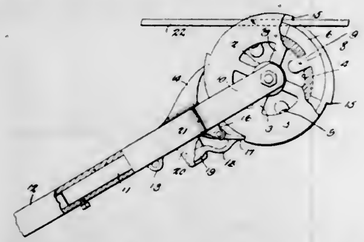
1. A device of the character described comprising, two gimbal joints comprising clamping means, a member car-

rying the gimbal joints in which the latter are yieldingly mounted in relation to each other, and means actuated



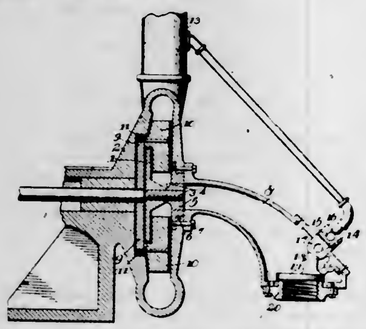
by the gimbal joints for indicating the variation in the distance between the gimbal joints.

1,382,664. TROLLEY-WHEEL. OTTO MOORE, Frankfort, Ind. Filed Mar. 26, 1919. Serial No. 285,264. 2 Claims. (Cl. 191—59.)



1. In a device of the class described, a harp; a trolley wheel journaled thereon and comprising separately removable tread sections; and a pawl and ratchet connection between the harp and the wheel and operating to hold the wheel against rotation in one direction, thereby to present the tread sections one at a time fixed for sliding engagement with a trolley wire, the pawl and ratchet mechanism permitting a rotation of the wheel in an opposite direction, thereby to present different tread sections for fixed sliding engagement with the wire.

1,382,665. CENTRIFUGAL PUMP. LAWRENCE A. MYERS, Visalia, Calif. Filed Oct. 7, 1918. Serial No. 257,204. 4 Claims. (Cl. 253—194.)



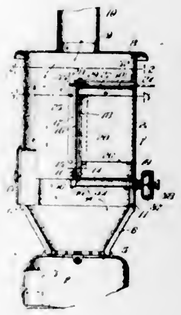
1. A centrifugal pump, comprising a pump case having a water inlet with a counterbore, a runner operating in the pump case and mounted on a shaft located co-axially of said inlet, said runner comprising a runner plate, a plurality of impeller blades with inside bosses offsetting the blades and leaving a channel adjacent to the runner plate; and means including a baffle plate supported over the water inlet occupying said channel and isolating the runner from the reduced pressure at the inlet, means spanning the water inlet for rigidly supporting the baffle plate; the support of said baffle plate comprising a portion occupying and secured in the counterbore.

1,382,666. WINDOW-FASTENER FOR AUTO-CURTAINS. FRANK B. NIHART, Bay Minette, Ala. Filed May 7, 1918. Serial No. 233,060. 1 Claim. (Cl. 296—145.)



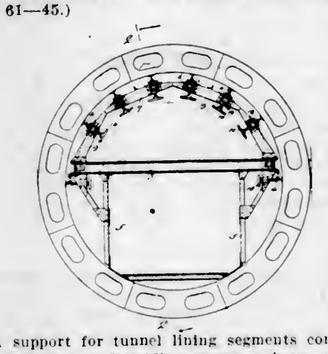
The herein described frame for securing a flexible window within an opening in a curtain, the same comprising a metal strip folded longitudinally and having one side flat, the other side formed into a strip lying adjacent the first side, an outstanding shoulder forming a rabbet with said strip, and a bowed portion beyond the shoulder whose free edge constitutes a gripping jaw, means for drawing this edge toward the flat side to grip the curtain, an arched strip disposed in said rabbet and adapted to overlie the window, and a fastening screw passing through this strip and the window, through the strip beneath, and engaging the flat side.

1,382,667. HEATING-STOVE. MICHAEL NORTH, Chicago, Ill. Filed Nov. 8, 1918. Serial No. 261,600. 5 Claims. (Cl. 126—77.)



5. In a stove, the combination of a casing having a fire box at the lower end and a draft outlet at the upper end, supporting means extending inwardly from the wall of the casing above the fire box, and a horizontal partition with vertical partitions thereabove supported by the said means for dividing the casing above the fire box into a plurality of vertical passageways, and adjustable means for affording circulation directly from the fire box to the draft opening or consecutively through said passageways.

1,382,668. MEANS FOR SUPPORTING TUNNEL-LINING SEGMENTS. JOHN F. O'ROURKE, New York, N. Y. Filed Nov. 8, 1919. Serial No. 336,729. 15 Claims. (Cl. 61—45.)

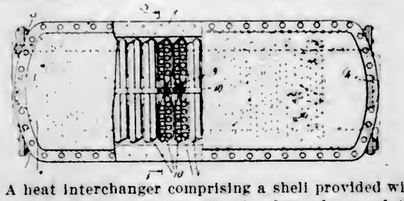


1. A support for tunnel lining segments comprising a frame having spaced guiding means, a beam movable in said guiding means, and means carried by said frame to retain said beam set against said segments.

1,382,669. PROCESS OF DEVULCANIZING RUBBER. WILLIAM BEACH PRATT, Wellesley, Mass., assignor to Rondout Rubber Company, East Dedham, Mass., a Corporation of New York. Filed Oct. 23, 1914, Serial No. 868,205. Renewed Dec. 1, 1920. Serial No. 427,656. 13 Claims. (Cl. 18—52.)

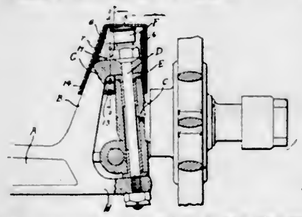
1. The herein described process of treating vulcanized rubber, which consists in subjecting such rubber to the action of oxalic acid.

1,382,670. HEAT-INTERCHANGER. JOSEPH PRICE, New York, N. Y., assignor to The Griscom Russell Company, a Corporation of Delaware. Filed Feb. 8, 1919. Serial No. 275,746. 7 Claims. (Cl. 257—235.)



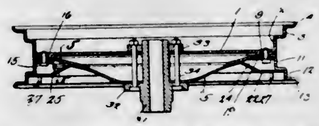
2. A heat interchanger comprising a shell provided with inlet and outlet connections for the flow of one of the heat interchange fluids, and a plurality of flat coils in two coil units arranged within the shell each coil being in staggered relation to the other coil of the same unit and the adjacent coil of the next unit in the direction of the flow of liquid therethrough said coils being provided with inlet and outlet connections for the flow of the other heat interchange fluid.

1,382,671. DUST AND DIRT CAP FOR FRONT-AXLE ENDS. CHESTER JOE PUGH, Ida, La. Filed May 17, 1920. Serial No. 382,060. 5 Claims. (Cl. 280—96.1.)



1. A dust protector arranged to house the upper end of the spindle bolt and the upper end of the forked terminal of the front steering knuckle of motor vehicles, comprising a housing, and a releasable catch arranged to detachably hold the housing in position against accidental displacement.

1,382,672. DISK WHEEL FOR VEHICLES. ROSCOE CONKLIN RACER, Richmond, Va. Filed Mar. 30, 1921. Serial No. 456,990. 4 Claims. (Cl. 301—63.)

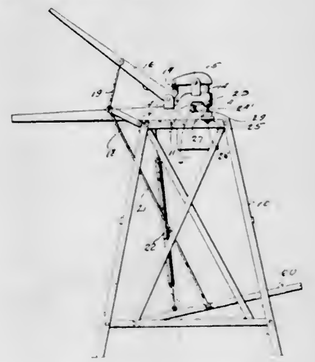


1. The combination with a disk having an annular stepped flange at its periphery, of a concavo-convex disk spaced at its center from the other disk, the two disks being welded together adjacent their peripheries, a ring removably mounted on the peripheral portion of the concavo-convex disk and having an annular stepped flange cooperating with the stepped flange on the disk to form an annular tire receiving channel, a locking ring carried by the flanged ring, means on the concavo-convex disk and cooperating with the locking ring for holding the flanged ring in position, means for securing the locking ring in position against relative movement, and a covering ring detachably connected to the concavo-convex disk for concealing the locking ring and that portion of the flanged ring engaged thereby.

1,382,673. PROCESS FOR THE PRODUCTION OF MEAT POWDER. WILLIAM FREDRICK REMUS, Rangatana, and ALEXANDER EDMUND MACREDIE and CHARLES FREDERICK CORK, Auckland, New Zealand. Filed Sept. 10, 1919. Serial No. 322,996. 1 Claim. (Cl. 99—5.)

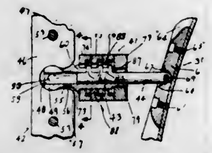
A process for the production of meat powder consisting in the subjection of raw cold meat in blocks to the drying action of a chamber in which a temperature of approximately 135° Fah. is maintained for a period of from 36 to 40 hours, subsequently subjecting such meat to a smoking action for a period of about eight hours and finally pulverizing the resultant product, substantially as specified.

1,382,674. PUNCHING-MACHINE. VERN RICH, Mount Vernon, S. D. Filed Dec. 18, 1919. Serial No. 345,817. 3 Claims. (Cl. 164—96.)



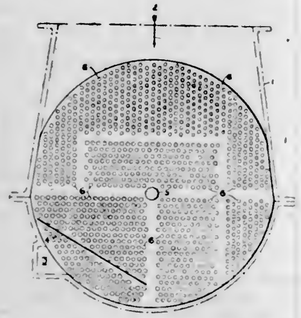
1. A punching machine comprising a stand having punching dies thereon, a laterally extending and longitudinally slotted arm carried by one of the dies, an angle plate adjustable longitudinally with respect to the slotted arm toward and away from the die and having one of its arms slotted, and a block having a vertical pin and slidably adjustable on the slotted arm of the angle plate.

1,382,675. SAFETY-LOCK. JOSEPH ROSZMANN, Covington, Ky. Filed July 19, 1920. Serial No. 397,282. 3 Claims. (Cl. 70—132.)



1. In a locking mechanism of the character described, the combination of a pair of elements in the form of a brake-lever and a release-lever, a tube-member and a stem-member pivoted to said respective elements and extending toward each other between said elements, said stem-member movable axially in said tube-member, said stem-member provided with locking parts, and said tube-member provided with a slot in which said locking parts move, and rotatable members between said elements about said tube-member and said stem-member, said rotatable members provided with locking portions coacting with said first-named locking parts.

1,382,676. CONDENSER. ARTHUR EDWIN LEIGH SCANES, Ashton-on-Mersey, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 10, 1920. Serial No. 372,942. 3 Claims. (Cl. 257—24.)



1. A condenser of the surface type having inlet means, outlet means and water tubes, a group of said tubes being arranged in lines parallel to the flow of steam through the inlet and at the sides thereof and other group or groups of tubes arranged in parallel lines perpendicular to the lines of the first group.

1,382,677. CULINARY IMPLEMENT. FRITZ SCHMITZ, Brooklyn, N. Y., assignor to Jaburg Brothers, New York, N. Y., a Firm of New York. Filed Dec. 1, 1920. Serial No. 427,513. 4 Claims. (Cl. 107—51.)



1. A culinary article of the kind described comprising a roller consisting of a series of laterally spaced cutting disks and spaced longitudinally extending bars associated with said disks in radial relation to the axis of the roller and having their outer longitudinal edges disposed in the plane of the peripheral faces of the disks, and die members arranged between the longitudinal bars and supported by said disks.

1,382,678. FELT PAD. WILLIAM M. SCHOLL, Chicago, Ill. Filed Aug. 28, 1916. Serial No. 117,210. 1 Claim. (Cl. 128—153.



A pad for foot treatment, comprising a body of felt without seams or interruptions, of ovate shape in plan and smooth curvatures on its crown surface, said body having a recess in its under surface and an opening from said recess to the crown surface, there being a tapering minor recess intervening between the inner edges of said opening and the major recess.

1,382,679. WATER-BOTTLE STOPPER. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Aug. 27, 1915. Serial No. 47,606. 1 Claim. (Cl. 150—8.)



A metal stopper having a rubber gasket adherent to it and of such firmness as to be free from substantial deformation in use.

1,382,680. RELOADING MECHANISM FOR MAGAZINE-FIREARMS. ELBERT H. SEARLE, Bridgeport, Conn. Original application filed July 22, 1918, Serial No. 245,981. Divided and this application filed May 31, 1919. Serial No. 301,036. 10 Claims. (Cl. 42—3.)



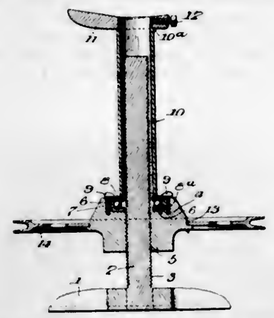
1. In a fire-arm having a reciprocating breech-closure, an extractor carried by said breech-closure, a rod extending rearwardly from said extractor and drawing rearwardly thereon, and a longitudinally reacting spring on the breech-closure pressing rearwardly upon said rod and thereby holding the extractor to its duty.

1,382,681. TOOTHBRUSH. SAMUEL SEGAL, New York, N. Y. Filed May 15, 1920. Serial No. 381,654. 2 Claims. (Cl. 15—39.)



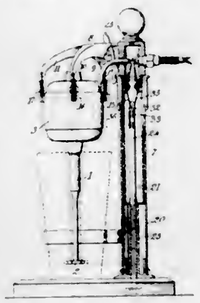
1. A tooth brush having a head with separated masses of long flexible bristles fastened to the head thereof and masses of shorter and appreciably more rigid bristles intermediate the masses of long bristles and also fastened to the head thereof, said long bristles being adapted to perform a cleansing operation on the teeth when ordinary pressure is applied to the brush and being also adapted to be bent over when greater pressure is applied to the brush to permit the short and rigid bristles to scrape the teeth.

1,382,682. JACK. JONATHAN C. SEYMOUR and ANGUS MCKELLAR, Salt Lake City, Utah. Filed May 7, 1920. Serial No. 379,503. 11 Claims. (Cl. 254—98.)



1. A jack comprising a base, a primary supporting stand thereon, a movable member adjustably mounted on said standard and having an annular raceway, antifriction units for said raceway, power applying means adapted to coöperate with said movable member, and a supplemental standard mounted for coöperation with said antifriction units and freely rotatable thereon and extending directly therefrom as a rigid spacing member to engage work.

1,382,683. DRINK-MIXER. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,106. 11 Claims. (Cl. 259—135.)



1. A drink-mixer, comprising an elongated stirrer, and a relatively free suspension for said stirrer, adapted to easily yield under the reactions to the rotation of said stirrer in a liquid mixture, in such manner and that the axis of said rotary stirrer may revolve, and thereby generate the surface of a cone or cylinder.

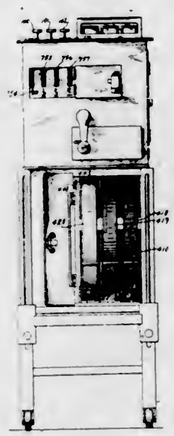
1,382,684. NOZZLE. EDMUND W. SHIMPER, Irvington, N. J. Filed Aug. 15, 1918. Serial No. 249,928. 2 Claims. (Cl. 299—140.)

1. A mixing nozzle of the character and for the purposes stated comprising a pair of separably connected tubular elements, one of said elements being provided with a discharge-end, and the other element being provided with means for its attachment to a hose or the like for admitting a fluid, into and through said connected tubular elements, an internally and longitudinally disposed tube within and concentric with one of said tubular elements, said tube being open at both ends, one of said open ends located directly at the discharge-end of said tubular element, said tube having its other end-portion extending into and terminating in the other tubular element, said tube being adapted to receive some of the fluid admitted into the connected tubular elements, said last-



mentioned tubular element being provided in its side with an opening, an inlet-tube mounted in said opening, said inlet-tube having a bent portion extending into and terminating in said internally disposed tube at a point substantially back of the discharge opening thereof for carrying another fluid into said internally disposed tube, substantially as and for the purposes set forth.

1,382,685. TICKET-PRINTING MACHINE. FRANCESCO SKERL, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed May 15, 1916. Serial No. 97,584. 29 Claims. (Cl. 235—3.)



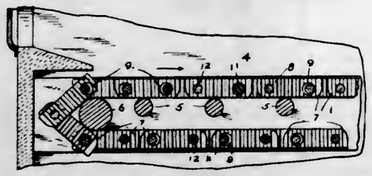
6. In a machine of the class described, the combination of a totalizer element, a plurality of totalizer actuators common thereto having an invariable extent of movement, means for independently adjusting the actuators to vary their effective lengths, means for retaining the actuators in adjusted position during successive operations, and means for establishing operative relationship between the totalizer element and any desired actuator.

16. In a machine of the class described, the combination of a driving mechanism, a totalizer, a totalizer actuator, means for connecting the totalizer with the actuator, an operating device for said means adjustable to effect connection of the totalizer and actuator at different points in the movement of the driving mechanism, and means invariably disconnecting the totalizer from the actuator at the same point in the movement of the driving mechanism.

29. In a machine of the class described, a totalizer, actuators therefor adjustable in position for varying the characteristic amount thereof, driving means for said actuators, a control member for said driving means acting at a plurality of places to limit the transmission of said driving means comprising a member positioned to

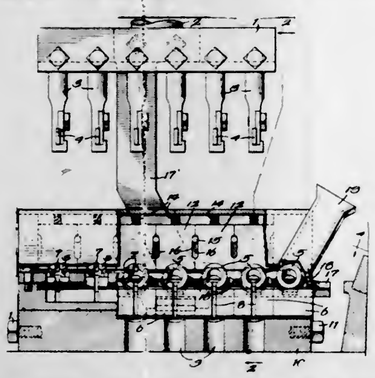
move about the center of the actuator, manipulative devices and connections between said control member and the same, a power transmitting member on said control member, and means moving said control member to position said power transmitting member whereby power is transmitted to said actuator.

1,382,686. CHAIN GRATE. SOLOMON S. SLAUGHAN, Homestead Park, Pa. Filed Apr. 20, 1920. Serial No. 375,256. 2 Claims. (Cl. 110—40.)



1. An endless chain grate comprising rows of links, each link of a row provided near one end with laterally projecting tapered trunnions larger in diameter at their outer than at their inner ends and near its other end with a transverse perforation gradually decreasing in diameter from its center toward each end thereof, the trunnions of one link extending into the perforations of a pair of links of adjacent rows of links for connecting the links together.

1,382,687. PUNCHING-MACHINE. ARTHUR SPEAR, Chicago, Ill. Filed Sept. 16, 1918. Serial No. 254,289. 18 Claims. (Cl. 10—72.)



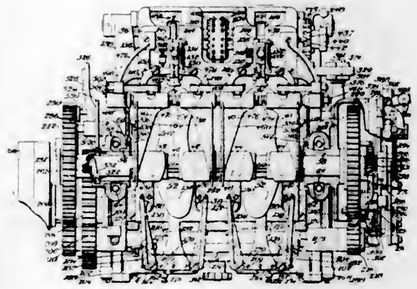
1. A punching machine including a plurality of punches and two object engaging members for holding a plurality of objects therebetween, one member serving to maintain the objects in position while being operated upon by the punches and one member being formed of relatively movable sections movable toward and from the other member.

1,382,688. TUNING-SLIDE FOR TRUMPETS AND THE LIKE. EDWARD BENJAMIN STEINDORFF, Stillwater, Minn. Filed Dec. 6, 1920. Serial No. 428,503. 2 Claims. (Cl. 84—394.)



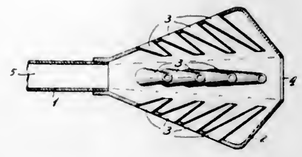
1. A wind instrument having a tuning slide and guide tubes in which the tuning slide works, a rod fixed to the tuning slide and paralleling a portion thereof in one of the guide tubes, a bearing stud projecting from the said guide tube, a tubular stop member freely slidable through the said bearing stud and having a threaded bore receiving the threaded adjusting rod, and members at opposite ends of the said tubular stop, coöperating with the bearing stud to limit the movements of the tuning slide as described.

1,382,689. SKIVING-MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 11, 1917. Serial No. 174,027. 70 Claims. (Cl. 12—17.)



1. A shoe blank skiving machine having, in combination, a skiving knife, a pressure roll, a die roll having a matrix, means to rotate said rolls to feed a blank against the skiving knife, and means to relatively move the blank and matrix in the direction of feed during the skiving operation.

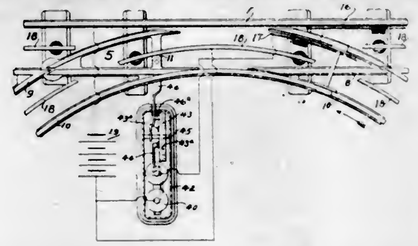
1,382,690. APPARATUS FOR SILENCING AND EXHAUSTING GASES AND METHOD THEREFOR. CHARLES LAWRENCE STOKES, New York, N. Y. Filed Oct. 27, 1917. Serial No. 198,802. 12 Claims. (Cl. 137—160.)



3. The combination as claimed in claim 1, wherein the said casing is of conical form and said pipe communicates with the smaller end of the casing, the air inlet tubes extending into said casing from all parts of the conical wall thereof, the wall of the casing remote from said pipe being conical and provided with an aperture which is of at least the same size as the interior diameter of said pipe.

1,382,691. ELECTRIC TOY. NICHOLAS THEOFILOS, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 375,041. 2 Claims. (Cl. 104—149.)

1. In a toy, three track loops arranged within each other, a switch at the junction of the two inner loops, a pair of electromagnets, a rotatable cam mechanism operatively connected to throw said switch alternately back



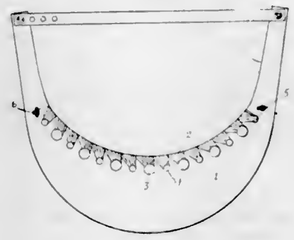
and forth, and elements on the armature of said magnets for rotating said cam mechanism.

1,382,692. PHONOGRAPH. WALTER W. THORPE, Pelham, N. Y., assignor to Electric Phonograph Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 12, 1920. Serial No. 423,069. 2 Claims. (Cl. 274—23.)



1. In a phonograph, a sound reproducing device, an amplifying horn, a connection between said parts comprising a rotatable hollow knuckle depending from said horn, and a tubular connection leading from said reproducer to said knuckle and including a hinged joint to permit the reproducer to be lifted up and down and a rotatable connection between said hinged joint and said knuckle.

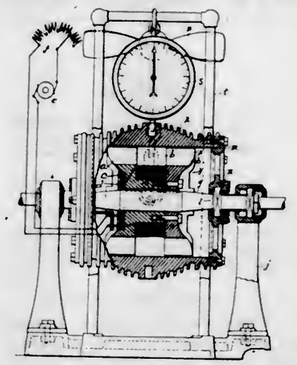
1,382,693. EYE-SHADE. GEORGE H. TILESTON, Kansas City, Mo. Filed Apr. 13, 1920. Serial No. 373,574. 2 Claims. (Cl. 2—149.)



1. The combination with an eye-shade having ventilation holes, of a strip of flexible material passing alternately through said holes and over the edge of the shade which fits adjacent the forehead, and means for securing the ends of the said strip to the shade.

1,382,694. DYNAMOMETER. GEORGE S. TOWAR, Detroit, Mich. Filed July 13, 1917. Serial No. 180,304. 4 Claims. (Cl. 265—24.)

1. The combination constituting a dynamometer of a hollow integral cylinder of magnetic metal adapted to turn about its axis and provided with means for measuring the torque exerted thereon and a field magnet concentric with said armature and adapted to rotate in the same, and means for connecting said field magnet with a source of power to rotate said field magnet, said armature



being provided with cooling ribs, substantially as and for the purpose described.

1,382,695. GAME APPARATUS. CHARLES W. VAN VLEET, Kingston, N. Y., assignor of one-third to Robert C. Riddick, Kingston, N. Y., and one-third to Charlotte A. Maxwell, Saugerties, N. Y. Filed Jan. 5, 1920. Serial No. 349,409. 3 Claims. (Cl. 46—56.)

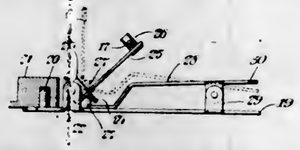


1. A game apparatus comprising a board having a course indicated on its surface by a succession of spots of various designations, said course leading deviously from a starting point to a goal, a position indicating device, a series of game-pieces severally movable along said course and upon certain spots as determined by the manipulation of the indicating device, and a projectile shooting device pivotally mounted adjacent one side of said board and adapted to be manipulated to shoot a projectile toward a game-piece located on said course.

1,382,696. PROJECTILE-THROWING DEVICE FOR GAME APPARATUS. CHARLES W. VAN VLEET, Kingston, N. Y., assignor of one-third to Robert C. Riddick, Kingston, N. Y., and one-third to Charlotte A. Maxwell, Saugerties, N. Y. Original application filed Jan. 5, 1920, Serial No. 349,409. Divided and this application filed May 22, 1920. Serial No. 383,382. 1 Claim. (Cl. 124—1.)

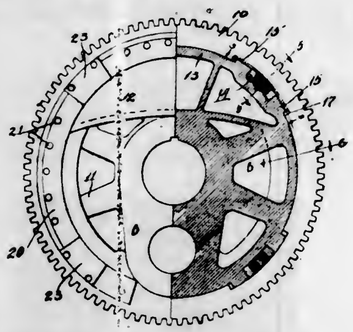
In a projectile throwing device for game apparatus, a base, an upwardly-extending swinging arm pivotally supported at its lower end on said base, a projectile holder on the upper end of the arm, a tail-piece depending angularly from said arm adjacent the pivot of the latter, and a trigger lever fulcrumed on said base at a point in spaced

relation to the pivoted end of the swinging arm, the longer member of said lever extending toward the pivoted end of the arm and terminating in an upstanding angular portion in frictional contact with the lower surface of



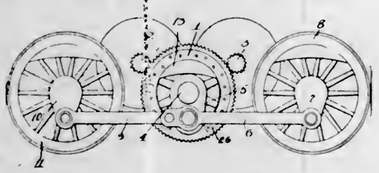
the said tail-piece, and the shorter member of the lever constituting a finger piece by the actuation of which the longer member imparts an upward swinging movement to the tail-piece and the arm.

1,382,697. TRANSMISSION-GEAR. JAMES MILTON WAUGH, Chicago, Ill. Filed Oct. 2, 1919. Serial No. 327,960. 8 Claims. (Cl. 74—29.)



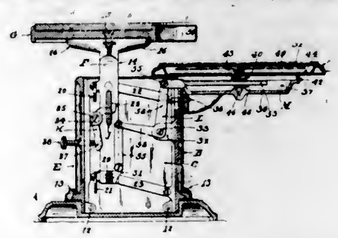
1. A transmission gear comprising a ring gear, a wheel member mounted therein and provided with pockets, resilient plates disposed transversely in the pockets, follower blocks associated therewith and movable with said plates in said pockets, abutments on the ends of said pockets to resist retractive movements of the follower blocks, and abutments on said ring gear contacting said follower blocks to thrust the same toward one another and stress said resilient members when a drive is transmitted by the transmission gear.

1,382,698. RESILIENT TRANSMISSION-GEAR. JAMES MILTON WAUGH, Chicago, Ill. Filed Oct. 10, 1919. Serial No. 329,709. 1 Claim. (Cl. 74—29.)



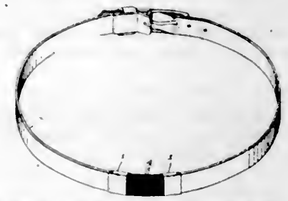
A power transmission element comprising a wheel, a plurality of pockets therein, a rim movably mounted on said wheel, abutments on said wheel and rim adapted to contact one another in extreme positions of adjustment to limit the extent of lost motion between the wheel and rim, a plurality of groups of resilient friction plates mounted within said wheel pockets to resist displacement of said wheel and rim relative to one another, and projections on said rim adapted to project between the groups of friction plates in said pockets to afford a yieldable driving connection between said wheel and rim.

1,382,699. WEIGHING-SCALE. MATHIAS J. WEBER, Chicago, Ill., assignor to Continental Scale Works, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1919. Serial No. 346,291. 6 Claims. (Cl. 265—68.)
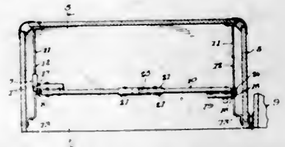


1. In weighing scales of the type set forth, the combination, of a casing, a platform above said casing, spring-actuated means for supporting said platform and permitting vertical movement thereof, a housing extending horizontally from the front of said casing, a vertically disposed pinion shaft rotatably mounted in said housing, a graduated dial plate mounted on said housing, an index hand mounted on said pinion shaft, mechanism for transmitting vertical movement of said platform to said index hand, means for adjusting the tension of the spring-actuated mechanism, means for preventing access to said adjusting mechanism, and means for raising and lowering said platform and associated mechanism for changing the position of the index hand with reference to the graduations on the dial plate.

1,382,700. FLEXIBLE MEMBER FOR BELTS. WILLIAM J. WHALEN, Cleveland, Ohio. Filed July 31, 1919. Serial No. 314,507. 4 Claims. (Cl. 241—8.)



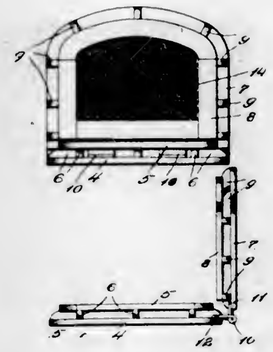
1. In combination with a belt for personal wear, clamping members, means in said clamping members adapted to removably retain said belt in said clamping means, coiled springs interconnecting said clamping members, a wedge-shaped member on said clamping member adapted to engage between the convolutions of said coiled springs, and a clip adapted to retain said coiled springs in engagement with said wedge-shaped member.

1,382,701. RETAINER-BAR FOR TRUNKS. GEORGE HENRY WHEARY, Racine, Wis. Filed June 10, 1919. Serial No. 303,098. 10 Claims. (Cl. 190—36.)



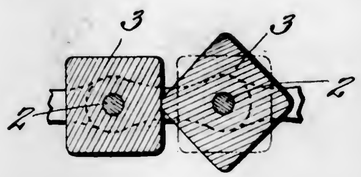
1. A retainer bar, comprising a bar member having a yielding bolt member on one side end which is automatically moved to unlocked position by a swinging movement of the bar member and having a manually operated yielding bolt member on its opposite side end which locks the bar against movement in one direction, said bar being adjustable in one direction without a swinging movement.

1,382,702. VENTILATED UPHOLSTERED FURNITURE. FRANK ORMOND WHITE, Belleville, Ill. Filed July 12, 1919. Serial No. 310,454. 2 Claims. (Cl. 155—5.)



1. In furniture, a base plate and a seat element, said base plate and seat element secured in spaced relationship by means of rigid supports, said seat element located concentric the base plate and of smaller area than said base plate, a back plate and a back element secured in concentric constant spaced relationship by means of rigid supports, said back element of smaller area than said back plate element, said seat element and back element secured in operative relationship.

1,382,703. LINK CHAIN. ERNEST F. WIEDERHOLDT, St. Louis, Mo. Filed July 15, 1920. Serial No. 396,608. 4 Claims. (Cl. 74—64.)



1. A chain composed of links pivotally connected together by pintle bars, and substantially rectangular spacer blocks mounted on said pintle bars and capable of rotatable adjustment thereon, whereby new wearing faces may be presented for action.

1,382,704. DISPLAY-CABINET. FRANK WOLF, New York, N. Y. Filed Apr. 4, 1919. Serial No. 287,411. 4 Claims. (Cl. 211—28.)

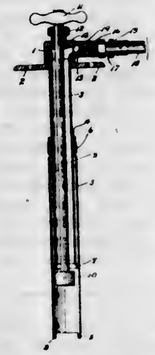
1. In a display cabinet, an upright back, a plurality of stepped shelves disposed forwardly of said back adapted to support cards, retaining means at the forward edge of said shelves adapted to retain the lower corners only of the cards, and hold the cards uprightly and exposed upon said shelves, and means on said shelves adapted to support said cards at spaced points.

4. In a display cabinet, an upright back, side walls, and a central partition extending forwardly and at right angles to said back, a plurality of stepped shelves disposed forwardly of said back at each side of said partition, the lowermost shelf being forwardly of the uppermost shelf, spaced-apart supports arranged upon the shelves and having rearwardly and downwardly inclined upper edges adapted to support cards at a rearward inclination, and retaining means carried by said side walls projecting over the forward edge portion of the shelves to engage and maintain



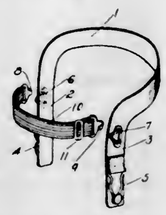
cards on the supports of the shelves and with their outer faces unobstructed.

1,382,705. GREASE-GUN FOR BARRELS AND THE LIKE. A J WOOD, Grand Rapids, Mich., assignor to Bennett Injector Company, Muskegon, Mich., a Corporation of Delaware. Filed Feb. 24, 1920. Serial No. 360,864. 6 Claims. (Cl. 221—83.)



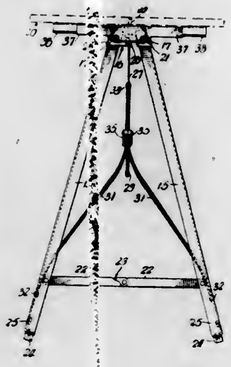
4. In a device of the character described, a head having a passage therethrough, a spring actuated valve in said passage normally closing the same, a tube connected to and depending below the head, a piston rod located lengthwise of the tube, a piston attached to the lower end of the rod, and a handle at the upper end of the rod above the head, said rod passing through the head and being of such length that the piston passes below the lower end of the tube in lowermost position, and a larger tube extending below the lower end of the first tube, substantially as described.

1,382,706. HOSE-SUPPORTER. CLAIR G. WRIGHT, Kansas City, Mo. Filed July 22, 1920. Serial No. 398,209. 3 Claims. (Cl. 241—6.)



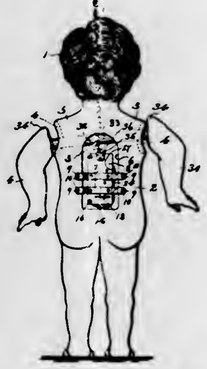
1. A garter comprising a non-elastic major portion having depending sides, the ends of which are adapted for engagement with the hose, and a removable elastic connecting the opposite sides.

1,382,707. FOLDING STAND. WILLIS G. YOUNG, Chicago, Ill. Filed July 2, 1920. Serial No. 393,596. 8 Claims. (Cl. 45—11.)



1. A folding stand comprising, legs arranged in pairs, end brackets, one for each pair of legs, said legs being pivoted to the associated bracket so as to swing in the plane thereof, said brackets having stop shoulders to limit the outward opening movement of said legs, folding brace bars connecting the bottom ends of each pair of legs together, upper extension links pivoted to each other at one end and to said brackets at their other ends, lower brace links arranged in pairs and pivotally connected together at their top ends, there being a pair of such links associated with each pair of legs, the links of each pair of brace links being connected to each of the associated legs and straddling and crossing one of said extension links, and means providing an interlocking connection between said extension links and said brace links.

1,382,708. MECHANICAL DOLL. DAVID ZAIDEN, East Orange, N. J. Filed Dec. 14, 1920. Serial No. 430,676. 6 Claims. (Cl. 46—40.)



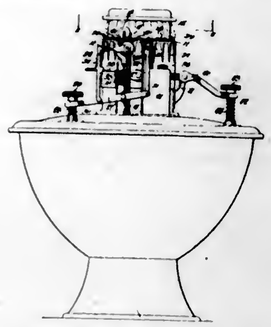
1. In a doll of the kind described, a body having a chambered interior and provided at opposite sides adjacent to the shoulder portions thereof with openings, a transverse bar within said body having its respective ends projecting through said side openings, arm portions carried by the ends of said bar, a pivoted transversely oscillatable lever upon the free end of which said bar is supported, and a spring motor mechanism within said body for actuating the oscillatable movement of said lever and said bar carried by the latter.

1,382,709. HANGER-BRACKET. FELIX P. ZALEVSKI and LAWRENCE P. HAYSHKA, Preston, Ontario, Canada. Filed July 16, 1920. Serial No. 396,866. 1 Claim. (Cl. 68—34.)



In a device of the class described, a vertical member, a horizontal rod extending from the vertical member, a strut secured to said vertical member and supporting said horizontal rod, a trolley having limited travel on said rod, means on the trolley for suspending an article therefrom, a three-cornered body pivotally connected at one of its corners to said strut, a connecting rod pivotally connected to said three-cornered body at another corner thereof, and pivotally connected to said trolley, a lever fulcrumed to said vertical member, a connecting rod pivotally connected to said lever and pivotally connected to the three-cornered body at its other corner.
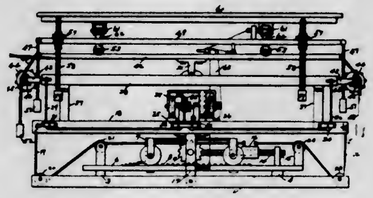
1,382,710. LAMP-OPERATING MECHANISM. ARNOLD H. BAESEMANN, Rib Falls, Wis. Filed Aug. 1, 1919. Serial No. 314,608. 6 Claims. (Cl. 67—10.1.)



1. The combination with a burner, of a receptacle for volatile fuel including a neck portion, a wick slidable in said neck portion and movable therefrom to a position adapted to transmit flame to the burner, sparking mechanism including a movable sparking member yieldingly urged in direction of sparking movement, means for moving the volatile fuel wick from said receptacle neck, means actuated by said last named means for moving said sparking member in opposition to its yielding member, and means for releasing said sparking member near the end of said wick movement.

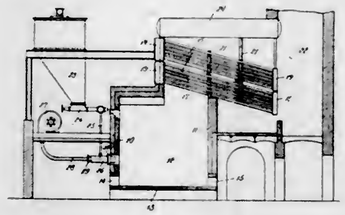
1,382,711. SELF-LEVELING APPARATUS. JOSEPH BAKOVICH, Hermonie, Pa. Filed Nov. 6, 1920. Serial No. 422,201. 2 Claims. (Cl. 114—195.)

1. A leveling mechanism comprising a base, an intermediate frame pivotally connected with the base, a platform pivotally connected with the frame, a gear mechanism carried by the base and having flexible connections with the ends of the frame, a gear mechanism carried by the frame and having flexible connections with the ends



of the platform, said gear mechanisms disposed at right angles to each other, and shiftable carriages carried by the base and frame for operating the gear mechanism to balance the frame and platform.

1,382,712. BURNING PULVERIZED FUEL. HENRY G. BARNHURST, Allentown, Pa., assignor to Fuller Engineering Company, a Corporation of Pennsylvania. Filed June 26, 1918. Serial No. 242,099. 2 Claims. (Cl. 110—28.)



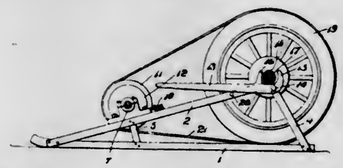
1. The method of utilizing pulverized fuel in a stationary boiler having a furnace lined with refractory material which consists in introducing pulverized fuel and air into the furnace and igniting the mixture thereof within the furnace, maintaining the supply of fuel and air to the furnace substantially continuously to maintain continuous combustion within the furnace, and causing the deflagrating fuel and the gases of combustion to flow through the furnace at low velocity such that at the point in the travel of the gases through the furnace at which the highest temperature is reached the velocity will be substantially seven feet per second, to substantially avoid erosion of the refractory walls of the furnace and insure that combustion of the fuel will be complete within the furnace.

1,382,713. PRINTING-PLATE MATRIX AND METHOD OF MAKING SAME. HARRY M. BLAETZ, Philadelphia, Pa., assignor to The Conley Foil Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 6, 1919. Serial No. 336,095. Renewed Apr. 26, 1921. Serial No. 464,570. 9 Claims. (Cl. 101—401.1.)



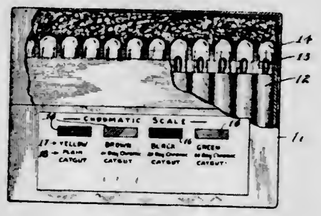
1. A matrix for making printing plates comprising a backing composed of a relatively thick sheet of ductile easily moldable metal and a matrix face mechanically united with said backing and comprising an exceedingly thin film of a relatively hard non-oxidizing metal.

1,382,714. MOTOR-VEHICLE-POWER-PLANT ELEVATING APPLIANCE. LEROY H. BUCHANAN, Wisconsin Soldiers Home, Wis. Filed Sept. 17, 1920. Serial No. 410,940. 3 Claims. (Cl. 254—120.)



1. A device of the character described, comprising a supporting frame having spaced apart sides including each a horizontal portion, a lever pivotally mounted on each side of the frame at one end and at the upper portion thereof at the front end of said horizontal portion, and a hook and a lug projecting from the same at one end of each lever and in the same direction, said hook and lug being spaced apart and located at opposite sides of the pivot of the lever, substantially as described.

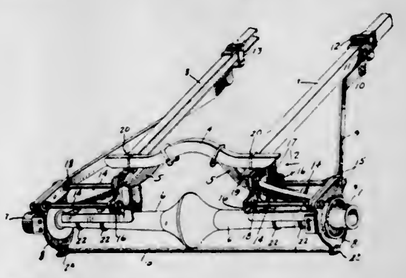
1,382,715. SURGICAL SUTURE. CHARLES T. DAVIS, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,570. 9 Claims. (Cl. 167—7.)



1. The combination of a surgical suture and a coal tar preparation rendering the same antiseptic and dyeing the same a defining color.

5. The combination with a systematically arranged series of sutures differing in characteristics, of means carried by said sutures for identifying a characteristic of each suture, said means including a plurality of dyes having antiseptic qualities and differing in color, each dye being applied to one of the sutures to render the same antiseptic and impart thereto a characteristic color as compared with the other sutures of the series.

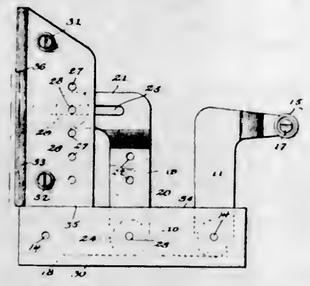
1,382,716. COUPLING FOR RIGIDLY CONNECTING REAR AXLE AND FRAME STRUCTURES OF AUTOMOBILES. HERBERT O. DAY, St. Paul, Minn., assignor, by mesne assignments, to Wood-Craft Company, St. Paul, Minn., a Corporation of Minnesota. Filed Feb. 28, 1919. Serial No. 279,736. 8 Claims. (Cl. 180—16.)



2. The combination with a frame and rear axle casing of a motor propelled vehicle, of couplings rigidly connect-

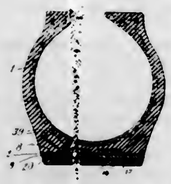
ing the two, sleeve-equipped anchoring plates rigidly connected to said couplings, the said anchoring plates being independently adjustable laterally in respect to the corresponding couplings.

1,382,717. MEASURING DEVICE. JOSEPH DUPLESSIE, Providence, R. I. Filed Nov. 15, 1919. Serial No. 338,162. 5 Claims. (Cl. 33—174.)



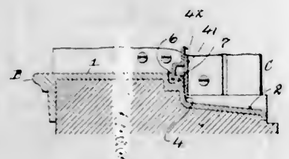
1. In combination with a supporting base member having a groove in the bottom face thereof, a bracket pivoted to said base, a sine bar having sine buttons and a beveled edge pivoted to said bracket, means for holding the bracket in different positions relative to said base and means for holding the sine bar in different positions relative to the bracket.

1,382,718. AUTOMOBILE-TIRE. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 8, 1918. Serial No. 257,330. 33 Claims. (Cl. 152—18.)



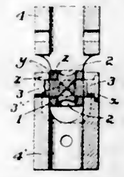
10. The pneumatic automobile tire comprising adjacent the tread portion of the tire layers of vulcanized rubber and interposed incorporated puncture resisting elements, each comprising fibrous material carrying cured phenolic condensation cementing and stiffening material.

1,382,719. SILL FOR METAL WINDOW-FRAMES. IRVING H. ELLIOTT, New York, N. Y., assignor to Harry E. Campbell, Mount Vernon, N. Y. Original application filed July 1, 1919, Serial No. 307,945. Divided and this application filed Feb. 12, 1920. Serial No. 358,112. 1 Claim. (Cl. 189—72.)



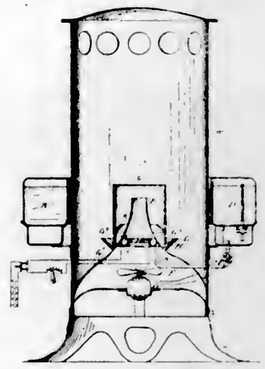
A metal window sill, comprising integrally an inner flat portion having a longitudinal groove near its outer edge, a vertical portion outside of said groove, and an inclined portion outside of said vertical portion, the upper edge of said vertical portion being below the plane of said flat portion, in combination with a sash having its lower rail formed of an inner plate adapted to enter said groove and an outer plate united to said inner plate, bearing against the outer face of said vertical portion of said sill and extending below said groove when said sash is in closed position.

1,382,720. FLEXIBLE SHAFT-COUPLING. WILLIAM R. FOX and AUSTIN A. RIDDELL, Jackson, Mich.; said Riddell assignor to said Fox. Filed Dec. 10, 1919. Serial No. 343,771. 18 Claims. (Cl. 64—102.)



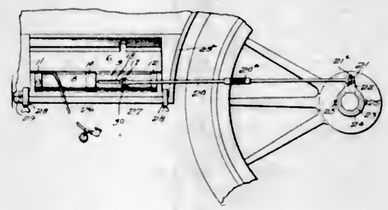
18. The herein-described process consisting in placing the forks in relation to the connecting block, then inserting the pivot pins through the fork into the block and affixing in place by brazing or welding and then hardening the contacting wearing surfaces of the parts, substantially as described.

1,382,721. METHOD AND MEANS FOR HEATING BY CARBON AND HYDROCARBON OILS. FREDERICK E. GERSTENBERGER, South Euclid, Ohio. Filed Jan. 12, 1918. Serial No. 211,541. 5 Claims. (Cl. 158—28.)



4. In a domestic oil heater, a hollow casing, provided with air openings at the top and bottom, a fuel admission pipe having a funnel-shaped base and having a vertical central opening and marginal openings at the wider end for air entrance to the casing, an expanding chamber into the upper end of which fuel oil is discharged, an annular drip-trough in said chamber, in which unvaporized oil is deposited, said chamber provided with perforations adjacent to its lower end, through which heavier gases escape, and a deflector for flames issuing from said openings, said chamber also provided with perforations at a higher level for the escape of lighter gases, a container for fuel oil, a supply pipe for oil leading from said container, a motor-driven fan, a valve for controlling the supply of oil through said oil supply pipe, and an electric circuit for said motor, said circuit opened and closed by the action of said valve.

1,382,722. POWER-DRIVEN TIRE-PUMP. JOHN G. GRAHAM, Tomah, Wis. Filed June 23, 1920. Serial No. 391,108. 3 Claims. (Cl. 230—27.)



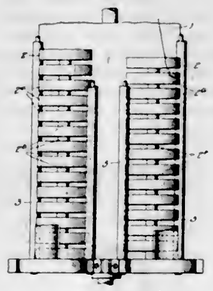
1. A device of the character described comprising a box like casing having an open top and open front side, a cover of L shape in cross section adapted to close said top and hinged along the rear edge of said box, a pump disposed longitudinally within the casing adjacent the open front side thereof and comprising an element projecting laterally beyond said casing, a crank adapted to be secured to the driving wheel of an automobile and a connecting rod extending between said crank and the laterally extending element of the pump, said casing having a flat bottom adapted to rest upon the running board of an automobile and means for clamping said casing to the running board of an automobile.

1,382,723. WIRE ROPE. RICHARD DUANE GREEN, Trenton, N. J., assignor to John A. Roeblings Sons Company, a Corporation of New Jersey. Filed Aug. 26, 1919. Serial No. 319,923. 3 Claims. (Cl. 28—5.)



1. A wire rope having a core comprising a plurality of disks, substantially as described.

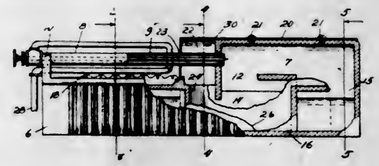
1,382,724. IRONING-MACHINE. WILLIAM SHIPLEY GREY, San Francisco, Calif., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill., a Corporation of New York. Filed May 14, 1920. Serial No. 381,280. 8 Claims. (Cl. 68—9.)



1. In an ironing machine, an ironing cylinder, and a roller coacting therewith and subdivided into cylindrical sections, each of which is adapted to independently develop ironing pressure toward the cylinder and to yield independently of the others from the cylinder.

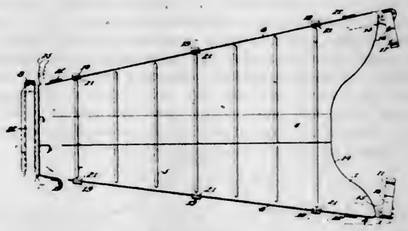
1,382,725. OIL-BURNER. JOHN F. HARMAN, Kansas City, Kans. Filed Mar. 2, 1920. Serial No. 362,812. 2 Claims. (Cl. 158—65.)

1. An oil burner comprising a casing providing a fuel receiving chamber and having flame orifices arranged to provide a flame zone surrounding said chamber, a vapor generating tube passing through said flame zone and feeding into said chamber, and a second casing interposed



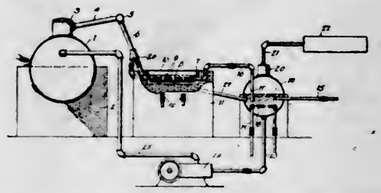
between said orifices and said chamber and surrounding a portion of the generating tube adjacent to said chamber for providing an air chamber adapted to prevent overheating of the vapor being fed into said fuel receiving chamber.

1,382,726. GARMENT-PRESSER. EDWARD AUSTIN HEBB, Philadelphia, Pa. Filed Oct. 29, 1920. Serial No. 420,341. 8 Claims. (Cl. 100—57.)



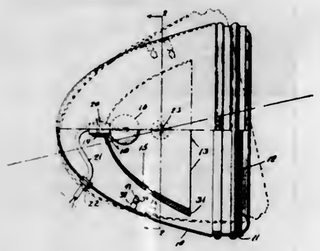
6. A garment presser comprising presser members, and a heating and moistening member arranged between the presser members, said heating and pressing member consisting of an electrical resistance coil, sheets of asbestos housing said coil, and a moisture-retaining wrapper around said sheets.

1,382,727. METHOD OF AND APPARATUS FOR TREATING PETROLEUM. DANIEL W. HOGE, Chicago, Ill., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 25, 1916. Serial No. 116,901. 4 Claims. (Cl. 196—25.)



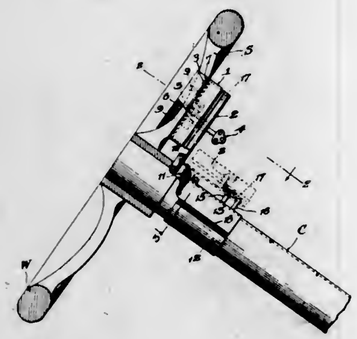
1. A method of treating petroleum which comprises, first, subjecting petroleum from which free gasolene has been removed to heat in a still to vaporize the petroleum; second, conducting the vapor to a cracking apparatus and there subjecting the vapor to a temperature sufficient to break down the high boiling point compounds into compounds having relatively low boiling points; third, conducting the highly heated cracked vapor from the cracking apparatus to a separate receptacle containing a bath of petroleum containing free gasolene and passing said vapor through said bath to heat the same and release the free gasolene therein; fourth, withdrawing the vapor and free gasolene from said receptacle and condensing the same; and fifth, conducting the residuum of said bath to said still.

1,382,728. SEARCHLIGHT. RALPH H. HOLMAN, Stoneham, and JOHN MACGREGOR, Roslindale, Mass. Filed July 5, 1917. Serial No. 178,537. 2 Claims. (Cl. 240—41.)



1. In combination, in an automobile headlight, an outer shell fixed to the automobile, a reflector inclosed thereby, and a light emitting front plate in the outer shell, all arranged to direct rays of light downwardly onto the roadbed, means pivotally connecting the reflector with the shell admitting of its unrestricted movement within limits and adjustable means to limit the free relative movement between said shell and reflector, and means to automatically maintain the rays of light downwardly directed onto the roadbed as the automobile passes thereover.

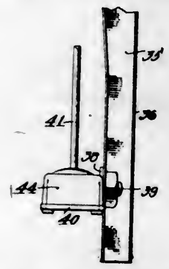
1,382,729. AUTOMOBILE-LOCK. CHARLES HOSKING and LOUIS L. HAHN, Philadelphia, Pa. Filed June 10, 1920. Serial No. 387,971. 5 Claims. (Cl. 70—129.)



1. In a lock for steering wheels, a member secured to a spoke of the wheel and having a socket on its under side extending downwardly in a plane at approximately right angles to the plane of the wheel, a head member receivable in the socket and disposed to lie therein in a plane parallel to the plane of the wheel, a lock borne by the head member and also receivable in the socket, and means to mount the inner end of the head member on the steering column.

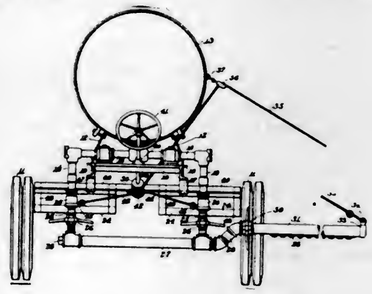
1,382,730. YARN-TENSION MACHINE. LEWIS T. HOUGHTON, Worcester, Mass. Filed May 22, 1919. Serial No. 298,908. 12 Claims. (Cl. 242—153.)

11. A yarn tension device, comprising a stand, a plurality of fixed and movable tension members mounted thereon, a depending bobbin support, said stand having a depending portion fitting between the sides of said support to preserve the lateral alinement thereof, and a single



fastening device adapted to secure said bobbin support to said stand and to clamp said stand to a supporting bar.

1,382,731. ROAD-OILER. JUSTUS R. KINNEY, Boston, Mass., assignor to The Kinney Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 14, 1920. Serial No. 358,637. 1 Claim. (Cl. 299—34.)



In a machine of the class described, a tank; a delivery pipe therefrom; a transverse pipe communicating therewith; a wheel-supported frame on which said tank is mounted; a spray pipe extending beyond the wheels and connected to an end of said transverse pipe; means including a revoluble shaft and cables connected thereto for reciprocating said transverse pipe and spray pipe; and means for retaining said spray pipe horizontal during said reciprocatory movement including a cable extending from the end of said spray pipe to said revoluble shaft and connected to both.

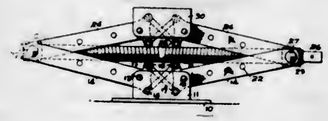
1,382,732. SHOE-HEEL. RAYMOND R. KIRSCH, St. Louis, Mo. Filed Sept. 7, 1920. Serial No. 408,518. 3 Claims. (Cl. 36—40.)



1. A shoe heel, comprising a metallic body portion having a horizontal tread at the base thereof, said tread being provided with cavities in its outer surface and a central threaded opening, a retaining plate having perforations therein, said perforations being over the cavities in the tread of the heel and having a central opening

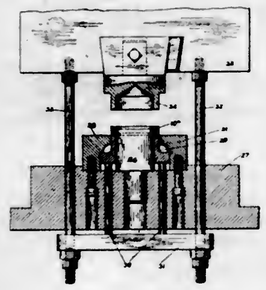
therein, a retaining screw extending through the central opening in the retaining plate and threading into the threaded opening in the tread, and a top lift extending over the retaining plate and connected therewith by nails passing through the top lift and through the perforations in the retaining plate, and being clenched against the retaining plate by contacting with the walls of the cavities in the tread of the body portion.

1,382,733. JACK. AMOS F. LANIER, Worcester, Mass., assignor, by mesne assignments, to Hi-Lo-Jack Company, a Corporation of Massachusetts. Filed June 4, 1920. Serial No. 386,520. 4 Claims. (Cl. 254—122.)



1. In a load lifting jack, the combination of a set of arms arranged in the form of a lazy tongs, parallel axes, and crossing links each extending from a point below said axes to a point above them and pivoted to both arms.

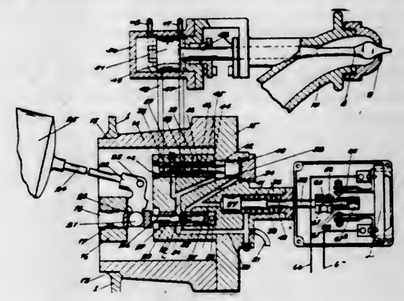
1,382,734. METHOD OF SIZING METAL BANDS. ALEXANDER W. LIMONT, Bridgeport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn., a Corporation of Connecticut. Original application filed Feb. 20, 1917, Serial No. 149,875. Divided and this application filed June 28, 1918. Serial No. 242,401. 9 Claims. (Cl. 29—156.)



1. The method of sizing a projectile band or the like of soft ductile metal, which comprises interposing the same in the space between a concentric die and mandrel, supporting the band from beneath in a movable manner so that it may be raised out of the die, exerting downward pressure on the band while in the die to cause it to fill the space between the mandrel and the die and bring it accurately to the required size, then removing the pressure on the band, and finally ejecting it from the die.

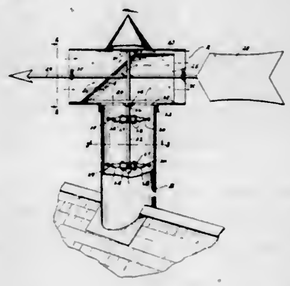
1,382,735. FLUID-LEVEL REGULATOR. CHESTER B. MCAULAY, San Francisco, and ELY C. HUTCHINSON, Oakland, Calif., assignors to Pelton Water Wheel Company, San Francisco, Calif., a Corporation of California. Filed June 12, 1918. Serial No. 239,561. 10 Claims. (Cl. 103—86.)

10. The combination with a receptacle for receiving a supply of fluid, and means for delivering fluid thereto, comprising a plurality of independent liquid feeding pumps in communication with the receptacle, a separate motor for each pump, said motors veing operable by energies of different characters whereby one may be operated entirely independent of the other, independently operable controlling devices for each motor, and means re-



sponsive to the fluid level in the container for actuating said controlling devices for placing said motors in operation.

1,382,736. VENTILATOR. WILLIAM MITCHELL, Milwaukee, Wis., assignor to Mitchell Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 29, 1919. Serial No. 348,159. 2 Claims. (Cl. 98—3.)



2. A ventilator comprising a substantially vertical air shaft, a supporting rod centrally carried by said shaft with its end extended thereabove, a substantially horizontal hood member rotatably supported above the shaft by said rod and having a bottom opening in register with said shaft, a substantially inverted U-shaped section positioned within the hood and having its ends secured therein with its outer end terminating near one end of the hood, a wall closing the inner end of said section and inclined from a point at the top of said section adjacent the engagement of said rod with the hood to a point outwardly of the hood bottom opening, the side and top walls of said section being spaced from the side and top walls of said hood whereby air entering the end of the hood adjacent the closed end of said section will be formed into a tubular column to create a suction within the open end of said section, the extreme upper end of said rod passing through an opening in the top of said section whereby the major portion will be shielded from the elements, and means whereby the end of said hood adjacent the closed end of the section will be held into the wind.

1,382,737. BUCKLE FOR PERSONAL WEAR. LAWRENCE F. OTTEN, Newport, Ky. Filed Jan. 24, 1920. Serial No. 353,832. 3 Claims. (Cl. 24—191.)

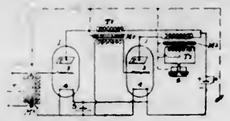
1. In a belt buckle for personal wear, a concavo-convex plate having rearwardly extending flanges, a pin mounted in said flanges, a sleeve on said pin, a belt loop pivotally mounted on said pin between said sleeve and said extensions respectively and a cam having pointed ridges, and pivotally mounted in the other end of said ex-

tensions respectively and adapted to receive the other end of said belt between said cam and said plate whereby



said plate is adapted to be held upon the user in any desired position, substantially as set forth and for the purposes specified.

1,382,738. AMPLIFYING APPARATUS. MARIUS C. A. LATOUR, Paris, France. Filed June 8, 1918. Serial No. 239,019. 8 Claims. (Cl. 179—171.)



1. In an amplifying apparatus for wireless signals and the like, a thermionic valve, a source of current in circuit therewith, a telephone, a transformer having a winding in circuit with said thermionic valve and source of current and a winding in circuit with said telephone, and a connection between the frame or casing of said telephone, the transformer winding in circuit with said telephone and one pole of said source of current.

1,382,739. CELLULOID BUTTON. MARTIN PATREMIO, Lodi, N. J. Filed Feb. 8, 1921. Serial No. 443,369. 2 Claims. (Cl. 24—90.)

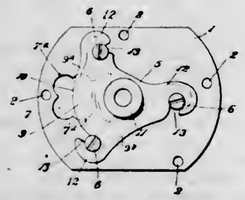


2. The combination with a button having a recess in its face with a surrounding wall extending substantially at right angles to its base, of a panel having a flange at its edge inwardly turned at right angles thereto and fitted in said recess, the outer face of said flange engaging the inner face of said wall for the purpose specified, there being corrugations in the face of the button around the recess for the purpose specified.

1,382,740. CONDUIT. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Aug. 26, 1918. Serial No. 251,536. 14 Claims. (Cl. 92—66.)

1. As a new article of manufacture, a hollow cylinder containing mixed fibrous and waterproofing materials which have been sufficiently densified by heat and pressure to produce a substantially homogeneous and rigid product.

1,382,741. OUTLET-PLATE. WILLIAM H. PIERSON, Philadelphia, Pa. Filed July 19, 1919. Serial No. 312,037. 15 Claims. (Cl. 240—85.)



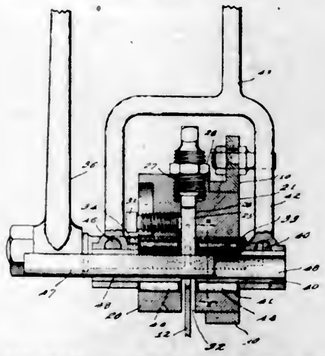
1. An outlet plate comprising a base having an enlarged loom opening, and a hickey for clamping a loom against the edge of said opening and closing the rest of the opening.

1,382,742. CAMISOLE AND METHOD OF MAKING SAME. LEO PLATT, New York, N. Y. Original application filed Dec. 28, 1918, Serial No. 268,587. Divided and this application filed May 22, 1920. Serial No. 383,432. 3 Claims. (Cl. 2—73.)



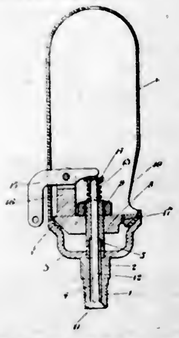
2. A method of making camisoles comprising weaving a strip with tubular edges of suitable length for camisoles and mounting shoulder straps thereon.

1,382,743. SAW-SWAGE. JOHN F. PRIBNOW, Indianapolis, Ind., assignor to E. C. Atkins & Company, Indianapolis, Ind., a Corporation of Indiana. Filed May 17, 1920. Serial No. 381,998. 7 Claims. (Cl. 76—54.)



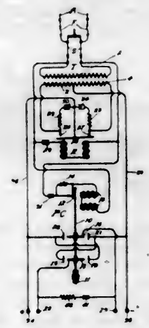
1. A saw swage, comprising a swage block, alined bushings mounted in holes in said swage block, roller bearings between said bushings and the walls of said holes, a swaging die mounted in said alined bushings, and means for turning a bushing and through it turning the swaging die.

1,382,744. WHISTLE. EDWARD J. SCHNEIDER, St. Louis, Mo. Filed Mar. 18, 1921. Serial No. 453,431. 3 Claims. (Cl. 116—138.)



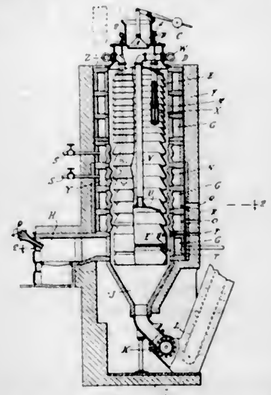
1. A whistle of the character described comprising, a supporting stem, an abutment on said stem, a chamber on said stem bearing against said abutment, a dome having its edge within said chamber, a wall member clamping the edge of said dome against the wall of the chamber, a valve supported in said stem, a spring for holding the valve closed and a lever for opening the valve in opposition to said spring.

1,382,745. ELECTRICAL RECTIFIER AND POLE-CHANGER. FRED SCHOENWOLF, Chicago, Ill., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1917. Serial No. 149,010. 6 Claims. (Cl. 172—281.)



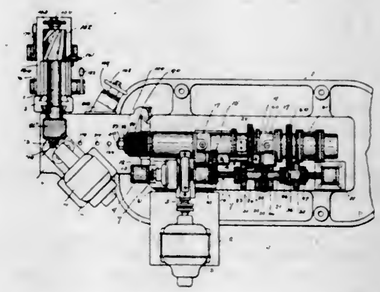
1. A device of the character described including a source of alternating current, a transformer having its primary winding bridged across said source of current, a rectifier provided with a pair of magnets connected across said source of current, a pair of secondary windings for said transformer connected to contacts of said rectifier, a condenser in circuit with the magnets of said rectifier to neutralize their impedance to permit the armature of said rectifier to vibrate in synchronism with the alternating current, a supply circuit, a pole changer having movable switching means connected to said supply circuit, relatively stationary switching means for said pole changer connected to said secondary windings and to the armature of said rectifier, and a resistance winding and a condenser connected from said armature to each of said rectifier contacts.

1,382,746. DISTILLATION-OVEN. LLOYD F. SCHRADER, WILLIAM E. ROBERTS, and VLADIMIR BREDLIK, New York, N. Y., assignors, by mesne assignments, to Foundation Oven Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,762. 2 Claims. (Cl. 202—9.)



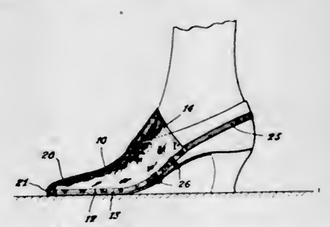
1. An oven for distillation of carbonaceous materials comprising an outer shell formed with heating flues having an inlet at the lower end and an outlet at the upper end and an inner shell formed with openings for carrying off gases, a diaphragm near the lower end of the inner shell forming a chamber for receiving the gases from the lower portion of the material, and means for introducing steam into the lower portion of the material to form ammonia and cause it to pass into said chamber.

1,382,747. GRINDING-MACHINE. ARTHUR SCRIVENOR, Richmond, Va. Filed May 9, 1917. Serial No. 167,578. 17 Claims. (Cl. 51—91.



1. In combination, a sleeve rotatably mounted in bearings and having an internally threaded portion, a work holder mounted slidably in and concentrically with the sleeve and provided with an externally threaded portion adapted to engage the internal thread of the sleeve, means for rotating the sleeve, means for rotating the work holder, and differential means for changing the ratio between the rates of rotation of the sleeve and of the work holder.

1,382,748. FOOTWEAR-PROTECTOR. KATE SLASOR, Seattle, Wash. Filed June 12, 1920. Serial No. 388,665. 1 Claim. (Cl. 36—72.)

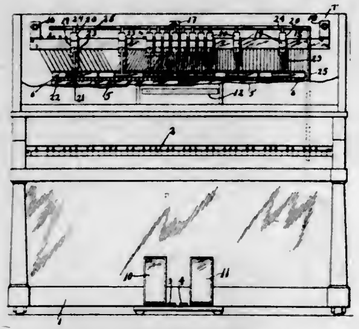


A footwear protector formed of a flexible sheet of material folded to inclose the upper forward portion of the footwear, elastic retaining straps for the lower edges of the folded sheet underlying the footwear, an elastic heel strap projecting rearwardly from the side edges of the folded sheet, the forward edge of the sheet being gathered, and an elastic cord within the gathered edge to permit expansion and contraction of the protector for intimate engagement with the tip of the footwear.

1,382,749. ACCOMPANIMENT CONTROL FOR PLAYER-PIANOS. RAY S. SMITH, Oakland, Calif. Filed Apr. 16, 1919. Serial No. 290,366. 2 Claims. (Cl. 84—35.)

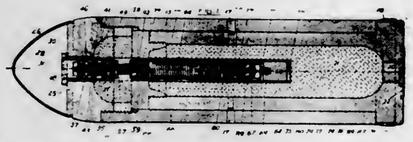
1. An attachment for player pianos having the usual strings and hammer system consisting of a bar extending along the strings in front of them at their upper ends, brackets for securing said bar in position, a plurality of pneumatics supported by said bar, an operating arm carried by each pneumatic and extending to a position adjacent the several hammers, an arm near the center of the scale covering a few hammers while the arms at the upper ends of the scale cover a larger number of

hammers, a tracker board and means operated by the tracker board and pneumatics to vary the position of the



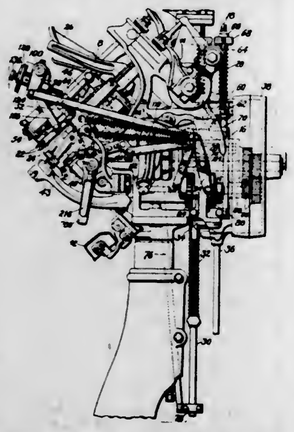
pneumatic arms to diminish the striking blow of certain sets of hammers.

1,382,750. PROJECTILE. FRANK DESMOND SPRAGUE and PHILIP WHALLEY ALLISON, New York, N. Y. Filed July 24, 1917. Serial No. 182,537. 9 Claims. (Cl. 102—29.)



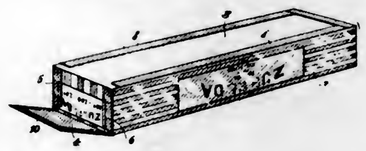
1. In a projectile, the combination of an outer casing, an inner casing, a separating charge in the outer casing in front of the inner casing, a destructive charge contained in the inner casing, an impact fuse for exploding the separating charge, a mechanism in the inner casing for detonating the destructive charge, and a flexible member normally located in the inner casing and connecting the outer casing and the inner casing for initiating the operation of said mechanism, substantially as described.

1,382,751. PULLING-OVER MACHINE. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 31, 1919. Serial No. 300,852. 68 Claims. (Cl. 12—4.)



1. A machine of the class described having, in combination, grippers for engaging an upper at opposite sides of a last, power means for effecting relative movement of said grippers and the last to pull the upper across the forepart of the last, means for causing said grippers to close on the upper before the machine is started, and means automatically operative after the starting of the machine to effect a relative movement of said grippers and the last in a direction to pull the upper lengthwise from the heel end forwardly.

1,382,752. SEALED-WRAPPED PACKAGE. JOHN STOCDELL STOKES, Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 29, 1917. Serial No. 193,930. 3 Claims. (Cl. 229—40.)



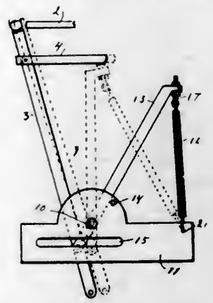
1. A sealed wrapped package comprising a box-like container and a wrapper therefor, said wrapper comprising a top portion, end portions integrally connected thereto, and integral side portions having extensions adhesively attached to the adjacent parts of the end portions, said top, side and end portions being entirely free from the underlying package and having extensions at their outer edges overlying and attached to the marginal portion only of the bottom of the package.

1,382,753. ELECTRIC CONNECTOR. FREDERICK A. TEFFT, Toledo, Ohio. Filed Jan. 24, 1920. Serial No 353,776. 4 Claims. (Cl. 287—75.)



2. In an electric connector, a plug having channels and openings extending from the ends of the plug to the channels, a cylinder having openings, said openings and channels adapted to receive the ends of the wire to be connected and the channels for receiving the turns of wire when the plug is rotated relative to the cylinder.

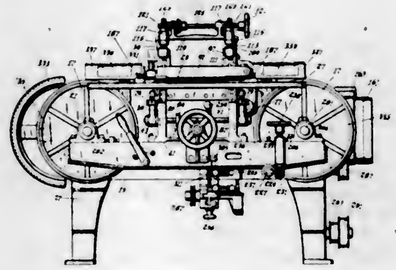
1,382,754. PICKER-STICK PROTECTOR FOR LOOMS. ANDREW E. WILLSON, Grand Rapids, Mich. Filed Jan. 21, 1921. Serial No. 438,871. 4 Claims. (Cl. 139—48.)



1. In combination with a loom, a loom picker stick, the supporting arm for the picker stick, the actuating mechanism connected with the stick, and the shuttle guides; an auxiliary supporting element secured to the supporting

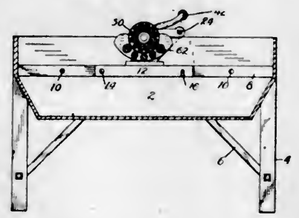
arm, a lever fulcrumed to the auxiliary supporting element and having a long end and a short end, the picker stick pivotally mounted upon the short end of the lever, a spring connected with the long end of the lever and anchored to the supporting element in such a manner that sudden strain upon the picker stick with its upper end held rigid will throw the short end of the lever and release the strain upon the picker stick.

1,382,755. BELT-KNIFE SPLITTING-MACHINE. WILLIAM C. BAXTER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 27, 1919. Serial No. 307,093. 34 Claims. (Cl. 69—10.)



1. A machine of the class described, having in combination, a belt knife, mechanism comprising upper and lower members adapted to engage both sides of the work for feeding the work to the knife, and a single adjusting member movement of which adjusts both members of the feed mechanism in a path substantially parallel to the plane of the cut of the knife.

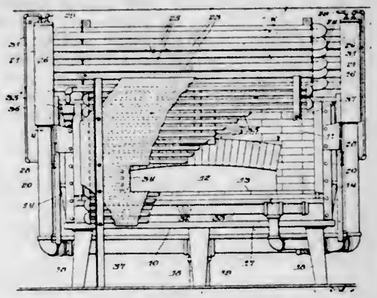
1,382,756. WASHING-MACHINE. ROSS CLARK BEEKMAN, Kansas City, Kans. Filed Feb. 9, 1920. Serial No. 357,205. 1 Claim. (Cl. 68—23.)



In a washing machine, a main roller consisting of two circular end plates, triangular projections on said end plates near the periphery thereof, slats which are substantially rhomboidal in cross section having their ends adapted to fit between the triangular projections on the end plates to form a roller, a shaft upon which said roller is journaled, means for rotating or oscillating said shaft and its roller, and a roller bed coöperating with said main roller, substantially as described.

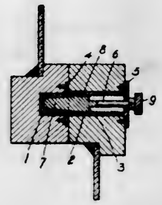
1,382,757. PREHEATER FOR FURNACES. CARLYLE D. BIDWELL, Milwaukee, Wis., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Sept. 13, 1918. Serial No. 253,973. 12 Claims. (Cl. 263—20.)

1. In a furnace having a nozzle at the end and a charging door at the side, the combination of a water-cooled shield in front of said door, a passage between said shield and said furnace, means for causing the waste



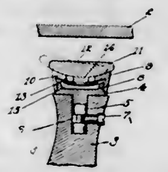
gases to pass up between the shield and the furnace, and means for extracting heat from the waste gases in said passageway and for returning the heat to the nozzle.

1,382,758. SASH-FASTENER. MARTHA A. BROWN, Pittsburgh, Pa. Filed Oct. 16, 1919. Serial No. 331,228. 2 Claims. (Cl. 292—251.)



1. A sash-fastener comprising a locking-pin constructed to extend through one of the sash-frames and provided with an elongated locking-head and exterior screw-threads and adapted to lie across and extend a considerable distance on each side of the joint between two sash-frames when in locking position, and a metallic inclosing member for said pin located in each of the sash-frames, both of said inclosing-members closely contacting with said locking-head at the joint-line between the sashes when in its locking position, one of said inclosing-members extending entirely through its respective sash-frame and screw-threaded interiorly substantialy its whole length to engage the screw-threads on the locking-pin whether in its locked or unlocked position.

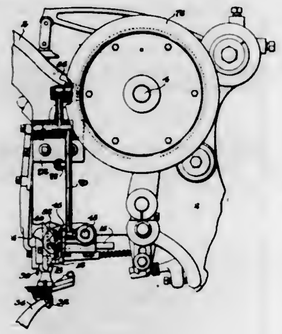
1,382,759. WORK-SUPPORT. LOUIS A. CASGRAIN, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 11, 1917. Serial No. 185,695. 1 Claim. (Cl. 1—41.)



A work support for fastener inserting machines, comprising a horn, a disk engaging and detachably connected to the end portion of said horn and provided with an up-

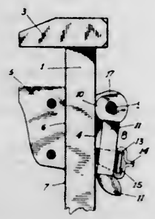
standing circular flange, a drum having a depending flange engaging the upstanding flange of said disk and also provided with an upper, concavo-convex, spherical wall with a central aperture, and a work engaging tip having a flat upper surface and a spherical lower surface for supporting contact with the upper surface of the concavo-convex spherical surface of said drum and being provided with a shank extending through the aperture in the drum and carrying means to engage the concavo-convex wall of the drum to prevent separation of the parts.

1,382,760. MACHINE FOR FORMING FASTENINGS. LOUIS A. CASGRAIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 3, 1918. Serial No. 243,152. 44 Claims. (Cl. 10—43.)



1. The method of forming fastenings which comprises alternately swaging the end of the fastening stock to reduce a transverse dimension of the stock at its end, and then severing a fastening from the stock, the point of each fastening being constituted by the swaged end of the stock.

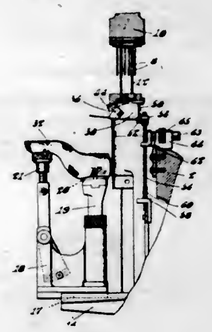
1,382,761. WRENCH. JAMES M. CAVANAUGH, Big Oak Flat, Calif. Filed Aug. 9, 1920. Serial No. 402,100. 5 Claims. (Cl. 81—141.)



1. A wrench comprising a shank, a fixed jaw, a movable jaw slidable on the shank, a cam member mounted with the movable jaw on the side thereof opposite from the shank, and a friction member coöperating with the cam member arranged to engage the shank with varying intensity and at the same time to cause the cam member to similarly engage the shank.

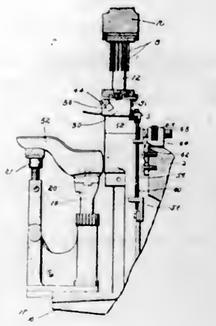
1,382,762. ASSEMBLING-MACHINE. CHARLES E. CONNER, Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 10, 1918. Serial No. 253,411. 28 Claims. (Cl. 1—19.)

1. In a machine of the class described, the combination of means for supporting shoe parts, inluding a shoe upper, means for supporting a counter, and mechanism for effecting a relative movement of the said, two means to



present the counter in predetermined assembled relation to the shoe upper.

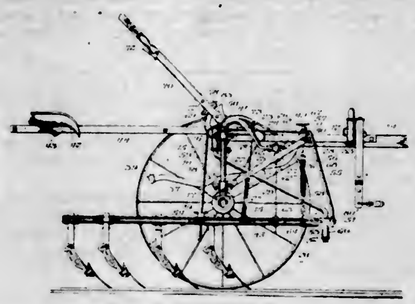
1,382,763. METHOD OF MAKING SHOES. CHARLES E. CONNER, Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Sept. 10, 1918, Serial No. 253,411. Divided and this application filed Dec. 8, 1919. Serial No. 343,365. 5 Claims. (Cl. 12—142.)



1. The method of manufacturing turned shoes, which comprises rigidly supporting a molded counter, pressing against the bottom of the counter thus supported, a sole to which an upper has been attached, fastening the counter to the sole and thereafter completing the manufacture of the shoe.

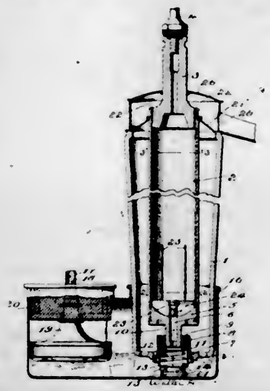
1,382,764. CULTIVATOR. SAMUEL K. DENNIS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed March 20, 1916. Serial No. 85,355. 7 Claims. (Cl. 97—35.)

1. In a cultivator, the combination of a frame, swiveled wheels thereon, a steering bar connecting the wheels, forwardly and downwardly extending push rods pivoted to the frame on vertical axes, implement beams pivoted on the lower ends of said rods, latch members slidably mounted on said steering bar and provided with depending arms loosely engaged with the beams, and latch locking means



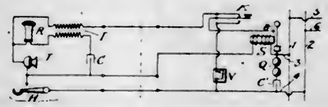
on said connecting bar positioned for engagement by said latch members.

1,382,765. EMULSIFIER. WALTER GRANT DIXON, West Chester, Pa., assignor to The Sharples Separator Co., West Chester, Pa., a Corporation of Pennsylvania. Original application filed Jan. 3, 1920, Serial No. 349,301. Divided and this application filed Aug. 4, 1920. Serial No. 401,261. 13 Claims. (Cl. 259—96.)



1. An emulsifier including in combination a rotating closed bowl having an inlet opening located at a distance from the inner wall of the bowl, and discharge openings disposed relative to the bowl and proportioned relative to the inlet opening so as to cause the material to enter the inlet opening by suction and to be thrown against the inner wall of the bowl for emulsifying the same.

1,382,766. PARTY-LINE LOCKOUT FOR TELEPHONE SYSTEMS. JOHN W. DORSEY, Winnipeg, Manitoba, Canada. Filed June 20, 1917. Serial No. 175,798. 10 Claims. (Cl. 179—33.)



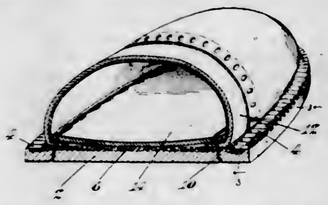
2. A party line lockout system comprising, at each substation, a potential relay normally holding the talking circuit open and responsive to the closing of the switch-hook contacts to close the talking circuit and produce current fluctuations therein for an appreciable time.

1,382,767. VEHICLE-SIGNAL. JOHN L. DU FRANE, Oakland, Calif. Filed Sept. 18, 1919. Serial No. 324,726. 3 Claims. (Cl. 116—54.)



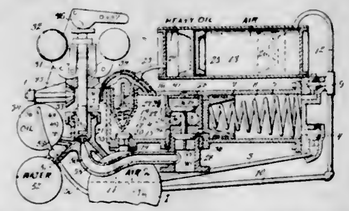
1. An automobile signal including a support, a hinge, one member of said hinge being fixed on said support, a rod journaled in the other member of said hinge, an indicator on said rod, and a link connected at one end to the fixed member of said hinge, a ball and socket connection connecting the other end of said link to said rod for turning the indicator into indicating position when the rod is swung into signaling position and for turning said indicator out of indicating position when the rod is swung into non-signaling position.

1,382,768. RUBBER SOLE FOR BOOTS AND SHOES. GEORGE FERGUSON, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 25, 1917. Serial No. 188,175. 1 Claim. (Cl. 36—32.)



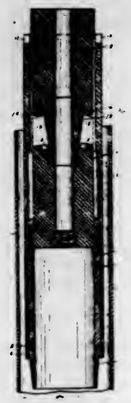
As an article of manufacture, a rubber sole for shoes comprising a sole-shaped rubber body having a fabric stitch-receiving lamina embedded in the upper surface of the rubber body to provide a substantially flat surface from edge to edge on the upper surface of the rubber body, the said rubber body and fabric lamina being vulcanized together, and a series of transversely disposed ribs formed on the upper marginal surface of the sole, and corrugating the outer margin of the said fabric lamina into the rubber body to strengthen its vulcanized attachment to the said rubber body.

1,382,769. FLUID-PRESSURE GENERATOR WITH AUTOMATIC AIR-COMPRESSOR. GEORGE JONES FERGUSON, St. Louis, Mo. Filed May 3, 1916, Serial No. 95,249. Renewed May 7, 1921. Serial No. 467,736. 17 Claims. (Cl. 60—46.)



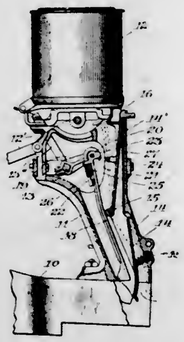
1. In a fluid pressure generator, a combined fuel air and fuel oil reservoir, a sliding piston therein, an explosion chamber, inlets connecting the fuel reservoir and the explosion chamber, an oil valve, an air valve controlling said inlets, and said oil valve resting substantially on said air valve to effect a proportional opening of the valves.

1,382,770. PACKER FOR WELLS. WALTER WILLIAM FONDREN, Houston, Tex. Filed Jan. 10, 1921. Serial No. 436,293. 3 Claims. (Cl. 166—10.)



1. A device of the character described, including a pipe section, a packer surrounding the same, a sleeve threaded onto said section and adapted to abut against said packer to expand the same, a rotatable member fitted within the sleeve and capable of being connected with and disconnected from said pipe section, radially movable dogs carried by said member, yieldable members operating against said dogs, and tending to force them outwardly, the upper end of the sleeve being provided with notches into which said dogs project when brought into alinement therewith, thus forming a connection between the rotatable member and the sleeve through which the sleeve may be rotated against said packer to expand the same.

1,382,771. VALVE AND TRIP-LOCK FOR PLANTERS. RALPH L. FORD, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 29, 1920. Serial No. 426,926. 7 Claims. (Cl. 111—51.)



1. In corn planter valve mechanism comprising an independently movable member and plunger, the combination with said valve elements of locking means engageable with the valve member and plunger to lock them against relative movement.

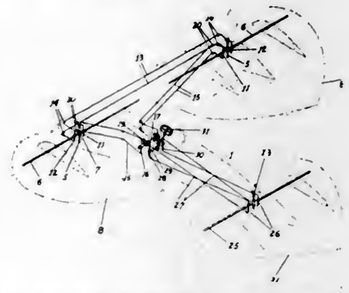
2. In corn planter valve mechanism comprising an independently movable valve member and plunger, the combination with said member and plunger of means carried by one of said elements and engaging with the other to lock both against relative movement.

3. In corn planter valve mechanism comprising an independently movable valve member and plunger, the combination with said member and plunger of a lock comprising a latch carried by one of said elements and a complemental part on the other element engaging with said latch when the two elements are brought together.

4. In corn planter valve mechanism comprising an independently movable valve member and plunger, the combination with said member and plunger of a lock comprising a spring pressed latch mounted on one end of the plunger and a latching eye on one end of the valve member engaging with said latch when the valve member is moved toward the plunger.

5. In corn planter valve mechanism including an oscillating arm and a plunger pivoted to said arm, the combination with the plunger of a latch adapted to engage an adjacent part of the mechanism to lock the plunger and arm against movement.

1,382,772. AEROPLANE. HENRY M. FRANZEN, Los Angeles, Calif. Filed Aug. 7, 1920. Serial No. 401,922. 14 Claims. (Cl. 244—29.)



1. An aeroplane including a fuselage, horizontal supporting surfaces and vertical fins integral therewith, the supporting surfaces being independently mounted for universal movement relative to the fuselage, and means actuated by the aviator for moving the supporting surfaces.

1,382,773. MULTICOLOR-PRINTING PRESS. CHARLES N. GALLAND and WILLIAM A. KELSEY, Minneapolis, Minn., assignors to Multicolor Printing and Machinery Company, Minneapolis, Minn., a Corporation of South Dakota. Filed Sept. 22, 1917. Serial No. 192,780. 1 Claim. (Cl. 101—175.)

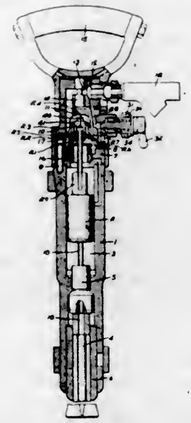


The combination with a printing press having printing devices including a paper delivery cylinder, of an auxiliary printing drum having type thereon for printing in different colors on the paper delivered by said cylinder, an automatic multicolor ink device coöperating with said auxiliary drum and comprising a distributing drum made up of a multiplicity of groups of thin axially shiftable drum sections assembled with gaps between the groups, and an ink font having partitions adapted to be alined with the gaps between the said assembled groups of drum sections, the said drum sections being frictionally held in their assembled positions and capable of sliding movements.

1,382,774. RUBBER ARTICLE AND METHOD OF MAKING THE SAME. WILLIAM C. GEER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1920. Serial No. 362,131. 7 Claims. (Cl. 18—53.)

1. The method of making rubber articles which comprises mixing rubber with a vulcanizing ingredient by a suitable masticating operation and giving it an extended form, then without further mastication dividing the rubber body into relatively-small lumps, pressing said lumps together into a mass having a form approximating that of the finished article, and vulcanizing said article.

1,382,775. STONE-DRILLING ENGINE. GEORGE H. GILMAN, Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 20, 1912. Serial No. 684,970. 30 Claims. (Cl. 121—10.)

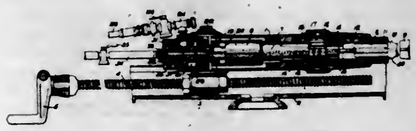


3. In a rock drill, the combination with a cylinder, a piston therein, a head block having a fluid supply chamber, and a feed tube supported in said head block for supplying pressure fluid to the drilled hole, said head block having a passage leading from said fluid supply chamber to said cylinder and a passage leading from said supply chamber to said feed tube, of separate valves independently controlling the passages in said head block, respectively.

17. In a drilling machine, the combination with a cylinder member, of a head block secured to the rear end thereof, a closure interposed between the head block and cylinder member and held in place thereby, said closure having a central socket, a reciprocatory piston operating in the cylinder member, a tappet engaged by the piston, a tube having a flanged end in the socket of the closure and having its other end in the tappet, means for securing the said end in the socket, and means for introducing motive fluid into the tube.

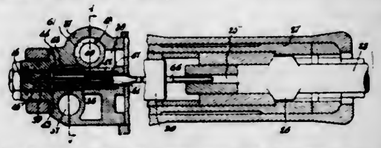
23. In drilling apparatus, the combination with a motor comprising a cylinder member and a piston operating therein, of means for delivering motive fluid to the piston to actuate it including a rear passage opening into the cylinder member, a valve controlling such passage and coaxially disposed with respect thereto, a hollow tool to be operated on by the piston, and means extending through the valve for delivering cleansing fluid to the tool.

1,382,776. STONE DRILLING ENGINE. GEORGE H. GILMAN, Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 20, 1912, Serial No. 684,968. Renewed July 9, 1919. Serial No. 309,765. 26 Claims. (Cl. 121—4.)



1. In a rock drill, the combination with a cylinder, of a piston hammer therein, a longitudinally movable drill bit adapted to be supported in said cylinder, and a fluid supply tube connected to the cylinder for supplying fluid to the drill bit, said tube being movable relatively both to the cylinder and the piston to follow the movement of said bit.

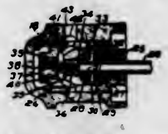
1,382,777. CUTTING-TOOL. GEORGE H. GILMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Original application filed Apr. 3, 1913, Serial No. 758,563. Renewed Dec. 7, 1914, Serial No. 876,004. Divided and this application filed July 24, 1919. Serial No. 313,120. 30 Claims. (Cl. 121—10.)



1. In a rock drill, a rear head, a hollow drill steel, and means for supplying a cleansing fluid to said drill steel comprising a chamber in said head, a gland insertible in said chamber, retaining means between a wall of said chamber and a wall of said gland, and a plurality of detachable fluid conducting means one of which is secured in said head by said gland and retaining means.

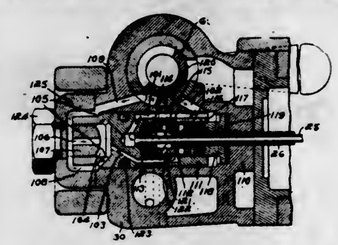
25. In a rock drill, the combination with a cylinder, a piston therein and a hollow drill steel, of means for supplying cleansing medium to a drill steel comprising a rear head for said cylinder provided with a chamber therein, a conducting tube projecting into said chamber and extending longitudinally through said cylinder, a packing surrounding said tube and disposed in said head, a gland surrounding said tube and operative to compress said packing to hold said tube in fixed relation to said head, said gland being provided with means for supplying cleansing fluid to said tube, and a second tube mounted in said head to the rear of said first mentioned tube and projecting into the latter.

1,382,778. ROCK-DRILL. GEORGE H. GILMAN, Boston, Mass., assignor to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1914. Serial No. 821,885. Renewed Nov. 19, 1920. Serial No. 425,167. 31 Claims. (Cl. 121—10.)



22. In a rock drill, a cylinder including a rear head having a fluid passage therein, a piston movable in said cylinder, a coaxially disposed removable plug attached to said rear head, a fluid supply tube extending axially through said piston communicating with said passage, and means for removably attaching said tube to said removable plug.

1,382,779. ROCK-DRILL. GEORGE H. GILMAN, Claremont, N. H., assignor to Sullivan Machinery Company, Claremont, N. H., a Corporation of Massachusetts. Filed Aug. 27, 1915, Serial No. 47,570. Renewed June 16, 1919. Serial No. 304,726. 43 Claims. (Cl. 121—4.)



1. A rock drill comprising, in combination, a hollow drill bit; drill bit percussion means; tubular means for conducting air and water to said drill bit; a manually operable controlling means for controlling admission of air and water to said tubular means; an air passage connecting said controlling means with said tubular means; and a water passage connecting said controlling means with said tubular means, said air passage being located in the rear of said water passage and so disposed as to prevent leakage therefrom.

28. In a rock drill, the combination with a cylinder, of percussive means therein, a hollow drill steel, a rear head for said cylinder, separate coaxially disposed gaseous fluid and liquid conducting tubes in said cylinder communicating with said steel, and means for securing said tubes in rigid relation to said head comprising a removable member disposed in said head between the ends of said conducting tubes and operative positively to prevent movement of said ends toward each other.

1,382,780. FILE-WRAPPER. ANNA C. GURSKE, Omaha, Nebr. Filed Feb. 5, 1921. Serial No. 442,681. 5 Claims. (Cl. 129—37.)



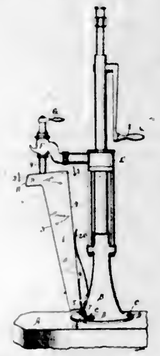
1. A file wrapper, consisting of a flexible sheet having a bent portion providing a back and a cover and having a second bent portion providing a flap above the back, resilient, metallic strands for pressing the flap toward the back, each strand being bent midway between its ends to approximately V-shape to provide divergent parts adapted to lie upon the flap and providing curved parts adapted to be disposed adjacent to the second bent portion of the flexible sheet, and providing loops for engaging said back, a base-strip on the back disposed on said loops, and a housing strip engaging the back and base-strip, the flap of said flexible sheet being bent upwardly to provide a lifting-member.

1,382,781. ATTACHMENT FOR ELECTRIC IRONS. ADAM HAUSAM, Richmond Heights, Mo. Filed Aug. 11, 1920. Serial No. 402,821. 6 Claims. (Cl. 219—25.)



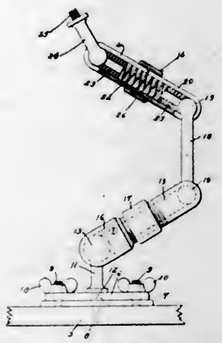
1. The combination with an electric iron having terminal posts, of an attachment including a case, separate from the iron, sockets in the case designed for slip engagement with the posts, electrical leads, a circuit closer between one of the leads and one of the sockets, means for normally holding said circuit closed, and thermal means for automatically releasing said circuit closer whereby said circuit is opened at a predetermined heat.

1,382,782. AUTOMATIC OIL-DRIP CATCHER. MICAJAH C. HENLEY, Richmond, Ind. Filed Apr. 26, 1920. Serial No. 376,572. 6 Claims. (Cl. 221—69.)



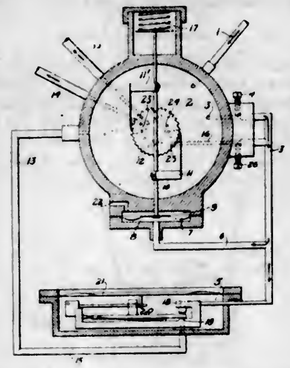
1. In combination with an oil dispenser having a discharge nozzle, an oil container, a head integral with the upper portion of the container, there being a slot in the upper portion of the head in which the lower portion of the nozzle is located, the bottom of the overhanging portion of the head being open, a lip formed integral with the upper end of the container and adjoining said opening in the head, and a cut-off lip located above and projecting outward beyond the first mentioned lip to catch the drip from the nozzle and conduct it to the base of the first lip by which it is conducted into the container, substantially as set forth.

1,382,783. SUPPORT. ALBERT L. HOWARD, Montello, Mass. Filed Dec. 6, 1920. Serial No. 428,730. 2 Claims. (Cl. 248—7.)



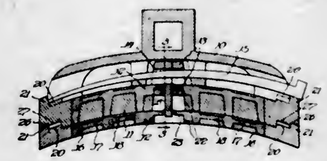
1. In a device of the character described, a supporting member including a base, a pair of sectional link members, a shank having a ball at one end thereof, said ball being disposed within one of the sectional link members, a solid link having a ball formed integral with its respective ends, said balls being positioned within the sectional link members, tubes disposed within the sectional link members and engaging the balls, and spring members within the sectional link members for contacting with the tubular members to force the tubular members into contact with the balls of the solid link members.

1,382,784. FLASHLIGHT SIGNAL APPARATUS. GEORG KARL VILHELM JOHANSSON, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Filed Mar. 28, 1919. Serial No. 285,868. 16 Claims. (Cl. 67—111.)



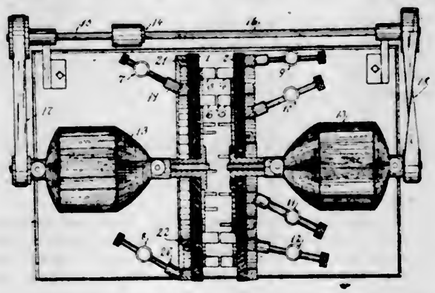
1. In combination with a flash light apparatus, a burner conduit, and means located intermediate the outlet of the flash light apparatus and the burner conduit for controlling communication between the said outlet and the said burner conduit, said means operated by the gas preasure in the supply conduit to the flash light apparatus.

1,382,785. INTERLOCKING BRAKE-SHOE. ROBERT L. JORDAN, Chicago, Ill. Filed May 5, 1920. Serial No. 379,169. 8 Claims. (Cl. 188—239.)



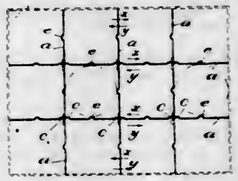
1. An interlocking brake shoe, comprising a new shoe having a central apertured attachment lug on its back for attachment to a brake head, and a central socket in its face shaped to receive a like central attachment lug of a worn shoe, a partially worn shoe fitted to the face of said new shoe, and a one-piece locking key passed through both attachment lugs and secured by the brake head fastening key.

1,382,786. ROTARY SPARK-GAP. AUGUST J. KLONECK, New York, N. Y. Filed June 3, 1916. Serial No. 101,560. 21 Claims. (Cl. 250—38.)



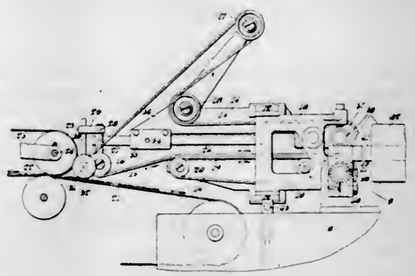
1. A rotary spark gap, comprising two motors having their shafts in axial alinement with one another, electrode holders attached on each shaft carrying metallic electrodes thereon, the electrodes of one motor coöperating with the electrodes of the other motor, said electrodes being divided into sections having a plurality of projecting points, the total number of electrode points being different for each holder.

1,382,787. PARTITIONING FOR BOXES. LEON E. LA BOMBARD, Chelsea, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Feb. 20, 1918. Serial No. 218,320. 5 Claims. (Cl. 217—34.)



1. Box partitioning comprising strips having interengaging transverse crevices the edges of which are treated to render them elastic, the portions immediately adjacent to the said elastic edges being flat and relatively inelastic, the construction being such as to retain the strips in interengaged relationship by frictional grip of the elastic edges of the crevices upon flat portions of the companion strips.

1,382,788. STACKER. LEON E. LA BOMBARD, Chelsea, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Feb. 6, 1920. Serial No. 356,701. 16 Claims. (Cl. 93—49.)

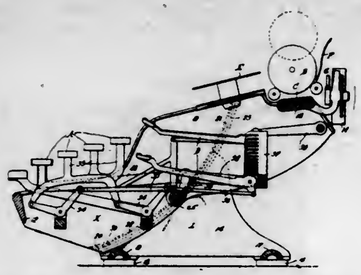


1. Mechanism of the character described having, in combination, a receiving conveyer, a delivering conveyer for depositing articles on said receiving conveyer, an elongated presser for holding the articles on the receiving conveyer, and means for yieldingly bearing on the articles after they are deposited on the receiving conveyer and are approaching the elongated presser.

1,382,789. TYPEWRITING-MACHINE. EMMIT G. LATTA, Syracuse, N. Y. Filed May 1, 1918. Serial No. 231,800. 19 Claims. (Cl. 197—186.)

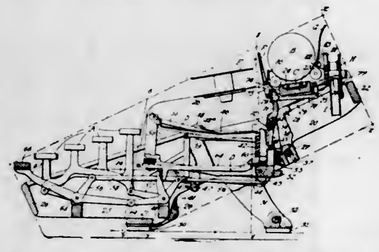
1. In a typewriting machine, the combination of a platen carriage, type-bars, a keyboard comprising actuat-

ing keys for said type-bars, a frame carrying all of said parts, and a stationary support on which said frame is



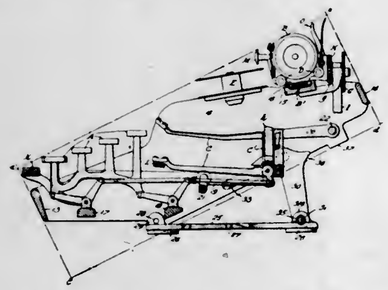
movably mounted to shift in substantially upright position for collapsing the machine to reduce its dimensions.

1,382,790. TYPEWRITING-MACHINE. EMMIT G. LATTA, Syracuse, N. Y. Filed July 18, 1918. Serial No. 245,468. 31 Claims. (Cl. 197—186.)



1. In a typewriting machine, a frame having fixed front supports and adapted to have its rear end lowered by tipping on said supports, a pair of pivoted rear supports for said frame arranged to swing in planes parallel with the sides of the frame, and means for limiting the movement of the rear supports on their pivots.

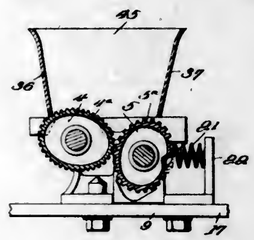
1,382,791. TYPEWRITING-MACHINE. EMMIT G. LATTA, Syracuse, N. Y. Filed Oct. 30, 1918. Serial No. 260,347. 17 Claims. (Cl. 197—186.)



6. In a typewriting machine, the combination with a two-part frame, comprising a main frame having a platen carriage, a key-board and front strike type-bars mounted in operative relation thereon, and a frame base having its front pivotally connected to the main frame, of a rock shaft mounted on one of said frame parts, said rock shaft having rigid legs extending therefrom, and movable connections between the free ends of said rigid legs and the other frame part.

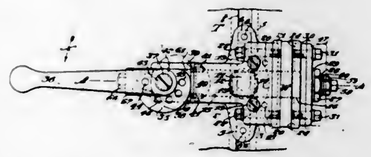
7. In a typewriting machine, the combination of a main frame having a platen carriage, a keyboard, and front strike type-bars mounted in operative relation thereon, a frame base having its front pivotally connected to the lower part of the main frame, a rock shaft mounted on the base and having rigid legs with sliding bearings on the main frame, and stops for said legs.

1,382,792. CORN-HUSKING MACHINE. WILLIAM HAMMOND LEISTER, Westminster, Md., assignor to The United Machinery Company, Westminster, Md., a Corporation of Maryland. Filed Sept. 20, 1917. Serial No. 192,366. 25 Claims. (Cl. 130—5.)



5. A husking machine including in combination, a plurality of substantially parallel longitudinally extending rotary tumblers along which the ears are conveyed, each of said tumblers being of substantially uniform peripheral cross section throughout its length and having sections of its peripheral surface disposed at different distances from its axis of rotation whereby the ears are positively tumbled about transversely a plurality of times during their movement longitudinally of the tumblers, said tumblers being in substantially continuous gripping relation to each other throughout the entire rotation of the tumblers.

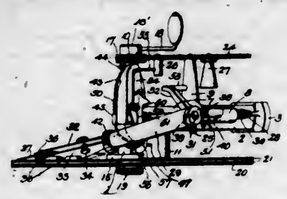
1,382,793. MACHINE-TOOL FIXTURE. EVERETT C. LEWIS, Providence, R. I. Filed Dec. 22, 1919. Serial No. 346,530. 18 Claims. (Cl. 90—61.)



1. In a fixture for machine-tools, the combination with a base, of a fixed jaw on said base, a movable jaw, a support for the movable jaw slidable on the base, automatically-operated means for sliding the support to open the jaws, a cam for sliding the support to close the jaws, and a variable connection between the cam and support for adjusting the operative relation between the movable jaw and fixed jaw.

1,382,794. MACHINE FOR SHARPENING SAFETY-RAZOR BLADES. MELCHIOR L. LUEBBEN, St. Louis, Mo. Filed Oct. 14, 1919. Serial No. 330,607. 10 Claims. (Cl. 51—124.)

1. In a machine for the purpose set forth, the combination of an abrading member, a blade-holder, means acting constantly to hold a blade in the blade-holder against the abrading member, means for periodically moving the blade-holder from the abrading member and reversing the same and then permitting return of the blade-holder to the abrading member, a movable element, means for projecting said element normally toward the blade holder, means for retracting said element, and a series of stops on said element to be successively engaged by the blade-holder



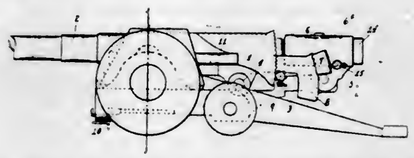
during its return movement as the element is retracted whereby to retard said return movement of the blade holder.

1,382,795. LIGHTNING-ARRESTER. RALPH MCNEILL, Newark, N. J. Filed May 4, 1920. Serial No. 378,844. 15 Claims. (Cl. 175—30.)



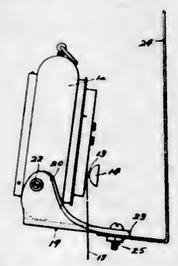
1. An electric protective device having normally separated electrodes movable relatively toward each other in response to the passage of a prolonged, arc-creating current, with provision for automatically separating said electrodes on the cessation of the current.

1,382,796. BREECH-BLOCK MECHANISM. CHARLES MIRMILLO, Oakland, Calif., by Sarah E. Hayes, guardian, Oakland, Calif. Filed Aug. 16, 1920. Serial No. 404,018. 1 Claim. (Cl. 89—25.)



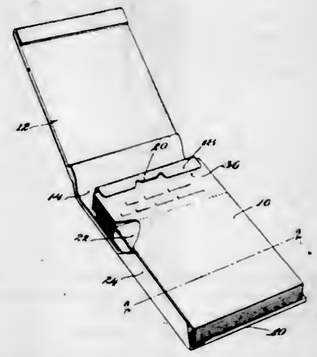
A breech mechanism for cannon comprising an arm pivoted to the barrel carriage, a bracket pivoted to the arm and carrying a breech block structure, and coöperating guides on the bracket and carriage for maintaining the alinement of the breech mechanism and holding the same in position when the arm is moved relative to the carriage.

1,382,797. DRAFT-DOOR-OPENING DEVICE. ROBERT BARCLAY MOON, Philadelphia, Pa. Filed Oct. 23, 1920. Serial No. 419,081. 5 Claims. (Cl. 161—8.)



3. A saddle for a time-set prime-mover comprising an integral member formed upon an arc of a circle and provided with an apertured ear upon each side thereof and with a downwardly inclined lug at the rear thereof disposed intermediate said ears and an angular bracket for supporting said saddle the lower arm of which is in a plane paralleling the plane of the seat of said saddle.

1,382,798. MANIFOLD-BOOK. CHARLES W. POTTER, Waltham, Mass. Filed Aug. 25, 1919. Serial No. 319,612. 4 Claims. (Cl. 282—8.)



1. A cover for a manifold book provided with means for holding a pad of leaves and with a pair of flexible strips secured together and to said cover at one end thereof and adapted to hold one edge of a carbon sheet between them, one of said strips having a recess adjacent its free end and the other of said strips having a struck up tongue adjacent its free end adapted to engage said recess for locking the two strips together.

1,382,799. BELT-FASTENER. GEORGE E. PURPLE, La Grange, Ill., assignor to Flexible Steel Lacing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1919. Serial No. 279,965. 8 Claims. (Cl. 24—37.)

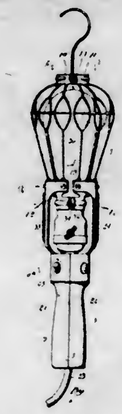


8. A device for connecting the abutting ends of a belt, or the like, comprising two opposed plates lying on opposite sides of said belt and each extending across the abutment of the belt portions, said plates being beveled on their outer and inner sides at the ends thereof whereby no substantial change in the plane faces of the belt is apparent, adjustable means provided with enlarged head portions for securing said plates together, said plates also being provided with registering openings which are surrounded with inwardly extending inclined counter-sunk portions to engage said belt and to seat the enlarged portions of said securing means.

1,382,800. COMBINED LAMP-GUARD AND HANDLE. GEORGE E. PURPLE, La Grange, Ill., assignor to Flexible Steel Lacing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1919. Serial No. 280,217. 8 Claims. (Cl. 240—54.)

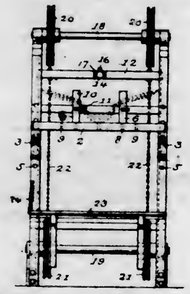
2. A combined lamp guard and handle comprising a lamp guard having two portions pivotally connected to-

gether which between them embrace the lamp bulb, a handle comprising two portions which between them embrace the conductor leading to the lamp and means for



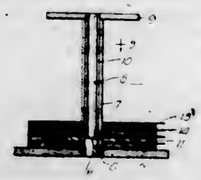
connecting one of said handle portions to one of said lamp guard portions, and the other handle portion to the other lamp guard portion.

1,382,801. AUTOMOBILE-SPRING COMPRESSOR. EDWARD M. REEVES, Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,506. 6 Claims. (Cl. 29—87.1.)



1. In a spring compression machine, a main frame, a work table on said frame, a movable compression head guided in the main frame, a horizontal compressor jaw attached to said head in superimposed relation to the work table, a foot lever, and operative connections between said lever and said compressor head.

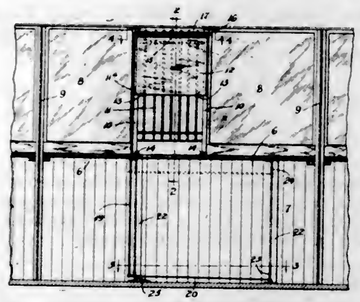
1,382,802. WATCHMAN'S-CLOCK-DIAL HOLDER. THOMAS A. RENDLE, Chicago, Ill., assignor to Hardinge Brothers, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1919. Serial No. 332,422. 5 Claims. (Cl. 129—3.)



1. A record holder comprising a base, an upright post secured thereto, a second post telescoping with the first post, a plate secured to the outer end of the second post, a plurality of indices, each provided with an opening, said posts extending through said openings and means preventing relative rotative movement between the posts and indices.

5. In a record dial holder, the combination of a base plate, a hollow post thereon, a second hollow post greater in cross section than the inner cross-section of said first post and arranged when inserted in said first post to contract and to provide frictional engagement therewith, said posts together providing means for receiving and holding a plurality of indices.

1,382,803. PROTECTING DEVICE FOR BANK-WINDOWS. THOMAS H. ROBBINS, Ladysmith, Wis., and EUGENE P. ROBBINS, Minneapolis, Minn. Filed Aug. 25, 1919. Serial No. 319,633. 2 Claims. (Cl. 268—2.)



1. The combination with the framework of a bank window having a window opening therein and a stationary counter at the bottom of said opening, of a normally elevated protecting plate extending upwardly from the top of the window opening and hinged to the window frame adjacent the top of the said opening, means above said window opening for holding said plate in its normal position, said plate being adapted to swing downwardly to close the window opening, means tending to swing said plate to its closed position when the same is released, a tripping means for releasing said plate to permit it to swing to closed position, and locking means on said counter to hold the plate in closed position.

1,382,804. INCENDIARY MIXTURE. WALTER T. SCHEELE, Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,569. 7 Claims. (Cl. 52—23.)

1. A warfare composition containing hexamethylenetetramin and sodium peroxid.

1,382,805. INCENDIARY MIXTURE. WALTER T. SCHEELE, Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,570. 11 Claims. (Cl. 52—23.)

1. An incendiary mixture containing hexamethylenetetramin, sodium peroxid and paraffin.

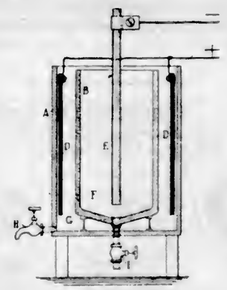
1,382,806. INCENDIARY MIXTURE. WALTER T. SCHEELE, Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,571. 10 Claims. (Cl. 52—23.)

1. An incendiary mixture containing hexamethylenetetramin, sodium peroxid, and an oil.

1,382,807. INCENDIARY MIXTURE. WALTER T. SCHEELE, Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,572. 3 Claims. (Cl. 52—23.)

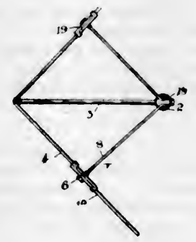
1. An explosive mixture containing hexamethylenetetramin and sodium peroxid in substantially the proportions of 22.5% and 77.5%.

1,382,808. PROCESS OF PRECIPITATING ALUMINIUM COMPOUND. MATHIAS OVROM SEM, Christiania, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Filed Apr. 23, 1918. Serial No. 230,250. 11 Claims. (Cl. 204—9.)



1. In the recovery of aluminium compounds, the process which comprises effecting precipitation thereby subjecting a solution containing an aluminium mineral acid salt to electrolysis and thereby effecting precipitation of an aluminium compound at the cathode.

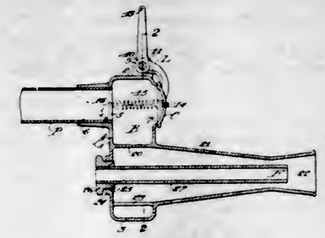
1,382,809. RUDDER ATTACHMENT FOR BOATS. ARCHIBALD DUNLOP STEWART, Toronto, Ontario, Canada. Filed Mar. 25, 1921. Serial No. 455,448. 8 Claims. (Cl. 114—145.)



1. In a rudder attachment for boats, the combination of a rudder post rotatably mounted at the stern of a boat; a rearwardly directed frame mounted on said post; a pair of plates hinged on the rear of said frame; and means for swinging said plates to and from a position alongside and approximately parallel to the frame.

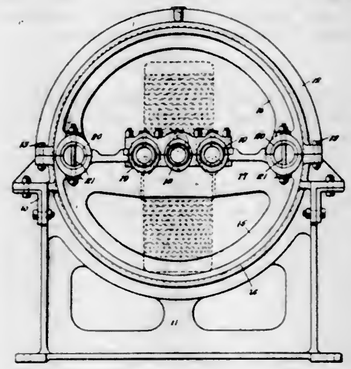
1,382,810. GAS-ENGINE MUFFLER. WILLIAM STORRIE, Providence, R. I., assignor to Apco Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed May 27, 1919. Serial No. 300,136. 6 Claims. (Cl. 137—160.)

2. In a muffler for gas-engines, the combination of a one-piece casing comprising a vertically arranged box-like expansion-chamber having a flanged inlet on its forward side adapted to receive the end of the exhaust-pipe of the engine and a cut-out port on its rearward side arranged opposite and directly in line with said inlet, a hinged cover for closing the cut-out port, and a discharge pipe formed integral with the expansion-chamber and extending



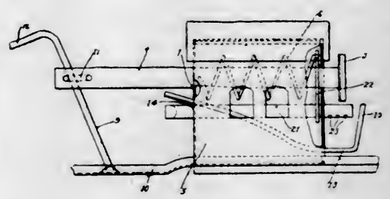
through the rear wall thereof below the inlet to provide an interior compartment with inlet ports in its walls communicating with the interior of the expansion-chamber.

1,382,811. ENGINE-FRAME. PATRICK J. MONAHAN SULLIVAN, Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y., a Corporation of New York. Filed May 2, 1919. Serial No. 294,264. 9 Claims. (Cl. 121—194.)



1. A supporting frame for engines, including a frame member having a crank shaft bearing and connections to the engine cylinder, and means for supporting said frame member to permit of its free and complete rotation about the axis of the crank shaft.

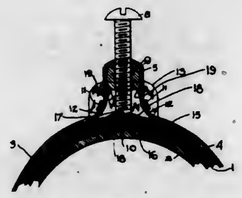
1,382,812. TOY. JOHN C. TURNER, Dayton, Ohio. Filed Mar. 12, 1920. Serial No. 365,134. 11 Claims. (Cl. 46—37.)



1. In a toy, the combination with a spring actuated plunger to impart movement to a car, and means to retain

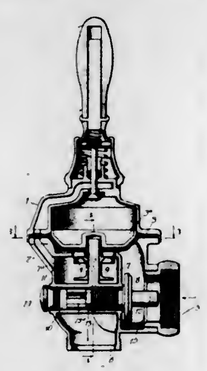
said plunger in a retracted position, of a tripping device mounted adjacent to said plunger and having a part extending slightly beyond the end thereof and arranged to be actuated by the car as the latter approaches said plunger to cause said plunger to be released from said retaining device.

1,382,813. CLAMP. CHARLES VITEK, Omaha, Nebr. Filed Dec. 8, 1919. Serial No. 343,211. 7 Claims. (Cl. 24—19.)



4. In a clamp for connecting two telescoping tubular members, a pair of flexible legs embracing the outer member and provided with an integral connection at one end and with means for adjustably connecting the free ends of the legs, a saddle between the integral connection and the outer telescoping tubular member, means coöperating with said saddle for exerting a tensional strain upon said legs to force them with the said saddle into circumferential engagement with the outer tubular member, and elements on said saddle for retaining the leg portions close to the saddle and to prevent spreading thereof.

1,382,814. FLUSHING-VALVE. EARL G. WATROUS, Chicago, Ill. Filed Sept. 13, 1917. Serial No. 191,227. 2 Claims. (Cl. 137—93.)



1. In a flushing valve, the combination of a casing having a laterally opening inlet, a downwardly opening outlet, and internal walls dividing the casing interior into inlet and outlet chambers communicating through a valved orifice, an axially movable valve for the inlet opening within the inlet chamber and having a stem extending through a wall of said inlet chamber and wholly within the confines of the casing, said casing having an opening for giving access to said stem, and a closure for said opening.

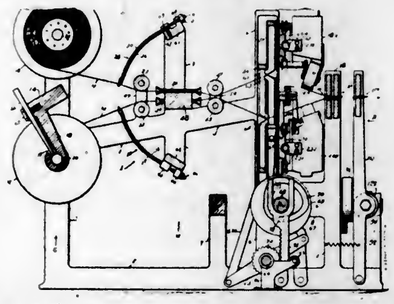
1,382,815. TRACTOR-WHEEL. GEORGE L. BANKS, Huntington Park, Calif. Filed Nov. 22, 1919. Serial No. 339,976. 5 Claims. (Cl. 301—40.)

5. A detachable tread for a wheel rim, comprising a chain composed of links having a central portion and divergent portions extending therefrom, forming substantially Y-shaped arcuate members, said members being substantially L-shaped in cross section to form horizontal bearing treads and vertical traction treads, the outer extremities of the divergent portions being bent parallel with the central portion, co-axial perforations in the parallel portions of the traction treads, a perforation in the trac-



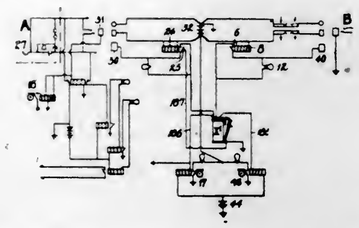
tion tread of the central portion, detachable means for connecting the links, comprising cross bolts passing through the perforations of the divergent portions and the central portion of contiguous links and having spacers on each side of said central portion, and ears extending inwardly from the bearing treads adjacent their parallel portions.

1,382,816. WOOD-WEAVING LOOM. OSMOND T. BELCHER, Los Angeles, Calif. Filed Nov. 7, 1919. Serial No. 336,395. 10 Claims. (Cl. 139—32.)



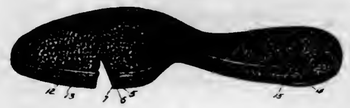
1. In a wood weaving loom, in combination, means for feeding a warp composed of strips of wood, means for alternately crossing alternate strips of warp, a shuttle adapted to grip throughout their length and carry thin strips of woods comprising a weft in between the crossed strips of warp, means for putting the shuttle to place the strip of weft in position in the weave, means for releasing the weft strip from the shuttle and means for operating the shuttle in and out of the loom.

1,382,817. MEANS FOR AUTOMATICALLY RECORDING CALLS IN TELEPHONE SYSTEMS. WILLIAM JOHN BLAIR, Melbourne, Victoria, Australia, assignor to Alexander Eaton Woods, Melbourne, Australia. Filed Apr. 28, 1917. Serial No. 165,163. 9 Claims. (Cl. 179—9.)



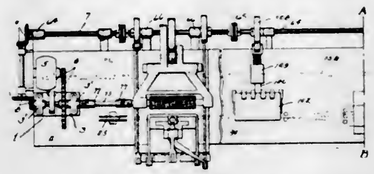
1. In telephone systems, an effectual call meter, an ineffectual call meter, a circuit for each meter, a relay in each circuit, a control relay having two armatures respectively controlling the circuits of the said two relays, said armatures being so arranged that one requires a greater strength of current to operate it than the other, and means on the control relay controlled by the armatures for completing one or the other of said relay circuits according as to whether the call is effectual or ineffectual.

1,382,818. INSOLE AND METHOD OF MAKING. DARIUS W. BUNKER, Brookline, and CHARLES M. BRADFORD, Dorchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 31, 1918. Serial No. 247,619. 14 Claims. (Cl. 36—22.)



1. An insole for welted boots and shoes comprising a blank of sheet insole material shaped and molded to fit the exact area of the last bottom formed by the curves which define the heel-seat, the arch and the fore-part spring, and provided with a marginal groove forming a sewing-rib to which the upper and welt are stitched, standing from one face of the blank at a uniform angle to all curves produced by the molding thereof.

1,382,819. SAW-MAKING MACHINE. AXEL CARLSON, Berkeley, Calif. Filed Feb. 9, 1920. Serial No. 357,351. 11 Claims. (Cl. 76—112.)



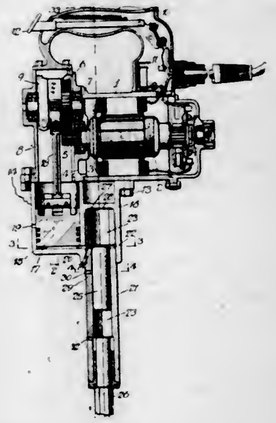
1. A machine for cutting saw blades from continuous strips of metal comprising a frame, a transversely movable cutter head carried thereby, a clamping mechanism comprising a movable jaw for clamping a plurality of saw strips, a member movable at right angles thereto for aligning the edges of said saw strips and means for feeding said strips.

1,382,820. MILK-BOTTLE-CAP REMOVER AND RETAINER. OLE CARLSON, Los Angeles, Calif. Filed Jan. 26, 1920. Serial No. 354,124. 1 Claim. (Cl. 215—53.)



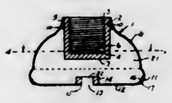
A milk bottle removing and retaining device comprising a knob, an L-shaped member having its vertical leg threaded and seated in the lower portion of said knob, the horizontal leg of said L-shaped member being disposed a short distance below the lower end of the knob and the end of said horizontal leg being pointed, a concavo-convex disk loosely arranged on the vertical leg of the L-shaped member and disposed below the lower end of the knob, and a bur formed on the vertical leg of said L-shaped member below said disk.

1,382,821. POWER-HAMMER. CHARLES B. COATES, Chicago, Ill., assignor to Chicago, Pneumatic Tool Company, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 6, 1920. Serial No. 356,601. 13 Claims. (Cl. 125—34.)



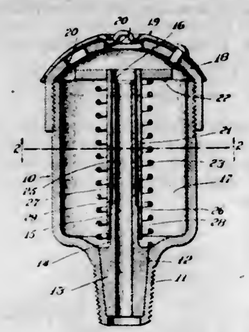
1. In a power hammer, the combination of a cylinder having a piston chamber, a hammer piston reciprocable in such chamber, a compression chamber communicating with the piston chamber, means for intermittently compressing the air in such compression chamber to a high or working pressure, said two chambers having communicating ports, one being always open to supply compressed air to initiate the movement of the piston on its power stroke and the other being intermittently open so as to cause a discharge of high pressure air against the hammer piston after it has started on its power stroke.

1,382,822. SPRAY-NOZZLE. CLYDE R. COLLINS, Los Angeles, Calif., assignor of one-half to Central Specialty Company, Los Angeles, Calif., a Corporation of California. Filed June 9, 1919. Serial No. 302,982. 2 Claims. (Cl. 299—114.)
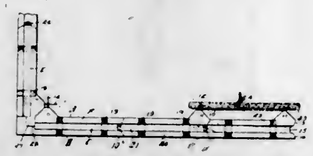


1. A spray nozzle comprising an internally screw threaded cap having diametrically arranged tangential openings that are disposed in a plane at right angles to the axis of the cap, a casing having a neck fitting the cap and the body of the casing flaring outwardly from the cap, a rim formed around the large end of the casing, a face plate fitting in the rim and having a central opening, and a ring secured against the inner face of the face plate around the central opening.

1,382,823. AUTOMATIC OIL-CUP. CLAUDE E. COX, Detroit, Mich. Filed Jan. 29, 1921. Serial No. 441,026. 6 Claims. (Cl. 184—69.)



6. In an oil cup of the character described, a relatively stationary post member and a relatively vibratable sleeve member, these shaped as to their confronting surfaces to present an oil space therebetween that is variable in area as the sleeve is vibrated relatively to the post.

1,382,824. PLASTIC-BLOCK STRUCTURE. WILLIS L. CUTLER, Legrand, Iowa. Filed Oct. 28, 1919. Serial No. 334,055. 1 Claim. (Cl. 72—40.)



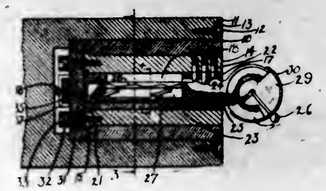
In a device of the class described, a block structure for corners, comprising a block, having a groove, and a block arranged at right angles to said first block having a tongue received in said groove, said blocks having inward projections formed with adjacent fitting beveled faces for making a relatively thick corner, and reinforcing members mounted in said projection arranged to overlap each other within the corner spaced from the block, where they may be fastened together.

1,382,825. SEPARATION OF BORAX FROM POTASSIUM SALTS. CLINTON E. DOLBEAR, San Francisco, Calif., assignor to Industrial Research Co., San Francisco, Calif., a Business Association. Filed Oct. 26, 1920. Serial No. 419,751. 10 Claims. (Cl. 23—22.)

1. The process of separating borax from mixtures of potassium salts and borax, which consists in heating the mixture in moist condition; and separating the resultant liquor with its dissolved content, from the undissolved salts.

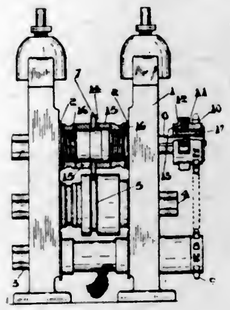
1,382,826. LOCK AND KEY. BASCOM A. DOVE, Dallas, Tex. Filed Jan. 8, 1920. Serial No. 350,160. 7 Claims. (Cl. 70—47.)

3. In a device of the character described, a rotatable barrel having a set of tumbler openings formed therein, a cylinder rotatable within the barrel and having a set of tumbler openings to coact with the first named set and also having a second set of tumbler openings, tumblers mounted within the set of openings in the barrel and the first named set of openings in the cylinder, a core rotatable within the cylinder and having a longitudinal slot adapted to receive the inner ends of said tumblers, said core having a set of tumbler openings for coacting with the second named set of the cylinder, said core having a longitudinal key receiving opening, tumblers adapted for operation within the set of openings in the core and the second set of openings in the cylinder, a key



for insertion within the longitudinal opening of the core and having a set of bits for coaction with the tumblers in the openings of the core and also having a longitudinal recess, a rod extending longitudinally within the recess and having a set of bits to coact with the first named tumblers, means to move the rod tranaversely with relation to the key, and a bolt moved by the cylinder.

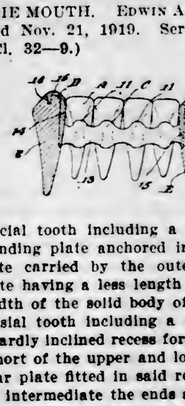
1,382,827. ROLLING-MILL. GEORGE EDWARD FOSTER, Belleville, Ontario, Canada. Filed Jan. 17, 1920. Serial No. 352,174. 2 Claims. (Cl. 80—54.)



2. In a rolling mill, the combination of a frame; a bed roll having an arbor journaled in the frame; a creaser roll having an arbor journaled in the frame; a shaft journaled in the frame parallel to the roll arbors; gearing between the shaft and the bed roll arbor; a sprocket wheel on the projecting end of the shaft; a sprocket wheel on the projecting end of the creaser roll shaft; a sprocket chain connecting said sprocket wheels; and means permitting the part to which one of the sprocket wheels is connected to run ahead of the sprocket wheel, the other sprocket wheel being rigidly secured in position.

1,382,828. SELF-ADJUSTING WIRE FLANGE FOR PIANO-ACTIONS. FRANK L. GEORGE, Los Angeles, Calif., assignor of one-fourth to Burton J. Neill, San Francisco, Calif. Filed July 22, 1920. Serial No. 398,235. 8 Claims. (Cl. 84—251.)

1. In a piano action the combination with a supporting rail, of a movable element, a flange, means for positioning said flange on said supporting rail, and transversely expanding the same, said flange having bearing ends engag-

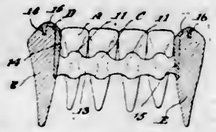


ing said movable element to form a pivotal connection, said bearing ends being yieldably urged toward said movable element.

1,382,829. METAL PULLEY. HENRY J. GILBERT, Saginaw, Mich. Filed July 28, 1919. Serial No. 313,796. 12 Claims. (Cl. 64—18.)

1. A split metal pulley, each half of which comprises a rim and a center formed hollow with opposite side walls, a central hub portion, and web portions between the hub portion and the rim, and means located between said side walls and engaging the rim of one-half and a web portion of the other half, for securing the two pulley halves together.

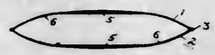
1,382,830. FORM OF ARTIFICIAL TOOTH AND MEANS OR METHOD OF ANCHORING SAME INTO POSITION IN THE MOUTH. EDWIN A. HAGAMAN, Madelia, Minn. Filed Nov. 21, 1919. Serial No. 339,612. 6 Claims. (Cl. 32—9.)



1. An artificial tooth including a solid body, a longitudinally extending plate anchored in said body, and an attaching plate carried by the outer end of the first mentioned plate having a less length and width than the length and width of the solid body of the tooth.

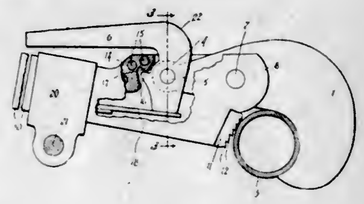
4. An artifisial tooth including a solid porcelain body having an inwardly inclined recess formed in its inner face terminating short of the upper and lower edges thereof, a flat rectangular plate fitted in said recess, said recess being positioned intermediate the ends and side faces of the body, and an attaching plate carried by the outer end of the plate.

1,382,831. PNEUMATIC CUSHION. FRANK C. HILKER, Fort Wayne, Ind. Filed Apr. 11, 1921. Serial No. 460,567. 2 Claims. (Cl. 5—1.)



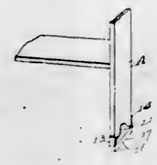
1. A pneumatic sack for a pillow or cushion formed of two sheets of rubber the edges of which are united, and each sheet being composed of laminæ of different degrees of stiffness, the lamina of greater stiffness being of less area than that of the other lamina.

1,382,832. PIPE-TONGS. RICHARD D. HILL, Fort Worth, Tex., assignor to P. G. Krohn, Electra, Tex. Filed Jan. 29, 1921. Serial No. 440,913. 2 Claims. (Cl. 81—78.)



1. Pipe tongs comprising a relatively movable jaw provided with a recess to conformably receive a drill stem coupling or pipe, a smaller stationary jaw provided with teeth, cheek pieces on each side of the jaws, and a lever pivoted to the inner end of the larger jaw and to the cheek pieces, said movable jaw also pivoted approximately midway of its ends to the cheek pieces, means adjacent the lever, whereby when the lever is moved away from or toward the tongs the movable jaw will be moved away from or toward the smaller jaw, and means for locking the lever in operative position when the lever is released.

1,382,833. NON-SLIPPING FOOT FOR LADDER-LEGS. ZENUS L. HURD, Nashville, Tenn. Filed Sept. 4, 1920. Serial No. 408,185. 1 Claim. (Cl. 228—62.)

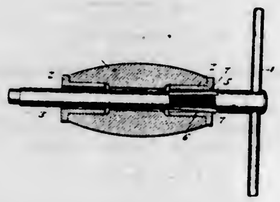


A foot for step ladder legs comprising a base plate turned up at its ends to form parallel end walls, the side edges of the plate being formed with upwardly extending side walls, said side walls extending inwardly, then outwardly and being resilient, the side and end walls at their junction with the base plate being substantially conterminous with the side and end edges of the base plate and said side and end walls forming a socket to receive said leg, and a pad of rubber disposed against the under face of the base plate and riveted thereto, said end walls extending at an angle to the vertical and being parallel to each other.

1,382,834. BUSHING-TOOL. ARTHUR K. JOHNSON, Holly, Colo. Filed Dec. 29, 1917. Serial No. 209,599. 3 Claims. (Cl. 29—88.2.)

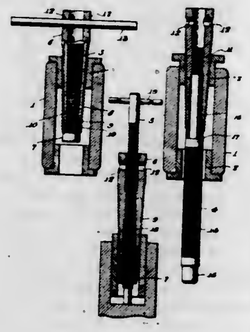
1. A tool for removing bushings comprising a shank of a length adapting it to extend through a bushing, pro-

vided at one end with a transverse impact surface and also having means whereby it may be turned, and a ta-



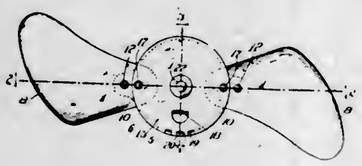
pered thread forming member carried by the shank between its ends.

1,382,835. BUSHING-TOOL. ARTHUR K. JOHNSON, [illegible], Colo. Filed Oct. 25, 1918. Serial No. 259,664. 4 Claims. (Cl. 29—88.2.)



1. A bushing extractor comprising a member having a tapered thread-forming outer surface and a longitudinal bore and provided with means whereby it may be rotated, and an extracting member engageable with said bore for imparting a longitudinal impulse to the thread-forming member.

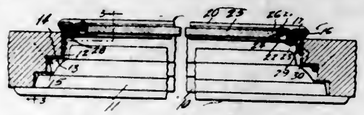
1,382,836. ADJUSTABLE PROPELLER-BLADE. EDWIN JUELSON, Chicago, Ill., assignor to American Aero Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1918. Serial No. 261,966. 6 Claims. (Cl. 170—162.)



6. In a propeller a hub, two or more wings pivoted to said hub on axes substantially parallel to the axis of the latter, and means angularly adjustable about the axis of said hub and engaging said wings to secure them in adjusted position.

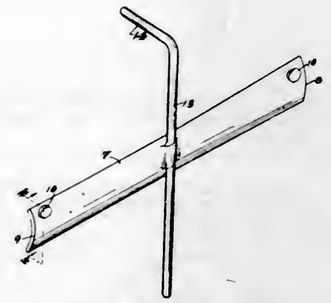
1,382,837. REFRIGERATOR-DOOR. MARTIN JUREK, Dallas, Tex. Filed Feb. 15, 1921. Serial No. 445,086. 4 Claims. (Cl. 45—71.)

1. The combination with a refrigerator having a main door opening, and a maid door to close said opening, of an attachment frame arranged within the main door opening and formed separate therefrom, means for securing



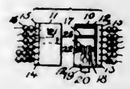
the attachment frame to the wall of the main door opening, and a plurality of individual doors pivotally mounted upon the attachment frame.

1,382,838. SLEEVE-PULLER. NICHOLAS E. KOCH, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,585. 5 Claims. (Cl. 29—88.2.)



1. A sleeve puller having means for engaging an opening formed in the sleeve, said puller having transversely spaced openings and a handle extending across said puller for withdrawing the puller and received through said openings and the sleeve engaged thereby.

1,382,839. CATCH FOR JEWELRY AND THE LIKE. JOHN C. LAPP, Newark, and JOHN A. HALEY, Irvington, N. J. Filed Feb. 26, 1921. Serial No. 447,982. 3 Claims. (Cl. 24—211.)

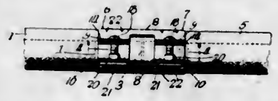


2. A catch comprising two members, one member having a well and having marginal walls, a slide extending through one end wall and one wall of the well, the end of the slide being split and having shoulders on its outer edge to engage with the wall of the well to limit its outward movement, the outside edges of the split portion being convex so as to yieldingly hold it, by the edges of the opening in the wall of the well, in its inner and outer positions, the second member having a loop to enter the well and to substantially fit therein and adapted to receive the slide to lock the members together.

1,382,840. HOSE-MENDER. AXEL LEVEDAHL, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed July 30, 1919. Serial No. 314,375. 6 Claims. (Cl. 285—78.)

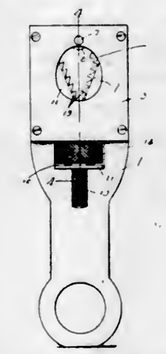
1. The combination with two hose sections having meeting ends, of a mender, comprising an inside core removably inserted into said hose sections at their meeting ends and having a rib for gaging the depth that the core penetrates the hose sections, the portions of the core between its ends and the rib being straight and smooth

and free from projections, clamping means consisting of tubular clamps split longitudinally and applied about the hose sections on opposite sides of their meeting ends, each clamp having its ends at the line of severance bent outward to provide flanges, and means for tightening



each clamp about its hose section, comprising a nut applied against one of the flanges of each clamp and having an internally threaded portion extending inwardly therethrough toward the opposite flange, and a clamp screw inserted through the last named flange and engaging the threaded portion of said nut.

1,382,841. THREADING-TOOL. LEON T. LYNN, Berkeley, Calif. Filed Nov. 25, 1919. Serial No. 340,675. 12 Claims. (Cl. 10—111.)



1. A tool for recutting screw threads comprising a head, supporting rollers revolubly mounted therein, die members slidably mounted therein and in opposition to said rollers, said die members being self-adjusting in a lateral direction within said frame.

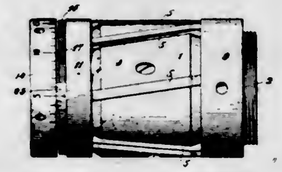
1,382,842. DEVICE FOR ALINING AND FINISHING SHAFT-BEARINGS AND THE LIKE. ALBERT A. MARTELL, Mansfield, Mass., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Sept. 28, 1915. Serial No. 53,119. 12 Claims. (Cl. 77—55.)



1. A temporary bearing comprising a member having a plurality of threaded holes; a set screw for each hole and threaded to engage the thread of said hole; a plunger operative in each of said holes; a second member rotatably mounted in the first member and held in position by said plungers and a third member rotatably mounted in the second member and having a bore eccentrically disposed with relation to the exterior of said third member.

12. A device of the class described, a reamer shaft, a reamer on said shaft, a temporary bearing slidable longitudinally on said reamer shaft in combination with a conical faced member to support said reamer shaft within a permanent bearing, positively engaging means between said conical member and said permanent bearing, and hand holds whereby said conical faced member may be rotated to cause said positively engaging means to rigidly secure said conical member within said permanent bearing.

1,382,843. MOVABLE ZERO-SCALE FOR REAMERS AND THE LIKE. ALBERT A. MARTELL, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Feb. 1, 1918. Serial No. 214,855. 10 Claims. (Cl. 77—75.5.)



1. In a reamer or the like, in combination, a reamer body, adjustable blades carried by said reamer body, a non-rotatable ring slidable on the body of said reamer, an undercut portion on said non-rotatable ring, a departure scale member having a part adapted to fit the undercut portion, means to lock said departure scale member in predetermined adjusted positions relatively to said non-rotatable ring, and a rotative member provided with a micrometer scale adapted to read from the zero on said departure scale whereby the adjustment of said departure scale changes the point of departure relative to which said micrometer scale is adapted to read.

1,382,844. RELINER. ARCHIBALD O. MASON, Highland Park, Ill. Filed Mar. 2, 1920. Serial No. 362,651. 2 Claims. (Cl. 152—18.)

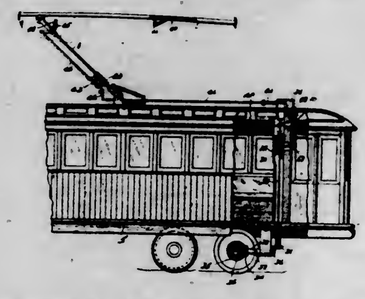


1. A reliner for pneumatic tire casings, comprising an unbroken strip of material formed separate from the casing adapted to fit within the casing and being of a length which will extend around the entire inner circumference of said casing, a coating of cement on the outer face of said length of material, and a protecting covering arranged over said cement.

1,382,845. STREET-INDICATOR FOR RAILWAY-CARS. DE ELLA B. MAYBERRY, Chicago, Ill., assignor of one-fourth to John W. Harrison, Chicago, Ill. Filed Dec. 18, 1918. Serial No. 267,323. 1 Claim. (Cl. 40—46.)

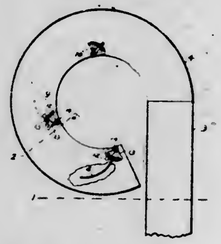
The combination with a car, having a rotary axle, of a street indicator comprising a traveling apron; means for intermittently connecting said axle and said apron, comprising a continuously rotating movable clutch member having connection with said axle; a stationary clutch member having connection with said apron; a shifting collar rotatably mounted on said movable clutch member; means for intermittently tripping said movable clutch member into operative position; arms on said collar; a plate carried by said stationary clutch member with which said arms slidably engage; a projection on said collar; and a table against which said projection is adapted to engage to hold said movable clutch member in

operative position after being tripped into said position, said table having a slot to receive said projection, where-



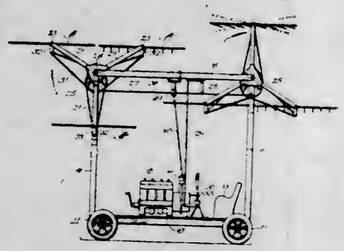
by said clutch will automatically move to inoperative position after rotation of the apron a predetermined distance, substantially as described.

1,382,846. SEPARATOR. CARLE J. MERRILL, Portland, Me. Filed July 24, 1919. Serial No. 313,013. 5 Claims. (Cl. 183—79.)



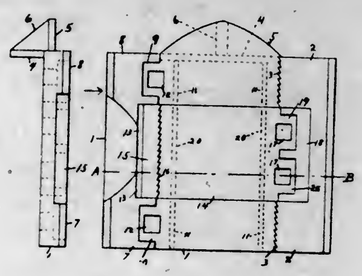
1. A separator for heavier-than-air material consisting of a spout open along the entire length of one side to permit the free escape of air and curved or bent from end to end toward the open side with a substantially uniform radius of curvature so that the escaping air through the open side at any given point will be unopposed by the escaping air from any other portion of the spout and having a delivery end for delivering the separated material longitudinally of the spout.

1,382,847. AEROPLANE. CARL F. NAYER, Chicago, Ill. Filed Jan. 17, 1919. Serial No. 271,573. 14 Claims. (Cl. 244—11.)



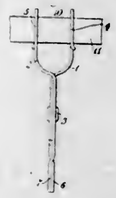
1. An aeroplane including two sets of rotatable lifting planes with control means for maintaining the planes in different parallel positions throughout their rotation, and means whereby said planes are effective throughout part only of their rotation, the planes of the two sets being staggered so that the planes of one set overlap the plane of the other set during rotation of the planes.

1,382,848. TIE-PLATE AND RAIL-ANTICREEPER. ANDERSON OOLEY, Colorado Springs, Colo. Filed Oct. 29, 1920. Serial No. 420,492. 4 Claims. (Cl. 238—304.)



1. A device of the class described comprising a primary plate adapted to be mounted on a railway tie, having suitably located spike holes and a main hole therein, and toothed jaws thereon; and a secondary plate having suitably located spike holes therein and a toothed jaw thereon, slidably disposed within said main hole in said primary plate; the toothed jaws of each edge of a flange of a railway rail, for the purposes set forth.

1,382,849. FASTENING DEVICE. ALBERT HENRY FRANKS PERL, Chiswick, England. Filed Jan. 26, 1920. Serial No. 354,229. 6 Claims. (Cl. 24—232.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



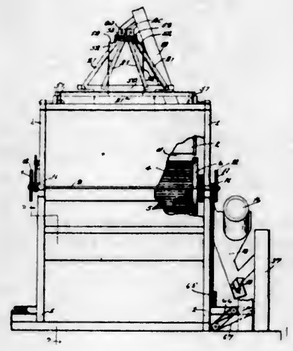
6. A fastening device comprising pivotally connected members having coöperating gripping elements formed at one end and movable toward each other and into contact for gripping operations, the opposite end of each member being formed with a hook opening in the direction of movement of the gripping element of such member for gripping action, whereby the hooks are reversed in a line axially of the members when the gripping elements are in gripping coöperation.

1,382,850. APPARATUS FOR BLEACHING ALMONDS. GEORGE W. PIERCE, Davis, Calif., assignor to California Almond Growers Exchange, San Francisco, Calif., a Corporation of California. Filed Aug. 24, 1920. Serial No. 405,703. 17 Claims. (Cl. 99—2.)

1. The combination with an apparatus provided with a sulfuring chamber, of an open cylindrical agitator rotatably mounted therein, means for imparting continuous rotary movement to said agitator, and means for controlling the feed of almonds within and the discharge therefrom from within the agitator during the rotary movement thereof.

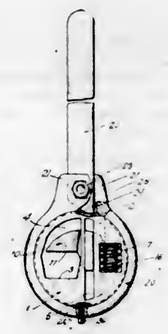
16. In an apparatus for the described purpose provided with a processing chamber, of a main hopper for almonds and a receiving hopper for treated almonds separated therefrom, an open rotary agitator for receiving almonds to be processed interposed between said hoppers and disposed within the processing chamber, a controllable

gate for the main hopper, means thrown into action at times during the rotary movement of the agitator for controlling the opening and closing of the gate for the main hopper, devices for separating the delivery of the



treated and the untreated almonds relative to the receiving hopper, and means for removing the untreated almonds from said hopper for returning the same to the main hopper.

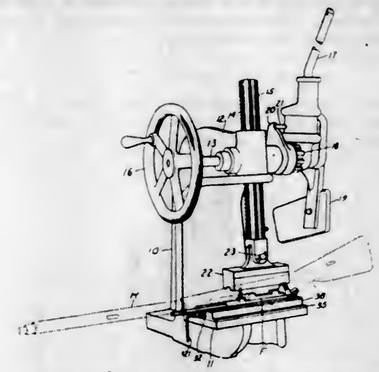
1,382,851. ADJUSTABLE FRICTION-WRENCH. JULIUS A. PITSCH, Los Angeles, Calif. Filed June 2, 1920. Serial No. 385,925. 3 Claims. (Cl. 81—58.)



2. A wrench comprising a circular wrench head having a grooved periphery provided with a channel, a sleeve received about said wrench head, a handle pivoted to said sleeve and extending within said groove, the end of the handle within the groove being arranged to engage and be disengaged from said wrench head when turned in opposite directions, and a set screw projecting from said sleeve into the peripheral groove and channel of said wrench head.

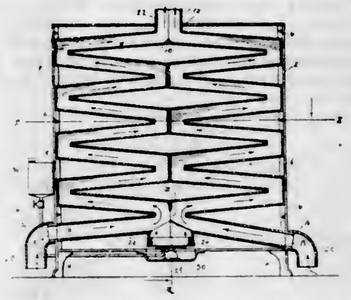
1,382,852. METHOD AND APPARATUS FOR FINISHING GUNSTOCKS. ERNEST W. PITTMAN, Flushing, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 25, 1918. Serial No. 263,985. 8 Claims. (Cl. 144—137.)

1. In the manufacture of recessed wooden articles, the recesses of which are designed to receive metal parts, the method of forming and fixing the contour of the recess walls that consists in applying a heated die, under pres-



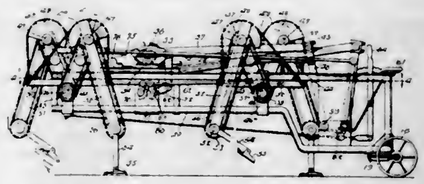
sure, for such period of time, as to insure permanence of contour without charring the material.

1,382,853. OIL-BURNER RADIATOR. ADOLPH M. PREISS, Kansas City, Mo. Filed Nov. 1, 1916. Serial No. 128,973. 2 Claims. (Cl. 126—91.)



1. A radiator construction comprising a pair of radiator members forming oppositely arranged zigzag sections each having an air inlet opening at its lower end, the lower ends of said sections having portions coöperating to form a burner housing in communication with the passages through said sections, a burner located within said housing for heating said sections and the air as it passes over said burner, and a skeleton supporting frame formed in duplicate sections and provided with means for securing the same together with said radiator sections between them with the corresponding portions of the latter in abutting relation.

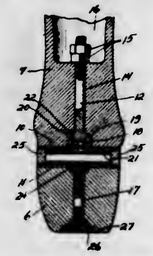
1,382,854. PERAMBULATING TRACTOR. PETER A. RASMUSSEN, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,451. 16 Claims. (Cl. 180—8.)



1. In a device of the character described, the combination of a motor, tractor elements having a stepping action

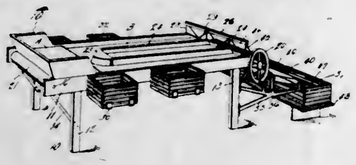
driven by said motor, a driven shaft operable by said motor, a differential gear mechanism driven by said shaft, an oscillatory shaft operably connected with the gear mechanism, said last named shaft forming a means for actuating said tractor elements.

1,382,855. CORDLESS ANKLE-JOINT. MILO E. RICE, Kansas City, Mo. Filed Apr. 30, 1920. Serial No. 377,984. 2 Claims. (Cl. 3—7.)



1. An ankle joint structure for artificial limbs comprising leg and foot members, a sleeve provided with means for fixedly securing the same to one of said members, and a second sleeve journaled within said first sleeve, and a bolt secured to the other of said members and formed with an eye portion encircling said second sleeve, said eye portion of the bolt having an internal key element and said second sleeve being formed with a longitudinal open keyway permitting insertion of said second sleeve within said first sleeve into keyed relation to the eye portion of said bolt.

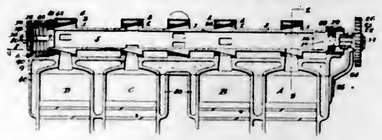
1,382,856. VEGETABLE-GRADING APPARATUS. SAMUEL C. RIGNEY, Dallas, Tex. Filed July 15, 1920. Serial No. 396,493. 8 Claims. (Cl. 130—32.)



1. In a vegetable grader, the combination with a support, of endless belt conveyer means carried by the support, said conveyer means comprising an upper belt section unsupported between its ends, and a lower belt section to receive material from the upper belt section and to permit of the turning of such material when passing thereon from the upper belt section, a supporting member arranged beneath the lower belt section to prevent downward movement thereof, segregating means extending over and longitudinally of the lower belt section to divide the same into a plurality of sections, and means to supply the vegetables to the unsupported portion of the upper belt section.

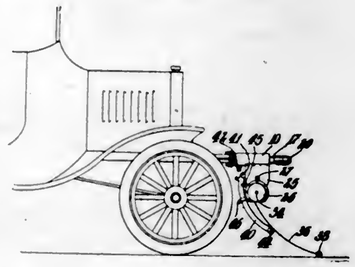
1,382,857. SELF-SEATING ROTARY VALVE. DOMENICO RONCONI, Chicago, Ill. Filed June 26, 1918. Serial No. 242,021. 3 Claims. (Cl. 123—59.)

1. In a rotary valve mechanism of the character stated, the combination with an explosion cylinder including a head, the said head having a valve seat at each of the opposite sides of the explosion chamber, each of such seats having a port in communication with the explosion chamber, a hollow rotary valve in each of the said valve seats, each of said valves having at least one port adapted for intermittently alining with their respective valve seat ports to the explosion chamber, housings that fit over the valves, each of the said housings having opposite bearing members that fit upon and attach to the valve seat portion of the cylinder head, means for



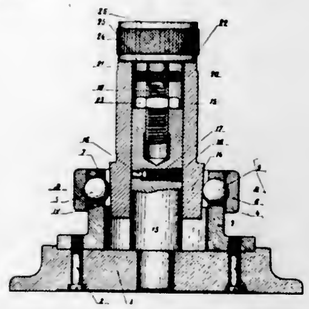
securing the said housings fluid tight onto the cylinder head, and intake and exhaust manifold connections that join with the said housings and through the housings with their respective valves.

1,382,858. VEHICLE SAFETY DEVICE. SIMON ROTHAUSKI, Akron, Ohio. Filed Feb. 3, 1921. Serial No. 442,087. 5 Claims. (Cl. 293—25.)



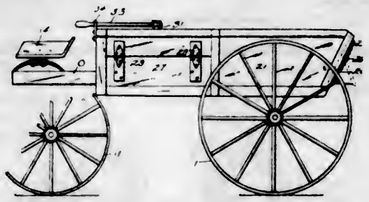
1. A vehicle fender comprising a bumper, a pair of slide-bars on which said bumper is fixed, a shaft, an apron normally wound on said shaft, power means for rotating said shaft to unwind said apron, a part holding said power means against operation, said part being released from its holding position by a sliding movement of the said bars, and a pair of arms normally held in inoperative position and adapted to be released to support said apron when said bars are so moved.

1,382,859. BORE-VERIFYING APPARATUS. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Filed Feb. 16, 1918. Serial No. 217,684. 4 Claims. (Cl. 33—178.)



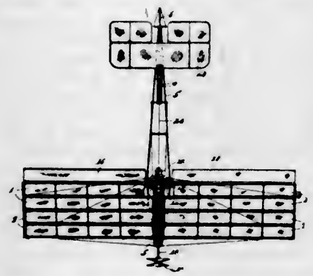
1. An apparatus for the verification of bores containing, in combination, a conical piece movable within the bore to be verified, a guide piece for said conical piece, a base supporting said guide piece, a normally fixed contact member and a checking block adapted to be placed on said conical piece and said contact member, said checking block being adapted to act as a limit gage.

1,382,860. DUMPING-BED. GEORGE E. SARGENT, Hampton, Iowa. Filed July 29, 1920. Serial No. 399,666. 3 Claims. (Cl. 298—24.)



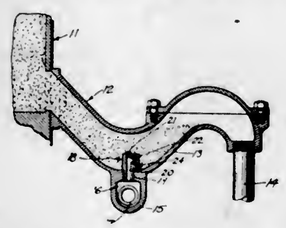
1. In a dumping device, a frame, traction devices thereon, a dumping bed on said frame, having a front wall, inclined side and back walls, bottom members connected at their upper edges and inclined downwardly and outwardly, hinged doors in the side and back walls, a single controlling device operatively connected with all of said doors, a shaft, a disk device thereon, controlling members connecting said disk device with said doors, a lever fixed to said shaft, and means for holding said lever in certain adjusted positions.

1,382,861. AEROPLANE. HENRY SCHRÖDER, Chicago, Ill. Filed May 19, 1919. Serial No. 297,984. 4 Claims. (Cl. 244—15.)



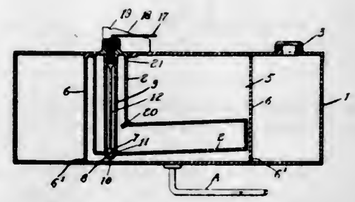
1. An aeroplane comprising a frame; planes thereon adjustable into different positions relatively to the vertical; an angularly adjustable propeller on said frame; an operative connection between said planes and said propeller for adjusting said planes upon adjustment of said propeller; supporting planes pivotally mounted on said frame on an axis arranged transversely with reference to the direction of travel thereof, said supporting planes being arranged to hang normally in substantially vertical positions; and means for limiting the rearward swing of said supporting planes, substantially at horizontal positions, substantially as described.

1,382,862. AIR-NOZZLE FOR LOCOMOTIVE-SANDERS. JOHN W. SIMPSON, Santa Barbara, Calif. Filed Jan. 26, 1921. Serial No. 440,153. 1 Claim. (Cl. 291—11.)



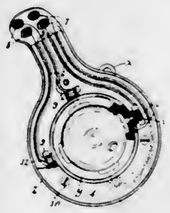
The combination with a locomotive sand discharge pipe having a substantially U-shaped trap, of an air inlet nozzle located in the lower portion of said trap and comprising a plug that is screw seated in the bottom of said trap, said plug being provided with a pair of vertically disposed ducts that are offset with respect to each other and an intermediate inclined duct connecting the inner ends of said offset ducts.

1,382,863. GASOLENE-TANK. SAMUEL SLISHMAN, Chelsea, Mass. Filed Feb. 26, 1920. Serial No. 361,383. 12 Claims. (Cl. 158—46.5.)



1. In a liquid fuel tank, a main tank, an auxiliary tank having an intake in communication with said main tank whereby filling the main tank fills the auxiliary tank, a tubular valve seat extension fixed within said auxiliary tank and having a valve seat, and an outlet and an inlet port opening into said main and auxiliary tanks, respectively, and a valve stem adjustably mounted in said extension and having a valve coöperative with said seat to simultaneously control said inlet and outlet ports, and means for manipulating said valve stem to move said valve toward and from said seat.

1,382,864. COMMUTATOR DEVICE FOR AUTOMOBILE IGNITION SYSTEMS. HENRY LUND SMITH, Paterson, N. J. Filed Mar. 28, 1919. Serial No. 285,863. 3 Claims. (Cl. 200—19.)

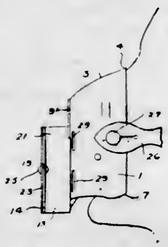


1. In combination, with a concavo-convex housing, a commutator member and a conductor member arranged therein, the commutator member and conductor member respectively including spaced commutator contact and terminal portions held bearing against each other, and one of said members being enterable to and removable from the housing at the concave side thereof independently of the other member.

1,382,865. MOLDED DEVICE. WALTER SODERLING, Reading, Pa., assignor, by mesne assignments, to Willson Goggles, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Apr. 1, 1918, Serial No. 225,890. Renewed Nov. 27, 1920. Serial No. 426,878. 2 Claims. (Cl. 179—156.)

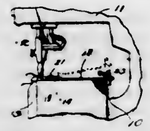
2. A molded article combining a portion adapted to fit the nose and mouth and having a feather or tapered edge

to fit closely to the wearer's face, a portion adapted to hold a telephone transmitter, and absorbent material po-



sitioned to absorb moisture of the breath, and to prevent moisture reaching the transmitter.

1,382,866. SHOE-STITCHER ATTACHMENT. CHARLEY J. SPENCER, Osceola, Iowa. Filed Feb. 17, 1920. Serial No. 359,215. 2 Claims. (Cl. 112—45.)



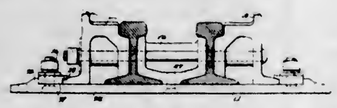
1. A shield attachment for shoe stitching machines comprising an elongated plate having an offset portion having side flanges and a rebent lip at the end thereof spaced from said flanges, said offset portion also having a transverse opening, said plate having an aperture adjacent its opposite end, a clamp having a tapered lug and a shank turnably engaged in the aperture, a washer plate on the shank portion in contact with the plate and a lever on the shank portion.

1,382,867. JEWELER'S EXHIBITION-TWEEZER. ROBERT A. STONE, Barrington, N. J. Filed Aug. 21, 1920. Serial No. 405,143. 5 Claims. (Cl. 63—30.)



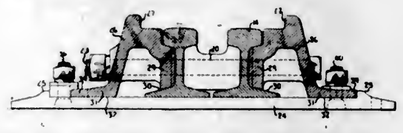
1. A device for exhibiting unmounted gems, which comprises a support having the general contour of a split ring,—gem-clamping members oppositely disposed and slidably carried by said support,—and resilient means adapted to move said clamping members into clamped position upon a gem.

1,382,868. RAILROAD-CROSSOVER. JAMES B. STRONG, Hillburn, N. Y. Filed Aug. 28, 1920. Serial No. 406,605. 9 Claims. (Cl. 246—456.)



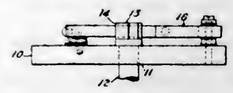
9. In a device of the class described, the combination of two pre-formed members, one member constituting a one-piece railway frog and the other member constituting a one-piece combined flange guard and easer joint, and a wedge clip tie plate for securing the members in operative position.

1,382,869. CROSSOVER. JAMES B. STRONG, Hillburn, N. Y. Filed Aug. 28, 1920. Serial No. 406,606. 11 Claims. (Cl. 246—456.)



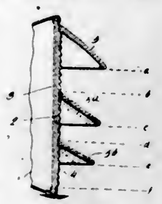
1. In a built-up railroad frog construction, the combination of a pair of service rails extending at an angle to each other, engaging at one end and fashioned to form the point of the frog, a second pair of transversely spaced apart service rails extending at an angle to each other, designed to form continuations of the first named pair across the frog and constituting wing rails extending on opposite sides of and continuous beyond the point, wedging filler blocks disposed between the service rails and between the point and the outside wing rails to hold the point in fixed position relative to the wing rails, a pair of combined flange guards and easer joints, each including an upstanding inner part resting on the lower flange of one of the wing rails, and having a configuration to fit the outer face of said wing rail opposite the point and also including a downwardly and outwardly inclined extension in spaced relation to the inner part and having an outwardly extending supporting flange and through bolts passing through the service rails, through the filler blocks and through the combined flange guards and easer joints to tie the built-up construction together.

1,382,870. IGNITION BREAKER CONTACT. JOHN A. STUMPENHORST, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 5, 1919. Serial No. 308,710. 5 Claims. (Cl. 200—30.)



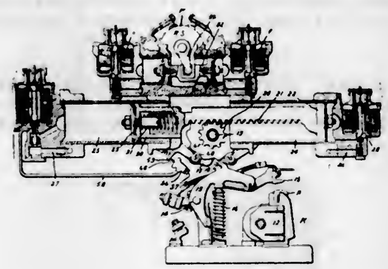
2. In an ignition mechanism, the combination with a pair of coöperating contact members, of a lever arm for supporting one of said contact members, and means for effecting universal angular adjustment of said arm.

1,382,871. LENS FOR HEADLIGHTS. BERNARD J. TAMARIN, Philadelphia, Pa. Filed Jan. 10, 1920. Serial No. 350,494. 3 Claims. (Cl. 240—48.4.)



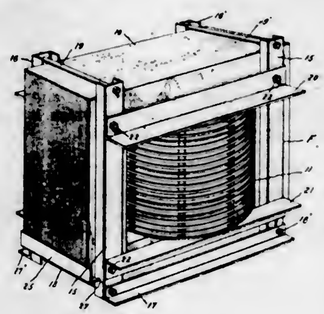
1. A lens or lamp front for headlights provided with a plurality of vizors or shields, the topmost vizor being approximately of crescent formation and the succeeding vizors having an approximately parallel arrangement, and said vizors being spaced apart to admit of portions of the lens projecting rays of light forwardly in horizontal lines, the portions of the lens between the vizors being of protuberant or nodular formation to insure a diffusion of the rays of light and thereby prevent the blinding glare.

1,382,872. MOTOR CONTROL. JOHN F. TRITLE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 3, 1919. Serial No. 328,286. 11 Claims. (Cl. 200—17.)



1. Electric motor controlling means, comprising a controller for the motor circuit, a fluid motor for operating the controller, valve mechanism for controlling the fluid motor, and means operated responsively to the movement of the controller for operating the said valve mechanism to cause the fluid motor to take a quick start and for effecting a reduction in the speed of the same preparatory to stopping.

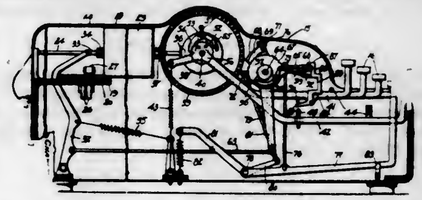
1,382,873. STATIONARY INDUCTION APPARATUS. EDWARD A. WAGNER, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,808. 4 Claims. (Cl. 175—356.)



1. In electrical apparatus, the combination with a core provided with windings, of a clamping frame therefor comprising upright members for gripping the side legs of said core, and a cradle structure suspended between and supported by said upright members in which said core is seated.

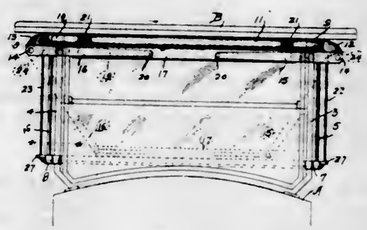
1,382,874. CHECK-WRITER. CHARLES WENDELKEN, Robstown, Tex. Filed July 12, 1920. Serial No. 395,708. 22 Claims. (Cl. 197—6.6.)

1. A typewriting machine comprising a pair of rotatable and shiftable type cylinders, arranged for the successive passage of a sheet past them, and having peripheral type for making impressions on the sheet and advancing the



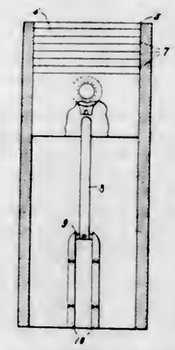
sheet, and means for shifting said cylinders to printing position for different characters and for rotating said cylinders.

1,382,875. WINDOW-CLEANER. SHINKICHI YUASA, Cupertino, Calif. Filed Jan. 15, 1921. Serial No. 437,488. 1 Claim. (Cl. 15—59.)



In a device of the class described, a cleaning device including a supporting frame adapted to be attached to a windshield frame of an automobile, a spring roller journaled in the top of the supporting frame, a wiper bar mounted free to be moved vertically up and down relatively to the supporting frame and in wiping contact with the windshield, a cord connecting the wiper bar with the spring roller with the cord wound upon the roller under control of the spring thereof, a pull cord for moving the wiper bar downwardly over the windshield against the influence of the spring in the roller, and arms pivoted to the top of the supporting frame and having a pin and slot connection with the wiper bar for holding the wiper bar in contact with the windshield when the same is moved over the surface thereof.

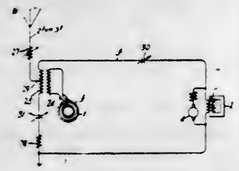
1,382,876. ENGINE-PISTON. FRANK LEMUEL ADRIAN, Mattoon, Ill. Filed Feb. 11, 1921. Serial No. 444,181. 2 Claims. (Cl. 74—108.)



2. In a device of the character described, a cylinder, pairs of bars disposed within the cylinder, a pison operat-

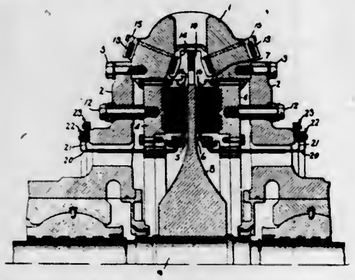
ing in the cylinder, arms having connection with the piston, each of said arms carrying a block, said blocks adapted to move between the bars for guiding the piston, and said bars being secured to the walls of the cylinder.

1,382,877. MEANS FOR FREQUENCY TRANSFORMATIONS. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 6, 1916. Serial No. 124,189. 21 Claims. (Cl. 250—17.)



19. Means for producing electromagnetic waves comprising a source of alternating current of a fundamental frequency, an electric circuit associated therewith having means therein for distorting the wave form of the current derived from said source, an antenna circuit associated with said circuit which is resonant to a frequency harmonic to the fundamental, and means for preventing current of the fundamental frequency from flowing in the antenna circuit.

1,382,878. COOLING DYNAMO-ELECTRIC MACHINES. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,203. 6 Claims. (Cl. 171—252.)



1. The combination in a high frequency alternator of the inductor type, of a pair of circumferentially laminated rings having opposite faces lying in adjacent planes, a winding carried in said faces, a series of circumferential slots in said rings and pipes placed in said slots and adapted to carry a circulating cooling liquid for cooling said rings.

4. The combination in a high frequency alternator of the inductor type of a stator carrying a pair of circumferentially laminated rings having opposite faces lying in adjacent planes, clamping rings inside and outside of each laminated ring, said laminated rings and clamping rings being slotted in their faces, metal terminal blocks secured to said clamping rings and closely adjacent to the ends of said slots, slots in said terminal blocks registering with slots in said rings, windings extending through said slots and having their terminals securely fastened to said terminal blocks.

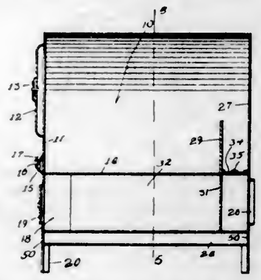
1,382,879. BUMPER. FINDLEY E. ANDREANI, Los Angeles, Calif. Filed Jan. 18, 1921. Serial No. 438,072. 2 Claims. (Cl. 293—55.)

2. A bumper attachment for automobile frames comprising a flat V-shaped spring member having a long end disposed on the upper face of the frame, a bump formed in such end arranged to engage a projection on the frame, a plate extending over such end at one side of said bump, a U-bolt passing around the frame engaging such plate, an



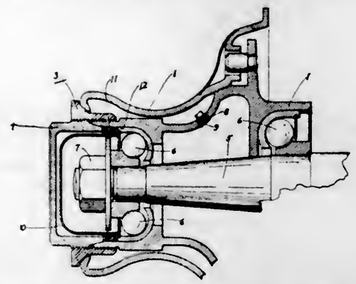
eye having a recess to receive the other end of the spring, means for securing said eye to the spring, a hollow bumper extending through the eye, means for securing said bumper in the eye, and means for closing the ends of the bumper.

1,382,880. FUEL-SAVER AND AIR-CIRCULATOR. HORACE E. ARMSTRONG, Salem, Oreg. Filed Dec. 22, 1919. Serial No. 346,449. 2 Claims. (Cl. 126—60.)



1. A stove comprising a body having a front wall and a rear wall; a platform in the body and defining an upper combustion chamber and a lower compartment, the front wall having an air inlet disposed adjacent to the platform; a baffle extended between the platform and the bottom of the body, the forward end of the baffle being spaced from the front wall of the body, the baffle including a wing extended rearwardly to the rear wall of the body; a transverse partition upstanding from the platform adjacent to the rear wall of the body, the platform having openings located between the partition and the rear wall of the body and disposed on opposite sides of the wing, the rear wall having an outlet communicating, at one side of the wing, with the compartment; and a damper controlling that one of the openings which is located on the same side of the wing as the outlet.

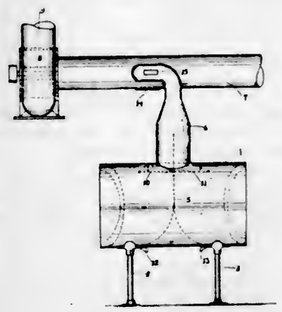
1,382,881. QUICK-DETACHABLE-VEHICLE-WHEEL HUB. CHARLES S. ASH, Hagerstown, Md. Filed Aug. 6, 1919. Serial No. 315,590. 1 Claim. (Cl. 301—9.)



In a quick detachable wheel, in combination, an axle, an inner hub secured thereto, an outer hub telescoping

on said inner hub, threaded means screwing on said inner hub and engaging said outer hub to hold the latter, and a cap having a washer slidably fitting within the outer end of said inner hub to retain a lubricant therein, said threaded means and said outer hub being removable independently of said cap and said cap being removably independently of said threaded means and said outer hub.

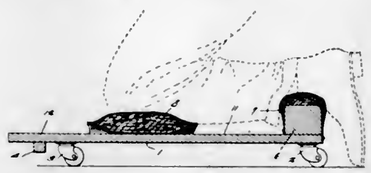
1,382,882. APPARATUS FOR USE IN CONNECTION WITH APPLYING PAINT. CHARLES S. ASH, Hagerstown, Md. Filed Aug. 6, 1919. Serial No. 315,592. 5 Claims. (Cl. 91—60.)



1. In apparatus of the character described, in combination, a tubular member having opposite open ends, an interior wall dividing said member into two separate painting chambers, an exhauster spaced from said member, and flues connecting said exhauster and said painting chambers.

3. In apparatus of the character described, in combination, a tubular member having opposite open ends, an interior wall dividing said member into separate painting chambers, and separate drains from said chambers.

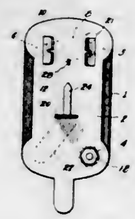
1,382,883. KNEELING-TRUCK. THOMAS G. ASHBRIDGE, Philadelphia, Pa. Filed Jan. 4, 1921. Serial No. 434,999. 3 Claims. (Cl. 155—167.)



1. A kneeling truck embodying a wheel mounted-platform; an ankle rest secured to one end of the platform; a knee pad spaced from the ankle rest and from the other end of the platform; and means for securing the knee pad adjustably to the platform.

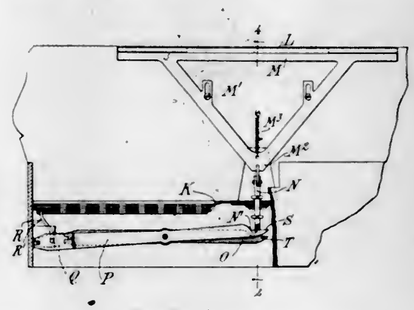
1,382,884. ELECTRIC-CIRCUIT-TESTING DEVICE. SAMUEL G. BARNARD, Seattle, Wash., assignor of one-half to Hugo Dotzer, Seattle, Wash. Filed June 8, 1920. Serial No. 387,386. 5 Claims. (Cl. 175—183.)

5. A circuit testing device of the character described comprising a pair of pivotally joined switch blocks, one of which has contact members thereon applicable to binding posts or the like of an electric circuit and having a circuit wire binding post thereon, and the other of which has a circuit wire binding post thereon and spaced apart conductive members wherein a spark plug may be held in testing position, and said latter block being movable to one position to effect the closing of a circuit through its



circuit wire binding post and in another position to close a circuit through the said conductive members, for the purpose set forth.

1,382,885. ACCORDION. PASQUALE BARTOLI, Brooklyn, N. Y. Filed May 17, 1920. Serial No. 381,828. 7 Claims. (Cl. 84—376.)



2. In a musical instrument, a key board, keys mounted therein to form a keyboard, an actuating strip extending along said keys, said strip being supported by said key bed, but movable relatively thereto, means, operated by said strip, comprising a pair of elements actuated in alternation, and means oppositely actuated by the respective elements of said pair for controlling the operation of parts of said instrument.

4. In a musical instrument, the combination of a plunger and a pair of levers provided with arms having a spring tension exerted toward each other, said arms having bent portions adapted for mutual engagement whereby each lever, when operated by said plunger, causes an arm of the other to be brought to a position to be subsequently engaged and moved by said plunger.

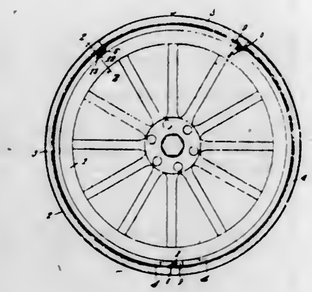
1,382,886. COTTON-PICKING MACHINE. GEORGE T. BECKNELL, Nevada, Tex. Filed June 7, 1920. Serial No. 387,001. 8 Claims. (Cl. 56—13.)



3. In a cotton picking machine, the combination of a wheel supported frame, of a plurality of sets of cotton

picking elements supported at different elevations and spaced longitudinally of the machine so as to operate upon a plurality of different cotton plants at different elevations at the same time and operating upon each plant at one elevation only, each element including a rotating picking member, means for creating a suction mounted on the frame, and a flexible conductor leading from each picking element to the suction means for conveying the picked cotton thereto.

1,382,887. DEMOUNTABLE RIM. ARTHUR B. BEYNON, San Antonio, Tex. Filed Mar. 1, 1917. Serial No. 151,821. 1 Claim. (Cl. 301—31.)



A demountable rim comprising a plurality of segments, fastening means for connecting a pair of segments, said fastening means comprising a recessed block secured to one segment, loops pivotally connected to the coacting segment and adapted to be received in said recessed block, and a removable member extending through said recessed blocks and said loops for connecting the two segments.

1,382,888. DRIVING AND OTHER BELTS. HARRY BRAMMER, Leeds, England. Filed Jan. 31, 1921. Serial No. 441,382. 5 Claims. (Cl. 74—63.)

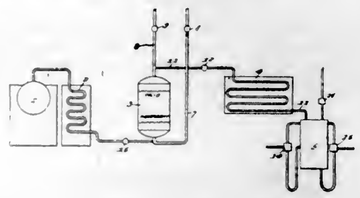


1. A driving belt formed of a plurality of relatively flat links arranged in overlapping relation, each link being chamfered at one end and provided with holes including a relatively enlarged body portion adapted to permit passage of a headed fastener and a reduced portion adapted to receive only the shank of such a fastener, and a plurality of headed fasteners each extending through alined holes in overlapping links and securing said links together.

1,382,889. METHOD OF DISSIPATING HEAT IN PROCESS FOR EXTRACTING VAPORS FROM GASEOUS MIXTURES. GEORGE A. BURRELL, New York, N. Y., and CLYDE L. VORESS and VERNON C. CANTER, Bradford, Pa., assignors to Gasoline Recovery Corporation, a Corporation of Delaware. Filed Jan. 24, 1921. Serial No. 439,676. 7 Claims. (Cl. 252.)

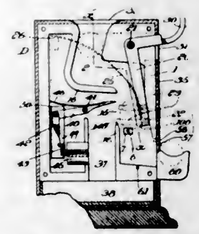
1. A method of dissipating heat in a vapor recovery process consisting in diluting gas mixtures containing larger percentages of recoverable vapors with a gas containing smaller percentages of recoverable vapors.

1,382,890. PROCESS AND APPARATUS FOR RECOVERING AND RECONDENSING GASOLENE, NAPHTHA, AND THE LIKE. GEORGE A. BURRELL, New York, N. Y., and CLYDE L. VORESS and VERNON C. CANTER, Bradford, Pa., assignors to Gasoline Recovery Corporation, a Corporation of Delaware. Filed Jan. 24, 1921. Serial No. 439,679. 11 Claims. (Cl. 252.)



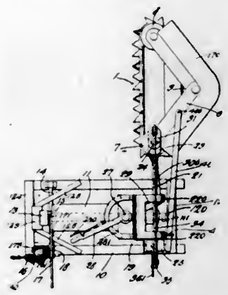
1. It permits the condensation of lighter vapors than could be otherwise condensed at the same temperature without pressure higher than atmospheric.

1,382,891. TELEPHONE SYSTEM. BRYANT D. CAMPBELL, Oakland, Calif. Filed Feb. 6, 1917. Serial No. 146,982. 12 Claims. (Cl. 179—6.3.)



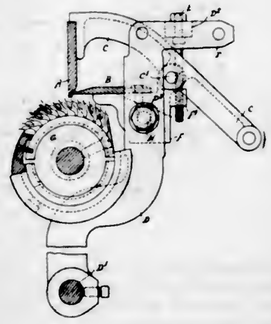
2. In a coin-controlled telephone system, coin-controlled means operatable entirely by the calling party for completing a connection and for collecting the coin when the called party answers, and for returning the coin when the called party fails to answer.

1,382,892. SAWING-MACHINE. DAVID H. CLARK, Waynesville, N. C. Filed May 29, 1917. Serial No. 171,722. 3 Claims. (Cl. 143—32.)



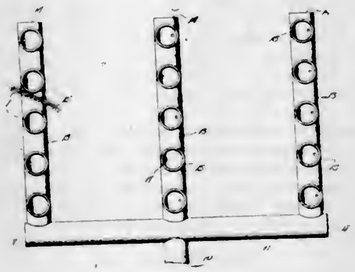
1. A wood sawing machine comprising a main frame; a carrier mounted to tilt transversely on the main frame; an upright shaft; a saw carried by the shaft, means for swinging the saw transversely of the shaft; means for raising and lowering the saw on the shaft; means for connecting the saw operatively with the shaft; and mechanism for supporting the shaft on the carrier, said mechanism comprising means for moving the shaft transversely with respect to the carrier.

1,382,893. COMBING-MACHINE. JAMES WILLIAM CLEGG, Oldham, England. Filed Feb. 12, 1920. Serial No. 358,292. 1 Claim. (Cl. 19—6.)



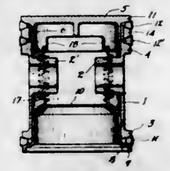
In a machine of the class described, the combination of a comb cylinder and a rocking lever having a nipper knife pivotally mounted thereon above said cylinder, a slide member adjustably carried by said lever and having a cushion plate for coöperating with said nipper knife, said rocking lever having an angularly extending portion at its upper end and a perforated laterally extending lug at one side thereof, said slide member having a rearwardly extending lug provided with a threaded perforation in alinement with the perforation of said laterally extending lug, and a headed adjusting member passing through said perforation in the laterally extending lug and threaded at its lower end to engage the threaded perforation in said rearwardly extending lug thereby to adjust the cushion plate relatively to the cylinder.

1,382,894. GAS-BURNER. ELMER EDGAR CORNWELL and JOSEPH HARRY MCCREADY, Okmulgee, Okla. Filed Oct. 11, 1920. Serial No. 416,054. 3 Claims. (Cl. 158—106.)



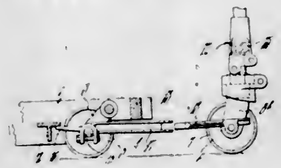
1. A burner of the class described comprising a supply pipe, an imperforate straight header communicating therewith intermediately and having closed ends, a plurality of header pipes extending from said header and having the free ends thereof closed, there being outer pipes and an intermediate pipe disposed in parallel relation with respect thereto, said header pipes being provided with burner orifices in the upper walls thereof located in spaced relation and the burner orifices of the central pipe being disposed in zig-zag relation near the sides thereof, and upwardly extending mixing chambers encompassing said orifices and having the upper ends thereof completely open, said mixing chambers having their lower ends bifurcated to provide spaced side portions secured to the header pipes and producing air inlet openings alined in the direction of the header pipes.

1,382,895. PISTON. HUGO DOTZER and SAMUEL G. BARNARD, Seattle, Wash. Filed Dec. 17, 1919. Serial No. 345,613. 4 Claims. (Cl. 74—108.)



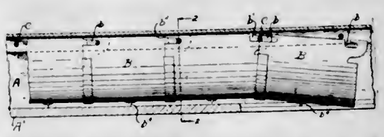
1. A piston comprising a cylindrical body portion whereto a piston rod may be attached, and having an outwardly beveled peripheral shoulder at an end thereof, a head having a cylindrical sleeve extending substantially within and slidably fitting the piston body wall, and having a peripheral shoulder beveled oppositely to and opposing the first named shoulder, an expandible piston ring mounted between and having its opposite faces beveled to fit said shoulders and yieldable means inclosed within the piston body and head for retaining said head within said body and against said piston ring.

1,382,896. COUPLING DEVICE FOR TRUCKS. FRANK L. EIDMANN, Holyoke, Mass., assignor to Edward N. White, J. Lewis Wyckoff, and George F. Jenks, Holyoke, Mass., trustees, doing business as Cowan Truck Company. Filed Oct. 23, 1920. Serial No. 418,875. 3 Claims. (Cl. 213—67.)



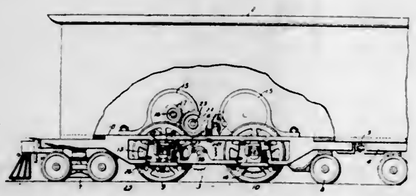
1. The combination with a pair of hand-trucks each comprising a wheel-supported frame having a rear axle and a front axle mounted in a steering-wheel carrier, of a coupling device for said trucks comprising, a pull member detachably connected to the rear axle of one truck and having a forward extension and rear heavier extension whereby the said forward extension will engage beneath a portion of the frame of said truck normally holding said member in a horizontal position, a draw member detachably connected to the front axle of the other truck and having shoulders for engaging opposite sides of said steering-wheel carrier to normally hold the same in substantially horizontal position, said members being detachably and pivotally connected to one another.

1,382,897. LINING FOR GRAIN SPOUTS AND CHUTES. ROBERT ESCHE, Milwaukee, Wis. Filed Aug. 25, 1919. Serial No. 319,774. 5 Claims. (Cl. 193—29.)



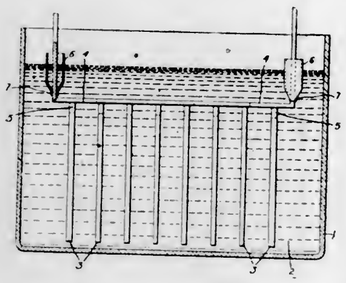
1. A spout for conveying materials, consisting of a series of lining sections, and a support to which the sections are detachably connected, such sections being formed as channels of the desired shape, and provided with open slots in their edges which engage the attaching means on the support.

1,382,898. LOCOMOTIVE. FRANK FIX, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1917. Serial No. 140,739. 9 Claims. (Cl. 105—113.)



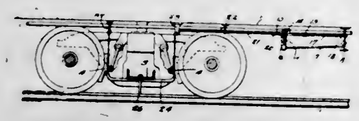
1. In a motor operated vehicle, the combination with a driving axle provided with a gear wheel rigidly mounted adjacent one end thereof, of side frames provided with gear wheels rigidly mounted thereon and in mesh with said first mentioned gear, means for permitting the axle to oscillate in a vertical plane, and means for permitting movement of said axle with respect to said frame about the axis of the gear mounted on said frame as a center.

1,382,899. TERMINAL FOR ELECTROLYTIC CONDENSERS. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,462. 12 Claims. (Cl. 175—317.)



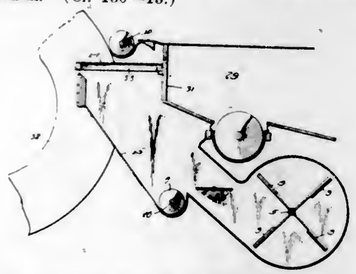
7. A terminal for electrolytic condensers. rectifiers, lightning arresters and the like comprising a conductor and a sleeve of conducting material engaging and surrounding, the conductor.

1,382,900. EMERGENCY-AIR-BRAKE ATTACHMENT. JOSEPH B. FOUNTAIN and JOHN B. PARKER, Lakeland, Fla. Filed Jan. 5, 1921. Serial No. 435,220. 5 Claims. (Cl. 246—169.)



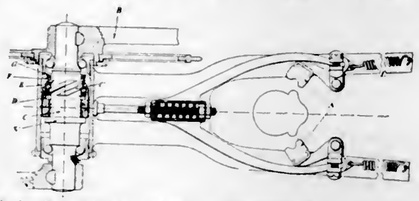
1. In a device of the class described, a car frame; a truck; a train line brake pipe; a valve in the pipe; an actuating member extended beneath a part of the truck and operatively connected intermediate its ends with the valve; means for anchoring one end of the actuating member to the frame; and resilient means for connecting the other end of the actuating member to the frame.

1,382,901. GRAIN-SAVING ATTACHMENT FOR THRESHING-MACHINES. CHARLES L. GEBHARDT, Green, Kans. Filed Sept. 8, 1920. Serial No. 408,994. 1 Claim. (Cl. 130—15.)



The combination with a threshing machine provided with a shoe having a tail-board, of a sieve attached to the rear of such tail-board and extending rearward therefrom and agitated by the movement of such shoe, such sieve being so disposed as to receive the tailings directly from such tail-board, a supplemental fan so disposed as to create an air blast upwardly through such sieve, and means for conveying the grain to a predetermined point.

1,382,902. BACK-PEDALING BRAKE FOR VELOCIPEDES. PIERRE LOUIS ALFRED GIAUQUE, Levallois-Perret, France, assignor to Societe Anonyme des Automobiles et Cycles Peugeot, Paris, France. Filed Dec. 23, 1919. Serial No. 346,938. 1 Claim. (Cl. 192—5.)



A back pedaling brake for velocipedes comprising in combination an axle adapted to be rotated in either forward or reverse direction, a helical projection on said axle, a nut member in engagement with said helical projection and having a conical coupling surface, a sleeve having a complementary coupling surface adapted to frictionally engage with the conical surface on the nut member, means for rotatively supporting the said sleeve so that it may have a limited angular movement, means for preventing any axial displacement of said sleeve, yielding means adapted to bring the nut member into engagement with the sleeve, braking members, and means for operatively connecting the said sleeve to the said braking members.

1,382,903. LAMP. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,766. 8 Claims. (Cl. 240—41.)



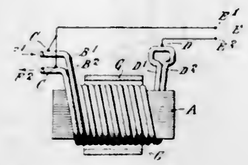
1. In a lamp, the combination of a cup-shaped body having a cylindrical open end, retaining devices extending inwardly from said cylindrical end, a reflector movable into said body and having a radial flange adapted to slide within the cylindrical end of said body, said flange being formed with notches adapted to permit said retainers on the body to pass through, said flange being also formed with two additional notches, and a resiliently mounted outwardly movable tongue extending inwardly from said cylindrical end of the body and adapted to enter said additional notches.

1,382,904. COMBINED DOOR-BELL AND BURGLAR-ALARM. MIKE GORAY, Indiana Harbor, Ind. Filed Jan. 22, 1921. Serial No. 439,211. 2 Claims. (Cl. 116—92.)



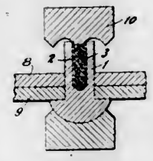
1. A combined door bell and burglar alarm comprising a bell adapted to be secured to a door, motor mechanism for operating the bell, a sliding tensioned plate associated with said motor mechanism for arresting movement of the mechanism, a tensioned push button associated with said plate adapted to move said plate to free the motor mechanism, a bifurcated lug carried by the lower end of the plate and a link having its upper end bent in opposite directions and engaging the bifurcated lug for connecting the plate to the door knob spindle for moving said plate upon rotation of the knob spindle.

1,382,905. COOLING MEANS FOR ELECTRIC METAL-WORKING TRANSFORMERS. JAMES H. GRAVELL, Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 4, 1919. Serial No. 328,544. 3 Claims. (Cl. 175—356.)



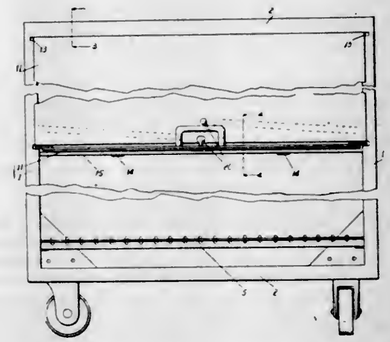
1. An electric coil having two windings of hollow tubing connected to permit the cooling medium to flow through them in series and having electrical connections to cause electric current to flow through them in parallel.

1,382,906. SELF-HEATING RIVET AND METHOD OF RIVETING WITH SAME. JAMES H. GRAVELL, Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass., a Corporation of Massachusetts. Filed May 11, 1920. Serial No. 380,581. 8 Claims. (Cl. 85—37.)



1. A self-heating rivet consisting or a rivet blank having a pocket or cavity and an ignitible heating composition in said cavity.

1,382,907. INCLOSED RACK. CHARLES THATCHER HATCH, Jr., Albion, Mich., assignor to The Union Steel Products Company, Ltd., Albion, Mich., a Corporation. Filed Jan. 3, 1920. Serial No. 349,237. 3 Claims. (Cl. 107—7.)

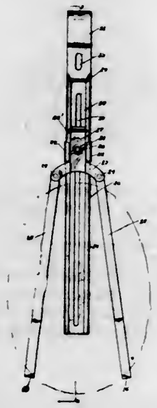


1. In a structure of the class described, the combination of a housing frame comprising angle iron corner uprights disposed with their angles facing inwardly, walls secured to said frame, the front being open between the front uprights providing a door opening, a door, slides therefor mounted within the corner uprights, the front corner uprights being notched in alinement with said slides to permit the door being swung to a horizontal position and pushed inwardly upon the slides, a door supporting rod disposed below the slides, hooks on said door coacting with said rod to limit the outward movement of the door and pivotally support it when extended, a pair of oppositely disposed locking bolts slidably mounted at the lower end of the door to be projected behind the front corner uprights, and a pivoted hand piece provided with a cross arm to the opposed ends of which said locking bolts are connected so that they are simultaneously retracted and extended by the turning of said hand piece.

1,382,908. PICTURE-HANGER. MICHAL HELEA, Carthage, N. Y. Filed Oct. 22, 1919. Serial No. 332,414. 1 Claim. (Cl. 40—145.2.)

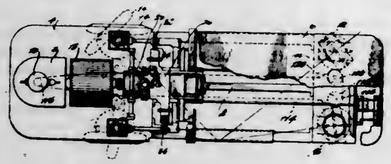
In a picture hanger of the character described, the combination of a slotted and flanged stationary frame, an inverted Y-shaped member, the vertical portion of said Y-shaped element being slidable within the flanges of the frame member to adjust the height of said Y-shaped member in relation to the stationary member, a sleeve inclosing the vertical part of the Y-shaped member and

the frame member and adapted to slide on the latter, a threaded bolt passing through the sleeve, the slot in the frame member and the sleeve, a winged nut engaging the bolt to fasten said Y-shaped member in the adjusted position, depending members pivotally attached to the



outer ends of the horizontal part of said Y-shaped member, provided on their lower ends with rests for the support of a picture, the upper end of the stationary frame member forming a hook to engage the molding and with an opening to be engaged by a nail.

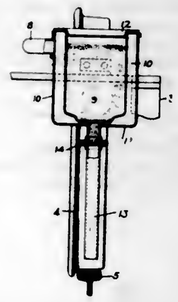
1,382,909. VEHICLE STEERING MECHANISM. DANIEL E. HENNESSY, Holyoke, Mass., and JOHN MCGEORGE, Cleveland, Ohio, assignors to Herbert W. Cowan, J. Lewis Wyckoff, and Edward N. White, Holyoke, Mass., trustees, doing business as Cowan Truck Company. Original application filed Mar. 23, 1917, Serial No. 157,017. Divided and this application filed Oct. 8, 1917, Serial No. 195,240. Renewed Jan. 8, 1921. Serial No. 435,991. 4 Claims. (Cl. 280—91.)



1. In a truck of the class described, the combination with steering wheels, of means for driving said wheels, and means for turning said wheels into tangential relation to concentric circles, comprising eccentric gear segments connected to said wheels and a gear coöperating with each gear segment throughout the steering movement of the wheel, said gear being arranged to turn about a fixed axis.

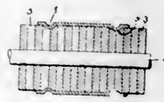
1,382,910. SANDING DEVICE. EDWIN M. HEAR, Edgewood Park, Pa., assignor to Westingbouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 5, 1916. Serial No. 89,144. 1 Claim. (Cl. 291—19.)

In a railway vehicle, the combination with an electric motor adapted to receive fluid for ventilating the same, of a track-sanding device external to said motor, and means comprising a casing surrounding said track-sanding



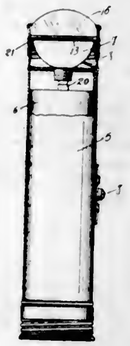
device whereby the heated fluid discharged from said motor is utilized to dry the sand in said sanding device.

1,382,911. VEHICLE-FENDER. ARTHUR J. HERSEY, Minneapolis, Minn. Filed Mar. 5, 1921. Serial No. 449,770. 4 Claims. (Cl. 293—55.)



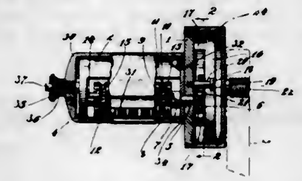
1. A fender of the character described comprising a rigid core, a plurality of washer-like rubber disks mounted upon the core and forming a covering therefor, and means for holding said disks tightly together upon the core.

1,382,912. INSULATOR. HARRY H. HIPWELL, Pittsburgh, Pa. Filed July 22, 1919. Serial No. 312,501. 2 Claims. (Cl. 240—8.5.)



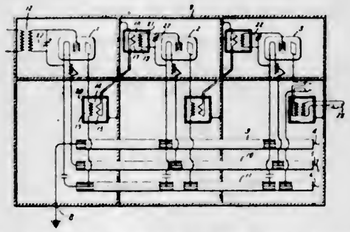
2. A pocket flash-light comprising a concaved bowl-like shell; a similarly shaped reflector fitting within the shell and conforming closely to the shape of the shell; and a sheet of insulating material between the reflector and the shell and conforming to the concavity of the shell, the sheet and the reflector having openings whereby a lamp may be assembled with the shell; the opening of the sheet being stelliform and defining a plurality of pointed tongues which facilitate the conforming of the sheet to the reflector and the shell, about the openings in the reflector and the shell.

1,382,913. REGISTER. HOWARD D. HODGE, New York, N. Y., and JOHN G. DUFF, Waterbury, Conn. Filed Apr. 23, 1919. Serial No. 292,076. 6 Claims. (Cl. 235—91.)



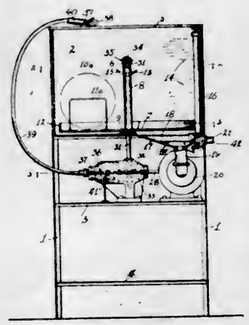
4. In combination with a movable machine part, a casing carried thereby, a vibratory inertia element inclosed therein and having movement relative thereto, an accumulator, means whereby said accumulator is actuated by movement of said inertia element relative to the casing, and means operable exteriorly of the casing for inhibiting movement of the inertia element relative thereto.

1,382,914. AMPLIFYING SYSTEM. CHARLES A. HOXIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 10, 1920. Serial No. 380,038. 5 Claims. (Cl. 179—171.)



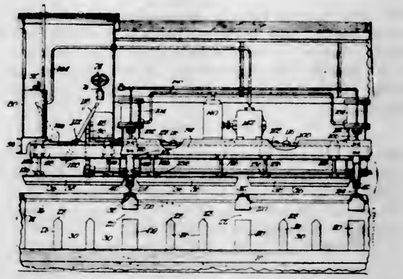
4. The method of operating an amplifying system comprising a plurality of electron discharge amplifiers connected in cascade, each of said amplifiers having input and output circuits which consists in applying the current to be amplified to the input circuit of one of said amplifiers, transforming the resultant energy variations produced in the output circuit of said amplifier to the form of low potential high current energy, retransforming this low potential high current energy to the form of high potential low current energy and applying the same to the input circuit of the second amplifier.

1,382,915. DISH-WASHING MACHINE. THEODORE HUGGINS, Oakland, Calif. Filed Sept. 23, 1920. Serial No. 412,170. 2 Claims. (Cl. 141—9.)



1. A dish-washing machine comprising a tank adapted to contain a supply of cleansing fluid, said tank having a fixed central tube rising from its bottom; a dish-holder having a central tube rotatably mounted upon and extending above the fixed tube of the tank; a nozzle within the tank for directing a jet of cleansing fluid upon the dishes in the holder; a pump for circulating the cleansing fluid through the tank and nozzle; a motor; a vertically disposed shaft extending up through the tank bottom and journaled in the fixed tube of said tank, said shaft extending above said tube and having a slotted top; a cross pin secured in the central tube of the dish-holder and removably seated in the slotted top of said shaft; and power transmitting connections from the motor to drive the pump and the vertically disposed shaft.

1,382,916. COKE-OVEN AND CHARGING MECHANISM. ERNEST JOHNSON and ARTHUR NORDQUIST, Gary, Ind. Filed July 18, 1919. Serial No. 311,824. 6 Claims. (Cl. 214—18.)



1. In mechanism for charging the normally door covered chambers of coke ovens, a traveling car, longitudinally reciprocatable and rotatable members on the car, means for reciprocating and rotating said members, said members being engageable with said door to lift the same by reciprocation and detachably connectible with said door by rotation.

1,382,917. COKE-OVEN. ERNEST JOHNSON and ARTHUR NORDQUIST, Gary, Ind. Original application filed July 18, 1919, Serial No. 311,824. Divided and this application filed May 17, 1920. Serial No. 382,112. 3 Claims. (Cl. 202—9.)



1. In combination with the body of a coal receptacle of a coke oven battery, a passage leading to the receptacle at the top thereof of substantially the dimensions of the body of the receptacle, transverse members across said opening adapted to tie and brace the walls of the coal receptacle and a cover insertible in and removable from said passage.

1,382,918. PNEUMATIC CUSHIONED TIRE. AUGUSTUS HALLAWELL KERR, Fort Worth, Tex., assignor to said Augustus H. Kerr, J. A. Smith, J. M. Atkinson, J. A. Dacus, and W. L. Coley, trustees for an Association. Filed Mar. 5, 1920. Serial No. 363,501. 3 Claims. (Cl. 152—33.)

2. A pneumatic cushioned tire comprising a two-part casing, the sections thereof being formed with inner and outer terminal beads and the sections disposed to have their adjacent meeting edges abut one against the other, a clencher-rim to grip the inner beads of the sections, and a clencher-plate extending across the meeting edges

of the tread portion of the two casing-sections, and formed with edge flange guards extended to lie beyond the maximum projection of the sides of the casing, substantially in line with the outer beads of the casing, the base of the guards next to the casing-beads having a relatively greater thickness than the web portion of the

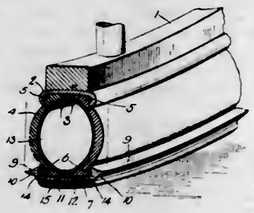
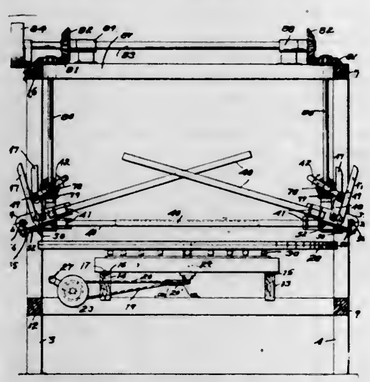


plate and having therein faces concaved to receive the casing beads, and a liner having inwardly extending flanges shaped to conform to the inner concave faces of the guards and disposed to lie between the web and guards of the plate and the outer beads of the casing-sections.

1,382,919. MATTRESS BEATING AND SHAPING MACHINE. WALTER ROBERT KROPF, San Francisco, Calif., assignor of one-half to Adolph Gustave Siebert, San Francisco, Calif. Filed Feb. 15, 1921. Serial No. 445,242. 9 Claims. (Cl. 226—43.)



2. A machine of the class described comprising a frame, a slidable platform in said frame adapted to receive a mattress, means for sliding said frame and power driven means for beating said mattress mounted above said platform.

1,382,920. MANUFACTURE OF SELENIUM OXYCHLORID. VICTOR LENHER, Madison, Wis. Filed May 15, 1920. Serial No. 381,628. 15 Claims. (Cl. 23—10.)

15. The process of producing selenium oxychlorid which comprises chemically combining selenium dioxid, selenium and chlorid gas by a chlorinating process.

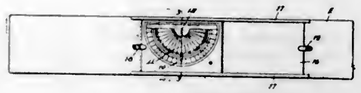
1,382,921. MANUFACTURE OF SELENIUM OXYCHLORID. VICTOR LENHER, Madison, Wis. Filed May 15, 1920. Serial No. 381,629. 10 Claims. (Cl. 23—10.)

6. The process of producing selenium oxychlorid which comprises a reaction between water and a compound of selenium in the presence of a solvent for selenium oxychlorid.

1,382,922. MANUFACTURE OF SELENIUM OXYCHLORID. VICTOR LENHER, Madison, Wis. Filed May 15, 1920. Serial No. 381,630. 6 Claims. (Cl. 23—10.)

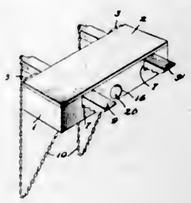
1. The process of producing selenium oxychlorid which comprises causing a reaction between selenium dioxid and hydrochloric acid and separating the water from the resulting compound by means of a dehydrating agent.

1,382,923. PROTRACTOR-LEVEL. HENRY F. LOESCHNER, Fredericktown, Mo. Filed Apr. 12, 1919. Serial No. 289,611. 2 Claims. (Cl. 33—215.)



1. A compound protractor level comprising a main beam having a recess formed therein in one side thereof, a secondary beam seated in the recess of said main beam and adapted to be removed therefrom for use independently of the latter, means for securing said secondary beam in position within the recess of said main beam, and a closure slidably mounted on said main beam and adapted to be moved into registry with the recess of the latter to close the same and to protect the secondary beam from injury when seated in the recess.

1,382,924. LOCK. JAMES M. MCKEE, New Bloomfield, Pa. Filed Oct. 6, 1920. Serial No. 414,978. 6 Claims. (Cl. 70—17.)



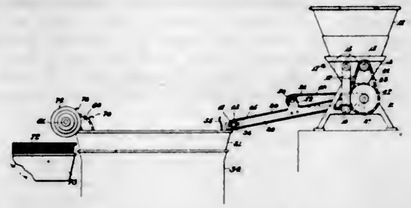
5. A lock comprising a bolt and a U shaped locking pin, one arm of the said pin engaging with the bolt to lock it against movement, the other arm projecting into the keyhole, a key adapted to coöperate with the last named arm to release the first named arm from engagement with the bolt as the key is inserted in the lock, and ratchet teeth on the bolt coöperating with pinion teeth on the key for turning the said bolt.

1,382,925. METHOD OF MAKING ORNAMENTAL PLAQUES. MICHAEL JOSEPH MCLAUGHLIN, St. Louis, Mo. Filed July 25, 1918. Serial No. 246,760. 1 Claim. (Cl. 41—32.)



A process of making an ornamental plaque comprising placing the face of the ornamentation upon a fixed polished surface and building the sides of the mold upon said surface around the ornamentation and casting the plaque in said mold in the usual manner, and then removing the cast plaque by first removing the sides of the mold and then the plaque from said surface.

1,382,926. APPARATUS FOR AND PROCESS OF MAKING CRULLERS. LEON MITCHELL, Dorchester, Mass. Filed Feb. 2, 1920. Serial No. 355,791. 6 Claims. (Cl. 107—4.)

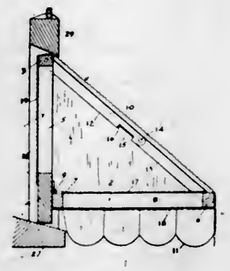


1. The method of making crullers which consists of ejecting onto a traveling apron two strings of dough from a hopper and simultaneously twisting the same, severing said twisted strings of dough while on said apron into sections of substantially equal length, delivering said twisted strings of dough separated from each other from said apron onto a conveyer, submerging the strings of twisted dough in a pan of hot fat and slowly moving them while thus submerged through said fat and frying them.

3. An apparatus for making crullers consisting of a dough-receiving hopper having means in the bottom thereof for twisting two strings of dough as they are ejected from said hopper; a conveyer for the twisted strings of dough; means coacting with said conveyer for severing said twisted strings of dough into sections of substantially equal length; a pan of hot fat into which said sections are deposited by said conveyer; a heating device on which said pan is positioned; and means within said pan for submerging said sections and conveying them while submerged in the fat from one end of said pan to the other and lifting said sections over the edge of said pan and depositing them into a receiver.

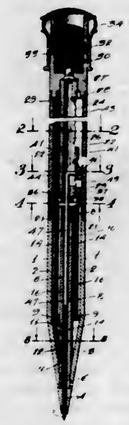
4. In an apparatus of the class described, a dough-receiving hopper having a discharge opening in the bottom thereof; parallel feed rollers beneath said discharge opening; a plate beneath said feed rollers having formed thereon scrapers coacting with the periphery of said rollers and having an opening therethrough; a revoluble pocket beneath said plate and alined with said opening and having two parallel discharge openings in the bottom thereof; and means for rotating said pocket.

1,382,927. WINDOW-VENTILATOR. MARION MOOERS, San Francisco, Calif. Filed Feb. 18, 1920. Serial No. 359,531. 4 Claims. (Cl. 98—31.)



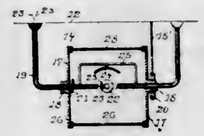
4. A ventilator comprising a rectangular upright frame, a rectangular frame secured to and extending outwardly from the lower end of said upright frame, screens extending across and secured to said frames, and a canopy extending over the top of said frames and closing the front, top, and ends thereof, a hinge connecting said frames with one another.

1,382,928. LEAD-PENCIL. WADE W. MOORE, Pittsburg, Calif., assignor to Jesse E. Roach, Oakland, Calif. Filed Feb. 17, 1920. Serial No. 359,469. 3 Claims. (Cl. 120—18.)



3. In a lead pencil, the combination with a tip portion having a coaxial bore and an annular magazine surrounding said bore, of a tubular body portion having one end thereof arranged for engagement with the tip portion to close the magazine therein and likewise having a bearing adjacent said end; a threaded rod having a longitudinally disposed radial slot therein having its inner end rotatably mounted within said bearing and having a threaded end extending beyond said bearing, the other end of said rod having a bearing on the opposite end of the tubular body portion to retain said rod coaxial longitudinally with said body and to provide exteriorly located means for the operation of said rod; a threaded follower mounted upon the rod and slidably engaging the tubular body portion and having an annular internal groove therein whereby said follower may be moved longitudinally when the rod is rotated; and a plunger slidably mounted within the radial longitudinal slot of the threaded rod and the coaxial bore of the tip portion and having a lateral extension on one end thereof to slidably engage the annular slot within the follower whereby said plunger may be actuated to project a lead through the tip when the threaded rod is rotated; a nut screwed upon the threaded end of the rod extending beyond the bearing within the body portion to prevent longitudinal movement of and to rotatably secure said body portion; and a clamp arranged for frictional engagement with said lead to normally prevent movement thereof within said bore.

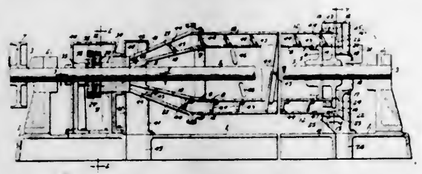
1,382,929. AUTOMOBILE SIGNALING DEVICE. ANDREA GABRIELE MICHELE PANSA, Bristol, R. I. Filed Feb. 11, 1921. Serial No. 444,151. 1 Claim. (Cl. 116—28.)



In an automobile signaling device the combination of the following instrumentalities, a square box shaped signaling indicator having glass sides on which are means for signaling, a tubular U shaped frame on the body of the automobile, at the rear, means for rotatably securing the indicator to the U shaped frame, spring means connecting the indicator with the U shaped frame to rotate the indicator

in a reverse direction, a reflector on the U shaped frame, a lamp secured to the U shaped frame in front of the reflector, and means for operating the signaling indicator, all for the purpose as described.

1,382,930. CENTRIFUGAL APPARATUS. JOHN W. PHILLIPS, Meriden, Conn., assignor to Clarence P. Landreth, Philadelphia, Pa. Filed June 17, 1920. Serial No. 389,569. 12 Claims. (Cl. 233—7.)



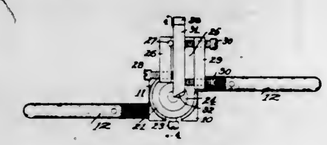
1. Centrifugal apparatus comprising rotatable co-axial drums, means for feeding material between said drums, means for positively advancing material between said drums, and means for separately removing separated materials from between said drums comprising an outlet through the outer drum for one of the separated materials and a passage from between said drums to the interior of the inner drum for another of said materials, and a discharge from the interior of said inner drum for said other of said materials.

1,382,931. CLOTHESPIN AND MANUFACTURE THEREOF. ALFRED L. PREVOST, Mystic, Conn. Filed Mar. 18, 1920. Serial No. 366,933. 3 Claims. (Cl. 24—138.)



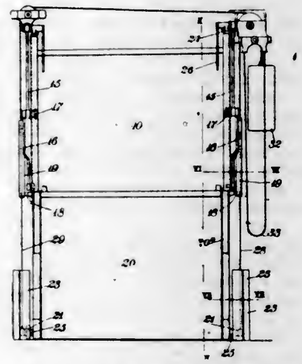
1. The herein described method of making clothespins which consists in forming a slab to the outline in cross section of two clothespins with heads abutting, and severing the same longitudinally midway of its width and also at intervals transversely to produce a series of clothespins with flat sides.

1,382,932. HAND-TOOL. FREDERICK M. RAMSDELL, Worcester, Mass. Filed Apr. 15, 1920. Serial No. 374,082. 8 Claims. (Cl. 82—4.)



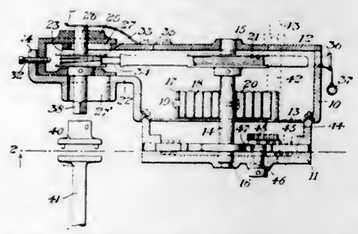
1. As an article of manufacture, a hand tool comprising a pair of complementary clamping members, a pair of handles each having a screw thread, said members each having two parallel openings located on opposite sides of the center, one of each pair being screw-threaded, for receiving the screw threaded portions of said handles so that said members are clamped together thereby, said handles extending in opposite directions from opposite sides of said members, said members having concave jaws at one end adapted to receive and clamp a cylindrical holding surface of a metal working tool, a similar pair of jaws at the other end, and a circular disk adapted to be held in the last named jaws and having a central passage for guiding and centering the work.

1,382,933. DOOR AND THE LIKE. ALBERT RUSH, Columbus, Ohio, assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 2, 1919. Serial No. 287,022. 5 Claims. (Cl. 268—1.)



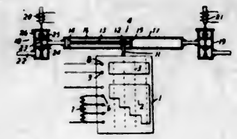
1. A door or shutter including, in combination, an upper section and a lower section, means for supporting the upper section in vertical position, means whereby the lower section may be raised into coincidence with the upper section, and link means engaged and actuated by the lower section to initially and subsequently deflect the coinciding sections and support them in deflected position.

1,382,934. VALVE-GRINDER. GUSTAV SCHADEE, New York, N. Y. Filed Feb. 19, 1920. Serial No. 359,762. 1 Claim. (Cl. 51—29.)



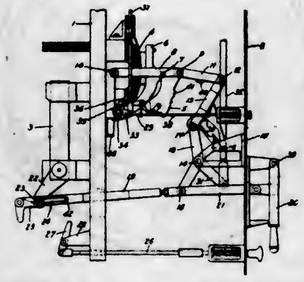
In a valve grinding apparatus, a casing, a tool shaft associated therewith, a pulley mounted on the tool shaft within the casing, a drive shaft journaled in bearings in the said casing, a pulley mounted on the drive shaft within the casing, a chain passed around the pulley on the drive shaft and also around the pulley on the tool shaft and extending at one end to a position exteriorly of the casing, and a spring associated with the said drive shaft whereby when the said chain is pulled exteriorly of the casing the tool shaft is revolved in one direction and a tension applied to the spring and upon releasing the chain the spring is employed to drive the tool shaft in the opposite direction.

1,382,935. SYSTEM OF CONTROL. OTTO S. SCHAIRER, Oakmont, and WILLIAM R. COLEY, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 1, 1917. Serial No. 151,688. 12 Claims. (Cl. 200—17.)



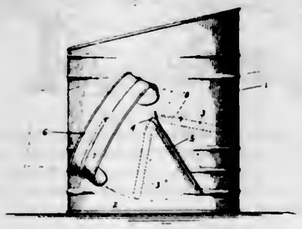
1. The combination with a fluid-actuated mechanism comprising a movable member, a container therefor, and fluid-governing means associated with each end of said container, of means for positively actuating said governing means individually to produce movement of said member in the one or the other direction and collectively to arrest such movement.

1,382,936. CIRCUIT-CONTROL MECHANISM. WALTER W. SCHILLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1920. Serial No. 420,785. 7 Claims. (Cl. 200—50.)



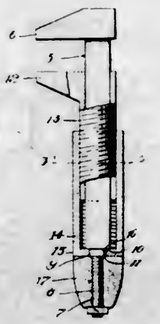
1. In a circuit control mechanism, a switch, a circuit breaker, an operating lever, a linkage interconnecting said switch, circuit breaker and operating lever arranged so that one movement of the operating lever opens the switch and subsequently closes the circuit breaker and the reverse movement closes the switch, and latching means arranged to lock said linkage upon the completion of said reverse movement of the operating lever and adapted to be released by the opening of the circuit breaker.

1,382,937. FLOUR-SIFTER. DANIEL SCHNEIDER, Lodi, Calif. Filed Jan. 17, 1921. Serial No. 437,678. 5 Claims. (Cl. 83—60.)



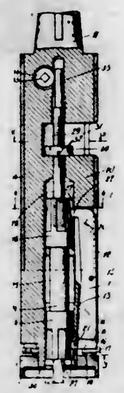
1. In a flour sifter, an agitator, a transverse shaft on which the agitator is mounted, a fixed handle on the receptacle to one side of the shaft, and a handle attached to the shaft outside the receptacle and normally positioned at a downward vertical angle therewith.

1,382,938. WRENCH. WILLIAM O. SINGER and BERNARD J. SINGER, Cresson, Pa. Filed Aug. 28, 1920. Serial No. 406,625. 2 Claims. (Cl. 81—174.)



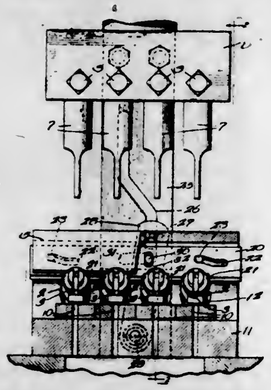
1. A wrench of the character described comprising a shank, said shank having its end reduced and threaded, a shoulder formed at the base of the reduced portion, a second shoulder formed between the reduced portion and the first mentioned shoulder, a slidable jaw including a threaded extension slidably mounted on the shank, an adjusting sleeve having a partially closed end adapted to receive the extension of the jaw, said partially closed end being also adapted to engage the first mentioned shoulder, and a nut threaded on said extension into engagement with the second mentioned shoulder, said second mentioned shoulder preventing longitudinal movement and permitting unrestricted rotary movement of the sleeve on the shank and extension of the slidable jaw.

1,382,939. APPARATUS FOR RIFLING GUN-BARRELS. WILLIAM PORTER SPADE, Watervliet, N. Y., assignor to Watervliet Tool Company, Inc., Albany, N. Y., a Corporation of New York. Filed Sept. 9, 1918. Serial No. 253,148. 9 Claims. (Cl. 90—28.1.)



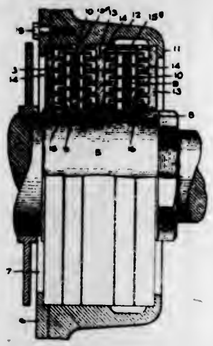
1. In an apparatus for rifling gun barrels, the combination of a body member, a cutter bar pivoted intermediate its ends, carried by the body member, a member for controlling the cutter bar movable longitudinally of the body member and engageable with both ends of the cutter bar, means for moving the member that controls the cutter bar, and a cutter carried on one end of the cutter bar.

1,382,940. PUNCHING-MACHINE. ARTHUR SPEAR, Chicago, Ill., assignor, by mesne assignments, to Archer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 15, 1918. Serial No. 217,405. 10 Claims. (Cl. 10—72.)



1. A nut castellating machine including a punch; a swinging nut holder inclined with respect to the punch to enable the punch to enter the bore of a nut that is upon the holder in the initiation of the engagement of the punch with the nut; a die positioned at one limit of travel of the nut holder to be engaged by the nut upon the holder preparatory to a punching operation; a stop that defines the other limit of travel of the nut holder; and a spring for normally maintaining the nut holder at said stop.

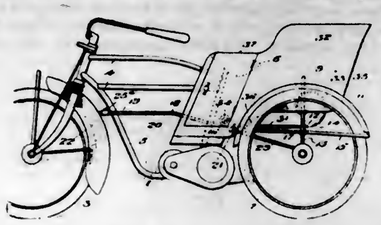
1,382,941. SHAFT-PACKING. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 7, 1919. Serial No. 336,405. 4 Claims. (Cl. 286—7.)



1. The method of making a packing element which comprises taking a member having spaced projecting concentric rings thereon, fastening a sheet of thin material to the edges of said rings, and machining annular grooves in said sheet at points between said rings.

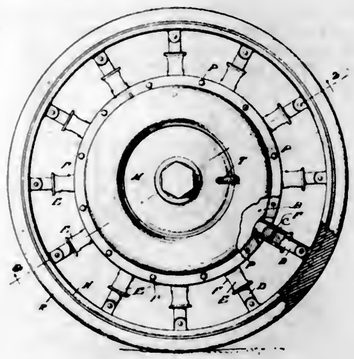
1,382,942. WHEELED MOTORCYCLE ATTACHMENT. LUCY R. VAN HOOSE, Rome, Ga. Filed May 26, 1916, Serial No. 100,017. Renewed Oct. 9, 1920. Serial No. 415,954. 7 Claims. (Cl. 208—45.)

1. A wheeled carrier attachment for motorcycles, comprising a generally horizontal frame having trusses arranged in general vertical disposition, an arch joining said trusses, supporting wheels for the said trussed portions,



adapted to be disposed on opposite sides of the motorcycle, and means for connecting the frame to the motorcycle.

1,382,943. WHEEL FOR MOTOR-VEHICLES AND THE LIKE. RAMÓN OBREGÓN VARGAS, Torrelavega, Spain. Filed Sept. 12, 1919. Serial No. 323,334. 3 Claims. (Cl. 152—46.)



3. A resilient wheel comprising a hub, provided in its periphery with a plurality of circumferentially elongated outwardly flared openings, a rim, telescopic spokes pivoted to the rim and extending through the flared openings in the hub and having flanges on their inner ends to hold same in said hub, and cushion means carried by the hub against which the flanged ends of the telescopic spokes bear.

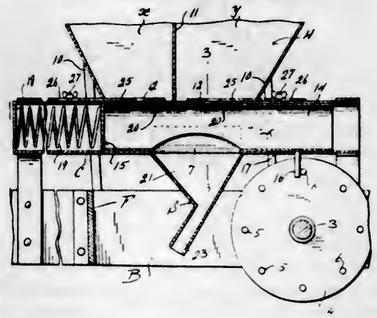
1,382,944. SACK-CLEANING MACHINE. JAMES A. WAGNER, San Francisco, Calif. Filed Jan. 2, 1920. Serial No. 348,821. 21 Claims. (Cl. 15—8.)



1. A sack cleaning machine comprising means for receiving a sack, means for blowing air through the fabric of the sack for cleaning the same, automatically operating turning means, and means for scouring the inner surfaces of the sack.

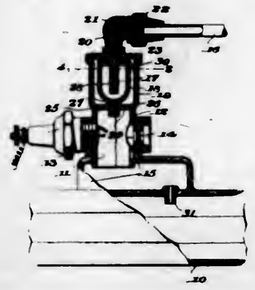
1,382,945. PLANTER. LEWIS F. WHITE, Pond, W. Va. Filed May 15, 1920. Serial No. 381,670. 1 Claim. (Cl. 221—142.)

A planter including a cylinder having an opening in its lower wall, the upper portions of the opening being defined by outstanding flanges, a hopper imposed upon the cylinder, the top wall of the cylinder constituting the bottom of the hopper, said hopper being provided with outstanding flanges overlying the flanges of the cylinder, means for securing said overlying flanges together, the bottom of the hopper being provided with an opening affording communication between the interior of the hopper and the interior of the cylinder, a tubular shuttle movable within the cylinder, means intermittently moving the tubular shuttle in one direction, automatic means



for moving the shuttle in the opposite direction, said shuttle being provided with an opening in its wall to register with the opening in the bottom of the hopper when the hopper is moved in one direction by the first named means, said opening of the shuttle being out of register with the opening in the bottom of the hopper when at the limit of its movement by the automatic means, said shuttle being provided with a second opening registering with the discharge opening in the lower wall of the cylinder.

1,382,946. HYDROCARBON-MOTOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 16, 1919. Serial No. 331,042. 5 Claims. (Cl. 158—28.)

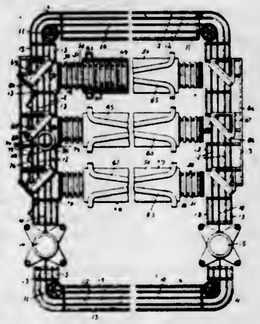


2. A combustion heater device comprising a combustion chamber and means for igniting the charge therein, a mixture inlet including a downwardly extending nozzle, a chamber surrounding said nozzle and having a passage in line with said nozzle and communicating with the interior of the combustion chamber, said surrounding chamber also having outlet openings in its upper portion, and another chamber surrounding the first chamber and with which the openings at the upper end of the first surrounding chamber communicate, said second surrounding chamber having a passage leading to the combustion chamber in proximity to the lower outlet opening from the first chamber.

1,382,947. MATERIAL RESEMBLING LEATHER. DAVID BEATTY, Berkeley, Calif., assignor to himself as trustee. Filed Oct. 8, 1917. Serial No. 195,441. 14 Claims. (Cl. 106—40.)

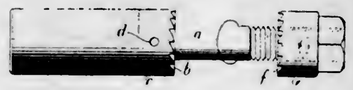
1. A leather substitute comprising coagulated, pliable and moisture-resistant viscose containing fiber therein.

1,382,948. VULCANIZING-OVEN. CHARLES J. BERTHEL, Akron, Ohio. Filed Aug. 3, 1920. Serial No. 400,931. 12 Claims. (Cl. 18—4.)



1. An apparatus of the class described comprising an endless carrier including spaced side portions moving in opposite directions, a heating chamber between the sides of the carrier, means for conducting the articles to be treated through said chamber, means for transferring said article from the carrier at one side to the conducting means of the chamber, and means for transferring the article from the conductor means of the chamber to the carrier at the opposite side thereof.

1,382,949. MEANS FOR SECURING ARTICLES ON MANDRELS, SPINDLES, AND THE LIKE. BENABES JESSE BLOOMFIELD, Brighton, England. Filed May 19, 1919. Serial No. 298,279. 5 Claims. (Cl. 82—43.)

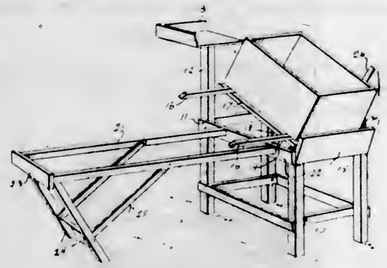


1. In combination with a work-supporting mandrel adapted to be revolved in use, of means for securing a work piece in fixed relation on the mandrel, said means including a member adjustably mounted with relation to the mandrel and provided with means to be engaged by the work piece whereby said member is automatically operable through movement of the work piece in one direction to increase its work piece holding effect through such adjustability.

1,382,950. STAND FOR PACKING FRUIT. CHARLES A. BRAND, Roseburg, Oreg. Filed Jan. 28, 1920, Serial No. 354,715. Renewed May 2, 1921. Serial No. 466,214. 11 Claims. (Cl. 100—57.)

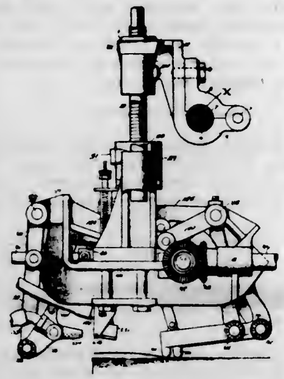
6. A packing stand comprising a supporting frame, a box supporting rack and a discharge rack, the latter having a pair of rails extending parallel to the front of the supporting frame, the box supporting rack being mounted above the supporting frame and having rails extending parallel to the rails of the discharge rack, the supporting frame having a member extending diagonally with relation to the front of the frame and with relation to the tracks of the discharge rack, the box supporting rack having a member extending diagonally to the tracks of said box supporting rack and resting upon the first named

diagonal member, one of said diagonal members having its face confronting the other diagonal member disposed at an inclination downward toward the front of the stand



whereby the box supporting rack will be disposed at an inclination to the horizontal in all positions, and a latch detachably holding the box supporting rack at an inclination downward and toward the front of the frame.

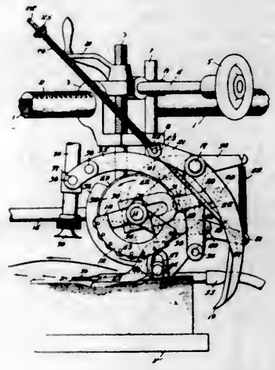
1,382,951. PAPER-FEEDING MACHINE. THOMAS E. BAKEN, Philadelphia, Pa., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed Oct. 6, 1919. Serial No. 328,794. 9 Claims. (Cl. 271—20.)



2. In a machine of the character described, a holding foot movable into and out of engagement with a pile of sheets, a sheet engaging instrumentality movable into engagement with said pile and over said pile toward said holding foot, a sheet gripping instrumentality movable into engagement with a displaced portion of said top sheet, means for raising said foot and said instrumentalities for separating the top sheet from the pile, and a second pile holding foot movable into engagement with the pile beneath said top sheet, the last mentioned pile holding foot being provided with air blast channels for introducing a blanket of air beneath said top sheet.

1,382,952. SHEET-FEEDING MACHINE. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed Apr. 9, 1919. Serial No. 288,753. 20 Claims. (Cl. 271—22.)

2. In a sheet feeding machine, a sheet gripping instrumentality, means for supporting a pile of sheets and holding one portion of said pile displaced relatively to other portions of said pile, and means operating upon the displaced portion of the top sheet of said pile in a direction



away from said sheet gripping instrumentality and moving said top sheet into position to be engaged by said sheet gripping instrumentality.

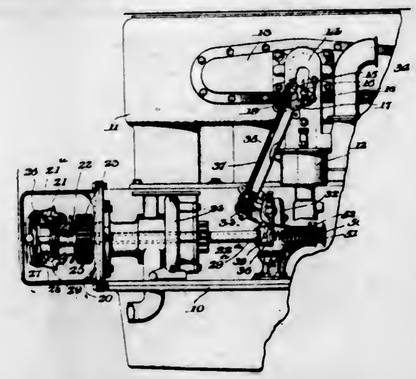
1,382,953. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 14, 1916. Serial No. 120,107. 13 Claims. (Cl. 123—90.)

1. In a hydrocarbon motor, in combination, a cam shaft casing, a cam shaft therein, a rocker arm mounted in and extended through said casing, said rocker arm being operable by said cam shaft, and a packed joint between said casing and a movable part of said arm independent of the arm mounting.

1,382,954. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 10, 1917. Serial No. 201,294. 12 Claims. (Cl. 264—3.)

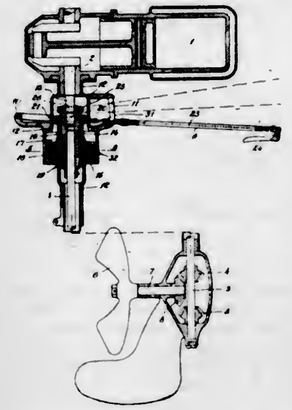
1. In a hydrocarbon motor, the combination with a throttle valve therefor, a centrifugal governor of a hollow shaft for driving said governor, a rod extending through said shaft and operated by said governor, a spring adapted to exert pressure against the said rod for yieldingly

holding the governor inoperative and the throttle open, a member interposed between said rod and said spring capa-



ble of lateral movement with respect to said rod and means pivotally connecting said throttle valve and said member.

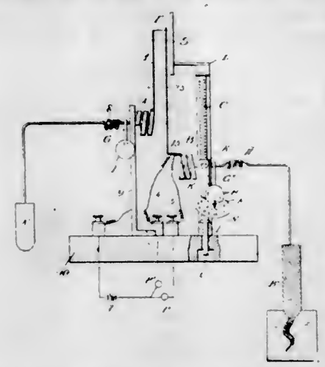
1,382,955. OUTBOARD-MOTOR FOR BOATS. JOHAN FERDINAND JULIUS CLEMENTSON, Malmo, Sweden. Filed Apr. 27, 1920. Serial No. 376,946. 12 Claims. (Cl. 115—18.)



6. An outboard motor for boats, comprising a motor, a propeller, a reversible connection for transmitting and reversing rotary motion from the motor to the popeller, and a disconnectible friction element interposed between the motor and reversible connection for automatically disconnecting the propeller from the motor during the reversing of said reversible connection.

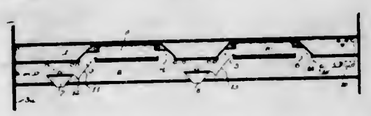
1,382,956. APPARATUS FOR REGULATING HUMIDITY. STUART W. CRAMER and WILLIAM B. HODGE, Charlotte, N. C., assignors to Parks-Cramer Company, Fitchburg, Mass., a Corporation of Massachusetts. Original application filed Dec. 26, 1907, Serial No. 408,049. Divided and this application filed Sept. 14, 1911. Serial No. 649,224. 8 Claims. (Cl. 236—27.)

1. Apparatus for automatically regulating humidity comprising in combination, two thermal elements containing liquid adapted to produce change of internal vapor pressure therein according to temperature change and including flexible walls constituting motor members actuated by such changes, said elements being independently subjected to the wet and dry bulb temperatures of the air, a humidity controlling device moved by said elements



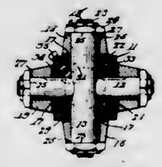
and arranged to be operated only by the difference of the action of said motor members, valve mechanism directly controlling the proportion of moisture in the air and a source of power for operating said mechanism controlled by said device.

1,382,957. CONVEYING APPARATUS FOR OVENS, DRYING-ROOMS, AND THE LIKE. FREDERICK H. CURRY, Detroit, Mich., assignor to Young Brothers Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 21, 1919. Serial No. 339,771. 3 Claims. (Cl. 91—55.)



1. In systems for applying coatings to articles under quantity production conditions, and wherein a succession of articles are subjected to coat-applying and heat treatment operations in automatic succession, a coat-applying station, an oven structure out of vertical alinement with the station, a continuous conveyer adapted to support the articles being treated, and means for supporting the conveyer to provide a flight passing the coat-applying station and a flight extending in the direction of length of the oven, with the plane of the latter flight above that of the first flight, said flights being connected by an intermediate flight inclined forwardly and upwardly in the direction of conveyer advance.

1,382,958. UNIVERSAL JOINT. LEE G. DANIELS, Rockford, Ill. Filed Nov. 30, 1918. Serial No. 264,820. 9 Claims. (Cl. 64—102.)



7. In a universal joint, the combination of a pair of yokes having alined trunnion bearings in their terminal arms, a transmission block having trunnions located in

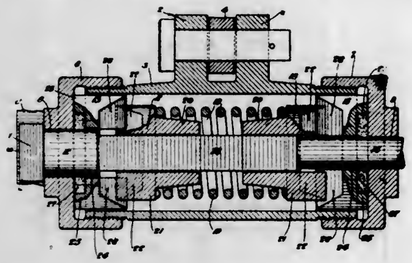
said bearings, the outer ends of the bearings being open, means in coöperative relation to said trunnion bearings for supplying lubricant thereto, a comparatively flat plate seated on the outer face of each terminal arm and covering the opening of its respective trunnion bearing, and cap screws passed through each plate and threadingly engaged in the respective yoke arm for clamping a plate thereto.

1,382,959. NUT-LOCK. JOHN C. DEUCHLER, Tiffin, Ohio. Filed June 1, 1920. Serial No. 385,554. 2 Claims. (Cl. 151—5.)



1. A bolt, a nut threaded thereon, and a reversely threaded screw tapped through said nut to engage said bolt, substantially as described.

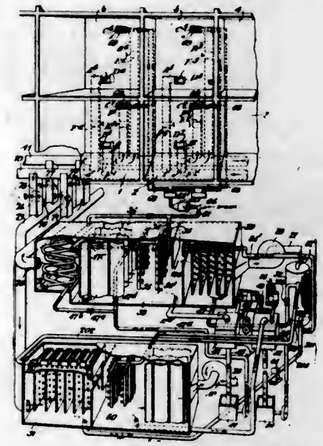
1,382,960. SPRING-SWITCH. ISRAEL K. DIXON, Johnstown, Pa. Filed Jan. 6, 1921. Serial No. 435,360. 5 Claims. (Cl. 246—318.)



1. The combination with a spring switch tongue and spring box therefor, of means for yieldably holding said switch tongue in either of its thrown positions, said means comprising a rocking spring barrel, a stationary shaft on which the barrel is journaled within said spring box, coacting spring pressed wedging members within said barrel adapted to yieldably hold it against rotation, and means connecting said barrel and said switch tongue.

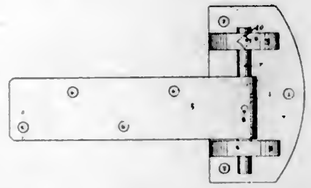
1,382,961. VENTILATION. HENRY L. DOHERTY, New York, N. Y. Continuation of applications Serial Nos. 633,367, 633,368, and 633,369, filed June 15, 1911; also Serial No. 701,873, filed June 5, 1912, and Serial Nos. 855,235 and 855,236, filed Aug. 7, 1914. This application filed Dec. 15, 1916. Serial No. 137,107. 73 Claims. (Cl. 98—33.)

54. The process of conditioning air for ventilation which comprises scrubbing incoming air with a body of water, scrubbing outgoing air, as the first step in its treatment, with a second body of water, and establishing heat-transferring relationship in counter-current flow between the said first and second bodies of water, further cooling said warmer air down to a temperature substantially corresponding to the dew point of the conditioned air, by evaporating water from a body of the same maintained in heat absorbing relationship with said partially cooled warmer air, contacting the cooler air with water after the said air has been partially reheated in said first treatment step, withdrawing said water from contact with said cooler air, compressing the water vapor formed by the evaporation of water from the body of the same in contact with the said warmer air to a pressure corresponding to that of saturated steam at a temperature above the temperature of the said water that has been contacted with the said used air in said second treatment step, contacting the said compressed vapor with said water to condense



said vapor and to heat said water, and returning said heated water to contact with said used air, whereby heat of said condensed vapor is transferred to said outgoing used air.

1,382,962. HINGE. ALBERT H. EHRLICH, St. Joseph, Mo. Filed July 14, 1919. Serial No. 310,647. 1 Claim. (Cl. 16—163.)



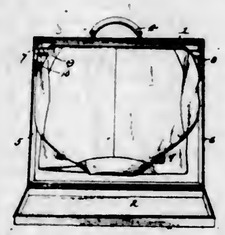
A hinge which includes a plate and horizontally extending lugs having alined holes therein, a strap of appreciably less width than the distance between the lugs, a pintle extending through said holes in the lugs and rotatable therein, and to which one end of the strap is secured, the pintle having a helical groove or way at one end thereof, one of the lugs having a threaded hole in registry with the groove or way in the pintle, a metallic ball positioned in said hole and extending into the groove or way and a set screw screwed into the threaded hole against the metallic ball.

1,382,963. CEREAL FOOD AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed May 16, 1919. Serial No. 297,573. 5 Claims. (Cl. 99—10.)

1. The process of making a cereal preparation adapted for use as a human food which comprises soaking an amount of bran in a liquid containing a lesser amount of sugary material and without destroying the structure of the bran, and drying the product at a temperature high enough to produce a curling of the bran flakes.

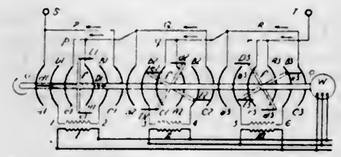
1,382,964. SUITCASE. CHARLES FASEL and WILLIAM W. GARLAND, Butte, Mont. Filed Aug. 13, 1920. Serial No. 403,272. 8 Claims. (Cl. 190—41.)

1. In combination with a suitcase, a hanger rod located in the upper portion thereof over which a coat and vest may be folded; means for detachably securing said rod in place; a form around which the upper portion of said



coat and vest may be folded; and a second form around which the lower portion of said coat and vest may be folded.

1,382,965. HIGH-TENSION-RECTIFYING APPARATUS. NICHOLAS V. FEDOTOFF, Brooklyn, N. Y. Filed Mar. 22, 1918. Serial No. 223,975. 8 Claims. (Cl. 175—364.)



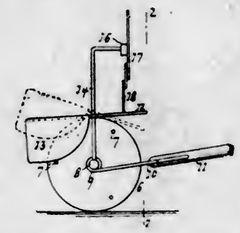
1. A high tension rectifying apparatus comprising polyphase windings each having a plurality of terminals, fixed contact members each adapted to be connected to one of said terminals, a set of fixed contacts of positive and negative sign associated with each of said fixed contact members, the contacts of positive sign in one phase being connected to the contacts of negative sign in an adjacent phase, and means comprising movable bridging members associated with the contacts and contact members of the several phases, for maintaining the windings of all phases in series circuit connection and reversing the connection in circuit of each winding whenever the direction of current changes therein.

1,382,966. PIN-CATCH. JOHN FIELDING, Providence, R. I. Filed Apr. 10, 1919. Serial No. 289,018. 2 Claims. (Cl. 24—157.)



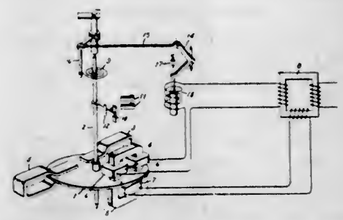
2. In a catch for pins or brooches, the combination with a keeper-member constructed from a flat blank having a central tab forming a hook at the top and provided with wing-like extensions folded together to form opposite parallel sides at the base, the fold of the blank being apertured to provide an integral cross-bar connecting the opposite sides of the base, of a bifurcated guard-member formed of flat stock to adapt it to be inserted between the sides of the keeper and provided with a tail-like extension encircling the cross-bar to pivotally connect the guard with the keeper to adapt it to rock into open relation therewith.

1,382,967. WHEEL TOY. ANDREW B. FOANS, New York, N. Y. Filed Sept. 21, 1920. Serial No. 411,799. 5 Claims. (Cl. 46—45.)



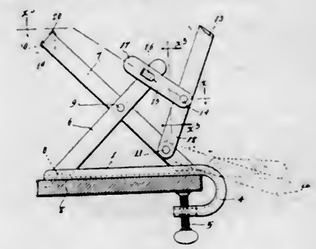
1. A toy comprising a wheel, a frame supported on the wheel, a figure suspended from the frame, and a platform loosely connected to the frame operated by the wheel to actuate the figure.

1,382,968. PROTECTIVE DEVICE. HENRY G. FRENCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,019. 11 Claims. (Cl. 175—294.)



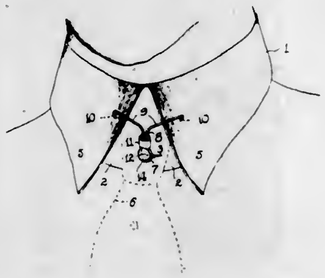
1. In a relay device, the combination with a movable armature member, a torque producing element for moving said armature in one direction, a counter-torque producing means for normally overcoming the effect of said torque producing element, and means operative under predetermined abnormal conditions for reducing the effect of said counter-torque element to enable said torque element to overcome said counter-torque element, said means acting to restore the effect of said counter torque element upon the return of normal conditions whereby said counter-torque element overcomes said torque element.

1,382,969. CANTEEN-HOLDER. SIGMUND FREY, Los Angeles, Calif., assignor to Woolwine Metal Products Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 5, 1920. Serial No. 371,517. 4 Claims. (Cl. 224—29.)



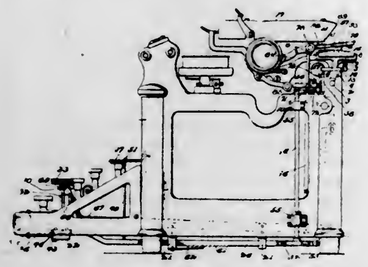
2. In a canteen holder, opposed members adapted to hold a canteen between them, means to attach said members to a support, one of said members being movable and the other stationary, and latch means between the opposed members to hold the movable member against movement away from the stationary member.

1,382,970. HOLDER FOR SOFT COLLARS. NELSON D. FRISBIE, Detroit, Mich., assignor of one-half to William E. Sewell, Detroit, Mich. Filed Jan. 20, 1921. Serial No. 438,611. 4 Claims. (Cl. 24—87.)



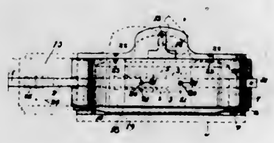
1. A collar holder comprising an eye adapted to fit on a collar button, a shank carried by said eye and terminating in arms adapted to engage collar flaps, and means slidable on said shank adapted to engage behind a collar button head to prevent displacement of the eye relative to the button.

1,382,971. TABULATING ATTACHMENT FOR TYPEWRITERS. MARVIN GARRETT, Pensacola, Fla. Filed Nov. 20, 1919. Serial No. 339,463. 37 Claims. (Cl. 197—177.)



1. A tabulating attachment for typewriters comprising a stop bar provided with a plurality of sockets arranged in longitudinal and transverse rows, stops selectively engaged in said sockets, counterstops upon the typewriter carriage to engage said stops, and means for rocking the stop bar and shifting the same longitudinally to bring a selected stop into operative position.

1,382,972. CALLUS AND CORN REMOVER. GEORGE GIEFERS, Brooklyn, N. Y. Filed Aug. 29, 1919. Serial No. 320,603. 1 Claim. (Cl. 30—23.)



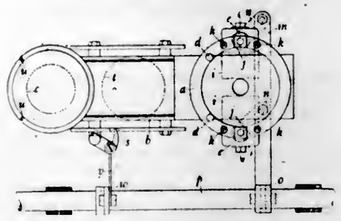
As an improved article of manufacture a safety, adjustable cutter comprising a base bar, a guard and two clamping plates operated by a cam lever and a blade held frictionally between the clamping plates with its cutting edge projecting beyond the longitudinal edges of the clamping plates and guard.

1,382,973. CURTAIN-ROD HOOD. ALMA E. GRADY, Gardena, Calif. Filed Sept. 15, 1920. Serial No. 410,396. 2 Claims. (Cl. 223—38.)



1. A protecting hood for curtain rods, comprising a cylindrical hollow body having an open end and a closed end, and adapted to telescope a curtain rod to shield the sharp edges of the open end of the curtain rod as it passes through the fold of the curtain, the closed end being rounded to facilitate an easy passage of the hood through the fold of the curtain and to prevent catching in the fabric of the curtain, the wall of the cylindrical body having a plurality of longitudinally extending corrugations, permitting of an expansion of the cylindrical wall, when applying the hood to end of the rod, said longitudinal corrugations merging into the rounded closed end of the hood.

1,382,974. SHEET-METAL-WORKING MACHINE. HARRY ALBERT GRIFFITHS, Edgbaston, Birmingham, and RICHARD HANSON GRIFFITHS, Sutton Coldfield, England. Filed Mar. 23, 1921. Serial No. 454,832. 4 Claims. (Cl. 271—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. In mechanisms for automatically feeding sheet metal blanks to the tools of cutting, drawing, embossing and like presses, the combination of a movable blank holder in which a stack of blanks is placed, rotatable knife edge separating tools adapted to enter between the bottom blank and those above it, and means for lifting the holder and the separating tools so that the stack of blanks is raised clear of the bottom blank and the latter is thereby released for transfer to the press tools, substantially as described.

1,382,975. METAL SCREEN OR SEPARATOR FOR GASES. EDWARD W. HASLUP, Bronxville, N. Y. Filed Dec. 31, 1919. Serial No. 348,596. 5 Claims. (Cl. 183—32.)



1. In a separator for gases the combination of a drum; a closure plate for the inlet end of said drum provided

with a plurality of inlet openings; a frame work surrounding each opening and disposed longitudinally of said drum; foraminous filtering screens of heat conducting material and having substantially vertical side walls secured to each of said frame works, said screens spaced from said drum and from each other throughout their extent to provide a space into which the gases may expend; a closure for the exit end of said drum; an exit pipe common to all of said screens to convey away the filtered gases; and an inlet pipe materially smaller in cross section than said drum common to all of said openings and adapted to lead gases to be filtered to said screen, substantially as described.

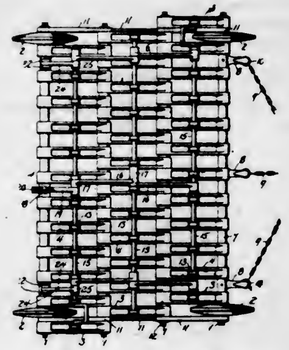
1,382,976. EMBROIDERING. BENEDIKT HAUSER, Romanshorn, Switzerland. Filed Aug. 1, 1919. Serial No. 314,689. 7 Claims. (Cl. 112—266.)



1. The method of making embroidery strips presenting patterns of large repeats, which comprises embroidering designs forming portions of the pattern with needles less in number than the number of single repeats in the width of the pattern, then effecting relative horizontal displacement of fabric and needles to an amount greater than the width of a single repeat, and embroidering design portions between the first embroidered portions with the same needles and needle spacing.

5. An embroidered strip comprising different groups of pattern portions, each group consisting of at least two congruent pattern portions, and said groups alternating side by side.

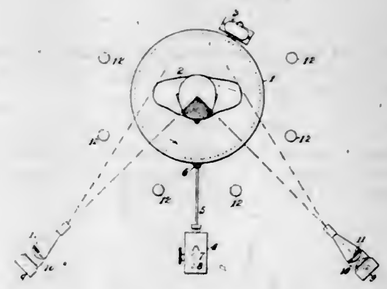
1,382,977. HARROW. GEORGE W. HOLMES, Vincent, Ala. Filed Sept. 18, 1920. Serial No. 411,230. 3 Claims. (Cl. 55—32.)



1. In a harrow, a plurality of parallel shafts, the two end shafts carrying wheels, a plurality of series of harrow teeth supporting members, loosely connected with said shafts, harrow teeth pivotally supported by said members, parallel rods passing loosely through the upper ends of said harrow teeth, and links for connecting said rods, said rods passing loosely through said links.

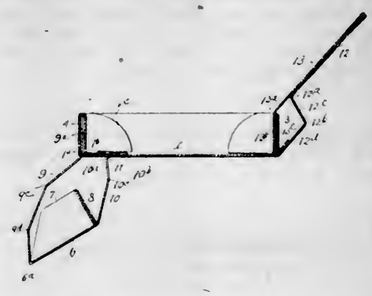
3. In a harrow, a plurality of parallel shafts, the two end shafts carrying wheels, harrow teeth supporting bars loosely connected with said shafts and provided each with a longitudinally extending slot, harrow teeth projecting through said slots, and pivotally connected with said bars, rods passing through the tops of said harrow teeth, links connecting said rods, said rods passing loosely through said links, and means for simultaneously moving said harrow teeth on their pivots.

1,382,978. PHOTOSCULPTURE. MARCUS C. HOPKINS, Falls Church, Va., assignor of one-half to Frank L. Dyer, Montclair, N. J. Filed Oct. 18, 1919. Serial No. 331,584. 15 Claims. (Cl. 41—25.)



1. The art of making plastic reproductions of three dimensional objects, which consists in casting a shadow circumferentially on the object, in causing the shadow to progress successively over the surface of the object, in making a series of photographs of the shadow thereby obtaining a series of contour lines representing successive sections of the object, and in making pantographically from these photographs the reproduction desired, substantially as set forth.

1,382,979. CARTON. JOHN V. HORR, Cleveland, Ohio, assignor to A. T. Fischer, Cleveland, Ohio. Filed May 8, 1920. Serial No. 379,759. 13 Claims. (Cl. 206—44.)

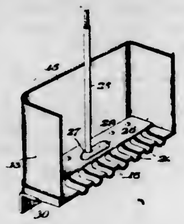


1. A carton having a body portion, a cover therefor, said cover being hinged upon the said body portion at a place other than that at which the display member is mounted, a display member hingedly mounted upon the body portion of the carton, and resilient means normally urging the display member into upright position.

1,382,980. BATTERY-BOX. ORMOND E. HUNT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1917. Serial No. 202,503. 1 Claim. (Cl. 220—55.)

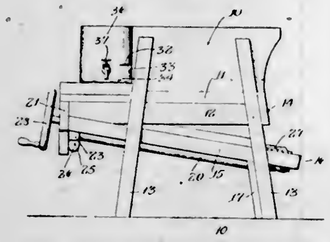
A battery box having a bottom formed with an inward depression and an opening in said depression, a battery securing rod extending through said opening and having

a bent end in said depression and a plate angular in section secured to the bottom and covering said depression



to retain the bent end of the rod therein, said plate also being secured to the battery box supporting bracket to support the box thereon.

1,382,981. GRAIN-TREATING MACHINE. LUDVIG A. IVERSON, Lankin, N. D. Filed July 8, 1919. Serial No. 309,417. 1 Claim. (Cl. 83—28.)



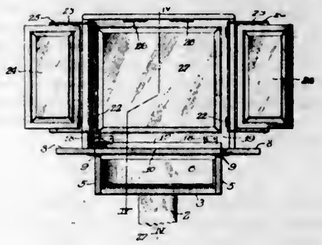
In a grain treating machine, the combination with a hopper having a discharge opening and a grain conveyer and mixer located below the hopper, a spout mounted below the discharge opening, a guide plate in the discharge opening for directing the flow of grain to the center of the spout, a liquid container mounted adjacent the discharge opening and above the spout, and a horizontal plate mounted within the spout and extending transversely of the spout to receive thereon the liquid discharged from the said container, and to deflect the liquid across the path of flow of grain from the hopper.

1,382,982. VAGINAL SYRINGE. EUGENE JEANJAQUET, Swartz Creek, Mich. Filed June 28, 1920. Serial No. 392,278. 1 Claim. (Cl. 128—244.)



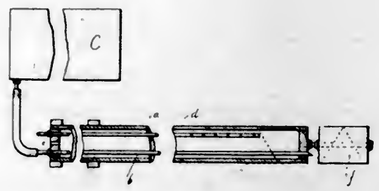
In a vaginal syringe, an eduction tube having an induction tube movable axially thereof, a series of dilating fingers, each finger being pivotally mounted at its rear end to the eduction tube, and a series of braces, each being pivotally secured at one end to one of the dilating fingers, and at the opposite end being provided with a terminal member, a collar upon the induction tube having formed therein on its forward face an annular groove and having notches to receive the terminal members of the braces, and a spray head secured detachably upon the front end of the induction tube and arranged so that when in operative position, its rear portion forms a closure for the annular groove in the collar, to hold the terminal members of the braces in pivotal engagement therewith.

1,382,983. TABLE-TOP. JOHN T. KENT, Detroit, Mich. Filed Dec. 31, 1919, Serial No. 348,644. Renewed Mar. 7, 1921. Serial No. 450,416. 1 Claim. (Cl. 45—70.)



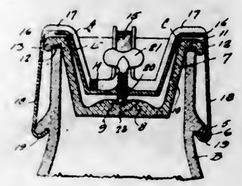
A table top comprising a body having a main table top, side shelves carried by said body and adapted to provide extensions of said main table top, an auxiliary table top supported at the rear edge of said main table top and adapted to be swung to a vertical position and so retained by said side shelves, and mirrors carried by said auxiliary table top.

1,382,984. SPIRAL-TUBE-WINDING MACHINE. ALBERT KING, Ashton-under-Lyne, England; Kathleen Winifred King administratrix of said Albert King, deceased. Filed Jan. 20, 1919. Serial No. 272,126. 11 Claims. (Cl. 91—44.)



1. The combination with a mandrel of a tube winding machine, of means for automatically supplying a fluid coating material to the interior surface of a tube, formed on the mandrel, beyond the free end of the mandrel.

1,382,985. JAR-CLOSURE. WILLIAM F. KIPP, Fort Lupton, Colo. Filed Dec. 22, 1919. Serial No. 346,592. 5 Claims. (Cl. 215—88.)

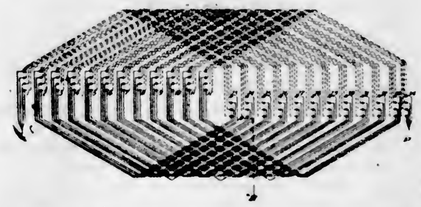


1. The combination with a jar including a relatively wide neck, of a closure therefor including a body portion arranged to fit in the jar neck in spaced relation to the inner wall thereof, the upper ends of the body portion having outwardly extending flanges arranged to engage the upper edge of the jar neck, and means for holding the flanges in engagement with the upper edge of the jar neck having the major portion thereof located below the plane of the upper edge of the closure.

1,382,986. WATERPROOFING MATERIAL AND METHOD OF MAKING SAME. LOUIS M. KREGELIUS, Cleveland, Ohio. Filed Nov. 14, 1918. Serial No. 262,582. 9 Claims. (Cl. 106—27.)

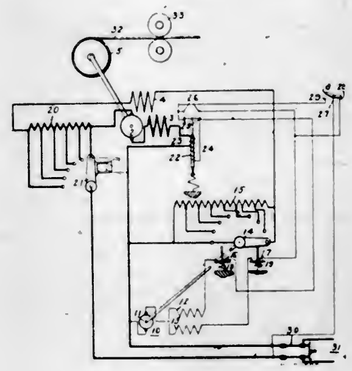
1. A waterproofing material for cement, which consists of a water-repellent wax-like body in finely divided form intimately associated with slaked lime.

1,382,987. ARMATURE-WINDING. JAN ARTHUR KUYSER, Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 16, 1913. Serial No. 761,443. 4 Claims. (Cl. 171—206.)



1. In a dynamo-electric machine, the combination with a slotted armature core member having an armature winding embedded in the slots thereof, said winding being provided with two current taps at points of opposite polarity, the portion of said armature winding included between said taps providing a plurality of distinct conducting paths said paths being provided by conductors traversing the same slots in the same order, each of said conductors traversing different slots of said core member at different depths, the resultant reactance of all of said conducting paths being substantially equal.

1,382,988. MOTOR-CONTROL SYSTEM. EDWIN S. LAMMERS, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1917. Serial No. 200,008. 7 Claims. (Cl. 172—239.)



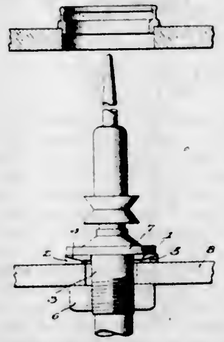
1. In a system of control, the combination with a motor having an armature and a shunt-field winding, and a source of energy for said motor, of a relay having a pair of actuating coils respectively in series with said armature and connected to said source, and means controlled thereby for varying the energization of said shunt-field winding in accordance with the load conditions of the motor, said source-connected coil being energized only when said other coil is energized below a predetermined degree.

1,382,989. FUSE-BOX. THOMAS AUGUSTINE LEE, Essendon, Melbourne, Victoria, Australia. Filed Feb. 9, 1920 Serial No. 357,318. 3 Claims. (Cl. 200—121.)



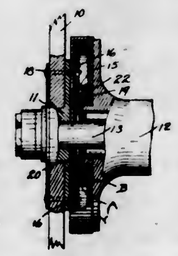
1. A fuse box having spaced terminal contacts, a cover having connecting members to engage said contacts, a fuse strip extended between said connecting members, a lever pivotally mounted in a recess formed in the cover, means depending from the lever and encircling the fuse strip intermediate the connections, and a spring for projecting the lever in part above the cover under the influence of the spring on the separation of the fuse strip.

1,382,990. SPINDLE-MOUNTING. PAUL LEVASSEUR, Fall River, Mass. Filed July 10, 1920. Serial No. 395,349. 2 Claims. (Cl. 64—72.)



2. In combination with a rail, and a spindle having a base and a stem depending therefrom, a male and a female member each of ring-like shape and formed independent of the spindle and one another, said members having interengaging inner beveled faces and having their outer faces interposed between the base and the rail, respectively, so that the base rests upon and is supported by the two members, and means to draw the stem downwardly to thereby cause the base to exert holding action on the two members, one of the members closely engaging about the stem so as to partake of all lateral movements thereof and the other member having an opening considerably larger than the diameter of the stem.

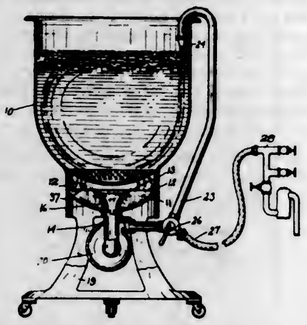
1,382,991. GREASE-RETAINER. ARTHUR P. LINVILLE and CLARENCE E. LINVILLE, Berkeley, Calif. Filed Oct. 22, 1919. Serial No. 332,409. 2 Claims. (Cl. 301—123.)



1. In combination with a wheel, an axle housing, an axle, a brake drum, and a cup-shaped ring attached to

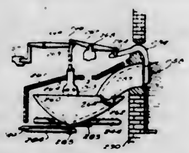
the inside of the brake drum and surrounding the axle, and a packing washer arranged in the ring of a second packing washer between the closed end of the ring and the opposing end wall of the axle housing.

1,382,992. WASHING-MACHINE. NATHANIEL LOMBARD, Worcester, Mass., assignor to Lombard, White Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 14, 1920. Serial No. 403,520. 12 Claims. (Cl. 259—98.)



1. In a washing machine, the combination with a tub or receptacle for the water and articles to be washed, having in a wall thereof, adapted to be covered by the water, a perforated surface, of means for introducing water into said receptacle in a direction to produce an endless current around said receptacle and along said perforated surface, give the contents of the receptacle a whirling motion therein, and draw the articles to be washed along said perforated surface and substantially in contact therewith during their whirling course, and means for drawing the overflow out through said perforations during the continuance of the whirling motion to keep the level of water in the receptacle constant.

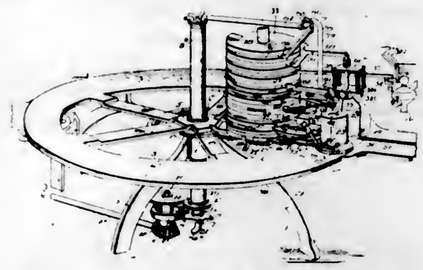
1,382,993. MEANS AND METHOD FOR PRODUCING CHARGES OF MOLTEN GLASS. CLYDE R. LOTT, Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, trustee, Toledo, Ohio, a Corporation of Ohio. Original application filed Sept. 27, 1909, Serial No. 519,678. Divided and this application filed Jan. 7, 1920. Serial No. 349,922. 15 Claims. (Cl. 49—55.)



5. The method of feeding molten glass, which consists in intermittently delivering from a tank to a container exterior thereof, predetermined quantities of molten glass, causing the same to be intermittently discharged downward from the container through an outlet orifice and subjecting the discharged glass to the action of a mechanical shearing means spaced below the orifice whereby to form mold charges.

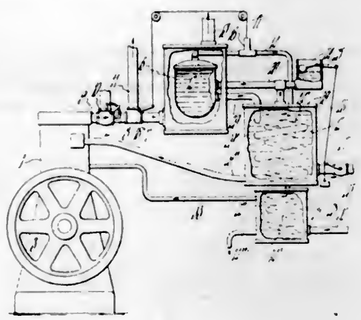
1,382,994. METHOD AND APPARATUS FOR MAKING GLASS ARTICLES. CLYDE R. LOTT, Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, trustee, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 27, 1909, Serial No. 519,678. Renewed Mar. 27, 1920. Serial No. 369,439. 52 Claims. (Cl. 49—1.)

36. The combination of a blank mold and a finishing mold located side by side and each comprising sections hinged to swing horizontally to open the mold, said molds arranged so that each mold is opened at the side facing the other mold, and automatic means to transfer a blank by a horizontal movement from the blank mold into the finishing mold.



49. The combination of a receptacle to contain molten glass, said receptacle having an opening through which a stream or column of glass issues, means to periodically restrict the diameter of the issuing glass adjacent the outlet, a mechanical shear, and means to operate the shear to sever the glass at the point of restriction.

1,382,995. PROCESS AND APPARATUS FOR THE UTILIZATION OF HEAT IN OIL-ENGINES. HERBERT R. LUCKE, Dallas, Tex., assignor to McIntosh & Seymour Corporation, Auburn, N. Y., a Corporation of New York. Filed Feb. 16, 1920. Serial No. 358,856. 19 Claims. (Cl. 123—3.)

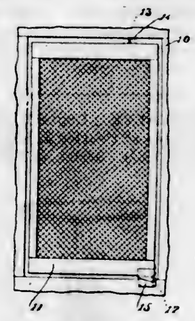


1. In an apparatus for the utilization of heat of internal combustion engines, the combination with said engine of an oil still comprising a retort to contain the oil being distilled, means for heating the retort with the heat given off by said engine when in operation, and means to conduct the undistilled residue from said retort to the fuel inlet of said engine.

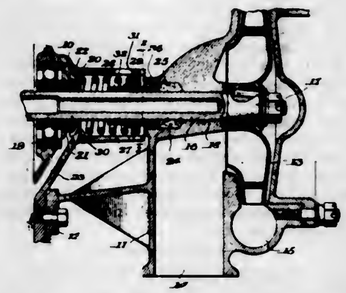
1,382,996. HINGE. PETER R. LYDING, Sacramento, Calif. Filed Oct. 19, 1920. Serial No. 418,043. 6 Claims. (Cl. 16—103.)

4. A hinge mounting for doors comprising a vertical pin extending upwardly from the top of the door and pivotally seated within the door frame, a vertical pin extending downwardly from the bottom of the door and pivotally seated in the threshold of the door, a horizontally extending convex member mounted upon the threshold and disposed in parallel alinement with the bottom of the door when closed and a cam plate carried by the

bottom of the door and having a concave portion normally seating on the convex member and having outwardly and downwardly extending wedge-shaped flanges by which the door may be restored to its closed position when opened.

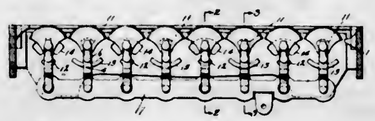


1,382,997. PUMP-DRIVING MECHANISM. GEORGE L. MCCAIN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 30, 1917. Serial No. 204,755. 3 Claims. (Cl. 286—7.)



1. In a pump driving mechanism, the combination with a pump casing, an impeller therein, and a shaft connected to the impeller, of a compressible packing ring around the shaft, a sliding sleeve in contact with the packing ring and keyed to prevent turning with the shaft, and a spring bearing against the sleeve and a non-rotating wall to compress said packing ring.

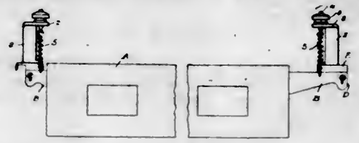
1,382,998. GRATE-BAR AND SUPPORT THEREFOR. EDWARD B. MCCONNELL, Newark, N. J. Filed Mar. 13, 1920. Serial No. 365,476. 4 Claims. (Cl. 126—176.)



1. In a grate, a series of identical grate bars having high and low trunnions, and means for selectively supporting said bars on either their high or low trunnions.

1,382,999. ATTACHMENT FOR ACCOUNTING-MACHINES. SAMUEL H. MCCRACKEN, New Kensington, Pa. Filed Mar. 12, 1920. Serial No. 365,210. 1 Claim. (Cl. 235—59.)

In a combined typewriting and computing machine, the combination with the carriage of the typewriter, a totalizer truck associated therewith, oppositely extending arms on said truck and guides permitting said arms a limited vertical movement, of brackets attached to said carriage



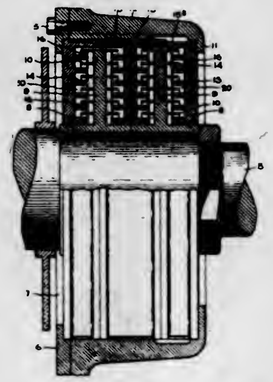
and overhanging said arms, and an adjustable spring connection between each arm and the adjacent bracket.

1,383,000. SPINDLE-RETAINER. CHARLES E. MCGILL, Binghamton, N. Y. Filed Dec. 6, 1920. Serial No. 428,597. 10 Claims. (Cl. 118—65.)



4. The combination with a vertical spindle having an annular flange adjacent to the lower end thereof, a bolster member upon which said spindle is journaled, and a bracket member for supporting said bolster,—of a plate frictionally held between said bolster and said bracket and movable relatively thereto, and an upturned projection carried by said plate, the free end of said projection being adapted to overlap the upper face of said flange.

1,383,001. PACKING. THOMAS J. MCGRATH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 13, 1919. Serial No. 337,804. 3 Claims. (Cl. 286—7.)



1. The method of making a packing element which comprises taking a member having spaced projecting con-

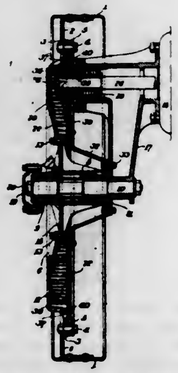
centric rings thereon, machining grooves in the edges of said rings to form projecting parts, and then turning the said parts outwardly in opposite directions and at an angle to said rings.

1,383,002. PISTON-ROD AND PROCESS OF MAKING SAID ROD. EDWIN J. MCILVRIED, Lakewood, Ohio. Filed June 30, 1920. Serial No. 393,011. 5 Claims. (Cl. 29—156.5.)



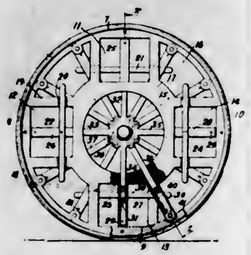
1. A steel piston-rod having a central bore which extends longitudinally of the rod and has a heat-treated surrounding wall.

1,383,003. DUST-GUARD. JOSEPH MADER, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed May 18, 1920. Serial No. 382,233. 7 Claims. (Cl. 74—7.)



1. The combination with a rotatable element and a relatively stationary element, of means for excluding dust from the interior of said rotatable element, said means comprising a member fixed with respect to said stationary element, and a flexible member carried by said rotatable element and normally inclined with respect to the axis of rotation thereof, a portion of said flexible member being adapted by contact with said stationary member to be bent to a position substantially perpendicular to said axis when said elements are in operatively assembled relation.

1,383,004. RESILIENT WHEEL. ANTOLIN NIN Y MARTINEZ, Santurce, Porto Rico. Filed Apr. 11, 1919. Serial No. 289,399. 4 Claims. (Cl. 152—28.)



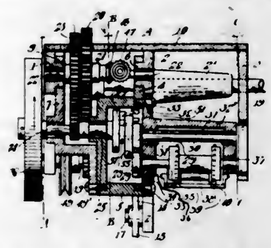
2. A resilient wheel, comprising a rim, side members secured to the rim, a hub, spokes rigid with the hub and having pistons at their ends, tubular members slidably mounted on the said members and in which the said spokes with their pistons work, and sectional spokes between the rigid spokes, the inner sections being pivoted to the hub and having pistons at their ends, the outer sections being tubular and pivoted to the rim and in which the inner sections work.

1,383,005. STEAM-VALVE. LOUIS R. MERTENS, Philadelphia, Pa., assignor to Charles J. Miller, Philadelphia, Pa. Filed Apr. 24, 1920. Serial No. 376,334. 4 Claims. (Cl. 251—167.)



2. A steam valve comprising a valve casing having a bottom opening, an orificed web in the casing, the casing having an inlet port and an outlet port on opposite sides of said web, a hollow valve guide extending through the orifice in the web, a closure for the bottom opening, an orificed neck on the closure adapted to engage said guide and hold it in fixed relation with the web, a hollow perforated valve extending into said guide and adapted to seat thereon, said valve being arranged to be inserted through the bottom opening and the orifice in the web, and a separate stem adapted to be moved in one direction to seat the valve and the opposite direction to allow steam pressure, admitted through said neck into the interior of the valve, to unseat it.

1,383,006. FILM-MOVEMENT MECHANISM OF PICTURE-MACHINES. WILLIAM EDGAR MINUE, Fredericton, New Brunswick, Canada. Filed Mar. 6, 1919. Serial No. 280,893. 5 Claims. (Cl. 74—41.)

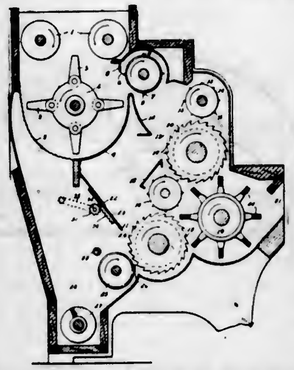


1. In a moving picture machine, a pair of shafts, a disk on one shaft, a cam on the other shaft, a swivel intermediate of the cam and disk having angularly disposed slots, pins on the cam coacting with the slots, and a sprocket shaft designed to be driven from the cam, the swivel being designed to transmit accelerated and retarding motion at predetermined times to the cam shaft.

1,383,007. COTTON EXTRACTING AND CLEANING MACHINE. JOHN E. MITCHELL, St. Louis, Mo. Filed Mar. 10, 1921. Serial No. 451,395. 4 Claims. (Cl. 19—9.)

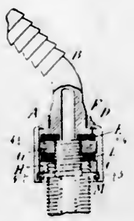
2. In a cotton extracting and cleaning machine, in combination with a saw cylinder and a hull board, the lower

end of which latter defines the size of an opening past the saw cylinder, a roller located below said opening to receive material passing therethrough, and rotating in the same direction as, and in relatively close proximity to



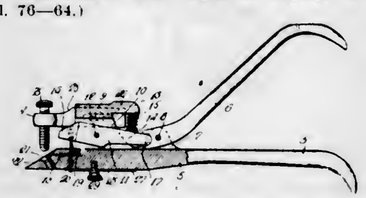
said saw cylinder, and a bar located above and extending over said roller and positioned to obstruct the backward movement of cotton particles while permitting hull particles knocked back by the saw cylinder to hurdle the same.

1,383,008. DOUBLE PUMP-COUPLING. EUGENE V. MYERS, East Orange, N. J., assignor to A. Schroeder's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 13, 1920. Serial No. 373,596. 7 Claims. (Cl. 285—124.)



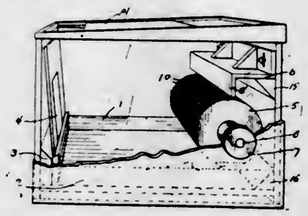
3. A coupling for pneumatic tire valves comprising two nuts, the upper nut adapted to engage a tire valve nipple, and the lower one adapted to engage the body portion of the valve, and a packing interposed between the two.

1,383,009. SAW-SET. ANDREW E. NELSON, De Kalb, Ill. Filed Feb. 19, 1920. Serial No. 359,898. 3 Claims. (Cl. 76—64.)



1. A saw set having a major portion providing a handle at one end and having a vertically upstanding part at the other end, the latter end being tapered to receive the flat surface of a saw; a short lever pivoted in the upstanding part and having its front end tapered to engage the teeth of a saw; a handle pivoted to the major portion of the device having a short end engaging the rear end of the short lever and a spring engaging the upstanding part and the rear end of the short lever to yieldingly hold the front end of the short lever normally elevated.

1,383,010. ETCHING-MACHINE. HAROLD OLSEN, New York, N. Y., assignor to Philip Becker and George Becker, New York, N. Y.; said Philip Becker executor of said George Becker, deceased. Filed May 29, 1916. Serial No. 100,574. Renewed Oct. 6, 1920. Serial No. 415,218. 8 Claims. (Cl. 41—9.)



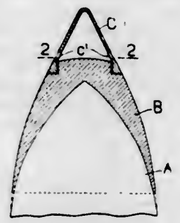
8. In an etching machine the combination with a container for the etching fluid and a holder for the plate to be etched, of a rotary sprayer having generally circular sections of variable diameter at successive points along the axis of rotation, the peripheries of said sections being in contact with the etching fluid and acting to project said fluid against said plate by centrifugal force.

1,383,011. SWITCH AND CONTACT MECHANISM FOR ELECTRIC-CURRENT-REGULATING PLUGS AND SOCKETS. ANTONIO PAPINI, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 8, 1920. Serial No. 394,725. 4 Claims. (Cl. 219—49.)



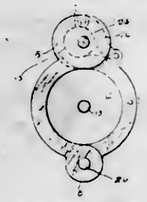
1. In a device of the character described, in combination with an inclosing casing,—a case or body,—electric contacts mounted upon the upper surface of said case,—plates contained within said case and encompassing a tubular axial extension integral therewith,—a socket secured to the base of the casing,—and assembled electrical connections for completing the circuit of the device.

1,383,012. ARMOR-PIERCING SHELL. ALBERT RYS, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,078. 2 Claims. (Cl. 102—28.)



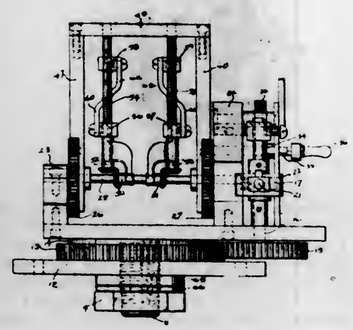
1. Armor-piercing shell having a cap and a hollow hood projecting beyond the said cap, said hollow hood being provided with perforations.

1,383,013. FRICTION-BRAKE. PASQUALE PASQUARIELLO, Hamden, Conn. Filed June 24, 1920. Serial No. 391,442. 3 Claims. (Cl. 188—18.)



1. A brake composed of two members, one including a body provided at one end with a knuckle and at the opposite end with a reversely curved hook, a component member provided at one end with a pair of knuckles between which the knuckle of the other member may extend, and with two disk-like heads between which the said hook may be inserted, a cam mounted in the said heads and having a bearing in said hook, whereby the turning of the cam will draw the two members together.

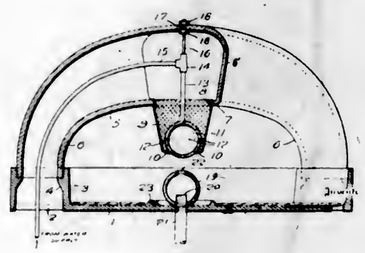
1,383,014. EXTENSION-LADDER. PASQUALE PASQUARIELLO, Hamden, Conn. Filed June 24, 1920. Serial No. 391,443. 3 Claims. (Cl. 227—17.)



1. An extension ladder comprising a table provided on its under face with a post, a support for said post including a fixed externally cut gear, a horizontal shaft mounted on said table, gears fixed to said shaft, posts connected with said gears, said posts connected at their upper ends, beveled gears mounted on said shaft, screws supported by said frame and shaft and provided with bevel gears at their lower ends meshing with the bevel gears on said shaft, a nut and loose collar mounted on each of said screws and a lazy-tongs ladder connected with said nuts and collars and means for turning said shaft.

1,383,015. VAPORIZER HYDROCARBON-BURNER. ALBERT WARD PATTISON, Lockport, N. Y. Filed May 25, 1920. Serial No. 384,189. 8 Claims. (Cl. 158—53.)

1. A hydrocarbon burner comprising the combination of a base provided with air-apertures, arched air-tubes communicating with said apertures and converging toward a common central portion provided with an opening in its bottom, a screen depending from said opening in the bottom of said central portion, means for projecting



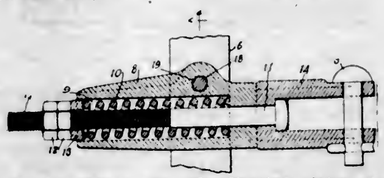
water through said screen, and an oil-supply pipe projecting through said base-plate and disposed beneath said screen.

1,383,016. HAIRPIN. WALTER F. PEET, Philadelphia, Pa., assignor to himself and Edward B. Peet, Philadelphia, Pa., Copartners trading under the name of Peet Brothers. Filed Mar. 15, 1921. Serial No. 452,472. 2 Claims. (Cl. 132—50.)



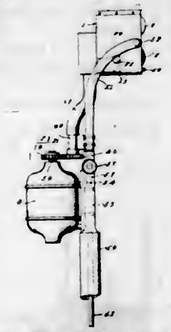
1. A hair pin comprising a single wire bent upon itself to provide two legs, each leg comprising a series of straight sections and a series of bends, each bend being joined to its most nearly adjacent bend by a straight section and each straight section being joined to its most nearly adjacent straight section by a single bend, the straight sections and bends of one leg being respectively opposite the straight sections and bends of the other leg, all the bends being at an angle to a plane normally approximately coincident with the axes of the straight sections of both legs, each bend extending oppositely to the most nearly adjacent bend of the same leg as well as oppositely to the corresponding bend of the other leg.

1,383,017. COUPLING. CHARLES H. PELTON, Springfield, Ohio, assignor to The Thomas Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Apr. 26, 1920. Serial No. 376,642. 7 Claims. (Cl. 213—67.)



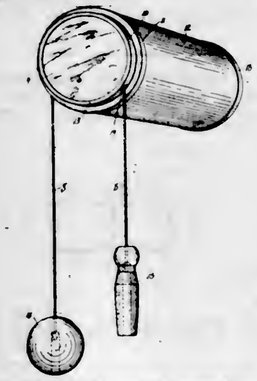
2. In a coupling, opposed adjusting plates, a draft head mounted for vertical adjustment therebetween, and means adjustably engaged with the plates for drawing the latter together to rigidly clamp the draft head therebetween in various horizontal positions.

1,383,018. WINDOW-CLEANING DEVICE. JOHN J. PETERSON, Steubenville, Ohio. Filed Oct. 17, 1919, Serial No. 331,350. Renewed Oct. 1, 1920. Serial No. 414,142. 5 Claims. (Cl. 15—59.)



1. In a window cleaning device, a casing, a brush rotatably mounted therein and projecting beyond the casing, a roller rotatably mounted in the casing above and substantially in the plane of the brush, means for rotating said roller and brush, means for supplying a washing solution to the brush, means in contact with said roller for removing moisture therefrom, a second roller mounted in the casing, means for holding said second roller in contact with the first mentioned roller, and means for removing moisture from the second mentioned roller.

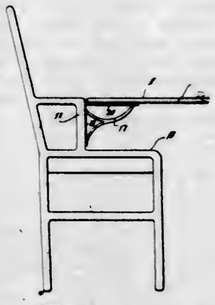
1,383,019. KALEIDOSCOPE. JOHN W. PETRIE, New Haven, Conn. Filed Nov. 4, 1920. Serial No. 421,673. 6 Claims. (Cl. 88—15.)



1. A kaleidoscope having a rotatable object-box, a housing within which the same is inclosed, and a cord

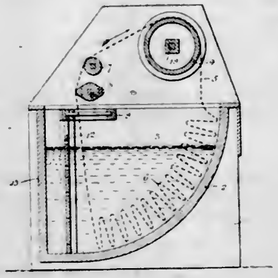
applied directly to the said box for turning the same and having its ends extended outward through the said housing.

1,383,020. TRAY-CHAIR. GEORGE LOUIS PLATTS, Detroit, Mich. Filed Sept. 9, 1920. Serial No. 409,230. 7 Claims. (Cl. 155—128.)
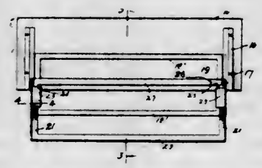


1. The combination with a serving tray and a chair, of means for detachably securing the serving tray to the chair embodying a support secured to the chair provided at its upper end with means adapted to engage a side of the tray to prevent vertical displacement thereof and means extending forwardly from the support for engaging the under surface of the tray to support the same.

1,383,021. APPARATUS FOR BLEACHING, DYEING, &c. MAX POETZSCH, Clifton, N. J. Filed Nov. 6, 1919. Serial No. 336,005. 13 Claims. (Cl. 8—19.)



1. An apparatus for bleaching, dyeing, etc., comprising a liquid containing vat, means for feeding cloth into the vat and removing the cloth from the vat in a continuous movement, and means for longitudinally refolding the cloth each time it passes over said feeding means.

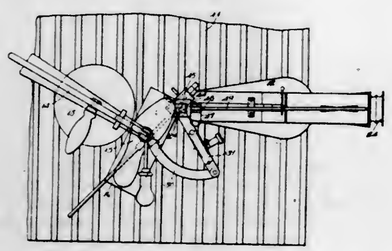
1,383,022. CABINET. GEORGE POLL, New York, N. Y. Filed May 28, 1920. Serial No. 384,968. 3 Claims. (Cl. 211—7.)



1. A cabinet, including a bed plate, a pair of track members secured one adjacent each of the side edges of said bed plate, rails slidably associated with said track members, a receiving carriage slidably mounted upon said rails, said carriage presenting a pair of uprights, a rail

extending between the lower ends of said uprights, a bar extending between the upper ends thereof, side members having their rear ends secured to said uprights, and an angle iron extending between and secured to the forward ends of said side members.

1,383,023. PATTERN-CUTTING MACHINE. ALBERT F. PRESTON, Boston, Mass.; John Abbott, Winchester, Mass., and Alfred Benson White, Brookline, Mass., administrators of said Albert F. Preston, deceased, assignors to John Abbott, Winchester, Mass., and Alfred B. White, Brookline, Mass. Filed May 18, 1916, Serial No. 98,342. Renewed Oct. 6, 1920. Serial No. 415,217. 8 Claims. (Cl. 164—48.)



1. A pattern grading and cutting machine comprising the combination with a holder for a model pattern and for a sheet of stock, a guide adapted to coact with such model, elements associated with the guide and projecting at each side of the engaging element thereof for resisting escape of the model therefrom, and a cutting apparatus for outlining a reproduced pattern in such sheet; said holder on the one hand, and said guide and cutting apparatus on the other hand, being mounted for relative movement whereby to effect relative traverse between the model and guide, and corresponding shifting of the point of action of the cutting apparatus on the sheet of stock.

1,383,024. RERUN-STILL. DANIEL PYZEL, Oakland, Calif. Filed Sept. 4, 1919. Serial No. 321,730. 3 Claims. (Cl. 196—13.)



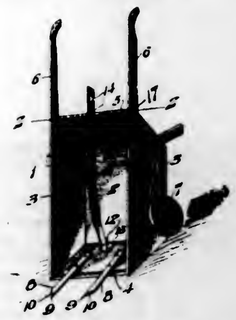
1. A re-run still comprising a cylindrical shell having closed ends, two heads intermediate of said ends forming, with that portion of the shell between said heads, a distilling chamber, a series of tubes tightly secured in said heads and extending through said distilling chamber in the lower part thereof, means for delivering hot residuum to the space outside said distilling chamber and inside one end of said shell so that said residuum can flow through said tubes, means for withdrawing said residuum from the space outside the opposite end of said distilling chamber and inside said shell, means for injecting steam into the bottom of said distilling chamber, means for delivering the fluid to be distilled to the inlet end of said distilling chamber, a series of partitions extending across said distilling chamber above said tubes, means for withdrawing vapors from each of the progressive spaces between said partitions, and means for withdrawing unvaporized liquid from the outlet end of said distilling chamber.

1,383,025. METAL CLOTHES-HANGER. RALPH VAIL REYNOLDS, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,521. 1 Claim. (Cl. 45—13.)



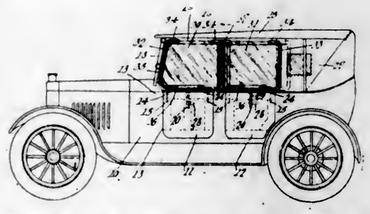
A sheet of material for forming hooks divided by broken lines into strips, each strip including two rows of hooks, each strip divided by curved lines into two rows of hooks, the said broken lines forming trapezoidal projections on one strip separated by trapezoidal recesses which constitute like trapezoidal projections on the neighboring strip, the said curved lines forming hook-shaped projections on one row of hooks separated by recesses which constitute like hook-shaped projections on the neighboring row of hooks, each of said hook-shaped projections being enlarged at the end and being constricted between the end and the stem whereby an enlargement of each recess is made which constitutes a like enlargement at the end of each hook of the neighboring row of hooks, said sheet of material being perforated, certain of said perforations being located one in each of said trapezoidal projections and others located one in each of said enlargements, whereby the sheet of material is divided into blanks without waste and the blanks are suitable for the formation of rows of hooks.

1,383,026. WHEELBARROW. WILBERT RICHMAN, Bridgeton, N. J. Filed Sept. 20, 1920. Serial No. 411,469. 3 Claims. (Cl. 280—51.)



1. In a vehicle of the order stated, a body, a load engaging dog, and means for mounting the latter on the former, said dog consisting of a narrow bar twisted transversely in its length and having its front portion extending angularly downward presenting its broad side to a load.

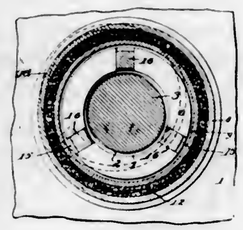
1,383,027. SIDE WINDOW FOR AUTOMOBILES. CHRISTOPHER S. ROBERTSON, Jacksonville, Fla. Filed Feb. 2, 1920. Serial No. 355,720. 3 Claims. (Cl. 296—45.)



2. In side wind and rain shields for open body type of automobiles, having a top and side curtain parts at the

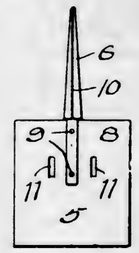
rear portions thereof together with fenders depending from the sides of the top; of sockets mounted in the doors of the body, open supporting members mounted on the top edges of the doors and having shank portions engaged in the sockets for pivotal adjustment laterally and vertical adjustment, means engaged through the doors and sockets and engaged with the shank portions to hold the supporting members in adjusted relation, and means to close the space between the top and body, and comprising shields mounted in the supporting members.

1,383,028. PACKING-RING FOR ROTARY SHAFTS. WALTER G. E. ROLAFF, Belleville, Ill. Filed Dec. 8, 1919. Serial No. 343,208. 4 Claims. (Cl. 286—1.)



1. In combination with an apertured member penetrated by a revolving shaft, a collar fixedly secured on said shaft, a packing ring surrounding said aperture and bearing against the adjacent surface of said member, and movable members interposed between said packing ring and collar and adapted to be thrown outward by centrifugal force, to press the packing ring into engagement with said member.

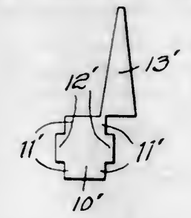
1,383,029. COMBINATION BACKING AND POST FOR ARTIFICIAL ANTERIOR TEETH. HUGO SCHICK, St. Louis, Mo. Filed July 21, 1919. Serial No. 312,122. 3 Claims. (Cl. 32—9.)



2. An artificial tooth, comprising a porcelain front having a plurality of anchor pins extending from the rear face thereof, a backing having an opening to receive each anchor pin to be clenched upon the back face of the backing, a root-post fixed to the back of the backing and extending beyond the upper edge of the backing-plate, and a covering for said root-post.

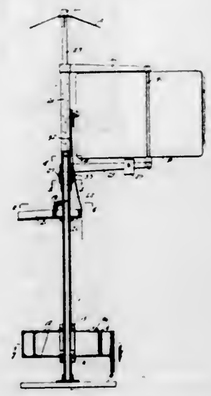
1,383,030. COMBINATION BACKING AND POST FOR ARTIFICIAL ANTERIOR TEETH. HUGO SCHICK, St. Louis, Mo. Filed July 21, 1919. Serial No. 312,192. 5 Claims. (Cl. 32—9.)

5. An artificial tooth, comprising a porcelain facing having a recessed socket extending from the cervix toward the biting edge thereof, a backing-plate, an inlay fixed to the facing engaging in the recessed socket, and a root-



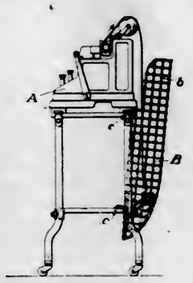
post integral with the inlay extending upwardly above the upper edge of the backing-plate.

1,383,031. WATER-ELEVATING UNIT. EDWARD E. SCHUMAKER, Hilbert, Wis. Filed Mar. 9, 1920. Serial No. 364,463. 1 Claim. (Cl. 103—73.)



A water elevating unit including a tube, a pump attached to said tube and means for oscillating said pump, said pump including a pair of spaced disks, annular walls extending between said disks and spaced from one another, a partition extending between said annular walls and valves associated with openings formed in said annular walls adjacent said partition.

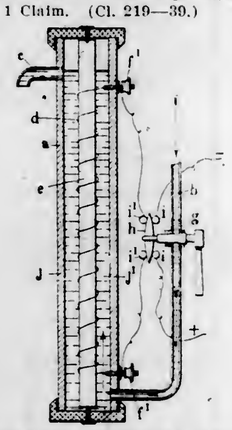
1,383,032. RECEPTACLE FOR ADDING-MACHINES, TYPEWRITERS, DESKS, AND THE LIKE. WILLIAM F. SCRANTON, Washington, D. C. Filed June 27, 1918. Serial No. 242,268. 1 Claim. (Cl. 220—18.)



A portable open topped basket for waste paper and the like, comprising a body portion having a tapered bottom

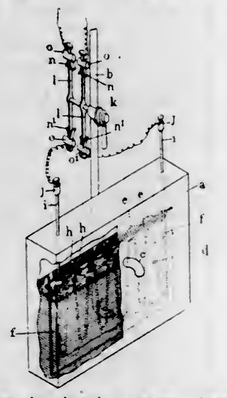
and provided with upstanding walls on three sides thereof, the entire fourth side being of a lesser height than the other sides, said basket being adapted to be placed adjacent a desk or the like with the low side next to said desk or the like.

1,383,033. ELECTRIC WATER-HEATER. LOUIS ELIE SEIMBILLE, Paris, France. Filed Sept. 24, 1918. Serial No. 255,519. 1 Claim. (Cl. 219—39.)



An electric water heater comprising a narrow elongated casing, a water supply pipe opening into the bottom part of said casing, a valve in said pipe, a discharge spout of larger cross-section than said supply pipe connected to the top part of said casing, and means controlled by said valve for heating the water in said casing to a temperature inversely proportional to the rate of flow of the water, said means including a switch and a coiled resistance element in immediate contact with the water in said casing and wholly immersed therein.

1,383,034. ELECTRIC WATER-HEATER. LOUIS ELIE SEIMBILLE, Paris, France. Filed Sept. 24, 1918. Serial No. 255,520. 3 Claims. (Cl. 219—39.)



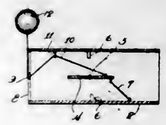
1. An apparatus for heating water electrically and almost instantaneously, comprising in combination, a casing of small capacity, an inlet tube near the lower part of said casing, a discharge tube near the upper part of the said casing and having a cross-section greater than that of the water inlet tube, a heating element in the said casing comprising an electric resistance and a thin layer of insulating matter forming an envelop surrounding the said resistance, and metallic sheets engaging the sides of the said envelop and allowing circulation of water in contact therewith.

1,383,035. BEARING-SHIM. CHARLES REUBEN SHORT, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 24, 1919. Serial No. 292,324. 9 Claims. (Cl. 64—10.)



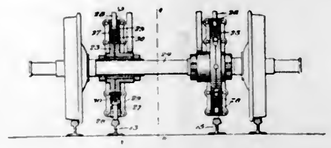
5. A combined shim and bearing comprising a spacing portion made up of a plurality of superposed hard and non-yieldable metallic plates, and a facing portion made from a bearing metal and adapted to form a part of a bearing, said parts being permanently joined together, the unitary member thus formed having a hole to receive a securing bolt.

1,383,036. SWIMMING APPLIANCE. LUTHER P. SIFFORD, Barstow, Calif. Filed Feb. 8, 1921. Serial No. 443,345. 3 Claims. (Cl. 128—140.)



1. A device of the character described comprising parallel tubular members, valves arranged within the members, a float member at the end of each tubular member, means connecting the float member with the valve member within the tube, and an elastic member connected to the valve member and tending to normally hold the valve member in open position.

1,383,037. ELECTRIC CONTACT DEVICE. WILLIAM E. STUDSTILL, Murphy, N. C. Filed July 13, 1920. Serial No. 396,035. 1 Claim. (Cl. 191—45.)

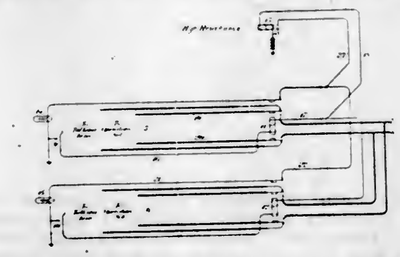


An electric contact device of the character described comprising a wheel of two detachably connected sections, the confronting faces of said sections being recessed, said recesses unitedly defining a circumferential series of pockets opening at the periphery of the wheel, a sliding contact operating within each pocket, and a spring arranged within each pocket to normally hold the contacts projected beyond the periphery of the wheel for the purpose specified.

1,383,038. TELEPHONE CALL-WIRE CIRCUITS. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 10, 1919. Serial No. 303,054. 1 Claim. (Cl. 179—41.)

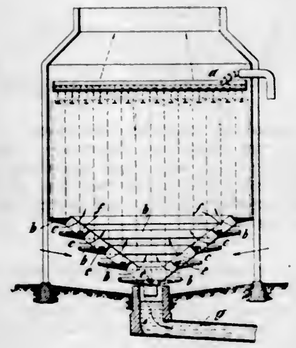
In a telephone system comprising a plurality of switchboard positions, a call order wire associated with said positions, switching means at each of said positions, signaling means at each position, a relay common to all of said positions and in series with said switching means, means controlled by the switching means at each position for completing a circuit for the relay at said position

and said common relay, means controlled by said position relay for connecting said order wire to said position, means controlled by said position relay and said common relay for preventing the simultaneous operation of any



of the other of said relays, and means controlled by said position relay and common relay for operating the signaling means at only the positions which are not connected with said call circuit.

1,383,039. DEVICE FOR RECOOLING THE WATER IN COOLING-TOWERS. FRITZ UHDE, Breslau, Germany. Filed June 15, 1914, Serial No. 845,146. Renewed Aug. 24, 1920. Serial No. 405,755. 9 Claims. (Cl. 261—111.)



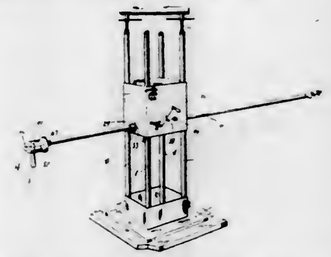
3. A chimney water cooling tower having its lower end closed solely by a plurality of water-catching trays, these trays extending entirely around the bottom and being arranged one above the other and having their inner edges overlapping the tray next below, each tray being provided with a discharge opening arranged below its upper edge, and a discharge channel common to all these discharge openings, for the purposes set forth.

1,383,040. ELECTRICAL CONNECTOR. LEWIS VAN ATTEN, Ossining, N. Y. Filed June 18, 1920. Serial No. 389,911. 3 Claims. (Cl. 287—78.)



1. An electrical connector, comprising a socket member, an expansible stud member adapted to engage in the socket member, one of said members having external screw threads, and a nut having a rotary mounting on the other of said members and adapted to engage said screw threads whereby said members are coupled together.

1,383,041. MINING-DRILL DEVICE. LOUIS FRANCOIS VERDY, Pleasantville, Ind. Filed May 24, 1920. Serial No. 383,716. 1 Claim. (Cl. 255—47.)



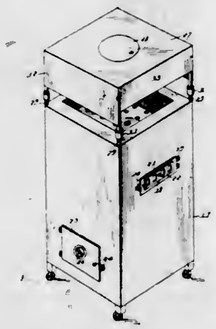
In a power driven drilling machine having a frame, a casing attached to said frame, and a stationary motor in said casing, the combination of a longitudinally disposed square drill rod passing through said casing having a business head and a tail end, a flanged bearing having its flanged end secured inwardly at the vertical center line of the front portion of said casing, a sleeve rotatably mounted in said bearing and terminating at its inner end in a coupling member having an annular flange of larger diameter than the coupling member, a square shaped aperture in said sleeve to receive said drill rod, a counter coupling member provided at the inner face of said first coupling member, means for rotating said counter coupling member, a transversely disposed lever secured to, and having its fulcrum at, one side of said casing, a generally rectangular aperture provided at substantially the center of said lever and having set screws provided at its sides engaging the flange of said first coupling member, a helical tension spring secured at one end to the front of said casing and near the free end to said lever facilitating the said coupling members being normally engaged, a hook adapted to engage the free end of said lever in a position when said coupling members are disengaged, a bearing provided at the rear of said casing, a long sleeve rotatably mounted in said bearing having its open end protruding outwardly from the rear of said casing and its other end secured to said first coupling member, means at the free end of said sleeve adapted to receive auxiliary tools, when desired, a pusher provided at the feeding end of said drill rod, means for rotatably securing said drill rod in said pusher, and means for feeding said pusher.

1,383,042. MAGAZINE FUSE-PLUG. HARRY H. VINCENT and JOHN F. SKINNER, Detroit, Mich. Filed Dec. 6, 1919. Serial No. 343,027. 2 Claims. (Cl. 200—125.)



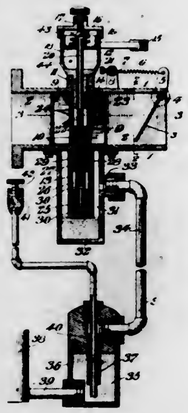
1. A magazine fuse plug, comprising an insulating core, a pair of terminals for the plug mounted upon said core, a plurality of fuses connected to one of said terminals, a circular series of terminal contacts for said fuses mounted upon an end face of said core, an insulating cap rotatively engaging said end fuse of the core and formed with a radially extended recess adjacent said face, and a switch arm disposed within said recess, electrically connected to the other terminal of the plug and rotatively actuable by the plug to selectively engage said terminal contacts, said arm having a struck-out spring tongue stressed by said cap to press the arm against said end face of the core.

1,383,043. COMBINATION FURNACE AND COOK-STOVE. BERTHA H. WEAVER, Texarkana, Tex. Filed Feb. 12, 1920. Serial No. 358,308. 1 Claim. (Cl. 126—4.)



A heating apparatus having a main member provided at its top with an open topped fire box, a supplemental member removably seated upon the main member, said supplemental member being provided with depending legs or supports and the main member being provided with upstanding studs upon which said legs or supports are seated, sleeve couplings detachably engaging said studs and legs or supports to secure the supplemental member in spanning relation with the open top of the fire box, and said supplemental member having a top plate provided with a removable lid, and depending end and side aprons terminating short of the plane of the top of the main member.

1,383,044. CARBURETER FOR INTERNAL-COMBUSTION ENGINES. ALFRED WEILAND, Philadelphia, Pa. Filed June 5, 1917. Serial No. 172,847. 5 Claims. (Cl. 261—44.)



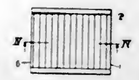
1. In a device of the character stated, a casing forming a carbureting chamber, having communication with the atmosphere and with the intake of a motor of the explosive type, a reservoir for liquid fuel, a movable fuel conducting means forming a communication between said reservoir and said carbureting chamber and means for submerging the inlet of said fuel conducting means in the body of fuel in said reservoir under conditions producing a decreased negative pressure in the motor intake.

1,383,045. METHOD OF MAKING CUTTERS FOR PENCIL-SHARPENERS. ALLEN PARKER WILSON, Waltham, Mass., assignor to Boston Pencil Pointer Company, Waltham, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1919. Serial No. 291,521. 4 Claims. (Cl. 76—101.)



1. The method of producing sheet metal cutters for pencil sharpeners comprising distorting a sheet metal blank to produce one or more pencil sharpening ribs curving the blank into a tube having the rib or ribs arranged exteriorly thereon, and uniting the meeting edges of the blank.

1,383,046. METHOD OF MAKING CUTTERS FOR PENCIL-SHARPENERS. ALLEN PARKER WILSON, Waltham, Mass., assignor to Boston Pencil Pointer Company, Waltham, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1919. Serial No. 291,522. 4 Claims. (Cl. 76—101.)



1. The method of producing sheet metal cutters for pencil sharpeners comprising distorting a sheet metal blank to produce one or more pencil sharpening ribs, curving the blank into a tube having the rib or ribs arranged straight and exteriorly thereon, and uniting the meeting edges of the blank.

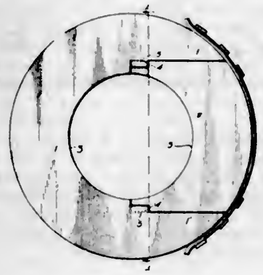
1,383,047. METHOD OF MAKING CUTTERS FOR PENCIL-SHARPENERS. ALLEN P. WILSON, Waltham, Mass., assignor to Boston Pencil Pointer Company, Waltham, Mass., a Corporation of Massachusetts. Filed Apr. 21, 1919. Serial No. 291,523. 3 Claims. (Cl. 76—101.)



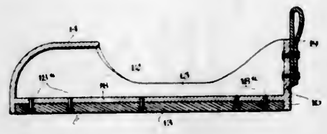
1. The method of producing rotatable sheet metal cutters for pencil sharpeners comprising striking up a sheet metal blank to produce one or more pencil sharpening blades, curving the blank into a tube having the blade or blades arranged exteriorly thereon, uniting the meeting edges of the blank, and providing the cutter with a driving element.

1,383,048. HUB-LINER. JOHN WILLIAM WOLFENDEN, Nashville, Tenn. Filed Nov. 13, 1920. Serial No. 423,923. 2 Claims. (Cl. 64—25.)

2. A device of the character stated comprising, a pair of interfitting ring sections having opposed semi-circular recesses therein, one of said sections including a pair of arms having their inner faces parallel, the other section fitting between said arms, bendable cleats on the outside edges of the arms, bendable cleats on the periphery of the last mentioned ring section, an arcuate length of wire having its intermediate portion located against the periphery of the last mentioned section, and its ends located against the outside edges of the arms, said wire being clamped in place by all of said cleats.
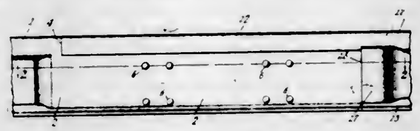


1,383,049. DIVER'S SANDAL. WILLIAM C. ZESS, Bethesda, Md. Filed Oct. 7, 1920. Serial No. 415,244. 4 Claims. (Cl. 61—70.)



1. A diver's sandal comprising a body or upper having a base and a depending rib or flange around the edge of the base, and a lead sole secured to the base within the rib or flange.

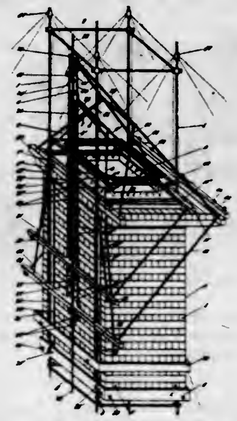
1,383,050. RAIL-JOINT. WILLIAM ZITELLA, Adamston, W. Va. Filed May 3, 1921. Serial No. 466,436. 3 Claims. (Cl. 238—235.)



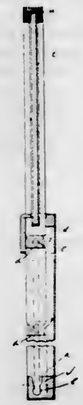
1. In a rail joint the combination with a rail having a longitudinally slotted web, the head of the rail being removed above said slotted web, of a block secured within the slot in the web, resiliently held dogs upon the block, a rail having a web insertible downwardly into said slot, said web being provided with a space for the reception of the block, there being means upon the walls of said space for engagement by the dogs.

1,383,051. APPARATUS FOR LIFTING AND FLOATING SUNKEN VESSELS OR THE LIKE. KANZABURO AKAKI, Higashiku, Osaka, and MASANOBU ITOI, Yodobashicho, Tokyo, Japan. Filed Oct. 1, 1917. Serial No. 194,198. 6 Claims. (Cl. 114—44.)

1. Apparatus for lifting sunken vessels and the like comprising piles made of buoyant material, a lifting device mounted on each pile, a deck structure interposed between each lifting device and its pile, connections between the lifting device and the vessel including a lifting rod, and connections between the deck structure and the lifting rod, the latter connections being inoperative while the lifting device is in actuation to raise the vessel and operative to sustain the vessel when the lifting device is not acting to raise the latter.



1,383,052. WINDOW-WELL CONSTRUCTION. JOHN T. ALLMAND, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Aug. 27, 1920. Serial No. 406,263. 12 Claims. (Cl. 20—52.1.)

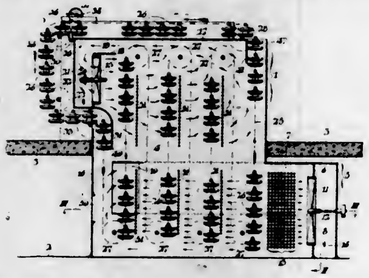


1. In a window construction, a window post, a guide supported by the upper portion of the window post, a pair of rollers supported by the lower portion of the window post, and a buffer block located between the rollers and at the edge of the window that runs in the guide and between the rollers on the lower portion of the post.

1,383,053. DRYING-MACHINE. THOMAS ALLSOP and WALTER W. SIBSON, Philadelphia, Pa., assignors to the Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 30, 1919. Serial No. 293,877. Renewed Oct. 26, 1920. Serial No. 419,734. 12 Claims. (Cl. 34—12.)

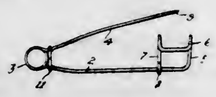
3. A drying machine consisting of a drying compartment; a conveyer traveling a circuitous path within the drying compartment; means for circulating the air in a portion of the compartment over a course in one direction;

and a separate means for circulating the air in another portion of the compartment over a course in a direction differing from that of the first mentioned circulatory



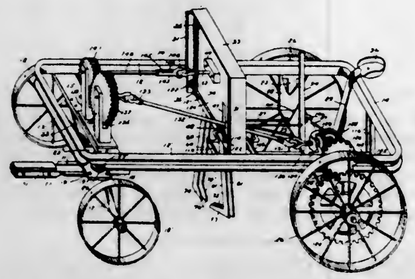
course, whereby the articles carried by the conveyer are subjected to currents of the drying medium from various angles of impingement.

1,383,054. SAFETY-PIN. JOHN H. ANDERSON, Havana, N. D. Filed May 31, 1918. Serial No. 237,594. 1 Claim. (Cl. 24—159.)



A safety pin comprising a rear bar having a loop formed therein at one end, and a forward bar forming a continuation of said loop and terminating in a pin point, the opposite end of said rear bar having a lateral extension and a loop formed thereon and a cross bar for supporting the pin point when inserted into said loop, and said rear and forward bars having shoulders formed therein and an open link mounted on said bars between said shoulders and said spring loop and said link allowing the free movement of said forward bar while said link is in its normal guiding position, said shoulders holding said link from sliding on the pin when it is closed and said link preventing the garment from entering the adjacent loop in the pin.

1,383,055. COTTON-CHOPPER. ERNST J. ANTONI, Whitewright, Tex. Filed Aug. 28, 1920. Serial No. 406,674. 9 Claims. (Cl. 97—45.)



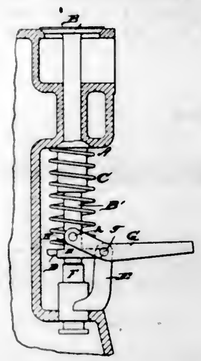
6. The combination in plant choppers, with suitable suspensory devices, and upright adjusting bars having lateral extensions at their lower end pivotally connected with said suspensory devices, and with vertical bars pivoted to said lateral extensions, and plant choppers connected with said latter bars, of toggle levers connecting the adjusting bars with the bars supporting the plant choppers.

1,383,056. RAILWAY-TIE. HENRY H. ASHLOCK, San Diego, Calif. Filed Sept. 7, 1920. Serial No. 408,680. 3 Claims. (Cl. 238—344.)



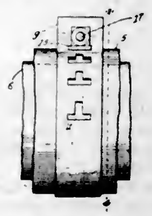
1. A railway tie, including a T member provided with an undercut notch therein adapted to fit the one side of the flange of a T rail and its other side tapering upwardly, and a plate with a similar notch pivotally mounted on said T member and adapted to engage the rail flange when turned to a certain position and to be released therefrom when turned in the opposite direction.

1,383,057. DEVICE FOR REMOVING VALVES FROM INTERNAL-COMBUSTION ENGINES. ERNEST EDWARD ASHMUN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 8, 1917. Serial No. 147,278. 1 Claim. (Cl. 29—86.3.)



A valve spring compressor comprising a supporting member having separated arms, a rocking member having side pieces pivotally connected between their ends to said arms, said rocking member comprising a handle end and a lever end and the lever end being offset from the longitudinal axis of the handle end, said supporting member being adapted to fold within the handle end of the rocking member, and a valve spring support pivoted to the lever end of the rocking member, the depth of said support from its pivots to its bottom being less than the offset of the lever end of the rocking member.

1,383,058. HOSE-CLAMP. FRANK H. ATKIN, San Francisco, Calif. Filed Oct. 16, 1920. Serial No. 417,283. 2 Claims. (Cl. 24—19.)

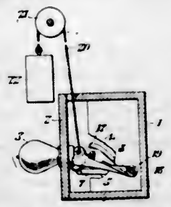


1. A hose clamp comprising a clamping band having formed therein T shaped apertures, one of the end portions of said clamping band being bent at its extremity to form an angular recessed extension, the other of the end portions adapted to rest beneath the first mentioned end portion, a looped portion formed in the body of the band and provided with recesses, a bolt provided with a nut adapted to penetrate the looped portion and angular extension, and a clip inserted between said looped portion and extension of the body portion, both the said clip and bolt adapted to be received within the T shaped slot of the clamping band, the lip of the clip being adapted to prevent displacement of the nut.

1,383,059. PROCESS OF PRODUCING FORMALDEHYDE. GEORGE C. BAILEY, Woodcliff-on-Hudson, and AUGUSTUS E. CRAVER, Cliffside, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed May 26, 1920. Serial No. 384,265. 12 Claims. (Cl. 23—24.)

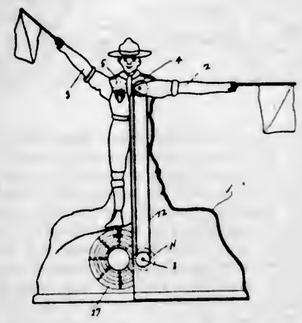
1. The process of producing formaldehyde which comprises passing methyl alcohol in the vapor phase and an oxygen containing gas into contact with an oxid of vanadium as a catalyst at a temperature between 225° and 400° C.

1,383,060. THERMAL CIRCUIT-CONTROLLER. WILLIAM W. BALDWIN, Deskins, Va. Filed Jan. 12, 1918. Serial No. 211,642. 1 Claim. (Cl. 200—142.)



A device of the class described comprising a pivoted U-shaped yoke having one end offset to define a striker arm, a pair of spring contacts disposed in the path of travel of said striker arm, a pivoted lever, a spring engaging said lever and normally urging the same toward said yoke, and a combustible member connected with said lever and holding the same under tension against the resistance of said spring, whereby upon combustion of said combustible member said spring pressed arm will be released to engage and move said yoke whereby the striker arm thereof will move said contacts into engagement.

1,383,061. TOY. THOMAS HENRY BAMFORTH, North Vancouver, British Columbia, Canada. Filed Mar. 11, 1920. Serial No. 365,056. 4 Claims. (Cl. 116—132.)



1. A toy comprising a figure in the form of a signaler having arms pivotally mounted, sprockets for each arm secured thereto centrally of the respective pivots, a manually rotatable shaft for each arm, a sprocket secured to each shaft, a flexible connection between each shaft sprocket and each arm sprocket, a stationary locking disk for each arm, provided with as many notches as there are signaling positions of the arm, said notches being spaced to correspond with the arm travel between the signaling positions, and a lock carried by the shaft adapted to coact with said notches to lock the shaft against inadvertent rotation on the completion of a signaling movement, said lock being adapted to unlock by the actuation of the shaft.

1,383,062. WAIST-LINE GARMENT-SUPPORT. CLARENCE BASCOME, Dayton, Ohio. Filed Feb. 7, 1919. Serial No. 275,619. 2 Claims. (Cl. 241—9.)



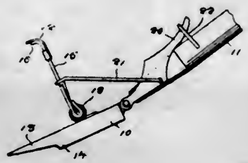
1. A garment support comprising a waist encircling member, bands embracing said member and formed with rectangular eyes therein, and clasps projecting through the eyes and formed with tongues lying between the bands and the outer face of the waist encircling member the tongues embracing the side edges of the bands.

1,383,063. PIN-TICKET. JOSEPH R. BAYER, New York, N. Y. Filed June 25, 1920. Serial No. 391,572. 1 Claim. (Cl. 40—25.)



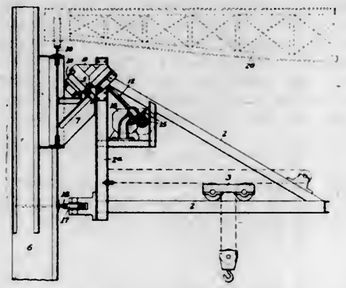
A pin ticket, comprising a card, a fastener secured to the card and comprising a single piece of wire having both ends of the wire projected through the card and bent in the same direction and located substantially in alinement and against the rear face of the card, one extreme end of the wire bent at a substantial right angle to the card and forming a spur having a sharp outer end, and the other end of said wire bent forming a tongue located normally parallel to the card and extending across the outer end of the spur.

1,383,064. TOOL. JAMES R. BENTON, Oswego, N. Y. Filed May 25, 1920. Serial No. 384,148. 6 Claims. (Cl. 254—132.)



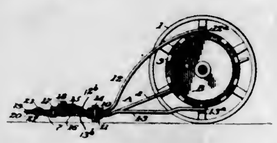
1. A lawn tool comprising a spade, and a spring actuated cutting element pivotally mounted upon one side of the spade and adapted to coöperate with the latter as and for the purpose specified.

1,383,065. WALL-CRANE. FLORENCE C. BIGGERT, Jr., Pittsburgh, Pa. Filed Apr. 7, 1921. Serial No. 459,260. 9 Claims. (Cl. 104—119.)



1. A wall crane having a movable carriage mounted thereon, and having its load supporting and driving means carried at the upper inner portion of the crane structure, and having driving means including driving wheels arranged to cause the load, and consequently the traction, on said wheels to increase as the crane carriage is moved outwardly from the support, substantially as described.

1,383,066. MOWER. JOHN HENRY BLAIR, San Francisco, Calif. Filed Apr. 18, 1918. Serial No. 229,348. 1 Claim. (Cl. 56—259.)



In a mower, the combination with an axle and a pair of supporting wheels, of a drum secured to said axle between the wheels and having a zig-zag guide groove in its periphery, a frame comprising side bars journaled upon the axle, an end bar connecting the forward ends of said side bars and upper and lower cross-bars connecting said side bars adjacent to and at the rear of said end bar, a pair of levers mounted between said cross-bars and pivoted centrally thereof, said levers having relatively long arms engaging said guide groove at the top and bottom of the drum at diametrically opposite points and shorter arms extending forwardly from the pivotal point of the levers, a pair of knife bars superposed one upon the other movable transversely of the frame over said end bar and supported thereby, said knife bars being pivotally connected to the shorter arms of the levers, and serrated blades secured to said knife bars and in sliding contact with one another.

1,383,067. PNEUMATIC HEEL. EMIL BORMAN, Chicago, Ill. Filed Sept. 15, 1920. Serial No. 410,525. 1 Claim. (Cl. 36—35.)

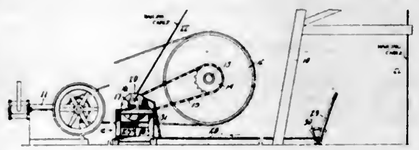


As an article of manufacture, a cushion heel for shoes consisting of a rubber body having a hermetically-sealed cavity for air formed by integral and continuous top and bottom walls and up-standing marginal walls of said body, and provided with a curved protuberance, or boss, on its under side of approximately the same shape and area as said cavity, the bottom wall of said cavity being sufficiently yielding to permit loads and shocks to be resisted mainly by the air confined within said cavity.

1,383,068. WATERPROOFING COMPOSITION. THEODORE BOSSHARD, Brooklyn, N. Y. Filed Nov. 13, 1920. Serial No. 423,874. 1 Claim. (Cl. 134—16.)

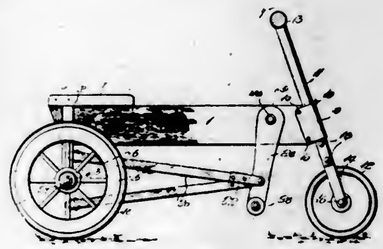
A water proofing composition, including gelatin, water and glycerin in the proportions of one-half pound gelatin, eighteen ounces of water and nine ounces of glycerin.

1,383,069. BAILING APPARATUS. ALLEN B. BOYER and ORA DAVISSON, Trees, La. Filed Apr. 24, 1920. Serial No. 376,363. 1 Claim. (Cl. 254—187.)



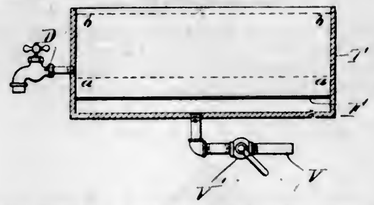
The combination with a well rig including a derrick and a prime mover, of a bailing apparatus comprising a shaft constantly driven from the prime mover, a reel loose on the shaft, a clutch for connecting the reel to the shaft, a lever for operating the clutch, a brake to hold the wheel against rotation, a lever for operating the brake, a manually operated lever at the derrick, a rod extending therefrom attached to the brake lever, a bell crank lever having one arm attached to the rod and the other arm attached to the clutch lever, substantially as set forth.

1,383,070. CHILD'S PEDALING-CAR. ROMAN B. BUKOLT, Stevens Point, Wis. Filed May 15, 1919. Serial No. 297,427. 2 Claims. (Cl. 208—30.)



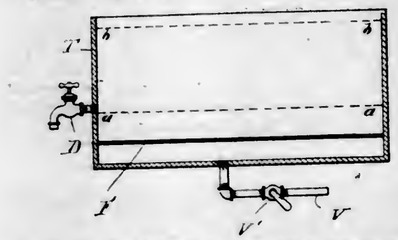
1. A child's car comprising rear wheels and a cranked axle therefor, inverted L-shaped bolster brackets having bearings on their lower ends mounted on said axle between the axle cranks and the wheels, the upper ends of said brackets extending inwardly toward each other above the cranks and terminating in spaced parallel relation, a flat longitudinal beam standing on edge and having its rear end received between said spaced bracket ends, dowels passing through said beam and into said bracket ends, a seat-board secured on said brackets and the rear end of said beam and serving to tie said beam and brackets together, and steering and supporting means for the front end of said beam.

1,383,071. METHOD OF PREPARING SULFUR-BLACK AND THE PRODUCT THEREOF. ALBERT C. BURRAGE, Jr., Hamilton, and GUIDO MEISEL, Burrage, Mass., assignors to Atlantic Dyestuff Company, Burrage, Mass., a Corporation of Massachusetts. Filed Aug. 17, 1920. Serial No. 404,191. 9 Claims. (Cl. 8—6.)



1. The method of preparing sulfur-black, which comprises filtration of water of suspension from the solid color, followed by partial evaporation of the water remaining adherent to the color after filtration, until the color assumes a moist powdery consistency.

1,383,072. SULFUR-BLACK. ALBERT C. BURRAGE, Jr., Hamilton, and GUIDO MEISEL, Burrage, Mass., assignors to Atlantic Dyestuff Company, Burrage, Mass., a Corporation of Massachusetts. Original application filed Aug. 17, 1920, Serial No. 404,191. Divided and this application filed Dec. 4, 1920. Serial No. 428,275. 3 Claims. (Cl. 8—6.)

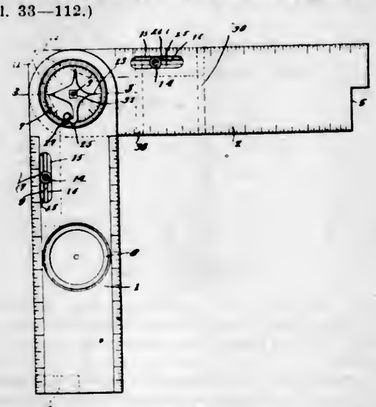


1. Sulfur-black associated with water and a solid soluble comminuted modifier uniformly distributed through it.

2. Sulfur-black containing water distributed through the solid color in quantity consistent with uniform mixture of a solid soluble comminuted modifier with the color.

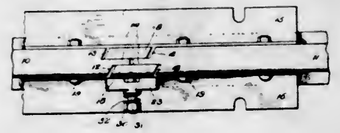
3. Sulfur-black associated with water and solid comminuted salt uniformly distributed through it.

1,383,073. SQUARE. ALESSANDRO CAPITANO, Pittston, Pa. Filed June 5, 1920. Serial No. 386,880. 6 Claims. (Cl. 33—112.)



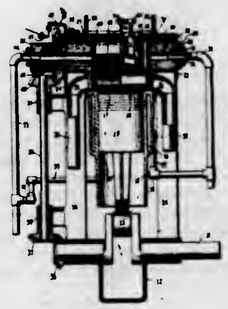
1. A combination square having a shank and a blade, a pair of dials one near the middle of the shank, the other near one end of the same, an indicator, means for releasably securing the same rigidly to the blade, and arranged to coöperate with one of the dials, means for locking the indicator to the shank and thereby securing the shank and blade in their adjusted positions.

1,383,074. RAIL JOINT AND BOND. CHARLES L. CARLSSON, Ivoryton, Conn. Filed Aug. 13, 1919. Serial No. 317,261. 1 Claim. (Cl. 238—222.)



In a rail joint, rails each having a tread portion provided at one side with a notch and at the opposite side with a longer notch, the notches having correspondingly beveled end walls and the long notch of each rail facing the short notch of the other rail to define recesses at opposite sides of the rails, and fish plates connecting the rails and having base flanges engaging therebeneath, the fish plates having vertical flanges confronting the rail webs in spaced relation thereto and being formed medially of the plates with upstanding tread blocks fitting in said recesses providing a continuation of the rail treads and having beveled ends confronting the beveled end walls of the recesses in spaced parallel relation.

1,383,075. INTERNAL-COMBUSTION ENGINE. ROBERT G. CLARK, Brooklyn, N. Y. Filed July 6, 1916. Serial No. 107,756. 12 Claims. (Cl. 123—42.)

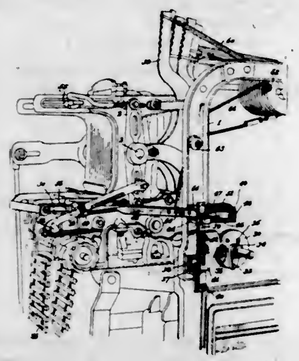


1. In an internal combustion engine, the combination of a crank shaft, a reciprocable piston connected thereto, a piston cylinder, and means to support said cylinder to permit said cylinder to oscillate to assume a position in axial alinement with the piston in all positions of the latter during the reciprocation thereof, to move the cylinder in a direction longitudinally of the piston during the movement of the piston to vary the space between the heads of the piston and cylinder for the purpose specified.

1,383,076. DOBBY-LOOM. F GORDON COBB, Greenville, S. C. Filed Aug. 21, 1919. Serial No. 318,927. 8 Claims. (Cl. 139—28.)

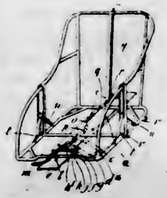
5. In a loom, a rocker arm, a pattern-chain mechanism, an actuator-arm operated by said rocker-arm for actuating said pattern-chain mechanism, a lifting means for displac-

ing the actuator-arm from chain-operating position, a supporting means for said actuator-arm to retain it from



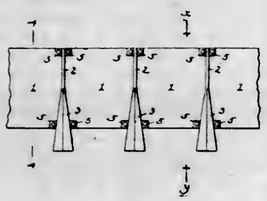
chain-operating position, a releasing means for said supporting means, and a timing mechanism including a worm-gear drive for operating said releasing means.

1,383,077. SLIDING SEAT FOR MOTOR-CARS AND THE LIKE. ALBERT E. COLE, London, England. Filed Nov. 13, 1919. Serial No. 337,818. 2 Claims. (Cl. 155—14.)



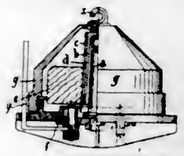
1. An adjustable seat for vehicles, comprising a seat body having a front portion pivotally connected thereto, a plate attached to the seat body, a runway fixed to the vehicle body on which said plate is slidably mounted, a locking device including a sectional lever mounted on said plate, one of the sections of said lever extending forward over the front portion of the seat, and means for pivotally connecting said sections of the lever, whereby the front portion of the seat and said extended section may be moved to folded position when the seat is unoccupied.

1,383,078. TRACTION-WHEEL. JAMES W. COTTRELL, Hammonton, N. J. Filed Mar. 29, 1921. Serial No. 456,712. 8 Claims. (Cl. 301—43.)



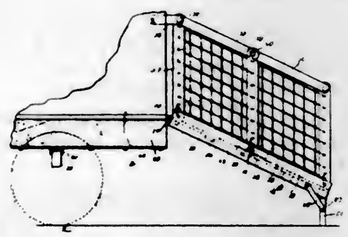
4. A traction wheel, the tread of which is equipped with transverse cleats each comprising a section which is relatively narrow and substantially parallel sided and a section which is relatively wider and wedge-shaped in cross section, said latter section being both progressively blunter and of progressively less projection from its point of junction with said former section to its end.

1,383,079. CONTACT FOR THIEF-ALARMS OR OTHER ELECTRICALLY-OPERATED DEVICES. FREDERICK CRESSALL, Newport, Isle-of-Wight. Filed Oct. 15, 1920. Serial No. 417,263. 8 Claims. (Cl. 200—166.)



1. An apparatus comprising a closed hollow body having a hook at its upper end; an upright standard fixed in the lower part of said body; a conical tubular body movably disposed over said standard and provided with a series of longitudinal grooves in its outer face; an annular weight secured on said tubular body near the lower end thereof; contact wires mounted in said grooves and connected to said hook and projecting at the lower end of said tubular body; an insulated annular contact body mounted in said hollow body, surrounding and normally out of contact with said contact wires; and a conductor electrically connected to said annular contact body.

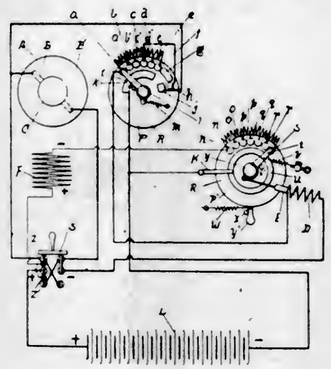
1,383,080. HOG-CHUTE. FRED J. DENO and JOSEPH MARTIN, Fowler, Ind. Filed Apr. 8, 1920. Serial No. 372,160. 10 Claims. (Cl. 214—65.)



1. In a hog chute, the combination of side beams, hooks at the front ends of said side beams for engaging with supporting members of a wagon body, a fixed floor section between the front ends of said beams and a floor section between the inner ends of said beams hinged to the fixed floor section and adapted to be swung against the top thereof.

1,383,081. METHOD OF CONTROL FOR ELECTRIC MOTORS. HARRY EUGENE DEY, Jersey City, N. J. Filed Aug. 13, 1919. Serial No. 317,141. 3 Claims. (Cl. 172—179.)

1. A control for electric motors which comprises a source of electrical supply; an electric motor of the shunt type having a comparatively low resistance field winding; a rheostat for the field circuit having movable contact arm and baseplate elements; a spring attached to said contact arm and anchored to a fixed object, to insert resistance; an armature circuit; a solenoid mounted in a fixed po-



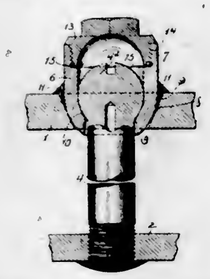
sition, connected in series with the armature circuit, and pulling in opposition to said spring, and means of manual control of the two elements.

1,383,082. MEANS FOR DISPLAYING ILLUMINATED WORDS OR CHARACTERS. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Oct. 10, 1917. Serial No. 195,818. 4 Claims. (Cl. 40—134.)



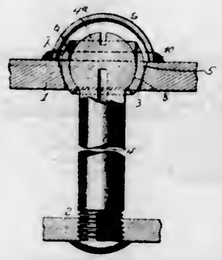
1. Means for displaying illuminated words or characters comprising a member provided with a continuous layer of material which will be capable of being rendered luminous by artificial light, and means whereby predetermined portions only of said continuous layer may be activated to form illuminated words or characters.

1,383,083. STAYBOLT STRUCTURE FOR BOILERS. ETHAN I. DODDS and BENJAMIN E. D. STAFFORD, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 10, 1919. Serial No. 322,876. 2 Claims. (Cl. 85—1.5.)



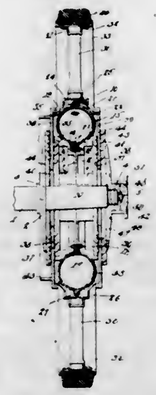
1. In a staybolt structure, the combination with a boiler sheet having a tapering opening with a transversely straight wall, of a bearing sleeve having an external portion rounded in the direction of the length thereof and having on said transversely straight wall of said tapering opening, means for securing said sleeve or bushing to the boiler sheet, and a staybolt having a head mounted in said bearing sleeve.

1,383,084. STAYBOLT STRUCTURE. ETHAN I. DODDS and FREDERICK K. LANDGRAF, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 10, 1919. Serial No. 322,877. 2 Claims. (Cl. 85—1.5.)



2. In a staybolt structure, the combination with a boiler sheet provided with a tapering opening having a wall which is straight from one face to the other of the sheet, of a sleeve or bushing passing through said tapering opening and provided with an exterior spheroidal face having a free bearing against the straight wall of said tapering opening, a staybolt having a head seated in said sleeve or bushing, a cap inclosing the outer end of the sleeve or bushing and the bolt head, and a weld integrally uniting said sleeve or bushing and the boiler sheet.

1,383,085. AUTOMOBILE-WHEEL. SALVADOR DOMINGUEZ, Mexico, Mexico. Filed June 14, 1917, Serial No. 174,735. Renewed May 2, 1921. Serial No. 466,215. 1 Claim. (Cl. 152—41.)

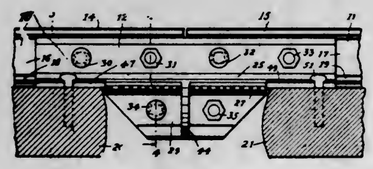


As an article of manufacture, for use in the making of a cushion wheel, an annular plate provided with an outwardly and laterally projecting hub-forming collar, and having a rib provided with a flange, the rib and the flange projecting outwardly and laterally parallel to the collar, the flange having an external recess one wall of which is disposed in a common plane with the end face of the collar, there being an annular transversely concaved seat in the periphery of the flange, and there being an outwardly and laterally extended groove in the inner surface of the rib, the flange being cut away, between the seat and the groove to form a surface set outwardly and laterally from the inner surface of the plate.

1,383,086. RAIL-JOINT. THOMAS DOUGHERTY, Minneapolis, Minn. Filed Oct. 2, 1920. Serial No. 414,365. 3 Claims. (Cl. 238—191.)

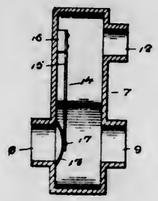
1. A rail joint comprising a pair of longitudinal members each having a portion directly engaging and clamp-

ing the webs of the rails immediately below the rail heads, said portion operating free of the rail heads, a V shaped portion adapted to engage the sides of the rail base oper-



ating free of the rail web, means for drawing said first named portions together and means for drawing said V shaped portions together.

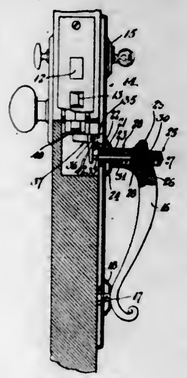
1,383,087. ATTACHMENT FOR ENGINES. FELIX EWING DUNN, Nanton, Alberta, Canada, assignor of one-half to James Alexander Nesbitt, Calgary, Alberta, Canada, and one-half to Stephen Burton Mitchell, Nanton, Alberta, Canada. Filed Jan. 31, 1920. Serial No. 355,381. 1 Claim. (Cl. 251—123.)



In an attachment for engines, as herein described, a substantially rectangular casing having registering openings through the side walls adjacent to the bottom thereof, and outstanding flanges, surrounding the openings, a saucer shaped valve in the casing surrounding and normally closing one of the openings, a flat spring secured to the valve and to the inner wall of the casing above the opening closed by the valve, and said casing having its opposite wall provided with an additional opening disposed directly opposite the secured end of the valve, and an outstanding flange surrounding said last mentioned opening, all as and for the purpose set forth.

1,383,088. HANDLE AND LATCH OPERATING DEVICE. WILLIAM K. EARLE, Ocean Park, Calif., assignor to Earle Hardware Manufacturing Co., a Corporation of California. Filed Apr. 7, 1920. Serial No. 372,374. 2 Claims. (Cl. 292—166.)

1. In combination with the latch operating arm of a door latch, an escutcheon plate mounted on the door, a hand grip on said plate, a stud formed on the hand grip extending through said plate, means for securing said stud to said plate, a recessed push button slidably mounted in said stud, a rod formed on said button slidably extending through the inner end of said stud, a coiled spring on said rod extending into the recess in said button arranged to elastically force said push button outwardly, a pin in said rod for limiting the outward movement of said button, a lug on said escutcheon plate, a lever having a plurality of perforations thereon and a pin in said lug extending through one of the perforations in said lever, said lever having a downwardly extending arm arranged



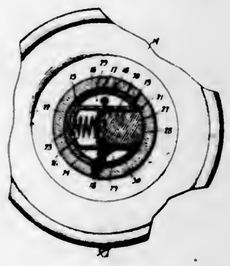
to be engaged by the inner end of the rod on said push button and an inwardly extending arm arranged to extend under the latch arm of the lock.

1,383,089. RAIL-FASTENER. GEORGE C. EICHENSEHR and JOHN E. NIESNER, Johnstown, Pa. Filed Apr. 27, 1921. Serial No. 464,861. 3 Claims. (Cl. 238—351.)



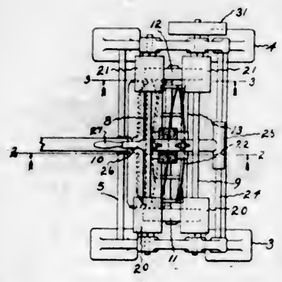
1. A rail fastener for ties including a tie having a T shaped slot therein, a fastener for engagement in said slot with a portion thereof arranged above the tie and a portion below the tie, said fastener being engageable in the head of the T slot to prevent lateral displacement of the fastener.

1,383,090. SELF-LUBRICATING AXLE. CHARLES M. FEIST, Sioux City, Iowa. Filed July 29, 1920. Serial No. 399,840. 4 Claims. (Cl. 64—27.)



1. A wheel bearing of the class specified, consisting of a cylindrical tubular body having an opening in the side wall thereof, a casing extending diametrically across and partially occupying the interior space of the body, the inner end of the casing being closed and the outer end open and extending through and coinciding with the opening in the side wall of the body, and an automatically operating lubricating means mounted in the casing.

1,383,091. GRINDER FOR LAWN-MOWERS. GEORGE W. FERNSIDE, Hartford, Conn. Filed Mar. 21, 1919, Serial No. 284,107. Renewed Nov. 23, 1920. Serial No. 426,104. 10 Claims. (Cl. 51—57.)



1. A machine for grinding the blades of a lawn-mower, comprising means for supporting the lawn-mower, means for causing the rotation of the blades of the lawn-mower, and movable means provided with a member rigid therewith for grinding the blades during the rotation thereof.

1,383,092. COMPOSITION FOR DYEING ANIMAL FIBER. JOHN H. FIEBIGER, West New York, N. J. Filed July 7, 1920. Serial No. 394,569. 7 Claims. (Cl. 8—6.)

1. A dyeing composition comprising a quantity of an anilin acid coloring material mixed with a quantity (not greater than five times the quantity of the coloring material) of an organic acid; and a quantity of a diluent.

1,383,093. SIGNAL-OPERATOR FOR SPREADING RAILS. CLIFFORD L. FINCH, Minneapolis, Minn. Filed Feb. 3, 1921. Serial No. 442,139. 8 Claims. (Cl. 246—121.)



1. In a railway signal apparatus, the combination with an electrically operated danger signal, of a rail connecting device including a pair of normally spaced contacts electrically connected to opposite rails and means for permitting the engagement of the contacts for electrically connecting the rails to set the signal to danger when the rails become moved laterally a predetermined distance from their normal position.

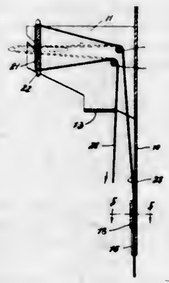
1,383,094. SHOCK-ABSORBER. LEO FURGISON FITZGERALD, Oilfields, Calif. Filed June 1, 1920. Serial No. 385,861. 2 Claims. (Cl. 267—8.)

1. A shock absorber comprising a casing inclusive of upper and lower detachably connected hollow sections, a stem arranged within said casing and having an enlarged head, the bore of said lower section being reduced thereby forming an annular shoulder intermediate the ends of the lower section, the head of said stem being reduced thereby forming an annular shoulder contacting with one side of said first named annular shoulder, a washer surrounding said stem and contacting with the other side of the shoulder of said lower section, a piston mounted on one end of said stem, a coiled spring surrounding said stem



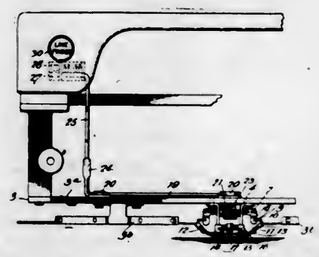
and confined between said piston and said washer, and a valve for said casing, said casing and said enlarged head being provided with attaching means.

1,383,095. TOY MOVING-PICTURE MACHINE. CHARLES E. FLYNN, De Beque, Colo. Filed Apr. 10, 1920. Serial No. 372,871. 9 Claims. (Cl. 88—17.)



1. A toy cut-out comprising a blank having a base and connected foldable side members, provided with registering bearings, a reel having a flat body and terminal trunnions to engage said bearings and a flexible strip engageable over the reel and having mobile objects depicted thereon in progressively different positions.

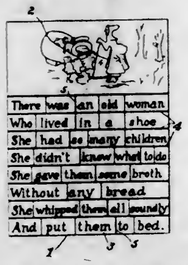
1,383,096. TYPEWRITING-MACHINE. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Original application filed Dec. 14, 1914, Serial No. 877,216. Divided and this application filed Aug. 17, 1918. Serial No. 250,316. 9 Claims. (Cl. 197—190.)



1. In a typewriter, the combination with a stationary platen, of a line finder normally withdrawn from the line,

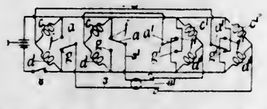
means for moving the line finder toward the line of writing and means effective during such movement to urge the line finder toward the platen.

1,383,097. EDUCATIONAL DEVICE. ADA R. GIBSON, Riverdale, Md. Filed Feb. 7, 1921. Serial No. 443,186. 2 Claims. (Cl. 35—9.)



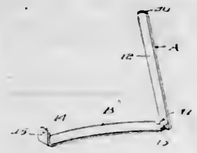
1. An educational device comprising a chart having thereon a picture and a plurality of lines of differing intensities, said lines adapted to guide the pupil in making a simple picture puzzle by severing the chart along the heavy lines and then a difficult one by severing said chart along the lighter lines.

1,383,098. CONSECUTIVE OPERATION OF TWO OR MORE MECHANISMS. JAMES FRANCIS GILL and JOHN NICHOLAS CHAVIARA, Liverpool, England. Filed Feb. 26, 1919. Serial No. 279,371. 4 Claims. (Cl. 172—293.)



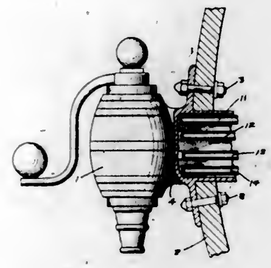
1. In electrical means for the consecutive operation of two or more mechanisms, the combination comprising transmitting and receiving instruments, an electro-magnet system and an oscillator movable under the influence of said system in each instrument, a source of electric current, means connecting the said source and the magnet systems of the instruments, and means whereby the oscillator of each instrument in turn can short circuit a portion of the oscillator operating system of the other instrument for producing consecutive movements of the oscillators, substantially as described.

1,383,099. HAIR-CURLER. ROBBIE GORDONE, New York, N. Y. Filed Nov. 24, 1920. Serial No. 426,268. 5 Claims. (Cl. 132—41.)



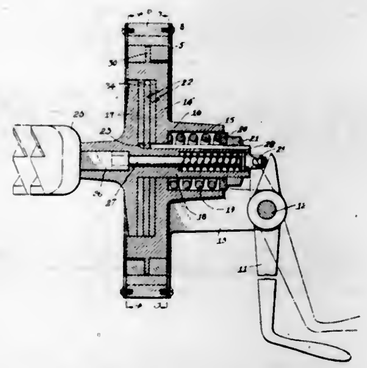
4. In a hair curler the combination with a rigid concavo-convex arm of a relatively narrow flat flexible arm, said narrow arm being of such width as to cause the hair which is wrapped about the concavo-convex arm to follow the concave face of the rigid arm the hair being retained against the convex face of the rigid arm because of the tension imparted thereto by the clamping action between the flexible arm and the concave face of the rigid arm and means for connecting the free ends of the arms together when they are sprung toward each other.

1,383,100. DISPENSING-FAUCET. ARCH B. GREEN, San Francisco, Calif., assignor of one-half to U. G. Walker, San Francisco, Calif. Filed Mar. 7, 1921. Serial No. 450,260. 4 Claims. (Cl. 225—25.)



1. A dispensing faucet comprising a housing having passages (11), (12), (13) and (14) therein and a valve adapted to be rotated in said housing; said valve having four passages, each adapted to establish a connection between the passages (11) and (12), and five outlets adapted to selectively draw on (12) alone, on (13) alone, while (11) and (12) are connected, and on (13) and (14) together, while (11) and (12) are connected.

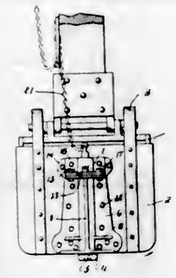
1,383,101. SAFETY-CRANK. CHESTER GREEN, Cornwall Landing, N. Y. Filed Aug. 25, 1920. Serial No. 406,003. 3 Claims. (Cl. 74—33.)



1. A safety crank including a clutch comprising a hollowed plate, a male plate, a plurality of plates interposed between said first named plates, certain of said latter plates being secured to said hollowed plate, the further plates of said clutch being secured to said male plate, a sleeve forming a part of said hollowed plate, an outwardly extending flange adjacent the base of said sleeve, an extending portion forming a part of said male plate and projecting through said sleeve and beyond the same, a spring interposed between said flange and projecting portion of the male plate, an engaging member secured to said male plates, and means for rotating said hollowed plates.

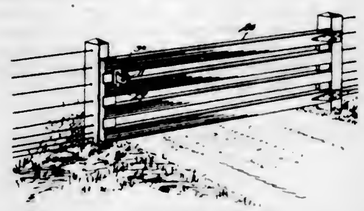
1,383,102. EXCAVATOR-DIPPER DOOR. JOHN J. GREULING, Hibbing, Minn. Filed Feb. 24, 1920. Serial No. 360,637. 3 Claims. (Cl. 37—54.)

1. A door for excavator dippers having a latch or bolt and also having a housing for the said latch or bolt, fixed with respect to the door and disposed at the outer side thereof; the said housing being provided adjacent to its



ends and at inner and outer sides, respectively, of the latch or bolt with pockets, and anti-friction rolls being arranged in series in each of said pockets.

1,383,103. GATE-LATCH. ROY T. GRIMES, Forbes, Mo. Filed July 23, 1920. Serial No. 398,427. 7 Claims. (Cl. 292—198.)



1. In a gate latch, a member adapted to be mounted on the gate or gate post and project forwardly therefrom, a locking element pivoted to the free end of said member and a weight secured to one end of said element for normally maintaining said element in vertical position, said weight being adapted to engage the lower portion of said member for limiting the locking movement of the pivoted element.

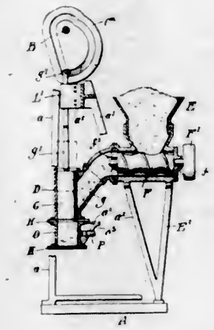
1,383,104. FINGER-RING. HARRISON R. GROSSMAN, Philadelphia, Pa. Filed Sept. 29, 1917. Serial No. 193,918. 2 Claims. (Cl. 63—15.)



1. A finger-ring provided with a recess, a screw cover for the top of said recess, an identification-disk, and co-acting structural means carried by said cover and disk for securing said disk to said cover.

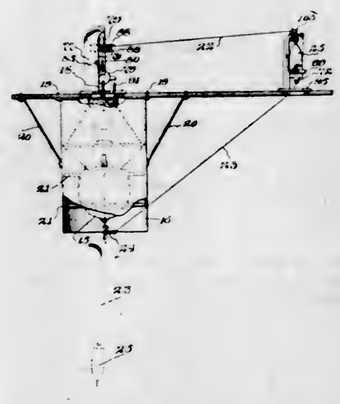
1,383,105. CAN-FILLING MACHINE. WILLIS T. GUILD, Jackson, Miss. Filed Nov. 29, 1920. Serial No. 427,186. 7 Claims. (Cl. 226—101.)

1. A can filling machine comprising a mold filling chamber open at the side, a vertically reciprocating plunger operating in said chamber, a mold mounted to oscillate in an arc below said mold filling chamber, a can carrier, a vertically reciprocating plunger operating in said mold to force material therefrom into a can, means for operating the two plungers, means for swinging the mold from a position under the mold filling chamber to a



position above a can in the carrier and below the can filling plunger, and means for giving a step-by-step movement to the can carrier.

1,383,106. AERIAL BOMB. JOHN B. HADAWAY, Swampscott, and CHARLES E. CAMPBELL, Lynn, Mass. Filed Dec. 14, 1918. Serial No. 266,763. 15 Claims. (Cl. 102—2.)

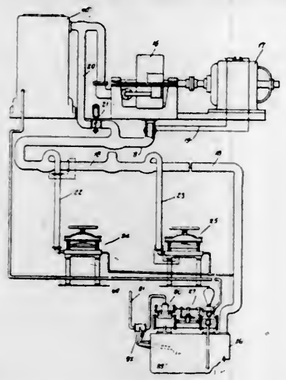


1. The combination with a bomb, of means operated by contact with the target toward which the bomb is moving for exploding the bomb when it reaches a predetermined distance from the target irrespective of the time of flight of the bomb, and a controlling member adjustable in one direction to increase and in another direction to decrease the distance.

1,383,107. GENERATION AND DISTRIBUTION OF HEAT. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Dec. 16, 1915. Serial No. 67,147. 19 Claims. (Cl. 219—20.)

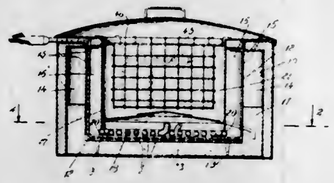
13. A heating system comprising a steam generator, an electrical generator, a heat translating device and a conductor connecting the translating device with said generators, said conductor comprising a pipe, a thermal and

electrical insulator surrounding the pipe and an electrical conductor embedded in the insulator, and means for op-



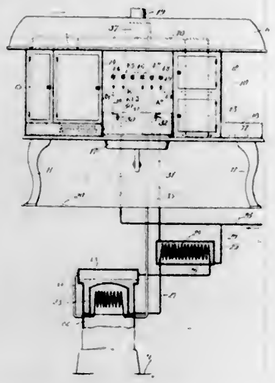
eratively utilizing the generated electricity to supplement and control the heat of the steam.

1,383,108. ELECTRIC STEAM-COOKER. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed July 26, 1917. Serial No. 182,814. 17 Claims. (Cl. 219—44.)



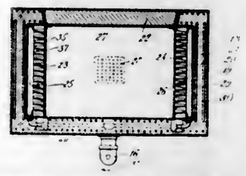
1. A high temperature steam generator comprising a heater, a water space on one side of the heater, means for maintaining water in the space, a steam chamber on the opposite side of the heater, and means for establishing a steam communication between the water space and the steam space.

1,383,109. RANGE. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed Aug. 1, 1917. Serial No. 183,861. 17 Claims. (Cl. 219—19.)



7. The combination with a heated chamber and an electric circuit connector therein, of a baking dish having a connector to coöperate with the connector in the chamber adapted to be inserted therein and having walls of heat insulating material of relatively large heat capacity, and electric heaters for heating the interior of the baking dish.

1,383,110. HEATING APPARATUS. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Original application filed Nov. 15, 1919, Serial No. 338,328. Divided and this application filed Aug. 7, 1920. Serial No. 401,898. 9 Claims. (Cl. 126—20.)



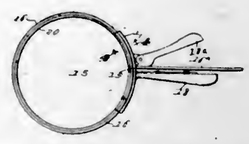
1. A heating system comprising a steam generator, a combination superheater, a working member and electro-responsive means for boosting the temperature of the steam at the working member.

1,383,111. GAS-GUN. GEORGE U. HALL and JAMES B. TRUITT, Winnemucca, Nev., assignors of one-fourth to Andrew P. Weidman and one-fourth to Louise Hall, Winnemucca, Nev. Filed Mar. 18, 1918, Serial No. 223,131. Renewed Sept. 16, 1920. Serial No. 410,744. 15 Claims. (Cl. 89—7.)



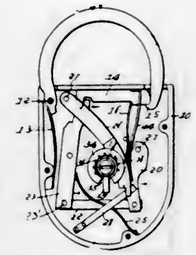
2. In a gas gun, the combination of a barrel, a fixed spark plug spaced in rear of said barrel and alined therewith, a tubular breech block slidably surrounding said spark plug at its rear end and communicating at its front end with said barrel, a compressor for forcing compressed gas into said breech block, a gas supply for said compressor, communicating means between said compressor and the interior of said breech block, means for shifting said block rearwardly from the barrel and then again forwardly and for operating said compressor to compress gas in the breech lock when the latter has reached its forward position, means for placing a bullet at the rear end of the barrel each time said breech block is retracted, and means for completing the circuit of said spark plug after compression of the gas in said breech block.

1,383,112. JAR-HOLDER. MAYNARD N. HANSON, Little Rock, Ark. Filed Dec. 9, 1919. Serial No. 343,453. 2 Claims. (Cl. 81—3.2.)



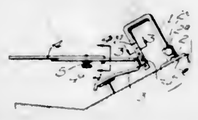
1. A jar body holding device having a frictionally faced bearing plate interiorly concaved for contact with the surface of a jar body and provided with interior alined grooves forming seats, a handle rigidly connected with said plate, and a flexible frictionally surfaced band engaging said seats in the bearing plate, one of the terminals of the band being secured to the plate and the other being extended through a guide opening to lie adjacent to and in grasping relation with said handle.

1,383,113. LOCK. ALFORD HARDIN, Murray, Ohio. Filed Nov. 25, 1919. Serial No. 340,592. 5 Claims. (Cl. 70—112.)



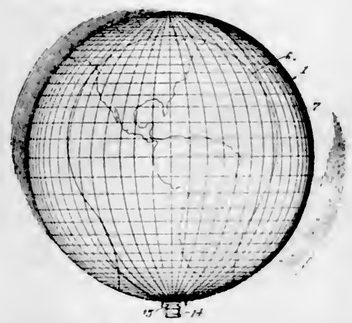
1. A lock having a bolt and a trip arm operatively connected therewith for communicating unlocking movement thereto, a ward mounted for pivotal movement to engage said trip arm, a retaining arm having a stop lug normally arranged in the path of said ward for preventing engagement thereof with the trip arm, and a movable combination disk provided with means for normally maintaining said retaining arm in position to interfere with the unlockng movement of said ward.

1,383,114. ACCELERATOR EXTENSION-PEDAL FOR AUTOMOBILES. FRED HARRINGTON, San Diego, Calif. Filed Feb. 24, 1920. Serial No. 360,734. 7 Claims. (Cl. 74—81.)



1. An accelerator extension pedal, including a hinged support and an accelerator engaging member pivotally mounted on the free side of said support and extending backwardly.

1,383,115. INFLATABLE GLOBE. ELLEN HENDRY, Fresno, Calif. Filed July 30, 1920. Serial No. 400,198. 6 Claims. (Cl. 35—5.)



1. A spherical envelop for a geographical globe carrying on its surface geographical features, th esaid envelop being divided into two equal parts by a doubly symmetrical spherical curve.

1,383,116. CLOTH-SAVING DEVICE. REUBEN H. HOLDER, Winston-Salem, N. C. Filed Oct. 7, 1919. Serial No. 329,130. 5 Claims. (Cl. 33—11.)



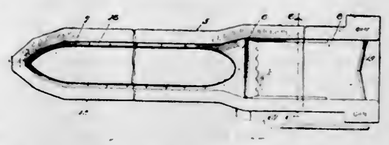
1. A pattern board of the class described having one corner provided with a recess having a curved wall and the adjacent corner having a recess therein having its bottom slightly inclined, said board also having a longitudinally extending slot beginning at its upper edge and extending to a point below the recess, said slot being located midway the side edges of the board.

1,383,117. METHOD OF CASTING THE HULLS OF SHIPS FROM CONCRETE AND FLOATING SAID HULLS INTO A LAUNCHING-BAY. JULIUS H. HOLMGREEN, San Antonio, Tex. Filed Oct. 5, 1918. Serial No. 257,053. 6 Claims. (Cl. 25—130.)



1. The method of constructing the hulls of ships from concrete which consists in covering the bottom of a suitable mold having perforations in its lower part with a lining of paper, casting the hull within the mold and subsequently introducing water through perforations in the mold to disintegrate the lining and float the hull out of the mold.

1,383,118. MOLD FOR CASTING THE HULLS OF CONCRETE SHIPS. JULIUS H. HOLMGREEN, San Antonio, Tex. Filed Oct. 5, 1918. Serial No. 257,054. 14 Claims. (Cl. 25—130.)

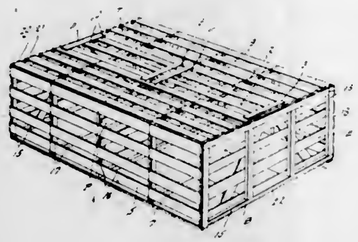


1. A mold for casting the hulls of ships from concrete comprising a chamber constituting a mold, a docking chamber adjacent thereto, and a dividing wall common to both chambers, said chambers being in communication with each other over said dividing wall.

1,383,119. WIRE-BOUND COOP. ARTHUR M. HOOD, Indianapolis, Ind., assignor, by mesne assignments, to Wirebounds Patents Company, a Corporation of Maine. Filed Oct. 11, 1915. Serial No. 55,144. 8 Claims. (Cl. 217—47.)

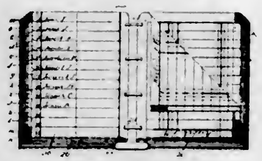
1. A wirebound box or crate blank, comprising a plurality of independent cleated sections foldably associated

by means of binding wires, one of said sections comprising two parallel members lying transversely of the binding wires and held in spaced relation by cleats associated with said members and the binding wires, and two inter-



digitated sliding doors lying between the spaced members and interlocked therewith, said doors being slidable in opposite directions between and parallel with the parallel members.

1,383,120. MARGINAL INDEXING. JAN J. HRBEK, Cedar Rapids, Iowa. Filed Oct. 16, 1920. Serial No. 417,346. 7 Claims. (Cl. 283—36.)



1. In an index, a series of progressively stepped leaves, the steps of each leaf being similarly disposed above and below the middle of the leaf margin, whereby the indexing is not affected by inverting the leaf.

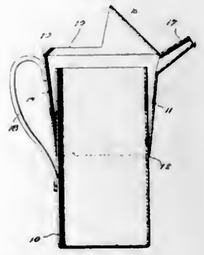
1,383,121. CIGAR AND CIGARETTE HOLDER. THEODORE R. JAMES, Robson, W. Va. Filed July 1, 1919. Serial No. 307,987. 1 Claim. (Cl. 131—10.)



A device of the class described comprising a cigarette holder having an exterior annular groove adjacent its outer end, a cigar holder made of elastic material and having a ring at its inner end for engaging said groove for holding the parts together, said ring being formed of less elastic material than the rest of the cigar holder.

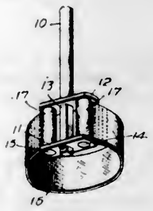
1,383,122. DISPENSING-MEASURE FOR LIQUIDS. MERL W. JONES, New Lyme, Ohio. Filed Feb. 10, 1920. Serial No. 357,542. 1 Claim. (Cl. 221—9.)

A device of the character described comprising an inner receptacle, a surrounding member of inverted frusto-conical shape disposed about said inner receptacle and secured thereto at its lower edge intermediate the ends of the inner receptacle, said surrounding member defining with said inner receptacle an annular reservoir chamber, the upper edge of the surrounding member extending above the top of the inner receptacle and terminating in an inwardly directed flange, a hood extending across a portion of the upper end of the surrounding member,



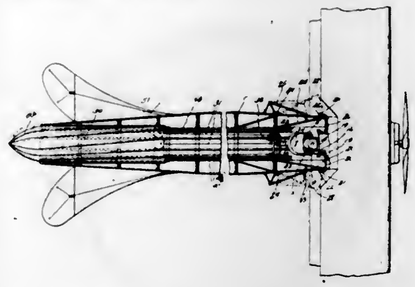
and a discharge spout on said outer surrounding member adjacent the hood and communicating with said annular reservoir chamber.

1,383,123. WRENCH. ROBERT HENRY JONES, Randolph, Nebr. Filed Feb. 28, 1921. Serial No. 448,510. 2 Claims. (Cl. 81—64.)



2. A wrench comprising a bar having an angular extremity, spaced members seated upon the angular extremity, pins extending between the spaced members and spaced upon opposite sides of the bar, and a flexible band having its ends folded about and embracing the pins.

1,383,124. LIFE-SAVING MEANS FOR AEROPLANES AND OTHER AIRSHIPS. PERRY L. JORDAN, Washington, Iowa. Filed Jan. 14, 1921. Serial No. 437,249. 12 Claims. (Cl. 244—21.)



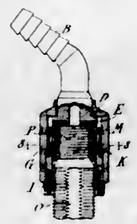
1. In an airship, the combination of a tubular casing, means under the control of an aviator to admit air into the forward portion of said casing, an aviator's seat movable in the casing, and a parachute carried and movable in the casing and connected with the aviator's seat and movable with said seat through the rear end of the tubular casing.

1,383,125. GUN-SLING. FRANKLIN K. KENNEDY, Jr., U. S. Army. Filed Sept. 19, 1919. Serial No. 325,013. 6 Claims. (Cl. 224—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



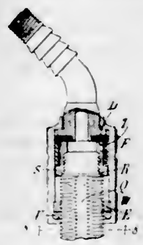
1. A gun sling having a looped buckle part, an adjusting buckle on the buckle part, and a loop member mounted at one end in the loop in the buckle part and securable, at its other end, to the buckle.

1,383,126. PUMP-COUPLING. HENRY P. KRAFT, Ridgewood, N. J. Filed Mar. 29, 1920. Serial No. 369,588. 9 Claims. (Cl. 285—124.)
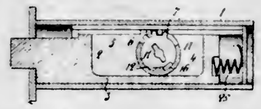


8. A pump coupling having a large nut and a small nut non-rotatively and separably connected thereto.

1,383,127. DOUBLE PUMP CONNECTION. HENRY P. KRAFT, Ridgewood, N. J. Filed Mar. 29, 1920. Serial No. 369,589. 8 Claims. (Cl. 285—124.)



1. A coupling having two nuts of different internal diameters, the larger of said nuts being arranged below and the smaller of said nuts being arranged above, the smaller nut being adapted to be pressed against the upper part of the coupling when the larger nut is engaging a valve.

1,383,128. CYLINDER-LOCK. SOFUS ANDREW EMIL LARSEN, Copenhagen, Denmark. Filed June 3, 1920. Serial No. 386,227. 2 Claims. (Cl. 70—46.)



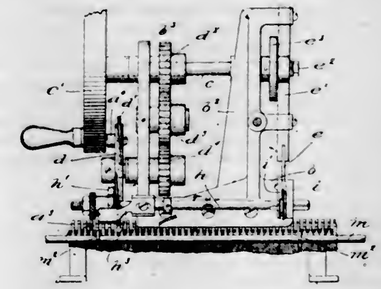
2. A cylinder lock, comprising a casing; a bolt slidable therein and having a rack rigidly connected to it; a ward cylinder having a portion in open communication with the interior of the casing directly opposite said rack; a longitudinal boss on the inner surface of the cylinder; a plurality of ward plates fitted in said cylinder and formed both with alining peripheral notches to conformably receive said boss and thereby be held against rotation, and with alining central holes to rotatably accommodate a key; and a toothed disk fitted in said cylinder directly opposite the open portion thereof and in mesh with said rack, said disk having a peripheral notch wherein said boss is engaged with lateral play in opposite directions, and also having a central hole wherein the key is operatively engageable to rotate the disk when the key is turned.

1,383,129. GARMENT-FASTENER. FRANK D. LA VALLE, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,433. 5 Claims. (Cl. 24—227.)



5. A garment fastener including a pair of identically formed members, each comprising a base adapted to be secured to a garment and an integral hook provided on said base adjacent one end thereof and having its free extremity overlying said base in spaced relation thereto, said hooks adapted to embrace and co-act with the bases of the other member and with one another to secure the members against lateral displacement and longitudinal separation in one direction.

1,383,130. MEANS FOR SPLICING THREAD ENDS. CHARLES LEA, Boston, Mass., assignor to American Warp Drawing Machine Company, Boston, Mass., a Corporation of Maine. Filed Feb. 8, 1915, Serial No. 6,905. Renewed Sept. 15, 1920. Serial No. 410,484. 15 Claims. (Cl. 139—95.)



1. A warp splicing machine embracing the combination of a guide member provided with a series of guides for

receiving the ends of two series of threads in over-lapped position and a clip-setting device for securing upon said over-lapped ends a series of fastening clips to splice each pair of ends together, substantially as described.

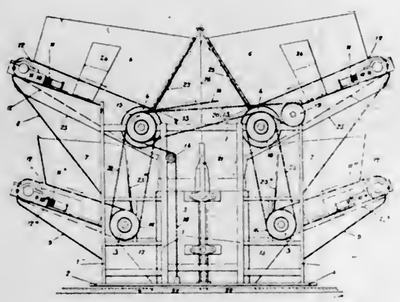
2. The combination of a rack bar whose teeth form guides for retaining two sets of threads with the thread of one set overlapping the ends of the other set and a means coöperating with said rack bar to bind together the over-lapped ends of the two sets of threads, substantially as described.

3. The combination with a rack bar for holding two sets of thread ends in over-lapped position, a clip feeding mechanism for feeding fastening clips successively to the over-lapped threads, and means for clenching the clips around the over-lapped ends of the threads, substantially as described.

4. A device for splicing warps embracing a guide bar for holding two sets of threads in juxtaposition, a clip feeding mechanism for feeding clips to each pair of thread ends successively, a mechanism for fastening the clips upon corresponding threads of each series, and means for advancing the clip feeding and fastening mechanism along the guide bar, substantially as described.

5. The combination of a guide bar provided with guides for positioning corresponding threads of two series of threads in juxtaposition, a carriage movable along said guide bar, clip setting means mounted on said carriage in position to fasten successive clips on each successive pair of the two adjacent sets of threads, substantially as described.

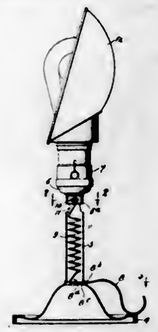
1,383,131. APPARATUS FOR THE MANUFACTURE OF BRICKS OR BUILDING-BLOCKS. EDMOND LECHAT, Nantes, France. Filed Mar. 30, 1921. Serial No. 457,044. 6 Claims. (Cl. 25—41.)



1. A feeding apparatus for brick or building block presses, comprising in combination upper troughs containing the concrete used to form the main body or core of the brick or block, lower troughs containing the concrete used to form a facing upon one or more sides of the brick or block, endless aprons constituting the movable bottom of the distributing troughs, each trough being provided with adjustable shutters, spouts vertically moved extending through an opening into the mold of the press, a series of feeding chutes leading the first of said qualities of concrete into said spouts and another series of feeding chutes leading the second of said qualities of concrete around said spouts.

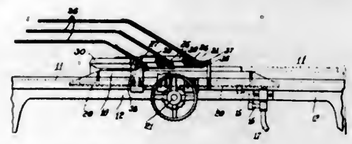
1,383,132. ELECTRIC-LAMP STAND. HARRY LERNER, Brooklyn, N. Y. Filed Dec. 10, 1920. Serial No. 429,727. 1 Claim. (Cl. 240—53.)

An electric lamp-stand comprising a base-plate and a vertical tube therefor, a socket pivotally secured upon a cross-pin carried at the upper end of said tube, a coiled spring extending from the base plate through said tube and secured to said cross-pin, and a handle extending laterally from said tube pivotally movable and engaged



by the lower end of said coiled spring and coöperating with said base plate to clamp the lamp stand to an article of furniture.

1,383,133. METHOD OF SPLITTING SHEET MATERIAL. CHARLES E. LUCKE, New York, N. Y. Filed June 21, 1915. Serial No. 35,264. 5 Claims. (Cl. 69—9.)



1. The method of splitting sheet material which comprises holding the material against a supporting surface by suction, and cutting a succession of layers therefrom while so held without releasing the sheet.

2. The method of splitting a sheet of leather, which comprises holding the sheet by suction with its grain side resting flat against the surface of a permeable support, removing the surface portion from the soft side of the sheet while so held on the support to leave a sheet of uniform thickness, and thereafter and while the sheet is so held on the support cutting a layer therefrom by a knife edge positioned with reference to the supporting surface.

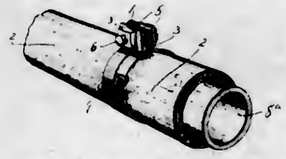
3. The method of splitting a sheet of leather which comprises holding the sheet by fluid pressure with its grain side resting evenly against a supporting surface, and while the sheet is so held cutting therefrom in succession a plurality of layers without releasing the said sheet.

4. The method of splitting sheet material which comprises holding the sheet of material against a supporting surface by suction, and while the sheet is so held cutting therefrom a plurality of layers at a single relative traversing movement between the supporting surface and the cutting device.

5. The method of splitting a sheet of leather into a plurality of layers which comprises cutting surface portions from the soft side of the sheet and thereafter splitting the sheet into a plurality of layers each of substantially uniform thickness throughout, the sheet during the cutting operations being held by suction with its grain side against a surface of reference.

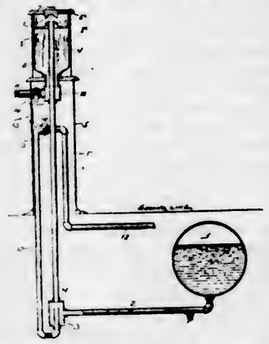
1,383,134. HOSE-CLAMP. CARL J. LUNDGREN, Mount Jewett, Pa., assignor of one-half to Hugo J. Walter, Bradford, Pa. Filed Apr. 12, 1920. Serial No. 373,210. 1 Claim. (Cl. 24—19.)

A hose clamp consisting of a sheet metal strip offset approximately at its center so that when wrapped around a hose the two half portions thereof will be parallel and each approximately encircle the hose with the offset portion resting in a plane between the two free ends of the clamp, each free end of the clamp being enlarged laterally in opposite directions so as to overlap, one of said free ends having plain flat surfaces and the other



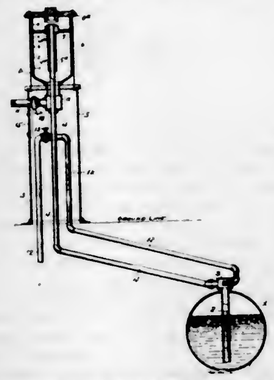
having the free side edge of its laterally enlarged end bent up to form a lock for a nut, both of said laterally bent ends being without flanges other than the nut locking flange so that they can yield or give to accommodate themselves to variations in the diameter of the hose.

1,383,135. GASOLENE SERVICE-TANK. ABNER JUDSON MCGEHEE, Jackson, Tenn. Filed Aug. 30, 1919. Serial No. 320,763. 8 Claims. (Cl. 221—99.)



1. In a gasolene dispensing apparatus, the combination of a main tank, a dispensing tank, a three way coupling, a continuously open pipe leading from the main tank to the coupling, a continuously open pipe leading from the coupling to the dispensing tank, an air pipe leading from a source of supply to the three way coupling and discharging into the latter, a valve in said air pipe, a discharge pipe from the dispensing tank and a valve in said latter pipe.

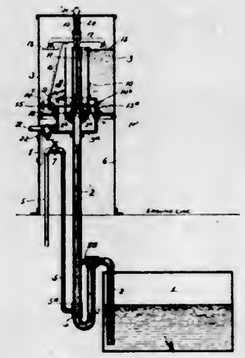
1,383,136. GASOLENE SERVICE-TANK. ABNER JUDSON MCGEHEE, Jackson, Tenn. Filed Sept. 26, 1919. Serial No. 326,426. 9 Claims. (Cl. 221—100.)



1. In a gasolene dispensing apparatus, the combination of a main tank, a dispensing tank, a three way coupling

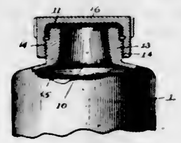
in a plane above the gasolene level in the main tank, a continuously open pipe leading from the main tank near the bottom thereof and connected with the coupling, a continuously open pipe leading from the coupling to the dispensing tank, a pipe leading from a source of compressed air and discharging into the coupling, a discharge pipe from the dispensing tank, a valve in the discharge pipe and a valve in the air pipe.

1,383,137. GASOLENE-DISPENSING APPARATUS. ABNER JUDSON MCGEHEE, Jackson, Tenn. Filed Oct. 31, 1919. Serial No. 334,710. 6 Claims. (Cl. 221—99.)



1. In gasolene dispensing apparatus, the combination of a main tank, a dispensing tank, a pipe leading from the main tank near the bottom thereof and terminating in the dispensing tank, the said pipe having a trap intermediate the two tanks, and an air pipe terminating in the discharge pipe within the trap portion of the latter, and discharging the air upwardly therein.

1,383,138. NON-CORROSIVE ATTACHMENT FOR CONTAINERS. ROBERT D. MADDOX, U. S. Army. Filed Nov. 26, 1918. Serial No. 264,227. 1 Claim. (Cl. 215—43.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

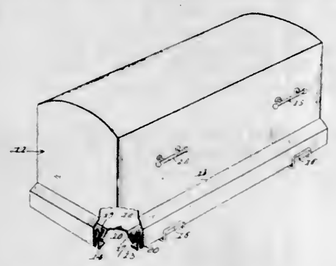


The combination with a container characterized by a tubular discharge portion externally reduced at the outlet end, of a lining for the discharge comprising a tubular member having a lateral bearing flange to engage over the reduced portion with the outer face of the bearing flange disposed wholly within the lines of the unreduced portion, a cap bearing over the discharge portion and engaging the unreduced portion of the discharge, and a lining for the cap having a downturned outer portion engaging over the lateral flange of the lining.

1,383,139. STEEL BURIAL-VAULT. ALBERT J. MERKELBACH, Muscatine, Iowa. Filed Sept. 2, 1920. Serial No. 407,726. 3 Claims. (Cl. 27—6.)

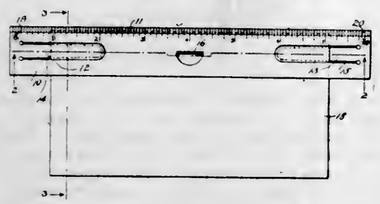
2. A burial vault having base and cap members of which the former is provided with an elevated bench or seat and depending flanges terminating in supporting lips or feet, and of which the latter is provided with side walls overlapping said flanges and extending substantially

to the plane of said lips or feet, the base member being provided between the bench or seat flanges with a de-



pressed sealing channel and the cap member being provided with an inwardly extending leaf forming a rib for engagement with said sealing channel.

1,383,140. COMBINATION RULE AND BLOTTER-HOLDER. HENRY D. NATERMAN, Los Angeles, Calif., assignor of one-half to Frank W. Winship, Riverside, Calif. Filed May 1, 1920. Serial No. 378,039. 3 Claims. (Cl. 120—2.)



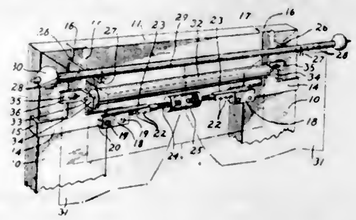
1. An article of manufacture comprising a ruler composed of a strip of spring metal having formed integral therewith a pair of oppositely disposed prongs projecting inwardly from each end of said metal strip.

1,383,141. CLOSING-GUIDE FOR COLLAPSIBLE TUBES. GEORGE H. NEIDLINGER, East Orange, N. J. Filed Jan. 14, 1920. Serial No. 351,295. 3 Claims. (Cl. 113—116.)



2. As an article of manufacture, a collapsible tube having panels of written matter upon its face, and means also appearing upon the outer face of said tube and adjacent its lower edge, and being substantially in line with one of said panels for indicating the point at which the jaws of a crimping machine should contact for properly closing the open end of said tube subsequent to the same being filled.

1,383,142. CURTAIN-FIXTURE. ANTONI NIEDZIELA, Manchester, N. H. Filed Aug. 2, 1919. Serial No. 314,891. 1 Claim. (Cl. 156—23.)



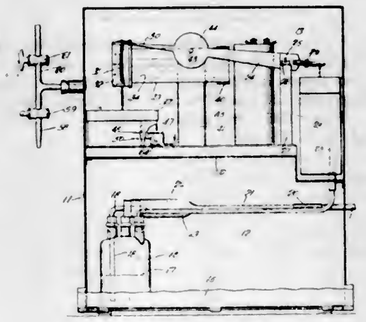
In a curtain fixture, the combination with a pair of metallic plates having horizontal and vertical elements, bent projections formed at right angles with the outer ends of said vertical elements and said horizontal elements, of plates spacedly supported at the front of said horizontal elements near the inner ends thereof, detents engaged between said plates and said strips, bars having ratchet teeth engageable upon said detents, stems formed with said bars having respectively right and left hand threads, a turn-buckle engageable with said threaded stems whereby said strips may be drawn toward each other, arms integrally formed with said vertical elements extending outwardly, spurs on said arms adapted to engage with a drapery pole, and a pair of opposed hanger brackets adjustably secured upon said vertical elements adapted to support between them a shade roller.

1,383,143. HYDRAULIC RAM. JAMES OLIVER KAFADER, Fort Bidwell, Calif. Filed Aug. 16, 1918. Serial No. 250,260. 3 Claims. (Cl. 103—29.)



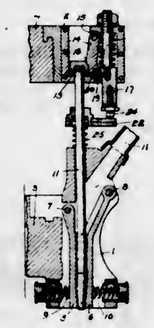
1. A hydraulic ram including a drive pipe having an open upper end and adapted to form a hydrostatic motive column, a valve-controlled air chamber communicating with said drive pipe, an ascension pipe rising from the air chamber, an impetus valve controlling the intermittent discharge of said drive pipe beyond the air chamber and adapted to be closed by the flow of the motive column, said valve opening upwardly, and spring actuated means to positively lift said valve, said lift means being subject to a cessation of flow of the motive column; together with a well casing adapted to be installed between upper and lower subterranean water stratums, said casing having its upper end closed and from which closed end said drive pipe is suspended and through which the ascension pipe extends, said lift means being arranged above the well casing.

1,383,144. APPARATUS FOR INDICATING THE CONDITION OF COAL COMBUSTION. ZACHARIAS OLSSON, Brooklyn, N. Y., assignor to Aug. Rust-Oppenheim, New York, N. Y. Filed Aug. 26, 1920. Serial No. 406,522. 9 Claims. (Cl. 234—10.)



3. An apparatus as characterized comprising a gravity balanced scales, a gas chamber, a counterbalancing member for said scales mounted in said chamber, said counterbalancing member containing a fluid of specific gravity differing from the gas normally admitted to said chamber, and means for sealing said fluid in said counterbalancing member, said means embodying a partition dividing said chamber to form a closed chamber and an open chamber, said chambers communicating by means of a pipe overflowing from the upper to the lower chamber.

1,383,145. NAILING-MACHINE. JOSEPH F. PENNER, New Castle, and ALDA A. LANSBERRY, Vandergrift, Pa., assignors to Vandergrift Box Company, a Corporation of Michigan. Filed Mar. 25, 1921. Serial No. 455,618. 8 Claims. (Cl. 1—10.)



6. In a nailing machine, the combination of a nail-holding chuck, a plunger holder reciprocable with relation thereto, a plunger borne by said holder and reciprocable in the chuck, a releasable latch for locking the plunger to said holder, a movable member for holding the latch in plunger-locking position, and a trip arranged between said latch-holding member and the face of an article being nailed and adapted when bearing upon such face to move said member from latch-holding position.

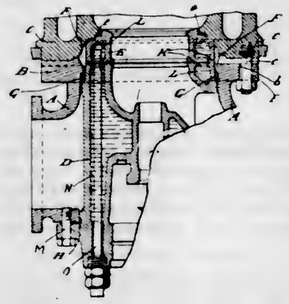
1,383,146. GEM-MOUNTING. TOLBERT M. PERRIN, Bozeman, Mont. Filed June 16, 1920. Serial No. 389,331. 5 Claims. (Cl. 63—29.)

1. In a gem mounting the combination with an article formed with a threaded opening having an annular depression around its upper edge, a threaded sleeve fitting said threaded opening and formed at its upper end with slits providing a series of yielding gem engaging portions,



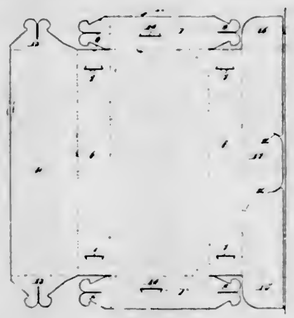
said portions being provided with a flange to fit the depression around the opening in the article and said flanges also having recesses and a gem fitting in said recesses.

1,383,147. EXHAUST-VALVE BOX OF INTERNAL-COMBUSTION ENGINES. HENRY PILLING, Chorlton-cum-Hardy, England. Filed Dec. 10, 1919. Serial No. 343,832. 3 Claims. (Cl. 123—188.)



1. In an exhaust valve box for an internal combustion engine in which the casing of the valve box and the separate valve seating are connected to the cylinder by flanged joints, spaces provided between the flanges of the casing and the cylinder by which any gas leaking past the valve seating joint escapes directly to the surrounding air, substantially as described.

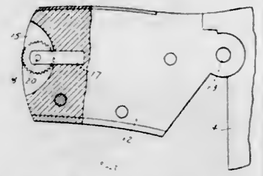
1,383,148. FOLDING BOX. EDWARD E. PINKERTON, Chicago, Ill. Filed Aug. 8, 1917. Serial No. 185,063. 1 Claim. (Cl. 229—36.)



A folding box comprising a bottom; foldable side and end walls therefor; top members at the upper edges of said side walls, each of said top members being of a size to extend slightly over half way across the top of the box and overlap at their free edges, there being slits opening at the free edge of the innermost of said top members, adapted to receive the free edge of the uppermost of said top members; interlocking tongues at the edges of said end walls, there being slits in said side walls adapted to receive said tongues; tongues at the opposite ends of the outermost of said top members, there being slits in the end walls adapted to receive said tongues;

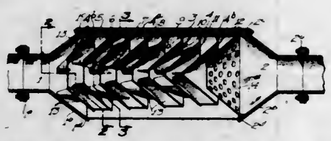
flaps at the ends of the innermost of said top members, adapted and arranged to be inserted within the box and contact with the bottom thereof to support said top members, substantially as described.

1,383,149. LAST. JOHN H. POOLE, Whitman, Mass., assignor of sixteen thirty-seconds to James T. Masterson and John J. Masterson, doing business as Masterson Brothers, eight thirty-seconds to Fred Drew, four thirty-seconds to Frank L. Price, two thirty-seconds to J. G. Wilde, Brockton, Mass., and one thirty-second to J. W. Barlow, Quincy, Mass. Filed Aug. 11, 1920. Serial No. 402,780. 2 Claims. (Cl. 12—141.)



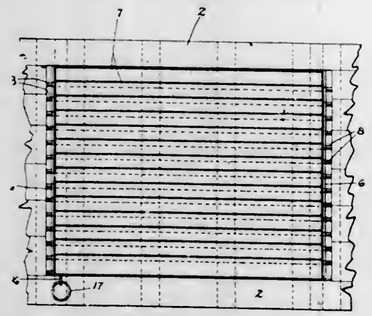
2. A last attachment comprising a dowel, adapted to be secured in a longitudinal socket in the heel end of the last, and a serrated wheel journaled in the outer end portion of said dowel, and of greater diameter than the dowel, so that the wheel may be laterally supported by the sides of a slot formed in the last at opposite sides of said socket.

1,383,150. MUFFLER FOR EXHAUST-GASES. CHARLES E. PAICE, San Diego, Calif., assignor of one-half to G. M. Alexander, San Diego, Calif. Filed Apr. 14, 1920. Serial No. 373,793. 8 Claims. (Cl. 137—160.)



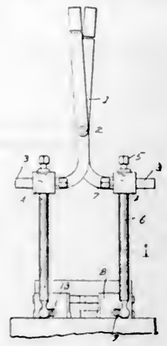
1. A muffler for exhaust gases, including a casing, a plurality of partitions therein provided with gradually decreasing inlet openings centrally in said partitions and with gradually increasing outlet openings at the outer edge of said partitions.

1,383,151. GRATE FOR ELEVATOR-DUMP PITS. RICHARD G. QUEHL, Minneapolis, Minn., assignor to The Strong-Scott Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 5, 1920. Serial No. 401,437. 4 Claims. (Cl. 214—49.)



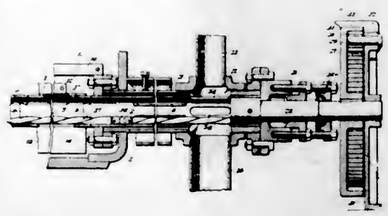
1. The combination, with a dumping platform having a pit opening therein, of a series of plates having bearings at their ends in said platform on each side of said opening and extending across said opening, the edges of said plates being arranged to overlap to close the gap between the plates, and means for tilting said plates on a longitudinal axis to provide spaces between them for the discharge of the grain into the pit beneath.

1,383,152. PISTON-RING-COMPRESSING TOOL. ADOLPH RALOFF, Jr., Thiensville, Wis., assignor, by direct and mesne assignments, of two-fifths to Theadore H. Wegmann and one-fifth to A. G. Raloff, Thiensville, Wis. Filed Feb. 24, 1920. Serial No. 360,927. 8 Claims. (Cl. 29—86.4.)



8. A piston ring tool comprising a plurality of shoes arranged to be placed about and in contact with the piston, each of said shoes comprising a rounded inner concave face and a projecting rib formed at the lower portion of and extending inwardly from said concave face; a pair of operating handles; and intermediate means operatively connecting said operating handles and said shoes, whereby said rib is caused to compress the rings to a diameter smaller than that of the piston.

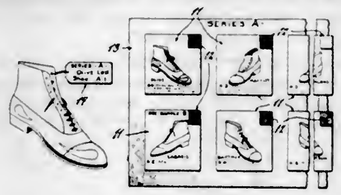
1,383,153. BOILER FEED-WATER DISTRIBUTER AND CLEANER. CHARLES W. RENEAU, Baton Rouge, La., assignor of one-half to James R. Bankston, Anguilla, Miss. Filed Aug. 10, 1918. Serial No. 249,338. 4 Claims. (Cl. 122—383.)



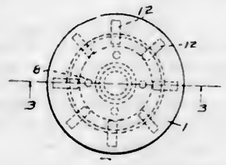
1. In means for the purpose described, the combination of a pipe, means to turn the pipe about its axis, and a knocker bar loosely disposed longitudinally in the pipe and in contact with the wall thereof whereby turning of the pipe will be attended by movement of the knocker-bar in and against the pipe.

1,383,154. SHOE-DISPLAYING DEVICE. JESSE R. RODGERS, Union City, Tenn., assignor of one-half to Wayman C. Joplin, St. Louis, Mo. Filed Oct. 25, 1920. Serial No. 419,291. 5 Claims. (Cl. 35—17.)

1. In a shoe displaying device, the combination of a sample shoe, a series of pictures representing shoes of the same class as the sample shoe, and samples of leather combined with said pictures to show the quality and color of leather in the shoes represented by the pictures, said sample shoe, pictures and samples of leather being associated with each other to show the shape, color, quality and workmanship of a series of shoes of the same class.



1,383,155. RUBBER HEEL. LEO J. SCHAEFER, Toledo, Ohio. Filed Dec. 26, 1919. Serial No. 347,304. 1 Claim. (Cl. 36—39.)



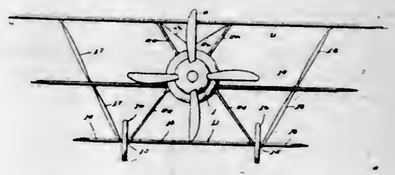
In a rubber heel, a retaining member having a beaded flange around its lower edge, the rubber heel having a recess and an inwardly extending flange, the flange fitting around the outside of the retaining member and above the bead and angular retaining strips secured to the heel and having parts thereof located on the outside of the flange to form a bearing surface against the upper side of the bead.

1,383,156. CRUTCH. CLEVELAND A. SHERMAN, Alamosa, Colo. Filed Apr. 1, 1920. Serial No. 370,520. 1 Claim. (Cl. 135—50.)



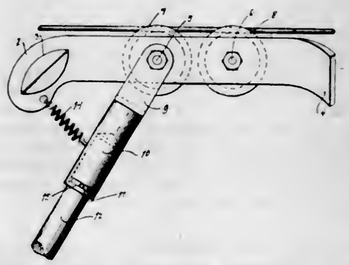
In a crutch, side pieces having large perforations, a vertically adjustable and reversible leg between said side pieces and having small perforations, upper and lower bolts engaging selected perforations of said leg and of said side pieces and having threaded ends, nuts engaging the related perforations of the side pieces and the ends of said bolts, said nuts and said bolts being removable and engageable with other selected perforations of said leg and said side pieces in the adjustment of the leg vertically, said side pieces upon removal of the upper bolt having movement outward through inherent resiliency upon the lower bolt as a center and thereby facilitating the reversal of the leg pivotally upon the lower bolt as a center, and the large perforations of the side pieces serving as a guide in the engagement of the bolt with the small perforations of the leg.

1,383,157. AIRPLANE. HENRY B. SHIELDS, Freeport, N. Y. Filed Oct. 30, 1918. Serial No. 260,343. 10 Claims. (Cl. 244—14.)



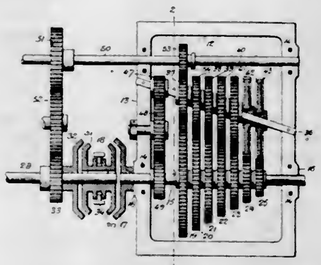
1. In an airplane, the combination, of a fuselage, a plurality of substantially V-shaped struts depending from said fuselage, a spar carried by said struts, an aerofoil built upon said spar in three sections and having the end sections spaced from the intermediate section.

1,383,158. TROLLEY. ADAM SHULTZ, Worcester, Mass. Filed Mar. 18, 1921. Serial No. 453,276. 2 Claims. (Cl. 191—58.)



1. A device of the class described comprising a frame having a pair of parallel side members, the rear ends of said members being curved outward, trolley wheels mounted in said frame, one of said wheels having a relatively wide groove having a substantially cylindrical bottom, a member pivotally attached to the underside of said frame, said member being adapted to be secured upon a trolley pole, and means for urging said frame to rotate to retain one of said wheels against the trolley wire.

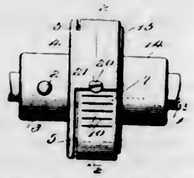
1,383,159. VARIABLE-SPEED-TRANSMISSION MECHANISM. DWIGHT C. SLATER, Essex Junction, Vt. Filed Sept. 9, 1920. Serial No. 409,151. 4 Claims. (Cl. 74—58.)



1. In a variable speed transmission, the combination with a drive and a driven shaft, of a plurality of gears secured upon the driven shaft and of progressively decreasing diameters, an inclined stationary shaft, a plurality of gears carried by said inclined shaft and of progressively increasing diameter and meshing with said first named

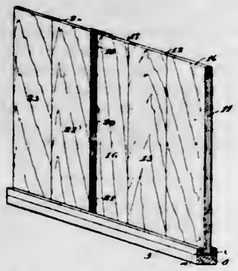
gears, means for mounting said second named gears upon said inclined shaft for free rotation thereon in the same planes as the first named gears, and means operated by said drive shaft for applying power to a selected one of said second named gears.

1,383,160. FLEXIBLE COUPLING FOR MAGNETOS. LEE H. SMITH, Sedan, Kans. Filed Dec. 14, 1920. Serial No. 430,614. 10 Claims. (Cl. 64—96.)



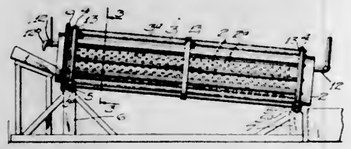
10. In combination, a shaft, an outer shell suitably slotted to provide a resilient inwardly pressing wing provided with a free end formed with a suitable number of inwardly projecting locking lugs, a second shaft, an inner shell nesting within the same and formed with a plurality of outwardly projecting resilient wings provided with a plurality of outwardly facing locking lugs, an independent ring arranged between said shell members and provided with spaced recesses for receiving said projections, and a locking screw attached to said outer shell member and arranged with respect to the free end of said inwardly projecting resilient wing so that the head of the screw will lie across the free end of the wing and prevent its outward displacement, said screw having a cut away portion so that upon the partial turning of the screw, said cut away portion will clear the end of the wing whereby said wing may be forced outwardly.

1,383,161. CONCRETE-FORM BOARD. CLAUDE E. SPALDING, Richmond, Calif. Filed May 28, 1920. Serial No. 384,984. 3 Claims. (Cl. 25—131.)



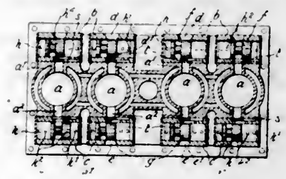
1. In a form, a sill, parallel members attached to said sill, a series of form-boards having beveled edges formed on said boards, and expansion means for keeping the beveled edges of said boards in contact one with the other and for allowing an easy extraction of said form-boards.

1,383,162. FISH SCALING AND WASHING MACHINE. NEWTON C. SPRAGUE, San Diego, Calif. Filed Sept. 30, 1920. Serial No. 413,661. 5 Claims. (Cl. 17—10.)



1. A fish scaling and washing machine, including a perforate cylindrical member, means for revolving said perforate cylindrical member, a perforate water pipe extending longitudinally in said perforate cylindrical member and a metallic offset member positioned in one side of said cylindrical member adapted to turn the fish with the revolution of said cylindrical member.

1,383,163. VALVE-GEAR FOR INTERNAL-COMBUSTION ENGINES. ANNIE SCOTT, West Kensington, London, England. Filed July 17, 1920. Serial No. 397,042. 4 Claims. (Cl. 123—59.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



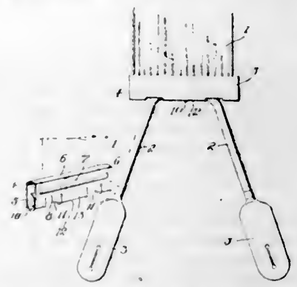
1. In a valve gear for internal combustion engines the combination of four working cylinders or multiples thereof with inlet and exhaust valves of the shuttle type the former operated entirely by compressed air and the latter operated partly by compressed air and exhaust gases from the working cylinder whose pistons act as distributers.

1,383,164. SUSPENDER CONNECTION. MARY STARMER, Newport News, Va. Filed Aug. 5, 1920. Serial No. 401,328. 3 Claims. (Cl. 241—19.)



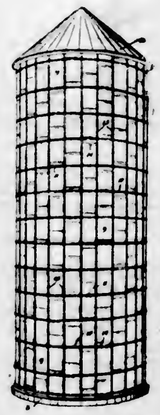
1. In a suspender connection the combination with an inverted U-shape guard having a panel formed with a slot, and forming an attaching bar, of a shoulder strap attached to said bar, a buckle retained within said guard, and hooks on said buckle, and perforated button-hole tabs suspended from said hook within the guard.

1,383,165. GARMENT-SUPPORTER. MARY STARMER, Newport News, Va. Filed Aug. 5, 1920. Serial No. 401,329. 2 Claims. (Cl. 241—19.)



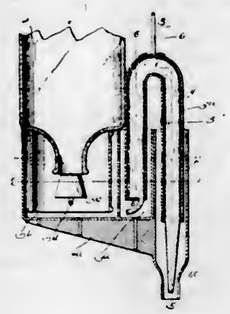
1. The combination with a shoulder strap, of a metallic buckle comprising a front plate and slotted bottom and rear plate forming a bridge bar, and a single piece button-hole tab passed through said slotted portions and suspended on said bridge bar.

1,383,166. MASONRY SILO. HENRY F. STEINKRAUS, Bertha, Minn., assignor of one-third to William P. Chase, Baker, Minn. Filed Feb. 11, 1918. Serial No. 216,474. 2 Claims. (Cl. 72—6.)



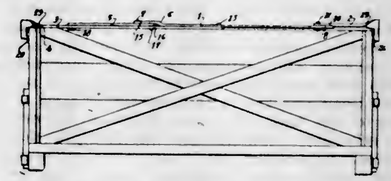
1. The combination with masonry slabs disposed to afford a substantially cylindrical wall structure, said slabs being rabbeted on both their outer and inner vertical adjoining edges and on the horizontal edges, outer and inner wooden joint strips interposed, respectively, in the outer and inner rabbets, contractible external hoops applied around the wall structure, and serving, when contracted, to draw said slabs into closer association and simultaneously to compress said outer and inner joint strips and wooden joint strips interposed in the horizontal rabbets on the outside of the slabs and held in place by the weight of said slabs.

1,383,167. OIL-FEED FOR WICKLESS OIL-BURNERS. CHARLES H. STENBERG, Radcliffe, Iowa. Filed June 23, 1920. Serial No. 391,038. 8 Claims. (Cl. 158—51.)



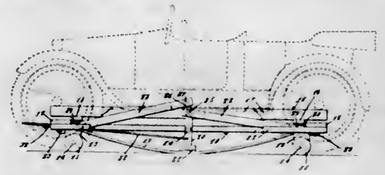
1. A device of the class described in combination with an oil burner, a feed pipe, an oil reservoir, a wick-siphon designed to draw oil from said reservoir and deposit said oil into said feed pipe, said wick-siphon being adjustably mounted, vertically, with relation to said reservoir, as and for the purpose stated.

1,383,168. END-GATE ROD. JOHN M. STEVENSON, Mason City, Iowa. Filed June 22, 1920. Serial No. 390,766. 2 Claims. (Cl. 296—52.)



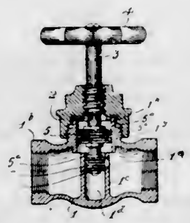
2. End gate rods of the class described comprising flat bars, hook members being carried by said bars, an operating lever, an offset member provided on one of said bars adjacent one end thereof, and having a rivet hole formed near one edge of same and the remaining end of said bar having a roughened surface with a slot formed therein, one of said hook members being provided with a roughened surface which engages the roughened surface provided on said bar and said hook being adjustably secured on one of said bars, a hook engaging part provided on the free end of said lever, said hook engaging the edge of one of said bars when same is in a closed position to prevent movement of parts, a nib being provided on each of said hooks for engaging the thimbles of the wagon, said operating lever having a curved formation to provide the locking means.

1,383,169. AUTO-LIFTER. JESSE B. STOAMS, Lockport, N. Y. Filed Apr. 5, 1920. Serial No. 371,323. 3 Claims. (Cl. 254—9.)



1. An automobile jack comprising a wheeled frame, a movable frame mounted thereon and provided with means to engage beneath the front axle and rear axle housing of an automobile, a downwardly bowed member having its ends connected to the movable frame, levers pivoted to the wheeled frame and adapted to move with respect thereto, a toggle joint, having connection with the levers and means for operating the toggle joint to move the levers and cause pressure to be exerted on the downwardly bowed member and to cause the toggle joint to raise the levers and movable frame.

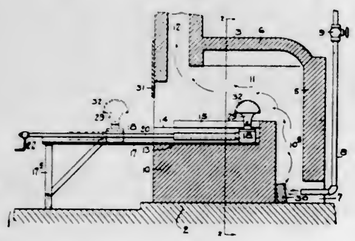
1,383,170. VALVE. IRA E. STUMP, Cleveland, Ohio. Filed Apr. 26, 1920. Serial No. 376,532. 10 Claims. (Cl. 251—23.)



9. A combined service and drain valve, comprising a valve body provided with supply and service branches

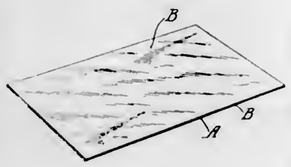
separated by a partition having a drain valve chamber intersected by drain ports communicating with the service branch and exterior of the valve body respectively, a main valve chamber arranged above said drain valve chamber and said partition, and a valve stem provided with main and drain valves operating in said main and drain valve chambers, respectively, said main valves being adapted to be seated on said partition and close communication between said supply and service branches, and said drain valve being arranged to open said drain ports to permit fluid to pass from said service branch to the exterior of the valve body when the main valve is fully closed, and to permit fluid to flow therethrough from both branch pipes when the main valve is between its fully closed and fully opened positions.

1,383,171. FIRE-POLISHING APPARATUS. CHARLES A. SUNDER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Sept. 18, 1919. Serial No. 324,644. 5 Claims. (Cl. 49—58.)



1. In apparatus for fire polishing glass ware, the combination with a heating chamber, of a refractory support extending within the heating chamber, having a groove formed therein, and a ware-support longitudinally movable in said groove.

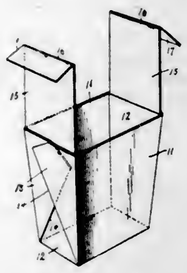
1,383,172. COMPOSITE METALLIC SHEET AND METHOD OF MAKING SAME. BERNARD J. SWEENEY, New York, N. Y., assignor to The Conley Foil Company, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1919. Serial No. 326,336. 4 Claims. (Cl. 29—189.)



1. A composite sheet for the making of impression molds for use in the manufacture of printing plates comprising a relatively thick sheet of lead adapted to receive the impression and a facing therefor comprising an exceedingly thin pellicle or film of a non-oxidizing metal united with the lead sheet.

1,383,173. PAPER RECEPTACLE. GERALD W. THROOP and JESS W. DUNDON, Erie, Pa. Filed Aug. 12, 1920. Serial No. 403,012. 1 Claim. (Cl. 229—16.)

A container of the class described formed of a single sheet of material foldable to form a rectangular receptacle open at the upper side, two opposite side walls of the receptacle having extensions foldable upon themselves



at their ends to form lifting ears, said extensions adapted to be overlapped over the open side of the receptacle.

1,383,174. RUST-PROOF PIANO-WIRE. MARVIN J. UDY and FRANK C. NICHOLSON, Kokomo, Ind., assignors to The Udylite Process Company, Kokomo, Ind., a Corporation of Indiana. Filed June 13, 1919. Serial No. 304,020. 12 Claims. (Cl. 204—1.)

12. The process of treating a piano wire to make it rust-proof, which consists in electroplating the wire with a thin coating of cadmium, then subjecting the wire to heat under conditions which cause the coating to alloy to the wire and to be outwardly oxidized and then polishing the wire.

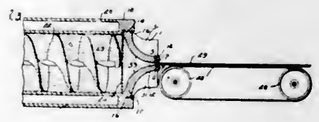
1,383,175. SPRING. MARVIN J. UDY and FRANK C. NICHOLSON, Kokomo, Ind., assignors to The Udylite Process Company, Kokomo, Ind., a Corporation of Indiana. Filed Oct. 23, 1919. Serial No. 332,795. 6 Claims. (Cl. 204—1.)

1. The process of protecting steel springs against rusting, which consists in coating the springs with cadmium and then subjecting the springs to heat to alloy the cadmium thereto.

1,383,176. EDGED TOOL. MARVIN J. UDY and FRANK C. NICHOLSON, Kokomo, Ind., assignors to The Udylite Process Company, Kokomo, Ind., a Corporation of Indiana. Filed Oct. 23, 1919. Serial No. 332,796. 7 Claims. (Cl. 204—1.)

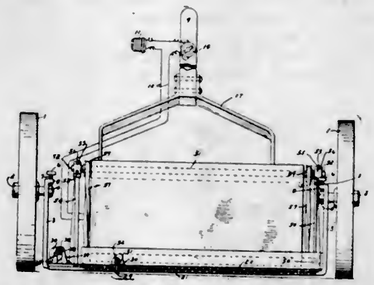
1. The process of protecting an edged steel article against rusting, which consists in coating the article with cadmium and then subjecting the coated article to heat to alloy the cadmium thereto.

1,383,177. DIE AND HEAD THEREFOR. HENRY L. VENN, Oak Park, Ill. Filed Apr. 25, 1921. Serial No. 464,155. 6 Claims. (Cl. 18—12.)



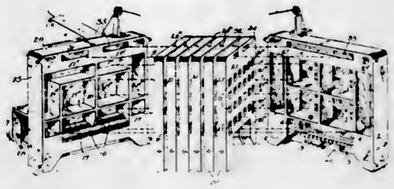
1. In apparatus of the class described, in combination, a head member, means for detachably securing a die member thereto, means for securing the head member to a casing containing a conveyer, and means for equalizing the heat radiation in the head member.

1,383,178. TRACTOR LAWN-CUTTER. WILLIAM E. VOGES, St. Louis, Mo. Filed Feb. 2, 1920. Serial No. 355,716. 6 Claims. (Cl. 56—25.)



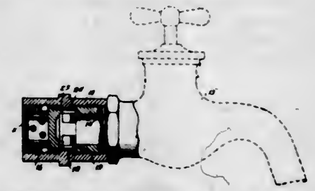
1. A tractor lawn-cutter, comprising a frame, a reciprocating-cutter mounted at the front of said frame, two ground-wheels which support the front end of said frame and hold said cutter at the desired height from the ground, means for adjusting the frame upon the said wheels, to regulate the height of the cutter above the ground, a motor and suitable connections mounted upon said frame, a traction device that supports the rear portion of the machine, means for driving said traction device by the power of said motor, means for driving said cutter by the power of said motor, and a handle connected to said frame and arranged to transfer more or less of the weight of the driver or operator to the said traction device, and whereby the said traction device may be lifted clear of the ground, to stop the machine without stopping said motor.

1,383,179. BOILER. WESTON F. WILLIAMS, Falls Church, Va. Filed July 17, 1919. Serial No. 311,642. 2 Claims. (Cl. 122—225.)



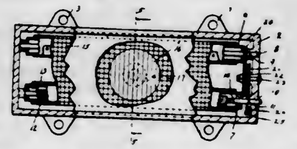
1. In a boiler of the unit section type, a front unit member, a back unit member and a series of intermediate sections having non-intercommunicating side wall faces arranged in abutting juxtaposition and provided in the outermost or lateral outermost edge faces and at the lower portion thereof with water inlet openings and having in the top faces a steam outlet, the said intermediate units being hollow and having series of horizontal rows of smoke passageways in which the gaseous products are caused to flow alternately in reverse directions in successively higher planes, the back unit having a pair of adjacent L-shaped pockets diverting the gas from the upper row of passageways in the intermediate units outwardly toward outer vertical rows of passageways, the gas flowing downwardly through the vertical legs of the L-shaped pockets in the rear unit and passing forwardly through certain of the passageways in the intermediate units into vertical lateral pockets in the front member which divert the gases downward to coördinate return pockets in the intermediate units, the back member having a collecting flue with an upstanding centrally arranged branch, the intermediate sections having in the upper portion alined series of passageways through one series of which the gas is directed from the centrally arranged branch and returned on the opposite side of the units, the front and rear unit members having hollow partition walls forming independent pockets or chambers on opposite sides of a central vertical partition.

1,383,180. SECONDARY VALVE. WALTER B. WOORE, New York, N. Y. Filed Apr. 26, 1920. Serial No. 376,756. 6 Claims. (Cl. 284—18.)



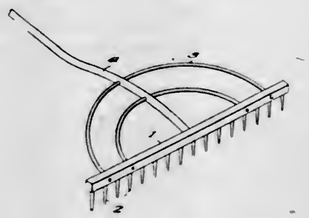
2. In a device of the class described, the combination of a conduit having two longitudinally spaced apart apertured partitions in the bore thereof, one of said partitions provided with a valve seat, and facing the other partition and facing in a direction opposite to the direction of flow through the conduit, a floating secondary valvular device including a valve element adapted to be moved by the pressure of the flow on to said seat to intercept the flow through the conduit, and extensions for guiding the valve element to and from its seat, said extensions projecting longitudinally from opposite sides of the valve element and slidably mounted in and extending through the apertures in said partitions and a second conduit inserted in the first named conduit and adapted to engage the adjacent extension to hold the valve element in spaced relation to its seat and thus permit a flow past the seat, both of said extensions provided with openings for permitting the flow to pass through the same.

1,383,181. DIRECTION-INDICATOR FOR MOTOR-DRIVEN VEHICLES. OTTO O. ADAMS, Los Angeles, Calif. Filed Oct. 13, 1919. Serial No. 330,423. 2 Claims. (Cl. 116—36.)



1. A direction indicator for automobiles comprising a casing attachable to a suitable part of the vehicle so as to be clearly removable from the rear thereof; a spring roller mounted in the casing, a companion roller also in the casing, a curtain connecting the rollers and normally wound on the spring roller, portions of said curtain being translucent in order to form signaling indicia; and mechanism operable manually to turn the companion roller against the spring roller action, said mechanism including a flexible device attachable selectively to one of a series of stationary supports so as to hold the curtain to display a desired part thereof.

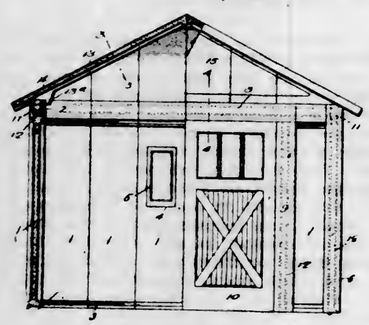
1,383,182. REINFORCED BOW FOR RAKES. GEORGE E. ALEXANDER and RALPH W. ALEXANDER, Newport, N. H. Filed July 31, 1918. Serial No. 247,586. 1 Claim. (Cl. 55—10.)



The combination with a rake head having a handle secured thereto; of a bow therefor composed of a sub-

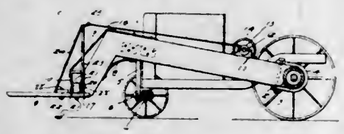
stantially semi-circular, tubiform, metal member having a reinforcing core completely filling said member and extending throughout the entire length thereof, said reinforced bow extending through said handle and having its ends extending through said head, said core avoiding breakage or distortion of the bow throughout its length and at its connection with the handle and the head.

1,383,183. CONCRETE BUILDING STRUCTURE. CHARLES J. ASCHAUER, Decatur, Ill. Filed Aug. 25, 1916. Serial No. 116,838. 2 Claims. (Cl. 72—1.)



1. A building structure composed of concrete slabs, each of said slabs being a solid unit of sufficient thickness and strength to serve as a weight bearing member, and having an integral top channel, said slabs being erected vertically to form the walls of the building, hollow posts located at the corners of the building and having an integral top channel which is in communication with the interior of the posts, the channels of the slabs and of the posts registering and forming a continuous channel extending entirely around the building and down through the corner posts, the top of the slab being increased in thickness to produce a head or enlargement in which the channel is made, and the ends of the slabs having laterally disposed strengthening flanges, the flanged ends of adjacent slabs abutting, and a binder filling said channel and the interior of the corner posts.

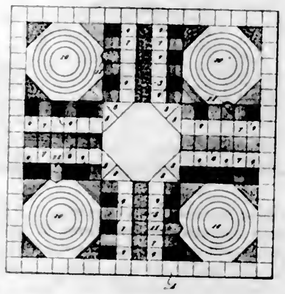
1,383,184. TRACTOR PUSH-RAKE. CHARLES M. BORLAND, Echo, Oreg., assignor of one-half to Alfred Haitt, Echo, Oreg. Filed May 14, 1920. Serial No. 381,393. 4 Claims. (Cl. 56—27.)



1. A push rake attachment comprising beams which are approximately L-shape in side elevation, bearings provided at one end of the beams for receiving the axle of the tractor, a yoke connecting the beams together and adapted to be pivotally connected with the forward axle of the tractor, a cradle mounted upon the beams and means mounted upon the beams for swinging the cradle.

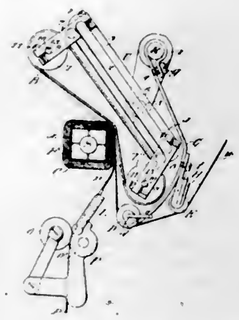
1,383,185. GAME-BOARD. LYMAN BOYD, Canton, Ohio. Filed Mar. 27, 1920. Serial No. 369,303. 1 Claim. (Cl. 46—63.)

A game board having a rectangular track around its edges, said track being divided into squares upon which different colored pieces of a plurality of players are adapted to be moved, a square area within each corner of said track, for the retention of pieces of one player, waiting to be put into play, a diamond field at the center of the board forming a common goal for the pieces, a home stretch extending from the center of each side of the rectangular track to the adjacent corner of the diamond, each home stretch being of the same color as the pieces of one player, and forming a path from the rectangular track to the goal for the pieces of the same color, a turn out track extending along the two inner



sides of each square retention area and connecting at its outer ends with two adjacent sides of the rectangular track; said turn out being divided into squares similar to the squares in the rectangular track, triangles being in each turn out adjacent to the goal, safety zones beside certain squares in the turn outs and a starting square, connecting each retention area with the adjacent turn out, said starting squares being colored to correspond with the pieces in the adjoining retention area.

1,383,186. WINDING APPARATUS. CARL A. BRINK, Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed July 13, 1918. Serial No. 244,788. 15 Claims. (Cl. 242—10.)

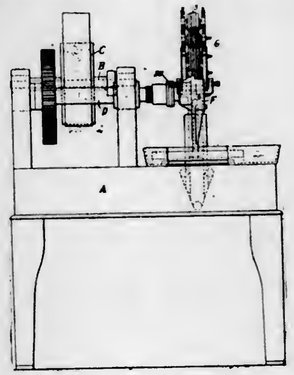


1. In an apparatus for winding electrical coils or the like, the combination with a winding-mandrel, of means to traverse wire or other strands of conductor back and forth on the mandrel to build up a coil, and a flexible band arranged to bear against the surface of the coil wound on the mandrel and to conform to the contour thereof to press the windings into place and flatten the layers against each other.

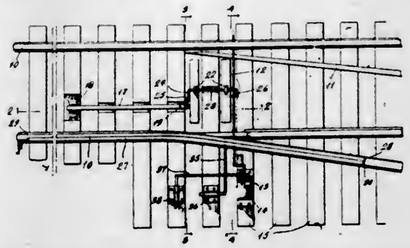
1,383,187. APPARATUS FOR MAKING TUBES. LOUIS H. BRINKMAN, Glen Ridge, WILLIAM H. FULTON, Irvington, and HERMAN SHELLMER, Newark, N. J., assignors to Titeflex Metal Hose Corporation, a Corporation of New York. Filed Mar. 8, 1917. Serial No. 153,263. 11 Claims. (Cl. 113—35.)

1. In apparatus for forming a tube from a strip, the combination with a stationary die having channels bending the strip transversely for interfolding the edges of adjacent convolutions, the parts of said die being relatively

stationary, of a rotating mandrel, about which the strip is coiled, centrally arranged within the die and a preliminary former comprising rolls initiating the bends in the strip section.

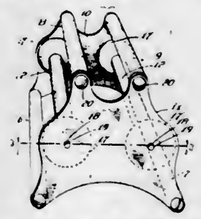


1,383,188. RAILWAY-SWITCH. NORMAN W. CHAFFIN, Burnwell, W. Va. Filed Sept. 22, 1920. Serial No. 412,040. 4 Claims. (Cl. 246—315.)



1. A railway switch mechanism having switch rails and means for yieldingly holding the same in their closed position, a rock shaft operatively connected with the switch rails, a vertically movable tread rail disposed in parallelism with the track rails in an upwardly and forwardly inclined position and operatively connected with said rock shaft, said tread rail being yieldingly held in its normal position and being depressible by a car or train carried actuator, a locking means for holding the switch rails in their opened position, and a retaining rail disposed in parallelism with said adjacent portions of the main track and switch rails and depressible by the weight of wheels traversing said rails, said retaining rail being operatively connected with said locking devices.

1,383,189. SHOE-POLISHING DEVICE. HERBERT C. COY, Chicago, Ill., assignor to Vulcan Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1920. Serial No. 359,548. 1 Claim. (Cl. 15—58.)



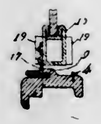
In a shoe-polishing device, a base having a set of lower parallel rods coated with rubber, a set of upper parallel rods coated with rubber, end pieces in fixed relation to both sets of said parallel rods and a plurality of rollers rotatably mounted in said end pieces.

1,383,190. TIRE. DEMETREOS J. DEMAS, Pittsburgh, Pa. Filed May 29, 1920. Serial No. 385,280. 2 Claims. (Cl. 152—18.)



1. In a tire, the combination with a carcass formed of a plurality of layers of fabric and an outer covering of rubber, of an armor arranged between the carcass and the rubber covering, said armor consisting of a plurality of circumferential, spaced cords, a second series of circumferential cords of smaller size arranged alternately therewith, and transverse cords interwoven with said circumferential cords.

1,383,191. WINDSHIELD. FREDERICK A. DILLINGHAM, Troy, Ohio, assignor to The Troy Carriage Sun Shade Company, Troy, Ohio, a Corporation of Ohio. Filed May 15, 1920. Serial No. 381,610. 8 Claims. (Cl. 296—93.)

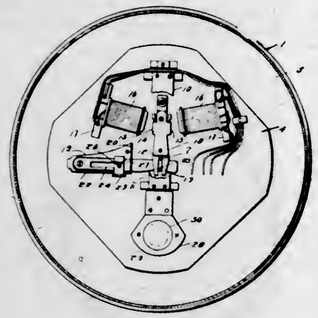


1. In a windshield, the combination with upper and lower shield sections, of side frame pieces, means interacting between the shield sections and the side frame pieces for forming abutment joints of the sections with the side frame pieces, with the abutment joint for the upper shield section terminating at its lower edge at a point located outwardly from the abutment joint for the lower shield section, whereby the water collected at the joint of the upper shield section will not flow into the joint of the lower shield section.

1,383,192. DIRECTION-INDICATOR. WILLIAM F. DORRIDA, Baltimore, Md., assignor of one-half to Charles S. Sutherland, Baltimore, Md. Filed Nov. 12, 1919. Serial No. 337,441. 2 Claims. (Cl. 177—327.)

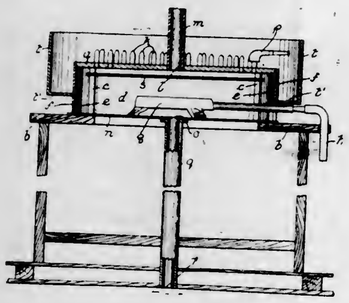
2. A direction indicator comprising a casing, a supporting element in said casing, a shaft journaled in said supporting element, a crank formed on said shaft, an indicator secured to said shaft, an operating lever pivoted to the supporting element above the shaft and having its lower end bifurcated to receive the crank, electromagnets carried by the supporting element and arranged on

opposite sides of the operating lever and below its pivot, an armature plate secured to the operating lever and



extending to a point adjacent its bifurcation, lateral wings formed on said plate and disposed on each side of the operating lever adjacent the magnets.

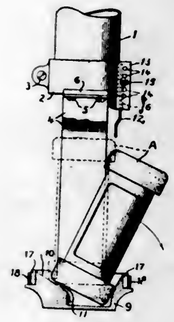
1,383,193. APPARATUS FOR SEASONING AND FINISHING TOBACCO-PIPES. ALFRED DUNHILL, London, England. Filed Oct. 23, 1919. Serial No. 332,821. 7 Claims. (Cl. 34—26.)



2. Apparatus for seasoning, finishing or treating tobacco pipes, comprising in combination, an inclosed chamber at least one heating unit located within said chamber, a hot plate constituting the top of said chamber, a series of plugs fixed to and extending upwardly from the top of said hot plate and shaped to receive the bowl of a tobacco pipe, means within said chamber and between said heating unit and said hot plate for causing the heat to be uniformly distributed over the under surface of said plate, and means for admitting air to the bottom of said chamber for the purposes set forth.

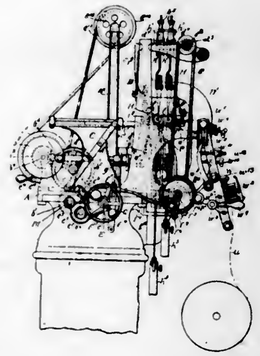
1,383,194. CARRIER-SELECTING DEVICE FOR PNEUMATIC-DESPATCH-TUBE APPARATUS. ALF ENGEBRETSEN, Chicago, Ill., assignor to Joseph Rose, Chicago, Ill. Filed Mar. 20, 1920. Serial No. 367,485. 14 Claims. (Cl. 243—24.)

1. In pneumatic despatch tube apparatus, the combination of a transmission tube for carriers; a receiver to which the carriers are delivered by said tube; means for causing each carrier delivered to said receiver to topple over toward one side of said receiver; and means for caus-



ing certain of the carriers when so toppled, to be engaged and caused to topple back in another direction.

1,383,195. MACHINE FOR OPERATING UPON WARP-THREADS. MILLARD F. FIELD, Winthrop, and CHARLES D. LANNING and EDGAR F. HATHAWAY, Boston, Mass., and FREDERICK C. BLANCHARD, Fort Wayne, Ind., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 6, 1903. Serial No. 142,251. 48 Claims. (Cl. 139—94.)



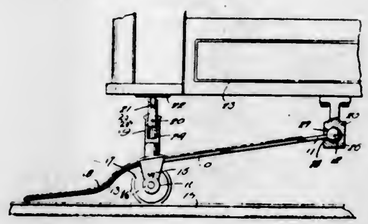
2. In a warp-drawing machine, embodying a drawing-in device, a traversing carriage supporting the same, means to support loom harnesses to move longitudinally, and mechanism which engages the respective harnesses and automatically and positively moves each independently of the others, parallel with the movement of the traversing carriage and differentially thereto, for the purpose specified.

48. The combination of a warp thread carriage, a carriage having a warp worm and a drawing-in needle, to act sequentially upon the warp threads, a main driving power shaft connected to move both said carriages with a differential, progressive movement, and means to impart compensating, manual movement to the warp thread carriage.

1,383,196. CAR-FENDER. CARL O. FIRST, Meadville, Pa. Filed Sept. 30, 1920. Serial No. 413,701. 2 Claims. (Cl. 293—43.)

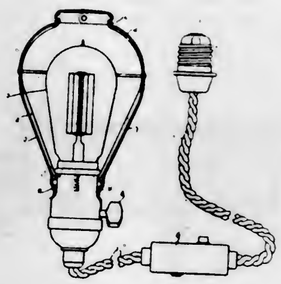
1. An apparatus of the class described comprising a frame including spaced side members inclined upwardly

and rearwardly converging to the rear and adapted to be swingingly attached at the converging portion to a car body, track engaging wheels connected to said frame, a plurality of continuous slats connected to said frame and



extending longitudinally thereof, a standard carrying a bearing wheel adapted to engage the under face of the car body, and means for yieldably supporting said standard from the frame.

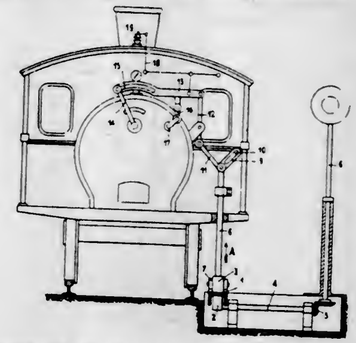
1,383,197. BED-WARMER. JOHN RANDOLPH FLETCHER, Dayton, Ohio. Filed Jan. 16, 1920. Serial No. 351,746. 1 Claim. (Cl. 219—45.)



In an electrical warmer, the combination of a lamp having a thumb switch and provided with a lamp guard of framework sufficiently open not to interfere seriously with the light from the lamp, and a non-metallic, non-heat-absorbing fabric arranged about said guard and lamp but terminating short of the thumb switch to cover parts that become heated from said lamp, a cut out whereby the lamp user may cut off the current at a distance without reaching for the lamp, the lamp guard having indentations at both ends whereby cords may be passed around said fabric and hold it securely to the guard.

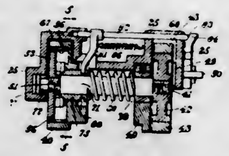
1,383,198. DEVICE FOR AUTOMATICALLY STOPPING TRAINS. ADOLF FRITZ, Magdeburg, Germany. Filed Nov. 23, 1920. Serial No. 426,083. 1 Claim. (Cl. 246—186.)

In a device for automatically stopping a train when running past a signal, an upright rod (8) carried by the locomotive, an arm (11) connected to said rod, a lever (12) influenced by said arm, a slotted bar (13) connected to said lever, said slotted arm simultaneously engaging the lever (14) for turning off the steam and also a lever



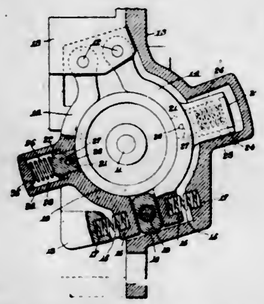
(16) operating the brake-valve (17) for admitting air to the brakes, substantially as set forth.

1,383,199. SPEED-CONTROLLING MECHANISM FOR LOAD-LIFTING DEVICES. FRANK L. GORMLEY, Brookline, Mass. Filed July 6, 1920. Serial No. 394,358. 10 Claims. (Cl. 188—184.)



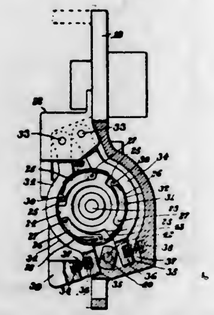
1. In a device of the class described, the combination with a movable load-supporting member having a revoluble shaft; means for rotating said shaft at a high speed only during the lowering of said load-supporting member, a fixed cylinder; a disk therein rotatable with said shaft; a slidable friction shoe on said disk; and a manually controlled movable member for forcing said shoe into contact with said fixed cylinder.

1,383,200. BRAKING MEANS FOR LOAD-LIFTING DEVICES. FRANK L. GORMLEY, Brookline, Mass. Filed July 22, 1920. Serial No. 398,115. 16 Claims. (Cl. 188—75.)



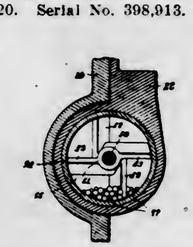
1. A revoluble brake wheel; a brake arm coacting therewith; a device for moving said brake arm from said brake wheel; and means operable by the outward movement of said arm moving device for maintaining a friction on said brake wheel after said brake arm has been removed therefrom.

1,383,201. BRAKE MECHANISM FOR LIFTING-JACKS AND THE LIKE. FRANK L. GORMLEY, Brookline, Mass. Filed July 22, 1920. Serial No. 398,116. 8 Claims. (Cl. 188—82.)



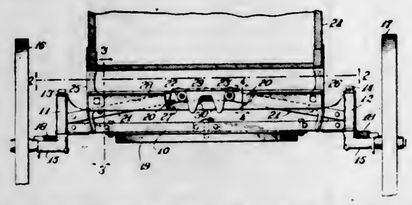
1. The combination of a revoluble brake wheel; brake arms normally coacting therewith; means for separating said arms from said wheel; and speed-retarding members carried by said wheel and movable outwardly into contact with said arms when removed from the wheel.

1,383,202. DEVICE FOR RETARDING THE SPEED OF LOWERING OF SELF-RUN-DOWN LIFTING-JACKS. FRANK L. GORMLEY, Brookline, Mass. Filed July 26, 1920. Serial No. 398,913. 14 Claims. (Cl. 188—101.)



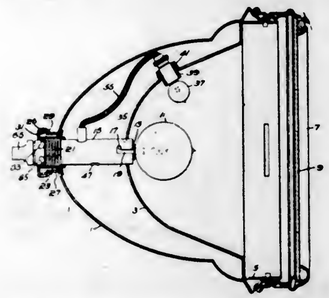
1. In a device of the class described, a revoluble shaft; a member revoluble therewith provided with a plurality of inclined blades; a cylindrical casing for said revoluble member; and movable means in said casing coacting with said blades to retard the speed of said shaft.

1,383,203. BOLSTER FOR VEHICLES. SHERMAN C. HARTSOCK, Moline, Ill., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill., a Corporation of Illinois. Filed Aug. 30, 1920. Serial No. 406,878. 16 Claims. (Cl. 280—111.)



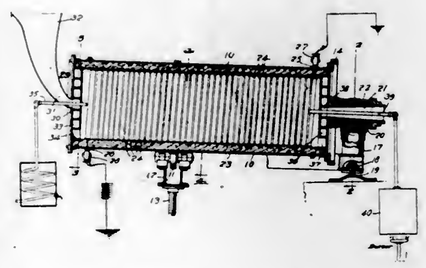
1. In combination, a vehicle, a bolster carried thereby, an axle comprising two members one over the other rigidly connected together at their ends, the upper member being upwardly bowed and unconnected at its central portion with the lower member, said bolster having a laterally-shiftable bearing upon said upper axle member, and rigid means deepnding from the vehicle body near each side thereof and straddling said axle.

1,383,204. LAMP. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Aug. 27, 1915. Serial No. 47,573. 7 Claims. (Cl. 240—41.)



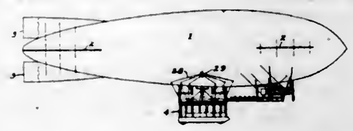
1. In a lamp, a casing, a reflector within the casing, a non-circular aperture in the reflector, a member fitting said aperture and extending between the reflector and the casing, a sleeve mounted in said casing and having screw engagement with said member, a primary light carried by said member, a secondary light within the reflector, electrical connections for the latter light disposed between the reflector and casing and connected with said member, a switch member carried by said member exteriorly of the casing and rotatable about an axis substantially alined with the longitudinal axis of said member selectively to control circuits to said lights.

1,383,205. APPARATUS FOR DISTILLING KEROGEN SHALE. EDWARD E. HEDGES, New York, N. Y. Filed Nov. 10, 1920. Serial No. 423,073. 8 Claims. (Cl. 196—19.)



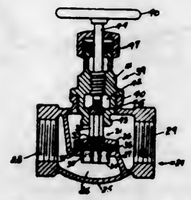
1. A distilling apparatus comprising an inclined rotating retort, means to introduce material into the retort at the axis, and a volute feeding conduit within the retort receiving the material at the axis and discharging it at the periphery.

1,383,206. BALLOON. JOSEPH HENRA, Brooklyn, N. Y. Filed Mar. 11, 1920. Serial No. 364,976. 11 Claims. (Cl. 244—6.)



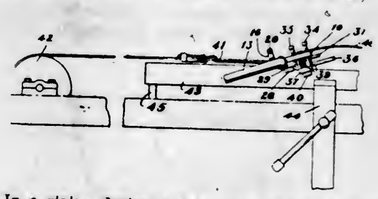
1. A device of the character described comprising a balloon or the like, a car suporting element, a car suspended from said balloon by the supporting element, cables for stabilizing the car against tilting, and means for automatically and positively varying the effective length of said cables between the balloon and car as necessary to maintain the car substantially level.

1,383,207. COMBINATION CHECK AND CUT-OFF VALVE. GEORGE A. HIDDEN, Coronado, Calif. Filed Apr. 21, 1919. Serial No. 291,742. 1 Claim. (Cl. 251—160.)



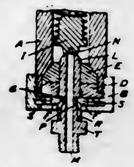
A combination check and cut-off valve including a casing provided with an inlet and an outlet, a partition in said casing between said inlet and said outlet, said partition being provided with an opening, a check valve including a threaded shank, a stem extending from one end of said shank, a head extending from the other end of said shank and slidably mounted in the opening in said partition, a bearing in said casing in which said stem is slidably mounted, said head being fluted to allow the liquid to flow through said opening when the check valve is raised, a gasket on said shank resting on said head and adapted to rest on said partition and close said opening, and a plate screwing on said shank against said gasket, said bearing adapted to engage said plate to limit the opening movement of the valve, and a stem screw seated in said casing for engaging the end of said stem to hold the valve positively closed.

1,383,208. RIVING DEVICE. LYLE H. HOLLAND, Peterboro, N. H., assignor to Eastern States Package Co., Buffalo, N. Y., a Corporation. Filed Aug. 26, 1919. Serial No. 319,973. 2 Claims. (Cl. 144—182.)



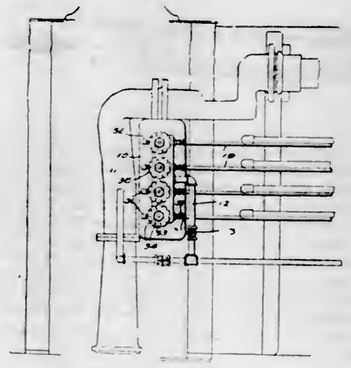
1. In a riving device, a base plate having a groove in its under side extending from the forward to the rear edge thereof, a primary cutting blade adjustabzly secured to the under side of the base plate, a secondary cutting blade adjustably secured beneath the base plate in spaced relation to the primary cutting blade and slightly in the rear of the forward cutting edge of the primary blade and a curl preventing shield associated with the base plate.

1,383,209. COUPLING. WILLIAM CARL IFTIGER, Watts, Calif. Filed July 30, 1919. Serial No. 314,344. 8 Claims. (Cl. 284—18.)



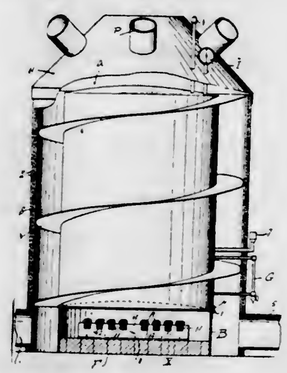
1. A coupling including a male member and a female member, means for locking the male member partly within the female member against withdrawal from the female member, and means for holding said locking means out of operation upon axially introducing said male member farther into said female member to withdraw axially said male member from said female member.

1,383,210. FLUE-BLOWER. ROBERT EDWARD JACKSON and EDWIN MILTON JENKINS, Princeton, W. Va. Filed Sept. 2, 1919. Serial No. 321,125. 2 Claims. (Cl. 122—391.)



1. In a flue blower in combination with a boiler provided with flues, a manifold secured to the outer wall of the boiler and connected with a suitable force of fluid pressure supply, a plurality of chambers formed within said manifold and provided upon their inner ends with flanges, tubular casings secured to said flanges and provided with outlets adapted to project for a short distance into the flues of the boiler, journals formed in the wall of said manifold rotatable shafts mounted in said journals, spiders secured to said shafts, a valve within each of said casings and secured to said spiders and means for controlling the admission of fluid pressure to each of said chambers.

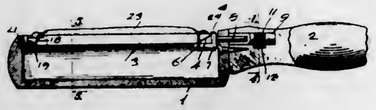
1,383,211. HEAT PRODUCING AND DISTRIBUTING ELEMENT. CHARLES E. JOHNSTON and ANDREW JAVER JORGENSON, Vancouver, British Columbia, Canada. Filed Apr. 28, 1920. Serial No. 377,348. 8 Claims. (Cl. 219—34.)



1. A device of the class described comprising, in combination, a hollow base, a boiler mounted thereon, a casing surrounding the base and boiler and spaced therefrom, a

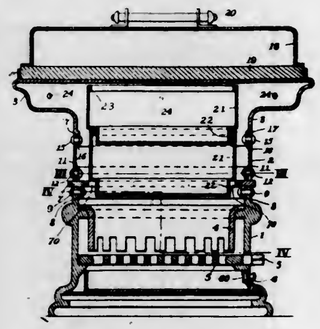
hood mounted upon the casing and overlying the boiler, said hood having distributing means in communication therewith, and an electrical heating medium arranged within the base.

1,383,212. LUBRICATING DEVICE. LOUIS JORDEN, San Francisco, Calif. Filed Mar. 22, 1921. Serial No. 454,503. 10 Claims. (Cl. 184—1.)



9. A lubricating device for saws and the like comprising a housing; a lubricant retainer rotatably mounted within the housing and arranged to detachably engage a lubricant such as a strip of fat; a handle extending from one end of the housing; a pinion rotatably mounted within said handle and arranged to detachably engage said retainer; a rack operatively connected to the pinion and arranged to rotate the same; and an arm pivotally mounted upon the handle and operatively connected to the rack whereby said pinion may be actuated to rotate the retainer and expose the lubricant side of said retainer outside of the housing.

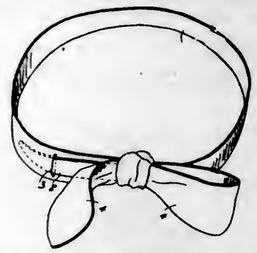
1,383,213. COOKING-STOVE. THEODORE KAUFER, New York, N. Y., assignor to Kaufer Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed June 18, 1919, Serial No. 304,982. Renewed Dec. 4, 1920. Serial No. 428,379. 3 Claims. (Cl. 126—1.)



1. A portable cooking stove comprising an outer casing, a fire pot therein, a griddle on top of the casing, there being restricted outlets for the products of combustion in the side walls of the casing spaced below the top thereof, said walls being otherwise imperforate, whereby a layer of hot air is retained below the griddle and a removable drum-shaped cover for said griddle.

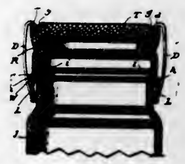
1,383,214. BOW AND NECKTIE. GORDON ALEXANDER ALLAN KING, London, England. Filed May 8, 1920. Serial No. 379,891. 1 Claim. (Cl. 2—82.)

A necktie of the kind described, having one end tapered or narrowed substantially to a point and stiffened, and having a slit at a suitable point in its length so that when the other end of the tie has been manipulated into the form of a bow having one end of double thickness and the other end of a single thickness of material in the known manner, the tapered or narrowed end may be



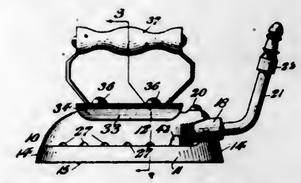
inserted in the slit and pushed between the collar and the portion of the tie passing around same, substantially as and for the purposes described.

1,383,215. JAR-CLOSURE. JOHN L. KIVLAN, Boston, Mass. Filed Mar. 7, 1919. Serial No. 281,307. 6 Claims. (Cl. 215—86.)



2. A jar closure comprising in combination, a cover having a peripheral ridge defined by an interior circular groove, diametrically opposed toggle joint levers having down turned nibs on one member to engage said groove within said ridge and an annular wire pivoting and frictionally securing said toggles to the neck of the jar.

1,383,216. GAS-IRON. HARRY A. KOENIG, Philadelphia, Pa. Filed Apr. 8, 1919. Serial No. 288,486. 7 Claims. (Cl. 158—23.1.)



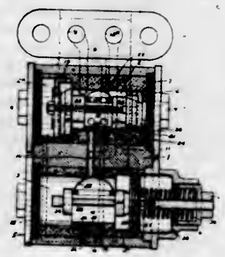
1. In a gas iron, the combination of a body provided with a series of air inlets in close proximity to the bottom of said body and two series of vents in the top, a burner, and means arranged to form two longitudinally disposed channels across the top of said body in vertical alinement with said series of vents respectively.

1,383,217. COMBINATION-CALIPERS. JOSEPH KONZ, Olympia, Wash. Filed July 29, 1919. Serial No. 314,108. 1 Claim. (Cl. 33—152.)



In a tool of the class described, a pair of pivoted legs, each leg having outwardly and oppositely directed feet at its free end, each leg being provided with a longitudinal groove in one face, a pointer slidably mounted in said groove and having a point adapted to be extended past the end of the leg and between the oppositely directed feet thereof, and means for securing the pointer in adjusted position.

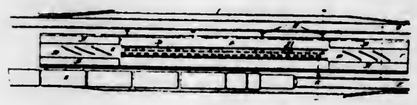
1,383,218. REGULATING-VALVE FOR AIR-BRAKE SYSTEMS. LOUIS J. H. KRUSE, Fort Wayne, Ind. Filed Nov. 4, 1919. Serial No. 335,603. 4 Claims. (Cl. 50—11.)



1. A regulating valve for air brake systems comprising two communicating chambers, a slide valve to control the said communication, means within one of the chambers for actuating the valve, said chamber having two communications with the main reservoir of the system for supplying air under pressure to the chamber for operating said means in opposite directions, a slide valve within the other chamber for controlling one of the communications between the first named chamber and the main reservoir, and means within said other chamber responsive to the pressure of the air in the train line of the system for actuating the latter valve.

1,383,219. [WITHDRAWN.]

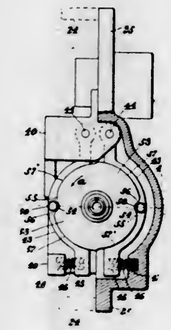
1,383,220. PASSENGER AND FREIGHT TRANSFER SYSTEM. WILLIAM P. LAMAR, Atlanta, Ga. Filed Feb. 25, 1918, Serial No. 219,089. Renewed Apr. 12, 1921. Serial No. 460,660. 10 Claims. (Cl. 104—20.)



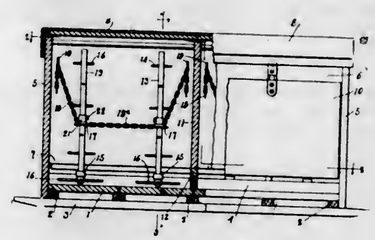
1. In a transfer system of the class described, a trackway, a car adapted to be transferred to a vehicle moving along said trackway, means for accelerating said car, and means for transferring said car to said vehicle, said means including a curved rail member, and a member adapted to engage the same, one of said members being secured to said trackway and the other being secured to said vehicle.

1,383,221. RETARDING MECHANISM FOR LIFTING-JACKS. WALTER E. LOMBARD, Arlington, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed Aug. 3, 1920. Serial No. 401,069. 15 Claims. (Cl. 188—184.)

1. The combination with a lifting jack having a worm shaft adapted to be driven in either direction; a brake wheel loosely mounted on said worm shaft; a member revoluble with said worm shaft; a one-way driving connection between said brake wheel and said member; and a braking member adapted to coact with said wheel.



1,383,222. MECHANICAL STOCK-FEEDER. WILLIAM R. LUKENS and CHARLES F. GALLAGHER, Hillsboro, Ohio, assignors of one-fifth to Allen T. Pence, one-fifth to A. B. Simpson, one-tenth to Joseph Gavey, one-tenth to E. F. Stevens, one-fifth to Wm. R. Lukens, and one-fifth to Robert B. McMullen, Hillsboro, Ohio. Filed Oct. 3, 1919. Serial No. 328,200. 6 Claims. (Cl. 119—54.)

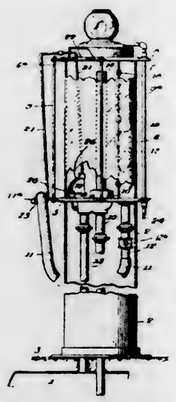


1. In a mechanical feeder for stock, the combination with a hopper and a trough communicating therewith, of an agitator and a movable base therefor suspended to swing freely in the hopper in every direction, said agitator passing through said base and being capable of being reciprocated and rotated with respect thereto.

1,383,223. VISIBLE-MEASURE DISPENSING APPARATUS. ANGUS MCKELLAR, Salt Lake City, Utah. Filed Nov. 18, 1919. Serial No. 338,799. 8 Claims. (Cl. 221—100.)

1. In a liquid dispensing apparatus, a dispensing receptacle, including in its lower portion a base member having formed therein an intake pipe opening extending upwardly from the lower face of said base member and communicating with said receptacle, an independent discharge pipe opening, an upper overflow pipe opening, a lower return pipe opening, an upper drain valve opening in un-

obstructed communication with said return pipe opening, and a constantly open communicating passage way formed

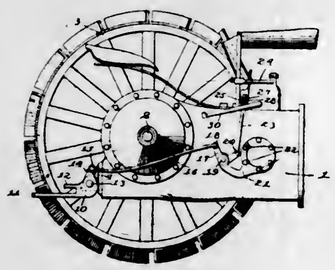


within said base member and providing a conduit between said upper overflow pipe opening and said lower return pipe opening.

1,383,224. PROCESS OF MAKING SODIUM HYPOCHLORITE. JOHN R. MACMILLAN, Niagara Falls, N. Y., assignor to Niagara Alkali Company, Niagara Falls, N. Y., a Corporation of New York. Filed July 29, 1920. Serial No. 399,763. 1 Claim. (Cl. 23—13.)

In the manufacture of sodium hypochlorite solution, the process which comprises leading chlorin into a mixture of lime and sodium carbonate solution, and separating the calcium carbonate produced from the resultant hypochlorite solution.

1,383,225. ATTACHMENT FOR TRACTORS. FRANK E. MEKAN, Dexter, Mo. Filed Sept. 27, 1920. Serial No. 413,018. 3 Claims. (Cl. 180—82.)



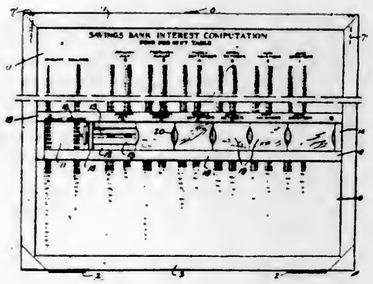
1. In a motor propelled tractor having a frame, power transmitting mechanism between the motor and driving wheels, a clutch in said transmitting mechanism and means for controlling said clutch; a coupling device pivotally mounted on said frame, a rod adjacent to said means having a roller adjustably mounted thereon for engaging said means and actuating said clutch, and connections from said coupling device to said rod for actuating said rod in accordance with the movements of the coupling device relatively to said frame.

1,383,226. TOOL. GEORGE W. MOAD, Soldier, Iowa. Filed Jan. 14, 1919. Serial No. 271,029. 1 Claim. (Cl. 72—136.)



A tool of the class described comprising a flat strip constructed of wood, a cylindrical handle being secured to one face thereof, a block arranged on the opposite end of said flat strip and having its upper face having ends inclined in opposite directions, the edges at the inclined ends having recesses to provide finger holds, a metallic strip being secured to each side edge of said flat strip and the former being of the same width as the thickness of the board, means for securing said strips to the flat strip, the ends of said tool having recesses formed therein at the edges thereof, the ends of said metallic strip being bent at right angles and extending into said recesses, and means for securing said strips in the recesses.

1,383,227. SAVINGS-BANK INTEREST-INDICATOR. HARRY S. MOIR, Chico, Calif. Filed May 25, 1920. Serial No. 384,037. 3 Claims. (Cl. 235—89.)



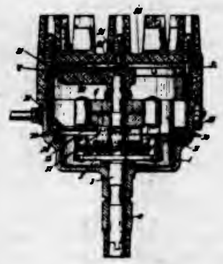
1. A savings account interest sheet comprising a pair of parallel amount dollars columns of numerals, the numerals of one column being differentiated from the numerals of the other column and the numerals of said columns being in horizontal line, a plurality of parallel differentiated numeral columns parallel with said pair of columns, the numerals of the plural columns being in horizontal plane with each other and with the numermerals of the pair of columns, the plural columns alternating with each other in differentiating numerals, said plural columns having the names of the months of a year assembled at the head thereof, and a vertically movable slotted holder including a plurality of transversely movable gates, one gate adapted to serve as an indicator within the slot of said holder, said gates being adapted to be moved from one of the months columns to another according to the date of deposits and to provide for adjusting the indicator according to the amount.

1,383,228. ROADWAY. STUART B. MOORE, Houston, Tex. Filed Mar. 23, 1920. Serial No. 368,067. 6 Claims. (Cl. 238—5.)



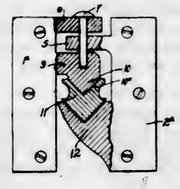
1. In a roadway, a vehicle wheel way comprising rails of hard material such as cement, and asphaltic concrete covering said rails.

1,383,229. IGNITION APPARATUS. WILLIAM B. MOSES, Watertown, Mass., assignor to Gray & Davis Inc., Cambridge, Mass. Filed Apr. 8, 1918. Serial No. 227,184. 16 Claims. (Cl. 200—22.)



9. In ignition apparatus for internal combustion engines, in combination, a contact set comprising a fixed and a movable contact, a rotatable shaft, movable-contact actuating means carried by said shaft comprising spaced variable length actuator portions, and speed responsive means for varying the length of said actuator portions to decrease or increase the distance between them.

1,383,230. HINGE. CHARLES G. MURPHY, Trafford, Pa. Filed Aug. 28, 1920. Serial No. 406,561. 2 Claims. (Cl. 16—106.)



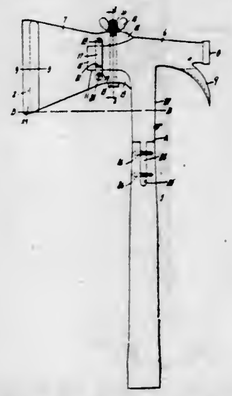
1. In a hinge, two leaves provided with overlapping lugs having alined apertures, a pin fitting through said lugs, opposed and alined socket members carried by said leaves, and a pivot member positioned between and fitting into said socket members.

1,383,231. FAUCET. CARL A. NELSON, Moline, Ill. Filed May 27, 1919. Serial No. 300,033. 2 Claims. (Cl. 251—106.)



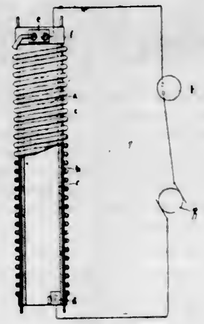
1. In a device of the class described, a casing provided with a plurality of inlet ports and an outlet port, a valve member having a port therein proportioned to communicate with all of the ports at one time and to vary the relative proportion of fluid admitted through the inlet ports, an indicating device having a fixed relation to the valve member and the port thereof, and means coöperating with the indicating device and including yoke elements constructed to fit the casing in a predetermined position with reference to the ports thereof, whereby the relative position of the valve port and the remaining ports is controlled.

1,383,232. COMBINATION HAMMER AND HATCHET. STUART NOSEWORTHY, Cambridge, Mass. Filed Apr. 28, 1920. Serial No. 377,283. 2 Claims. (Cl. 145—3.)



2. A hammer, a handle therefor, an end on said hammer extending transversely of said handle, a hatchet blade provided with a slot in which said end is adapted to fit, said slot being located between two jaws on said hatchet blade and a bolt extending through said jaws and through said end of said hammer and fastening them together, and a pair of oppositely disposed links, each of said links pivoted at one end thereof to said jaws and provided with a notch adjacent their opposite ends adapted to engage a projection on the other of said jaws.

1,383,233. MEANS FOR DETECTING OR MEASURING MOISTURE. CHARLES ALGERNON PARSONS and ALEXANDER HENRY LAW, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Filed July 10, 1918. Serial No. 244,264. 1 Claim. (Cl. 175—183.)



A device for indicating the presence of moisture in air or gases comprising a metal cylinder having its curved surface covered with a material the electrical insulation resistance of which varies with the amount of moisture in the surrounding atmosphere, a coil of bare wire wound around the insulating material, and terminals connected respectively to the metal cylinder and to the wire coil, substantially as described.

1,383,234. FLAGPOLE. ERNEST H. RAGUSE, Summit, Ill. Filed Apr. 5, 1919. Serial No. 287,783. 3 Claims. (Cl. 116—173.)

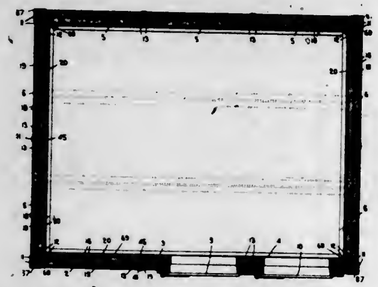
1. In a device of the class described, a flag pole, bearing members thereon, sleeves slidably mounted on the

pole, one of the sleeves being rotatable with reference to the other, means for raising and lowering the sleeves



into and out of engagement with the bearing members, and an object displayed by one of the sleeves.

1,383,235. REFRIGERATOR. HARRY H. REED, Winthrop, Mass. Filed Apr. 14, 1921. Serial No. 461,297. 5 Claims. (Cl. 45—71.)



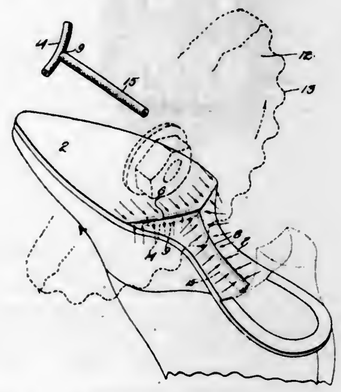
2. In a sectional cement finish refrigerator, the combination with a floor portion, of a wall made in individual sections each comprising a skeleton framework, a filling of insulating material and a coating of plastic material on one or both sides, a roof or ceiling supported by said walls and angle iron finish members inclosing the corner formed by the ceiling and walls and operating to secure the wall sections together.

1,383,236. THIRD-RAIL-BRACKET-CLAMP CAP. HUGH RICE, Yonkers, N. Y. Filed Nov. 10, 1920. Serial No. 423,157. 6 Claims. (Cl. 191—29.)



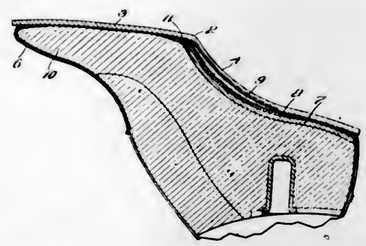
1. The combination with a bracket, a third rail spaced from the bracket, a clamp of insulation embracing the rail, and compression means acting upon the clamp to hold it and the rail to the bracket, of a cap of insulating material extending across the top of the clamp, substantially as set forth.

1,383,237. METHOD OF MAKING BOOTS AND SHOES. FRANK E. ROBERTS, Lynn, Mass., assignor of one-fourth to Albert N. Blake and one-fourth to Frank C. Stetson, Lynn, Mass., and one-fourth to Frederick W. Howe, Swampscott, Mass. Filed July 20, 1920. Serial No. 397,695. 6 Claims. (Cl. 12—142.)



1. The method of making boots and shoes of the class described which consists in first assembling the upper and inner sole upon a last; then placing a bolstering member in position upon the innersole; then securing the outersole in place, and lastly beating down the outersole so as to shape the latter to the last and bolstering member by crowding the material of the outersole toward said bolstering member and the last simultaneously.

1,383,238. METHOD OF MAKING BOOTS AND SHOES. FRANK E. ROBERTS, Lynn, Mass., assignor to Gotham Process Shank, Inc., Lynn, Mass., a Corporation of Massachusetts. Filed Oct. 6, 1920. Serial No. 415,085. 4 Claims. (Cl. 12—142.)

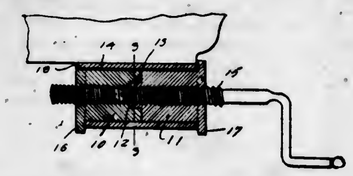


4. The method of making turned boots and shoes of the class described which consists in first securing the upper and outer-sole together, then turning the shoe right side out and inserting therein a shank stiffener with a longitudinally disposed bolstering member between said stiffener and the outer sole, then drawing the shoe onto a last with a transversely disposed bolstering member fastened to the last at the junction of the shank and forepart of the latter so as to occupy a position between the outer-sole and last, and then beating down the outersole so as to utilize said bolstering members to shape the outer-sole.

1,383,239. FEED-NUT. LOUIS I. ROLAND, Kernville, Calif. Filed June 12, 1920. Serial No. 388,596. 2 Claims. (Cl. 74—40.)

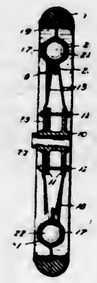
1. A feed nut having a sleeve or housing and axially alined sections or members fitted in said sleeve or housing

in endwise relation to each other and provided at their adjacent ends with interlocking elements, one of said



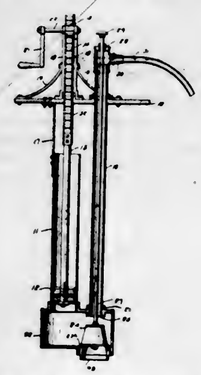
sections or members being held by the sleeve to prevent rotary movement thereof.

1,383,240. VEHICLE-WHEEL. RICHARD R. ROMNEY, Seattle, Wash., assignor to Ellis Resilient Wheel Corporation, Seattle, Wash., a Corporation of Washington. Filed Aug. 13, 1919. Serial No. 317,170. 2 Claims. (Cl. 152—28.)



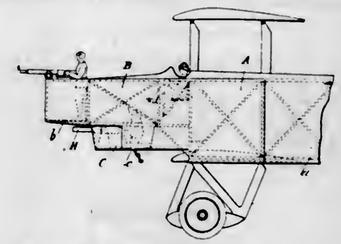
1. In a wheel, the combination of a hub, two circular plates carried thereby in spaced relations and having scalloped peripheries, said plates being arranged to have the peripheral projections of one be in radial planes medial of the peripheral concavities of the other plate, cup elements provided in the projections of each of said plates, a rim having an internal web provided with cup elements with the cavities thereof opposing the cup elements of each plate and extending into the concavities between the projections of the other plate alternately, resilient balls in the opposing cup elements of said web and plates, and means for connecting said plates to the hub.

1,383,241. GREASE-PUMP. JEREMIAH V. ROSER, Nashville, Tenn., assignor of one-half to Charles A. Brengelman, Nashville, Tenn. Filed Sept. 21, 1920. Serial No. 411,713. 6 Claims. (Cl. 103—75.)



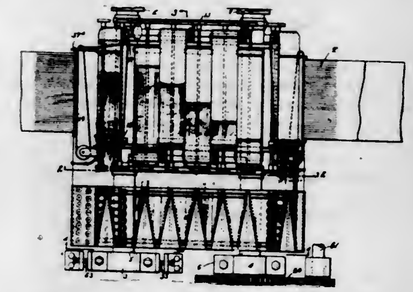
1. A pump for the purpose indicated having a cylinder and piston operating therein, means for actuating the piston, a discharge tube, and a frusto-conical valve for respectively controlling the inlet to the cylinder and the discharge through said tube, said inlet to the cylinder being of a larger diameter than the tube and closed by the large end of the valve.

1,383,242. ARMING OF FIGHTING AND OTHER AEROPLANES. JEAN JULES MARIE ANTOINE EUGÈNE SCHNEIDER, Paris, France. Filed May 10, 1920. Serial No. 380,262. 8 Claims. (Cl. 244—30.)



1. In an aeroplane, the combination of the fore-nose of the fuselage, a gun turret revolubly suspended beneath said fore-nose, and means for revolving said turret.

1,383,243. PAPER-REINFORCING MACHINE. AARON SCHWARTZ, Brookline, Mass., assignor to Safepack Mills, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1918. Serial No. 248,640. 10 Claims. (Cl. 154—1.)



1. Apparatus of the kind described, comprising means for supporting and advancing a paper web in longitudinal continuous movement, and means continuously moving longitudinally for depositing transverse threads thereon during the web movement mounted for a cycle of movement into and away from operative relation with the paper web, and having means coöperative therewith for drawing the threads transversely of the web while out of operative relation with the web.

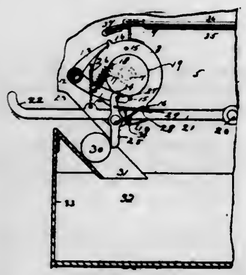
1,383,244. COMBINATION AIR-VALVE AND PRIMING-CUP. FRITZ SCHWARZER, St. Gallen, Switzerland. Filed Apr. 9, 1920. Serial No. 372,700. 3 Claims. (Cl. 123—187.5.)



1. In a valve of the character set forth, in combination, a one-piece body member comprising a polygonal portion,

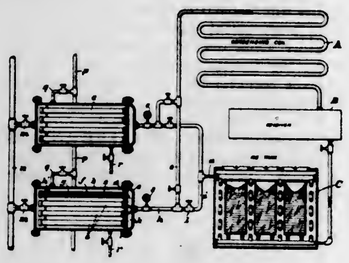
an outwardly threaded neck portion presenting at the lower end a valve seat, a cup portion, and said neck portion and part of said polygonal portion presepting an axially directed central bore in communication with said valve seat, a duct connecting said cup portion and said central bore, a socket extension within said cup portion centrally bored in axial alinement with the first said bore, a spring controlled valve spindle slidably arranged in said alined bores, a valve body at the lower end of said spindle adapted to coact with the said valve seat, and means for locking said valve spindle in the open position.

1,383,245. TOILET-PAPER DISPENSER. JAMES H. SELLERS, Oklahoma, Okla., assignor to The National Sanitary Service Company, Oklahoma, Okla., a Corporation of Oklahoma. Filed July 1, 1918. Serial No. 242,864. 2 Claims. (Cl. 194—22.)



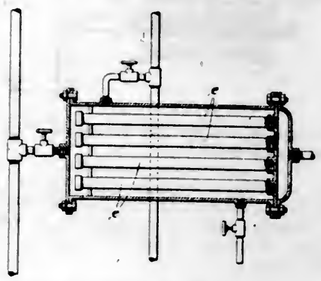
1. A device for dispensing packages comprising a rotary member, means carried by said rotary member for engaging and delivering a package, a two-way member for controlling and releasing the rotary member, a lever adapted to lock said rotary member, and a coin operated trip mounted on said lever adapted to normally hold said two-way member and said lever each in locking engagement with the rotary member.

1,383,246. REFRIGERATING APPARATUS. CURTIS M. SMITH, Washington, D. C., and HERMAN WEIGAND, La Crosse, Kans. Filed Jan. 16, 1919. Serial No. 271,465. 3 Claims. (Cl. 62—118.)



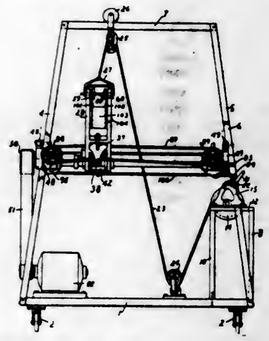
3. In an absorbent ice machine the combination of a chamber, containers located therein, each comprising an outer tube and an inner perforated tube, absorbent material filling the annular space between the outer and inner tubes, means for heating and cooling the chamber, and a conduit for the ammonia gas connecting with the interior of the perforated tube, substantially as described.

1,383,247. ABSORBENT MATERIAL FOR USE IN ICE-MACHINES. CURTIS M. SMITH, Washington, D. C., and HERMAN WEIGAND, Baxter Springs, Kans. Original application filed Jan. 16, 1919, Serial No. 271,465. Divided and this application filed Mar. 5, 1920. Serial No. 363,422. 2 Claims. (Cl. 252.)



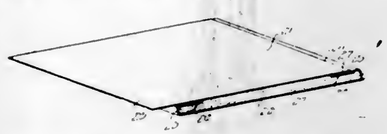
1. An absorbent material for use in ice machines consisting of anhydrous calcium chlorid with charcoal distributed throughout the mass, substantially as described.

1,383,248. ENDLESS BUCKET ELEVATOR. FLOYD E. TOWNSEND, Berkeley, Calif., assignor of one-half to Eugene G. Palmer, San Francisco, Calif. Filed May 5, 1919. Serial No. 294,713. 5 Claims. (Cl. 193—3.)



1. An endless bucket elevator comprising the combination of a truck, a tower thereon, a horizontal drive shaft on the tower, an arm slidable along said shaft, means to adjust the arm to different positions along the shaft, means to raise or lower the arm, an endless elevator leg supported by the arm, means to swing the elevator leg toward or away from the truck, and means to operate the elevator from the drive shaft.

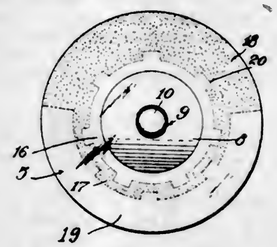
1,383,249. PLASTER-BOARD. CLARENCE W. UTZMAN, Chicago, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 13, 1918. Serial No. 249,630. 6 Claims. (Cl. 154—45.9.)



1. A plaster board of the kind described comprising a body of suitable material provided with covering sheets on

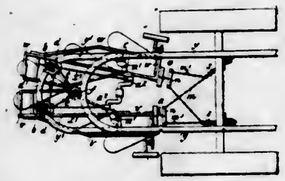
the faces thereof, one of the covering sheets being scored and thence folded to inclose the side edge and overlying the other face of the board.

1,383,250. HEADLIGHT-LENS. HENRY J. WAGNER, Boston, Mass., assignor of one-half to Philip F. McGinn, Boston, Mass. Filed Aug. 28, 1920. Serial No. 406,629. 1 Claim. (Cl. 240—48.4.)



A device of the character described comprising a transparent lens, having opaque screening means disposed centrally of the lens, the upper portion of said lens having translucent screening means, said translucent screening means extending from the edge of the upper portion to the intermediate portion of the lens and terminating in spaced relation to the opaque screening means, whereby a transparent portion of the lens is exposed, said translucent screening means also extending in semi-circular formation over the intermediate portion of the lower portion of said transparent lens in spaced relation to the edge of said lower portion and the opaque screening means.

1,383,251. MECHANICALLY-PROPELLED PLOW. FRANCIS MARK WALLER, Stafford, England. Filed Sept. 27, 1917. Serial No. 193,534. 10 Claims. (Cl. 97—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



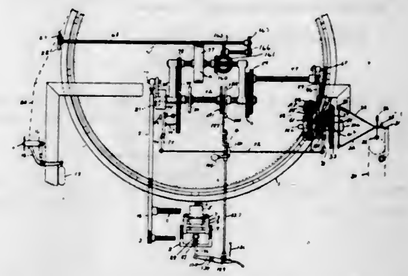
1. In a plowing implement, the combination of two gang plows one right-handed and the other left-handed arranged side by side, draft tackle coupling each of said plows to the frame of the implement, means for suspending said plows from the frame of the implement, mechanism for swinging either plow into the line of draft and mechanism for raising and lowering either plow.

1,383,252. COUPLING MEANS FOR RELEASABLY SUSPENDING A MASS. GORDON AUGUSTUS WEARHAM, London, England. Filed Feb. 10, 1921. Serial No. 443,952. 8 Claims. (Cl. 294—83.)



1. In apparatus for releasably suspending a mass, the combination with a frame or housing, of a hook from which the mass is suspended pivoted to the housing so as to tend to turn to release the mass, a detent engaging the said hook adapted to prevent such turning, an arm pivoted to the frame, on which the detent is pivoted and a trigger adapted to hold the detent in its hook-engaging position.

1,383,253. COLOR-PRINTING MECHANISM. CLINTON ALVORD, Worcester, Mass. Filed Aug. 20, 1919. Serial No. 318,716. 148 Claims. (Cl. 91—21.01.)

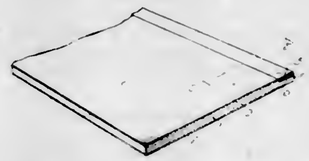


139. In a device of the class described, the combination of means for holding under tension yarn arranged in bights, and automatic means for printing said yarn at variably spaced apart intervals.

143. In combination, automatic means operable to move yarn variable distances and a color mechanism operable to contact the yarn.

148. In a device of the class described, the combination of a yarn support, a color-striping mechanism for applying stripes to the yarn supported by said support, a color ridge remover, and means associated with said mechanism for automatically actuating said ridge remover.

1,383,254. PLASTER-BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1918. Serial No. 247,244. 6 Claims. (Cl. 154—45.9.)

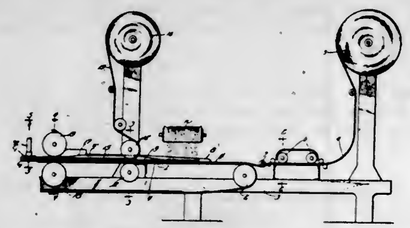


1. A plaster board comprising a body, a relatively stiff covering sheet of fibrous material adhering to one face of the body and extending to adjacent one edge of the body, and a second covering sheet adhering to the other face of the body and having an extension at one side folded over to inclose the edge of the body and overlie a portion of the body and the edge portion of the first covering sheet.

1,383,255. MACHINE FOR AND METHOD OF MAKING PLASTER-BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1920. Serial No. 348,939. 9 Claims. (Cl. 154—2.)

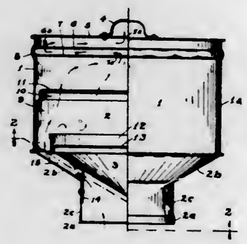
1. In a machine of the kind described and in combination, a conveyer, means for supplying the cover sheet of suitable material thereto, means for folding up the edges of the sheet and maintaining the same turned up, means for depositing a plastic body on the sheet between

said turned up edges, means for applying a second cover sheet on said plastic body, means for folding said edges



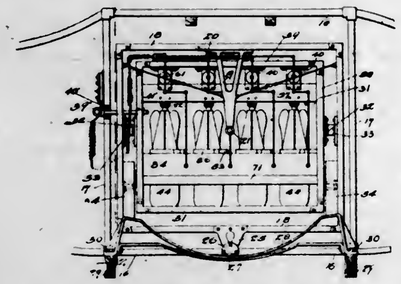
of the first sheet over onto the second cover sheet, and means for pressing the same down on the said second sheet.

1,383,256. BAKING-OVEN. GEORGE E. COOPER, Nashville, Tenn. Filed Nov. 3, 1920. Serial No. 421,487. 5 Claims. (Cl. 126—275.)



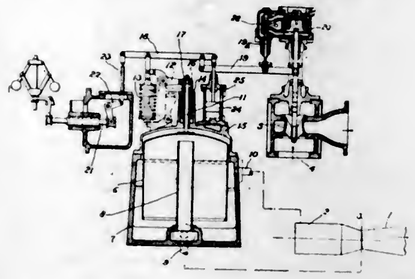
1. An oven of the class described, including an outer cylindrical casing provided with a top, baffle plates adjacent said top and provided with suitably spaced apertures, an inner supporting cylindrical casing arranged to fit loosely over the said outer casing, an inverted cone-shaped deflector plate within the inner casing, supporting means secured to said inner casing and said deflector plate adapted to support said deflector plate in spaced relation to the sides of the inner casing, a perforated shelf removably secured to the upper edge of said inner casing, an imperforate shelf positioned on the rim of the deflector plate, and a handle fastened to the top of the outer casing.

1,383,257. AIRCRAFT BOMBING APPARATUS. HAROLD A. DANNE, New York, N. Y. Filed Apr. 14, 1919. Serial No. 289,811. 7 Claims. (Cl. 244—1.)



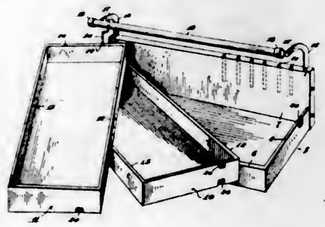
1. In apparatus for use upon an air craft, a gimbal joint structure embodying outer and inner frames, a barrel secured to the inner frame and arranged substantially parallel with the vertical axis thereof, an aerial bomb having a tail adapted for insertion within the barrel, means to support the bomb with its tail projected into the barrel and to release the same, and a cartridge adapted for insertion within the barrel, and means for simultaneously releasing said bomb and igniting said charge.

1,383,258. CONSTANT-VOLUME REGULATOR FOR TURBO-COMPRESSORS. PAUL HOFFMAN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 30, 1919. Serial No. 320,911. 10 Claims. (Cl. 103—92.)



1. A constant volume regulator for a motor driven turbo compressor, comprising a Venturi tube forming the intake of the compressor, a float, movement of which is adapted to vary the amount of power to drive the motor of said turbo compressor, said float being forced up or down by fluctuations in pressure differences between the throat and full diametered portions of said Venturi intake tube, whereby a substantially constant quantity of fluid is delivered to the intake of the turbo compressor regardless of the discharge pressure.

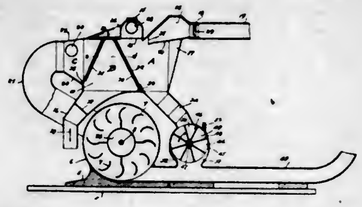
1,383,259. TOOL-BOX. HERMAN H. JORDAN, Los Angeles, Calif. Filed May 26, 1919. Serial No. 299,745. 1 Claim. (Cl. 206—45.)



A tool box comprising a bottom tray, a back wall on said bottom tray extending outwardly therefrom, a series of superimposed trays, a pivot pin connecting said superimposed trays and the bottom tray adjacent to a corner thereof near said back wall; said back wall forming an abutment against which the superimposed trays may be closed, a pair of brackets on said back wall extending forwardly over the uppermost tray, and a bar carried by said brackets extending substantially on the plane of the longitudinal center of said trays.

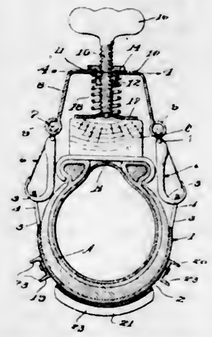
1,383,260. GRAIN-CLEANER. CHARLES ARGYLE TORRENCE, Winnipeg, Manitoba, Canada. Filed Sept. 3, 1919, Serial No. 321,401. Renewed May 11, 1921. Serial No. 468,724. 12 Claims. (Cl. 130—17.)

1. In a grain cleaning machine, a casing, a grain feeding spout connected to the casing, a fan operatively connected to the casing and designed to effect an air blast through the casing and the feed spout, screens within the casing intermediate of the spout and fan, a



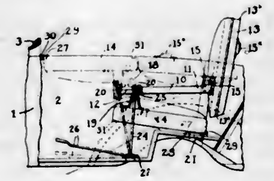
discharge spout communicating with the fan, a rotary feeder associated with the discharge spout and an outlet spout for cleaned grain leading from the casing to the feeder.

1,383,261. ANTISKIDDING DEVICE. WATSON E. TUBBS, Milwaukee, Wis. Filed Aug. 27, 1918. Serial No. 251,686. 3 Claims. (Cl. 152—14.)



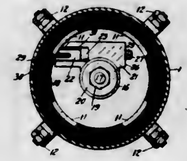
1. In an anti-skid device, the combination with a vehicle tire, and a vehicle wheel, of a device transversely surrounding the tire and wheel felly, a spring interposed between the felly and tire surrounding device for resiliently maintaining said tire surrounding device in gripping engagement with the crown of the tire, and means for adjusting the spring to vary the gripping engagement of the tire surrounding device upon the tire.

1,383,262. CONVERTIBLE-ROADSTER BODY. COON A. DEAS, Rock Hill, S. C., assignor to Rock Hill Buggy Company, Rock Hill, S. C., a Corporation of South Carolina. Filed May 8, 1920. Serial No. 379,895. 6 Claims. (Cl. 296—66.)



1. The combination of a vehicle body having a compartment, a seat and a back therein of size and form adapted to jointly form a closure for said compartment, a bar secured at each side of the compartment, means for pivoting the back to the rear end of said bar whereby the back may turn about said pivot from the erect position to serve as a back to the horizontal position to serve as a cover, bracket on the seat having pivot studs, slide bearings for said pivot studs so disposed on said bars that when the pivot studs are at the front end of said slide bearings the seat may be turned over to function as a cover and when said pivots are at the rear end of said slide bearings the seat may assume its normal position to receive passengers.

1,383,263. IGNITION-TIMER. EDWARD B. JACOBSON, Pittsfield, Mass., assignor to J and B Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Feb. 28, 1919. Serial No. 279,743. 1 Claim. (Cl. 200—19.)

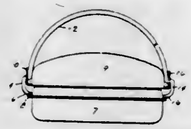


In an ignition timer, the combination with a casing, contact-elements mounted in the casing, and a rotor portion mounted to rotate in the casing and having an arm arranged lateral to its axis, of a spring-pressed contactor carried by said arm and arranged to yieldingly engage the contact-elements successively, said contactor being provided at its outer end with a cutting edge formed by the intersection at an acute angle of its bearing face with its front side and adapted to remove deposits adhering to the surfaces of the contact-elements.

1,383,264. SOLID NON-HYGROSCOPIC IRON SALT AND THE PREPARATION THEREOF. OTTO RÖHM, Darmstadt, Germany. Filed July 16, 1920. Serial No. 396,876. 8 Claims. (Cl. 23—13.)

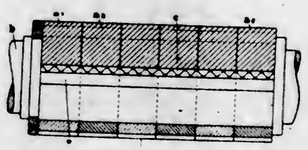
6. A chemical compound having the formula "$FeSO_4Cl$."

1,383,265. CAN-COVER LIFTER. EDWARD B. BIRKENBEUEL, Portland, Oreg. Filed Nov. 29, 1920. Serial No. 427,068. 4 Claims. (Cl. 220—43.)



1. In a can cover lifter, the combination of a can having a flange below the top of its side wall, a slip cover for said can having a pair of perforated up-turned ears formed integral with said cover, and a bail member whose ends pass through said ears before they are up-turned after which they journal therein, and whose extreme ends engage the sides of said can.

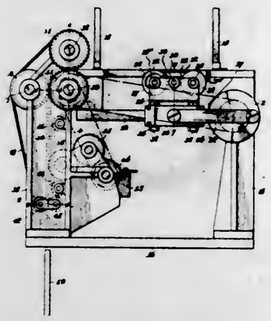
1,383,266. TOOTHED WHEEL. ERIC BROWN, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boverie & Cie., Baden, Switzerland. Filed Mar. 9, 1917. Serial No. 153,757. 8 Claims. (Cl. 74—7.)



8. In combination a shaft, a plurality of toothed wheels disposed about said shaft, a projection on one member

adapted to come in contact with a part substantially integral with the other member and rigid members capable of relative movement connecting said projection and said other member.

1,383,267. PAPER-FEEDING MECHANISM. HILARIO DE ESCOBALES, New York, N. Y., assignor to H. Escobales Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1917. Serial No. 154,447. 12 Claims. (Cl. 271—45.)

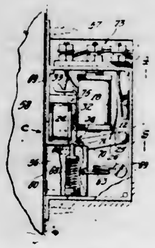


4. In mechanism for delivering blanks individually and successively from a pile of blanks and with each delivered blank having an adhesive-containing face, and wherein each blank is advanced by a continuous movement, feed mechanism in the path of a blank advancing from the pile, said mechanism including gear-connected rolls and bands carried by the rolls, said bands and rolls being positioned to form band-runs coöperating to support and carry the blank throughout a flight of predetermined length, and adhesive-applying mechanism including an applying face operative on the blank intermediate the ends of the flight, said runs being positioned to support the blank against the pressure of adhesive-applying activity and the runs and applying face being mutually arranged and formed to maintain the band formations free from contact with the applying face in the absence of a blank.

1,383,268. NON-DUSTING CEMENT CONCRETE FLOOR OR LIKE ARTICLE. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Co., a Corporation of New Jersey. Filed Oct. 2, 1917. Serial No. 194,314. 3 Claims. (Cl. 91—68.)

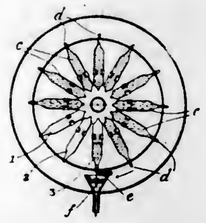
3. A cement concrete floor coated with a cumaron resin having a melting point substantially above 75° C.

1,383,269. ELECTRIC-LOCK STRIKE. NATHAN FIENBERG, Bondi, near Sydney, and WALTER LESLIE WAKEHAM, Five Dock, near Sydney, New South Wales, Australia. Filed Sept. 21, 1920. Serial No. 411,853. 4 Claims. (Cl. 70—52.)



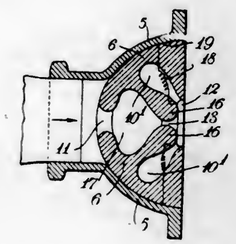
1. Electromagnetic control means for doors, comprising a spring backed hinged staple engageable by a latch bolt and adapted when free to be swung aside to allow said latch end to pass it, a drop pawl adapted to take behind said staple to chock it, an electromagnet adapted for lifting said pawl to free said staple, a counterbalanced pendent armature with toe piece adapted to engage and hold said pawl in its raised position, a resetting electromagnet adapted to pull off said pendent armature to release said pawl, a contacting member on said staple adapted to strike said pendent armature in the relocking movement of said staple, and separate circuit closing contacts with spring resetting means for closing the circuits of said pawl lifting electromagnet and said resetting electromagnet.

1,383,270. MEANS FOR COOLING INTERNAL-COMBUSTION ENGINES AND OTHER MACHINERY. ALBERT HENNING, Leytonstone, England. Filed Oct. 2, 1918. Serial No. 256,633. 4 Claims. (Cl. 221—106.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An appliance for cooling purposes comprising a movable carrier with means for holding flasks, ampuls or the like containing highly volatile liquid, and means for opening the flasks or ampuls consecutively by moving the carrier.

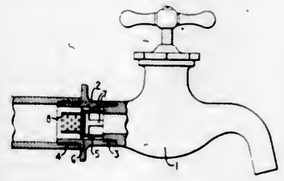
1,383,271. SOUND REPRODUCING AND RECORDING APPARATUS. WILLIAM MACDONALD SMITH, Bloomsbury, England. Filed May 19, 1920. Serial No. 382,600. 11 Claims. (Cl. 274—27.)



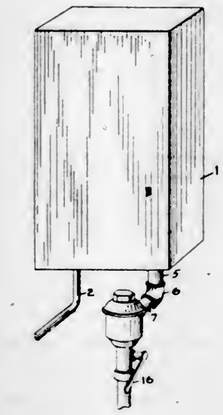
1. A tone purifying device for use on gramophones, phonographs, microphones, telephone transmitters and receivers comprising a mass of non-sonorous material of cup shaped form suitably mounted and retained in position adjacent the diaphragm of such apparatus or instrument, the said non-sonorous mass having a tubular member projecting from the interior thereof toward the diaphragm and having a central opening to admit of the sound waves passing therethrough.

1,383,272. SECONDARY VALVE. WALTER B. WOORE, New York, N. Y. Continuation of application No. 327,766. Renewed Oct. 1, 1919. This application filed Sept. 18, 1920. Serial No. 411,169. 3 Claims. (Cl. 277—27.)

1. The combination with a coupling having an annular valve seat, of a valve to fit said seat, a plurality of spaced arms projecting from the outer face of the valve through the valve seat close to the walls thereof and serving to guide said valve to its seat, a conduit to fit in the outer end of the coupling and engage the arms for moving the valve away from the seat when the conduit is inserted into the coupling, a concentric cage on the inner face of the valve, said cage having perforations in its walls opening on all sides and serving to center the pressure of the water on the valve to insure the proper seating thereof as soon as the conduit is removed from contact with said arms.



1,383,273. FLUSHING APPARATUS. ARTHUR H. KLAHN, San Francisco, Calif. Filed Dec. 26, 1914, Serial No. 879,093. Renewed Feb. 24, 1919. Serial No. 278,934. 6 Claims. (Cl. 4—5.)

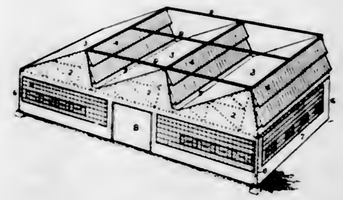


1. In a flushing apparatus, the combination of a closed tank, having an outlet larger than its inlet, both inlet and outlet located near the lower end of the tank, a valve casing on the tank outlet, the outlet of said valve casing smaller than its inlet, a float valve covering the outlet of said valve casing, and means to lift the float valve into the upper part of the valve casing to allow the water to be blown out of the tank.

REISSUES.

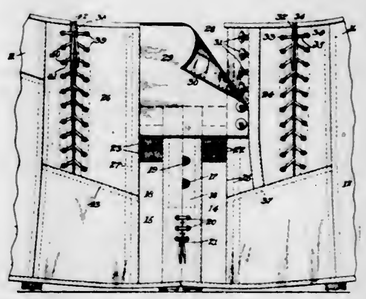
15,133. ROOF STRUCTURE. WALTER F. BALLINGER, Philadelphia, Pa., and CLIFFORD H. SHIVERS, Woodbury, N. J., assignors, by mesne assignments, to said Ballinger. Filed May 5, 1921. Serial No. 467,203. Original No. 1,347,669, dated July 27, 1920, Serial No. 314,526, filed July 31, 1919. 6 Claims. (Cl. 108—1.)

1. An improved roof of saw-tooth construction, comprising a plurality of parallel trussed sections providing saw-tooth framing along the length of the building for supporting oblique roof covering portions and upright sash portions, said saw-tooth framing having a plurality of parallel tension chord members extending throughout the entire length of the roof structure at its base and supported at their ends, and a plurality of longitudinal compression chord members at a higher elevation than the tension chord members and rigidly secured to the upper portions of the framing of the several saw-tooth members and located above the main level of the roof covering and



sash portions, combined with transverse trussed girders respectively extending along the high sash portion of each saw-tooth section and each having its upper portion secured to the compression chord members and its lower portion secured to the tension chord members and operating to support the roof transversely over great widths, and supports for the ends of the tension chord members.

15,134. APPAREL-CORSET. DANIEL KOPS, New York, N. Y. Filed Mar. 19, 1921. Serial No. 453,749. Original No. 1,366,811, dated Jan. 25, 1921, Serial No. 404,607, filed Aug. 19, 1920. 7 Claims. (Cl. 2—73.)

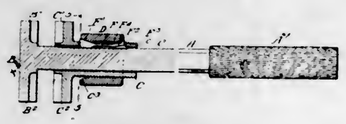


1. In an apparel corset, front steel members adapted to extend from the groin section upwardly and to overlie portions of the abdominal section of the body of the wearer, front body members secured to the front steel members and extending appreciably above the same so that the forward edges of the front body members above the front steel portions are materially spaced from one another, and a front strap extending between the said spaced edges of the front body members.

15,135. WRENCH. ROBERT A. ROSANDER, Brooklyn, N. Y., assignor to Romaro Machine and Tool Company, a Corporation of New York. Filed Nov. 4, 1919. Serial No. 335,771. Original No. 1,299,510, dated Apr. 8, 1919, Serial No. 139,518, filed Dec. 29, 1916. 6 Claims. (Cl. 81—130.)

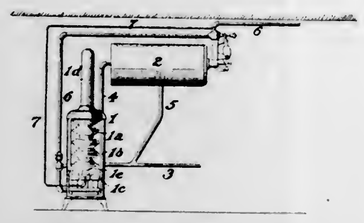
5. In a tool of the character set forth, a bar having a jaw attached thereto, a second jaw slidably mounted on the bar, and means for locking the jaw to the bar in

different positions of adjustment comprising a series of fine corrugations on one face of the bar, a dog having a complementary series of corrugations carried by said movable jaw and adjustable bodily toward and from the



corrugations on the bar, and a threaded ring carried by said sliding jaw adapted to be screwed along the jaw and clamp said dog against said bar with a plurality of its corrugations in engagement with the corrugations of the bar.

15,136. STORAGE WATER-HEATER. EDWIN RUUD, Pittsburgh, Pa., assignor to Ruud Manufacturing Company, Camden, N. J., a Corporation of New Jersey. Filed May 12, 1921. Serial No. 468,945. Original No. 853,738, dated May 14, 1907. Serial No. 266,909, filed June 26, 1905. 4 Claims. (Cl. 236—33.)



1. In a storage water heater system, the combination of a water-heater, a reservoir, connections between the same, a valve to control the supply of fuel to said heater, a thermostat in said reservoir, a lost-motion connection between said thermostat and valve and means to cause said valve to remain either entirely closed or completely open.

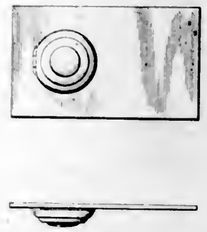
DESIGNS.

58,203. BOTTLE. HENRY C. ANDERSON, Athens, Ga. Filed July 17, 1917. Serial No. 181,180. Term of patent 14 years.



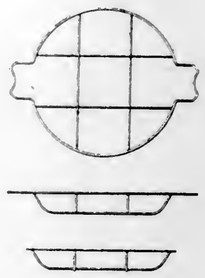
The ornamental design for a bottle, as shown.

58,204. COMBINATION BELT-BUCKLE AND LOCKET. ISABEL ANDERSON, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,491. Term of patent 7 years.



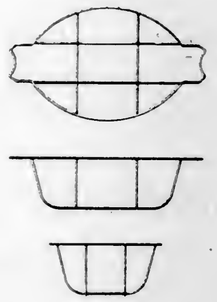
The ornamental design for a combination belt buckle and locket, as shown.

58,205. FRAME FOR OVENWARE. CHARLES ANDREWS, Jr., Rockford, Ill., assignor to Andrews Wire & Iron Works, Rockford, Ill., a Corporation of Illinois. Filed Nov. 21, 1919. Serial No. 339,726. Term of patent 7 years.



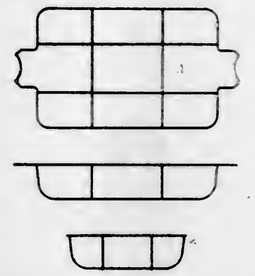
The ornamental design for a frame for ovenware, as shown.

58,206. FRAME FOR OVENWARE. CHARLES ANDREWS, Jr., Rockford, Ill., assignor to Andrews Wire & Iron Works, Rockford, Ill., a Corporation of Illinois. Filed Nov. 21, 1919. Serial No. 339,728. Term of patent 7 years.



The ornamental design for a frame for ovenware, as shown.

58,207. FRAME FOR OVENWARE. CHARLES ANDREWS, Jr., Rockford, Ill., assignor to Andrews Wire & Iron Works, Rockford, Ill., a Corporation of Illinois. Filed Nov. 21, 1919. Serial No. 339,731. Term of patent 7 years.



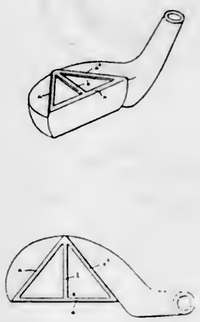
The ornamental design for a frame for ovenware, as shown.

58,208. TWEEZER. HENRY W. ARMSTRONG, New Haven, Conn. Filed Mar. 11, 1921. Serial No. 451,592. Term of patent 14 years.



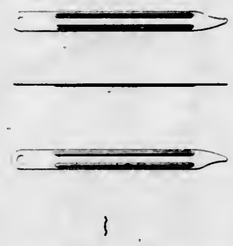
The ornamental design for a tweezer as shown.

58,209. GOLF-PUTTER HEAD. EDWARD F. BACHELLER, Lynn, Mass., assignor of one-half to John Hammond Stewart, Lynnfield, Mass. Filed Feb. 10, 1921. Serial No. 444,043. Term of patent 14 years.



The ornamental design for a golf putter head as shown.

58,210. FINGER-NAIL TOOL. VICTOR BEAUREGARD, Boston, Mass. Filed Nov. 13, 1920. Serial No. 423,993. Term of patent 14 years.



The ornamental design for a finger-nail tool, as shown.

58,211. PLATE OR SIMILAR ARTICLE. ANDRÉ BEYRAND, Limoges, France, assignor to Herman C. Kupper, New York, N. Y. Filed July 10, 1920. Serial No. 395,401. Term of patent 7 years.



The ornamental design for a plate or similar article as shown.

58,212. PLATE OR SIMILAR ARTICLE. ANDRÉ BEYRAND, Limoges, France, assignor to Herman C. Kupper, New York, N. Y. Filed July 10, 1920. Serial No. 395,402. Term of patent 7 years.



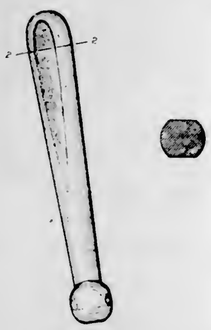
The ornamental design for a plate or similar article as shown.

58,213. PLATE OR SIMILAR ARTICLE. ANDRÉ BEYRAND, Limoges, France, assignor to Herman C. Kupper, New York, N. Y. Filed Jul. 10, 1920. Serial No. 395,403. Term of patent 7 years.



The ornamental design for a plate or similar article as shown.

58,214. POLICE-BILLY. FRED BIFFAR, Jr., Chicago, Ill. Filed Sept. 27, 1919. Serial No. 328,076. Term of patent 14 years.



The ornamental design for a police billy as shown.

58,215. SPARK-PLUG. HARRY H. CHINSKY and EMIL HONSTETTER, Brooklyn, N. Y. Filed Apr. 10, 1920. Serial No. 373,015. Term of patent 3½ years.



The ornamental design for a spark plug, as shown.

58,216. CABINET FOR AN X-RAY UNIT. GEORGE B. COLEMAN, San Francisco, Calif., assignor to Coleman X-Ray Company, San Francisco, Calif., a Corporation of California. Filed Aug. 27, 1920. Serial No. 406,493. Term of patent 14 years.



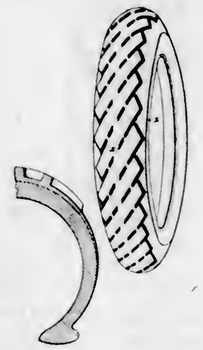
The ornamental design for a cabinet for an X-ray unit substantially as shown.

58,217. VEHICLE-WHEEL. JULIAN L. CRACRAFT, Georgetown, Ky. Filed Mar. 22, 1921. Serial No. 454,489. Term of patent 7 years.



The ornamental design for a vehicle wheel, as shown.

58,218. TIRE FOR AUTOMOBILE-WHEELS. GEORGE K. CULP, New York, N. Y., assignor to New England Tire and Rubber Company, Holyoke, Mass., a Corporation of Delaware. Filed June 24, 1920. Serial No. 391,543. Term of patent 14 years



The ornamental design for a tire for automobiles wheels, as shown.

58,219. WINDOW-FASTENER. HARRY DALITZ, Cleveland, Ohio. Filed Jan. 29, 1921. Serial No. 441,052. Term of patent 14 years.



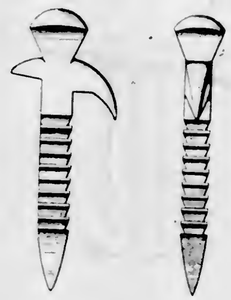
The ornamental design for a window fastener, as shown.

58,220. COLLAR-HOLDING DEVICE. CLARENCE A. DYE, Toledo, Ohio. Filed Jan. 15, 1921. Serial No. 437,639. Term of patent 14 years.



The ornamental design for a collar holding device, as shown.

58,221. RAILROAD-SPIKE. FRED M. EMBANKS, Cleveland, Ohio. Filed Mar. 17, 1921. Serial No. 453,154. Term of patent 14 years.



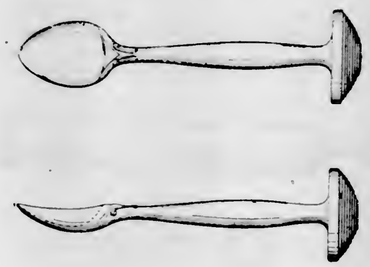
The ornamental design for a railroad spike, as shown.

58,222. MOTOR-CASING. ALEXANDER GLOWICKI, Cincinnati, Ohio. Filed Oct. 13, 1919. Serial No. 330,495. Term of patent 14 years.



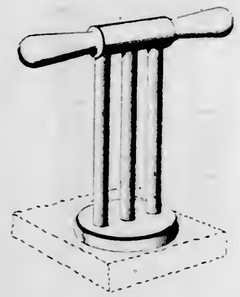
The ornamental design for a motor casing, as shown and described.

58,223. COMBINED CULINARY MASHER AND SPOON. MARY GOLDSMITH, St. Louis, Mo. Filed Nov. 11, 1920. Serial No. 423,498. Term of patent 14 years.



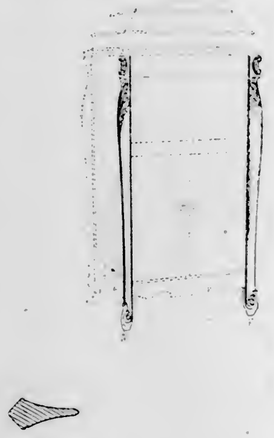
The ornamental design for a combined culinary masher and spoon, as shown.

58,224. HANDLE FOR CHILDREN'S VEHICLES. WARREN T. GREEN, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Jan. 31, 1921. Serial No. 441,478. Term of patent 14 years.



The ornamental design for a handle for children's vehicles, as shown.

58,225. CORNER MEMBER AND LEG. CHRISTIAN H. GUDEGAST, Richmond Hill, N. Y. Filed Nov. 13, 1919. Serial No. 337,856. Term of patent 3½ years.



The ornamental design for a corner member and leg as shown and described.

58,226. VALVE-CASING FOR A HORN. EDWARD J. GULICK, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Jan. 13, 1921. Serial No. 437,098. Term of patent 14 years.



The ornamental design for a valve casing for a horn, as shown.

58,227. CAR-CHECK HOLDER. HARRY J. GUTMON, Springfield, Ill. Filed July 31, 1920. Serial No. 400,552. Term of patent 3½ years.



The ornamental design for a car-check holder, as shown.

58,228. COMBINED MIRRORSCOPE AND PARKING-LIGHT. WILLIAM P. HAMMOND, Maplewood, N. J. Filed Apr. 1, 1921. Serial No. 457,830. Term of patent 14 years.



The ornamental design for a combined mirrorscope and parking light, as shown and described.

58,229. SALT AND PEPPER BASKET. RUTH E. HARRIS and ROY L. CHANCE, San Francisco, Calif. Filed Jan. 28, 1921. Serial No. 440,814. Term of patent 14 years.



The ornamental design for a salt and pepper basket, substantially as shown.

58,230. ELECTRIC-WELDER CABINET. SIDNEY M. HARVEY, Detroit, Mich., assignor to Electric Welding Machine Company, Detroit, Mich., a Copartnership Firm. Filed Dec. 20, 1920. Serial No. 432,116. Term of patent 14 years.



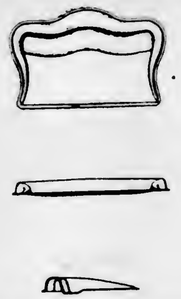
The ornamental design for an electric welder cabinet as shown.

58,231. SPARKING-PLUG ELECTRODE. FREDERICK WILLIAM HILL, Folkestone, England. Filed Nov. 12, 1919. Serial No. 337,615. Term of patent 7 years.



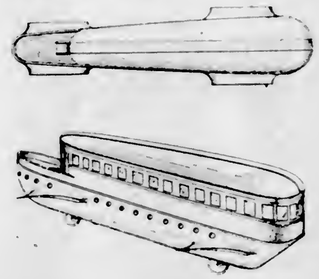
The ornamental design for a sparking plug electrode as shown.

58,232. CRUMBING IMPLEMENT. WILLIAM J. HINES, Hartford, Conn., assignor to The Fuller Brush Company, a Corporation of Connecticut. Filed Oct. 18, 1920. Serial No. 417,852. Term of patent 7 years.



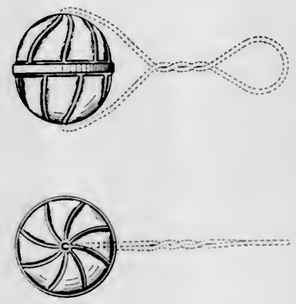
The ornamental design for a crumbing implement, as shown.

58,233. AEROPLANE-BODY. LEO HINZ, Perth Amboy, N. J., assignor of one-half to Friedrick Martin, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,561. Term of patent 7 years.



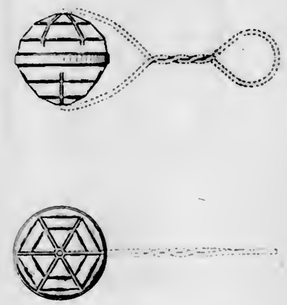
The ornamental design of an aeroplane body as shown.

58,234. RATTLE. FRANK A. HOLLEY, Rochester, N. Y., assignor to Bastian Bros. Co., Rochester, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,361. Term of patent 3½ years.



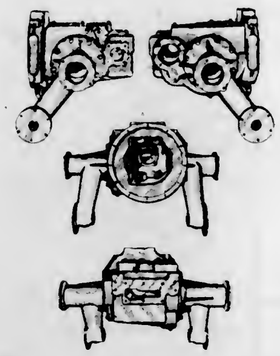
The ornamental design for a rattle, as shown.

58,235. RATTLE. FRANK A. HOLLEY, Rochester, N. Y., assignor to Bastian Bros. Co., Rochester, N. Y., a Corporation of New York. Filed Apr. 8, 1920. Serial No. 372,362. Term of patent 3½ years.



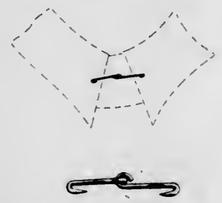
The ornamental design for a rattle, as shown.

58,236. TRACTOR TRANSMISSION-HOUSING. JOHN M. HOWARD, Media, Pa., and CHARLES J. ALLEN, Moorestown, N. J. Filed June 18, 1920. Serial No. 390,041. Term of patent 14 years.



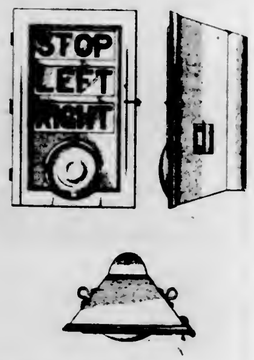
The ornamental design for tractor transmission housing, as shown.

58,237. COLLAR-LINK. ROBERT W. JOHNSON, Chicago, Ill. Filed Dec. 3, 1920. Serial No. 428,137. Term of patent 7 years.



The ornamental design for a collar link, as shown.

58,238. SIGNAL-EXHIBITOR CASING. JAMES E. JOURNEAUX and WILLIAM E. HEBESTREIT, Detroit, Mich. Filed Jan. 17, 1921. Serial No. 438,012. Term of patent 3½ years.



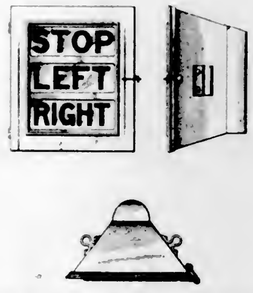
The ornamental design for a signal exhibitor casing, as shown.

58,239. SIGNAL-EXHIBITOR CASING. JAMES E. JOURNEAUX and WILLIAM E. HEBESTREIT, Detroit, Mich. Filed Jan. 17, 1921. Serial No. 438,013. Term of patent 3½ years.



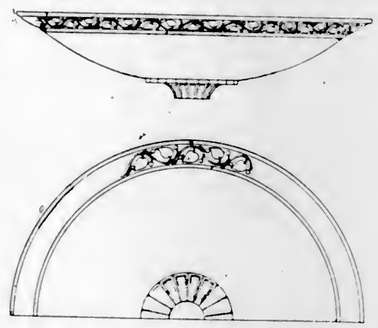
The ornamental design for a signal exhibitor casing, as shown.

58,240. SIGNAL-EXHIBITOR CASING. JAMES E. JOURNEAUX and WILLIAM E. HEBESTREIT, Detroit, Mich. Filed Jan. 17, 1921. Serial No. 438,014. Term of patent 3½ years.



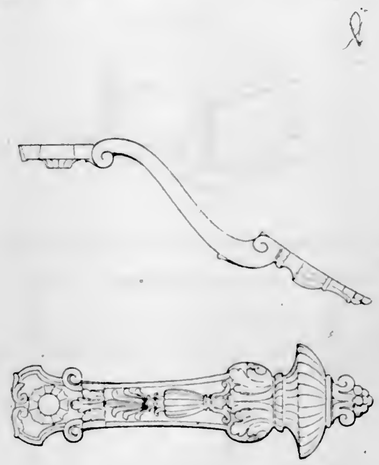
The ornamental design for a signal exhibitor casing, as shown.

58,241. BODY FOR LIGHTING-FIXTURES. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,291. Term of patent 3½ years.



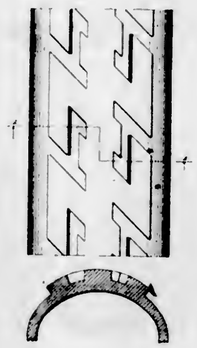
The ornamental design for a body for lighting fixtures, as shown.

58,242. ARM FOR LIGHTING-FIXTURES. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,295. Term of patent 3½ years.



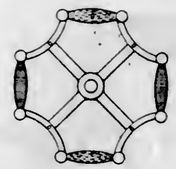
The ornamental design for an arm for lighting fixtures, as shown.

58,243. TIRE-TREAD. GRANT LAMBRIGHT, Fond du Lac, Wis. Filed Dec. 27, 1920. Serial No. 433,509. Term of patent 14 years.



The ornamental design for a tire-tread, as shown.

58,244. MOTOR-VEHICLE STEERING-WHEEL. HOARD LEE, Shreveport, La. Filed Mar. 21, 1921. Serial No. 454,209. Term of patent 14 years.



The ornamental design for a motor vehicle steering wheel as shown.

58,245. DIRECTORY-CABINET. SAMUEL L. MARSH, New York, N. Y. Filed Oct. 23, 1920. Serial No. 419,106. Term of patent 14 years.



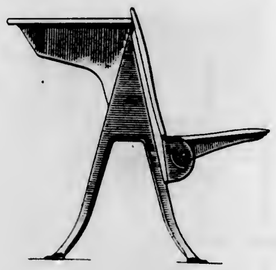
The ornamental design for a directory cabinet as shown.

58,246. MUD-GUARD FOR CYCLES. HERBERT J. MCCAULEY, East Aurora, N. Y. Filed Nov. 20, 1920. Serial No. 425,568. Term of patent 14 years.



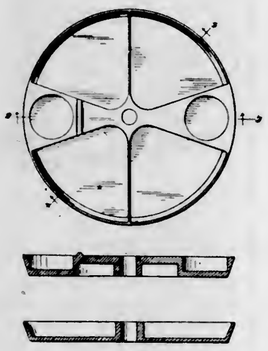
The ornamental design for a mud guard for cycles as shown.

58,247. SCHOOL-DESK. LOUIS H. MCKEE, Trenton, N. J. Filed Dec. 8, 1920. Serial No. 429,288. Term of patent 14 years.



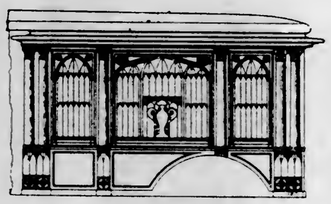
The ornamental design for a school desk, as shown.

58,248. PLATE. ALTHIA A. MEEKER, Eldon, Iowa. Filed Jan. 20, 1921. Serial No. 438,749. Term of patent 7 years.



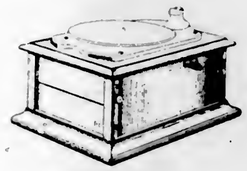
The ornamental design for a plate as shown.

58,249. HEARSE-BODY. CHARLES S. MOONEY, Grand Rapids, Mich. Filed Mar. 11, 1921. Serial No. 451,593. Term of patent 7 years.



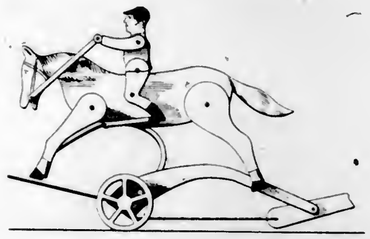
The ornamental design for a hearse body, as shown and described.

58,250. PHONOGRAPH-CABINET. ALBERT T. MOWITZ, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 2, 1921. Serial No. 449,229. Term of patent 14 years.



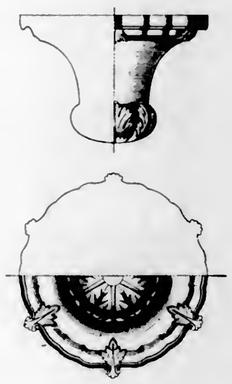
The ornamental design for a phonograph cabinet, as shown.

58,251. TOY HORSE WITH JOCKEY. ROBERT MULRONE, Camperdown, Sydney, New South Wales, Australia. Filed Dec. 28, 1920. Serial No. 433,654. Term of patent 7 years.



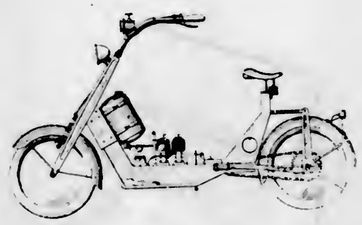
The ornamental design for a toy horse with jockey, as shown.

58,252. LIGHTING-FIXTURE CANOPY. ALBERT J. D. OHM, Astoria, N. Y., assignor to Lion Electric Appliance Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 410,018. Term of patent 3½ years.



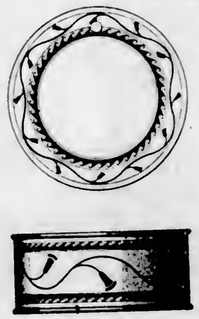
The ornamental design for a lighting fixture canopy, as shown.

58,253. AUTOMOTIVE VEHICLE. VICTOR W. PAGE, Kew Gardens, N. Y. Filed Mar. 14, 1921. Serial No. 452,316. Term of patent 14 years.



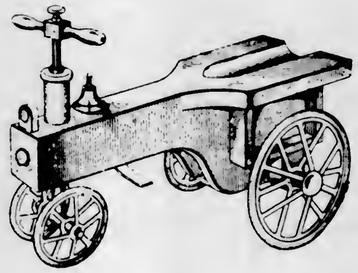
The ornamental design for an automotive vehicle, as shown.

58,254. RECEPTACLE. IRVING R. PARSONS, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 427,243. Term of patent 14 years.



The ornamental design for a receptacle as shown.

58,255. VEHICLE TOY. ROSS M. G. PHILLIPS, New Haven, Conn., assignor to Perlie P. Fallon, New York, N. Y. Filed Apr. 8, 1921. Serial No. 459,805. Term of patent 14 years.



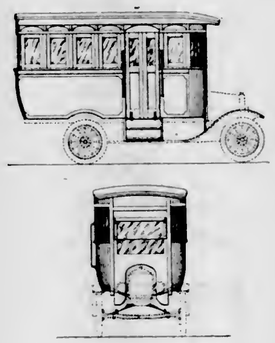
The ornamental design for a vehicle toy as shown.

58,256. ALPHABET OF SIGN-LETTERS. GEORGE R. PYPER, Salt Lake City, Utah, assignor to The Pyper Animated Sign Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 12, 1920. Serial No. 365,327. Term of patent 14 years.



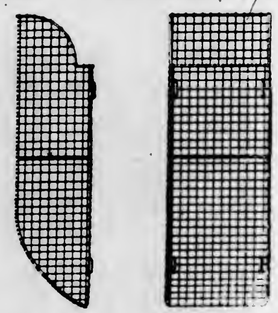
An ornamental design for an alphabet of sign letters, as shown.

58,257. VEHICLE-BODY. LOYD W. RAY, Wichita, Kans. Filed Mar. 5, 1921. Serial No. 450,106. Term of patent 14 years.



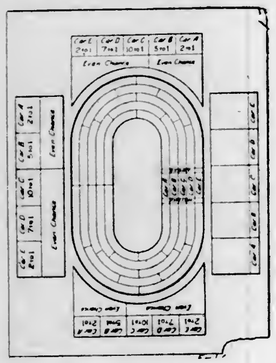
The ornamental design for a vehicle body, as shown.

58,258. WASTE-BASKET. WILLIAM F. SCRANTON, Huntington, W. Va. Filed June 16, 1920. Serial No. 389,496. Term of patent 14 years.



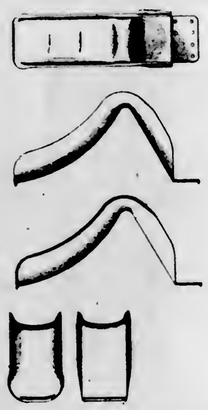
The ornamental design for a waste basket, as shown.

58,259. GAME APPARATUS. EMIL C. STEFFEN, Los Angeles, Calif. Filed Jan. 31, 1921. Serial No. 441,494. Term of patent 7 years.



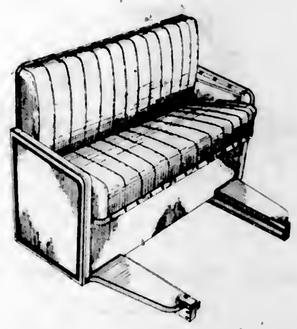
The ornamental design for a game apparatus as shown.

58,260. WHEEL-HOLDER. REUBEN B. STIPES, JOHN D. GOODWIN, and HOWARD C. WELCH, Flint, Mich. Filed Jan. 21, 1921. Serial No. 439,028. Term of patent 14 years.



The ornamental design for a wheel holder, as shown.

58,261. AUTOMOBILE-SEAT CONSTRUCTION. HORACE T. THOMAS, Lansing, Mich. Filed Feb. 25, 1921. Serial No. 447,882. Term of patent 7 years.

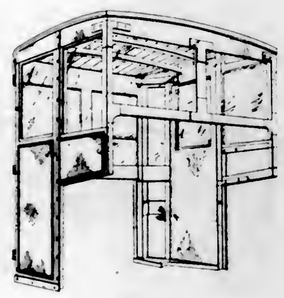


The ornamental design for an automobile seat construction, as shown.

58,262. AUTOMOBILE-BODY. HORACE T. THOMAS, Lansing, Mich. Filed Feb. 25, 1921. Serial No. 447,883. Term of patent 7 years.

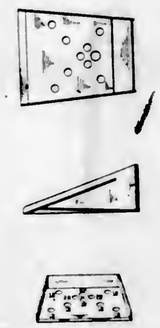
The ornamental design for an automobile body, as shown.

58,263. AUTOMOBILE-TOP. HORACE T. THOMAS, Lansing, Mich. Filed Mar. 2, 1921. Serial No. 449,230. Term of patent 7 years.



The ornamental design for an automobile top, as shown.

58,264. GAME-BOARD. SAMUEL L. TRACEY, Toronto, Ontario, Canada. Filed Feb. 28, 1921. Serial No. 448,612. Term of patent 7 years.



The ornamental design for a game board, as shown.

58,265. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,886. Term of patent 14 years.



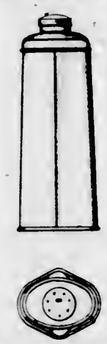
The ornamental design for a receptacle for toilet powder as shown.

58,266. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,887. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,267. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,888. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,268. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,889. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,269. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,890. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,270. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,891. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,271. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,892. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder substantially as shown.

58,272. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Apr. 26, 1920. Serial No. 376,893. Term of patent 14 years.



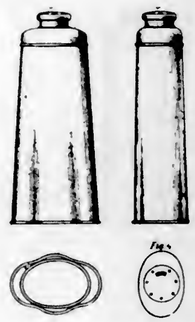
The ornamental design for a receptacle for toilet powder as shown.

58,273. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed May 3, 1920. Serial No. 378,705. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,274. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed May 3, 1920. Serial No. 378,706. Term of patent 14 years.



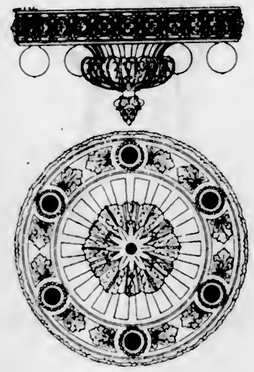
The ornamental design for a receptacle for toilet powder as shown.

58,275. RECEPTACLE FOR TOILET POWDER. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed May 3, 1920. Serial No. 378,707. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder as shown.

58,276. LIGHTING-FIXTURE. WALTER A. WELLER, Milwaukee, Wis., assignor to Charles Polacheck & Brothers Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 11, 1920. Serial No. 423,491. Term of patent 7 years.



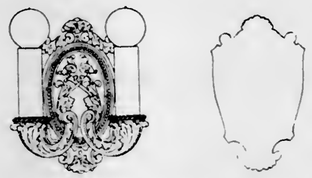
The ornamental design for a lighting fixture, substantially as shown.

58,277. LIGHTING-FIXTURE. WALTER A. WELLER, Milwaukee, Wis., assignor to Charles Polacheck & Brothers Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 11, 1920. Serial No. 423,492. Term of patent 7 years.



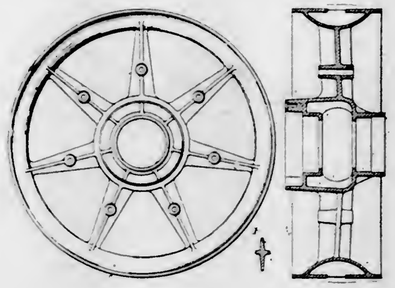
The ornamental design for a lighting fixture, substantially as shown.

58,278. LIGHTING-FIXTURE. WALTER A. WELLER, Milwaukee, Wis., assignor to Charles Polacheck & Brothers Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 11, 1920. Serial No. 423,493. Term of patent 7 years.



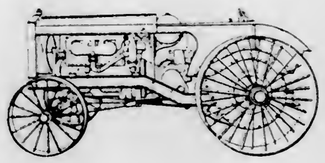
The ornamental design for a lighting fixture, substantially as shown.

58,279. VEHICLE-WHEEL. RALPH H. WEST, Cleveland, Ohio, assignor to The West Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 9, 1919. Serial No. 329,620. Term of patent 14 years.



The design for a vehicle wheel substantially as shown.

58,280. TRACTOR. JOHN C. WESTMONT, Sauk City, Wis., assignor to The Wisconsin Farm Tractor Company, Sauk City, Wis., a Corporation of Wisconsin. Filed Nov. 17, 1919. Serial No. 338,775. Term of patent 14 years.



The ornamental design for a tractor as shown.

58,281. FUEL-CONTAINER. MILTON C. WHITAKER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Aug. 6, 1920. Serial No. 401,798. Term of patent 14 years.



The ornamental design for a fuel container as shown.

58,282. INDICATOR, SIGN, OR SIMILAR ARTICLE. CHARLES A. WIDMER, Paterson, N. J. Filed May 8, 1919. Serial No. 295,789. Term of patent 14 years.



The ornamental design for an indicator, sign, or similar article, substantially as shown and described.

58,283. RADIATOR-CAP ORNAMENT. LOUIS KYLE WOODARD, Mount Vernon, N. Y. Filed Apr. 1, 1921. Serial No. 457,825. Term of patent 3½ years.



The ornamental design for a radiator cap ornament as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JUNE 28, 1921.

[PUBLISHED JULY 12, 1921]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 97,175. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, PA., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

No claim being made to the words "Lawn Cleaners" apart from the mark as shown in the drawing.

Particular description of goods.—Machines for Cleaning Lawn-Surfaces.

Claims use since the summer of 1906.

Ser. No. 97,177. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA JR

No claim being made to the words "Ball Bearing" apart from the mark shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since early fall of 1901.

Ser. No. 97,180. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

No claim being made to the words "Undercut B. B. Trimmer" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since early spring of 1911.

Ser. No. 97,185. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

No claim being made for the use of the words "Grand Horse Mower" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since spring of 1908.

Ser. No. 97,187. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

No claim being made to the words "Ball Bearing Trimmer" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since the summer of 1909.

Ser. No. 97,189. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

No claim being made to the words "Golf Ball Bearing" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since the early summer of 1907.

Ser. No. 97,190. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

No claim being made to the words "Putting Greens" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since the summer of 1912.

Ser. No. 99,360½. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARL EDVARD JOHANSSON, Eskilstuna, Sweden. Filed Nov. 17, 1916.

CEJ

Particular description of goods.—Measuring Instruments—Namely, Gage-Blocks, Cylindrical-Plug Gages, Ring-Gages, Tolerance Cylindrical-Plug Gages, Adjustable-Limit Snap-Gages, Adjustable-Limit Plug-Gages, Triangular Straight-Edges, Standard Combination Angle-Blocks, Thread-Gages; Tolerance-Indicators, (*i. e.*, Registering-Calipers;) Combination Contour Sets, Micrometers, and Adjustable Micrometers.

Claims use since June 16, 1916.

Ser. No. 108,366. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) S. ALLCOCK & CO., LIMITED, Redditch, England. Filed Jan. 9, 1918.



BADEN-POWELL "PRISMATIC" LURES

No claim being made to the words "Baden-Powell, Prismatic, Lures" apart from the mark shown in the drawing.

Particular description of goods.—Artificial Bait.

Claims use since June, 1917.

Ser. No. 118,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOCIETE COMMERCIALE PENINSULAIRE GAILLARD & ADEMA, Seville, Spain. Filed May 16, 1919.



The exclusive use of the words "Pure Olive Oil, Brand, Specially Packed in Malaga (Spain), Marseille (France), Seville, Malaga (Spain), Net Contents One Gallon, Full Measure Guaranteed" and the representation of olives shown on the drawing are disclaimed apart from the other features of the mark.

Particular description of goods.—Olive-Oil.

Claims use since Feb. 7, 1919.

Ser. No. 119,727. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ARGOS STEEL PRODUCTS CORPORATION, New York, N. Y. Filed June 18, 1919.

ARGOS

Particular description of goods.—Steel Castings and Forgings.

Claims use since March, 1919.

Ser. No. 119,915. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BENNETT J. PATRICK, Minneapolis, Minn. Filed June 24, 1919.



No claim being made to the words "Minneapolis, Minn., Trade Mark" apart from the mark as shown by the drawing.

Particular description of goods.—Tractors.

Claims use since June 20, 1918.

Ser. No. 121,716. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HARVEY RIM AND WHEEL COMPANY, Buffalo, N. Y. Filed Aug. 16, 1919.

HARVEY

Particular description of goods.—Wheels and Demountable Rims.

Claims use since Feb. 1, 1919.

Ser. No. 123,816. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LUCIUS N. LITTAUER, New York, N. Y. Filed Oct. 15, 1919.

PETROTONE

Particular description of goods.—A Specially-Prepared Oil for Use in Paints, Varnishes, and Enamels, Rendering Them Waterproof, and an Oily Preparation for Cleaning and Polishing Woodwork and Automobiles.

Claims use since Sept. 5, 1919.

Ser. No. 123,884. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ECONOMIC MANUFACTURING CO., Paterson, N. J. Filed Oct. 17, 1919.



Particular description of goods.—Ribbons, Dress Goods, Woolen, Silk, Cotton, &c., and Shirtings, All in the Piece.

Claims use since March, 1918.

Ser. No. 124,404. (CLASS 37. PAPER AND STATIONERY.) EGON HASSINGER, Barcelona, Spain. Filed Oct. 31, 1919.

EBRO

Particular description of goods.—Writing, Wrapping, and Printing Paper, Mailing or Correspondence Envelops, Lead-Pencils, Metallic Pen-Points, Paper Seals, and Rubber Erasers.

Claims use since March, 1916.

Ser. No. 124,710. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Nov. 10, 1919.



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.

Claims use since Sept. 19, 1919.

Ser. No. 125,739. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLUE BELL PEANUT BUTTER COMPANY, Grand Rapids, Mich. Filed Dec. 9, 1919.



The trade-mark consists of an illustration of a bell with a ribbon spread across it and the words "Blue-Bell" printed upon the ribbon, and the bell and ribbon are printed in blue upon our labels, with the words "Blue-Bell" printed in white.

Particular description of goods.—Peanut-Butter.

Claims use since Oct. 1, 1918.

Ser. No. 126,087. (CLASS 5. ADHESIVES.) JAMES E. SMITH, Philadelphia, Pa. Filed Dec. 16, 1919.



No claim being made to the words "Rubber Repair" apart from the mark as shown.

Particular description of goods.—A Plastic Rubber Material for Repairing Tires, Water-Bags, Hose, Boots, Shoes, Ice-Bags, Blankets, and other Rubber Articles.

Claims use since on or about Mar. 1, 1917.

Ser. No. 127,028. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill. Filed Jan. 12, 1920.



Particular description of goods.—Phonograph-Records.

Claims use since June 1, 1919.

Ser. No. 128,674. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN V. FARWELL COMPANY, Chicago, Ill. Filed Feb. 20, 1920.

BLACK HAWK

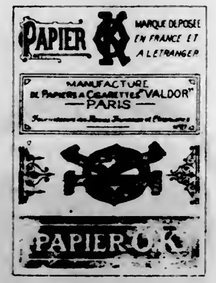
Particular description of goods.—Cotton Piece Goods, Silk Piece Goods, Woolen Piece Goods, and Combinations Thereof, Sheeting, Muslins, Bedding, Sheets, Pillow-Cases, Linen Piece Goods, and Blankets Composed of Cotton, Wool, Jute, and Combinations Thereof.
Claims use since May 1, 1915.

Ser. No. 128,753. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BUSH ELECTRIC COMPANY, Cleveland, Ohio. Filed Feb. 24, 1920.



Particular description of goods.—Wire-Tapping Machines, Wire-Cutters, Insulated Tree-Pruners, Insulated Tree-Trimming Saws, and Insulated Electrical Fuse Emplacing and Removing Implements.
Claims use since about Jan. 1, 1920.

Ser. No. 128,932. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES EMILE PFEIFFER, Paris, France. Filed Feb. 26, 1920.



No claim is made to the words "Papier, Marque Déposée en France et a L'Étranger, Manufacture de Papiers a Cigarettes, 'Valdor,' Paris, Fournisseurs des Régies Française et Etrangères, No. 27" apart from the mark as shown on the drawing.
Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.
Claims use since Sept. 30, 1919.

Ser. No. 128,937. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

VALDOR

Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.
Claims use since Dec. 16, 1919.

Ser. No. 128,938. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

CLÉOPATRE

Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.
Claims use since Dec. 18, 1919.

Ser. No. 128,940. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

"LAFAYETTES"

Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.
Claims use since Dec. 18, 1919.

Ser. No. 129,143. (CLASS 2. RECEPTACLES.) ALEXANDER HERZ, New York, N. Y. Filed Mar. 2, 1920.

X-RAY

Particular description of goods.—Merchandise-Envelops.
Claims use since about Sept. 1, 1918.

Ser. No. 130,469. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN E. GILSON, Port Washington, Wis. Filed Apr. 1, 1920.

TRIPLEX

Particular description of goods.—Combination Wheeled Hoes, Cultivators, and Plows.
Claims use since Mar. 24, 1919.

Ser. No. 130,775. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SVENSKA AKTIEBOLAGET NOBEL-DIESEL, Nynäshamn, Sweden. Filed Apr. 7, 1920.



Particular description of goods.—Internal-Combustion Engines, Both Stationary and Marine and for Use in All Kinds of Vehicles, Such as Motor-Cars, Motor-Trucks, Locomotives, Locomobiles, Tractors, Fire-Engines, Motor-Plows, and for Aeroplanes and Airships; Governors, Lubricators, Motor-Brakes, Valve-Gear for Motors; Ignition-Tubes, (Non-Electrical;) Air and Fuel Compressors for Internal-Combustion Engines, Shafting, Piping for Internal-Combustion Engines, Smoke-Consuming Apparatus, Exhausts for Internal-Combustion Engines, Exhaust-Silencers, Carbureters, Liquid-Fuel Atomizers for Internal-Combustion Engines, Coolers for Internal-Combustion Engines, Starting-Gear and Driving-Gear for Internal-Combustion Engines, Cast and Forged Parts for Internal-Combustion Engines.
Claims use since Apr. 30, 1910.

Ser. No. 131,079. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FREDERIC PESMAN MATTHEWS, London, England. Filed Apr. 13, 1920.



No claim being made to the representation of the saucepans shown in the drawing.
Particular description of goods.—Bun-Tins, Aluminum Saucepans and Stew-Pans.
Claims use since Feb. 21, 1919.

Ser. No. 131,542. (CLASS 7. CORDAGE.) THE SMITH-MONARK COMPANY, Cleveland, Ohio. Filed Apr. 23, 1920.



No claim being made to the words "Auto-Tow Line" or the representation of a tow-line apart from the mark shown in the drawing.
Particular description of goods.—Automobile Tow-Lines.
Claims use since Jan. 15, 1920.

Ser. No. 131,844. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE WIL-MAR CO., Baltimore, Md. Filed Apr. 29, 1920.



The mark is shown in red on a white background.
Particular description of goods.—Bottled Soda-Water and Soda-Water Flavor, Extract, and Syrup.
Claims use since May, 1918.

Ser. No. 132,034. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE T. C. POWER COMPANY, Helena, Mont. Filed May 4, 1920.



Particular description of goods.—Farm Implements Consisting of Binders, Mowers, Rakes, Cultivators, Harrows, Weeders, Manure-Spreaders, Stackers, Tedders, Silage-Cutters, Ditchers, Land-Rollers, Pitchforks, Shovels, Spades, and Garden-Rakes.
Claims use since Jan. 1, 1913.

Ser. No. 133,127. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE CLEVELAND DENTAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed June 1, 1920.

Standard Exolever

Particular description of goods.—Dental Instruments.
Claims use since October, 1919.

Ser. No. 133,681. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LOUIS ROTHSCHILD, Philadelphia, Pa. Filed June 14, 1920.



No claim being made for the word "Twinlock" apart from the mark shown by the drawing.
Particular description of goods.—Spare-Tire Carriers.
Claims use since about JAN. 1, 1920.

Ser. No. 133,738. (CLASS 37. PAPER AND STATIONERY.) LITHOGRAPHERS COOPERATIVE ASSOCIATION, Washington, D. C. Filed June 15, 1920.

INDEMNITY

Particular description of goods.—Writing and Printing Paper, Specifically Safety-Paper for Various Checks, Drafts, Notes, Vouchers, Negotiable Instruments.
Claims use since about July 1, 1919.

Ser. No. 133,800. (CLASS 43. THREAD AND YARN.) STEVENS YARN COMPANY, INC., New York, N. Y. Filed June 16, 1920.



Particular description of goods.—Thread and Yarn.
Claims use since Feb. 1, 1919.

Ser. No. 134,311. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed June 28, 1920.



No claim is made to the words "Electric Burner" apart from the mark shown in the drawing.
Particular description of goods.—Stationary Induction Apparatus—Namely, Transformers Used for Heating, Welding, and the Like.
Claims use since some time in January, 1920.

Ser. No. 134,344. (CLASS 12. CONSTRUCTION MATERIALS.) BRANDMEIR-ROUNDS LUMBER CO., Seattle, Wash. Filed June 29, 1920.



No claim is made to the words "Lumber, Shingles, and Pacific Coast" aside from the mark shown in the drawing.
Particular description of goods.—Lumber, Shingles, and Laths.
Claims use since Nov. 15, 1919.

Ser. No. 134,345. (CLASS 12. CONSTRUCTION MATERIALS.) BRANDMEIR-ROUNDS LUMBER CO., Seattle, Wash. Filed June 29, 1920.



No claim is made to the words "Brandmeir, Rounds, Lumber, Shingles," and "Pacific Coast," aside from the mark shown in the drawing.
Particular description of goods.—Lumber, Shingles, and Laths.
Claims use since Nov. 15, 1919.

Ser. No. 135,139. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES DAVIS, Paris, France. Filed July 19, 1920.

NILDÉ

Particular description of goods.—Face-Powder, Rouge, and Massage-Cream.
Claims use since November, 1914.

Ser. No. 135,258. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed July 22, 1920.



The exclusive right to the use of the words "Seneca" and "Standard" is disclaimed apart from the mark as shown.
Particular description of goods.—Tripoli Flour, (Ground Tripoli Stone.)
Claims use since May, 1916.

Ser. No. 135,307. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN A. SCHWARZ, INC., New York and Brooklyn, N. Y. Filed July 22, 1920.

THE "JOHN-A" MATTRESS

No claim is made to the word "Mattress" apart from the mark as shown in the drawing.
Particular description of goods.—Mattresses.
Claims use since Sept. 1, 1910.

Ser. No. 135,381. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NECEDAH MANUFACTURING CO., Necedah, Wis. Filed July 24, 1920.



The words "Necedah Timer for Ford Car" are disclaimed and the words "Best of All" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Spark-Timers for Internal-Combustion Engines.
Claims use since May 20, 1920.

Ser. No. 135,454. (CLASS 39. CLOTHING.) W. RAVEN & Co. LTD., Leicester, England. Filed July 27, 1920.



Particular description of goods.—Dyed Hosiery.
Claims use since Dec. 17, 1908.

Ser. No. 136,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES H. BOYST, Greensboro, N. C. Filed Aug. 12, 1920.

B&B

Particular description of goods.—Pieces of Chewing-Candy Commonly Known as Kisses.
Claims use since Oct. 25, 1905.

Ser. No. 136,767. CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE G. H. REMPES ELECTRIC COMPANY, Cleveland, Ohio. Filed Sept. 2, 1920.

BullDog



No claim is made to the representation of a battery or a battery-clip apart from the mark shown in the drawing.
Particular description of goods.—Storage Batteries and Test-Clips and Battery-Clamps for Storage Batteries.
Claims use since Oct. 1, 1919.

Ser. No. 137,379. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) INTERNATIONAL COAL PRODUCTS CORPORATION, Bristol, Va., and New York, N. Y. Filed Sept. 20, 1920.



Particular description of goods.—Briquets Made from Coal.
Claims use since Feb. 19, 1920.

Ser. No. 137,380. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) INTERNATIONAL COAL PRODUCTS CORPORATION, Bristol, Va., and New York, N. Y. Filed Sept. 20, 1920.



Particular description of goods.—Briquets Made from Coal.
Claims use since Feb. 19, 1920.

Ser. No. 137,415. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. JONES MEDICINE COMPANY, Springfield, Mo. Filed Sept. 21, 1920.

CO-LAX

Particular description of goods.—A Tonic for Constipation, Colon Intestinal Poison, Acute Gastric Catarrh of the Stomach and Intestines, Nervous Dyspepsia, Indigestion, Bloating and Gas in the Bowels, Sour Stomach, Biliousness, Colic, Dysentery, Cholera Morbus, Cramps, Neuralgia of the Stomach, Belching, Headache, Dizziness, Bad Breath, Coated Tongue, and Loss of Appetite.
Claims use since January, 1919.

Ser. No. 137,643. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Sept. 25, 1920.

Angel

Particular description of goods.—Diaper-Cloth.
Claims use since June 20, 1920.

Ser. No. 137,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. G. ABRAHAM COMPANY, Moline, Ill. Filed Sept. 27, 1920.

DELTANUT

Particular description of goods.—Candy.
Claims use since Aug. 1, 1920.

Ser. No. 137,894. (CLASS 32. FURNITURE AND UPHOLSTERY.) SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill. Filed Oct. 4, 1920.

Silvertone

Particular description of goods.—Phonograph-Cabinets and Wooden Stands and Supports for the Same.
Claims use since October, 1915.

Ser. No. 138,054. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FRED E. LAMPE, New York, N. Y. Filed Oct. 7, 1920.

SODDER-RITE

Particular description of goods.—Solder in Paste Form.
Claims use since Dec. 2, 1919.

Ser. No. 138,083. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BARNES-ROSS COMPANY, Indianapolis, Ind. Filed Oct. 8, 1920.

The Prism

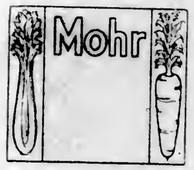
Particular description of goods.—Monthly Publication.
Claims use since Dec. 11, 1919.

Ser. No. 138,156. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALASKA CHEMICAL COMPANY, Jersey City, N. J. Filed Oct. 11, 1920.

PERSO-LAMB

No claim is made to the exclusive use of the word "Lamb" except as associated with the other features of the mark as shown in the drawing.
Particular description of goods.—Black-Dyed Lambskins, and More Particularly for Black-Dyed Lambskins Cut or Sheared in Imitation of Persian Lamb or Broadtail.
Claims use since Aug. 1, 1920.

Ser. No. 138,260. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOHR FOOD PRODUCTS, INC., New York, N. Y. Filed Oct. 13, 1920.



No claim is made to the representation of a stalk of celery and a raw carrot apart from the mark shown on the drawing.
Particular description of goods.—A Vegetable Extract in Paste Form to be Used as a Base for Soup Gravies, and Flavoring for Food.
Claims use since July 1, 1920.

Ser. No. 138,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TONY F. BOGEKE, East Millinocket, Me. Filed Oct. 19, 1920.



The picture shown is a facsimile of the picture of the applicant.
Particular description of goods.—Medicine for the Relief of Sufferers from Cold and Consumption.
Claims use since June 2, 1920.

Ser. No. 138,595. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. W. RYCROFT & CO., New York, N. Y. Filed Oct. 20, 1920.



Particular description of goods.—Cotton Piece Goods.
Claims use since 1907.

Ser. No. 138,621. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN TANSUL COMPANY, San Francisco, Calif. Filed Oct. 21, 1920.

TANSUL

Particular description of goods.—Material for Chill-Proofing and Stabilizing Beverages.
Claims use since June 1, 1918.

Ser. No. 138,627. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BRIDGEPORT BRASS COMPANY, Bridgeport, Conn. Filed Oct. 21, 1920.

Crown

Particular description of goods.—Tire-Pumps.
Claims use since on or about July 1, 1911.

Ser. No. 138,702. (CLASS 37. PAPER AND STATIONERY.) KENNETH W. BROWN, Yonkers, N. Y. Filed Oct. 23, 1920.

GOLFOGRAM

Particular description of goods.—Golf Score-Pads and Cards and Covers Therefor.
Claims use since Sept. 23, 1920.

Ser. No. 138,939. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BOOTH BROTHERS (DIAL FOUNDRY) LIMITED, Stourbridge, England. Filed Oct. 29, 1920.

EMPIRE

Particular description of goods.—Heel-Plates and Toe-Plates for Boots and Shoes.
Claims use since January, 1911.

Ser. No. 138,945. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. C. ENO, LIMITED, London, England. Filed Oct. 29, 1920. Under ten-year proviso.

ENO

Particular description of goods.—A Saline Aperient.
Claims use since 1874.

Ser. No. 139,059. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SUDAN IMPORT AND EXPORT COMPANY, Cairo, Egypt, and Khartoum, Sudan. Filed Nov. 1, 1920.

SIEC

Particular description of goods.—Gum-Arabic, Mother-of-Pearl Shells, Ivory, and Dari-Seed.
Claims use since July 3, 1919.

Ser. No. 139,564. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) COM-BAH FIBROID COMPANY, Boston, Mass. Filed Nov. 12, 1920.

COM-BAH

Particular description of goods.—Toilet-Seats.
Claims use since July 1, 1917.

Ser. No. 139,566. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Nov. 12, 1920.

COMMERCIAL UNION OF AMERICA

Particular description of goods.—Wheat-Flour.
Claims use since June 5, 1920.

Ser. No. 139,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Nov. 12, 1920.

STRAND

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 20, 1920.

Ser. No. 139,609. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Filed Nov. 13, 1920.



Particular description of goods.—Steel Castings.
Claims use since May 1, 1920.

Ser. No. 139,615. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HEINTZ, MERKLE & COMPANY, Philadelphia, Pa. Filed Nov. 13, 1920.

Taste-Tells

Particular description of goods.—Mayonnaise, Mince-Meat, and Salted Peanuts.
Claims use since about Oct. 16, 1920.

Ser. No. 139,680. (CLASS 39. CLOTHING.) JOHN J. STEIN, Chicago, Ill., assignor to Northwestern Coat Company, Inc., a Corporation of Illinois. Filed Nov. 15, 1920.

Northwestern Coat Co.
NOWESCO GARMENTS

The word "Garments" is disclaimed.
Particular description of goods.—Physicians', Dentists', and Their Assistants' Coats, Gowns, Aprons, Covers, as Well as Their Patients' Coats, Gowns, Aprons, and Covers.
Claims use since May 1, 1917.

Ser. No. 139,763. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Nov. 17, 1920.

ENZYMAZE

Particular description of goods.—An Ingredient in Powder Form Containing Diastatic and Proteolytic Enzyms Produced by the Action of Enzym-Producing Fungus Upon Carbohydrate and Protein Substances and Used in the Manufacture of Bakery Products to Conserve Sugar and Yeast in the Fermentation of the Dough.
Claims use since Oct. 6, 1920.

Ser. No. 139,844. (CLASS 5. ADHESIVES.) BUXTON & SKINNER PRINTING AND STATIONERY COMPANY, St. Louis, Mo. Filed Nov. 19, 1920.

Cote Brilliante

Particular description of goods.—Mucilage.
Claims use since January, 1893.

Ser. No. 139,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS M. HUNTER, Portland, Oreg. Filed Nov. 20, 1920.



The portrait shown being that of the applicant and the words "Hunter's Salve" being disclaimed apart from the other features of the mark.
Particular description of goods.—A Salve Used Externally as a Treatment for Tuberculosis, Kidney Trouble, Colds, Influenza, Blood-Poison, Bruises, Boils, and Bunions.
Claims use since Sept. 1, 1920.

Ser. No. 139,979. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Nov. 22, 1920.

LYKADREME

Particular description of goods.—Perfume, Toilet Water, Face-Powder, Bath-Powder, Talcs, Bath-Salts, Cold-Cream, Dry Cream, Tooth-Powder, Tooth-Paste, Toilet Rouge, Lip-Rouges, Eyebrow-Pencils, Smelling-Salts, Shampoo Preparations, Hair-Tonics, Nail-Polishes, and Deodorant Preparations.
Claims use since Oct. 26, 1920.

Ser. No. 139,980. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON, COWDIN & COMPANY, INC., New York, N. Y. Filed Nov. 22, 1920.

ITZADREME

Particular description of goods.—Perfume, Toilet Water, Face-Powder, Bath-Powder, Talcs, Bath-Salts, Cold-Cream, Dry Cream, Tooth-Powder, Tooth-Paste, Toilet Rouge, Lip-Rouges, Eyebrow-Pencils, Smelling-Salts, Shampoo Preparations, Hair-Tonics, Nail-Polishes, and Deodorant Preparations.
Claims use since Oct. 26, 1920.

Ser. No. 140,042. (CLASS 39. CLOTHING.) LORETTE CORSET CO., Chicago, Ill. Filed Nov. 23, 1920.

Marvel Fit
FRONT LACE

The words "Front Lace" do not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Corsets.
Claims use since Oct. 1, 1920.

Ser. No. 140,529. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HADLEY BROS.-UHL COMPANY, St. Louis, Mo. Filed Dec. 2, 1920.

Spee-D-Patch

Disclaimer is hereby made to the word "Patch" apart from the mark as shown in the drawing.
Particular description of goods.—Rubber Patches for Automobile-Tube Punctures and Tire-Repairs.
Claims use since on or about Aug. 1, 1920.

Ser. No. 140,530. (CLASS 5. ADHESIVES.) HADLEY BROS.-UHL COMPANY, St. Louis, Mo. Filed Dec. 2, 1920.

OKEH

Particular description of goods.—Rubber Cement, Such as Channel-Cement, Hot-Cure Vulcanizing-Cement, Cold-Cure Patching-Cement, Puncture-Preventive Tire Fluid, Bicycle-Wood-Rim Cement, Bicycle Rubber Cement, and Milliners' Cement.
Claims use since on or about Aug. 1, 1919.

Ser. No. 140,629. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ASHCRAFT-WILKINSON COMPANY, Atlanta, Ga. Filed Dec. 6, 1920.



No claim being made to the exclusive right to the use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Cotton-Seed Meal for Use as an Animal Food.
Claims use since Jan. 6, 1916.

Ser. No. 140,780. (CLASS 39. CLOTHING.) DOLLFUS MIEG & CIE, SOCIETE ANONYME, Mulhouse, France. Filed Dec. 8, 1920.

DMC

Particular description of goods.—Hosiery.
Claims use since about 1841.

Ser. No. 140,785. (CLASS 39. CLOTHING.) DOLLFUS MIEG & CIE, SOCIETE ANONYME, Mulhouse, France. Filed Dec. 8, 1920.

DMC

Particular description of goods.—Hosiery.
Claims use since about 1841.

Ser. No. 141,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed Dec. 14, 1920.

SNOW FLAKE

Particular description of goods.—Salted Wafers, Soda Crackers, and Plain Unsalted Crisp Wafers.
Claims use since Oct. 1, 1913.

Ser. No. 141,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY C. TRUMBOWER, Philadelphia, Pa. Filed Dec. 14, 1920.

POUF

Particular description of goods.—Hygienic Chafing and Healing Powder for Soreness or Irritation Caused by Chafing or Prickly Heat and Deodorant for All Forms of Perspiration or Body-Odors.
Claims use since Dec. 1, 1920.

Ser. No. 141,145. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass. Filed Dec. 15, 1920.

PARAGON

Particular description of goods.—Collets, Thread-Cutting Dies, and Guides Therefor, Die-Holders, Screw-Plates, Screw-Plate Stocks.
Claims use since 1908.

Ser. No: 141,216. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa. Filed Dec. 17, 1920.

MOLYBDEMITE

Particular description of goods.—Ferrous Metals.
Claims use since Oct. 28, 1920.

Ser. No. 141,217. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa. Filed Dec. 17, 1920.

MOLYBDEMITE

Particular description of goods.—Ferrous Metals.
Claims use since Oct. 28, 1920.

Ser. No. 141,218. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa. Filed Dec. 17, 1920.

MOLYBDEMITE

Particular description of goods.—Ferrous Metals.
Claims use since Oct. 28, 1920.

Ser. No. 141,308. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM G. HEIMERDINGER, Louisville, Ky. Filed Dec. 20, 1920.



The drawing shows a lining indicating a red coloration. No claim is made to the word "Brand" apart from the mark shown by the drawing.
Particular description of goods.—Sheep-Shears, Mule-Shears, Grass, Hedge, and Pruning Shears.
Claims use since about Sept. 1, 1920.

Ser. No. 141,364. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY FRUECHTENICHT, Louisville, Ky. Filed Dec. 21, 1920.

BLUE GRASS

Particular description of goods.—Horse Feed, Cattle and Dairy Feed, Poultry Feed, and Hog Feed.
Claims use since 1908.

Ser. No. 141,380. (CLASS 5. ADHESIVES.) LEOPOLD J. LIPPMANN, New York, N. Y., assignor to Holdzem Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 21, 1920.

"HOLDZEM"



Particular description of goods.—Adhesive Vermin-Exterminator.
Claims use since on or about July 1, 1920.

Ser. No. 141,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVIS SYSTEM BAKERY, Kansas City, Mo. Filed Dec. 24, 1920.

Daisybake

Particular description of goods.—Cream-Filled Pastries.
Claims use since Nov. 1, 1919.

Ser. No. 141,499. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAURICE COMPANY, Cleveland, Ohio. Filed Dec. 24, 1920.

CHOCOLATE

No claim is made to the exclusive right to the words "Hot" and "Chocolate" except for an arrangement like that shown in the drawing.
Particular description of goods.—Prepared Chocolate.
Claims use since about Oct. 3, 1919.

Ser. No. 141,553. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHEMICAL WORKS FLORA, Dübendorf, Switzerland. Filed Dec. 28, 1920.



The word "Produits" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Essences, Fruit-Oils, and Syrup for Food-Flavoring Purposes.
Claims use since July 19, 1919.

Ser. No. 141,561½. (CLASS 39. CLOTHING.) JOHN PATTERSON, JUNR., Aldershot, England. Filed Dec. 28, 1920.

SPRINGBOK

Particular description of goods.—Braces for Wear, Sock and Stocking Suspenders, Garters, Hosiery.
Claims use since Mar. 4, 1909, on braces for wear and hosiery and since Sept. 24, 1920, on sock and stocking suspenders and garters.

Ser. No. 141,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MELVINA BODENDICK, Kansas City, Mo. Filed Dec. 31, 1920.

IT REACHES THE SPOT

Particular description of goods.—Internal Medicine for Hog-Cholera.
Claims use since Dec. 17, 1920.

Ser. No. 141,783. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. KANE & Co., Philadelphia, Pa. Filed Jan. 3, 1921.

KAN-A-KO

Particular description of goods.—General Tonic.
Claims use since June 15, 1920.

Ser. No. 141,804. (CLASS 12. CONSTRUCTION MATERIALS.) RAYMOND GRANITE COMPANY, San Francisco and Los Angeles, Calif. Filed Jan. 3, 1921.



Applicant disclaims the word "Granite" apart from the mark shown.
Particular description of goods.—Construction Materials—Namely, Interior and Exterior Building-Stones, Street-Curbing, and Cemetery-Coping.
Claims use since February, 1916.

Ser. No. 141,912. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES W. MCKEOUGH, Los Angeles, Calif. Filed Jan. 6, 1921.

SANIDAD

Particular description of goods.—A Vegetable Compound for the Stomach and Liver, Kidneys, and Blood.
Claims use since Dec. 2, 1919.

Ser. No. 141,926. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES AUGUST SUHR, West Hoboken, N. J. Filed Jan. 6, 1921.

TONO-VITAMINE

Consisting of the word "Tono-Vitamine," no claim being made to the exclusive use of the word "Vitamine" apart from the mark as shown on the drawing.
Particular description of goods.—A Reconstructive and Strengthening Tonic.
Claims use since about January, 1914.

Ser. No. 141,929. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE STANLEY WORKS, New Britain, Conn. Filed Jan. 6, 1921.

STANLEY S.W.

Particular description of goods.—Vises, Bit-Braces, Breast-Drills, Planes and Parts Thereof, Scrapers for Rubbing Down or Rubbing Off a Surface, Toothing-Cutters, Spokeshaves, Nail-Sets, Cornering-Tools, Blind-Nail Tools, Hammers, Mallets, Screwdrivers, Ice-Picks, Awls, Awl-Hafts, Chisels; Hollow-Handle Tool Sets Embracing Gimlet, File, Saw, Gouge, Chisel, Reamer, Brad-Awl, Scratch-Awl, Screwdriver, Tack-Puller, Belt-Awl; Punches, Miter-Boxes, Shoot-Boards, Saw-Sets, Doweling-Jigs, Dowel and Rod Turning Machines, Grinding-Fixtures, Beaders, Bench-Dogs, Bit-Brace Tools, Bit-Holders, Sledges, Wedges; Drills—Namely, an Instrument for Cutting Holes; Mauls, Casing-Rippers, Anvil-Tools, Drift-Pins, Rivet-Sets, Hoop-Sets, Hoop-Drivers, Pritchels, Rail-Forks, Tongs, Tool-Bars, Picks, Wrenches; Stoneworkers' Tools—viz., Pitching-Tools, Line-Tracers, Points, and Markers; Flue-Beaters, Drill-Sharpening Tools, Calking-Tools.
Claims use since Nov. 27, 1920.

Ser. No. 141,976. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Jan. 8, 1921.

Little Giant

Particular description of goods.—Gages—to wit, Plain Cylindrical Plug and Ring Gages, Plug or Male-Thread Gages, Female or Ring (Templet) Thread Gages, Fork or Thread Limit Snap-Gages; Plain Limit Snap-Gages, (Plain or Thread;) Screw-Pitch Gages, and Lead-Testers—and Micrometers.
Claims use since as early as January, 1911.

Ser. No. 142,036. (CLASS 39. CLOTHING.) A. STEIN & COMPANY, Chicago, Ill. Filed Jan. 10, 1921.



The lining on the drawing submitted herewith is for shading only and is not intended to indicate color. No claim is made for the use of the words "Shield Garter" or for the words "For Your Comfort" as a part of the trade-mark herein set forth.
Particular description of goods.—Garters.
Claims use since January, 1913.

Ser. No. 142,118. (CLASS 39. CLOTHING.) E. A. WEIL COMPANY, East Savannah, Ga. Filed Jan. 11, 1921.

L. C. Smith

The name of "L. C. Smith" being a facsimile of the signature of one L. C. Smith.
Particular description of goods.—Shoes Made of Leather, Canvas, and Rubber.
Claims use since 1906.

Ser. No. 142,120. (CLASS 39. CLOTHING.) SAM ADELMAN & Co., Chicago, Ill. Filed Jan. 12, 1921.



The expression "Better Made Clothes" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Men's Clothing—Namely, Overcoats, Suits, Mackinaws, Pants, Raincoats, and Sheepskin Coats.
Claims use since Jan. 1, 1908.

Ser. No. 142,228. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUTUAL BISCUIT COMPANY, San Francisco, Calif. Filed Jan. 13, 1921.

TOP NOTCH

Particular description of goods.—Fancy Cakes.
Claims use since Mar. 15, 1912.

Ser. No. 142,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Jan. 15, 1921.

Mavis Patties

Particular description of goods.—Rouge and Face-Powder in Compact Form.
Claims use since Dec. 21, 1920.

Ser. No. 142,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAMPION MILLING & GRAIN CO., Clinton, Iowa. Filed Jan. 17, 1921.

CHAMPION

Particular description of goods.—Dairy, Stock, and Poultry Mixed Feeds.
Claims use since Aug. 18, 1903.

Ser. No. 142,339. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) INTERNATIONAL SILVER COMPANY, Meriden and Waterbury, Conn. Filed Jan. 17, 1921. Under ten-year proviso.

★ ROGERS & BRO.

Particular description of goods.—Silver-Plated Flat-Ware—Namely, Forks, Spoons, Ladles, and Knives.
Claims use since 1858.

Ser. No. 142,389. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HENRY B. GILPIN CO., Baltimore, Md. Filed Jan. 18, 1921.

Gilco

Particular description of goods.—Syrup of Hypophosphites Compound, Compound Syrup White Pine and Tar, Solution Citrate of Magnesia, Mineral Oil Used as a Medicine, Ammonia, Antiseptic Solution, Alkaline Antiseptic Solution, and Menthol-Inhaler.
Claims use since April, 1920.

Ser. No. 142,505. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLARD S. MARTIN, Plainfield, Vt. Filed Jan. 20, 1921.

GREATWOOD

Particular description of goods.—Maple-Sugar, Fresh Milk, Fresh Cream, Butter, Cheese, and Eggs.
Claims use since Jan. 1, 1917.

Ser. No. 142,518. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Jan. 20, 1921.

CHAR-MING

Consisting of the term "Charming," no claim being made to the exclusive right to the use of the word "Charming."
Particular description of goods.—Silk Piece Goods.
Claims use since November, 1920.

Ser. No. 142,720. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE QUAKER OATS COMPANY, Chicago, Ill. Filed Jan. 24, 1921.

ACCO

Particular description of goods.—Wheat-Flour and Rolled Oats.
Claims use since 1905.

Ser. No. 142,722. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RADIOL LABORATORIES, Cincinnati, Ohio. Filed Jan. 24, 1921.

RADIOL

Particular description of goods.—Ointment for the Treatment of Eczema and other Itching Skin Diseases, Pimples, &c.
Claims use since Jan. 1, 1921.

Ser. No. 142,737. (CLASS 43. THREAD AND YARN.) VICTOR SHOE MACHINERY COMPANY, Lynn, Mass. Filed Jan. 24, 1921.

Vsmc

Particular description of goods.—Shoe-Thread.
Claims use since Oct. 1, 1912.

Ser. No. 142,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. HERB HANDLEY, Ogdensburg, N. Y. Filed Jan. 25, 1921.

"UNO"

Particular description of goods.—Bread.
Claims use since March, 1916.

Ser. No. 142,764. (CLASS 37. PAPER AND STATIONERY.) NATIONAL THRIFT ASSOCIATION, Minneapolis, Minn. Filed Jan. 25, 1921.

PAYDAY

The word-symbol "Payday."
Particular description of goods.—Certificates of Deposit, Savings-Books, Checks, Money-Orders, Deposit-Slips, Travelers' Checks, Promissory Notes, and Receipts.
Claims use since about Mar. 2, 1919.

Ser. No. 142,817. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TWILL MANUFACTURING CO., Prescott, Iowa. Filed Jan. 26, 1921.

TWILL

Particular description of goods.—A Powder to be Used on the Feet and Armpits.
Claims use since Dec. 2, 1920.

Ser. No. 142,830. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DICKS, DAVID CO., INC., New York, N. Y. Filed Jan. 27, 1921.

RED-ARROW

Particular description of goods.—Anilin and other Dyestuffs and Related Products.
Claims use since on or about Oct. 26, 1920.

Ser. No. 142,874. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOERICKE & TAFEL, Philadelphia, Pa. Filed Jan. 28, 1921.

Alpha

Particular description of goods.—Preparations for the Treatment of the Following Disorders: Cholera, Painful Menses, Cold in the Head, Lumbago, Neuralgia, Gaseous Indigestion; Warts, (Flat;) Warts, (Fungoid;) Foot-Sweat, Sciatica, Sick Headache, Sties, Biliousness, Measles, Difficult Urination, Dribbling of Urine, Neuritis, Pyorrhea, Mumps, Earache, Hay-Fever, Hives, Frequent Urination.
Claims use since May 20, 1916.

Ser. No. 142,880. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FOAMITE FIREFOAM COMPANY, New York, N. Y. Filed Jan. 28, 1921.

ALLWEATHER

Particular description of goods.—Hand-Operated, Portable, or Stationary Fire-Extinguishers.
Claims use since Dec. 1, 1920.

Ser. No. 142,907. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST REDD, Birmingham, Ala. Filed Jan. 28, 1921.

TANGO

Particular description of goods.—Grain and Horse Feed.
Claims use since September, 1912.

Ser. No. 143,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. ABRAMOVITZ & CO. INC., New York, N. Y. Filed Feb. 1, 1921.

SOPRANO

Particular description of goods.—Canned Fish.
Claims use since June 1, 1920.

Ser. No. 143,077. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y. Filed Feb. 2, 1921.

AMLITE

Particular description of goods.—Wire Cloth and Netting.
Claims use since Dec. 10, 1920.

Ser. No. 143,219. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 5, 1921.

MOONSTAR
EDIBLE
COCOANUT OIL

No claim is made for the words "Edible Cocoanut Oil" apart from the mark as shown in the drawing.
Particular description of goods.—Edible Cocoanut-Oil.
Claims use since Jan. 11, 1921.

Ser. No. 143,220. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERFECTION BISCUIT COMPANY, Fort Wayne, Ind. Filed Feb. 5, 1921.

CANDICAKE

Particular description of goods.—A Sandwich-Cake with Filler of Sugar Cream, the Whole Covered with Chocolate.
Claims use since Jan. 3, 1921.

Ser. No. 143,235. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELSIE C. WIPPEL, Cincinnati, Ohio. Filed Feb. 5, 1921.

Lady Love

Particular description of goods.—Talcum Powders, Face-Powders, Massage-Creams, Rouges, Toilet Waters, Perfumes, Sachet-Powders, Lip-Sticks, Face Lotions and Creams.
Claims use since the middle of June, 1920.

Ser. No. 143,308. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WESTERN ALUMINUM MANUFACTURING COMPANY, Emeryville, Calif. Filed Feb. 7, 1921.

MISSION

Particular description of goods.—Cast, Pressed, and Spun Aluminum Cooking Utensils Consisting of Pots, Pans, Kettles.
Claims use since Oct. 1, 1920.

Ser. No. 143,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KEMIKO CO., Newark, N. J. Filed Feb. 9, 1921.

VAPOGRAN

Particular description of goods.—Disinfectants and Deodorants.
Claims use since about Sept. 20, 1920.

Ser. No. 143,389. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Feb. 10, 1921.

OPTOLACTIN

Particular description of goods.—A Preparation of Mixed Cultures of the *Bacillus Bulgaricus*, Type A, and of the *Bacillus Acidophilus*, Two Different Types of the Milk-Souring Bacilli, in the Form of Liquid Culture, Powder, or Tablets. It May be Used for Souring Milk, Making Bulgarian Milk, Making Certain Forms of Food, and May Also be Taken by Mouth for Therapeutic Purposes.
Claims use since Jan. 1, 1921.

Ser. No. 143,393. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOOSE WILES BISCUIT COMPANY, Long Island City, N. Y. Filed Feb. 10, 1921.

Corolla

Particular description of goods.—Cakes, Crackers, and Biscuits.
Claims use since Jan. 26, 1921.

Ser. No. 143,413. (CLASS 12. CONSTRUCTION MATERIALS.) J. W. TURNBULL LUMBER COMPANY, Philadelphia, Pa. Filed Feb. 10, 1921.

BULL

Particular description of goods.—Cut Timber Adapted for Construction-Work, Rough Lumber, Partly-Dressed Lumber, and Wholly-Dressed Lumber.
Claims use since Oct. 1, 1920.

Ser. No. 143,439. (CLASS 39. CLOTHING.) IVY CORSET COMPANY, Worcester, Mass. Filed Feb. 11, 1921.

IVY

Particular description of goods.—Garters and Hose-Supporters.
Claims use since September, 1920.

Ser. No. 143,445. (CLASS 37. PAPER AND STATIONERY.) GEORGE L. MILLER, Cumberland, Md. Filed Feb. 11, 1921.

THE LBS.

Particular description of goods.—Lawyer's Systematized Diary and Record Ledger-Books.
Claims use since Jan. 1, 1921.

Ser. No. 143,448. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALBERT PICK & COMPANY, Chicago, Ill. Filed Feb. 11, 1921.

GOODIE GARDEN

Particular description of goods.—Soda-Fountains.
Claims use since Jan. 31, 1920.

Ser. No. 143,461. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Feb. 11, 1921.

"DIAMOND EDGE IS A QUALITY PLEDGE"

Particular description of goods.—T-Bevels, Hatchet-Gages, Squares, and Wing-Dividers.
Claims use since September, 1909.

Ser. No. 143,477. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LAWRENCE C. BRIGHT, Reading, Pa. Filed Feb. 12, 1921.

FRUIT-KIST

Particular description of goods.—Soft-Drink Syrups.
Claims use since about Sept. 1, 1920.

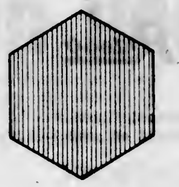
Ser. No. 143,479. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM J. BRENDEL, Catonsville, Md. Filed Feb. 12, 1921.

CATON



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same, and Spring-Water, Carbonated and Still.
Claims use since Jan. 1, 1903.

Ser. No. 143,513. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PACKARD MOTOR CAR COMPANY, Detroit, Mich. Filed Feb. 12, 1921.



Consists of a hexagonal figure colored in red.
Particular description of goods.—Automobiles.
Claims use since about Jan. 1, 1913.

Ser. No. 143,520. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. TRASK, Salem, Mass. Filed Feb. 12, 1921.

Q-RIT

Particular description of goods.—Salve for Cuts, Burns, Sores, Bruises, Boils, and all Skin Diseases.
Claims use since Nov. 1, 1920.

Ser. No. 143,599. (CLASS 39. CLOTHING.) HOLLAND SHOE CO., Holland, Mich. Filed Feb. 15, 1921.

"RUFF'N TUFF"

Particular description of goods.—Leather Footwear.
Claims use since Jan. 22, 1921.

Ser. No. 143,674. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TANSCH COMPANY, Chicago, Ill. Filed Feb. 16, 1921.

TANSCH

Particular description of goods.—An Antiseptic for Use After Shaving.
Claims use since Jan. 27, 1921.

Ser. No. 143,691. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES W. GRIFFIN, Waterloo, Iowa. Filed Feb. 17, 1921.

TRUNOX

Particular description of goods.—Medicinal Preparation for the Treatment of Rheumatism and Diseases of the Head, Kidneys, Liver, Stomach, and Bowels.
Claims use since Nov. 3, 1920.

Ser. No. 143,697. (CLASS 39. CLOTHING.) THE LITTLE WITCH SHOE CO., Salem, Mass. Filed Feb. 17, 1921.

Little Witch

Particular description of goods.—Infants' and Children's Boots and Shoes Made Wholly or in Part of Leather and Cloth.
Claims use since Apr. 3, 1919.

Ser. No. 143,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 17, 1921.

Maytime

Particular description of goods.—Oleomargarin.
Claims use since Jan. 27, 1921.

Ser. No. 143,704. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 17, 1921.

WOODLAND

Particular description of goods.—Oleomargarin.
Claims use since Feb. 9, 1921.

Ser. No. 143,707. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 17, 1921. Under ten-year proviso.

DR. PRICE'S

Particular description of goods.—Baking-Powder.
Claims use since 1853.

Ser. No. 143,726. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed Feb. 17, 1921.

WESTEX

Particular description of goods.—Impregnated or Coated Woven Fabrics—Namely, Imitation-Leather and Waterproof Cloth.
Claims use since about Jan. 1, 1920.

Ser. No. 143,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed Feb. 17, 1921.

Minuet

Particular description of goods.—Talcum Powder.
Claims use since on or about Jan. 18, 1921.

Ser. No. 143,768. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICHOLAS JOHN MOLNAR, Roselle, N. J. Filed Feb. 18, 1921.

HELATED MENTHOL

Consisting of the words "Helated Menthol," no claim being made to the exclusive use of the word "Menthol" apart from the mark as shown on the drawing.
Particular description of goods.—A Medicinal Preparation for the Relief of Congestion and Inflammation.
Claims use since Feb. 7, 1921.

Ser. No. 143,780. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 18, 1921.

FRITINA

Particular description of goods.—Cooking-Fats.
Claims use since Feb. 9, 1921.

Ser. No. 143,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CO-OPERATIVE DRUG COMPANY, INCORPORATED, Philadelphia, Pa. Filed Feb. 19, 1921.

Perlox

Particular description of goods.—Perlox Face-Powder.
Claims use since July 21, 1903.

Ser. No. 143,809. (CLASS 39. CLOTHING.) THE DONALD SHOE COMPANY, Philadelphia, Pa. Filed Feb. 19, 1921.

WALKY WALKY

Particular description of goods.—Leather Shoes.
Claims use since Mar. 1, 1919.

Ser. No. 143,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEALTH LABORATORIES, Scranton, Pa. Filed Feb. 19, 1921.

Russo

Consisting of the word "Russo."
Particular description of goods.—A Specific for Blood Diseases.
Claims use since Jan. 10, 1914.

Ser. No. 143,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM R. WARNER & CO. INC., Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Filed Feb. 21, 1921. Under ten-year proviso.

BROMO (WARNER & CO.) SODA

Particular description of goods.—Medicine in the Form of a Headache-Salt Useful in Nervous Headache, Migraine, Epilepsy, Sleeplessness, and Brain Fatigue.
Claims use since July 20, 1886.

Ser. No. 143,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAL W. TUCKER, San Antonio, Tex. Filed Feb. 21, 1921.



Particular description of goods.—Coffee.
Claims use since Nov. 22, 1920.

Ser. No. 143,923. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE GRAFF FURNACE CO., New York, N. Y. Filed Feb. 23, 1921. Under ten-year proviso.

FAULTLESS

Particular description of goods.—Warm-Air, Coal, Wood, Gas, and Oil Furnaces and Cooking-Ranges.
Claims use since 1888.

Ser. No. 143,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUEHRMANN HAY & GRAIN CO., St. Louis, Mo. Filed Feb. 23, 1921.

BIG HORN

Particular description of goods.—Scratch Feed for Poultry and Horse and Mule Feed.
Claims use since about January, 1921.

Ser. No. 143,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NUFORAL LABORATORIES, INC., New York, N. Y. Filed Feb. 23, 1921.

NUFORAL

Particular description of goods.—A Preparation to be Used in the Treatment of Tuberculosis.
Claims use since Feb. 11, 1921.

Ser. No. 143,943. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NUFORAL LABORATORIES, INC., New York, N. Y. Filed Feb. 23, 1921.



Particular description of goods.—A Preparation to be Used in the Treatment of Tuberculosis.
Claims use since Feb. 11, 1921.

Ser. No. 143,954. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SYDNEY ROSS COMPANY, INC., Newark, N. J., and New York, N. Y. Filed Feb. 23, 1921.

FRESCODOR

Particular description of goods.—Talcum Powder.
Claims use since Sept. 1, 1920.

Ser. No. 143,957. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. RODIER & CIE., Paris and Courbevoie, France. Filed Feb. 23, 1921.

Lydés

Particular description of goods.—Perfumes, Toilet Creams, Hair-Lotions, Eau de Cologne, Dentifrices, Lip-Sticks, and Rouges.
Claims use since May, 1919.

Ser. No. 143,974. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET & TIN PLATE COMPANY, Pittsburgh, Pa. Filed Feb. 24, 1921.



No claim is made herein to the registration of the word "Brand" apart from the mark as shown in the drawing.
Particular description of goods.—Galvanized Sheets.
Claims use since Nov. 23, 1920.

Ser. No. 144,027. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Feb. 25, 1921.

CRITERION

Particular description of goods.—Men's Dress-Shirts.
Claims use since Nov. 1, 1920.

Ser. No. 144,034. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MENTHOL PRODUCTS COMPANY, East Orange, N. J. Filed Feb. 25, 1921.

MENTHO-RUB

Particular description of goods.—An Ointment Used in the Treatment of Hay-Fever, Cold in the Head, Chest-Colds, Colds in the Bronchial Tubes, Sore Throat, Lumbago, Rheumatism, Sprains, Bruises, Pains, Congestions, and Insect-Bites.
Claims use since Feb. 5, 1921.

Ser. No. 144,045. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE Q. T. MANUFACTURING CO., New York, N. Y. Filed Feb. 25, 1921.

Q. T.

Particular description of goods.—A Preparation for Prevention of Venereal Infections.
Claims use since Jan. 15, 1921.

Ser. No. 144,074. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER FERRIS, Milwaukee, Wis. Filed Feb. 26, 1921.

OILGEAR

Particular description of goods.—Hydraulic Transmissions.
Claims use since Nov. 10, 1920.

Ser. No. 144,075. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER FERRIS, Milwaukee, Wis. Filed Feb. 26, 1921.

OILGEAR

Particular description of goods.—Hydraulic Transmissions.
Claims use since Nov. 10, 1920.

Ser. No. 144,184. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HAINES MANUFACTURING CORPORATION, Rochester, N. Y. Filed Mar. 1, 1921.

CRYSTALITES

Particular description of goods.—Automobile Accessories—Namely, Metal Frames for Holding Glass in Curtains.
Claims use since Feb. 1, 1921.

Ser. No. 144,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LINDSBORG MILLING & ELEVATOR CO., Lindsborg, Kans. Filed Mar. 1, 1921. Under ten-year proviso.



Particular description of goods.—Kansas Hard-Wheat Flour.
Claims use since Mar. 20, 1893.

Ser. No. 144,195. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS MCCARTHY, Poughkeepsie, N. Y. Filed Mar. 1, 1921.



Particular description of goods.—Liver-Pills.
Claims use since Jan. 1, 1921.

Ser. No. 144,221. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND TRACTOR COMPANY, Euclid, Ohio. Filed Mar. 2, 1921.

Cletrac

Particular description of goods.—Internal-Combustion Engines.
Claims use since Feb. 11, 1921.

Ser. No. 144,235. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE A. H. LEWIS MEDICINE COMPANY, St. Louis, Mo. Filed Mar. 2, 1921.

JUNIORS

Jrs

Particular description of goods.—Medicinal Tablets for Stomach and Liver.
Claims use since Feb. 15, 1921.

Ser. No. 144,276. (CLASS 37. PAPER AND STATIONERY.) CROSS & BEARDSLEY, New Haven, Conn. Filed Mar. 3, 1921.



Particular description of goods.—Wall-Papers.
Claims use since 1905.

Ser. No. 144,304. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed Mar. 3, 1921.

WINCHESTER

The letters are colored red.
Under section 9 of the act of Mar. 19, 1920.
Particular description of goods.—Hatchets.
Claims use since Jan. 21, 1920.

Ser. No. 144,306. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AURORA TOOL WORKS, Aurora, Ind. Filed Mar. 5, 1921.

AURORA

Particular description of goods.—Metal-Drilling Machines, and Particularly Upright Drills and Attachments Therefor.
Claims use since April, 1920.

Ser. No. 144,348. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) P-A-T-S MANUFACTURING COMPANY, Lodi, Calif. Filed Mar. 5, 1921.

P-A-T-S

Particular description of goods.—Mechanically-Actuated Automobile Direction-Signals.
Claims use since July 1, 1920.

Ser. No. 144,363. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Mar. 5, 1921.



The pictorial representation of the goods is disclaimed apart from the other features of the mark shown on the drawing.
Particular description of goods.—Sugar-Coated Chewing-Gum.
Claims use since Feb. 22, 1921.

Ser. No. 144,364. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Mar. 5, 1921.



The pictorial representation of the goods is disclaimed apart from the other features of the mark shown in the drawing.
Particular description of goods.—Sugar-Coated Chewing-Gum.
Claims use since Feb. 22, 1921.

Ser. No. 144,367. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WOOD SHOVEL & TOOL COMPANY, Piqua, Ohio. Filed Mar. 5, 1921.



No claim being made to the words "Shovel, Piqua, Ohio, U. S. A." apart from the mark shown by the drawing. The name "H. K. Wood's" is in the handwriting of the president of the applicant.
Particular description of goods.—Shovels, Spades, Scoops, and Drainage-Tools.
Claims use since Feb. 11, 1921.

Ser. No. 144,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Mar. 7, 1921. Under ten-year proviso.

PEERLESS

Particular description of goods.—Starch for Manufacturing and Laundry Purposes.
Claims use since prior to Apr. 3, 1890.

Ser. No. 144,395. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IMPERIAL CANDY CO., Seattle, Wash. Filed Mar. 7, 1921.

Société

Particular description of goods.—Candies.
Claims use since July, 1906.

Ser. No. 144,416. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed Mar. 7, 1921.

HUMDINGER

Particular description of goods.—Candies.
Claims use since 1905.

Ser. No. 144,418. (CLASS 5. ADHESIVES.) ROBERT G. PASSANO, New York, N. Y. Filed Mar. 7, 1921.

Gripstrips
TRADE MARK

No claim being made to the words "Trade Mark."
Particular description of goods.—Gummed Tape.
Claims use since Oct. 1, 1920.

Ser. No. 144,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM E. SPENCE, New York, N. Y. Filed Mar. 7, 1921.

INDIAN



Particular description of goods.—Laundry Blue.
Claims use since Oct. 15, 1920.

Ser. No. 144,471. (CLASS 10. FERTILIZERS.) OSIAS KARP & GUSTAV VEINER-CASSEL, New York, N. Y. Filed Mar. 8, 1921.

PARK

Particular description of goods.—Fertilizers.
Claims use since Jan. 10, 1921.

Ser. No. 144,506. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

AERO

Particular description of goods.—Lawn-Mowers.
Claims use since 1910.

Ser. No. 144,507. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

LEADER

Particular description of goods.—Lawn-Mowers.
Claims use since 1912.

Ser. No. 144,511. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Under ten-year proviso.

RICHMOND

Particular description of goods.—Lawn-Mowers.
Claims use since 1888.

Ser. No. 144,512. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

NEW MAGIC

Particular description of goods.—Lawn-Mowers.
Claims use since 1902.

Ser. No. 144,515. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

WESTERN

Particular description of goods.—Lawn-Mowers.
Claims use since 1890.

Ser. No. 144,516. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

SUPREME

Particular description of goods.—Lawn-Mowers.
Claims use since 1915.

Ser. No. 144,531. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MANNING, MAXWELL & MOORE, INC., New York, N. Y. Filed Mar. 9, 1921. Under ten-year proviso.

PUTNAM

Particular description of goods.—Lathes, Planers, Slotters, Boring-Mills, Wheel-Lathes, Car-Wheel Borers, Axle-Lathes, Traverse-Shapers.
Claims use since 1836.

Ser. No. 144,561. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo. Filed Mar. 10, 1921.

JACK FROST

Particular description of goods.—Baking-Soda.
Claims use since July 1, 1904.

Ser. No. 144,580. (CLASS 37. PAPER AND STATIONERY.) THE JOHN A. MURPHY COMPANY, Springfield, Mass. Filed Mar. 10, 1921.

Script's

Particular description of goods.—Papeteries, Writing-Paper, and Mailing-Envelops.
Claims use since Jan. 10, 1921.

Ser. No. 144,618. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE V. GROSS & COMPANY, New York, N. Y., assignor to William A. Sherry, Los Angeles, Calif. Filed Mar. 11, 1921.

EXCELSIOR

Particular description of goods.—Coloring Materials for Foods—Namely, Vegetable Colors and Anilin Colors.
Claims use since Jan. 2, 1905.

Ser. No. 144,633. (CLASS 39. CLOTHING.) NEW ENGLAND KNITTING COMPANY, Winsted, Conn. Filed Mar. 11, 1921.

NEKCO

Particular description of goods.—Woven and Knitted Underwear, Combination Undergarments, Union-Suits, Undershirts, Drawers, Undervests, and Bloomers for Men, Women, and Children, and Hosiery.
Claims use since on or about Jan. 8, 1921.

Ser. No. 144,656. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ZOIA BANQUETIER CO., Cleveland, Ohio. Filed Mar. 11, 1921.

ZOIA BANQUETIER COMPANY

Particular description of goods.—A Service-Ring Used in Pyramiding Plates, Dishes, and the Like for Hotels, Restaurants, and Like Establishments.
Claims use since Oct. 1, 1920.

Ser. No. 144,667. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. P. DAGGETT CANNING CO., Coopersville, Mich. Filed Mar. 12, 1921.

DAGGETTS
IRISH STEW

No claim being made to "Irish Stew" except as shown in the drawing.
Particular description of goods.—Irish Stew, (a Combination of Meat and Vegetables.)
Claims use since December, 1919.

Ser. No. 144,703. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Mar. 14, 1921.

PLYOTOP

Particular description of goods.—Corsets and Brassières.
Claims use since Jan. 2, 1921.

Ser. No. 144,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. D. GREGG, Liberty, N. C. Filed Mar. 14, 1921.

LIVER KICK

Particular description of goods.—Medicine for Use in the Treatment of the Liver.
Claims use since Jan. 1, 1918.

Ser. No. 144,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. ICHTER, Tamaqua, Pa. Filed Mar. 14, 1921.

JACK'S

Particular description of goods.—A Shaving and Healing Lotion.
Claims use since Jan. 1, 1921.

Ser. No. 144,736. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. F. OTT, Payson, Utah. Filed Mar. 14, 1921.

OZEMAR

Particular description of goods.—A Medicine for the Treatment of Eczema and All Diseases of the Skin and Scalp.
Claims use since July 1, 1920.

Ser. No. 144,740. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed Mar. 14, 1921.

Palmers
BEYOND COMPARE

The words "Beyond Compare" being disclaimed apart from the mark shown.
Particular description of goods.—Assorted Hard Candy, Chocolates, and Candy-Bars.
Claims use since Jan. 24, 1921.

Ser. No. 144,763. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BIOCHEMICAL FOOD PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 15, 1921.

VITAFOOD

Particular description of goods.—Concentrated Food Products for Building Up the Tissues of the Human Body.
Claims use since Mar. 2, 1921.

Ser. No. 144,793. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. H. ADAMS CO., Waltham, Mass., and Hill, N. H. Filed Mar. 16, 1921.

Golden Butt

Particular description of goods.—Latch-Needles for Knitting-Machines.
Claims use since on or about Dec. 31, 1920.

Ser. No. 144,809. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANKLIN PEANUT COMPANY, Franklin, Va. Filed Mar. 16, 1921.



No claim is made for the registration of the word "Brand," and all claim for the registration thereof is disclaimed. The lines shown in the drawing are not intended to indicate color, and no claims as to color are made.

Particular description of goods.—Peanuts in the Shell.
Claims use since July 1, 1904.

Ser. No. 144,810. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANKLIN PEANUT COMPANY, Franklin, Va. Filed Mar. 16, 1921.



Particular description of goods.—Peanuts in the Shell.
Claims use since July 1, 1904.

Ser. No. 144,825. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAX GLICK CO., Cleveland, Ohio. Filed Mar. 16, 1921.

RIGHT ANGLES

Particular description of goods.—Candy.
Claims use since July, 1920.

Ser. No. 144,826. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAX GLICK CO., Cleveland, Ohio. Filed Mar. 16, 1921.

Three Shots

Particular description of goods.—Candy.
Claims use since July, 1920.

Ser. No. 144,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEARL DAVIS, Birmingham, Ala. Filed Mar. 17, 1921.

MONOLA

Particular description of goods.—Tonics and Dressings for the Treatment of the Hair and Scalp.
Claims use since Mar. 9, 1921.

Ser. No. 144,854. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ESTATE STOVE COMPANY, Hamilton, Ohio. Filed Mar. 17, 1921.

The ThermEstate

Particular description of goods.—Thermostatically-Operated Valves.
Claims use since Sept. 29, 1920.

Ser. No. 144,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PARIS CANDY CO., Paris, Tex. Filed Mar. 17, 1921.

Dixie

Particular description of goods.—Candy—Namely, Coco Raisin-Bars, Barber-Poles, Peanut-Butter Poles, Peanut-Bars, Cocoanut-Bars, Kisses, and Stick.
Claims use since Sept. 1, 1914.

Ser. No. 144,878. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) S. S. P. MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 17, 1921.

S.S.P.

Particular description of goods.—Water-Gages, Water-Columns, Gage-Glass Shields, Gage-Glass Protectors, Safety Water-Gages, and Gage-Glass Illuminators.
Claims use since October, 1919.

Ser. No. 144,909. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EDNA W. HAMACHER, Hannibal, Mo. Filed Mar. 18, 1921. Under ten-year proviso.

WORRELL

Particular description of goods.—Drying-Machines for Drying Grains, Seeds, Granular and Fibrous Matter, Ores, Crushed Rock, &c.
Claims use since on or about Apr. 1, 1882.

Ser. No. 144,913. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HECHT & MENDES INCORPORATED, New York, N. Y. Filed Mar. 18, 1921.

TROJAN

Particular description of goods.—Light and Heavy Weight Textile Fabrics—Namely, Gabardines, Linens, Twills, Voiles, Organdies, Lawns, Nainsooks, Batistes, Poplins, Cotton Sheeting, and Dress-Goods Fabrics in the Piece.
Claims use since July 1, 1920.

Ser. No. 144,928. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MITCHELL AND SMITH, INC., Boston, Mass. Filed Mar. 18, 1921.



Particular description of goods.—Leather Link Belts, Endless Belts, Leather Disks, Leather Packers and Washers, and Clutch-Leathers.
Claims use since January, 1921.

Ser. No. 144,932. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUELLA MUMFORD, Lehigh, Ala. Filed Mar. 18, 1921.

WOMAN'S GLORY.

Particular description of goods.—Tonics and Dressings for the Treatment of the Hair and Scalp.
Claims use since Mar. 3, 1921.

Ser. No. 144,945. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE STANLEY WORKS, New Britain, Conn. Filed Mar. 18, 1921.

JUNIOR JACK

Particular description of goods.—Planes.
Claims use since on or about Mar. 1, 1921.

Ser. No. 144,969. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ELLENWOOD & DOYLE, INC., New York, N. Y. Filed Mar. 19, 1921.

Eldo

Particular description of goods.—Sheet-Iron, Galvanized Sheet-Iron, Black Sheet-Iron, Copper, Sheet-Copper, Soldering-Coppers, Solder, Tin, Tin-Plate, and Roofing-Tin.
Claims use since May 15, 1919.

Ser. No. 144,980. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE POAGE-WALL MILLING COMPANY, Catlettsburg, Ky. Filed Mar. 19, 1921.

MAID of HONOR

Particular description of goods.—Wheat-Flour.
Claims use since Feb. 1, 1921.

Ser. No. 144,989. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SCHRAMM & BURSCH MANUFACTURING CO., INC., New York, N. Y. Filed Mar. 19, 1921.

Master



No claim being made to the exclusive use of the words "Piston Ring" nor to the pictorial representation of a piston-ring apart from the mark as shown on the drawing.
Particular description of goods.—Piston-Rings.
Claims use since Nov. 20, 1919.

Ser. No. 144,993. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TIMKEN-DETROIT AXLE COMPANY, Detroit, Mich. Filed Mar. 19, 1921.

F J

Particular description of goods.—Gears for Transmitting Power for Automotive and other Purposes.
Claims use since June 28, 1920.

Ser. No. 145,047. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE UNIVERSAL MILKING MACHINE COMPANY, Columbus, Ohio. Filed Mar. 21, 1921.

Universal

Particular description of goods.—Milking-Machines, Including Parts and Appurtenances Thereof, Pulsators, Teat-Cups, Receivers, and Pumps.
Claims use since about Sept. 1, 1918.

Ser. No. 145,086. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTOINETTE ROYCE, Brooklyn, N. Y. Filed Mar. 22, 1921.

LAND R

Particular description of goods.—A Solution for Chapped Hands and Face.
Claims use since Dec. 1, 1920.

Ser. No. 145,101. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FOREST ELECTRIC CO., Newark, N. J. Filed Mar. 23, 1921.

PORTOSTAT

Particular description of goods.—Electric-Battery Testers.
Claims use since June 11, 1920.

Ser. No. 145,126. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE POTENTIA COMPANY, Detroit, Mich. Filed Mar. 23, 1921.

"Potentia"

Consisting of the word "Potentia."
Particular description of goods.—Hair-Tonic.
Claims use since Oct. 1, 1920.

Ser. No. 145,146. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WOODWARD & COCHEY, INC., Lynn, Mass. Filed Mar. 23, 1921.



No claim is made to the words "Shoe Trimmings and Top Facing" apart from the mark shown in the drawing.
Particular description of goods.—Leather Substitute, a Manufactured or Artificial Leather.
Claims use since Feb. 17, 1921.

Ser. No. 145,239. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOTOMAYOR COMPANIA ANONIMA COMERCIAL, Cordova, Spain, and New York, N. Y. Filed Mar. 25, 1921.



The portrait is that of the minor daughter of Don Florentino Sotomayor.
Particular description of goods.—Olive-oil.
Claims use since the latter part of 1916.

Ser. No. 145,240. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TERRELL MACHINE COMPANY, Charlotte, N. C. Filed Mar. 25, 1921.

TERMACO

Particular description of goods.—Bobbin-Cleaning Machines.
Claims use since Mar. 17, 1921.

Ser. No. 145,277. (CLASS 5. ADHESIVES.) LIVERPOOL ADHESIVE PASTE CO. LTD., Liverpool, England. Filed Mar. 26, 1921.

L A P

Particular description of goods.—Paste, Being an Adhesive Article.
Claims use since July, 1910.

Ser. No. 145,280. (CLASS 5. ADHESIVES.) MONITE WATER PROOF GLUE COMPANY, Minneapolis, Minn. Filed Mar. 26, 1921.



Particular description of goods.—Glue.
Claims use since on or about Nov. 1, 1919.

Ser. No. 145,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O'CONNOR CANDY CO., Darlington, Wis. Filed Mar. 26, 1921.

OH-SEE-SEE

Particular description of goods.—Candy.
Claims use since Feb. 1, 1921.

Ser. No. 145,298. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WELSBACH COMPANY, Gloucester, N. J. Filed Mar. 26, 1921.

FIRELES

Particular description of goods.—Pyrophoric Igniting Devices.
Claims use since Mar. 8, 1921.

Ser. No. 145,311. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE A. BAKER, Philadelphia, Pa. Filed Mar. 28, 1921.

Bakerizer

Particular description of goods.—Fuel-Vaporizers for Internal-Combustion Engines.
Claims use since Jan. 3, 1921.

Ser. No. 145,312. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. W. CHASE & SON MER. CO., St. Joseph, Mo. Filed Mar 28, 1921.

HY-TONE

Particular description of goods—Candy.
Claims use since Sept 15, 1916.

Ser. No. 145,315. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Mar. 28, 1921.

Mission

Particular description of goods—Candy.
Claims use since May 1, 1920.

Ser. No. 145,316. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Mar. 28, 1921.

OTT-EN-DOT

Particular description of goods—Candy.
Claims use since Dec. 27, 1920.

Ser. No. 145,456. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE INDIANA SEPARATOR COMPANY, Indianapolis, Ind. Filed Mar. 30, 1921.



The exclusive right to the words "Service in Separators" and the picture of a separator are disclaimed except as used in conjunction with the mark shown in the drawing.
Particular description of goods.—Battery-Separators.
Claims use since about October, 1920.

Ser. No. 145,457. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE INDIANA SEPARATOR COMPANY, Indianapolis, Ind. Filed Mar. 30, 1921.

Service Plus +

The exclusive right to the word "Service" is disclaimed except as used in conjunction with the mark shown in the drawing.
Particular description of goods.—Battery-Separators.
Claims use since about October, 1920.

Ser. No. 145,467. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCE CHEMICAL CO., Marietta, Ohio. Filed Mar. 30, 1921.

Pioneer

Particular description of goods.—Flavorings for Food.
Claims use since Feb. 21, 1921.

Ser. No. 145,505. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE W. F. GAMMETER COMPANY, Cadiz, Ohio. Filed Mar. 31, 1921.

UNIVERSAL

Particular description of goods.—Calender Stock-Shells.
Claims use since Apr. 1, 1908.

Ser. No. 145,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis. Filed Mar. 31, 1921.

TWENTY-ODD

Particular description of goods.—Candy.
Claims use since Mar. 1, 1921.

Ser. No. 145,519. (CLASS 5. ADHESIVES.) LORD & BROWN, Des Moines, Iowa. Filed Mar. 31, 1921.

IRON GRASP

Particular description of goods.—Composition Rubber Cement.
Claims use since June, 1919.

Ser. No. 145,528. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PENDLETON WOOLEN MILLS, Pendleton, Oreg. Filed Mar. 31, 1921.

CAYUSE

Particular description of goods.—Indian Blankets, Shawls, Bath-Robes, and Bath-Robe Blankets of Wool Filling Woven on a Cotton Warp.
Claims use since January, 1910.

Ser. No. 145,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Mar. 31, 1921.

FLAKEWHITE

Particular description of goods.—Cooking-Fats.
Claims use since April, 1896.

Ser. No. 145,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Mar. 31, 1921.

INVINCIBLE

Particular description of goods.—Cooking-Fats.
Claims use since April, 1898.

Ser. No. 145,555. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDUCATIONAL FILMS CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 1, 1921.

World Wanderings

Particular description of goods.—Motion-Pictures.
Claims use since Jan. 30, 1921.

Ser. No. 145,556. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDUCATIONAL FILMS CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 1, 1921.

SNOOKY THE HUMANZEE

Particular description of goods.—Motion-Pictures.
Claims use since May 15, 1920.

Ser. No. 145,558. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE E. EDSON, Cleveland, Ohio. Filed Apr. 1, 1921.

Cacto

Particular description of goods.—Candy.
Claims use since Jan. 1, 1921.

Ser, No. 145,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHESTER C. FOSGATE Co., Orlando, Fla. Filed Apr. 1, 1921.

ACE HIGH

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Sept. 1, 1920.

Ser. No. 145,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHESTER C. FOSGATE Co., Orlando, Fla. Filed Apr. 1, 1921.

FIDELITY

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Sept. 1, 1920.

Ser. No. 145,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Mrs. MAUDE O. RANDALL, Cottonwood, Idaho. Filed Apr. 2, 1921.



Particular description of goods.—Cream Salad-Dressing.
Claims use since Nov. 10, 1920.

Ser. No. 145,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & Co., Brooklyn, N. Y. Filed Apr. 2, 1921.

NECTAR

Particular description of goods.—Candies.
Claims use since about 1875.

Ser. No. 145,679. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GARDNER COMPANY, Brooklyn, N. Y. Filed Apr. 4, 1921.

Jack Horner

Particular description of goods.—Candies.
Claims use since Mar. 19, 1921.

Ser. No. 145,692. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) KANSAS CITY SMELTING Co., Kansas City, Mo. Filed Apr. 4, 1921.



No claim is made to the words "Babbitt Metal, Trade Mark" and the abbreviation "K. C. Mo." apart from the mark shown in the drawing.
Particular description of goods.—Babbitt Metal.
Claims use since Mar. 21, 1921.

Ser. No. 145,805. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) VICTORY OIL BURNER COMPANY, Houston, Tex. Filed Apr. 6, 1921.

VICTORY

Particular description of goods.—Crude-Oil Burners.
Claims use since June, 1919.

Ser. No. 145,821. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CREST NET COMPANY, INC., New York, N. Y. Filed Apr. 7, 1921.

SMART SET

Particular description of goods.—Hair-Nets.
Claims use since Nov. 1, 1920.

Ser. No. 145,822. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CREST NET COMPANY, Inc., New York, N. Y. Filed Apr. 7, 1921.

Betsy Ross

Particular description of goods.—Hair-Nets.
Claims use since Sept. 1, 1920.

Ser. No. 145,859. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCKHILL & VIETOR, New York, N. Y. Filed Apr. 7, 1921.

ELYSIAN

Particular description of goods—Olive-Oil and Mixture of Olive-Oil with other Vegetable Oils.
Claims use since Feb. 1, 1921.

Ser. No. 145,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio. Filed Apr. 8, 1921.

SAVORA

Particular description of goods.—Cooking-Fats.
Claims use since Mar. 25, 1921.

Ser. No. 145,979. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STEVENS & COMPANY INC., Providence, R. I. Filed Apr. 9, 1921.

ARTSHEL

Consisting of the word "Artshel."
Particular description of goods.—Ophthalmic Mountings and Parts Thereof.
Claims use since August, 1918.

Ser. No. 146,070. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DENVILLE SILK CO. INC., New York, N. Y. Filed Apr. 12, 1921.

Daffodil

Particular description of goods.—Silks and Silk Fabrics in the Piece.
Claims use since Jan. 1, 1920.

Ser. No. 146,119. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOMAC CORPORATION, Syracuse, N. Y. Filed Apr. 13, 1921.

RONETTES

Particular description of goods.—Italian Paste Products, Such as Macaroni.
Claims use since on or about Feb. 26, 1921.

Ser. No. 146,155. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 14, 1921.

SWALLOW

Particular description of goods—Unsweetened Evaporated Milk.
Claims use since Apr. 8, 1921.

Ser. No. 146,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 14, 1921.

PEACOCK

Particular description of goods.—Sweetened Condensed Milk.
Claims use since Apr. 8, 1921.

Ser. No. 146,157. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 14, 1921.

PEONY

Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since Apr. 8, 1921.

Ser. No. 146,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 14, 1921.

PAVO REAL

Particular description of goods.—Sweetened Condensed Milk.
Claims use since Apr. 8, 1921.

Ser. No. 146,174. (CLASS 5. ADHESIVES.) HIGHLAND MANUFACTURING CO., Highland Park, N. J. Filed Apr. 14, 1921.

Highland

Particular description of goods.—Transparent Cement.
Claims use since Mar. 1, 1921.

Ser. No. 146,177. (CLASS 5. ADHESIVES.) THE INDIA TIRE & RUBBER CO., Mogadore, Ohio. Filed Apr. 14, 1921.



No claim is made to the exclusive use of the word "India" except as shown.
Particular description of goods.—Rubber Cement, Rubber Gum, and Gum for Repairing Cuts in the Treads of Rubber Tires.
Claims use since Apr. 1, 1918.

Ser. No. 146,350. (CLASS 5. ADHESIVES.) ZIM PRODUCTS CO., New York and Brooklyn, N. Y. Filed Apr. 18, 1921.



Particular description of goods.—Pastes, Including Library, Office, and Factory Paste, Mucilage, and Glue.
Claims use since January, 1921.

Ser. No. 146,396. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) L. S. PLAUT & CO., Newark, N. J. Filed Apr. 19, 1921.



Particular description of goods.—Yard Goods Used in Bedspreads, Sheets, Pillow-Cases, Towels, and Related Cotton Goods.
Claims use since Feb. 21, 1921.

Ser. No. 146,460. (CLASS 5. ADHESIVES.) NAVAJO LABORATORIES, INC., Casper, Wyo. Filed Apr. 20, 1921.

NAVAJO

Particular description of goods.—Liquid Spoke-Fastener.
Claims use since Nov. 15, 1920.

Ser. No. 146,651. (CLASS 5. ADHESIVES.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster

Particular description of goods.—Mucilage, Adhesive Tapes, Liquid Glue, and Liquid Court-Plaster.
Claims use since December, 1913.

Ser. No. 146,660. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EUGENE PALMUTH, San Francisco, Calif. Filed Apr. 23, 1921.



Particular description of goods.—Sun and Rain Shields for Automobiles.
Claims use since Jan. 15, 1921.

Ser. No. 146,840. (CLASS 5. ADHESIVES.) MONTGOMERY BAGS. INC., Philadelphia, Pa. Filed Apr. 27, 1921.



Particular description of goods.—Liquid Rubber Cements.
Claims use since 1892.

Ser. No. 146,893. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.



Particular description of goods.—Mats and Mattings Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 147,148. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed May 2, 1921.



Particular description of goods.—Garment-Hangers, Fly Traps and Swatters, and Rat, Mouse, and Vermin Traps.
Claims use since 1908.

Ser. No. 147,264. (CLASS 43. THREAD AND YARN.) TOULSON & RENESCH, Bridgeport, Conn. Filed May 5, 1921.



Particular description of goods.—Yarns.
Claims use since Apr. 1, 1921.

Ser. No. 147,278. (CLASS 5. ADHESIVES.) THE CASEIN MANUFACTURING COMPANY, New York, N. Y. Filed May 6, 1921.

TYKOR

Particular description of goods.—Core-Binding Compound.
Claims use since Feb. 21, 1921.

Ser. No. 147,324. (CLASS 10. FERTILIZERS.) UNITED FERTILIZER COMPANY, Carrollville, Wis. Filed May 6, 1921.

HYNITE

Particular description of goods.—Fertilizers.
Claims use since Apr. 23, 1921.

Ser. No. 147,505. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 10, 1921.

SANIWHITE

Particular description of goods.—Conveyer-Belts Made of Fabric Combined with Rubber.
Claims use since about Apr. 22, 1921.

Ser. No. 147,631. (CLASS 5. ADHESIVES.) BELLE M. MAJOR, Detroit, Mich. Filed May 12, 1921.

COOTIE

Particular description of goods.—Rubber Patching-Stock and Transparent Cement.
Claims use since Sept. 27, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JUNE 28, 1921.

144,157. JAR-RINGS. AMBOY PRODUCTS CO. INC., Chicago, Ill.
Filed November 26, 1920. Serial No. 140,158. PUBLISHED MARCH 15, 1921.

144,158. COFFEE, CANNED FISH, CANNED FRUIT, CANNED VEGETABLES, AND BUTTER. AMERICAN FACTORS, LIMITED, Honolulu, Hawaii, and San Francisco, Calif.
Filed November 6, 1920. Serial No. 139,241. PUBLISHED MARCH 15, 1921.

144,159. FLINT, GARNET, AND EMERY PAPER AND CLOTH. AMERICAN GLUE COMPANY, Boston, Mass.
Filed January 22, 1921. Serial No. 142,574. PUBLISHED MARCH 1, 1921.

144,160. BULK-BRONZE AND CASTINGS MADE FROM BRONZE. AMERICAN MANGANESE BRONZE COMPANY, INC., Philadelphia, Pa., and New York, N. Y.
Filed October 28, 1920. Serial No. 138,889. PUBLISHED MARCH 8, 1921.

144,161. OIL USED IN THE TREATMENT OF WOOLEN FABRICS. THE AMERICAN OIL COMPANY, Providence, R. I.
Filed October 12, 1920. Serial No. 138,201. PUBLISHED MARCH 8, 1921.

144,162. OPHTHALMIC LENSES, SEMIFINISHED LENSES, AND BLANKS THEREFOR. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed December 15, 1920. Serial No. 141,093. PUBLISHED MARCH 8, 1921.

144,163. OPHTHALMIC LENSES, SEMIFINISHED LENSES, AND BLANKS THEREFOR. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed December 15, 1920. Serial No. 141,094. PUBLISHED MARCH 8, 1921.

144,164. OPHTHALMIC LENSES, SEMIFINISHED LENSES, AND BLANKS THEREFOR. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed December 15, 1920. Serial No. 141,095. PUBLISHED MARCH 8, 1921.

144,165. OPHTHALMIC LENSES, SEMIFINISHED LENSES, AND BLANKS THEREFOR. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed December 15, 1920. Serial No. 141,096. PUBLISHED MARCH 8, 1921.

144,166. SMOKING-TOBACCO, LITTLE CIGARS, AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed November 10, 1919. Serial No. 124,705. PUBLISHED FEBRUARY 3, 1920.

144,167. LAUNDRY SOAP. AMERICAN WHOLESALE CORPORATION, (Baltimore Bargain House,) Baltimore and Cumberland, Md.
Filed January 20, 1921. Serial No. 142,460. PUBLISHED MARCH 1, 1921.

144,168. SOAP. FRANCISCO ANGULO, Madrid, Spain.
Filed September 6, 1919. Serial No. 122,381. PUBLISHED MARCH 15, 1921.

144,169. SOAP. FRANCISCO ANGULO, Madrid, Spain.
Filed September 6, 1919. Serial No. 122,382. PUBLISHED MARCH 15, 1921.

144,170. TOILET-PAPER FIXTURES. ASSOCIATED MANUFACTURERS COMPANY, Milwaukee, Wis.
Filed October 28, 1920. Serial No. 138,888. PUBLISHED MARCH 8, 1921.

144,171. SHEET-RUBBER PATCHES. EDWARD T. BARKER, Oakland, Calif.
Filed October 30, 1920. Serial No. 138,975. PUBLISHED MARCH 15, 1921.

144,172. PACKING-CASES, CARTONS, PAPER AND FIBER BOARD BOXES, AND PAPER FLOWER-POTS. BIRD & SON, INC., East Walpole, Mass.
Filed June 19, 1920. Serial No. 133,909. PUBLISHED MARCH 1, 1921.

144,173. ELECTROMEDICAL APPARATUS COMPRISING HIGH-FREQUENCY AND VIOLET-RAY EQUIPMENTS, ELECTRODES, AND PARTS THEREOF. BLEADON-DUN COMPANY, Chicago, Ill.
Filed August 26, 1920. Serial No. 136,501. PUBLISHED MARCH 1, 1921.

144,174. CIGARETTES. ALEXANDER BOGUSLAVSKY, LTD., London, England.
Filed October 18, 1920. Serial No. 138,424. PUBLISHED MARCH 8, 1921.

144,175. LOCKS. WILSON BOHANNAN, INC., Brooklyn, N. Y.
Filed September 10, 1920. Serial No. 137,026. PUBLISHED MARCH 8, 1921.

144,176. LOCKS. WILSON BOHANNAN, INC., Brooklyn, N. Y.
Filed September 10, 1920. Serial No. 137,027. PUBLISHED MARCH 8, 1921.

144,177. EXTRACT OF MEAT. BONOVIN LIMITED, Liverpool, England.
Filed October 27, 1920. Serial No. 138,835. PUBLISHED MARCH 15, 1921.

144,178. SALVE OR OINTMENT. ALFRED A. BRETZ, Columbia, S. C.
Filed September 14, 1920. Serial No. 137,165. PUBLISHED MARCH 8, 1921.

144,179. DISINFECTANTS. ROBINSON A. CASSIDY, New York, N. Y.
Filed October 13, 1920. Serial No. 138,252. PUBLISHED MARCH 8, 1921.

144,180. CIGARS AND CIGARETTES. FREDERICK CLARKE, Chicago, Ill.
Filed September 4, 1919. Serial No. 122,280. PUBLISHED MARCH 8, 1921.

144,181. TOILET SOAP. ALFRED E. CLEVELAND, Cambridge, Mass.
Filed January 24, 1921. Serial No. 142,693. PUBLISHED MARCH 1, 1921.

144,182. ICE-CREAM. CLOVER CREAMERY COMPANY INC., Roanoke, Va.
Filed June 23, 1920. Serial No. 134,057. PUBLISHED AUGUST 31, 1920.

144,183. CERTAIN NAMED MEDICINAL PREPARATION. ALEXANDER W. CHAPPELL, Red Bank, N. J.
Filed August 12, 1920. Serial No. 136,024. PUBLISHED MARCH 1, 1921.

144,184. VENEREAL PROPHYLACTIC OINTMENT. JOHN N. COLE, San Francisco, Calif.
Filed September 24, 1920. Serial No. 137,567. PUBLISHED MARCH 8, 1921.

144,185. CERTAIN NAMED TOYS. MORTON E. CONVERSE AND SON CO., Winchendon, Mass.
Filed August 10, 1920. Serial No. 135,971. PUBLISHED MARCH 1, 1921.

144,186. MEDICINE FOR CERTAIN NAMED PURPOSES. CREOMULSION COMPANY, Griffin, Ga.
Filed September 30, 1920. Serial No. 137,760. PUBLISHED MARCH 8, 1921.

144,187. CLEANING COMPOSITION FOR FABRICS. DIOZINE CHEMICAL CO., Ludlow, Vt.
Filed December 15, 1920. Serial No. 141,100. PUBLISHED MARCH 15, 1921.

144,188. TONIC FOR HAIR AND SCALP, DANDRUFF-REMOVER, AND GERMICIDE. IMPERIAL PHARMACEUTICAL COMPANY, New York, N. Y.
Filed September 30, 1920. Serial No. 137,778. PUBLISHED MARCH 8, 1921.

144,189. LINEN THREAD. INTERNATIONAL LINEN COMPANY, Wilmington, Del.; Detroit, Mich., and Boston, Mass.
Filed December 13, 1920. Serial No. 140,996. PUBLISHED MARCH 1, 1921.

144,190. ROLLER-CYCLE OF THE SCOOTER TYPE. KOKOMO SPECIALTIES MFG. CO., Kokomo, Ind.
Filed July 9, 1920. Serial No. 134,749. PUBLISHED MARCH 8, 1921.

144,191. ECZEMA-OINTMENT. GRANVILLE MOODY KINIKIN, Hamilton, Ohio.
Filed October 4, 1920. Serial No. 137,886. PUBLISHED MARCH 8, 1921.

144,192. CIGARS. VICTOR LEVOR, Attica, Ind.
Filed August 9, 1920. Serial No. 135,935. PUBLISHED MARCH 1, 1921.

144,193. BRIEF-CASES, MUSIC-ROLLS, PORTFOLIOS. THE LIFTON MFG. CO., New York, N. Y.
Filed August 16, 1919. Serial No. 121,721. PUBLISHED MARCH 15, 1921.

144,194. ALLOY STEEL, CHISEL-STEEL, AND ALLOY CHISEL-STEEL. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed December 15, 1920. Serial No. 141,122. PUBLISHED MARCH 8, 1921.

144,195. DEODORANT. EDWARD C. LUEDTKE, Laporte, Ind.
Filed October 25, 1920. Serial No. 138,769. PUBLISHED MARCH 15, 1921.

144,196. WASHING-POWDER. JOSEPH HENRY MCMAHON, Chicago, Ill.
Filed January 3, 1921. Serial No. 141,789. PUBLISHED MARCH 1, 1921.

144,197. OPERA AND FIELD GLASSES. R. H. MACY & CO., INC., New York, N. Y.
Filed December 29, 1920. Serial No. 141,645. PUBLISHED MARCH 8, 1921.

144,198. OPERA AND FIELD GLASSES. R. H. MACY & CO., INC., New York, N. Y.
Filed December 29, 1920. Serial No. 141,646. PUBLISHED MARCH 8, 1921.

144,199. KNITTING-NEEDLES FOR HAND USE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 14, 1918. Serial No. 109,557. PUBLISHED APRIL 30, 1918.

144,200. SILK, COTTON, AND WOOLEN PIECE GOODS AND COMBINATIONS THEREOF. J. A. MIGEL, INC., New York, N. Y.
Filed October 16, 1920. Serial No. 138,399. PUBLISHED MARCH 1, 1921.

144,201. LEATHER BELTS FOR SUPPORTING WEARING-APPAREL. MILLER & GLEASON, Newport News, Va.
Filed August 23, 1920. Serial No. 136,383. PUBLISHED MARCH 1, 1921.

144,202. CASTINGS MADE OF CERTAIN METALS. MILWAUKEE STEEL FOUNDRY COMPANY, Milwaukee, Wis.
Filed December 11, 1920. Serial No. 140,950. PUBLISHED MARCH 8, 1921.

144,203. NON-SAPONACEOUS WASHING FLUID. MIRACLE MANUFACTURING COMPANY, Detroit, Mich.
Filed July 23, 1919. Serial No. 120,838. PUBLISHED NOVEMBER 18, 1919.

144,204. SMOKING-TOBACCO, NATURAL TWIST, AND CIGARETTES. WILLIAM H. MOBERLY, Owensboro, Ky.
Filed July 12, 1920. Serial No. 134,834. PUBLISHED MARCH 8, 1921.

144,205. WIRE FABRIC FOR SUPPORTING MATTRESSES AND CUSHIONS. THE MOORE COMPANY, Muncie, Ind.
Filed July 19, 1920. Serial No. 135,157. PUBLISHED FEBRUARY 1, 1921.

144,206. PREVENTIVE FOR VENEREAL DISEASES. E. J. MOORE SONS, INC., New York, N. Y.
Filed September 21, 1920. Serial No. 137,429. PUBLISHED MARCH 8, 1921.

144,207. CERTAIN NAMED TOILET PREPARATIONS. MULHENS & KROPFF, INCORPORATED, New York, N. Y.
Filed July 29, 1920. Serial No. 135,565. PUBLISHED MARCH 8, 1921.

144,208. WASHING COMPOUND. MULTI PRODUCTS COMPANY, Detroit, Mich.
Filed December 17, 1920. Serial No. 141,232. PUBLISHED MARCH 1, 1921.

144,209. SOAP. CHARLES MUNTER, New York, N. Y.
Filed January 17, 1921. Serial No. 142,354. PUBLISHED MARCH 1, 1921.

144,210. CERTAIN NAMED MEDICINAL PREPARATIONS. THE ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed March 12, 1915. Serial No. 85,118. PUBLISHED MARCH 15, 1921.

144,211. FEATHER OR DOWN PILLOWS. CHAS. EMMERICH & CO., Chicago, Ill.
Filed May 2, 1919. Serial No. 118,082. PUBLISHED DECEMBER 21, 1920.

144,212. WOODEN TOOTHPICKS. ESCANABA MANUFACTURING COMPANY, Escanaba, Mich.
Filed May 24, 1920. Serial No. 132,856. PUBLISHED NOVEMBER 30, 1920.

144,213. HANDLES FOR SLEDGES AND PICKS. THE FACTORY SUPPLY COMPANY, Chicago, Ill.
Filed December 10, 1917. Serial No. 107,866. PUBLISHED MARCH 4, 1919.

144,214. TOY BALLOONS. THE FAULTLESS RUBBER COMPANY, Ashland, Ohio.
Filed May 3, 1920. Serial No. 131,951. PUBLISHED MARCH 1, 1921.

144,215. PREPARATION IN FINELY-DIVIDED FORM FOR CLEANING, SCOURING, AND POLISHING METAL, GLASS, WOODWORK, &c. FITZPATRICK BROS., Chicago, Ill.
Filed December 27, 1920. Serial No. 141,520. PUBLISHED MARCH 1, 1921.

144,216. CRUMB-TRAYS, CRUMB-SCRAPERS, AND SINK-SCRAPERS. THE FULLER BRUSH COMPANY, Hartford, Conn.
Filed November 29, 1920. Serial No. 140,376. PUBLISHED MARCH 8, 1921.

144,217. CERTAIN AGRICULTURAL IMPLEMENTS. CHAS. W. GENUNG, Madison, Ohio.
Filed September 10, 1920. Serial No. 137,030. PUBLISHED MARCH 8, 1921.

144,218. LOCKS AND LOCK-CASINGS. ELMER G. GODSHALK, Blackwell, Okla.
Filed August 12, 1920. Serial No. 136,029. PUBLISHED MARCH 1, 1921.

144,219. CERTAIN NAMED DENTAL, MEDICAL, AND SURGICAL APPLIANCES MADE WHOLLY OR PARTLY OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed March 8, 1920. Serial No. 129,381. PUBLISHED MARCH 1, 1921.

144,220. TOILET AND LAUNDRY SOAP. GRAHAM BROS. SOAP COMPANY, Chicago, Ill.
Filed July 26, 1920. Serial No. 135,422. PUBLISHED DECEMBER 21, 1920.

144,221. DROP-FORGINGS. GREAT LAKES FORGE COMPANY, Chicago, Ill.
Filed September 25, 1920. Serial No. 137,608. PUBLISHED MARCH 8, 1921.

144,222. PRINTED BOOKS ISSUED SEMI-ANNUALLY. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed September 1, 1920. Serial No. 136,711. PUBLISHED MARCH 8, 1921.

144,223. BOARD GAME. HAINES & PARSONS, Camden, N. J.
Filed August 6, 1920. Serial No. 135,853. PUBLISHED MARCH 1, 1921.

144,224. COUGH REMEDY. HANNAH EAB, Greensburg, Pa.
Filed October 15, 1920. Serial No. 138,316. PUBLISHED MARCH 8, 1921.

144,225. MOPS AND A SPECIES OF MOPS KNOWN IN THE TRADE AS DUSTERS FOR DUSTING, CLEANING, AND POLISHING PURPOSES. THE HARZEE MANUFACTURING COMPANY, Cleveland, Ohio.
Filed May 5, 1920. Serial No. 132,046. PUBLISHED MARCH 1, 1921.

144,226. LAUNDRY SOAP. HASKINS BROTHERS & COMPANY, Omaha, Nebr., and Sioux City, Iowa.
Filed January 11, 1921. Serial No. 142,073. PUBLISHED MARCH 1, 1921.

144,227. BASEBALL-BATS. HILTON COLLINS CO., Louisville, Ky.
Filed June 7, 1920. Serial No. 133,348. PUBLISHED FEBRUARY 8, 1921.

144,228. DRY CLEANER, METAL AND GLASS POLISH. DELLO A. HOLCOMB, Youngstown, Ohio.
Filed July 16, 1919. Serial No. 120,609. PUBLISHED MARCH 15, 1921.

144,229. SOAP FOR CLEANING AND POLISHING EYE-GLASSES, SPECTACLES, AND GOGGLES. ANDERSON D. HONEYCUT, Gatesville, Tex.
Filed December 18, 1920. Serial No. 141,268. PUBLISHED MARCH 15, 1921.

144,230. ICE-CREAM. H. P. HOOD & SONS, INC., Boston, Mass.
Filed August 20, 1920. Serial No. 136,297. PUBLISHED MARCH 15, 1921.

144,231. NOTIONS AND SMALLWARES—VIZ., SNAP-FASTENERS AND LINEN, SILK, OR WORSTED BRAIDS. EDWIN HORRAX, INC., New York, N. Y.
Filed August 6, 1919. Serial No. 121,301. PUBLISHED FEBRUARY 24, 1920.

144,232. METALLIC PEN-POINTS. C. HOWARD HUNT PEN CO., Camden, N. J.
Filed October 28, 1920. Serial No. 138,906. PUBLISHED MARCH 1, 1921.

144,233. CERTAIN NAMED MEDICINAL PREPARATION. CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland.
Filed April 8, 1920. Serial No. 130,803. PUBLISHED MARCH 1, 1921.

144,234. LIQUID CLEANING AND POLISHING MATERIALS FOR AUTOMOBILE-BODIES. CRYSTAL-LAC PRODUCTS COMPANY, Los Angeles, Calif.
Filed February 21, 1920. Serial No. 128,728. PUBLISHED JULY 27, 1920.

144,235. TOY BALLOONS. THE EAGLE RUBBER CO., Ashland, Ohio.
Filed January 13, 1920. Serial No. 127,083. PUBLISHED MARCH 1, 1921.

144,236. MACHINERY—NAMELY, ICE-MAKING AND REFRIGERATING MACHINERY. FRICK COMPANY, Waynesboro, Pa.
Filed October 25, 1919. Serial No. 124,175. PUBLISHED MARCH 1, 1921.

144,237. MEDICINE-CABINETS, BABY-BASSINETS, CRIBS, CHILDREN'S DRESSERS, CHIFFONNIERS, CHIFFORETTES, AND COSTUMERS. THE GLASS NOVELTY COMPANY, Chicago, Ill.
Filed March 22, 1920. Serial No. 130,029. PUBLISHED MARCH 1, 1921.

144,238. HYDRANTS. HOWARD IRON WORKS, Buffalo, N. Y.
Filed December 4, 1920. Serial No. 140,595. PUBLISHED MARCH 8, 1921.

144,239. HYDRANTS. HOWARD IRON WORKS, Buffalo, N. Y.
Filed December 4, 1920. Serial No. 140,596. PUBLISHED MARCH 8, 1921.

144,240. LEAF-TOBACCO. LIGGETT & MYERS TOBACCO CO., New York, N. Y.
Filed March 11, 1920. Serial No. 129,557. PUBLISHED MARCH 8, 1921.

144,241. COFFEE. MARLBOROUGH COFFEE CO., INC., New York, N. Y.
Filed December 14, 1920. Serial No. 141,073. PUBLISHED MARCH 15, 1921.

144,242. SILK, COTTON, AND WOOLEN PIECE GOODS AND COMBINATIONS THEREOF. J. A. MIGEL, INC., New York, N. Y.
Filed October 16, 1920. Serial No. 138,398. PUBLISHED MARCH 1, 1921.

144,243. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,048. PUBLISHED MARCH 15, 1921.

144,244. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,049. PUBLISHED MARCH 15, 1921.

144,245. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,050. PUBLISHED MARCH 15, 1921.

144,246. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,051. PUBLISHED MARCH 15, 1921.

144,247. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,052. PUBLISHED MARCH 15, 1921.

144,248. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,053. PUBLISHED MARCH 15, 1921.

144,249. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,054. PUBLISHED MARCH 15, 1921.

144,250. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed November 23, 1920. Serial No. 140,055. PUBLISHED MARCH 15, 1921.

144,251. RING-TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed November 3, 1920. Serial No. 139,126. PUBLISHED FEBRUARY 1, 1921.

144,252. COUCH-HAMMOCKS. NEW ENGLAND BEDDING COMPANY, Boston, Mass.
Filed July 26, 1920. Serial No. 135,431. PUBLISHED DECEMBER 7, 1920.

144,253. SPECTACLE AND EYEGLASS FRAMES AND MOUNTINGS. NEW JERSEY OPTICAL CO., Newark, N. J.
Filed December 6, 1920. Serial No. 140,671. PUBLISHED MARCH 8, 1921.

144,254. NICKEL SHEETS, TUBES, RODS, WIRE, BILLETS, SLABS, AND STRIPS. NICKEL-ALLOYS COMPANY, Pittsburgh, Pa.
Filed December 7, 1920. Serial No. 140,740. PUBLISHED MARCH 8, 1921.

144,255. SALVES FOR BOILS, CARBUNCLES, FELONS, BLOOD-POISONING, AND HEALING ALL KINDS OF SORES. STEPHEN O. O'DELL, Detroit, Mich.
Filed October 15, 1920. Serial No. 138,333. PUBLISHED MARCH 8, 1921.

144,256. BOXES AND PACKING-CASES. 4-ONE- BOX MACHINE MAKERS, Portland, Me., and Rockaway, N. J.
Filed January 7, 1921. Serial No. 141,949. PUBLISHED FEBRUARY 22, 1921.

144,257. TEA. W. PAPIEWSKI MEDICAL TEA COMPANY, Chicago, Ill.
Filed November 26, 1920. Serial No. 140,205. PUBLISHED MARCH 15, 1921.

144,258. SHOES MADE OF LEATHER AND OF LEATHER AND FABRIC COMBINATIONS. PEDIGO-WEBER SHOE CO., St. Louis, Mo.
Filed April 30, 1920. Serial No. 131,881. PUBLISHED NOVEMBER 30, 1920.

144,259. CATTLE-POKES. C. B. POKE MFG. CO., Kansas City, Mo.
Filed December 13, 1920. Serial No. 141,021. PUBLISHED MARCH 8, 1921.

144,260. CATTLE-POKES. C. B. POKE MFG. CO., Kansas City, Mo.
Filed December 13, 1920. Serial No. 141,022. PUBLISHED MARCH 8, 1921.

144,261. CATTLE-POKES. C. B. POKE MFG. CO., Kansas City, Mo.
Filed December 13, 1920. Serial No. 141,023. PUBLISHED MARCH 8, 1921.

144,262. STONEWARE AND POTTERY. THE RANSBOTTOM BROTHERS POTTERY COMPANY, Roseville, Ohio.
Filed November 7, 1919. Serial No. 124,668. PUBLISHED OCTOBER 19, 1920.

144,263. CERTAIN NAMED DENTAL SUPPLIES. REITZ-FARRAR COMPANY, Louisville, Ky., and Chicago, Ill.
Filed June 23, 1920. Serial No. 134,094. PUBLISHED MARCH 8, 1921.

144,264. CERTAIN NAMED DENTAL SUPPLIES. REITZ-FARRAR COMPANY, Louisville, Ky., and Chicago, Ill.
Filed June 23, 1920. Serial No. 134,095. PUBLISHED MARCH 8, 1921.

144,265. FLUID FOR REMOVING SPOTS, CLEANING WOOL, COTTON, SILK, AND LEATHER. CLARENCE E. RENNECKAR, Wilmette, Ill.
Filed November 14, 1919. Serial No. 124,918. PUBLISHED APRIL 13, 1920.

144,266. LEATHER BRIEF-CASES, MUSIC-ROLLS, VALISES, PORTFOLIOS, AND BOSTON BAGS. REX LEATHER GOODS CORPORATION, New York, N. Y.
Filed September 1, 1920. Serial No. 136,721. PUBLISHED MARCH 1, 1921.

144,267. WHITE DUCK AND DRILL CLOTHING—NAMELY, COATS, PANTS, VESTS, APRONS, AND CAPS. THE JAMES E. RICHARDS COMPANY, Dayton, Ohio.
Filed February 12, 1920. Serial No. 128,324. PUBLISHED JANUARY 25, 1921.

144,268. SILK PIECE GOODS. A. S. ROSENTHAL COMPANY, New York, N. Y.
Filed November 6, 1920. Serial No. 139,307. PUBLISHED MARCH 8, 1921.

144,269. TOY AIRPLANES. HUGO ROSENSTEIN, New York, N. Y.
Filed March 17, 1920. Serial No. 129,870. PUBLISHED MARCH 8, 1921.

144,270. CERTAIN NAMED MEDICINAL PREPARATION. ALEXANDER ROSS, Wheeling, W. Va.
Filed September 14, 1920. Serial No. 137,182. PUBLISHED MARCH 8, 1921.

144,271. PUMICE, WHALE-OIL SOAP, METAL-POLISH, CLOTH-CLEANING FLUID, AND SPANISH WHITING. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,418. PUBLISHED MARCH 1, 1921.

144,272. REMEDY FOR THE TREATMENT OF RHEUMATISM. F. V. SAWYER, Wichita, Kans.
Filed October 13, 1920. Serial No. 138,265. PUBLISHED MARCH 8, 1921.

144,273. LIQUID PREPARATION, BEING A REMEDY OR MEDICINE FOR INDIGESTION AND DYSPEPSIA. JACK P. SCHRODT, Memphis, Tenn.
Filed April 14, 1920. Serial No. 131,130. PUBLISHED MARCH 8, 1921.

144,274. CERTAIN ARTICLES OF CLOTHING AND CERTAIN DESCRIBED LININGS FOR ARTICLES OF CLOTHING. SCOTSMOOR COMPANY, Johnstown, N. Y.
Filed September 15, 1920. Serial No. 137,241. PUBLISHED MARCH 8, 1921.

144,275. CERTAIN ARTICLES OF CLOTHING AND CERTAIN DESCRIBED LININGS FOR ARTICLES OF CLOTHING. SCOTSMOOR COMPANY, Johnstown, N. Y.
Filed September 15, 1920. Serial No. 137,242. PUBLISHED MARCH 8, 1921.

144,276. TOILET AND LAUNDRY SOAP AND SOAP FLAKES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1921. Serial No. 142,728. PUBLISHED MARCH 1, 1921.

144,277. CATALOGUE PUBLISHED FROM TIME TO TIME. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed July 5, 1919. Serial No. 120,291. PUBLISHED FEBRUARY 10, 1920.

144,278. INTERNAL-COMBUSTION ENGINES, BOTH PORTABLE AND STATIONARY AND COMBINED WITH PUMPS, AND CERTAIN PUMPS. PATRICK J. SHOUVLIN, Springfield, Ohio.
Filed October 19, 1920. Serial No. 138,519. PUBLISHED MARCH 1, 1921.

144,279. MUSTARD OINTMENT. SMITH-FAUS DRUG CO., Salt Lake City, Utah.
Filed August 24, 1920. Serial No. 136,438. PUBLISHED MARCH 15, 1921.

144,280. BATH-SALTS. HERBERT W. SMITH, Washington, D. C.
Filed September 23, 1920. Serial No. 137,545. PUBLISHED MARCH 8, 1921.

144,281. CERTAIN NAMED PAPER. THE J. L. N. SMYTHE COMPANY, Philadelphia, Pa.
Filed December 13, 1920. Serial No. 141,039. PUBLISHED MARCH 22, 1921.

144,282. CIGARETTES. F. & E. SOTER CORP., New York, N. Y.
Filed December 15, 1919. Serial No. 126,069. PUBLISHED SEPTEMBER 28, 1920.

144,283. WHEAT-FLOUR. STANDARD MILLING COMPANY OF NEW YORK, INC., New York, N. Y.
Filed December 18, 1920. Serial No. 141,281. PUBLISHED MARCH 15, 1921.

144,284. CERTAIN NAMED TOILET PREPARATIONS. TANTY, INC., New York, N. Y.
Filed August 25, 1920. Serial No. 136,491. PUBLISHED MARCH 8, 1921.

144,285. DUST-CLOTHS READY FOR USE. TATE MANUFACTURING COMPANY, Boston, Mass.
Filed January 12, 1921. Serial No. 142,181. PUBLISHED MARCH 1, 1921.

144,286. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. ERNEST J. TOWNSEND, East Lynn, Mass.
Filed August 12, 1920. Serial No. 136,049. PUBLISHED MARCH 1, 1921.

144,287. CERTAIN NAMED TOILET ARTICLES. TUSKELOID COMPANY, INC., New York, N. Y.
Filed August 12, 1919. Serial No. 121,608. PUBLISHED MARCH 8, 1921.

144,288. CERTAIN NAMED TOILET ARTICLES. TUSKELOID COMPANY, INC., New York, N. Y.
Filed August 12, 1919. Serial No. 121,609. PUBLISHED MARCH 8, 1921.

144,289. WATERLESS SOAP. UZUM PRODUCTS CO. INC., New York, N. Y.
Filed August 29, 1919. Serial No. 122,141. PUBLISHED MARCH 15, 1921.

144,290. CHEMICAL GASOLENE-SAVER IN TABLET FORM. VEE GEE MFG. CO., Omaha, Nebr.
Filed January 22, 1921. Serial No. 142,680. PUBLISHED MARCH 8, 1921.

144,291. MINERAL WATERS. VERONICA MEDICINAL SPRINGS WATER CO., Santa Barbara, Calif.
Filed October 14, 1920. Serial No. 138,309. PUBLISHED MARCH 8, 1921.

144,292. SHINGLES, ROOFING-TILE, ROOFING-SLABS, COMPOSITION ROOFING, AND ROOFING-CEMENT. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y.
Filed November 29, 1920. Serial No. 140,415. PUBLISHED MARCH 15, 1921.

144,293. SHINGLES, ROOFING-TILE, ROOFING-SLABS, COMPOSITION ROOFING, AND ROOFING-CEMENT. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y.
Filed November 29, 1920. Serial No. 140,416. PUBLISHED MARCH 15, 1921.

144,294. COMMON SOAP AND CLEANING PREPARATIONS FOR FABRICS. W. & F. WALKER LIMITED, Liverpool, England.
Filed November 29, 1920. Serial No. 140,417. PUBLISHED MARCH 15, 1921.

144,295. TOOTH, HAIR, CLOTH, HAT, NAIL, AND FACE BRUSHES. WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill.
Filed July 28, 1920. Serial No. 135,538. PUBLISHED MARCH 1, 1921.

144,296. MEN'S, WOMEN'S, AND CHILDREN'S UNDERGARMENTS IN COTTON, SILK, AND KNITTED FABRICS. WESTERN DRY GOODS CO., Seattle, Wash.
Filed August 24, 1920. Serial No. 136,450. PUBLISHED FEBRUARY 15, 1921.

144,297. FRAMES, MOUNTINGS, AND PARTS OF SPECTACLES AND EYEGLASSES, AND LORGNETTES. C. A. WILKINSON COMPANY, Providence, R. I.
Filed December 3, 1920. Serial No. 140,580. PUBLISHED MARCH 8, 1921.

144,298. GAS CYLINDERS OR BOTTLES. WILLIAM WHARTON JR. & CO. INCORPORATED, Easton, Pa.
Filed September 10, 1920. Serial No. 137,059. PUBLISHED MARCH 8, 1921.

144,299. EYEBROW-DRESSING. JAMES LESLIE YOUNGHUSBAND, Chicago, Ill.
Filed October 4, 1920. Serial No. 137,901. PUBLISHED MARCH 8, 1921.

144,300. GENERAL TONICS. ZIPERN & ROBINS, Brooklyn, N. Y.
Filed September 30, 1920. Serial No. 137,799. PUBLISHED MARCH 8, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JUNE 28, 1921.

144,301. (CLASS 39. CLOTHING.) AMERICAN HOSIERY COMPANY, New Britain, Conn. Filed Feb. 12, 1921. Serial No. 143,473.

Heath Coat

Particular description of goods.—Heath Coats.
Claims use since Mar. 19, 1918.

144,302. (CLASS 39. CLOTHING.) AMERICAN HOSIERY COMPANY, New Britain, Conn. Filed Feb. 12, 1921. Serial No. 143,474.

HeathJacket

Particular description of goods.—Heath Jackets.
Claims use since Mar. 19, 1918.

144,303. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE AMOLE SOAP COMPANY, Tippecanoe City, Ohio. Filed Apr. 4, 1921. Serial No. 145,666.

TARGRIT

Particular description of goods.—Soap.
Claims use since Oct. 11, 1901.

144,304. (CLASS 39. CLOTHING.) ALFRED BEER CO. INC., New York, N. Y. Filed Dec. 27, 1920. Serial No. 141,512.

STYLISH STOUT

Particular description of goods.—Shirtwaists and Blouses.
Claims use since Mar. 15, 1917.

144,305. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,939.

NEWMARKET BOND

Particular description of goods.—Writing and Printing Papers, Ruled Papers, and Papers Intended for Envelops.
Claims use since 1916.

144,306. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,941.

FIBERSPUN BOND

Particular description of goods.—Writing, Printing, and Typewriting Papers, Non-Carbonized Paper for Manifolding Works, and Paper for Order-Books.
Claims use since 1913.

144,307. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITOL REFINING CO., South Washington, Va. Filed Dec. 20, 1920. Serial No. 141,295.

VIRGINIA

Particular description of goods.—Butter-Oil.
Claims use since January, 1914.

144,308. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITOL REFINING CO., South Washington, Va. Filed Dec. 21, 1920. Serial No. 141,358.

POTOMAC

Particular description of goods.—Cotton-Seed Cooking-Oils.
Claims use since January, 1914.

144,309. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE COLUMBIA RIBBON CO., Paterson, N. J. Filed Oct. 17, 1919. Serial No. 123,877.



Particular description of goods.—Ribbon in the Piece.
Claims use since March, 1918.

144,310. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. A. COMPTON, Coshocton, Ohio. Filed Dec. 2, 1920. Serial No. 140,522.

"KNOWN FOR TONE"

Particular description of goods.—Phonographs.
Claims use since about April, 1916.

144,311. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHNSON COWDIN & COMPANY, INC., New York, N. Y. Filed Jan. 15, 1921. Serial No. 142,290.

Jutone

Particular description of goods.—Ribbons and Goods in the Piece—Namely, Silks and Satins, Mixtures of Silk and Linen and Silk and Cotton.
Claims use since January, 1918.

144,312. (CLASS 2. RECEPTACLES.) THE CRONKHITE COMPANY, Boston, Mass. Filed Sept. 20, 1920. Serial No. 137,362.

CRONKHITE

Particular description of goods.—Fiber-Ware Receptacles—Namely, Cans, Barrels, Roving and Doffing Trucks, Boxes, Trays, and Mill or Factory Trunks.
Claims use since about Jan. 1, 1917.

144,313. (CLASS 39. CLOTHING.) ADRA L. DAY, Danvers, Mass. Filed Dec. 10, 1920. Serial No. 140,867.

IDEAL BABY SHOE

Particular description of goods.—Sheepskin, Kid, Calf, and Fabric Shoes, Slippers, and Booties.
Claims use since Mar. 1, 1903.

144,314. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRANK DUFFECK, Toledo, Ohio. Filed Dec. 27, 1920. Serial No. 141,517.

DEPENDABLE

Particular description of goods.—The Following Electrical Apparatus: Generators, Motors, Ignition Systems, Transformers, Coils, Switches, Terminals, and Connectors.
Claims use since early in 1918.

144,315. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, BY GEORGES ROCHÉ, ADMINISTRATOR, Paris, France. Filed May 3, 1918. Serial No. 110,627.

NOVARSENOBENZOL BILLON

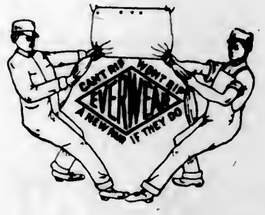
Particular description of goods.—Curative Vaccins.
Claims use since about August, 1917.

144,316. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ETABLISSEMENTS POULENC FRÈRES, BY GEORGES ROCHÉ, ADMINISTRATOR, Paris, France. Filed May 3, 1918. Serial No. 110,629.

ARSENOBENZOL BILLON

Particular description of goods.—Dihydrochlorid of Dioxydiaminoarsenobenzol.
Claims use since about June, 1911.

144,317. (CLASS 39. CLOTHING.) EVERWEAR MANUFACTURING CO., San Francisco, Calif. Filed June 25, 1920. Serial No. 134,185.



Particular description of goods.—Overalls, Auto-Suits, and Work-Coats.
Claims use since Jan. 10, 1920.

144,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) I. FINE & CO., INC., New York, N. Y. Filed Feb. 27, 1920. Serial No. 128,958.

NU-KREM

Particular description of goods.—A Product Which is a Substitute for Cream, Whether Sweet or Sour.
Claims use since Jan. 1, 1920.

144,319. (CLASS 39. CLOTHING.) W. H. GRIFFIN COMPANY, Manchester, N. H. Filed Mar. 2, 1921. Serial No. 144,227.

Griffin

Particular description of goods.—Men's, Boys', and Youths' Leather Shoes.
Claims use since February, 1896.

144,320. (CLASS 39. CLOTHING.) HYGRADE KNITTING CO., New York, N. Y. Filed July 22, 1920. Serial No. 135,280.

HYGRADE Knitted Products

Particular description of goods.—Knitted Clothing and Knitted Articles of Wearing-Apparel—Namely, Knitted Sweaters, Knitted Scarfs, Knitted Mufflers, Knitted Reefers, Knitted Smocks, Knitted Tuxedo-Coats, Knitted Slip-Overs, Knitted Coats, Knitted Bathing-Suits, Knitted Caps, Knitted Mittens and Gloves, Knitted Children's Trousers, Knitted Children's Leggings, Knitted Children's Coats, Knitted Children's Jackets.
Claims use since May 7, 1919.

144,321. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY B. KLOSTERMAN, Cumberland, Md. Filed Apr. 16, 1920. Serial No. 131,222.

Klosterman's

Particular description of goods.—Yeast.
Claims use since Apr. 1, 1920.

144,322. (CLASS 39. CLOTHING.) MARK M. KONSKI, New York, N. Y. Filed Dec. 7, 1920. Serial No. 140,731.

MANHATTAN BOY

Particular description of goods.—Blouses.
Claims use since November, 1917.

144,323. (CLASS 39. CLOTHING.) THE KROHN-FECHHEIMER CO., Cincinnati, Ohio. Filed Jan. 11, 1921. Serial No. 142,081.

"Bends with your foot"



TRADE MARK

Particular description of goods.—Ladies' and Misses' Leather Shoes.
Claims use since July 25, 1905.

144,324. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKE ODESSA CANNING CO., Lake Odessa, Mich. Filed Mar. 15, 1920. Serial No. 129,730.

ODESSA BRAND

Particular description of goods.—Canned Fruits—Namely, Canned Apples—and Canned Vegetables—Namely, Canned Peas, Canned Beans, and Canned Corn.
Claims use since Mar. 3, 1919.

144,325. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERHARD LANG, Buffalo, N. Y. Filed Dec. 6, 1920. Serial No. 140,663.

HOME OF PURE FOODS

Particular description of goods.—Fresh Meats Consisting of Beef, Lamb, Veal, and Pork; Smoked Meats Consisting of Ham, Bacon, Tongue, and Dried Beef; Salted Meats Consisting of Corned Beef, Salted Pork, and Salted Tongue, and Lard.
Claims use since May 1, 1915.

144,326. (CLASS 39. CLOTHING.) LANPHER, SKINNER AND COMPANY, St. Paul, Minn. Filed Mar. 22, 1920. Serial No. 130,049.

LANPHER

Particular description of goods.—Sheepskin-Lined Coats.
Claims use since about Jan. 1, 1918.

144,327. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIMESTONE PHOSPHATE COMPANY, Jersey City, N. J. Filed Jan. 7, 1921. Serial No. 141,954.

Limestone

Particular description of goods.—Laxatives.
Claims use since Sept. 4, 1915.

144,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. MAGNANO CO., Seattle, Wash. Filed Dec. 21, 1920. Serial No. 141,381.



Particular description of goods.—Olive Oil.
Claims use since May 10, 1909.

144,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Apr. 7, 1919. Serial No. 117,243.

PETROLE

Particular description of goods.—Hair-Tonic.
Claims use since on or about Sept. 1, 1913.

144,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX SCHUCKL, San Francisco, Calif. Filed Nov. 23, 1920. Serial No. 140,079.

ELWOOD

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Jan. 23, 1920.

144,331. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 15, 1920. Serial No. 138,352.

SIMMONS

Particular description of goods.—Golf-Clubs, Fishing-Rods, Reels, Minnow Seines and Nets, Caddie-Bags.
Claims use since Jan. 16, 1913.

144,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. J. SWANN, Boston, Mass. Filed Oct. 3, 1919. Serial No. 123,405.

E. J. Swann's

Particular description of goods.—A Medical Preparation for the Treatment of Rheumatism, Lumbago, Sore Limbs, Joints, and Similar Aches and Pains.
Claims use since July 7, 1919.

LABELS

REGISTERED JUNE 28, 1921.

23,025.—*Title:* "AT-WATER." (For Fresh Fruits.) ATWATER FRUIT EXCHANGE, Atwater, Calif. Filed September 23, 1920.

23,026.—*Title:* "O-CEDAR." (For a Polish for Furniture, Floors, Linoleum, Pianos, and Autos.) CHANNELL CHEMICAL COMPANY, Chicago, Ill. Filed March 8, 1921.

23,027.—*Title:* "WESTERN." (For Grapes.) DINUBA GRAPES GROWERS ASSN., Dinuba, Calif. Filed February 1, 1921.

23,028.—*Title:* "GOOD LUCK MALT SYRUP." (For the Containers of a Concentrated Syrup Manufactured from Malt and other Grain.) ELMER L. EMERSON, Milwaukee, Wis. Filed October 20, 1920.

23,029.—*Title:* "ROYAL MARBLE CLEANER." (For Cans Containing Royal Marble-Cleaner.) B. HELLER & Co., Chicago, Ill. Filed February 21, 1921.

23,030.—*Title:* "BELEENA." (For Cigars.) A. C. HENSCHEL & Co., Chicago, Ill. Filed December 16, 1920.

23,031.—*Title:* "LA VALETA." (For Cigars.) A. C. HENSCHEL & COMPANY, Chicago, Ill. Filed March 21, 1921.

23,032.—*Title:* "JIFFY-PIE." (For Cartons Containing a Mixture for Making Pie, Custard, Pudding, and Cake-Filling.) JIFFY DESSERT COMPANY, Waukesha, Wis. Filed February 23, 1921.

23,033.—*Title:* "KELLOGG'S COOKED BRAN." (For a Food Specifically Known as "Kellogg's Cooked Bran.") KELLOGG TOASTED CORN FLAKE Co., Battle Creek, Mich. Filed March 5, 1921.

23,034.—*Title:* "FLOR DE GALINDO." (For Cigars.) LA LINDA DIANA CIGAR COMPANY, New York, N. Y. Filed March 2, 1921.

23,035.—*Title:* "CARPENTER'S." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Carpenter Ice Cream Company, St. Louis, Mo. Filed February 23, 1921.

23,036.—*Title:* "SAFFORD CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Safford Ice & Creamery Co., Safford, Ariz. Filed February 23, 1921.

23,037.—*Title:* "GATE CITY ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Gate City Dairy & Ice Cream Co., Atlanta, Ga. Filed February 23, 1921.

23,038.—*Title:* "ROBIN BRAND BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Eau Claire Creamery Company, Eau Claire, Wis. Filed February 23, 1921.

23,039.—*Title:* "CREAM CITY BRAND." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Milwaukee Butter Company, Milwaukee, Wis. Filed March 28, 1921.

23,040.—*Title:* "PURITY ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to York Sanitary Milk Company, York, Pa. Filed March 28, 1921.

23,041.—*Title:* "EVERGOLD BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Parrott and Ganter Company, Atchison, Kans. Filed March 28, 1921.

23,042.—*Title:* "THE CO-OPERATIVE CIGAR." (For Cigars.) THE MILWAUKEE CO-OPERATIVE CIGAR COMPANY, Milwaukee, Wis. Filed January 13, 1921.

23,043.—*Title:* "AUNT MOLLY'S BUTTER CREAMS." (For Boxes Containing Butter-Creams.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed March 7, 1921.

23,044.—*Title:* "NUFORAL." (For a Preparation to be Used in Connection with the Treatment of Tuberculosis.) NUFORAL LABORATORIES, INC., New York, N. Y. Filed February 23, 1921.

23,045.—*Title:* "ONE DOZEN EXTRA SELECTED CORN BELT LARGE SIZE EGGS." (For Cartons Containing Eggs.) PIONEER CREAMERY CO., Galesburg, Ill. Filed February 23, 1921.

23,046.—*Title:* "RALSTON A WHEAT FOOD." (For Cereal Food.) RALSTON PURINA COMPANY, St. Louis, Mo. Filed January 19, 1921.

23,047.—*Title:* "BUTTERCUP." (For Bread.) SANI-WAX PAPER CO., Kalamazoo, Mich. Filed March 5, 1921.

23,048.—*Title:* "CARNATION." (For Bread.) SANI-WAX PAPER CO., Kalamazoo, Mich. Filed March 5, 1921.

23,049.—*Title:* "DR. TINKER'S FORMULA GOLD FOR CAST CROWN AND BRIDGE WORK." (For Packages Containing Dental Gold.) EDWARD T. TINKER, Minneapolis, Minn. Filed January 24, 1921.

23,050.—*Title:* "HELEN WARE'S HAIR TONIC." (For Receptacles Containing Hair-Tonic.) WARE MFG. Co., Cleveland, Ohio. Filed August 11, 1920.

23,051.—*Title:* "STANSBERY WONDER SALVE." (For Labels Placed Around Containers Holding Said Salve.) M. E. WHITE, Washington, D. C. Filed October 5, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

BROWNING *v.* JOHNSON.

Decided April 4, 1921.

1. PATENTS—EVIDENCE HELD TO SHOW SENIOR APPLICANT DERIVED INVENTION FROM JUNIOR.

Evidence that the junior applicant conceived the invention long prior to the date claimed by the senior applicant and that he exhibited it to a patent solicitor, who showed it to the senior applicant, and other circumstances *Held* to show that the senior applicant derived his invention from the junior applicant and was not an original inventor.

2. SAME—NEITHER APPLICANT NOR ASSIGNEE CAN CHARGE PARTY FROM WHOM THEY DERIVED THE INVENTION WITH LACHES.

Where the evidence in interference proceedings showed that the senior applicant was not an original inventor, but that he derived the invention from the junior applicant, neither the senior applicant nor his assignee can charge the junior applicant with lack of diligence or laches or estoppel by public use.

Mr. Melville Church and *Mr. George W. Case* for Browning.

Mr. Richard Eyre and *Mr. William H. Kenyon* for Johnson.

VAN ORSDEL, *J.*:

The invention in interference relates to a talking-machine with the mechanical parts inclosed in a cabinet. Prior to the invention in issue, the amplifying-horn was situated on top of the reproducing mechanism and exposed to view. The present invention was designed to inclose the amplifier in the cabinet in such manner that it would give forth sufficient volume of sound. It also contemplates a plurality of doors to regulate the sound issuing from the amplifier. The issue is in a single count, as follows:

> The combination with sound reproducing means, of a coöperating amplifier, a cabinet inclosing the major portion of said amplifier and provided with an opening, of substantially the same size as the delivery end of said amplifier, and means to vary the quality of the reproduction at will on either side of said cabinet.

The party Johnson filed his application January 12, 1906, on which a patent was issued January 11, 1910. The party Browning filed his application January 18, 1908.

Browning copied the claims in issue from the Johnson patent in June, 1915, at the suggestion of the Patent Office, for the purpose of interference.

It appears that Browning, in 1897, prepared a rough drawing on the back of a dance-card, disclosing the invention in issue. This was signed by Browning and certified to by two competent witnesses. This alone, we think, established conception and disclosure. This was followed, however, by other drawings and the construction of certain rough models which clearly disclosed the invention. As Johnson's alleged conception is 1903, and the earliest date to which his proof will entitle him, is May, 1905, it must be held that Browning was the first to conceive and disclose the invention in issue.

It will be observed that we are here dealing with long periods of time. The action of neither party is indicative of great diligence. Browning conceived in 1897, reduced to practice by the construction of commercial machines at Kansas City, Mo., where he was then located, in the latter part of 1907, filed in 1908, and presented the present claim in response to the suggestion of the Patent Office in 1915. Johnson conceived in May, 1905, filed in January, 1906, put machines on the market, through his assignee, the Victor Talking Machine Company, in August, 1906, presented his claim corresponding to the present issue in December, 1909, and was awarded a patent January 11, 1910.

But these dates are of little importance, since the case turns upon the single question of originality. Was Johnson an original inventor, or did he derive the invention from Browning? Browning entered the employ of the Victor Talking Machine Company, of which Johnson was the president, in 1901. His position was that of inspector of motors, indicating to some extent, at least, skilled knowledge of the business. In the summer of 1900, Browning, in company with his wife, took what is known as "Sketch Exhibit No. 7," which is a complete disclosure of the invention, to Mr. Horace Pettit, of Philadelphia, to ascertain the cost of procuring a patent. Pettit was at that time attorney for Johnson, and, after the organization of the Victor Talking Machine Company in 1901, he became its attorney, and continued such until the date of his death in 1914. The price named by Pettit for procuring a patent seemed high to the Brownings, and they expressed a desire to take time to consider it. Pettit suggested that the sketches be left with him and he would submit them to a client

of his, a Mr. Johnson, of Camden, who was engaged in the business of manufacturing talking-machines. Browning then attempted to induce a friend by the name of Stafford to take an interest in the invention and furnish the money necessary to secure a patent. To this end, Browning and Stafford visited Pettit's office to consult him with reference to the procuring of a patent. Pettit informed them that he had laid the matter before Johnson, but had failed to interest him in the invention; that a patent could be procured, but that they would not be able to market the machines, because of certain other existing patents. Following this interview, Stafford, who had taken further time to consider the matter, wrote Browning the following letter:

2073 E. ELKHART ST.,
PHILADELPHIA, PENNA.,
Oct. 20, 1900.

FRIEND JOHN:

Your letter received. I think the price Mr. H. Pettit asks for securing us the patent on the two drawings, he returned to you is too much. I don't understand his remarks about getting a patent, and not being allowed to sell the talking machine on account of some other patent.

This probably explains why he was unable to interest his client E. Johnson that he mentioned.

I will be over to see the machine next week and discuss the matter more fully.

Sincerely yours,

ROB.

These facts are positively testified to by Browning and his two corroborating witnesses. They are also strongly supported by corroborating circumstances. Browning also testifies to three disclosures, at least, of the invention to Johnson and to other officers of the Victor Talking Machine Company between 1901 and 1905. Johnson, on the excuse of sickness, failed to testify. Pettit was dead when the testimony was taken, and while others named by Browning in connection with the disclosures testified, no positive denial was interposed by any one of them in reference to the disclosure of the invention to Johnson and his associates. Unless we are to discredit by the wholesale competent witnesses who stand unimpeached, this record overwhelmingly discloses that Johnson derived the invention from Browning. Hence, neither he nor his associates are entitled to benefit from the monopoly conferred by the patent.

This disposes of the case, since neither Johnson nor his assignee is in position to charge Browning with lack of diligence, laches, or estoppel by public use, as has been attempted.

The decision is reversed.

Reversed.

The decision of the Assistant Commissioner of Patents reads as follows:

COULSTON, *Assistant Commissioner:*

This is an appeal from a decision of the Examiners-in-Chief reversing a decision of the Examiner of Interferences and awarding priority of invention to the senior party, Johnson.

The issue is comprised in the following comparatively specific count:

"The combination with sound reproducing means, of a coöperating amplifier, a cabinet inclosing the major portion of said amplifier and provided with an opening, of substantially the same size as the delivery end of said amplifier, and means to vary the quality of the reproduction at will on either side of said cabinet."

One of the parties, Johnson, prior to 1901 ran a general machine-shop in Camden, N. J., at which, among other things, talking-machine parts were sometimes made. In that year he assisted in organizing and became president of the Victor Talking Machine Co., which office he still holds. The other party, Browning, was an employee of the Victor Company, with brief exceptions, from practically its inception until the summer of 1907, when he moved to Kansas City.

Johnson is involved in the interference on a patent granted January 11, 1910, on an application filed January 12, 1906. Browning is involved on an application filed January 18, 1908.

The principal question to be decided is one of originality of invention. The burden of proof by a preponderance of the evidence rests upon Browning by reason of his later filing date.

In reaching my conclusions I have had occasion not only to read the records but to prepare a rather extensive analysis, which, for the most part, I have decided to incorporate in my decision, at the risk of rendering it less easily read, but in the hope of conveying a better idea of the character of the proofs than a briefer statement would give.

The proofs submitted on behalf of Johnson set forth an alleged disclosure by him to his brother-in-law, MacEwan, in January, 1908, while they were inspecting a cellaret at Van Sciver's dining-place in Camden, N. J. It appears from MacEwan's account that what Johnson then disclosed was " * * * an idea of having a talking machine constructed with the doors in front of the opening of the horn so by operating the doors by opening and closing, he could regulate and modify the sound."

This disclosure did not embrace all features of the count. For example, it did not specify that the cabinet was to inclose the "major portion of the amplifier" or that it was to be "provided with an opening of substantially the same size as the delivery end of said amplifier."

According to the testimony Johnson somewhat later had MacEwan take another employee of the company, English, who was in charge of an experimental laboratory, down to Van Sciver's to see the cellaret and have Johnson's idea explained to him. This was done, and English made a drawing of a cabinet (Johnson's Exhibit No. 1), which does not disclose the issue, for one reason because it shows no means or doors to vary the sound on either side of the cabinet. From this drawing English had one Medara, a carpenter, make the small Medara cabinet (Johnson's Exhibit No. 2). This device has now no doors; but there is sufficient testimony to establish that it did when made in September or October, 1903. However, this device, even equipped with its doors and when fitted up with a top, like Johnson's Exhibit No. 3, a reproducer, a motor, the sound-conveyer tube, (Johnson's Exhibit No. 6,) and the amplifier, (Johnson's Exhibit No. 4,) did not and does not answer the count because the opening in the cabinet is not "substantially the same size as the delivery end of the amplifier," but much larger.

The next cabinet produced—the large Medara cabinet, (Johnson's Exhibit No. 3)—and its successor—the Townsend cabinet, (Johnson's Exhibit No. 14)—admittedly do not answer the count because they have but one door.

The next cabinets produced by Johnson are known as the "Stevens" cabinets, (Johnson's Exhibits 18 and 19.) These were built in March, 1905. They were thereafter fitted up under the direction of English and Johnson. Both of these cabinets had single doors when delivered. Johnson had the door of Exhibit No. 19 altered and a "sugar-bin-like" structure (Johnson's Exhibit No. 27) inserted in front of the horn. It is not contended that this cabinet in any form ever embodied the issue. Later the Stevens cabinet (Johnson's Exhibit No. 18) had its original single door removed and small double doors mounted on the lower part thereof, as it now stands. This occurred in May, 1905, and both tribunals below have held that this exhibit so formed and supplied with the horn, (Johnson's Exhibit No. 26,) a reproducer, and motor embodied the issue and shows that Johnson was in possession of the invention at that date. With this conclusion I can not agree, because manifestly the opening in this cabinet is not "substantially the same size as the delivery end of the amplifier," but very much larger. It does not appear from the proofs what, if any, form of closure Johnson contemplated for the opening above the double doors in his Exhibit No. 18.

The next cabinet made for Johnson was the Sheip cabinet, (Johnson's Exhibit No. 36.) MacEwan testifies that he completed the drawing (Johnson's Exhibit No. 33) showing the exterior configuration and door arrangement of this device prior to June 17, 1905, just a day or so before English returned from Europe on that date. This drawing does not disclose the complete subject-matter of the issue; but the Sheip cabinet was built and delivered to the laboratory of the Victor Company, at 118 Cooper street, some time during the last two weeks of August, 1905, and was fully fitted up when MacEwan returned from his vacation, September 1, 1905. (Qs. 382, 383, 387, pp. 88, 89, Johnson's record.) This cabinet was equipped with a horn made by Diehl, Johnson's Exhibit No. 37, (Q. 390, p. 89; Q. 393, p. 90;) with a tone-arm bracket like that on Johnson's Exhibit No. 19, Stevens's cabinet B, (Q. 399, p. 91,) Johnson's Exhibit No. 51 being the identical bracket, (Q. 301, p. 299;) with a tone-arm of the same type as that shown in United States Patent No. 834,511, Johnson's Exhibit No. 16, (Q. 400, p. 91,) Johnson's Exhibit No. 50 being one, (Q. 303, p. 299,) and with a motor like Johnson's Exhibit No. 52, (Q. 298, p. 298.) This device so constructed embodied the issue and was, according to MacEwan, tested by MacEwan, Diehl, and English September 1, 1905, (Q. 397, p. 90.) Diehl fully corroborates MacEwan as to the construction and testing of the Johnson Exhibit No. 36 Sheip cabinet in the fall of 1905 and states that Johnson also was present at the tests, at which a number of different horns, including Johnson's Exhibits Nos. 31 and 59, were tried out in this cabinet, the small doors in front thereof being opened and closed to regulate the sound.

Troth, who was purchasing agent or assistant purchasing agent for the Victor Company in 1905, testifies that he and English gave instructions to one Gilbert, of the Sheip Manufacturing Company, for the construction of the Sheip cabinet, (Johnson's Exhibit No. 36,) which was built in August, 1905.

I am satisfied from the foregoing proof that Johnson not only had knowledge of the invention but reduced it to practice as early as September, 1905.

It seems that English was not quite satisfied with the design of the Sheip cabinet from the standpoint of appearance, and steps were taken for producing a more acceptable form. Two cabinets were ordered from Stout Brothers in October, 1905, and delivered in November, 1905. These are Johnson's Exhibits Nos. 40 and 41. Thereafter, late in 1905, two other cabinets designed by a Mr. Pitts, of the Lincoln Furniture Company, were ordered from that company. One of these (Johnson's Exhibit No. 54) is in evidence and has been identified by both MacEwan and Troth, who ordered it. Its companion was sent to the Gramaphone Company, of London, England.

On February 16, 1906, a meeting was held by the officials of the Victor Company, at which it was decided that slight changes, wholly immaterial to this issue, should be made in the Lincoln cabinet. These changes included staining the inside of the cabinet the same shade as its outside, painting the horn black, removing carved work from record-doors, and building the cover so as to slightly project in front to facilitate opening. Johnson's Exhibit No. 55 is one of these modified forms, which became the factory product. It was made on or about October 4, 1906. (Johnson's rec., p. 734, stipulation 4.)

There is a stipulation on pages 734 and 735 of Johnson's record to the effect that from August 22, 1906, continuously up to the present time the Victor Talking Machine Company has manufactured and sold cabineted talking-machines embodying in their construction the issue of this interference, under the registered trade-mark "Victrola;" that during the said period the said company has manufactured and sold many thousands of such talking-machines embodying the construction of the issue and is now extensively so engaged. Browning testifies (Q. 136, p. 70, Browning's rec.) that on November 3, 1906, the first "Victrola" sample passed through the shipping department of the Victor Company and was sent to the trade. He states that he then held a position in that department requiring his inspection and report on each machine so passsed and that others came through on November 22, 1906.

Browning claims not only to have conceived and reduced the invention to practice prior to Johnson's earliest date, but to have disclosed it to Johnson and his associates on several different occasions. Browning did not, however, file his own application until January 18, 1908, and did not copy the claim in issue from Johnson's patent, which issued on January 11, 1910, and was cited against claims in Browning's application on May 12, 1911, until June 18, 1915, after it was suggested by the Patent Office for interference. These delays, following actual knowledge of the marketing of the device in issue by the Victor Company and extending over a long period, during which that Company at great expense built up an enormous business largely based on the subject-matter covered by the Johnson patent, makes it incumbent upon Browning to establish a very clear case if he is to prevail.

The Examiner of Interferences held that Browning's proofs as to priority meet the requirements that confront him; that Johnson is shown to have derived the invention from him, a conclusion based largely upon the failure of Johnson to take the stand, but that Browning should be held estopped from obtaining a patent by reason of his laches.

The Examiners-in-Chief reversed this decision, holding that Browning has advanced a fictitious case and that Johnson is the original and only true inventor.

Browning's proofs, in addition to oral testimony, comprise a relatively large number of crudely-constructed models and sketches. The models are accompanied, almost without exception, by sketches and descriptive matter explanatory of the structures shown, and these sketches are regularly witnessed and dated. Disregarding the surrounding circumstances, which the Examiners-in-Chief found sufficient to discredit Browning's whole case, his proofs would be regarded as unusually full and convincing. Indeed, the very perfection and skill with which Browning's case has been constructed and presented is calculated to put the reader upon the closest inquiry, because it is rare, indeed, that an inventor builds up and preserves such a history of his achievements as Browning has produced. He has been through several interferences, and it has been suggested that he has had an opportunity to learn of the kind of evidence that is usually accepted.

Browning's principal supporting witnesses comprise a very restricted circle of close relatives and friends. They are his wife, Susan Browning, who, in addition to being interested as a wife, is admittedly financially interested in the case in the sense that she has loaned Browning money in furthering his activities in connection therewith; Mrs. Lillian Bennett, intimate associate of Mrs. Browning for many years; Robert Stafford, close friend of Browning and sufficiently acquainted with Mrs. Browning and Mrs. Bennett to address them as "Sue" and "Lil," and Matthew G. Coombs, Browning's brother-in-law, a brother of Mrs. Browning.

The testimony of his subordinate witnesses lends but little support to Browning's main case, discussion of the leading features of which follows:

Browning testifies that he conceived the invention in the early part of 1897, and fixes the date by a dated sketch and description that he says he made on a program on Monday evening, May 3, 1897. The program mentioned is introduced in evidence as Browning's Exhibit No. 1. It has not been disputed that it discloses the issue, although there is no certain disclosure here of that feature of the count which requires that the opening in the cabinet shall be "of substantially the same size as the delivery end of the amplifier."

In an up-and-down direction the sounding-boards 6 of the amplifier may be said to form an amplifier with a delivery end of substantially the size of the cabinet-opening, but in a horizontal direction there is no disclosure at all as to this feature, and it is not mentioned in the descriptive matter on the sketch. Consideration of Browning's Exhibit No. 16, later to be mentioned, reveals an example of cabinet which does not embody the issue for this very reason.

Browning testifies that Browning's Exhibit No. 1, including both sketch and description, was made in a restaurant, after a dance, in the presence of Sue Coombs, the future Mrs. Browning, and her friend, Mrs. Bennett, for the purpose of an explanation and was explained to them. They corroborate him very positively as to this. The sketch carries the signature of Sue Coombs and Lillian Bennett, and the name of J. B. Browning is signed to both sketch and description.

Some noteworthy features of this important exhibit will now be mentioned, and, first, the fact that the construction portrayed is seemingly much more perfect and much nearer to the Victrola arrangement of parts than a number of Browning's admittedly later devices—for example, his exhibit devices 15, 26, and 27. The latter is a device like that shown in Browning's application; but instead of being a unitary cabinet designed to contain both a motor and amplifier it is a sort of cover-cabinet for a common type of talking-machine of its day, designed to rest thereon, and it carries only an amplifier.

Another significant fact is that it does not appear that Browning ever thought of the invention shown in his Exhibit No. 1 prior to the time he entered the restaurant or what familiarity he then had with talking-machines, and it is surprising, to say the least, that he should have been able to produce off hand a form of structure apparently so similar to that developed only after two or three years' experimentation by the Victor Company and even after Browning claims to have disclosed his invention to Johnson and that it should at the very first appear in a form over which Browning himself never later on succeeded in making improvements.

The description of the structure shown in the sketch is not worded as one would expect to find it if written, as is claimed, merely to explain the structure to Browning's female companions. In the first place, to have taken the time and trouble to have written a description at all, while acting as host to these young women at a dinner after a dance, is rather extraordinary, especially as it would have been much easier to have contented one's self with an oral explanation. The writing of a description of an invention in technical terms is not the enlivening form of entertainment usually adduced on such occasions. The description begins with a date, which could hardly have been written for the information of Browning's guests. The first statement reads: "Description of talking machine shown on opposite cover." This much, at least, would naturally have been left to inference or oral statement unless the writer was looking forward to a possible future use for this exhibit. The description also contains certain expressions—*e. g.*, "cabinet containing," "a hollow rigid casting supporting a sound box and its connection in coöperation," "sounding boards," "rigid hollow bracket," and "pivoted movable sounding boards or horizontal modifiers"—which, while they may have naturally flowed from Browning's mind as he wrote, lead one to wonder that so many new objects could have been so spontaneously concerned, so skilfully sketched, and so aptly named while the author was playing in the role of host to two young ladies at a dinner after a dance.

Counsel for Johnson has called attention to the similarity in construction of this sketch of the "sounding boards" 66, rigidly supported at one end by a "rigid hollow bracket" and free at the other, to a similar structure covered by a patent—No. 947,227—to English, the mechanical expert of the Victor Company. This patent was applied for in 1906 through Horace Pettit, as attorney, and in its specification the expressions "sound boards," "hollow bracket," "rigid hollow structure," "rigid bracket," "rigid hollow bracket," "hollow rigid bracket rigidly supported," and similar expressions are frequently used. These expressions are strikingly similar to the expressions

used in the description of Browning's Exhibit No. 1. Browning does not claim to have disclosed his Exhibit No. 1 to Pettit or English, and it is interesting, if Browning used these expressions in 1897, to speculate as to how Pettit came to use them in July, 1906, when the English application was filed.

As counsel for Johnson has also pointed out, there is at least a strong suggestion in this Browning sketch of the tapering tone-arm with an axis substantially parallel to the axis of the amplifier and to the gooseneck-mounting for the sound-box of Johnson's patents, Nos. 814,786 and 814,848.

Another interesting feature of Browning's Exhibit No. 1 is the arrangement of the crank for winding the motor to project out of the top of the cabinet-casing. This is precisely the form of home-made crank constructed of small-diameter piping used to wind the motor employed as a part of Browning's Exhibit No. 3, which exhibit is said to have been built with two movable walls instead of doors prior to August 28, 1898, and is the same style of crank shown in Exhibit No. 2, a sketch of that device in that form and bearing that date. It appears from Mrs. Browning's testimony (X-Qs. 119–125, pp. 329—330) that Browning did not have this motor at the time his Exhibit No. 1 is said to have been prepared in May, 1897, but that she bought it for him second hand in the latter part of 1897 or the early part of 1898. The similarity of the structure of the crank shown by the sketch Exhibit No. 1 and the crank of the motor afterward bought is unexplained.

Still another interesting feature of the Browning Exhibit No. 1 is the use of double sound-modifying means, the horizontally-pivoted modifiers 7 7 7, and the vertically-pivoted modifiers or doors 9 9 for the opening in front of the amplifier. Just why this double arrangement of sound modification should have been proposed at the time is unexplained.

Mrs. Bennett testifies that the earliest time Browning spoke to her of his intentions in talking-machines was the night of the dance, the date of which she does not remember; but she volunteers: "The program tells that." (Qs. 10, 11, p. 226, Browning's rec.) She identifies the sketch Browning's Exhibit No. 1 and recalls the following conversation:

"While he was drawing it he said, 'I'm going to invent a machine to play without a horn.' We just smiled and then he finished drawing that and said, 'I want you both to sign this.' So we did."

She identifies her signature and that of Sue Coombs, says they were affixed that same evening, that the writing was on the front cover, and that she read it that evening. In answer to X-Q. 103 she testifies that Browning also read the description aloud after making and explaining the sketch, but neither she nor Miss Coombs paid much attention to it.

Mrs. Browning gives similar testimony and in answer to Q. 13, (p. 313, Browning's rec.,) as to whether she read the writing on Exhibit No. 1 or whether it was read over to her, states that she read the description, and it was while they "were waiting for lunch to be served." Thus it appears, if all this testimony is true, that Browning made the sketch and explained it orally, then wrote out a description of it and read it over to his companions, and then each of them read it for herself. This seems hardly likely, and especially as Mrs. Bennett says: "We were neither one particularly interested, so didn't pay much attention to it."

There is an interesting conflict in the testimony of Mrs. Bennett and Mrs. Browning also as to the time Browning was engaged in the making of his Exhibit No. 1. Mrs. Bennett testifies (X-Q. 91, p. 236) that they were at lunch about an hour and in X-Q. 97, (p. 237) that Browning was doing something at his Exhibit No. 1 "from the time we went in there until the time we left." Mrs. Browning testifies that they were at lunch about an hour and a half, of which a half-hour was spent eating (X-Q. 232, p. 346) and fifteen or twenty minutes waiting for a check after lunch, and that she read the description while they "were waiting for lunch to be served," which suggests that the exhibit was entirely made before eating began. If so, Browning's achievement is the more remarkable because executed in so short a time.

Mrs. Bennett is not very sure she understood what Browning disclosed. She says she did in a way. (X-Q. 96, p. 237.) Neither she nor Mrs. Browning had then seen the inside of a talking-machine so far as they know. Mrs. Bennett recalls dating the sketch; but her memory is not very reliable on other matters. She cannot recall what she ate, or who was the proprietor of the restaurant, or how many people were in the café, or what she wore or what Miss Coombs wore. Mrs. Browning, on the other hand, remembers almost too well, for she recalls, despite the lapse of twenty years, that there were very many people present and not only that she had chicken salad and fried oysters but, what is somewhat more surprising, she states that Mrs. Bennett had the same service as herself and Browning had "snapper soup," and that there was "coffee for three." Although Mrs. Browning remembers these remote occurrences so well, she does not know, or at least is not sure, on the 28th of May, 1918, whether her husband, although she seems to have been with him, reviewed the testimony in the evenings which he began to give on the 8th of the same month.

Taken altogether, Browning's proofs with reference to his Exhibit No. 1 are not convincing. I have dwelt upon them at much length because they stand at the very threshold of his story and serve in a way as a criterion by which to measure the further testimony he offers.

Browning testifies that his second step was the construction and demonstration of his device (Exhibit No. 3) with adjustable walls on either side to modify sound. This occurred, he states, prior to August 28, 1898, when he made a sketch (Browning's Exhibit No. 2) thereof. This sketch was dated, witnessed by S. M. Coombs, his future wife, and is identified by Mrs. Browning. This device and sketch do not embody the issue, since the amplifier and sound-modifying means are merged. Mrs. Browning fully corroborates Browning's testimony as to both.

Browning testifies that doors were placed on his Exhibit No. 3 prior to March 16, 1899, that it was then demonstrated and a sketch made thereof, (Browning's Exhibit No. 4.) This sketch is also dated, witnessed, and identified by S. M. Coombs, now Mrs. Browning. This sketch, however, shows side doors 19 and 20 equal to the full depth of the figure. The side doors of Exhibit No. 3 are only half as deep and the front doors are pivoted to rigid side walls thereof.

Stafford testifies that Browning played on Browning's Exhibit No. 3 for him in Browning's cellar in the latter part of the year 1900 and on several occasions; but he does not state how he fixes the date.

Matthew G. Coombs identifies Exhibit No. 3 as a construction Browning had completed as early as April, 1902, when the witness went to live at the Browning home, and where it was played for him. Neither he nor Stafford undertake to so testify to the details of the construction of this exhibit as to lead one to the conviction that they are sure of their understanding of it or its identification. No witness testifies that the device operated successfully.

Browning testifies that his next step was to arrange a small brass horn in Exhibit No. 3, with two horizontal movable sounding-boards, and to make a sketch and write a description of the same, which he signed and dated November 29, 1899, and which he had Sue M. Coombs sign and date. This sketch is offered in evidence as Browning's Exhibit No. 5. Mrs. Browning testifies that she and Browning signed it on November 29, 1899; but I find no further corroboration. The different figures of this sketch are not consistent as to door-mountings, nor do any of them correspond very closely to Exhibit No. 3 in this respect. The description of this sketch also uses the expression "hollow bracket" and "sounding boards."

Browning testifies that he next—in the summer of 1900—made the device introduced in evidence as "Browning's Exhibit No. 6 megaphone-cabinet" and arranged it in the lower compartment of his Exhibit No. 3, made a sketch of it, which is in evidence as his Exhibit No. 7, and, accompanied by his wife, (he was married April 18, 1900,) took this sketch and another to Horace Pettit to find out how much it would cost to get a patent; that he remembers that "the price was out of proportion for what he had heard others secure patents," and he further states:

"* * * I remember that Mr. Pettit suggested that if I left the sketches with him he would take it up with a client whom he mentioned, Mr. Johnson, who made talking machines in Camden, as he might be interested; he might be enabled to get him to promote this invention. This sketch I left and a short time afterward I met a party whom I knew, and whom I had tried before to interest, and I told him that I had made some improvements in my invention, describing it, and asked him if he thought he was still interested, and I took him with me to see my attorney Pettit and have him explain about what it would cost, as this is what we were interested in. Then Mr. Pettit told me that he had taken this matter up with his client, Mr. Johnson, the talking machine man of Camden, and said he was not interested. He, however, said he could get us a patent but said that we would not be able to manufacture and market this machine in view of some prior patent. The party, Mr. Stafford, said he would consider the matter. And then Mr. Pettit returned the drawings to me at this time. A short time afterward I wrote to Mr. Stafford asking if he had given the matter any further consideration, and if he would come over and see my improvements, and he wrote me a letter as follows:

"2073 E. ELKHART ST.,
"PHILADELPHIA, PENNA.,
"*Oct. 20th, 1900.*

"FRIEND JOHN:

"Your letter received. I think the price Mr. H. Pettit asks for securing us the patents on the two drawings, he returned to you is too much. I don't quite understand his remarks about getting a patent, and not be allowed to sell the talking machine on acc't. of some other patent.

"This probably explains why he was unable to interest his client E. Johnson that he mentioned.

"I will be over to see the machine next week and discuss the matters more fully.

"Sincerely yours,
ROB."

Mrs. Browning identifies the signatures of Browning, Munday, and Stafford on Browning's Exhibit No. 7. She says she was present when both were affixed and Munday signed a day or so earlier than Stafford. She states that she was with Browning when he took this sketch to

Pettit; that it was left there two weeks to be shown, she believes, to his client, "a Mr. Johnson, of Camden, the talking machine man." When cross-examined about the second sketch that is said to have been taken to Pettit she falls at once upon uncertain ground. She repeatedly assures the examiner that if she should be shown the sketch she would give him the information he asks; but, relying on her memory, she states she is "under the impression" that Stafford did not sign it. She does not recall whether it was dated or to what part of a talking-machine it referred. I have not been impressed with the accuracy of her memory when led away from the expected path of her story. Her testimony is extremely meager in the matter of describing structures in her own language.

Stafford corroborates Browning's testimony quite fully as to the sketch. (Browning's Exhibit No. 7.) He says he was at Pettit's office with Browning; that he first "had" the sketch there. (Q. 8, p. 249.) When asked to explain how he came to be invited to go to Pettit's office he says: "If I remember correctly, John wished to know if I could raise some money for him, or advance the money, to put the machine on the market;" and he guesses Browning asked him to go to find out directly how much it would cost to file an application. He shows a disposition to spar with counsel on cross-examination, but finally states that he has seen Browning's Exhibit No. 7 half a dozen times or more since October 25, 1900.

It does not appear from Stafford's deposition that he understood Browning's Exhibit No. 7 or that he read over or had read to him the description it bears of the structure it shows, either before or after he signed it. The last line of the description contains the only reference to the doors, and it finishes in a curious rise over the word "Inventor," suggesting that it may have been added after that word was written. It would have been possible to add the doors to the sketch and this final line of descriptive matter, and I do not find the testimony of either Mrs. Browning or Stafford sufficiently detailed and explicit to make me believe that they would have detected the difference after a lapse of eighteen years.

Browning's Exhibit No. 7, although supposed to represent Exhibit No. 3 with the megaphone Exhibit No. 6 in it, differs therefrom in the way the side walls are mounted, in adding the sound-deflectors 12 in the megaphone not found in Exhibit No. 6, and in showing a gooseneck connection to the sound-box and not the form of connection found in Exhibit No. 3. Stafford testifies to having scratched his name on Browning's Exhibit No. 6 on October 25, 1900, the day he signed the sketch, (Browning's Exhibit No. 7,) but does not remember where he was when he did it. He says he saw Exhibit No. 6 used in Exhibit No. 3. Munday, who witnessed this sketch, was too ill to be called and died before the testimony was completed. Pettit died long before the beginning of taking of testimony. Johnson was not called to answer the charge of indirect disclosure to him through Pettit or any of the charges of direct disclosure made by Browning because of severe illness established by the testimony of his physician, Faries. Under the circumstances I cannot conclude that Browning has succeeded in proving disclosure to Johnson through Pettit; nor do I believe it was incumbent upon Johnson to produce the records of Pettit's office. That was Browning's privilege if they were desired and useful.

Browning testifies of his next work, after making Browning's Exhibit No. 6 and the visit to Pettit's office, as follows:

"I then started to make a machine having all of the efficiency of my other machine but of reduced size. In this machine I tried to increase the efficiency as well as decrease the size, making a more economical structure. This machine I completed and demonstrated on March 15, 1901. I made a sketch of this machine showing it in twelve elevations, and various modifications. This machine I demonstrated to my wife and had her sign the sketch, which she did, and dated it 3/15/01. This sketch shows a cabinet provided with sound amplifying means or doors on either side of the cabinet to modify the sound at will. This sketch I now produce. (Q. 37.)"

The device here mentioned is introduced in evidence as Browning's Exhibit No. 10 and the sketch thereof as Browning's Exhibit No. 9.

Mrs. Browning testifies that Browning had his Exhibit No. 10 in 1901, and she states that his signature and hers, which appear on the sketch, (Browning's Exhibit No. 9,) were placed thereon on March 15, 1901.

Matthew G. Coombs, the brother-in-law, testifies from memory that Browning had Browning's Exhibit No. 10 in 1902 and it was then in a condition to play.

The amplifier of that device includes a part of the cabinet-walls.

Browning testifies as follows of his next alleged production:

"After I completed this machine in March, 1901, as shown in Exhibit No. 10, I commenced to make another arrangement of sounding board which consisted of a plurality of sounding boards spaced apart forming a plurality of stratas, or diverging sound passages. On both sides of these diverging partitions. I completed this device and when completed, comprised four rectangular flat sounding boards and eight diverging walls forming nine chambers. This I completed and arranged in the Exhibit No. 10, which I now do by removing the loose sounding boards from the exhibit and placing this device in this machine. After I did this I made sketch of this device as now assembled in Exhibit No. 10, and operated it. I did this as indicated by the writing and signatures on the back of this sketch which I now produce, which writing as follows:

"'The machine as illustrated in Figure 4 completed and demonstrated December 7th, 1901. J. B. Browning, in the presence of S. M. Browning.'"

Browning's Exhibits Nos. 11 and 12 are introduced in evidence as the sketch and device to which his last-quoted answer refers. Browning further testifies that he operated the device, (Exhibit No. 12,) arranged as shown in Fig. 4 of the sketch, (Exhibit No. 11,) for Stafford and that the latter signed his name and the date "12/20/1901" on the top sounding-board of Exhibit No. 12, where it is now found.

Stafford testifies that he wrote his name and the date "12/22/1901" on Browning's Exhibit No. 12 and that that device was demonstrated to him in Exhibit No. 10 before Christmas of 1901.

Mrs. Browning testifies that she saw Stafford write his name on Exhibit No. 12; that that exhibit was made before December, 1901, and before the sketch, (Exhibit No. 11,) on which she identifies her name and that of Browning as written by them.

An interesting comparison may be made of Browning's Exhibit No. 12 with the amplifier structure disclosed by a patent to English, No. 1,067,905, on which application was filed June 29, 1907, and which was granted July 22, 1913.

Very similar testimony to that given with reference to Browning's Exhibits Nos. 11 and 12 is also given with reference to the making of Browning's Exhibit No. 14 megaphone-cabinet and his Exhibit No. 13, which is a sketch thereof signed and dated by Browning and Mrs. Browning, these dates being in June, 1902. Browning testifies that he made these Browning Exhibits Nos. 13 and 14 while working for the Victor Talking Machine Company and that prior to this time (1902) he had been driving a wagon for the Adams Express Company.

Browning testifies that he next built and tested the device in evidence, marked "Browning's Exhibit No. 15." As to this he is corroborated by Mrs. Browning and his brother-in-law, Coombs. This device contains only one door in front of the amplifier and is admittedly not within the issue.

Browning testifies that from 1901 to 1903 he was also working on his double-gooseneck invention, for which he says he borrowed money in the fall of 1903 to file an application. This device was assigned to the Victor Talking Machine Company and became Patent No. 1,022,180 April 2, 1912.

Browning testifies that he next built and operated his Exhibit No. 16 as early as May 8, 1904. A sketch of this device, (Browning's Exhibit No. 17,) signed by him and signed and dated by Mrs. Browning, is also in evidence. Neither Stafford nor Mrs. Bennett testifies to having seen this machine prior to 1906, when it is said to have been sold to Mrs. Bennett. Although Browning testifies positively that he made this device prior to the date (May 8, 1904,) of the sketch, (Browning's Exhibit No. 17,) Mrs. Browning testifies (X-Qs. 226 and 227, p. 345) that Browning was working on it in 1905 and that it seems to her that he began to cut it in the latter part of 1905. She gives this testimony notwithstanding that on her direct examination she identified Browning's Exhibit No. 17 as made by her husband May 8, 1904, and stated that she signed it. (Q. 88, p. 324.)

It was in September, 1905, that Johnson reduced the invention to practice with the Sheip cabinet, and it is at least possible that Browning, then an employee of the Victor Company, had gotten wind of what was going on, and that Mrs. Browning may be right in stating that Browning began the construction of his Exhibit No. 16 machine "in the latter part of 1905." A large amount of testimony has been adduced to establish the sale of this Browning Exhibit No. 16 device to Mrs. Bennett on January 27, 1906, and a receipt for that sale is produced and identified by Browning and Mrs. Bennett. Assuming that the machine was then sold, the sale occurred after Johnson had completed the invention. Moreover, it is quite immaterial, for the reason that Browning's Exhibit No. 16, although disclosing the remaining elements, does not conform to the issue in the particular that the *cabinet* (inclosing the major portion of the amplifier) *shall be provided with an opening of substantially the same size as the delivery end of the amplifier*. On behalf of Browning it is urged that "in Browning's Exhibits 16 and 17 the walls of the lower chamber 9, in which the horn 15 is located, themselves, in connection with the horn constitute an amplifier whose delivery end has applied to it the means to vary the quality (?) of the reproduction at will on either side of the cabinet."

This I can only regard as an unsuccessful attempt to make the exhibits seem to fit the language of the count.

Browning testifies (Q. 123, p. 56) that prior to October 6, 1905, he had an interview with Mr. Middleton, secretary of the Victor Talking Machine Company, and a Mr. Kennedy, now deceased, but then one of its patent attorneys, and agreed to submit to them for consideration a number of sketches or drawings of different inventions, as recounted in the testimony of interference No. 33,738, in which the drawings in question, or most of them, were introduced as Exhibit No. 5, Browning's drawings submitted to the Victor Talking Machine Company October 6, 1905, to No-

vember 27, 1905. Of the drawings of that exhibit sheets 13 and 24 and a blue-print of a sheet numbered 22 are produced and identified by Browning and introduced in evidence in this case as Exhibit No. 20. Attached to sheet 13 Browning testifies of a sheet of memoranda (now missing) partly in the handwriting of Kennedy and partly in the handwriting of Mr. Bennett, who, Browning states, had charge of the patent department of the Victor Talking Machine Company at that time. These drawings, Browning testifies, were shown to both Johnson and Kennedy and that both of them were on the stand in interference No. 33,738 and neither one denied that they had seen these sheets of drawings. I have examined the testimony taken in interference No. 33,738 and fail to find that any drawings were shown to Kennedy or that he was asked about any and that the only testimony then given by Johnson with reference to drawings shown him on the stand was in answer to the following question.

"X-Q. 19. Can you say whether or not the sketches which I now show you were among the sketches which Mr. Browning submitted?

A. I never saw them before, as I recall.

Mr. Hunter. I will ask the notary to mark this paper for identification 'Browning Sketch No. 1.'"

The blue-print, which is sheet 3 of Browning's Exhibit No. 20, bears the inscription "Browning sketch" and is entitled in interference No. 33,738.

Bennett, of the Victor Talking Machine Company, Browning says, returned these drawings of Browning's Exhibit No. 20 to him prior to November 27, 1905, as appears from a statement in the handwriting of Matthew Coombs, Jr., on the back of each sheet. A letter, dated November 22, 1905, from Middleton to Browning, and another, slightly earlier, are produced in evidence as Browning's Exhibit No. 21, Victor Letters. The letter of November 22, 1905, told Browning that the "inventions" he had submitted had been taken up with the board of directors, who have gone over them carefully, and they are unable to see anything among the set which would be of any value to them whatever; that they had had the prior art looked up and found in a great many cases the inventions were antedated and rendered of no value.

Browning produces and identifies a red tape and card addressed to him as used upon the package of drawings when handed him by Bennett. Browning's testimony as to the return of these drawings is corroborated by Coombs, who identifies his handwriting on the sheets of Exhibit No. 20, and says he saw these sheets before they were sent to the Victor Talking Machine Company, as well as after their return, when he undid the package and dated them.

Bennett, who is no longer an employee of the Victor Talking Machine Company, testifying for Johnson, (Q. 14, p. 614, Johnson's rec.,) says that to the best of his knowledge and belief he never saw the three sheets of Browning's Exhibit No. 20 until the day before his testimony was being given. He says that he recalls that the drawings that be returned to Browning in connection with the letter of November 22, 1905, (Browning's Exhibit No. 22, "consisted of a number of small scraps of paper and pieces of yellow paper torn off and with irregular lines, some of which were quite unintelligible, so much so, in fact, that in a great number of instances, they represented 'chicken scratches.'"

He testifies that he does not recall any talk or conference with Browning over these drawings, and he states positively that Browning did not point out or state in connection with the drawings referred to in the letter of November 22, 1905, that he was the inventor of "* * * a talking machine, the sound reproducing mechanism, amplifying mechanism, and conveyor between the reproducing mechanism and amplifier, substantially and entirely inclosed within a cabinet or casing, and that the casing was provided with an opening adjacent the mouth of the amplifier, said opening being provided with a pair of doors to modify and deflect the sound issuing from the amplifier," and that if he had it would have made an impression on him because the Victor Company was working on a cabinet of the type described.

Bennett testifies that Browning never after November 22, 1905, suggested, advised, or told him that he (Browning) was the inventor of the Victrola. When shown the slip alleged to contain his handwriting and said to have been pinned to sheet 13 of Browning's Exhibit No. 20 when returned to Browning, Bennett states that it recalls nothing to his memory concerning any examination by him of this sheet. He does not recall returning the drawings to Browning, but states that the writing on the tag appears to be his, as also that on the slip alleged to have been pinned to sheet 13 of Browning's Exhibit No. 20, and he identifies Kennedy's writing on another part of this slip. He states that he does not connect the slip with sheet 13 of Exhibit No. 20 and does not know how they came to be attached. He states that he does recall taking Browning and some sketches of his to Mr. Kennedy in 1905 and that at other times Browning submitted sketches during his connection with the patent department.

Middleton, who is a director of the Victor Talking Machine Company and who was secretary to it from its inception in 1901 to 1912 or 1913, gives very similar testimony to that of Bennett. He identifies the letter dated November 22, 1905, forming part of Browning's Exhibit No. 21, as one dictated and signed by him, but states that he has no recollection of what the drawings therein referred to contained, nor anything of them except that they were made on buff-colored wrapping-paper with torn uneven edges. When shown the sheets of Exhibit No. 20 and several others, he states that he is of the opinion that he had not seen them until the week prior to his deposition, when they were shown him by Johnson's attorney. He denies that Browning disclosed the invention in issue to him or that he had knowledge that Browning claimed to be the inventor of a cabineted talking-machine embodying it at the time the drawings referred to in the letter of November 22, 1905, were considered by the Victor Company, and states that had Browning made such a representation to him by sketches or otherwise it would have been impressed upon his mind and also taken up carefully by his organization, for the reason that they were then about ready to put the Victrola on the market. He states that he really acted in the capacity of a clerk to the board of directors of the Victor Company when patent matters were submitted for consideration; that he was acting in that capacity when he wrote the letter of November 22, 1905, and that legal matters were not handled in his department. In answer to X-Q. 49 (p. 654, Johnson's rec.) he testifies:

"I have no recollection of having any interview with Mr. Browning in reference to any patent whatsoever during my lifetime. There may have been correspondence going through the office with my signature on as secretary. But I don't recall any now except the letter referred to in my previous testimony."

He states that he looked up the minutes of the board and could find no reference to the submission of drawings by Browning, as referred to in the letter of November 22, 1905.

Haddon, who is vice-president of the Victor Talking Machine Company and was one of its directors in 1905, testifies to practically the same effect as do Bennett and Middleton. He states that he never saw the seven sheets of drawing, of which three are a part of Browning's Exhibit No. 20, until a few days before his testimony is given, (Q. 4, p. 668; X-Q. 66, p. 683, Johnson's rec.,) and states that his recollection is that the drawings referred to in the letter of November 22, 1905, "were of an indiscriminate character and were drawn or sketched on very irregular shaped pieces of wrapping paper, manila colored."

He says:

"They related so far as I recall to what were supposed to be alleged improvements on the motor product of the Victor Company generally but were unintelligible in themselves to me."

He says he was told they represented attempts at various motor improvements.[1]

Haddon denies that Browning represented to him or to other officials of the Victor Talking Machine Company, when the drawings referred to in the letter of November 22, 1905, were submitted, that he was the inventor of the subject-matter here in issue. He does not recall the names of the members of the board of directors who went over the drawings referred to in the letter of November 22, 1905, or that he was present or that any member of the board ever discussed the drawings with him.

Johnson, as before stated, did not take the stand on account of alleged illness. His physician, Faries, testifies as follows:

"Q. 7. In your last answer you referred to 'his old trouble.' Please state what you mean by that?

"A. Mr. Johnson suffered with a type of melancholia.

"Q. 8. Will you briefly state how this type of melancholia affects him mentally?

"A. Insomnia, continual fretting, impossible to concentrate his mind on any one subject or to recall clearly past happenings.

"Q. 9. As his physician, would you give your consent to having Mr. Johnson attempt to appear in this proceeding and testify in his own behalf?

"A. I would not.

"Q. 10. Will you please state in general what are your instructions and orders to Mr. Johnson as to what he shall do and as to what interest he shall take in business matters?

"A. All business to be given up entirely. Nothing of a business nature to be brought to his attention. To be kept in the open air, amused, exercise, even papers where the news has been particularly depressing kept from him and that no business matters be brought to his attention.

"Q. 11. When did you first give instruction such as you have outlined in your last answer?

"A. In the early part of November, prior to the 15th of November, such instructions were given in this last recurrence of his disease.

"Q. 12. And when you gave him those instructions did you know that these proceedings of taking testimony was pending?

[1] Browning testifies that he was working on a talking-machine motor invention at least a part of his time from August, 1901, to August, 1902. (X-Q. 258, p. 138, Browning's rec.) He testified in interference No. 40,180 that he submitted a motor invention to the attorney, Kennedy, of the Victor Company, some time in June, 1906. Kennedy is dead.

"A. I did not.

"Q. 13. And did you know at that time that you might be expected to give testimony in this proceeding?

"A. I did not.

"X-Q. 49. From September, when he returned from Atlantic City, until the first of January, 1918, how often did you actually attend Mr. Johnson?

"A. From the time of his return early in September there was no occasion to attend Mr. Johnson until I was called in to see him in the first part of November for a cold and some disturbance to his digestive tract.

"X-Q. 50. And how often from your first visit in November, 1917, have you attended Mr. Johnson?

A. During most of that period daily—every day.

"X-Q. 58. What activities, if any, has he engaged in from January up to date?

"A. Walking, automobiling, three days spent at Atlantic City, at which place he was sent by me, returning earlier than I wanted him to do; this caused really, though, by his mental condition.

"X-Q. 59. Has he played any golf during this time, if you know?

"A. No."

MacEwan, Johnson's brother-in-law, testified on redirect examination as follows:

"R. D. Q. 978. You have been asked, on your cross-examination, whether you know Mr. E. R. Johnson very well and when you saw him last previous to January 8, 1918. You may please state what was Mr. Johnson's condition, physically, when you saw him on January 6, 1918, as you have testified.

"A. Mr. Johnson was then, and is now, a very sick man.

"R. D. Q. 979. You may state, if you know, for how long Mr. Johnson has been ill.

"A. This last spell that he has has been since the latter part of September or the fore part of October, 1917. It is in the nature of a very serious nervous breakdown. He doesn't sleep and he doesn't talk and he can't read and he seems to be in a terrible condition generally. He doesn't want to see anybody at all. This spell that he has now just followed a previous spell that he had during the summer of almost the same kind.

"R. D. Q. 980. Will you please state how long it has been since Mr. Johnson has been at the office of the Victor Talking Machine Company to attend to business?

"A. I couldn't say how many times he was here in the time between the two spells in September; I don't think it was more than two or three times, and previous to that he had not been here for a long time, and since that time he hasn't been around.

"R. D. Q. 981. Will you please state whether or not he is under the doctor's care and instructions?

"A. Yes, he is under the doctor's care—constant care."

The taking of Johnson's proofs closed April 17, 1918; Browning's rebuttal proofs closed May 31, 1918. Thereafter, on September 12, 1918, Johnson made an affidavit, which was presented at final hearing before the Examiner of Interferences and which sets forth the state of his health as the reason for his not testifying and affirms that he was the original inventor of the subject-matter in this interference. This affidavit was, of course, not admitted. Browning contends that it shows that Johnson was able to testify had he not been afraid of cross-examination. I am not persuaded that this is the case, especially as it was made five months after Johnson's proofs closed, and he may have somewhat improved in health by that time; but I do regard the attempt to present evidence in this manner as meriting severe censure.

English was too ill to be called and died before the taking of testimony was completed.

I have detailed at considerable length the testimony submitted by both parties with reference to Browning's Exhibit No. 20 and its alleged use by Browning in disclosing the invention to the officials of the Victor Talking Machine Company because this claimed disclosure and the one alleged through Pettit in 1900 by means of Browning's Exhibit No. 7 comprise the only specific attacks made upon Johnson's originality up to the taking of Browning's rebuttal proofs. Even if the alleged disclosures by Browning's Exhibit No. 20 in October or November, 1905, were fully established, however, this alone would not defeat Johnson, for, as has already been found, he had previously reduced the invention to practice by means of the Sheip cabinet (Johnson's Exhibit No. 36) as early as September, 1905.

Before turning to Browning's rebuttal I shall briefly recall the remaining leading facts of his *prima facie* case.

The letter of November 22, 1905, requested that a sample of a composition for record material supposed to have been invented by Browning should be submitted to the Victor Company, together with information as to how to mix it, and Browning testifies that he complied with this request a month or so later; also that along about this time he had taken up the study of pattern-making, was working on his motor invention, and getting ready for testimony for the Victor Talking Machine Company in interference No. 25,003, involving the Browning application, No. 186,197, filed October 22, 1903, which he had assigned to the Victor Talking Machine Co. for about two hundred dollars. He claims to have lacked funds at this time, and hence to have sold his carrying-case machine (Browning's Exhibit No. 16) to Mrs. Bennett, as has been previously mentioned. About this time he claims to have begun to teach himself how to make Patent Office drawings, as he did not have enough money to have his application prepared. In the summer of 1906 he made patterns, core-boxes, mold-boxes (Browning's Exhibits Nos. 16, 17, and 19) in interference No. 33,738. In January, 1907, he filed an application for another invention on a tone-arm construction, and in February, 1907, he says he completed another modification of his invention. (Browning's Exhibit No. 26.)

On November 2, 1906, Browning testifies that the first sample Victrola went through the shipping department of the Victor Company. He states:

"After I received these samples in the early part of November, 1906, I then realized that the Victor Company did not intend to do anything with any of the sketches which showed this invention which I showed them about a year previous, between October and November, 1905, and if I ever would get any assistance I would have to get it outside of the Victor Talking Machine Company or any of my acquaintances, all of whom now I thought I had exhausted after my many appeals. And I determined then to secure another position as I felt that I had been misled and misinformed by the various officials of the Victor Talking Machine Company and their entire board of directors. I next commenced to inquire around to see if I could possibly get another position, and to bring my inventions to a marketable product, and promptly after the Christmas rush I started to advertise for another position. This position I did not secure until June, 1907, when I secured a position in Kansas City, Mo., with the J. W. Jenkins Music Co., where I went in July, 1907."

He states that by October 21, 1907, he had made and delivered a commercial machine, of which Browning's Exhibit No. 27—"Browning's cabinet top portion"—is an example.

There is no dispute as to the construction of this Browning Exhibit No. 27 device, and I pass the details of the proof concerning it without further comment than to remark that it is like the structure disclosed in Browning's application, which was prepared in November, 1907, and filed January 18, 1908, and also to state that on behalf of Johnson it has been urged that this exhibit device—a mere top with an inclosed horn for a phonograph—is all Browning invented. This Browning Exhibit No. 27 device is certainly a departure in type from the various models and sketches which are said to have preceded it and which show one form or another of unitary cabinet with separate chambers for reproducer and horn.

Browning prepared his own application disclosing and claiming his Exhibit No. 27 construction, and filed it January 18, 1908. On page 1 of his specification he described the device as "a combined cabinet cover to fit on or over the cabinet of various sound recording or reproducing machines now in use."

There is considerable contention as to when he first presented a claim in this application at all commensurate with the invention here in issue. Counsel for Browning has pointed out original claim 19 as being broader than the present issue. In many respects it is quite near to it; but in the introductory clause—"a cabinet adapted to be secured to" a sound recording or reproducing machine—the distinguishing form of Browning's Cabinet Exhibit No. 27 is clearly indicated.

Browning testifies that he submitted his application papers to the Victor Talking Machine Company in 1910. This, however, was subsequent to the date of Johnson's patent, and I do not find that at that time Browning was presenting claims which indicated an intention to cover the Victrola.

Browning took extensive testimony during the time assigned him for rebuttal proofs. A very large amount of this testimony was not properly rebuttal, but of a character which should have been introduced as a part of Browning's *prima facie* case. On behalf of Browning it has been urged that the object of his rebuttal proofs, which allege a whole series of additional disclosures to Johnson, was to show that Johnson was not an original inventor. It is said that when Browning took his *prima facie* proofs and charged disclosure to Johnson through Pettit in 1900 by the sketch (Browning's Exhibit No. 7) and through the board of directors of the Victor Company prior to November 22, 1905, by means of the drawings (Browning's Exhibit No. 20) he (Browning) had no reason to suppose that any effort would be made to refute these charges, and when such a fact developed it was perfectly proper for Browning to introduce further proofs showing that Johnson had derived the invention from him.

I am not greatly impressed with this contention if from it the inference is expected to be drawn that as a matter of strategy Browning held back a part of his case until he could fully survey the position to be taken by his opponent. As a matter of fairness, the whole attack upon Johnson's originality, so far as there contemplated, should have been made during Browning's *prima facie* case. As a matter of fact, I believe that this was done, and as evidence of it call attention to the fact that Browning and his wife assert that the sketch Browning's Exhibit No. 50, which is the central piece of record evidence about which the further alleged disclosures turn, was discovered by them in the bottom of a wardrobe during the taking of Middleton's testimony, while Browning was searching for further letters from the Victor Talking Machine Company, which he still believes he has in the house, but has never found. (X-Q. 277, p. 462, Browning's rec.)

Browning's preliminary statement included the following paragraph:

"I first disclosed the invention to others on the third day of May, 1897, and as early as October 6, 1905, I disclosed the said invention to the officers and attorneys of the Victor Talking Machine Company, giving them drawings and descriptions of the same."

It is noteworthy that in this statement there is no allegation of a disclosure directly to Johnson, and I do not find that such a charge was made during Browning's *prima facie* proofs. Those proofs charged disclosure to Pettit, who is dead; to Kennedy, who is dead; to Middleton, who denies it, and to Mr. Bennett, who denies it. The reader of Browning's rebuttal record is therefore somewhat unprepared to meet therein a vivid portrayal of an entirely independent set of disclosures at no less than seven separate conferences said to have occurred at an entirely different period of time running from about December 22, 1903, to prior to April 24, 1904. Browning now claims to have disclosed the subject-matter in issue to Johnson on three occasions, to Bennett on three occasions, and to Johnson, Dennison, and Middleton at least once, and in three of these instances to have shown his newly-discovered sketch, (Browning's Exhibit No. 50.) This testimony, coming, as it does, after Johnson's case had closed and after it had been shown by the testimony of the physician, Faries, that Johnson was unable to take the stand and after it had also been shown that Johnson had actually built the Medara, Stevens, and Sheip cabinets and reduced the invention to practice, as I have found, at least as early as September, 1905, and prior to Browning's charged disclosures in November, 1905, by means of the drawings of his Exhibit No. 20, leads the reader to wonder whether Browning had forgotten all about these early 1904 happenings when he made his preliminary statement and took his *prima facie* proofs or whether he came forward with this additional story in a desperate attempt to win a case of great value, which he stood a chance to lose. The Examiners-in-Chief took the latter view, and I have found nothing in Browning's proofs to satisfy me that they were in error. Certainly, if these numerous disclosures occurred, Browning would not have forgotten them. Yet he himself does not explain why he did not testify of them in his *prima facie* case or refer to them in his preliminary statement. The argument has been made that the rules do not require that allegations of lack of originality shall be made in preliminary statements, and hence no inference unfavorable to Browning should be drawn from his failure to allege his earliest date of disclosure to Johnson. I am not greatly impressed with this argument, especially as Browning undertook in his preliminary statement to make allegations on this subject.

Browning's charges of disclosure made in his rebuttal proofs not being proper rebuttal, I do not see that it was incumbent upon Johnson to undertake the presentation of surrebuttal to refute them, and especially as Bennett, Middleton, and Haddon had denied generally disclosures at any time of this issue to them by Browning. If it was desired to attack their credibility, Browning's rebuttal should have been limited to facts referred to in the testimony-in-chief.

Another feature of Browning's rebuttal testimony is an attempt to establish that he had claimed to be the inventor of the Victrola structure after it came upon the market. He does not claim to have protested to the Victrola officials, but continued in the employ of the Victor Company for fully eight months after the first Victrola went through his hands to the market. This he seeks to explain on the score that he was poor and had a number of relatives working for the Victor Company. The facts that he did not ever protest to the Victor officials; that he did not then promptly file an application; that the first and only commercial machine, (Browning's Exhibit No. 27,) which he constructed later, even though it embodies the issue, was quite different in design from the Victrola and the previous structures Browning claims to have produced, are more persuasive to me than the testimony of Browning and Stafford in regard to Browning's having called Stafford's attention to the Victor product by the letter of February 26, 1907, (Browning's Exhibit No. 51,) or Shuster's testimony that in the spring of 1907 Browning had represented to him that he (Browning) was the inventor of the Victrola and that the Victor Company had appropriated it.

Browning called in rebuttal one William W. Morton, a machinist, in an attempt to obtain corroboration of Browning's contention of disclosure to him of the drawings of Exhibit No. 20. Morton should have been called during the *prima facie* case, if at all, for this purpose. His testimony is not convincing, especially his attempts at identification of the drawings. He fixes the date of his interview with Browning as late in the fall of 1905, whereas it was developed that in an earlier interference (No. 33,738) Browning had testified that it occurred in 1903.

But perhaps the most significant circumstance in this case is the manner in which Browning prosecuted his application, which, as has been said, he prepared and filed himself.

On May 2, 1911, claims in Browning's application were rejected on Johnson's patent in connection with other references. On August 29, 1911, the count of what was to become interference No. 33,738 (*Johnson and English* v. *Browning*) was suggested to Browning. This interference was decided in favor of Browning on April 4, 1913, following a concession of priority.

On March 21, 1913, a new specification and claims were presented in the Browning application. Johnson's patent claim corresponding to the count was not included; but all the claims presented carried limitations either to a sound-conduit extending outside the cabinet or to an amplifier with adjustable side walls or to means for adjusting the area of the space surrounding the amplifier.

On May 2, 1914, claims 4 and 5 were rejected on a patent to Klenk and the Johnson patent in contest.

On April 15, 1915, new claims 12 to 30 were presented, none of which included as elements the doors of this issue. This amendment was accompanied by an affidavit by Browning averring that he had made the invention defined by the claims of the last two amendments and reduced to practice prior to July 19, 1906.

On April 28, 1915, an argument was filed stating that "it is not understood that the Johnson patent has any bearing upon the claims in question" and urging that the affidavit filed overcame the other references. Special features of several claims were pointed out as distinguishing from Johnson. The affidavit was said to have been intended to provoke interferences with Echard's Patent, No. 974,227, and the English Patent No. 1,022,582.

On April 30, 1915, Browning filed another affidavit, accompanied by two drawings, (marked A and B.) He therein averred that he made the invention disclosed in the first of these, A, prior to January 12, 1906, the filing date of the application on which Johnson's patent issued, but the structure of this drawing, A, resembling Browning's Exhibit No. 15, did not disclose the issue, as there was but one door in front of the amplifier. As to the structure of the other drawing, B, which seems to answer the issue, Browning merely swore that he completed that before February 15, 1907. While there is nothing conclusive about these averments, they are deemed significant in view of the marketing of the Victrola in November, 1906, with Browning's knowledge, and in view of the fact that the Johnson patent had long been in the record to his knowledge also. Still the Johnson claim was not presented by Browning, and he did not present it until after it had been suggested for interference by the Patent Office on June 3, 1915. The claim was made on June 18, 1915, and the interference was declared on September 28, 1915.

After the interference was declared it was dissolved by the Law Examiner in view of the facts appearing above, in accordance with the doctrine of *Rowntree* v. *Sloan*, (227 O. G., 744; 45 App. D. C., 207.) This decision was affirmed on appeal to the Examiners-in-Chief, who said of Browning:

"* * * It is clear that he never took any steps toward the bringing about of an interference with the patent until, as above stated, he accepted the suggestion of the Office and made his interfering claim."

Thereupon Browning appealed to the Commissioner and filed affidavits by himself and his wife, setting out that he had written a letter on September 6, 1911, here introduced in evidence as Browning's Exhibit No. 33, and reading as follows:

"546 HADDON AVE.,
"*Camden, N. J., Sept. 6, 1911.*

"*Messrs. Hunter & Hunter,*
"*724 Mutual Life Bldg.,*
"*Phila., Penn.*

"*Mr. E. H. Hunter.*

"DEAR SIR: In the matter of my application Serial Number 411,454, I have examined my records as you suggested, as to the earliest forms of my operative devices and find I have positive proof of reduction to practice prior to the filing date of Miller, Schroder, Johnson, Douglas, Halle and Klenk's French patent and other patents cited. In reference to Miller patent filed Dec. 6, 1904, and the Johnson patent, #946,442, filed Jan. 12, 1906, I find I am entitled to an interference with either of these patents and I want you to take the necessary steps to have an interference declared as soon as possible, especially the Johnson patent, as I have continuously claimed the same general subject matter. Just as soon as you have the necessary affidavits prepared I will stop over and execute them as I want to get the patent as soon as possible.

"Yours very truly,
"(Signed) JOHN B. BROWNING."

Also there was filed an affidavit by one J. Stuart Freeman to the effect that in November, 1913, he was employed by Browning's former attorney, Hunter, who was then ill, and that he had several interviews with Browning about his different applications, including the application No. 411,454 in this interference, and that at that time he saw the original letter of September 6, 1911, a copy of which was attached as Exhibit A.

In view of the foregoing affidavits the decision of the Examiners-in-Chief that the interference should be dissolved was reversed to give Browning an opportunity to explain, by regularly-taken proofs, his delay in bringing about the interference with Johnson. Browning, his wife, and Freeman have testified in this interference consistently with their aforesaid affidavits and have identified Browning's Exhibit No. 33 as the original letter.

Counsel for Johnson has pointed out how well calculated is the language of this exhibit to meet the doctrine of *Rowntree* v. *Sloan*, *supra*, and how opportunely this letter was discovered and presented shortly after the adverse decisions on the motion to dissolve. The Examiners-in-Chief thought this letter was probably a changeling for another letter Freeman had seen in the file. I hesitate to reach that conclusion, especially in view of Freeman's very positive testimony that he saw this exhibit late in 1913, as he states; but I view it with suspicion, and I do not think the fact of its existence then, if admitted, excuses Browning for not earlier provoking this interference. At the date this letter was written—September 6, 1911—Browning was still prosecuting his own application. The Johnson patent had been cited against claims in his application the preceding May. By a letter mailed directly to him on August 29, 1911, the claim which became the count of the *Johnson and English* v. *Browning* interference was suggested to Browning, and on September 6, 1911, the very date of the letter Browning's Exhibit No. 33, Browning himself filed an amendment, under date of September 5, 1911, presenting that claim in his case. Why, if he knew of his right to an interference on September 6, 1911, as his letter states, did he not then also file an amendment presenting Johnson's patent claim? As a matter of fact, Hunter was not given a power of attorney until October 28, 1911, and Browning's attempts to explain his delay in provoking the interference on the score of neglect by Hunter and the latter's illness cannot very well apply to a period prior to the time Hunter was given a power of attorney, even though Browning had previously consulted Hunter as early as June, 1911, as he testifies. It is apparent from Browning's answers to X-Qs. 375, 376 (p. 167, Browning's rec.) that he believed Hunter was his attorney when the letter of September 6, 1911, (Browning's Exhibit No. 33,) purports to have been written, and that letter is worded as though such were the case. Browning retained full control of his application until he assigned it on August 15, 1912, to the Keen-O-Phone Company, which reassigned it to him on August 6, 1914, (Browning's Exhibit No. 39,) and then, despite another rejection on Johnson's patent in May, 1914, nothing was done until April 28, 1915, when an amendment was filed seeking to distinguish from Johnson's patent. Browning seeks to ascribe this to Hunter's ill health; but Browning was not wholly unaware of what Hunter was doing, for he executed an affidavit in this very case at about that time seeking to overcome references, as previously explained.

I think that there is good ground for holding Browning estopped by his laches from obtaining a patent.

I am not satisfied that Browning's proofs measure up to the burden of proof that rests upon him. Johnson had established the earlier reduction to practice, at a time when Browning was not diligent. I do not think Browning's proofs establish such a case of poverty as to excuse his lack of diligence, especially as he was working on various other inventions and filed other applications after his alleged conception, but before his present application was filed. He was able, when he got ready, to prepare and file this application himself. Viewed as a straight priority case, Browning cannot prevail. Viewed as an originality case, he has not established his position with sufficient certainty to lead me to reverse the decision below.

The very lapse of time that has transpired since the events referred to are alleged to have occurred tends to make Browning's task more difficult. That he should have knowingly permitted his opponent to build up an immense business over a period of years; that he should have failed to have promptly insisted upon and persisted until he secured an interference with the Johnson patent after he learned of it; that the delay has been so great that many of the persons best able to testify as to the facts on both sides are incapacitated or dead, and, finally, that Browning should have undertaken, in rebuttal, virtually to build up a new case of originality combine to convince me that he should not receive the award of priority.

It is a case where actions speak louder than words.

The decision of the Examiners-in-Chief awarding priority to the senior party, Eldridge R. Johnson, is affirmed.

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PATENTS WERE ISSUED DURING THE MONTH OF JUNE, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbamonte, Antistene, Pocatello, Idaho. Valve. No. 1,381,049; June 7; v. 287; p. 139.
Abbott, Alfred S. (See Seanor, George L., assignor.)
Abbott, John, *et al.*, administrator. (See Preston, Albert F.)
Abogado, Luis G., Mexico, Mexico. Apparatus for heating liquids. No. 1,382,156; June 21; v. 287; p. 458.
Abogado, Luis G., Mexico, Mexico. Heating liquids. No. 1,382,157; June 21; v. 287; p. 458.
Abogado, Luis G., Mexico, Mexico. Apparatus for sterilizing liquids. No. 1,382,158; June 21; v. 287; p. 458.
Abogado, Luis G., Mexico, Mexico. Sterilizing liquids. No. 1,382,159; June 21; v. 287; p. 458.
Ackermann, William F. D., Kaylor, S. D. Motor. No. 1,382,591; June 21; v. 287; p. 542.
Ackley, Fred D., Seattle, Wash. Carbureter. No. 1,381,897; June 21; v. 287; p. 411.
Adams, George C., San Francisco, Calif. Oil-furnace for boilers. No. 1,382,402; June 21; v. 287; p. 505.
Adams, Harvey C., *et al.* (See Carson, Robert H., assignor.)
Adams, Otto O., Los Angeles, Calif. Direction-indicator for motor-driven vehicles. No. 1,383,181; June 28; v. 287; p. 707.
Adamson, Allan A., Brooklyn, N. Y., and W. F. Grupe, North Bergen, N. J. Making boxes. No. 1,381,007; June 14; v. 287; p. 201.
Adix, Dr. H. V. (See Peszneeker, Stephen P., assignor.)
Adrian, Frank L., Mattoon, Ill. Engine-piston. No. 1,382,876; June 28; v. 287; p. 649.
Adsit, William H assignor of one-half to D. W. Tomlinson, Jr., Batavia, N. Y. Change-speed-gear operating means for motor-vehicles. No. 1,380,337; June 7; v. 287; p. 3.
Aeolian Company, The. (See Prettie, Richard J., assignor.)
Agutter, George, New York, N. Y. Racket. No. 1,381,050; June 7; v. 287; p. 140.
Ahlberg, Karl E., Los Angeles, Calif. Dual-speed transmission. No. 1,381,051; June 7; v. 287; p. 140.
Air-O-Mix Corporation, The. (See Meredith-Jones, Hubert, assignor.)
Akaki, Kanzaburo, Higashiku, Osaka, and M. Itoi, Yodobashicho, Tokyo, Japan. Apparatus for lifting and floating sunken vessels or the like. No. 1,383,051; June 28; v. 287; p. 683.
Akeley, Carl E., New York, N. Y. Composite reflector and making the same. No. 1,382,261; June 21; v. 287; p. 478.
Akimoff, Nicholas W., Wynnewood, assignor to Vibration Specialty Company, Philadelphia, Pa. Steering-column for automotive apparatus. No. 1,380,338; June 7; v. 287; p. 3.
Aktiebolaget Svenska Kullagerfabriken. (See Fjellman, Bengt W., assignor.)
Aktiengesellschaft Brown Boverie & Cie. (See Brown, Eric, assignor.)
Albertson & Company. (See Albertson, Frans O., assignor.)
Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Bushing-remover. No. 1,381,101; June 14; v. 287; p. 201.
Alexander, Clive M., Port Arthur, Tex., and G. H. Taber, Jr., assignors to Gulf Refining Company, Pittsburgh, Pa. Catalyzing oil and apparatus therefor. No. 1,381,098; June 14; v. 287; p. 201.
Alexander, George E. and R. W., Newport, N. H. Reinforced bow for rakes. No. 1,383,182; June 28; v. 287; p. 707.
Alexander, G. M. (See Price, Charles E., assignor.)
Alexander, Ralph W. (See Alexander, George E. and R. W.)
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Means for frequency transformations. No. 1,382,877; June 28; v. 287; p. 650.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Cooling dynamo-electric machines. No. 1,382,878; June 28; v. 287; p. 650.
Alker, Clarence H., New Orleans, La. Dumping-body. No. 1,381,099; June 14; v. 287; p. 201.
Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole cutting and stitching machine. No. 1,380,339; June 7; v. 287; p. 3.
Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth N. J. Buttonhole-cutting mechanism. No. 1,380,340; June 7; v. 287; p. 3.
Allen, Edward B., Alexandria, La. Loading apparatus. No. 1,381,780; June 14; v. 287; p. 328.
Allen, Roy M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching system and indicating device therefor. No. 1,382,262; June 21; v. 287; p. 478.
Allen, S. L., & Co. (See Mader, Joseph, assignor.)
Allen, S. L., & Co. Inc. (See Mader, Joseph, assignor.)
Alley, Stephen E., and A. Thomson, Shrewsbury, England. Combined crank-shaft and differential gear. No. 1,381,781; June 14; v. 287; p. 329.
Allingham, John, Los Angeles, Calif. Manufacture of zinc oxid direct from oxidized zinc ores. No. 1,380,514; June 7; v. 287; p. 36.
Allingham, John, Los Angeles, Calif. Manufacture of zinc oxid direct from oxidized zinc ores. No. 1,380,515; June 7; v. 287; p. 36.
Allison, Philip W. (See Sprague, F. D., and Allison.)
Allmand, John T., assignor to Fisher Body Corporation, Detroit, Mich. Window-well construction. No. 1,383,052; June 28; v. 287; p. 683.
Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,383,053; June 28; v. 287; p. 683.
Allsworth, Albert E., Peoria, Ill. Pencil. No. 1,382,047; June 21; v. 287; p. 438.
Altmayer, Marvin C., New York, N. Y. Tire-protector. No. 1,380,625; June 7; v. 287; p. 57.
Alvord, Clinton, Worcester, Mass. Color-printing mechanism. No. 1,383,253; June 28; v. 287; p. 271.
Ambrose, Manfred H., Springfield, Ohio. Wheel. No. 1,381,100; June 14; v. 287; p. 201.
Ameer, Abraham Y., *et al.* (See Avis, Sam, assignor.)
American Aero Company. (See Juelson, Edwin, assignor.)
American Brake Company. (See Redford, John E., assignor.)
American Bromine Company. (See Tobler, Henri, assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Chain Company. (See Conner, Edward A., assignor.)
American Chain Company. (See Reyburn, John R., assignor.)
American Cotton Oil Company, The. (See Cluff, Clarence B., assignor.)
American Electric Co. (See Burns, Peter C., assignor.)
American Gasaccumulator Company. (See Johansson, George K. V., assignor.)
American Laundry Machinery Co., The. (See Braley, Charles L., assignor.)
American Pasteurizer Company. (See Tait, Godfrey M. S., assignor.)
American Piano Company. (See Russell, Guy M., assignor.)
American Potash Corporation. (See Charlton, Harry W., assignor.)
American Road Machinery Company. (See Berry, Earl E., assignor.)
American Safety Razor Company. (See Kaufman, Joseph, assignor.)
American Sales Book Company. (See Bottle, Edward K., assignor.)
American Smelting and Refining Company. (See Hall, Arthur E., assignor.)
American Spike Company. (See Sessler, Marcel K., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Telephone and Telegraph Company. (See Demarest, C. S., and Shackleton, assignors.)
American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
American Telephone and Telegraph Company. (See Toomey, J. F., and Demarest, assignors.)
American Warp Drawing Machine Company. (See Lea, Charles, assignor.)
American Water Supply Company of New England. (See Bahlman, George J., assignor.)
American Whaley Engine Co. (See Whaley, William B. S., assignor.)
American Wiremold Company, The. (See Petersen, Anker, assignor.)
American Wood Rim Company, The. (See Snyder, O. K., and Kenrich, assignors.)
American Writer Paper Company. (See Taylor, George G., assignor.)
Ames, George P., Derry, N. H. Corn-popper. No. 1,382,592; June 21; v. 287; p. 542.
Amodeo, Joseph, Brooklyn, N. Y. Sash-operated circuit-closer. No. 1,381,956; June 21; v. 287; p. 422.
Amstutz, Amos A., Bluffton, Ohio. Posthole-digging machine. No. 1,381,052; June 7; v. 287; p. 140.
Anderson, Algoth N., Leal, N. D. Loader. No. 1,381,053; June 7; v. 287; p. 140.
Anderson, Charles E., Philadelphia, Pa. Map. No. 1,381,957; June 21; v. 287; p. 422.
Anderson, George A., Ensley, Ala. Saw-guard. No. 1,381,612; June 14; v. 287; p. 296.
Anderson, John H., Havana, N. D. Safety-pin. No. 1,383,054; June 28; v. 287; p. 684.
Anderson, John J., San Francisco, Calif. Trawling apparatus. No. 1,381,265; June 14; v. 287; p. 231.
Anderson, Robert J., El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz. Reduction of iron and lead ores. No. 1,381,689; June 14; v. 287; p. 311.
Anderson, William R. (See Johnson, A., and Anderson.)
Andersson, Wictor O. J., Malmö, Sweden. Calculating machine. No. 1,381,898; June 21; v. 287; p. 411.
Andreani, Findley E., Los Angeles, Calif. Bumper. No. 1,382,879; June 28; v. 287; p. 650.
Andreau, Roland L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making substantially anhydrous organic acids. No. 1,381,782; June 14; v. 287; p. 329.
Andrews, Charles W., Buffalo, assignor to Carrier Engineering Corporation, New York, N. Y. Flour-milling process. No. 1,381,266; June 14; v. 287; p. 232.
Andryslak, Wladyslaw S., South Bend, Ind. Vegetable-crusher. No. 1,382,449; June 21; v. 287; p. 515.
Angler, Edward H. (See Wheildon, W. M., and Angler.)
Angler, Edward H., Framingham, and W. M. Wheildon, Ashland, Mass.; said Wheildon assignor to said Angler. Wrapping-machine. No. 1,382,403; June 21; v. 287; p. 506.
Angsten-Kox Company. (See Walker, Joseph, assignor.)
Anspach, Frank M., and F. L. Myers, Toledo, Ohio. Dust-collector. No. 1,380,698; June 7; v. 287; p. 71.
Antoine, Lucien J., Council Bluffs, Iowa. Windshield-spotlight support. No. 1,381,267; June 14; v. 287; p. 232.
Antoni, Ernst J., Whitewright, Tex. Cotton-chopper. No. 1,383,055; June 28; v. 287; p. 684.
Apel, Frederick H. (See Pecorella, A., Patricolo, and Apel.)
Apco Manufacturing Company. (See Storrie, William, assignor.)
Arata, Bertha A., and T. L. Mattie, Los Angeles, Calif. Cushioned bedpan. No. 1,382,593; June 21; v. 287; p. 542.
Archer Manufacturing Company. (See Spear, Arthur.)
Arkell Safety Bag Company. (See Widmer, Howard G., assignor.)
Arkless, Victor B. (See Oelenschlager, J. W., and Arkless.)
Armstrong-Blum Mfg. Company. (See Blum, George J., assignor.)
Armstrong, Charles D., San Francisco, Calif. Carpet or the like mounting for stairways. No. 1,382,263; June 21; v. 287; p. 478.
Armstrong, Horace E., Salem, Oreg. Fuel-saver and air-circulator. No. 1,382,880; June 28; v. 287; p. 650.
Armstrong, Sir W. G., Whitworth and Company. (See Matthews, T. H., and Lee, assignors.)
Arnold, Edwin M., Tulsa, Okla. Combination-wrench. No. 1,381,889; June 14; v. 287; p. 349.
Aschauer, Charles J., Decatur, Ill. Concrete building structure. No. 1,383,183; June 28; v. 287; p. 708.
Ascheri, Antoine, Neuilly-sur-Seine, France. Wire-connecting device. No. 1,382,048; June 21; v. 287; p. 438.
Ash, Charles S., Buffalo, N. Y., assignor, by mesne assignments, to Wire Wheel Corporation of America. Paintball. No. 1,380,761; June 7; v. 287; p. 83.
Ash, Charles S., Hagerstown, Md. Quick-detachable-vehicle-wheel hub. No. 1,382,881; June 28; v. 287; p. 650.
Ash, Charles S., Hagerstown, Md. Apparatus for use in connection with applying paint. No. 1,382,882; June 28; v. 287; p. 651.
Ashbridge, Thomas G., Philadelphia, Pa. Kneeling-truck. 1,382,883; June 28; v. 287; p. 651.
Ashcraft, Homer E., Davenport, Iowa. Locking device. No. 1,381,855; June 14; v. 287; p. 342.
Ashlock, Henry H., San Diego, Calif. Railway-tie. No. 1,383,056; June 28; v. 287; p. 684.
Ashmore, Walter L., Macon, Ga. Joint for concrete pavements. No. 1,380,341; June 7; v. 287; p. 4.
Ashmun, Ernest E., assignor to Packard Motor Car Company, Detroit, Mich. Device for removing valves from internal-combustion engines. No. 1,383,057; June 28; v. 287; p. 684.
Aspinwall, Robert S., assignor to Lincoln Manufacturing Company, Detroit, Mich. Securing a nipple to a hollow shell and article produced thereby. No. 1,382,049; June 21; v. 287; p. 439.
Aston, Archer, Leeds, England, assignor to L. E. Waterman Company, New York, N. Y. Mechanically-operated advertising device. No. 1,381,856; June 14; v. 287; p. 343.
Atkin, Frank H., San Francisco, Calif. Hose-clamp. No. 1,383,058; June 28; v. 287; p. 684.
Atkins, E. C., & Company. (See Pribnow, John F., assignor.)
Atkins, Joseph B., South Bend, Ind. Automatic crossing-gate. No. 1,380,342; June 7; v. 287; p. 4.
Atkinson, J. M., *et al.*, trustees. (See Kerr, Augustus H., assignor.)
Atkinson, John D., Plain, Wash. School-desk. No. 1,382,404; June 21; v. 287; p. 506.
Atlantic Dyestuff Company. (See Burrage, A. C., Jr., and Meisel, assignors.)
Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding-machine. No. 1,381,899; June 21; v. 287; p. 411.
Augustine, Benjamin F., Buffalo, N. Y. Rotary gas-engine. No. 1,382,611; June 28; v. 287; p. 599.
Augustine, Benjamin F., Buffalo, N. Y. Rotary gas-engine. No. 1,382,612; June 28; v. 287; p. 599.
Austin, Albert L., Cleveland, Ohio. Collapsible container. No. 1,380,880; June 7; v. 287; p. 107.
Austin, Albert L., assignor to The Standard Tire Protector Company, Cleveland, Ohio. Tire. No. 1,381,094; June 7; v. 287; p. 148.
Austin, Arthur C., assignor of one-half to Magill-Weinsheimer Co., Chicago, Ill. Making printing-plates. No. 1,382,613; June 28; v. 287; p. 599.
Austin, Frederick C. (See Bentson, Hans J., assignor.)
Auto Specialties Manufacturing Co. (See White, Harry B., assignor.)
Automotive Parts Company. (See Schwitzer, Louis, assignor.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Autosales Corporation. (See Potts, Edwin B., assignor.)
Aveling, Christiaan W., Elgin, Ill. Hoisting and conveying machinery. No. 1,382,614; June 28; v. 287; p. 599.
Avery, Arthur D., Los Angeles, Calif. Galley device. No. 1,380,516; June 7; v. 287; p. 36.
Avis, Sam, Chicago, Ill., assignor of three-fourths to A. Y. Ameer, Chicago, Ill., and J. Yonan and J. N. Baboo, Gary, Ind. Grape-juice syrup and treating the same. No. 1,381,613; June 14; v. 287; p. 296.
Axtell, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Electrical system of power transmission and regenerative braking. No. 1,380,941; June 7; v. 287; p. 118.
Ayars, Charles H., Salem, N. J. Cooking-machine for canned goods. No. 1,380,626; June 7; v. 287; p. 57.
Babcock-Gallagher Company. (See Babcock, Henry A., assignor.)
Babcock, Henry A., Evanston, Ill., assignor to The Babcock-Gallagher Company, Columbus, Ohio. Motor-vehicle spring suspension. No. 1,381,157; June 14; v. 287; p. 212.
Babcock Printing Press Manufacturing Company, The. (See English, Fred S., assignor.)
Babenderede, Walter, assignor, by mesne assignments, to Harmony-Spring Cushion Co., Chicago, Ill. Spring-cushion construction. No. 1,382,594; June 21; v. 287; p. 542.
Baboo, Jeremiah N., *et al.* (See Avis, Sam, assignor.)
Badamo, Anthony. (See Dalling, John A., assignor.)
Baer & Wilde Company. (See Baer, Lawrence E., assignor.)
Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Buckle. No. 1,381,690; June 14; v. 287; p. 311.
Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Belt-buckle. No. 1,381,691; June 14; v. 287; p. 312.
Baesemann, Arnold H., Rib Falls, Wis. Lamp-operating mechanism. No. 1,382,710; June 28; v. 287; p. 618.
Bailey, George C., Woodcliff-on-Hudson, and A. E. Craver, Cliffside, N. J., assignors to The Barrett Company. Producing formaldehyde. No. 1,383,059; June 28; v. 287; p. 685.
Baird Corn Husker Co. (See Baird, William S., assignor.)
Baird, Robert E., Salt Lake City, Utah. Demountable hub attaching device. No. 1,382,160; June 21; v. 287; p. 459.
Baird, William S., Decatur, assignor to Baird Corn Husker Co., Champaign, Ill. Husking-machine. No. 1,382,264; June 21; v. 287; p. 478.
Baker, Franklin Company, The. (See Baker, F., Jr., and Cooper, assignors.)
Baker, Franklin, Jr., Philadelphia, Pa., and S. Cooper, New York, N. Y., assignors to The Franklin Baker Company, Philadelphia, Pa. Removing shells from cocoanuts. No. 1,380,859; June 7; v. 287; p. 103.

Baker, Linnaeus E., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Pump. No. 1,382,450; June 21; v. 287; p. 515.
Baker, Linnaeus E., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Constant-flow-measuring pump. No. 1,382,451; June 21; v. 287; p. 515.
Baker, Murray & Imbrie. (See Warden, William S., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Butler, John S., assignor.)
Baker, Newton D., Secretary of War, trustee. (See Oppenheimer, Edgar A., assignor.)
Baker, Walter J., Chicago, Ill. Automatic stop for phonographs. No. 1,382,405; June 21; v. 287; p. 506.
Bakovich, Joseph, Hermosa, Pa. Self-leveling apparatus. No. 1,382,711; June 28; v. 287; p. 618.
Baldwin, Henry S., Lynn, Mass., assignor to General Electric Company. Mobile Generator Outfit. No. 1,380,942; June 7; v. 287; p. 118.
Baldwin, Lawrence G., Eastland, Tex. Collar-button. No. 1,382,452; June 21; v. 287; p. 515.
Baldwin, William W., Deskins, Va. Thermal circuit-controller. No. 1,383,060; June 28; v. 287; p. 685.
Ballinger, Walter F., Philadelphia, Pa., and C. H. Shivers, Woodbury, N. J., assignors, by mesne assignments, to said Ballinger. Roof structure. (Reissue.) No. 15,133; June 28; v. 287; p. 725.
Balzer, Fritz, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Drier. No. 1,380,343; June 7; v. 287; p. 4.
Bamforth, Thomas H., North Vancouver, British Columbia, Canada. Toy. No. 1,383,061; June 28; v. 287; p. 685.
Bancel, Paul A., Nutley, assignor to Ingersoll-Rand Company, Jersey City, N. J. Method and apparatus for devaporizing and cooling. No. 1,380,460; June 7; v. 287; p. 26.
Banfield, William B., Winnipeg, Manitoba, Canada. Emergency-tire. No. 1,380,627; June 7; v. 287; p. 57.
Banks, Daniel B., deceased, Baltimore, Md.; G. T. W. Banks, executrix. Door. No. 1,381,958; June 21; v. 287; p. 422.
Banks, Garey T. W., executrix. (See Banks, Daniel B.)
Banks, George H., Memphis, Tenn. Convertible interest-bearing savings-check. No. 1,380,762; June 7; v. 287; p. 83.
Banks, George L., Huntington Park, Calif. Tractor-wheel. No. 1,382,815; June 28; v. 287; p. 638.
Bankston, James R. (See Reneau, Charles W., assignor.)
Banschbach, Edward A., Chicago, Ill. Multiple-tread wheel. No. 1,381,534; June 14; v. 287; p. 281.
Bar-Lock Typewriter Company, The. (See Etheridge, Herbert, assignor.)
Baracree, Arthur J., Chicago, Ill. Storage battery. No. 1,381,959; June 21; v. 287; p. 422.
Barbetta, Michele, Paterson, N. J. Air-compressing machine. No. 1,382,453; June 21; v. 287; p. 516.
Barber-Colman Company. (See Field, M. F., Lanning, Hathaway, and Blanchard, assignors.)
Barber-Colman Company. (See Mars, Charles M., assignor.)
Bardeloni, Cesare, Rome, Italy. Device for receiving radiotelegraphic and radiotelephonic signals. No. 1,381,692; June 14; v. 287; p. 312.
Bardi, Gino, Cleveland, Ohio. Signal device for automobiles. No. 1,381,268; June 14; v. 287; p. 232.
Barducci, Pilade, Naples, Italy. Drying plant. No. 1,380,054; June 7; v. 287; p. 140.
Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Dumping-truck. No. 1,380,881; June 7; v. 287; p. 107.
Barkley, John F., Wilkinsburg, Pa. Intake-feeder for suction-conveyers. No. 1,382,454; June 21; v. 287; p. 516.
Barlow, J. W., *et al.* (See Poole, John H., assignor.)
Barnard, Samuel G. (See Dotzer, H., and Barnard.)
Barnard, Samuel G., assignor of one-half to H. Dotzer, Seattle, Wash. Electric-circuit-testing device. No. 1,382,884; June 28; v. 287; p. 651.
Barner, Lawrence D., Fort Bliss, Tex. Foldable hacksaw. No. 1,380,628; June 7; v. 287; p. 57.
Barnes, William, assignor to Walden Worcester, Inc., Worcester, Mass. Socket-wrench. No. 1,381,900; June 21; v. 287; p. 411.
Barnett, Arthur R., Portland, Oreg. Knife. No. 1,380,629; June 7; v. 287; p. 57.
Barnhurst, Henry G., Allentown, Pa. assignor to Fuller Engineering Company. Burning pulverized fuel. No. 1,382,712; June 28; v. 287; p. 619.
Barr, Mark, Chelsea, and T. F. Maw, Cricklewood, England, assignors to Mergenthaler Linotype Company. Mechanism for composing and casting typographical matter. No. 1,380,763; June 7; v. 287; p. 84.
Barrett Company, The. (See Bailey, G. C., and Craver, assignors.)
Barrett Company, The. (See Perry, Ray P., assignor.)
Barry, Edward H., Newton, Mass., assignor to the Government of the United States. Bomber's training device. No. 1,381,158; June 14; v. 287; p. 212.
Barry, Herbert A. L., London, assignor to Silver Lock Stitch Sewing Machine Syndicate Limited, Bloomsbury, London, England. Lock-stitch sewing-machine. No. 1,380,630; June 7; v. 287; p. 58.
Barry, Louis J. (See Macfarlane, S. B., and Barry.)
Bartleson, Thomas L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making phosphorus oxychlorid. No. 1,381,783; June 14; v. 287; p. 329.
Bartoli, Pasquale, Brooklyn, N. Y. Accordion. No. 1,382,885; June 28; v. 287; p. 651.
Bartuzel, Jan, Youngstown, Ohio. Sled attachment for vehicles. No. 1,380,860; June 7; v. 287; p. 103.
Bascome, Clarence, Dayton, Ohio. Waist-line garment-support. No. 1,383,062; June 28; v. 287; p. 685.
Bash Oil and Refining Company. (See Hoge, Daniel W., assignor.)
Bashara, Samuel F., Houston, Tex. Well-screen cleaner. No. 1,380,517; June 7; v. 287; p. 36.
Bass, Edith M., Concord Junction, Mass. Darning device. No. 1,382,455; June 21; v. 287; p. 516.
Bassett, Preston R., Brooklyn, N. Y. Pocket-light. No. 1,380,344; June 7; v. 287; p. 4.
Basso, Nicholas, Victoria, British Columbia, Canada. Support for pneumatic hammers. No. 1,381,535; June 14; v. 287; p. 282.
Bate, Alfred J., Yonkers, N. Y. Painting gold-balls. No. 1,382,615; June 28; v. 287; p. 600.
Bateman, William M., Newark, Del. Hooking device. No. 1,380,631; June 7; v. 287; p. 58.
Bates, John H., Chicago, Ill. Head-brush. No. 1,382,161; June 21; v. 287; p. 459.
Bates, Lindon W., Mount Lebanon, N. Y. Lowering the viscosity of liquids. No. 1,382,456; June 21; v. 287; p. 516.
Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No. 1,382,457; June 21; v. 287; p. 516.
Battle Creek Appliance Company. (See Rehthaler, Louis, assignor.)
Batts, William O., Wilmot, Kans. Track supporting and fastening means. No. 1,382,458; June 21; v. 287; p. 510.
Bauer, Ernst, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,380,704; June 7; v. 287; p. 84.
Bauerle, John, assignor to The Hauser-Stander Tank Company, Cincinnati, Ohio. Tank. No. 1,381,693; June 14; v. 287; p. 312.
Baum, William, Milwaukee, Wis., assignor to General Electric Company. Submersible motor. No. 1,380,943; June 7; v. 287; p. 119.
Baumgarti, Leroy, Chicago, Ill. Automobile-bumper. No. 1,381,614; June 14; v. 287; p. 296.
Baur, Hugo J., Chicago, Ill., assignor to Johnson Coin Counting Machine Company. Coin-counting machine. No. 1,382,050; June 21; v. 287; p. 439.
Baur, John. (See Tremer, Arnold H., assignor.)
Bausch & Lomb Optical Company. (See Simpson, Leon G., assignor.)
Bausman, George A., assignor to National Equipment Company, Springfield, Mass. Refining apparatus. No. 1,381,269; June 14; v. 287; p. 232.
Bausman, George A., assignor to National Equipment Company, Springfield, Mass. Maturing of chocolate and the like. No. 1,381,694; June 14; v. 287; p. 312.
Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Belt-knife splitting-machine. No. 1,382,755; June 28; v. 287; p. 627.
Baxter, William L. (See Thompson, A. E., and Baxter.)
Bayer, Joseph R., New York, N. Y. Pin-ticket. No. 1,383,063; June 28; v. 287; p. 685.
Bayless, Isabel L. (See McCaffrey, Mary M., assignor.)
Beach, Chester H., assignor to Wisconsin Electric Company, Racine, Wis. Sewing-machine motor. No. 1,382,162; June 21; v. 287; p. 459.
Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
Beadle, George W., New Rochelle, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Resilient clutch for phonographs. No. 1,382,406; June 21; v. 287; p. 506.
Bean, Riley H. (See Phalor, Samuel E., assignor.)
Beardsley, Clinton E., Rice Lake, Wis. Washing-machine. No. 1,381,784; June 14; v. 287; p. 329.
Beatty, David, Berkeley, Calif., assignor to himself as trustee. Material resembling leather. No. 1,382,947; June 28; v. 287; p. 663.
Beatty, David, trustee. (See Beatty, David, assignor.)
Beatty, Thomas W., Carey, Ohio. Porcelain-tube-heading machine. No. 1,381,695; June 14; v. 287; p. 312.
Beaupre, John P., Butte, Mont., assignor of one-half to G. E. Smiley, La Junta, Colo. Amalgamating sluice-box. No. 1,381,159; June 14; v. 287; p. 212.
Beavers, Elmer, Waltham, and W. A. Webber, Watertown, assignors to Sani-Tite Cap Company, Boston, Mass. Lining for jar-caps and sealing-jars. No. 1,382,051; June 21; v. 287; p. 439.
Beccari, Lodovico, Bologna, Italy. Vial for the conservation of medicamental liquids. No. 1,382,163; June 21; v. 287; p. 459.
Bechoff, Ferdinand N. (See Samuels, M. M., and Bechoff.)
Beck, Charles W., Detroit, Mich. Priming-cup. No. 1,380,345; June 7; v. 287; p. 4.
Beck, Sydney A., Burlingame, assignor to Hoover Spring Company, San Francisco, Calif. Bumper-attaching device. No. 1,381,901; June 21; v. 287; p. 411.
Becker, George, *et al.* (See Olsen, Harold, assignor.)

Becker, Philip, *et al.* (See Olsen, Harold, assignor.)
Becker, Philip, executor. (See Olsen, Harold.)
Becknell, George T., Nevada, Tex. Cotton-picking machine. No. 1,382,886; June 28; v. 287; p. 651.
Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding rubber. No. 1,380,765; June 7; v. 287; p. 84.
Beeby, Frank F., Chicago, Ill., assignor of one-half to Cement-Gun Construction Company, Chicago, Ill., and one-half to Cement Products Company, Wilmington, N. C. Septic tank. No. 1,381,615; June 14; v. 287; p. 296.
Beeby, Frank F., assignor to Cement-Gun Construction Company, Chicago, Ill. Telephone-booth. No. 1,382,265; June 21; v. 287; p. 479.
Beekman, Ross C., Kansas City, Kans. Washing-machine. No. 1,382,756; June 28; v. 287; p. 627.
Behne, W. T. (See Patten, John H., assignor.)
Behr, Hans C., New York, N. Y. Pump and similar apparatus. No. 1,382,336; June 21; v. 287; p. 492.
Belair, Thomas, Montreal, Quebec, Canada. Commercial-traveler's display-trunk. No. 1,380,861; June 7; v. 287; p. 103.
Belcher, Osmond T., Los Angeles, Calif. Wood-weaving loom. No. 1,382,816; June 28; v. 287; p. 638.
Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Clutch. No. 1,381,960; June 21; v. 287; p. 422.
Bell, Frank B., assignor to Edgewater Steel Company, Pittsburgh, Pa. Forging and dies therefor. No. 1,381,102; June 14; v. 287; p. 202.
Bellig, Daniel E., Montoursville, Pa. Brace and corner-block for chairs and other articles of furniture. No. 1,380,518; June 7; v. 287; p. 37.
Bellis, George C., assignor of one-half to T. H. Brown, Butler, Pa. Cleaning oil-wells. No. 1,382,337; June 21; v. 287; p. 492.
Bement, John W., Denver, Colo. Luggage-rack. No. 1,381,961; June 21; v. 287; p. 423.
Bemis, John E., Cedar Rapids, Iowa. Ledger-tray. No. 1,381,902; June 21; v. 287; p. 412.
Benedict, Edward. (See Reynolds, Arthur W., assignor.)
Benedict, Edward L., assignor to National Steel Fabric Company, Pittsburgh, Pa. Clamping device. No. 1,381,270; June 14; v. 287; p. 232.
Benjamin, E. V., Company, The. (See Goben, Edward G., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Renben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lighting device for motor-vehicles. No. 1,381,391; June 14; v. 287; p. 255.
Bennett, Arthur E., assignor of one-half to H. B. Staley, Buffalo, N. Y. Conveying apparatus. No. 1,382,266; June 21; v. 287; p. 479.
Bennett, Edward O., Berkeley, Calif., assignor of fifty per cent. to H. Rubl, Chicago, Ill. Keylock. No. 1,382,164; June 21; v. 287; p. 459.
Bennett Injector Company. (See Wood, A. J., assignor.)
Bennington, Willard R., Xenia, Ohio. Fuse-plug. No. 1,380,461; June 7; v. 287; p. 26.
Benson, Harry, Alameda, Calif. Sliding-door lock. No. 1,381,271; June 14; v. 287; p. 233.
Benton, Dudley C., San Diego, Calif. Hook and eye. No. 1,380,519; June 7; v. 287; p. 37.
Benton, James R., Oswego, N. Y. Tool. No. 1,383,064; June 28; v. 287; p. 685.
Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Back-filler. No. 1,380,944; June 7; v. 287; p. 119.
Benzon, George H., Jr., Jenkintown, assignor to William Sellers & Company, Inc., Philadelphia, Pa. Planer. No. 1,380,699; June 7; v. 287; p. 71.
Bercovici, Maurice, Botosani, Roumania. Combined match and toothpick. No. 1,382,459; June 21; v. 287; p. 516.
Berg, Olav, *et al.* (See Koch, Georg, assignor.)
Bergen, Harry S. (See Emig, Walter R., assignor.)
Berger, Joseph, Jr., assignor to Union Special Machine Company, Utica, N. Y. Thread-controlling mechanism for sewing-machines. No. 1,381,160; June 14; v. 287; p. 212.
Berger Manufacturing Company, The. (See Lehman, Edward G., assignor.)
Berglof, Knut, Buffalo, N. Y. Micrometer-protractor. No. 1,382,460; June 21; v. 287; p. 517.
Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-body. No. 1,381,445; June 14; v. 287; p. 265.
Bernardini, Roland P., Cranston, R. I. Carbureter-lock. No. 1,380,346; June 7; v. 287; p. 4.
Bernhard, Louis, Boston, Mass. Device for holding doors and the like. No. 1,381,696; June 14; v. 287; p. 313.
Berthelsen, Anders L., assignor to Henry Morton, Chicago, Ill. Tractor-tread. No. 1,381,857; June 14; v. 287; p. 343.
Bernier, Anthime, Montreal, Quebec, Canada. Railway-tie. No. 1,381,962; June 21; v. 287; p. 423.
Berry, Anne C., New York, N. Y. Garment. No. 1,382,461; June 21; v. 287; p. 517.
Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Wheel-mounting. No. 1,380,462; June 7; v. 287; p. 26.
Berthel, Charles J., Akron, Ohio. Vulcanizing-oven. No. 1,382,948; June 28; v. 287; p. 663.
Besch, Joseph, Albany, N. Y. Headlight-reflector. No. 1,381,161; June 14; v. 287; p. 213.
Bessiers, Marie. (See Carley, William J., assignor.)
Beverage, Harold H., Schenectady, N. Y., assignor to General Electric Company, Radioreceiving system. No. 1,381,089; June 7; v. 287; p. 147.
Bevill, Claibourn, Bushnell, Fla. Cultivator. No. 1,381,393; June 14; v. 287; p. 255.
Bevill, Claibourne, Bushnell, Fla. Fertilizer-distributer. No. 1,381,392; June 14; v. 287; p. 255.
Bewley, Henry, Mansfield, Ohio, assignor of one-half to The Ideal Electric & Mfg. Co. Secondary winding for induction-motors. No. 1,381,785; June 14; v. 287; p. 329.
Beynon, Arthur B., San Antonio, Tex. Demountable rim. No. 1,382,887; June 28; v. 287; p. 652.
Bickel, Clifford E. (See Murphey, F. P., and Bickel.)
Bidwell, Carlyle D., Milwaukee, Wis., assignor, by mesne assignments, to International Harvester Company. Preheater for furnaces. No. 1,382,757; June 28; v. 287; p. 627.
Biernatzki, Albert C., Aurora, Ill. Sheet-flooring and producing same. No. 1,382,595; June 21; v. 287; p. 543.
Biggert, Florence C., Jr., Pittsburgh, Pa. Wall-crane. No. 1,383,065; June 28; v. 287; p. 686.
Bills, Elmer S., Chicago, Ill., assignor to Harmony Spring Cushion Co. Spring-cushion construction. No. 1,382,462; June 21; v. 287; p. 517.
Binder, John, New York, assignor to International Cork Company, Brooklyn, N. Y. Machine for the manufacture of bottle-closures. No. 1,381,055; June 7; v. 287; p. 141.
Bird, Charles S., East Walpole, Mass. Paper-making machine. No. 1,381,272; June 14; v. 287; p. 233.
Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,383,254; June 28; v. 287; p. 721.
Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Machine for making plaster-board. No. 1,383,255; June 28; v. 287; p. 721.
Birdsey, Seeley P., assignor to Wilcox, Crittenden and Company, Inc., Middletown, Conn. Making grapnels. No. 1,380,766; June 7; v. 287; p. 84.
Birkenbeuel, Edward B., Portland, Oreg. Can-cover lifter. No. 1,383,265; June 28; v. 287; p. 723.
Birrell, James, assignor to Super Valve Co., Chicago, Ill. Uniting the heads and stems of valve members. No. 1,382,052; June 21; v. 287; p. 439.
Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)
Bishop, Charles B., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Handpiece for dental engines. No. 1,381,697; June 14; v. 287; p. 313.
Bishop, Howard B., Media, Pa. Making fluorids. No. 1,382,165; June 21; v. 287; p. 460.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Porch-light. No. 1,382,267; June 21; v. 287; p. 479.
Black, John, Hulatt, British Columbia, Canada. Valve for internal-combustion engines. No. 1,382,053; June 21; v. 287; p. 439.
Blackwell, William T., Verona, N. J., assignor to Westinghouse Lamp Company. Reflector. No. 1,381,103; June 14; v. 287; p. 202.
Blaetz, Harry M., Philadelphia, Pa., assignor to The Conley Foil Company, New York, N. Y. Printing-plate matrix and making same. No. 1,382,713; June 28; v. 287; p. 619.
Blair, Harold S., Long Branch, N. J. Antirattler. No. 1,382,054; June 21; v. 287; p. 440.
Blair, John H., San Francisco, Calif. Mower. No. 1,383,066; June 28; v. 287; p. 686.
Blair, William J., assignor to A. E. Wooda, Melbourne, Victoria, Australia. Means for automatically recording calls in telephone systems. No. 1,382,817; June 28; v. 287; p. 638.
Blake, Albert N., *et al.* (See Roberts, Frank E., assignor.)
Blake, Ell J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. System of train control. No. 1,381,698; June 14; v. 287; p. 313.
Blakely, Richard M., Dayton, Ohio. Domestic refrigerating apparatus. No. 1,381,056; June 7; v. 287; p. 141.
Blanchard, Frederick C. (See Field, M. F., Lanning, Hathaway, and Blanchard.)
Blanchard, George N., assignor to Colmar Burner Co., Inc., San Francisco, Calif. Burner attachment. No. 1,381,273; June 14; v. 287; p. 233.
Blanchard, Raymond H., Malden, assignor to Hood Rubber Company, Watertown, Mass. Hard-rubber battery-cell and making same. No. 1,380,520; June 7; v. 287; p. 37.
Blasingame, Frank P., Canton, Tex. Broom. No. 1,380,521; June 7; v. 287; p. 87.
Blattner, Abraham, Pittsburgh, Pa. Wearing-apparel. No. 1,382,616; June 28; v. 287; p. 600.
Blaw-Knox Company. (See McArthur, Charles D., assignor.)
Blaw-Knox Company. (See Venable, William M., assignor.)

Blenio, Guido, assignor to Blenio Products Corporation, New York, N. Y. Dry mixture for fire and water proof paint. No. 1,382,617; June 28; v. 287; p. 600.
Blenio, Guido, assignor to Blenio Products Corporation, New York, N. Y. Fireproofing solution. No. 1,382,618; June 28; v. 287; p. 600.
Blenio, Guido, assignor to Blenio Products Corporation, New York, N. Y. Fire-extinguisher. No. 1,382,619; June 28; v. 287; p. 600.
Blenio Products Corporation. (See Blenio, Guido, assignor.)
Bliss, Bruce E., Wichita, Kans. Anti-skid and mud chain. No. 1,380,522; June 7; v. 287; p. 37.
Blomberg, Klas G., Södertalje, and B. A. Pettersson, Lidköping, Sweden. Machine for producing spring dress-fasteners. No. 1,382,463; June 21; v. 287; p. 517.
Bloodgood, James H., Portsmouth, Va. Device for protecting the ignition system of automobiles. No. 1,381,394; June 14; v. 287; p. 255.
Bloomfield, Benares J., Brighton, England. Means for securing articles on mandrels, spindles, and the like. No. 1,382,249; June 28; v. 287; p. 663.
Blum, Charles, Philadelphia, Pa. Torpedo. No. 1,382,166; June 21; v. 287; p. 460.
Blum, George J., assignor to Armstrong-Blum Mfg. Company, Chicago, Ill. Punch-press. No. 1,382,464; June 21; v. 287; p. 517.
Blumberg, Paul and Otto Meill, New Holstein, Wis. Tractor-clutch control. No. 1,381,104; June 14; v. 287; p. 202.
Blume, George F., Philadelphia, Pa. Distancing device. No. 1,380,347; June 7; v. 287; p. 5.
Blumer, Paul. (See Hans, T. J., and Blumer.)
Blynt, Herbert S. (See Monnett, J. L., and Blynt.)
Board of Trustees of the University of Illinois. (See Kunz, Jacob, assignor.)
Bock, Alfred C. C., Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,381,395; June 14; v. 287; p. 256.
Bock, Herman, St. Paul, Minn. Check-holder. No. 1,382,167; June 21; v. 287; p. 460.
Bockhoff, William F. (See Knipp, Julius W., assignor.)
Boecler, Albert, Malmo, Sweden. Apparatus for manufacturing seamless articles of rubber. No. 1,380,862; June 7; v. 287; p. 103.
Boedecker, Friedrich, Britz, near Berlin, Germany. Production of a crystallized ester of the stearo-ricinatedilodid. No. 1,381,057; June 7; v. 287; p. 141.
Boenning, William M., Manitowoc, Wis. Shock-absorber. No. 1,381,699; June 14; v. 287; p. 313.
Boettcher, Arthur H., Chicago, Ill. Pilot-directing instrument and bomb-dropping sight for aircraft. No. 1,381,396; June 14; v. 287; p. 256.
Boggs, Addison E., Pittsburgh, and A. Heckman, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,381,163; June 14; v. 287; p. 213.
Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Paper-cup holder. No. 1,381,536; June 14; v. 287; p. 282.
Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Paper drinking-cup. No. 1,381,537; June 14; v. 287; p. 282.
Bojko, Iwan, assignor of one-third to J. Yadwisinczak, Rome, N. Y. Fountain-brush. No. 1,382,055; June 21; v. 287; p. 440.
Bonelli, Pasquale, Port Richmond, N. Y. Boot. No. 1,381,538; June 14; v. 287; p. 282.
Bonnett, Joe E., Troy, W. Va. Wrench. No. 1,381,786; June 14; v. 287; p. 329.
Bontemps, Antoine, and G. N. Vis, Paris, France. Apparatus for the continuous separation of solids from liquids. No. 1,382,056; June 21; v. 287; p. 440.
Booth Electric Furnace Co., The. (See Booth, William K., assignor.)
Booth, William K., assignor to The Booth Electric Furnace Co., Chicago, Ill. Melting metal turnings, borings, &c. No. 1,380,767; June 7; v. 287; p. 84.
Borland, Charles M., assignor of one-half to A. Haitt, Echo, Oreg. Tractor push-rake. No. 1,383,184; June 28; v. 287; p. 708.
Borman, Emil, Chicago, Ill. Pneumatic heel. No. 1,383,067; June 28; v. 287; p. 686.
Bosick, Charles, Denver, Colo. Trench digging and cleaning shovel. No. 1,382,057; June 21; v. 287; p. 440.
Bosshard, Theodore, Brooklyn, N. Y. Waterproofing composition. No. 1,383,068; June 28; v. 287; p. 686.
Bostick, Joseph W. and C. H. Homer, Houston, Tex. Treatment of crude petroleum for purification. No. 1,380,863; June 7; v. 287; p. 103.
Boston Pencil Pointer Company. (See Wilson, Allen P., assignor.)
Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding-salesbook. No. 1,381,446; June 14; v. 287; p. 265.
Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding-salesbook. No. 1,381,447; June 14; v. 287; p. 265.
Bouchard, Urbain J., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,381,162; June 14; v. 287; p. 213.
Bourdeau, J. D., Detroit, Mich., and W. B. Fink, Washington, D. C., assignors to The Quaker Oats Company, Chicago, Ill. Food product. No. 1,381,858; June 14; v. 287; p. 242.
Bourdelles, Emile A. L., assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St.-Denis, France. Automatic firearm. No. 1,382,058; June 21; v. 287; p. 440.
Bowden, William C., Middle Village, N. Y. Rolling-machine for working plastic material. No. 1,380,632; June 7; v. 287; p. 58.
Bowen, Richard E., Los Angeles, Calif. Railway-crossing. No. 1,381,787; June 14; v. 287; p. 330.
Boyd, Lyman, Canton, Ohio. Game-board. No. 1,383,185; June 28; v. 287; p. 708.
Boyer, Allen B., and O. Davisson, Trees, La. Bailing apparatus. No. 1,383,069; June 28; v. 287; p. 686.
Brabant, William H., Sheboygan, Wis. Moisture-preventing composition. No. 1,381,788; June 14; v. 287; p. 330.
Braconier, Clarence A., Ypsilanti, Mich. Bellows-actuated switch. No. 1,381,789; June 14; v. 287; p. 330.
Bradbury, Edward G., Columbus, Ohio. Game. No. 1,381,164; June 14; v. 287; p. 213.
Bradford, Charles M. (See Bunker, D. W., and Bradford.)
Braley, Charles L., assignor to The American Laundry Machinery Co., Cincinnati, Ohio. Neckband-expanding device. No. 1,381,058; June 7; v. 287; p. 141.
Bramberry, Harry M., Norfolk, Va. Metallic piston-packing. No. 1,382,465; June 21; v. 287; p. 518.
Brammer, Harry, Leeds, England. Driving and other belts. No. 1,382,888; June 28; v. 287; p. 652.
Brand, Charles A., Roseburg, Oreg. Stand for packing fruits. No. 1,382,950; June 28; v. 287; p. 663.
Brand, Frank H., Elmwood Place, Ohio. Stove. No. 1,381,790; June 14; v. 287; p. 330.
Branigan, Clifford G., New York, N. Y. Auxiliary fuel-tank. No. 1,382,407; June 21; v. 287; p. 506.
Brannberg, Art F., *et al.* (See Duncan, John N., assignor.)
Brasen, Axel, Astorin, N. Y. Milling-cutter. No. 1,381,059; June 7; v. 287; p. 142.
Brassington, Arthur F., Port Richmond, N. Y. Chimney cap or ventilator. No. 1,380,882; June 7; v. 287; p. 107.
Brauer, Otto H. J., Mahnomen, Minn. Attachment for filing-cabinets. No. 1,382,466; June 21; v. 287; p. 518.
Bredlik, Vladimir. (See Schrader, L. F., Roberts, and Bredlik.)
Breen, Thomas E., Philadelphia, Pa., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 1,382,951; June 28; v. 287; p. 664.
Breerwood, Charles H., Philadelphia, Pa. Refractory material and making the same. No. 1,380,700; June 7; v. 287; p. 71.
Breerwood, Charles H., Philadelphia, Pa., assignor to Coplay Cement Manufacturing Company. Making dolomite bricks. No. 1,380,701; June 7; v. 287; p. 71.
Brehlo, Charles L., Worcester, Mass. Washing-machine. No. 1,382,268; June 21; v. 287; p. 479.
Brengelman, Charles A. (See Roser, Jeremiah, assignor.)
Bressler, Regina N., New York, N. Y. Inflating-valve. No. 1,381,700; June 14; v. 287; p. 313.
Briasco Manufacturing Company. (See Michaels, Robert, assignor.)
Brice, Herbert E., Toronto, Ontario, Canada. Weather-strip for doors. No. 1,381,963; June 21; v. 287; p. 423.
Brichacek, Anton E. (See Schmid, Gerald, and J. Brichacek, and Tully.)
Bridgeport Brass Company. (See Lymont, Alexander W., assignor.)
Briggs, James, Hollings Hill, Esholt, England. Antiskid device. No. 1,381,060; June 7; v. 287; p. 142.
Brigham, Henry M. (See Leslie, E. A., and Brigham.)
Briles, Larkin, Lake City, Calif. Orchard-ladder. No. 1,381,397; June 14; v. 287; p. 256.
Brill, J. G., Company, The. (See Pearson, Henry, assignor.)
Bringman, George W., Cleveland, Ohio. Automobile signal-lamp. No. 1,381,701; June 14; v. 287; p. 314.
Brink, Carl A., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding apparatus. No. 1,383,186; June 28; v. 287; p. 708.
Brinkman, Louis H., Glen Ridge, and W. H. Fulton, Irvington, and H. Shellmer, Newark, N. J., assignors to Titeflex Metal Hose Corporation. Apparatus for making tubes. No. 1,383,187; June 28; v. 287; p. 708.
Bristol, William H., Waterbury, Conn. Recording sound. No. 1,380,864; June 7; v. 287; p. 104.
Brock, Clarence A., Detroit, Mich. Spring. No. 1,380,523; June 7; v. 287; p. 38.
Bronson, Arthur S., El Paso, Tex. Container. No. 1,381,165; June 14; v. 287; p. 213.
Brooks, Charles E., Minneapolis, Minn. Lawn-sprinkler. No. 1,380,464; June 7; v. 287; p. 27.
Brooks, Linzy, Rainier, Oreg. Traffic-signal. No. 1,381,398; June 14; v. 287; p. 256.
Brooks, William C., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Containing-box for electric batteries. No. 1,381,399; June 14; v. 287; p. 256.
Brosnan, Cornelius J., Springfield, Mass. Intensifier. No. 1,382,338; June 21; v. 287; p. 493.
Brouhard, Roy W., and W. H. Donaldson, Colo, Iowa. Valve-puller. No. 1,381,890; June 14; v. 287; p. 350.

Brown, Arthur C. and S. P. Smith, Norwich, Conn. Toy car. No. 1,381,061; June 7; v. 287; p. 142.
Brown, Charles J., Tonawanda, assignor of one-half to L. C. Newman, Buffalo, N. Y. Pulp-producing apparatus. No. 1,380,524; June 7; v. 287; p. 38.
Brown Company. (See Cox, John T., assignor.)
Brown, E. W. (See Rote, Charles V., assignor.)
Brown, Elmer J., Rangeley, Me. Tooth-brush-marker. No. 1,380,633; June 7; v. 287; p. 58.
Brown, Eric, assignor to Aktiengesellschaft Brown Boverie & Cie., Baden, Switzerland. Toothed wheel. No. 1,383,266; June 28; v. 287; p. 723.
Brown, Harry L. (See Schiehelin, Schuyler, assignor.)
Brown, John W., and W. Hess, assignors to B. F. Obuyke, Inc., Philadelphia, Pa. Sheet-metal-seaming machine. No. 1,381,062; June 7; v. 287; p. 142.
Brown, Levi, Milwaukee, assignor of one-half to L. McElwain, Walworth, Wis. Precision-gage. No. 1,380,945; June 7; v. 287; p. 119.
Brown, Martha A., Pittsburgh, Pa. Sash-fastener. No. 1,382,758; June 28; v. 287; p. 627.
Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Controlling mechanism for booster-motors. No. 1,380,348; June 7; v. 287; p. 5.
Brown, Silas B., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Toy repeating rifle. No. 1,381,449; June 14; v. 287; p. 266.
Brown, Thomas H. (See Bellis, George C., assignor.)
Browning, John M., Ogden, Utah. Firearm. No. 1,381,448; June 14; v. 287; p. 265.
Bruhn, Gustav A., Harburg-on-the-Elbe, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Stop mechanism for registers. No. 1,382,467; June 21; v. 287; p. 518.
Brunk, Mary V., Kansas City, Mo. Cap, hat, and bonnet. No. 1,380,525; June 7; v. 287; p. 38.
Brush, Frederick F., Los Angeles, Calif., assignor to Elevator Safety Appliance Company. Automatic door-opening device. No. 1,381,168; June 21; v. 287; p. 460.
Bruun, Lars, Skien, Norway. Tenoning-machine. No. 1,382,621; June 28; v. 287; p. 601.
Bryant, Charles W. (See Lindsay, Leroy J., assignor.)
Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Program battery-charging device. No. 1,382,622; June 28; v. 287; p. 601.
Byrne, Christopher, Pittsburgh, Pa. Feed-spacer. No. 1,382,623; June 28; v. 287; p. 601.
Bryson, John D. (See McConnell, C. D., and Bryson.)
Buchan, William P., Minneapolis, Minn. Scale. No. 1,382,269; June 21; v. 287; p. 479.
Buchanan, Frank L., Oakland, Calif. Composition for paint. No. 1,381,274; June 14; v. 287; p. 233.
Buchanan, Leroy H., Wisconsin Soldiers Home, Wis. Motor-vehicle-power-plant elevating appliance. No. 1,382,714; June 28; v. 287; p. 619.
Bucher and Gibbs Plow Company, The. (See Niesz, Franklin B., assignor.)
Buckeye Steel Castings Company, The. (See Larsen, Jacob C., assignor.)
Buckeye Traction Ditcher Company, The. (See Krupp, Leo A., assignor.)
Buckham, George T. (See Dawson, Arthur T., and Buckham.)
Buckingham, James F., Coventry, England. Live axle and countershaft for motor-vehicles. No. 1,381,063; June 7; v. 287; p. 142.
Buckle, Gerard F., St. Leonards-on-Sea, and F. Parfett, London, England; said Parfett assignor to said Buckle. Course-indicator or the like. No. 1,380,768; June 7; v. 287; p. 84.
Buckley, John. (See Clausen, J. C., and Buckley.)
Buckwalter, Leon G. (See Hench, Martin K., assignor.)
Bud, Charles H., New Albany, Ind. Saw-gage. No. 1,382,059; June 21; v. 287; p. 441.
Bugbee, Alvin, Trenton, N. J. Storage battery. No. 1,382,270; June 21; v. 287; p. 480.
Bukolt, Roman B., Stevens Point, Wis. Child's pedaling-car. No. 1,383,070; June 28; v. 287; p. 686.
Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Tool-slide for machine-tools. No. 1,382,339; June 21; v. 287; p. 492.
Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Controlling means for machine-tools. No. 1,382,340; June 21; v. 287; p. 493.
Bullard Machine Tool Company, The. (See Bullard, Edward P., Jr., assignor.)
Bullen, John H., Lakewood, Ohio. Pump-valve. No. 1,382,408; June 21; v. 287; p. 506.
Bulley, George W., Chicago, Ill. Vulcanizing apparatus. No. 1,380,463; June 7; v. 287; p. 26.
Bullock, Edward W. (See Stewart, A. L., Bullock, and Earl.)
Bullock, George E., Detroit, Mich. Tire. No. 1,381,105; June 14; v. 287; p. 202.
Bumpass, Cecil A., assignor of one-half to A. H. Potsch, Genesee, Idaho. Shoe and leather dressing. No. 1,382,468; June 21; v. 287; p. 518.
Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,381,964; June 21; v. 287; p. 423.
Bunker, Darius W., Brookline, and C. M. Bradford, Dorchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Insole and making. No. 1,382,818; June 28; v. 287; p. 639
Burbank, Louis S., Ludlow, Mass., assignor to Ludlow Manufacturing Associates. Picker-check means for loom. No. 1,380,465; June 7; v. 287; p. 27.
Burd High Compression Ring Company. (See Winquist, Victor, assignor.)
Burgess, Walter S. (See Duffy, Thomas I., assignor.)
Burgess, Walter S. (See Voight, George F., assignor.)
Burns, Peter C., assignor to American Electric Co., Chicago, Ill. Telephone desk set. No. 1,381,903; June 21; v. 287; p. 412.
Burns, William H., St. Paul, Minn. Sliding-door fastener. No. 1,381,891; June 14; v. 287; p. 350.
Burrage, Albert C., Jr., Hamilton, and G. Meisel, assignors to Atlantic Dyestuff Company, Burrage, Mass. Preparing sulfur-black and the product thereof. No. 1,383,071; June 28; v. 287; p. 687.
Burrage, Albert C., Jr., Hamilton, and G. Meisel, assignors to Atlantic Dyestuff Company, Burrage, Mass. Sulfur-black. No. 1,383,072; June 28; v. 287; p. 687.
Burrell, G. A., New York, N. Y., C. L. Voress, and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Dissipating heat in process for extracting vapors from gaseous mixtures. No. 1,382,889; June 28; v. 287; p. 652.
Burrell, George A., New York, N. Y., Clyde L. Voress, and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Process and apparatus for recovering and recondensing gasolene, naphtha, and the like. No. 1,382,890; June 28; v. 287; p. 652.
Burrmann, Henry, Davenport, Iowa. Stock watering and feeding machine. No. 1,381,400; June 14; v. 287; p. 256.
Burris, George V., Courtland, Calif. Harness-buckle. No. 1,382,469; June 21; v. 287; p. 518.
Busch-Sulzer Bros.-Diesel Engine Company. (See Müller, Jakob, assignor.)
Bush, Frank P., F. G. Serr, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Collapsible crate. No. 1,380,349; June 7; v. 287; p. 5.
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam-hanger-locking key. No. 1,381,275; June 14; v. 287; p. 233.
Buster, John H., Marysville, Calif. Drawers-supporter. No. 1,380,466; June 7; v. 287; p. 27.
Bute, William E., Stanhope, Iowa. Knockdown hog-crate. No. 1,381,892; June 14; v. 287; p. 350.
Butler, Alva L., Ucon, Idaho. Road-scraper. No. 1,382,470; June 21; v. 287; p. 518.
Butler, James L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building machine. No. 1,382,471; June 21; v. 287; p. 519.
Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Bipod rest for firearms. No. 1,382,409; June 21; v. 287; p. 507.
Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Detachable stock for firearms. No. 1,382,410; June 21; v. 287; p. 507.
Butterfield, Alfred W., Portland, Oreg. Spiral-guide fire-escape. No. 1,382,341; June 21; v. 287; p. 493.
Butterfield, Joseph T., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for measuring gas-pressures. No. 1,381,450; June 14; v. 287; p. 266.
Bybee, John W., *et al.* (See Crimer, Harry J., assignors.)
Byrd, Clifton M., Lagrange, Ga. Auxiliary yarn spooler or winder. No. 1,381,791; June 14; v. 287; p. 330.
Byrne, George M., and W. M. Sibley, Lincoln, Nebr. Pressure-reducing gage. No. 1,382,411; June 21; v. 287; p. 507.
Cadgene, Dr. Ernest, *et al.* (See Koch, Georg, assignor.)
Cadiaux, Dolard, Lowell, Mass. Removing discoloring deposits from masonry structures. No. 1,380,634; June 7; v. 287; p. 58.
Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
Cadmus, Alfred B., New York, N. Y. Cigarette-package. No. 1,381,276; June 14; v. 287; p. 233.
Cafferata & Co. (See Johnson, Frank M., assignor.)
Cahill, Thomas J., Philadelphia, Pa. Submarine mine. No. 1,381,792; June 14; v. 287; p. 331.
Caine, Julius S., Des Moines, Iowa. Duplex envelop. No. 1,381,793; June 14; v. 287; p. 331.
Caleff, Ophelia O., Boston, Mass. Gas-burner. No. 1,381,539; June 14; v. 287; p. 282.
Callard, Robert P., Fort Wayne, Ind. Positive-stroke pump mechanism. No. 1,380,702; June 7; v. 287; p. 71.
California Almond Growers Exchange. (See Pierce, George W., assignor.)
Camerer, Arthur A. (See Hanlon, William P., assignor.)
Cameron, Frank, Jr., assignor of one-third to A. C. Kneffie, Harrison, Ohio. Shape-retainer for the bottoms of trousers-legs. No. 1,381,965; June 21; v. 287; p. 423.
Camp, Samuel H., Jackson, Mich. Abdominal support. No. 1,380,883; June 7; v. 287; p. 107.
Campbell, Bryant D., Oakland, Calif. Telephone system. No. 1,382,891; June 28; v. 287; p. 652.
Campbell, Charles E. (See Hadaway, J. B., and Campbell.)
Campbell, Donald M., and H. E. Little, Wichita, Kans. Tire-patch. No. 1,381,966; June 21; v. 287; p. 424.

Campbell, Frederick H., assignor of one-fourth to C. R. Hunn, Chicago, Ills. Vehicle-wheel rim. No. 1,380,350; June 7; v. 287; p. 5.
Campbell, Harry E. (See Elliott, Irving H., assignor.)
Campbell, James H., Cambridge, Mass. Electromagnetic valve. No. 1,382,412; June 21; v. 287; p. 507.
Campbell, Joseph S., Ogden, Utah. Lever-lock. No. 1,382,169; June 21; v. 287; p. 460.
Campbell, Robert E., Berkeley, Calif. Anatomical articulator. No. 1,381,794; June 14; v. 287; p. 331.
Campini, George G., San Francisco, Calif. Interchangeable last. No. 1,381,702; June 14; v. 287; p. 314.
Can Conservation Company. (See Rude, James M., assignor.)
Candee, Andrew H., Pittsburgh, and H. H. Johnston, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,381,277; June 14; v. 287; p. 234.
Candee, L., & Company. (See Joseph, Frank A., assignor.)
Cape, John M., San Marcos, Tex. Boll-weevil-exterminating device. No. 1,380,351; June 7; v. 287; p. 5.
Caneavri, Joseph P., Port Arthur, Tex. Comb. No. 1,382,342; June 21; v. 287; p. 494.
Canter, Vernon C. (See Burrell, G. A., Voress, and Canter.)
Canton, Rolland J., Lynn, Mass. Bottle-capping and wire-removing machine. No. 1,381,278; June 14; v. 287; p. 234.
Cantwell, Fred L., San Bernardino, Calif. Blower. No. 1,381,401; June 14; v. 287; p. 257.
Capello, Arrigo. (See Quaglia, G., and Capello.)
Capitano, Alessandro, Pittston, Pa. Square. No. 1,383,073; June 28; v. 287; p. 687.
Carbo-Gas Company, The. (See de Clairmont, Adolfo, assignor.)
Carlen, Bjarne, Nordstran, near Christiania, Norway. Silencer for internal-combustion engines. No. 1,382,472; June 21; v. 287; p. 519.
Carley, William J., assignor to M. Bessiers, Culpeper, Va. Wire-clamp. No. 1,382,620; June 28; v. 287; p. 600.
Carlson, Axel, Berkeley, Calif. Saw-making machine. No. 1,382,819; June 28; v. 287; p. 639.
Carlson, Charles N., Duluth, Minn. Pipe-holding band. No. 1,381,279; June 14; v. 287; p. 234.
Carlson, John, Chicago, Ill. Sprinkler. No. 1,380,769; June 7; v. 287; p. 85.
Carlson, Julius, Brooklyn, N. Y. Cap. No. 1,380,703; June 7; v. 287; p. 72.
Carlson, Ole, Los Angeles, Calif. Milk-bottle-cap remover and retainer. No. 1,382,820; June 28; v. 287; p. 639.
Carlson, Steener J., White Butter, S. D. Header-pusher for tractors. No. 1,380,352; June 7; v. 287; p. 6.
Carlsson, Charles L., Ivoryton, Conn. Rail joint and bond. No. 1,383,074; June 28; v. 287; p. 687.
Carolina Motor Company. (See Sills, Frederick R., assignor.)
Carpenter, Arthur C., Pasadena, Calif. Retriever for golf-balls. No. 1,380,526; June 7; v. 287; p. 38.
Carpenter, Campbell C., assigner to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Treating storage-battery separators. No. 1,380,353; June 7; v. 287; p. 6.
Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Fills, N. Y. Storage-battery separator. No. 1,380,354; June 7; v. 287; p. 6.
Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,380,770; June 7; v. 287; p. 85.
Carr, Alva B., Bellevue, Alberta, Canada. Valve. No. 1,380,527; June 7; v. 287; p. 38.
Carson, Benjamin T., Rensselaer, N. Y. Tool-holder. No. 1,382,413; June 21; v. 287; p. 507.
Carr, Don P., Homer, Mich. Stone-picking machine. No. 1,381,540; June 14; v. 287; p. 283.
Carr, John J., Yonkers, N. Y. Ticket-case. No. 15,118; June 7; v. 287; p. 148.
Carrier Engineering Corporation. (See Andrews, Charles W., assignor.)
Carson, George G., *et al.* (See Carson, Robert H., assignor.)
Carson, Harry C., Cheviot, Ohio. Gearing for vehicle-signals. No. 1,382,624; June 28; v. 287; p. 601.
Carson, John A., Huntington, N. Y. Valve. No. 1,381,795; June 14; v. 287; p. 331.
Carson, Robert H., assignor to G. W. Reed, Danville, Ill. Centrifugal pump. No. 1,382,604; June 21; v. 287; p. 544.
Carson, Robert H., assignor of one-sixth to G. W. Reed, one-sixth to M. L. Coutant, one-sixth to T. J. Hawkins, one-sixth to H. C. Adams, and one-sixth to G. G. Carson, Danville, Ill. Centrifugal pump. No. 1,382,605; June 21; v. 287; p. 544.
Carswell, Joseph S., and A. R. Hammond, Boone, Iowa. Motor-block stand. No. 1,380,704; June 7; v. 287; p. 72.
Carter, Nixon L., Newport News, Va. Dome-support. No. 1,380,946; June 7; v. 287; p. 119.
Cartwright, David J., New York, N. Y. Fuel-feeding pump. No. 1,380,771; June 7; v. 287; p. 85.
Case, J. I., Threshing Machine Company. (See Morrissey, Patrick W., assignor.)
Cash, Arthur W., assignor to United States Wire Mat Company, Decatur, Ill. Implement or device for killing or disabling insects, flies, or the like. No. 1,380,355; June 7; v. 287; p. 6.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,382,759; June 28; v. 287; p. 627.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for forming fastenings. No. 1,382,760; June 28; v. 287; p. 628.
Caspers, Herman D., Sheffield, Iowa. Stock-separator. No. 1,381,797; June 14; v. 287; p. 332.
Caswell, Leonard H., Maidstone, England. Lamp-shade holder. No. 1,381,796; June 14; v. 287; p. 331.
Caulk, L. D., Company, The. (See Zurbrigg, Daniel A., assignor.)
Cavanaugh, James M., Big Oak Flat, Calif. Wrench. No. 1,382,761; June 28; v. 287; p. 628.
Caylor, Jefferson, Indianapolis, assignor to Pioneer Box Company, Crawfordsville, Ind. Wire-bound package. No. 1,382,473; June 21; v. 287; p. 519.
Cement-Gun Construction Company, *et al.* (See Beeby, Frank F., assignor.)
Cement Products Company, *et al.* (See Beeby, Frank F., assignor.)
Central Manufacturing Company. (See Kintzele, Julius H., assignor.)
Central Oil and Gas Stove Company. (See White, Fred E., assignor.)
Central Scientific Company. (See de Khotinsky, Archilles, assignor.)
Central Specialty Company. (See Collins, Clyde R., assignor.)
Central Talking Machine Shop. (See Hadley, Walter C., assignor.)
Chaffin, Norman W., Brunswell, W. Va. Railway-switch. No. 1,383,188; June 28; v. 287; p. 709.
Chambers, Samuel H. (See Wallace, Clyde K., assignor.)
Chantler, Henry C. (See Hedrick, H. L., and Chantler.)
Chappell, Fred B., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y. Combustion-chamber for sulfur-burners. No. 1,382,343; June 21; v. 287; p. 494.
Charles, Manuel, Mexico, Mex. Typewriter. No. 1,381,798; June 14; v. 287; p. 332.
Charles, Seward, Washington, D. C. Reinforced concrete structure. No. 1,382,060; June 21; v. 287; p. 441.
Charlton, Harry W., Jones Point, N. Y., assignor to American Potash Corporation. Hydrate of lime. No. 1,381,106; June 14; v. 287; p. 202.
Chase Companies, The. (See Recker, Adolph C., assignor.)
Chase, William P. (See Steinkraus, Henry F., assignor.)
Chaviara, John N. (See Gill, J. F., and Chaviara.)
Chebotaref, Leo F., Wappingers Falls, N. Y., assignor, by mesne assignments, to National Aniline & Chemical Company, Inc. Manufacture of naphthols. No. 1,381,280; June 14; v. 287; p. 234.
Chelstrom, Gust V., Minneapolis, Minn. Indicating caliper attachment. No. 1,382,061; June 21; v. 287; p. 441.
Chenery, Charles R., Buffalo, N. Y. Refrigerator-door latch. No. 1,381,799; June 14; v. 287; p. 332.
Chicago Bearings Company. (See Winn, Charles A., assignor.)
Chicago Pneumatic Tool Company. (See Coates, Charles B., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
Chisholm, Douglas W., Woodhead, Garnkirk, Scotland. Apparatus for the manufacture of welded tubes. No. 1,380,356; June 7; v. 287; p. 6.
Christensen, John L., Chicago, Ill. Wrapper. No. 1,381,904; June 21; v. 287; p. 412.
Christiansen, Christian, and E. Nordling, Sioux Falls, S. D. Tractor-hitch. No. 1,382,062; June 21; v. 287; p. 441.
Christianson, Christ T., Brooklyn, Md. Automobile-hood. No. 1,381,166; June 14; v. 287; p. 214.
Christman, George L. (See Mahoney, J. N., and Christman.)
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,382,952; June 28; v. 287; p. 664.
Christopher, Arthur B., St. Louis, Mo. Spark-intensifier. No. 1,380,947; June 7; v. 287; p. 119.
Christopher, Calvin F., Asheville, N. C. Combination computing and paper-roll machine. No. 1,381,541; June 14; v. 287; p. 283.
Chryst, William A. (See Kettering, C. F., and Chryst.)
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,382,953; June 28; v. 287; p. 664.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,382,954; June 28; v. 287; p. 664.
Clapp, Albert L., Marblehead, assignor, by mesne assignments, to Fibreboard Company, Boston, Mass. Boot and shoe and making same. No. 1,380,865; June 7; v. 287; p. 104.
Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)
Clapperton, Alexander, Yonkers, N. Y. Pile-cutter. No. 1,381,905; June 21; v. 287; p. 412.
Clark, Charles H., New York, N. Y. Bicycle. No. 1,381,281; June 14; v. 287; p. 234.

Clark, David H., Waynesville, N. C. Sawing-machine. No. 1,382,892; June 28; v. 287; p. 652.

Clark, Don A., and C. E. Lowe, assignor, by mesne assignments, to The Republic Tool and Manufacturing Company, Cleveland, Ohio. Making tire mandrels. No. 1,380,528; June 7; v. 287; p. 39.

Clark, Harry A., J. F. Hill, Douglas, and A. G. McGregor, Warren, Ariz. Ore roasting furnace. No. 1,380,529; June 7; v. 287; p. 39.

Clark, Harry H. (See Rhodes, John, assignor.)

Clark, Robert G., Brooklyn, N. Y. Internal-combustion engine. No. 1,383,075; June 28; v. 287; p. 687.

Clark Son & Morland, Ltd. (See Williams, Charles A., assignor.)

Clark, Warren F., Cleveland, Ohio, assignor to The Steam-Electric Products Company. Heating apparatus. No. 1,381,282; June 14; v. 287; p. 234.

Clark, William B., Lyons Farm, N. J. Safety-switch lock. No. 1,381,906; June 21; v. 287; p. 412.

Clark, William E., Brandon, Manitoba, Canada. Machine for eradicating quack-grass. No. 1,380,635; June 7; v. 287; p. 58.

Clark, William R., Seattle, Wash. Vehicle-brake. No. 1,380,772; June 7; v. 287; p. 85.

Clarke, Cecil M., Chicago, Ill. Dipping-vat for building-paper, &c. No. 1,381,967; June 21; v. 287; p. 424.

Clarke, John L., Montreal, Quebec, Canada. Electrical measuring apparatus. No. 1,381,968; June 21; v. 287; p. 424.

Clausen, Henry P., Mt. Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,380,357; June 7; v. 287; p. 6.

Clausen, Julius C., and J. Buckley, Buckley Bay, British Columbia, Canada. Choker-line attachment. No. 1,381,616; June 14; v. 287; p. 296.

Clauss, Max O. (See Verran, H. E., and Clauss.)

Clay, Samuel B., assignor of one-half to E. R. Fish, Webster Groves, Mo. Machine for threading bolts and pipes. No. 1,381,542; June 14; v. 287; p. 283.

Clay, Wallace L., U. S. Army. Armor-piercing, spot-light, and incendiary bullet. No. 1,380,773; June 7; v. 287; p. 85.

Clay, Wallace L., Bridesburg, and J. W. Taylor, Frankford, Pa. Fuse. No. 1,380,774; June 7; v. 287; p. 86.

Clayton & Lambert Manufacturing Company. (See Lambert, Charles R., assignor.)

Cleary, Edwin, London, England. Burner for burning oil and other liquid fuel. No. 1,381,080; June 7; v. 287; p. 145.

Clefton, Claud J., assignor, by mesne assignments, of one-half to G. J. Clefton, Owantonna, Minn. Cooker. No. 1,381,800; June 14; v. 287; p. 332.

Clefton, Guy J. (See Clefton, Claud J., assignor.)

Clegg, James W., Oldham, England. Combing-machine. No. 1,382,863; June 28; v. 287; p. 653.

Clemence, Walter. (See Randall, Victor E., assignor.)

Clementson, Johan F. J., Malmo, Sweden. Outboard-motor for boats. No. 1,382,955; June 28; v. 287; p. 665.

Cleveland Tractor Company, The. (See Greiner, Anton F., assignor.)

Cleveland Tractor Company, The. (See Morgan, Mathew B., assignor.)

Clifford, Charles Edwin, and T. J. Mackie, Brampton, Ontario, Canada. Posting ledger-rack. No. 1,380,775; June 7; v. 287; p. 86.

Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Automatic release mechanism for heading and forging machines. No. 1,382,625; June 28; v. 287; p. 601.

Clove, Jacob, Calgary, Alberta, Canada. Traveling threshing-machine. No. 1,380,636; June 7; v. 287; p. 59.

Cluff, Clarence B., Westfield, N. J., assignor to The American Cotton Oil Company, New York, N. Y. Production of catalysts. No. 1,381,969; June 21; v. 287; p. 424.

Coates, Charles B., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Power-hammer. No. 1,382,821; June 28; v. 287; p. 639.

Coats, Edward O., Postoak, assignor of one-half to G. L. Hall, Leeton, Mo. Demountable rim for vehicle-wheels. No. 1,381,168; June 14; v. 287; p. 214.

Cobb, F. Gordon, Greenville, S. C. Dobby-loom. No. 1,383,076; June 28; v. 287; p. 687.

Cobb, Ralph B., River Forest, Ill. Apparatus for handling brick. No. 1,380,776; June 7; v. 287; p. 86.

Cochran, Frederic J., Mount Vernon, Ill. Ball-bearing axle. No. 1,382,064; June 21; v. 287; p. 441.

Cochran, Ralf S. (See Marsh, H. S., and Cochran.) (Reissue.)

Codding, Charles L., Sr., Perth, N. Y. Pump. No. 1,381,801; June 14; v. 287; p. 332.

Codish, George, Brooklyn, N. Y. Armor for pneumatic tires. No. 1,382,474; June 21; v. 287; p. 519.

Cohen, Bertram S., Twickenham, assignor to The Relay Automatic Telephone Company, Limited, Strand, England. Telephone system. No. 1,381,703; June 14; v. 287; p. 314.

Cohoes Envelope Co. (See Kleebauer, Charles P., assignor.)

Cole, Albert E., London, England. Sliding seat for motor-cars and the like. No. 1,383,077; June 28; v. 287; p. 688.

Coleman, Max, Melbourne, Victoria, Australia. Mechanism for automatically operating apparatus at a predetermined time. No. 1,381,543; June 14; v. 287; p. 284.

Coley, W. L., *et al.*, trustees. (See Kerr, Augustus H., assignor.)

Coley, William R. (See Schairer, O. S., and Coley.)

Collier, Barron G., Incorporated. (See Johnston, Richard A., assignor.)

Collins, Albert K., Charlotte, N. C. Coin-controlled operating device for vending-machines and the like. No. 1,382,475; June 21; v. 287; p. 519.

Collins, Clyde R., assignor of one-half to Central Specialty Company, Los Angeles, Calif. Spray-nozzle. No. 1,382,822; June 28; v. 287; p. 639.

Collins, Henry T. (See Tonkin, E. C., and Collins.)

Colmar Burner Co. (See Blanchard, George N., assignor.)

Columbia Graphophone Manufacturing Company. (See Beadle, George W., assignor.)

Comer, Reuben T., Comer, Ga. Stripping mechanism for traveling flats of carding-engines. No. 1,381,970; June 21; v. 287; p. 424.

Commonwealth Steel Company. (See Howard, Karl S., assignor.)

Commonwealth Steel Company. (See Pflager, Harry M., assignor.)

Commonwealth Steel Company. (See Woodard, William E., assignor.)

Compagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)

Conley Foil Company, The. (See Blaetz, Harry M., assignor.)

Conley Foil Co., The. (See Sweeney, Bernard J., assignor.)

Conner, Charles E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Assembling-machine. No. 1,382,762; June 28; v. 287; p. 628.

Conner, Charles E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,382,763; June 28; v. 287; p. 628.

Conner, Edward A., Bridgeport, Conn., assignor to American Chain Company, Inc. Antislipping shoe for horses. No. 1,380,705; June 7; v. 287; p. 72.

Conroy, J. Stanley. (See Mayerson, Abl, assignor.)

Consolidated Dental Manufacturing Company. (See Bishop, Charles B., assignor.)

Constantine, Henry A., Niagara Falls, N. Y. Wet-machine. No. 1,380,637; June 7; v. 287; p. 59.

Conti, Francisco, Buenos Aires, Argentina. Automatic balanced rudder for air, water, and submarine craft. No. 1,382,170; June 21; v. 287; p. 461.

Continental Furniture Manufacturing Company. (See Long, Emil J., assignor.)

Continental Scale Works. (See Weber, Mathias J., assignor.)

Contos, John A., assignor of one-half to Nick Jamson, Grand Island, Nebr. Table for automobile-radiators. No. 1,382,626; June 28; v. 287; p. 602.

Cook, Thomas W., Berkeley, Calif. Dental-floss holder. No. 1,380,530; June 7; v. 287; p. 39.

Cook, William J., Charlotte, N. C. Electric-circuit closer. No. 1,382,476; June 21; v. 287; p. 520.

Cooke, Charles J., Washington, D. C. Non-recoil gun. No. 1,380,358; June 7; v. 287; p. 7.

Coon, Leslie E., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching system. No. 1,381,451; June 14; v. 287; p. 266.

Cooper, Frank, and G. C. Hill, Seattle, Wash. Cotter-pin extractor. No. 1,382,477; June 21; v. 287; p. 520.

Cooper, George E., Nashville, Tenn. Baking-oven. No. 1,383,256; June 28; v. 287; p. 722.

Cooper, Leonard, assignor of one-fourth to T. O. Hickok and one-fourth to F. T. Miller, Syracuse, N. Y. Fuel indicator. No. 1,380,359; June 7; v. 287; p. 7.

Cooper Oven Thermometer Company. (See Whittier, Horace R., assignor.)

Cooper, Robert, London, England. Device for use in disinfecting telephone instruments. No. 1,381,081; June 7; v. 287; p. 146.

Cooper, Simon. (See Baker, F., Jr., and Cooper.)

Cooper, Thomas E., Erie, Pa. Game apparatus. No. 1,381,452; June 14; v. 287; p. 266.

Coopersmith, Rudolph, Montreal, Quebec, Canada, assignor of one-half to A. Ruche, Philadelphia, Pa. Spring-mattress. No. 1,382,344; June 21; v. 287; p. 494.

Copelin, Leonard S., Millers, Nev. Recovering vanadium. No. 1,381,802; June 14; v. 287; p. 333.

Coplay Cement Manufacturing Company. (See Breerwood, Charles H.)

Copley, Almon W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulating system. No. 1,381,283; June 14; v. 287; p. 235.

Copp, Fred M., Kansas City, Mo. Automobile steering-gear. No. 1,381,402; June 14; v. 287; p. 257.

Copper Products Company. (See Merritt, Matthew M., assignor.)

Corbin, Edmund, Chicago, Ill. Drawing implement. No. 1,381,971; June 21; v. 287; p. 424.

Corcos, Joseph. (See Evans, F., and Corcos.)

Corey, Walter. (See McLeod, Kenneth K., assignor.)

Cork, Charles F. (See Remus, W. F., Macredie, and Cork.)

Cornwell, Elmer E., and J. H. McCready, Okmulgee, Okla. Gas-burner. No. 1,382,894; June 28; v. 287; p. 653.

Corporon, George J., Amesbury, Mass. Method and apparatus for blanching peanuts. No. 1,381,082; June 7; v. 287; p. 146.

Corson, William F., Toronto, Ontario, Canada. Machine for printing tubes. No. 1,382,171; June 21; v. 287; p. 461.

Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating-machine. No. 1,380,360; June 7; v. 287; p. 7.

Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. No. 1,380,361; June 7; v. 287; p. 7.

Cosmos, George, St. Louis, Mo. Toilet-powder receptacle and brush. No. 1,380,884; June 7; v. 287; p. 107.

Cote, Thomas F., Winnipeg, Manitoba, Canada. Fuse-plug. No. 1,381,803; June 14; v. 287; p. 333.

Cotton, Charles S., Crafton, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passenger-car construction. No. 1,381,284; June 14; v. 287; p. 235.

Cottrell, James W., Hammonton, N. J. Traction-wheel. No. 1,383,078; June 28; v. 287; p. 688.

Counselman, Theodore B. (See Swart, W. G., Jordan, Davis, and Counselman.)

Courmettes, H. A., New York, and A. B. Cox, Cherry Valley, N. Y. Range-finder. No. 1,381,453; June 14; v. 287; p. 266.

Courtaulds, Limited, *et al.* (See Crewdson, Henry, assignor.)

Coutant, Melvin L., *et al.* (See Carson, Robert H., assignor.)

Cowan, Herbert W., *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)

Cowan, Herbert W., *et al.*, trustees. (See Hennessy, Daniel E., assignor.)

Cox, Abraham B. (See Courmettes, H. A., and Cox.)

Cox Brass Manufacturing Company. (See Cox, Theodore M., assignor.)

Cox, Claude E., Detroit, Mich. Liquid-level indicator. No. 1,381,285; June 14; v. 287; p. 235.

Cox, Claude E., Detroit, Mich. Automatic Oil-Cup. No. 1,382,823; June 28; v. 287; p. 640.

Cox, Dalmar L., Greenville, N. C. Clutch-releasing mechanism for tractors. No. 1,382,478; June 21; v. 287; p. 520.

Cox, Edwin G., Oakland, Calif. Toy vehicle. No. 1,381,403; June 14; v. 287; p. 257.

Cox, John T., assignor to Brown Company, Berlin, N. H. Food fat and finishing the same. No. 1,380,777; June 7; v. 287; p. 86.

Cox, Theodore M., Albany, N. Y. Attaching device for automobile-buffers. No. 1,381,169; June 14; v. 287; p. 214.

Cox, Theodore M., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. No. 1,381,170; June 14; v. 287; p. 215.

Coy, Herbert C., assignor to Vulcan Mfg. Co., Chicago, Ill. Shoe-polishing device. No. 1,383,189; June 28; v. 287; p. 709.

Crago, Felix H., Hot Springs, Mont. Rotary water-motor or pump. No. 1,382,065; June 21; v. 287; p. 441.

Craig, Edward, St. Joseph, Mich. Multiple-head stapling-machine. No. 1,381,617; June 14; v. 287; p. 297.

Craig, Robert, Berkeley, Calif. Portable crane. No. 1,380,779; June 7; v. 287; p. 87.

Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C., assignors to Parks-Cramer Company, Fitchburg, Mass. Apparatus for regulating humidity. No. 1,382,956; June 28; v. 287; p. 665.

Crane, Joshua, *et al.*, trustees. (See Waterhouse, Harold D., assignor.)

Crane, Scott S., *et al.* (See Showalter, Roy C., assignor.)

Crane, Walter S., *et al.*, trustees. (See Waterhouse, Harold D., assignor.)

Craun, William H. (See Gregory, Benjamin F., and Craun.)

Craver, Augustus E. (See Bailey, G. C., and Craver.)

Crawford, Albert G., Iroquois, S. D. Steering device for tractors. No. 1,380,638; June 7; v. 287; p. 59.

Crawford, Charles S., assignor to Premier Motor Corporation, Indianapolis, Ind. Vehicle-wheel. No. 1,381,859; June 14; v. 287; p. 342.

Crawford, Edward E., Bremerton, Wash. Window-stop. No. 1,381,083; June 7; v. 287; p. 146.

Crawford, John A., Philadelphia, Pa. Washing-machine and pump mechanism therefor. No. 1,382,479; June 21; v. 287; p. 520.

Crawford, Samuel T., Washington, D. C. Comb. No. 1,381,804; June 14; v. 287; p. 333.

Creamery Package Manufacturing Company, The. (See Penn, William E., assignor.)

Cressall, Frederick, Newport, Isle of Wight. Contact for thief-alarms or other electrically-operated devices. No. 1,383,079; June 28; v. 287; p. 688.

Cressey, John A., Dallas, Tex. Confection. No. 1,382,601; June 21; v. 287; p. 543.

Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,380,885; June 7; v. 287; p. 108.

Crewdson, Henry, Roanoke, Va., assignor of one-half to Courtaulds, Limited, London, England, and one-half to The Viscose Company, Roanoke, Va. Spinning-box mounting. No. 1,381,805; June 14; v. 287; p. 338.

Criner, Harry J., assignor of one-half to J. M. Robinson and one-half to J. W. Bybee, Moline, Ill. Piston-ring. No. 1,381,544; June 14; v. 287; p. 284.

Crittall, Casement Window Co. (See Walker, Thomas E., assignor.)

Crofut & Knapp Company, The. (See Josephs, Julius, assignor.)

Crooks, James W., Pelham, N. Y. Dish-washing machine. No. 1,382,172; June 21; v. 287; p. 461.

Crossley, Austin A., Luther, Okla. Locking-valve for internal-combustion engines. No. 1,382,480; June 21; v. 287; p. 520.

Crossley, Thomas, Manchester, England. Split collar and pulley. No. 1,382,481; June 21; v. 287; p. 521.

Crouse Hinds Company. (See Bissell, Carl H., assignor.)

Cucinotta, Frank, New York, N. Y. Safety attachment for pocketbooks. No. 1,380,778; June 7; v. 287; p. 86.

Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Wrapping-machine. No. 1,380,531; June 7; v. 287; p. 39.

Cummings, Elmer D., Washington, D. C. Ammunition hoist. No. 1,381,084; June 7; v. 287; p. 146.

Cunningham, Edgar W., New Brunswick, N. J. Universal templet for structural-steel work. No. 1,382,271; June 21; v. 287; p. 480.

Cunningham, Harry G., Los Angeles, Calif. Expanding-claw for moving-picture machines. No. 1,380,532; June 7; v. 287; p. 39.

Cunningham, James O., Indianapolis, Ind. Carbureter. No. 1,382,063; June 21; v. 287; p. 441.

Cunningham, John H., San Francisco, Calif. Printing-press attachment. No. 1,381,806; June 14; v. 287; p. 333.

Cunningham, John J., Manchester, N. H. Covered metal roll. No. 1,381,286; June 14; v. 287; p. 235.

Cunningham, Robert M., Louisville, Ky. Fastening means for flooring and the like. No. 1,380,362; June 7; v. 287; p. 7.

Cureton, Horace A., Los Angeles, Calif. Radiator. No. 1,381,618; June 14; v. 287; p. 297.

Curran, Frank J. M., Grand Rapids, Mich. Refrigerator. No. 1,380,533; June 7; v. 287; p. 39.

Curran, James R., Shenandoah, Iowa. Hog-oiler. No. 1,382,066; June 21; v. 287; p. 442.

Curren, Harold S. (See Hughes, A. H., and Curren.)

Currier, Ernest E., Ipswich, Mass. Auxiliary subduing-reflector for headlights. No. 1,381,404; June 14; v. 287; p. 257.

Curry, Frederick H., assignor to Young Brothers Company, Detroit, Mich. Conveying apparatus for ovens, drying-rooms, and the like. No. 1,382,957; June 28; v. 287; p. 665.

Curry, John W., Cincinnati, Ohio. Traffic-directing apparatus. No. 1,382,482; June 21; v. 287; p. 521.

Curtin, David F., Chicago, Ill. Sanitary cup. No. 1,381,619; June 14; v. 287; p. 297.

Curtiss Aeroplane and Motor Corporation. (See Gilmore, W. L., and Meade, assignors.)

Curtiss Aeroplane and Motor Corporation. (See Roloson, Clayton L., assignor.)

Cushing, Erwin H. (See Offutt, Thomas M., assignor.)

Cuthbertson, Earl L., Alton, Ill. Vehicle direction-signal. No. 1,382,627; June 28; v. 287; p. 602.

Cutler-Hammer Mfg. Co., The. (See Yerger, Charles W., assignor.)

Cutler, William C., North Glendale, Calif. Information device. No. 1,381,860; June 14; v. 287; p. 342.

Cutler, Willis L., Legrand, Iowa. Plastic block structure. No. 1,382,824; June 28; v. 287; p. 640.

Cwirko, Kazimir, New York, N. Y. Dish-washing machine. No. 1,381,107; June 14; v. 287; p. 203.

Czarnowsky, Herbert F., *et al.* (See Stenner, Edgar J., assignor.)

Czerwonka, Joseph, Chicago, Ill. Roundabout. No. 1,382,173; June 21; v. 287; p. 461.

Czieslik, Frank H. (See Smith, Arthur D., assignor.)

Dace, Wilbur M., Rushville, Ill. Rim and tire carrier. No. 1,381,972; June 21; v. 287; p. 424.

Dacus, J. A., *et al.*, trustees. (See Kerr, Augustus H., assignor.)

Daffron, Hencel, and C. C. Pullem, Detroit, Mich. Trolley-head. No. 1,381,807; June 14; v. 287; p. 334.

Dahlstrom, John, Pittsburgh, Pa. Shock-absorber. No. 1,380,780; June 7; v. 287; p. 87.

Dahlstrom, John, Pittsburgh, Pa. Shock-absorber. No. 1,380,781; June 7; v. 287; p. 87.

Dailing, John A., Quincy, Ill., assignor of one-half to A. Badamo. Head-block for hay-balers. No. 1,380,639; June 7; v. 287; p. 59.

Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)

Dalton, Lloyd H., Coffeyville, Kans. Display-holder. No. 1,380,534; June 7; v. 287; p. 40.

Daman, Arthur C. (See Gordon, R. W., and Daman.)

Damm, Edward J. (See Eichelberger, John D., assignor.)

Danberg, Fred W., Toledo, Ohio. Article-delivery mechanism. No. 1,381,287; June 14; v. 287; p. 235.

Dandridge, Edward P., Philadelphia, Pa. Conveying means. No. 1,380,886; June 7; v. 287; p. 108.

Daniel, Albert L. (See Kost, S. A., and Daniel.)

Daniels, Arthur L., Burlington, Vt. Measuring instrument. No. 1,382,628; June 28; v. 287; p. 602.

Daniels, Lee G., Rockford, Ill. Universal joint. No. 1,382,958; June 28; v. 287; p. 665.

Daniels, Veerin B. (See Thomson, A. and Daniels.)
Danne, Harold A., New York, N. Y. Aircraft bombing apparatus. No. 1,383,257; June 28; v. 287; p. 722.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Coating metals. No. 1,381,085; June 7; v. 287; p. 146.
Darden, Louis W., *et al.* (See Francisco, Marshall E., assignor.)
Darling, Samuel M., Washington, D. C. Preparing lignite for fuel. No. 1,382,629; June 28; v. 287; p. 602.
Darrah, William A., Mansfield, Ohio. Crucible and manufacture. No. 1,381,171; June 14; v. 287; p. 215.
Darrin, Marc, Wilkinsburg, Pa., assignor to Koppers Products Company. Linseed-oil substitute. No. 1,382,345; June 21; v. 287; p. 494.
Daughtry, Willie L., Orlando, Fla. Guard-rail chair. No. 1,381,454; June 14; v. 287; p. 267.
Davidson, Samuel C., Belfast, Ireland. Manufacture of rubber. No. 1,380,640; June 7; v. 287; p. 59.
Davidson, Samuel C., Belfast, Ireland. Treatment of rubber latex. No. 1,381,455; June 14; v. 287; p. 267.
Davies, George E. (See Palmer, W. H., and Davies.)
Davis, Abraham, and N. B. Helfman, Minneapolis, Minn. Davenport-bed. No. 1,381,172; June 14; v. 287; p. 215.
Davis, Alex R., Cincinnati, Ohio, assignor to The Eli Lilly and Company, Indianapolis, Ind. Compounds of cinchona alkaloids and 2-phenyl-quinolin-4-carboxylic acid. (Reissue.) No. 15,127; June 21; v. 287; p. 545.
Davis, Charles T., New York, N. Y. Surgical suture. No. 1,382,715; June 28; v. 287; p. 619.
Davis, Donald C., Buffalo, N. Y. Machine for testing the hardness of materials. No. 1,381,288; June 14; v. 287; p. 236.
Davis, Edward H. (See Gleason, William D., assignor.)
Davis, Edward W. (See Swart, W. G., Jordan, Davis, and Counselman.)
Davis, George H. E., Lynn, Mass. Liquid-cooling apparatus. No. 1,380,535; June 7; v. 287; p. 40.
Davis, Helen L., Arlington, N. J. Brush-cleaner for carpet-sweepers. No. 1,381,973; June 21; v. 287; p. 425.
Davis, John E. (See Du Brul, Davila S., assignor.)
Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Truck-tire. No. 1,381,108; June 14; v. 287; p. 203.
Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Resilient tire. No. 1,382,630; June 28; v. 287; p. 602.
Davis, Mansell A., Lapeer, Mich. Vehicle-train. No. 1,381,861; June 14; v. 287; p. 344.
Davis, Martin D., Daleville, Ind. T-square. No. 1,381,808; June 14; v. 287; p. 334.
Davis, Raymond, Washington, D. C. Sensitometer for testing with accuracy the speed, latitude, and color sensitivity of photographic plates and films. No. 1,382,272; June 21; v. 287; p. 480.
Davis, Samuel S., Sidney, Ohio. Boiler. No. 1,380,536; June 7; v. 287; p. 40.
Davis, Walter G., Miami, Fla. Safety automobile-lock. No. 1,380,887; June 7; v. 287; p. 108.
Davis, William W., and W. W. MacDonald, San Francisco, Calif. Grease-cup. No. 1,381,809; June 14; v. 287; p. 334.
Davisson, Ora. (See Boyer, A. B., and Davisson.)
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,382,174; June 21; v. 287; p. 461.
Dawson, William F., Lynn, Mass., assignor to General Electric Company. Apparatus for protecting the field structure and windings of dynamo-electric machines. No. 1,381,086; June 7; v. 287; p. 146.
Day, Herbert O., assignor, by mesne assignments, to Wood-Craft Company, St. Paul, Minn. Coupling for rigidly connecting rear-axle and frame structures of automobiles. No. 1,382,716; June 28; v. 287; p. 619.
Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Tool for applying coating. No. 1,380,866; June 7; v. 287; p. 104.
Dayton, James M., administrator. (See Dayton, William H.)
Dayton, William H., deceased; by J. M. Dayton, administrator, assignor to The Torrington Company, Torrington, Conn. Latch-needle-making machine. No. 1,381,810; June 14; v. 287; p. 334.
Deakin, Gerald, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,381,456; June 14; v. 287; p. 267.
Dean, John S., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Spring tension means for brush-holders. No. 1,381,289; June 14; v. 287; p. 236.
Dean, William W., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Combined transmitter and receiver. No. 1,382,273; June 21; v. 287; p. 480.
Deas, Coon A., assignor to Rock Hill Buggy Company, Rock Hill, S. C. Convertible roadster-body. No. 1,383,262; June 28; v. 287; p. 723.
De Beers, Franklin M., Glencoe, assignor to Swenson Evaporator Company, Chicago, Ill. Fountain. No. 1,382,274; June 21; v. 287; p. 480.
De Bolotoff, Serge V., Roehampton, London, England. Valve. No. 1,380,867; June 7; v. 287; p. 104.
De Cew, Judson A., New York, N. Y., assignor to Process Engineers, Inc. Rosin size solution. No. 1,382,346; June 21; v. 287; p. 494.
Decker, John G., Stroudsburg, Pa. Electric-line-wire insulator. No. 1,382,483; June 21; v. 287; p. 521.
De Clairmont, Adolfo, assignor to The Carbo-Gas Company, Toledo, Ohio. Spark-plug. No. 1,381,167; June 14; v. 287; p. 214.
Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Pump-plunger. No. 1,380,363; June 7; v. 287; p. 8.
Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Pump. No. 1,380,364; June 7; v. 287; p. 8.
Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Steam pumping-engine. No. 1,380,365; June 7; v. 287; p. 8.
De Escobales, Hilarion, Staten Island, assignor to H. Escobales Co., Inc., New York, N. Y. Production of packages. No. 1,381,087; June 7; v. 287; p. 147.
De Escobales, Hilario, assignor to H. Escobales Co., Inc., New York, N. Y. Paper-feeding mechanism. No. 1,383,267; June 28; v. 287; p. 724.
Defiance Machine Works. (See McCarty, William F., assignor.)
De Fortuny y de Carpi, Teotimo, Barcelona, Spain. Construction of portable houses and buildings. No. 1,380,641; June 7; v. 287; p. 60.
De Haven, Benjamin H., Pittsburgh, Pa. Shaving-brush. No. 1,382,347; June 21; v. 287; p. 494.
De Hymel, Leo B., Denver, Colo. Non-skid and traction band for lawn-mower wheels. No. 1,382,067; June 21; v. 287; p. 442.
Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,381,862; June 14; v. 287; p. 344.
Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,382,275; June 21; v. 287; p. 481.
Deister, Emil and W. F., assignors to Deister Machine Company, Fort Wayne, Ind. Supporting mechanism for ore-concentrators. No. 1,382,276; June 21; v. 287; p. 481.
Deister Machine Company. (See Deister, Emil, assignor.)
Deister Machine Company. (See Deister, Emil and W. F., assignors.)
Deister, William F. (See Deister, Emil and W. F.)
De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Electrically-heated incubator. No. 1,381,109; June 14; v. 287; p. 203.
De La Monte, Cascious H., assignor to International Motor Company, New York, N. Y. Drag-link. No. 1,382,175; June 21; v. 287; p. 462.
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
Delco-Light Company. (See Kettering, C. F., and Chryst, assignors.)
Delco-Light Company. (See Kettering, Charles F., assignor.)
Delco-Light Company. (See Midgley, Thomas, Jr., assignor.)
Delcourt, Joseph F., New Bedford, Mass. Clasp. No. 1,382,484; June 21; v. 287; p. 521.
De Lisle, Harold L., Chicago, Ill. Filing-cabinet. No. 1,381,907; June 21; v. 287; p. 413.
Dellert, William J. (See Hines, R. E., Dellert, and Stachle.)
De Lukacsevics, Charles, New York, N. Y. Internal-combustion engine. No. 1,382,485; June 21; v. 287; p. 521.
Demarest, Charles F. (See Toomey, J. F., and Demarest.)
Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Repeater controlling system for four-wire telephone-circuits. No. 1,381,545; June 14; v. 287; p. 284.
Demarest, Charles S., Brooklyn, and S. P. Shackleton, New York, N. Y., assignors to American Telephone and Telegraph Company. Repeater-circuits. No. 1,382,631; June 28; v. 287; p. 603.
Demas, Demetreos J., Pittsburgh, Pa. Tire. No. 1,383,190; June 28; v. 287; p. 709.
Demorest, Edmurn L., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Tractor-cleat. No. 1,380,366; June 7; v. 287; p. 8.
Denman, Walter R., Cleveland, Ohio. Core for use in curing pneumatic tires. No. 1,380,537; June 7; v. 287; p. 40.
Denne, Mark T., Rushden, England. Wire-feed mechanism of screwing-machines. No. 1,380,538; June 7; v. 287; p. 41.
Denne, Mark T., Rushden, England. Work-feed mechanism of sewing-machines. No. 1,380,888; June 7; v. 287; p. 108.
Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,382,764; June 28; v. 287; p. 628.
Deno, Fred J., and J. Martin, Fowler, Ind. Hog-chute. No. 1,383,080; June 28; v. 287; p. 688.
Denton, George W., South Bend, Ind. Journal-bearing. No. 1,381,811; June 14; v. 287; p. 334.
De Ram, Georges, Paris, France. Photographic apparatus. No. 1,382,486; June 21; v. 287; p. 522.
Derringer, Maurice H., Philadelphia, Pa. Tool-holder. No. 1,381,457; June 14; v. 287; p. 267.

De Simone, Michele G., Staten Island, assignor to V. Lambert, Brooklyn, N. Y. Coring-machine. No. 1,382,632; June 28; v. 287; p. 603.
Det Norske Aktieselskab for Elektrokemisk Industri. (See Sem, Mathius O., assignor.)
Det Norske Aktieselskab for elektrokemisk Industri, Norsk Industri-Hypotekbank. (See Goldschmidt, Victor M., assignor.)
Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
De Urrela, Francisco, Madrid, Spain. Means for absorbing the reactions of the suspension in motor-cars and engines of all kinds. No. 1,381,621; June 14; v. 287; p. 297.
Deuchler, John C., Tiffin, Ohio. Nut-lock. No. 1,382,959; June 28; v. 287; p. 666.
Deutsche Lichtbild-Gesellschaft E. V. (See Schulze, Arthur, assignor.)
De Vito, John A., West Medford, Mass. Cleaning device. No. 1,382,633; June 28; v. 287; p. 603.
De Vry Corporation, The. (See De Vry, Herman A., assignor.)
De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Motion-picture machine. No. 1,382,277; June 21; v. 287; p. 481.
Dewar, James, Los Angeles, Calif. Auto direction-signal. No. 1,380,546; June 7; v. 287; p. 42.
Dewees, James R., Bancroft, W. Va. Beehive. No. 1,382,068; June 21; v. 287; p. 442.
Dexter Folder Company. (See Breen, Thomas E., assignor.)
Dexter Folder Company. (See Christophal, Carl E., assignor.)
Dey, Harry E., Jersey City, N. J. Control for electric motors. No. 1,383,081; June 28; v. 287; p. 688.
Diadul, Richard A., Jr., Chicago, Ill. Orthopedic appliance. No. 1,381,290; June 14; v. 287; p. 236.
Diamond Expansion Bolt Company. (See Hiss, William J., assignor.)
Diebold Safe & Lock Company, The. (See Scott, Alexander N., assignor.)
Dietz, William. (See Ryder, Charles W., assignor.)
Diez, Conrad J. (See Menshaw, T. H., and Diez.)
Diffenderffer, John K. E., Baltimore, Md. Bottle-capping tool. No. 1,381,622; June 14; v. 287; p. 297.
Dillingham, Frederick A., assignor to The Troy Carriage Sun Shade Company, Troy, Ohio. Windshield. No. 1,383,191; June 28; v. 287; p. 709.
Dinick, Lillie C., Fort Wayne, Ind. Cabinet. No. 1,380,539; June 7; v. 287; p. 41.
Diskin, Moses B., New York, N. Y. Tape-applying machine. No. 1,380,540; June 7; v. 287; p. 41.
Dixon, Israel K., Johnstown, Pa. Spring-switch. No. 1,382,960; June 28; v. 287; p. 666.
Dixon, Marie, Neutral Bay, near Sydney, New South Wales, Australia. Self-cooling safe for viands. No. 1,381,064; June 7; v. 287; p. 142.
Dixon, Thomas J., Madison, Wis. Pen or pencil holding device. No. 1,382,487; June 21; v. 287; p. 522.
Dixon, Walter G., assignor to The Sharples Separator Co., West Chester, Pa. Emulsifier. No. 1,382,765; June 28; v. 287; p. 629.
Dobson, Joseph, Sheffield, England. Grinding-wheel dresser. No. 1,382,176; June 21; v. 287; p. 462.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,380,541; June 7; v. 287; p. 41.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Means for displaying illuminated words or characters. No. 1,383,082; June 28; v. 287; p. 689.
Dodds, Ethan I., and B. E. D. Stafford, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,383,083; June 28; v. 287; p. 689.
Dodds, Ethan I., and F. K. Landgraf, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,383,084; June 28; v. 287; p. 689.
Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Truck side frame. No. 1,380,782; June 7; v. 287; p. 87.
Doherty, Henry L. (See Laird, Wilbur G., assignor.)
Doherty, Henry L., New York, N. Y. Ventilation. No. 1,382,961; June 28; v. 287; p. 666.
Dolbear, Clinton E., assignor to Industrial Research Co., San Francisco, Calif. Separation of borax from potassium salts. No. 1,382,825; June 28; v. 287; p. 640.
Doll, Louis, Los Angeles, Calif. Automobile-seat cushion. No. 1,382,596; June 21; v. 287; p. 543.
Dominguez, Salvador, Mexico, Mexico. Automobile-wheel. No. 1,383,085; June 28; v. 287; p. 689.
Domizi, David F., Cleveland, Ohio. Drying-oven. No. 1,381,974; June 21; v. 287; p. 425.
Donaldson, William H. (See Brouhard, R. W., and Donaldson.)
Donnelly, John E., Branford, and A. J. Grieser, New Haven, Conn. Pipe-cutter. No. 1,380,948; June 7; v. 287; p. 119.
Donnelly, William J., Stockton, Calif. Folding shipping-crate. No. 1,382,488; June 21; v. 287; p. 522.
Dorel, Jean, Ville d' Avray, France. Hand inking-roller for inking clichés. No. 1,380,467; June 7; v. 287; p. 27.
Dorrida, William F., assignor of one-half to C. S. Sutherland, Baltimore, Md. Direction-indicator. No. 1,383,192; June 28; v. 287; p. 709.
Dorris, John E., Buffalo, N. Y. Bubble-pipe. No. 1,381,458; June 14; v. 287; p. 267.
Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Ignition system. No. 1,382,414; June 21; v. 287; p. 507.
Dorsey, John W., Winnipeg, Manitoba, Canada. Party-line lockout for telephone systems. No. 1,382,766; June 28; v. 287; p. 629.
D'Orville, Theodore L. R., Sewickley, assignor to Standard Steel Spring Company, Coraopolis, Pa. Leaf-spring and making the same. No. 1,381,014; June 7; v. 287; p. 133.
Dotzer, Hugo, and S. G. Barnard, Seattle, Wash. Piston. No. 1,382,895; June 28; v. 287; p. 653.
Dotzer, Hugo. (See Barnard, Samuel G., assignor.)
Dougherty, Thomas, Minneapolis, Minn. Rail-joint. No. 1,383,086; June 28; v. 287; p. 689.
Douglas, James W., *et al.* (See Jackson, Richard, Jr., assignor.)
Dove, Bascom A., Dallas, Tex. Lock and key. No. 1,382,826; June 28; v. 287; p. 640.
Downer, Fred O., Battle Creek, Mich., assignor to Shirley Brothers Company, Incorporated, Indianapolis, Ind. Burial-casket. No. 1,381,908; June 21; v. 287; p. 413.
Downs, George F., Buffalo, N. Y. Rotary furnace or kiln. No. 1,381,096; June 7; v. 287; p. 148.
Dowse, Richard, Chicago, Ill. Clothes-wringer attachment for bathtubs. No. 1,382,415; June 21; v. 287; p. 508.
Doyle, James S. (See Hedley, F., and Doyle.)
Drake, W. L. (See Shevlin, Miles, assignor.)
Drake, Warren C., *et al.* (See Schmidt, Herman, assignor.)
Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Removable closure for metallic containers. No. 1,381,704; June 14; v. 287; p. 314.
Draper Corporation. (See Stimpson, Edward S., assignor.)
Draper Manufacturing Company, The. See Draper, Charles T., assignor.)
Dresser, Frank G., Providence, R. I. Rat-trap. No. 1,382,416; June 21; v. 287; p. 508.
Drew, Fred, *et al.* (See Poole, John H., assignor.)
Drew, Herbert H., Waterloo, Wis. Coupling. No. 1,380,468; June 7; v. 287; p. 27.
Drewes, Johannes, Gideon, Netherlands. Punching-machine. No. 1,380,542; June 7; v. 287; p. 41.
Drgac, Charles, Port Lavaca, Tex. Sorghum-cutter. No. 1,381,065; June 7; v. 287; p. 143.
Droitcour, Michael A., Delphos, Ohio. Printing-press. No. 1,380,469; June 7; v. 287; p. 27.
Dubilier, Philip. (See Dubilier, William and P.)
Dubilier, William and P., New York, N. Y., assignors to Sperry Gyroscope Company. Radiosignaling apparatus. No. 1,382,177; June 21; v. 287; p. 462.
Du Brul, Davila S., Cincinnati, assignor to J. E. Davis, Columbus, Ohio. Wrapper-sealing machine. No. 1,380,543; June 7; v. 287; p. 42.
Duff, John G. (See Hodge, H. D., and Duff.)
Duffy, Thomas L., assignor to W. S. Burgess, Chicago, Ill. Spring suspension for vehicles. No. 1,381,623; June 14; v. 287; p. 298.
Du Frane, John L., Oakland, Calif. Vehicle-signal. No. 1,382,767; June 28; v. 287; p. 629.
Duncan, John N., assignor to himself, A. F. Brannberg, and J. C. Flannery, Boone, Iowa. Sleet-hammer. No. 1,380,544; June 7; v. 287; p. 42.
Dunham, Charles W., Fairmont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,380,783; June 7; v. 287; p. 88.
Dunham, Charles W., Fairmont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,380,784; June 7; v. 287; p. 88.
Dunham, Forrest T., Hoquiam, Wash. Shackle-hook. No. 1,381,405; June 14; v. 287; p. 257.
Dunham, James W., Burnaby, British Columbia, Canada. Ground-sluicing apparatus. No. 1,380,642; June 7; v. 287; p. 60.
Dunham, William R., Jr. (See Lundie, John, assignor.)
Dultmeier, Frank J., Manning, Iowa. Collapsible shipping-crate. No. 1,382,178; June 21; v. 287; p. 462.
Dumais, McKenzie, Hull, Quebec, Canada. Identifying means. No. 1,381,975; June 21; v. 287; p. 425.
Dundon, Jess W. (See Throop, G. W., and Dundon.)
Dunhill, Alfred, London, England. Apparatus for seasoning and finishing tobacco-pipes. No. 1,383,193; June 28; v. 287; p. 710.
Dunn, Christopher W., Milwaukee, Wis. Locking device for automobiles. No. 1,382,179; June 21; v. 287; p. 462.
Dunn, Felix E., Nanton, assignor of one-half to J. A. Nesbitt, Calgary, and one-half to S. B. Mitchell, Nanton, Alberta, Canada. Attachment for engines. No. 1,383,087; June 28; v. 287; p. 690.
Dunn, William B., Detroit, Mich. Brake-band construction. No. 1,381,976; June 21; v. 287; p. 425.
Duplessie, Joseph, Providence, R. I. Measuring device. No. 1,382,717; June 28; v. 287; p. 620.
Du Pont, E. I., de Nemours & Company. (See Andreau, Roland L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Bartleson, Thomas L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Priest, George W., assignor.)
Du Pont, E. I., de Nemours and Co. (See Woodbury, Clifford A., assignor.)

Du Pont, Eleuthere P., Montchanin, Del. Machine for packing fuses. No. 1,381,909; June 21; v. 287; p. 413.
Durand, Marc. (See Roudil, G., and Durand.)
Duveau, Gaston. (See Trouilhet, L., and Duveau.)
Dwork, Joseph H., Newark, N. J. Inlaid-tread tire. No. 1,381,173; June 14; v. 287; p. 215.
Dworski, Bill. (See Hawresch, S., Rock, and Dworski.)
Dwyer, Leo T., assignor to Sexton Mfg. Co., Fairfield, Ill. Union-garment. No. 1,381,066; June 7; v. 287; p. 143.
Dyblie, Julius A., Joliet, Ill. Slotting-machine for splice-bars. No. 1,381,110; June 14; v. 287; p. 203.
Dybowski, Stanley, deceased, by J. Nawacka, administratrix, Rockford, Ill. Animal-trap. No. 1,380,785; June 7; v. 287; p. 88.
Dyer, Frank L. (See Hopkins, Marcus C., assignor.)
Dygert, Charles B., Ilion, assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Firearm. No. 1,381,291; June 14; v. 287; p. 236.
Dziambor, Wilhelm G. H., assignor to Firm Simplo Fullfeder Gesellschaft Voss, Lausen & Dziambor Fabrik fur Fullfederhalter und Goldfedern, Hamburg, Germany. Filling-bottle for fountain-pens. No. 1,381,546; June 14; v. 287; p. 546.
Eagle, Samuel, Gilbert Plains, Manitoba, Canada. Wrench. No. 1,380,643; June 7; v. 287; p. 60.
Earl, Schuyler H. (See Stewart, A. L., Bullock, and Earl.)
Earle Hardware Manufacturing Co. (See Earle, William K., assignor.)
Earle, William K., Ocean Park, Calif., assignor to Earle Hardware Manufacturing Co. Handle and latch operating device. No. 1,383,088; June 28; v. 287; p. 690.
Eastern States Package Co. (See Holland, Lyle H., assignor.)
Eastly, Henry D., Kennebec, S. D. Trace-carrier. No. 1,381,812; June 14; v. 287; p. 335.
Eastman Kodak Company. (See Kroedel, Robert, assignor.)
Eastman, Oliver D., and W. M. Gregg, Muskegon, Mich. Dirigible lighting mechanism. No. 1,380,367; June 7; v. 287; p. 8.
Eckart, Charles F., Honolulu, Hawaii. Method and means for enhancing the growth of plants. No. 1,382,069; June 21; v. 287; p. 442.
Eclipse Manufacturing Company. (See Thomas, Herbert, assignor.)
Edeburn, Alfred N., Cleveland, Ohio. Centrifugal switch. No. 1,380,706; June 7; v. 287; p. 72.
Edgerly, John A., Boston, assignor of one-half to M. Edgerly, Brookline, Mass. Latch for doors. No. 1,380,545; June 7; v. 287; p. 42.
Edgerly, Matthew. (See Edgerly, John A., assignor.)
Edgewater Steel Company. (See Bell, Frank B., assignor.)
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Edmundson, Millard, San Francisco, Calif. Typewriter device. No. 1,382,417; June 21; v. 287; p. 508.
Edwards Manufacturing Company, The. (See Brown, Silas B., assignor.)
Efficient Gas Power Company, The. (See Franklin, Joseph, assignor.)
Efficient Gas Power Company, Limited, The. (See Phillips, Stanley, assignor.)
Egerton, Henry C., Ridgewood, N. J. Automobile-tire. No. 1,382,718; June 28; v. 287; p. 620.
Eguchi, Iwao, Tokyo, Japan. Water-pillow. No. 1,381,067; June 7; v. 287; p. 143.
Ehret, Cornelius D. (See McCaa, David G., assignor.)
Ehrlich, Albert H., St. Joseph, Mo. Hinge. No. 1,382,962; June 28; v. 287; p. 666.
Eichelberger, John D., assignor of one-fourth to E. J. Damm, St. Louis, Mo. Ironing-board. No. 1,381,068; June 7; v. 287; p. 143.
Eichensehr, George C., and J. E. Niesner, Johnstown, Pa. Rail-fastener. No. 1,383,089; June 28; v. 287; p. 690.
Eidmann, Frank L., assignor to E. N. White, J. L. Wyckoff, and G. F. Jenks, trustees, Holyoke, Mass. Coupling device for trucks. No. 1,382,896; June 28; v. 287; p. 653.
Eisele, Otto J., New York, N. Y. Vehicle-tire. No. 1,380,786; June 7; v. 287; p. 88.
Eisenmann, Carl W., Nebraska City, Nebr. Magnetic compass. No. 1,380,949; June 7; v. 287; p. 120.
Eisenstadt Manufacturing Company. (See Sabourin, Jean B., assignor.)
Eisenstadt Manufacturing Company. (See Wallenthin, Walfrid, assignor.)
Electric Phonograph Corporation. (See Thorpe, Walter W., assignor.)
Electric Vaporizing Nozzle Company, The. (See Griffin, Archibald W., assignor.)
Electrical Engineers Equipment Company. See Getts, Frank E., assignor.)
Electrical Engineers' Equipment Company. (See Jacobs, Ernest H., assignor.)
Electrothermal Company. (See Homan, John G., assignor.)
Elenga, Lammert, Sterling, Nebr. Window-frame. No. 1,382,348; June 21; v. 287; p. 495.
Elevator Safety Appliance Company. (See Brush, Frederick F., assignor.)
Eli Lilly and Company, The. (See Davis, Alex B., assignor.) (Reissue.)
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott, Irving H., New York, assignor to H. E. Campbell, Mount Vernon, N. Y. Sill for metal window-frames. No. 1,382,719; June 28; v. 287; p. 620.
Ellington, Aaron D., Springfield, Ill. Pulsator for milking-machines. No. 1,381,111; June 14; v. 287; p. 203.
Ellis, Carleton, Montclair, and H. M. Weber, Bloomfield, N. J., assignor to Ellis-Foster Company. Making artificial resins. No. 1,381,863; June 14; v. 287; p. 344.
Ellis, Carleton, Montclair, N. J. Cereal food and making same. No. 1,382,963; June 28; v. 287; p. 666.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Co. Non-dusting cement concrete floor or like article. No. 1,383,268; June 28; v. 287; p. 724.
Ellis-Foster Co. (See Ellis, Carleton, assignor.)
Ellis-Foster Company. (See Ellis, C., and Weber, assignors.)
Ellis Resilient Wheel Corporation. (See Romney, Richard R., assignor.)
Elmauer, Josef, assignor to Refrigo Corporation, Milwaukee, Wis. Automatic expansion-valve for refrigerating systems. No. 1,380,787; June 7; v. 287; p. 88.
Elvin, Albert G., Plandome, and A. B. Fahnestock, Great Neck, N. Y., assignors to Elvin Mechanical Stoker Company, Dover, Del. Mechanical stoker. No. 1,381,977; June 21; v. 287; p. 425.
Elvin Mechanical Stoker Company. (See Elvin, A. G., and Fahnestock, assignors.)
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
Emery, Elias J., Lynn, Mass. Sole-tap for boots and shoes. No. 1,382,180; June 21; v. 287; p. 462.
Emery, James H., New York, N. Y. Gyrating machine. No. 1,382,181; June 21; v. 287; p. 463.
Emig, Walter R., assignor of one-half to H. S. Bergen, Toledo, Ohio. Rust-proofing composition. No. 1,381,112; June 14; v. 287; p. 204.
Enard, Hans, assignor of one-half to W. J. Heyl, Pittsburgh, Pa. Variable-speed power-transmitting mechanism. No. 1,380,868; June 7; v. 287; p. 104.
Engebretsen, Alf, assignor to J. Rose, Chicago, Ill. Carrier-selecting device for pneumatic-despatch-tube apparatus. No. 1,383,194; June 28; v. 287; p. 710.
Engel, Lewis A., *et al.* (See Stenner, Edgar J., assignor.)
Engevik, Bessie K., Tacoma, Wash. Mattress-turner. No. 1,381,813; June 14; v. 287; p. 335.
English, Fred S., assignor to The Babcock Printing Press Manufacturing Company, New London, Conn. Device for holding printing-press cutter-shafts. No. 1,380,644; June 7; v. 287; p. 60.
Enos, Ernest, Tampa, Fla. Resilient metal tire. No. 1,381,069; June 7; v. 287; p. 143.
Ensink, Klaas, Hilversum, Netherlands. Locking device for autoclaves. No. 1,382,489; June 21; v. 287; p. 522.
Ensminger, George C., Cutler, Calif. Combined key and bolt lock. No. 1,381,547; June 14; v. 287; p. 284.
Enterprize Foundry Company. (See Lougheed, Victor, assignor.)
Erickson, Daniel E., Mamaroneck, assignor to Todd Shipyards Corporation, New York, N. Y. Liquid-fuel burner. No. 1,381,459; June 14; v. 287; p. 267.
Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Channel-flap-turning machine. No. 1,381,174; June 14; v. 287; p. 215.
Erickson, John, assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. No. 1,382,490; June 21; v. 287; p. 522.
Ericsson, Herman C., U. S. Army. Antiexplosive and noninflammable gasolene-tank. No. 1,381,175; June 14; v. 287; p. 216.
Ericsson, Oscar. (See Hestehave, Rasmus P., assignor.)
Erikson, Leonard, Malden, Mass. Showcase-reflector. No. 1,380,368; June 7; v. 287; p. 9.
Esche, Robert, Milwaukee, Wis. Linings for grain spouts and chutes. No. 1,382,897; June 28; v. 287; p. 653.
Escobales, H., Co. (See de Escobales, H., assignor.)
Escobales, H., Co. (See De Escobales, Hilarion, assignor.)
Eskil, William A., Corona, N. Y. Valve-tool. No. 1,382,491; June 21; v. 287; p. 523.
Essex Motors. (See Fekete, Stephen I., assignor.)
Estabrook, Charles E., Springport, Ind. Railway-tie and rail-fastener. No. 1,382,182; June 21; v. 287; p. 463.
Etheridge, Herbert, Ealing, assignor to The Bar-Lock Typewriter Company, Limited, London, England. Type-bar mechanism. No. 1,380,788; June 7; v. 287; p. 89.
Etheridge, Herbert, Ealing, assignor to The Bar-Lock Typewriter Company, Limited, London, England. Typewriter with detachable platen-carriages. No. 1,382,349; June 21; v. 287; p. 495.
Evans, Fred, Summit, N. J., and J. Corcos, New York, N. Y., assignors to International Gas Recorder Manufacturing Company, Newark, N. J. Filling apparatus for liquid-fuel tanks and the like. No. 1,381,864; June 14; v. 287; p. 344
Evans, Lafayette, Portsmouth, Ohio. Wrench. No. 1,382,492; June 21; v. 287; p. 523.
Evers, A. J., and H. J. Sauvage, assignors to W. C. Ritchie & Company, Chicago, Ill. Box-slide-making machine. No. 1,381,176; June 14; v. 287; p. 216.
Excelsior Steel Furnace Company. (See Scherer, Albert G., assignor.)
Exolon Company, The. (See Schabacker, Henry E., assignor.)
Fabart Instrument Company. (See Swanberg, Julius, assignor.)

Fahnestock, Adam B. (See Elvin, A. G., and Fahnestock.)
Fair, Ralph E. (See Zilen, V. W., and Fair.)
Farkas, William, New York, and C. Grebenstein, Brooklyn, N. Y. Book-indexing machine. No. 1,381,814; June 14; v. 287; p. 335.
Farley, John W., Cleveland, Ohio. Combined bracket and hanger for radiators. No. 1,382,418; June 21; v. 287; p. 508.
Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Internal-drive rear axle. No. 1,380,547; June 7; v. 287; p. 42.
Farries, Charles S., De Land, Fla. Light-support. No. 1,380,889; June 7; v. 287; p. 108.
Fasel, Charles, and W. W. Garland, Butte, Mont. Suit-case. No. 1,382,964; June 28; v. 287; p. 666.
Fate, Daisy L., executrix. (See Fate, John L.)
Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Dispensing cool drinking-water. No. 1,382,070; June 21; v. 287; p. 443.
Faust, John H. (See Hartmann, Carl, assignor.)
Favary, Ethelbert, New York, N. Y. Spring suspension. No. 1,381,624; June 14; v. 287; p. 208.
Fawcett, J. W., *et al.* (See Hotchkiss, Raymond H., assignor.)
Fay, Richard D., Nahant, assignor to Hammond V. Hayes, Boston, Mass. Submarine signaling. No. 1,380,869; June 7; v. 287; p. 105.
Federal Rubber Company, The. (See Pratt, Benjamin H., assignor.) (Reissue.)
Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
Fedotoff, Nicholas V., Brooklyn, N. Y. High-tension-rectifying apparatus. No. 1,382,965; June 28; v. 287; p. 667.
Fehrm, Victor F., Chicago, Ill. Saw-mounting. No. 1,380,707; June 7; v. 287; p. 73.
Feist, Charles M., Sioux City, Iowa. Self-lubricating axle. No. 1,383,090; June 28; v. 287; p. 690.
Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Transmission-lock. No. 1,382,183; June 21; v. 287; p. 463.
Fenlason, Orin C., Portland, Oreg. Folding loose-bottom box. No. 1,381,978; June 21; v. 287; p. 426.
Fenlason, Orin C., Portland, Oreg. Wood and tin bound basket. No. 1,381,979; June 21; v. 287; p. 426.
Fenley, Robert H., Fort Worth, Tex. Puncture-proof auto-tire. No. 1,381,815; June 14; v. 287; p. 335.
Ferguson, George, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making turn-shoes. No. 1,381,910; June 21; v. 287; p. 413.
Ferguson, George, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rubber sole for boots and shoes. No. 1,382,768; June 28; v. 287; p. 629.
Ferguson, George J., St. Louis, Mo. Fluid-pressure generator with automatic air-compressor. No. 1,382,769; June 28; v. 287; p. 629.
Fernandez, Victor G., New York, N. Y. Two-in-one garbage-can. No. 1,382,634; June 28; v. 287; p. 603.
Fernside, George W., Hartford, Conn., Grinder for lawn-mowers. No. 1,383,091; June 28; v. 287; p. 691.
Ferr, Henry, Mason City, Iowa. Window. No. 1,381,070; June 7; v. 287; p. 144.
Ferris, Fred H., Wilmington, Del. Modulator. No. 1,382,493; June 21; v. 287; p. 523.
Fessenden, Reginald A., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Destroying enemy gun positions. No. 1,383,219; June 28; v. 287; p. 711.
Fibreboard Company. (See Clapp, Albert L., assignor.)
Fiebiger, John H., West New York, N. J. Composition for dyeing animal fiber. No. 1,383,092; June 28; v. 287; p. 691.
Field, Millard F., Winthrop; C. D. Lanning, E. F. Hathaway, Boston, Mass., and F. C. Blanchard, Fort Wayne, Ind., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Machine for operating upon warp-threads. No. 1,373,195; June 28; v. 287; p. 710.
Field, Samuel, assignor to The Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,382,494; June 21; v. 287; p. 523.
Fielding, John, Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Safety-catch. No. 1,382,635; June 28; v. 287; p. 603.
Fielding, John, Providence, R. I. Pin-catch. No. 1,382,966; June 28; v. 287; p. 667.
Fields, Edgar C., Lyons, Ind. Rail-joint. No. 1,380,369; June 7; v. 287; p. 9.
Flenberg, Nathan, Bondi, near Sydney, and W. L. Wakeham, Five Dock, near Sydney, New South Wales, Australia. Electric-lock strike. No. 1,383,269; June 28; v. 287; p. 724.
Flenup, Henry F., Wellston, Mo. Automobile-lifting device. No. 1,380,548; June 7; v. 287; p. 42.
Finberg, David H., St. Louis, Mo. Shoe-heel. No. 1,381,980; June 21; v. 287 p. 426.
Finch, Clifford L., Minneapolis, Minn. Signal-operator for spreading rails. No. 1,383,093; June 28; v. 287; p. 691.
Finch, Clifton R., New York, N. Y. Furnace-brick. No. 1,381,625; June 14; v. 287; p. 298.
Findley, William A., San Francisco, Calif. Turning and beading tool. No. 1,381,406; June 14; v. 287; p. 258.
Fink, William B. (See Bourdeau, J. D., and Fink.)
Finkl, William F., Chicago, Ill. Process and apparatus for determining the amount of carbon in ferrous metal. No. 1,382,072; June 21; v. 287; p. 443.
Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)
Firestone Tire and Rubber Company, The. (See McGuire, Lee R., assignor.)
First, Carl O., Meadville, Pa. Car-fender. No. 1,383,196; June 28; v. 287; p. 710.
Fischedick, Oscar F., and A. W. Krahn, Milwaukee, Wis. Washing-machine. No. 1,382,636; June 28; v. 287; p. 604.
Fischer, A. T. (See Horr, John V., assignor.)
Fischer, Howard L., St. Paul, Minn. Pencil. No. 1,381,981; June 21; v. 287; p. 426.
Fish, Edward R. (See Clay, Samuel B., assignor.)
Fisher Body Corporation, The. (See Allmand, John T., assignor.)
Fisher Body Corporation. (See Simpson, Emory G., assignor.)
Fisher, George F., Providence, R. I., assignor to The Revere Rubber Company. Rim-finishing machine. No. 1,381,177; June 14; v. 287; p. 216.
Fisher, Harry E., Mifflin township, Franklin county, Ohio. Mold for rubber tires and tubes. Io. 1,380,645; June 7; v. 287; p. 60.
Fisk Rubber Company, The. (See Midgley, Thomas, Sr., assignor.)
Fitzgerald, Fred. (See Jewett, C. E., and Fitzgerald.)
Fitzgerald, Leo F., Oilfields, Calif. Shock-absorber. No. 1,383,094; June 28; v. 287; p. 691.
Fix, Frank, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive. No. 1,283,898; June 28; v. 287; p. 654.
Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for manufacturing conical rollers of exact dimensions. No. 1,380,370; June 7; v. 287; p. 9.
Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bearing for loose pulleys. No. 1,381,178; June 14; v. 287; p. 216.
Flannery Bolt Company. (See Dodds, E. I., and Landgraf, assignors.)
Flannery Bolt Company. (See Dodds, E. I., and Stafford, assignors.)
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flannery, Catherine, Hornell, N. Y. Bottle-holder. No. 1,381,071; June 7; v. 287; p. 144.
Flannery, J. C., *et al.* (See Duncan, John N., assignor.)
Fleming, Ambrose, Alexandria, Va. Pencil and pen holder. No. 1,382,071; June 21; v. 287; p. 443.
Fleming, Paul E., Chicago, Ill. Card-spreading device. No. 1,380,371; June 7; v. 287; p. 9.
Fletcher, John R., Dayton, Ohio. Bed-warmer. No. 1,383,197; June 28; v. 287; p. 711.
Fleuss, Henry A., Thatcham, assignor to The Pulsometer Engineering Company, Limited, Reading, England. Pump for exhausting air and gases. No. 1,382,164; June 21; v. 287; p. 463.
Flexible Steel Lacing Company. (See Purple, George E., assignor.)
Floeter, Frederick S., Saginaw, Mich. Clutch. No. 1,380,789; June 7; v. 287; p. 89.
Flood, John R., assignor of one-half to T. L. Moore and W. Sheller, Everett, Wash. Hose-reel. No. 1,380,549; June 7; v. 287; p. 43.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side-frame arrangement. No. 1,381,113; June 14; v. 287; p. 204.
Flynn, Charles E., De Beque, Colo. Toy moving-picture machine. No. 1,383,095; June 28; v. 287; p. 691.
Flynn, Cornelius O., Duluth, Minn. Navigable-vessel lock. No. 1,381,407; June 14; v. 287; p. 258.
Foans, Andrew B., New York, N. Y. Wheel toy. No. 1,382,967; June 28; v. 287; p. 667.
Fondren, Walter W., Houston, Tex. Packer for wells. No. 1,382,770; June 28; v. 287; p. 630.
Foote, John B., Oak Park, Ill. Variable-speed-transmission gearing. No. 1,382,278; June 21; v. 287; p. 481.
Foote, John B., Oak Park, Ill. Tractor. No. 1,382,279; June 21; v. 287; p. 482.
Foote, John B., Oak Park, Ill. Motor-driven vehicle. No. 1,382,280; June 21; v. 287; p. 482.
Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Typewriting-machine. No. 1,383,096; June 28; v. 287; p. 691.
Ford, Charles F., Chicago, Ill. Ball-bearing-locking device. No. 1,380,708; June 7; v. 287; p. 73.
Ford, Julius C., Summit, Miss. Seed thresbing and collecting machine. No. 1,380,470; June 7; v. 287; p. 28.
Ford Ralph L., Chicago, Ill., assignor to International Harvester Company. Valve and trip-lock for planters. No. 1,382,771; June 28; v. 287; p. 630.
Ford, Silas R. (See Wulff, Henry, assignor.)
Fornwalt, Franklin E., Harrisburg, Pa. Painting device. No. 1,380,950; June 7; v. 287; p. 120.
Forsee, William C., Kansas City, Mo. Washing-machine. No. 1,381,982; June 21; v. 287; p. 427.
Forsyth, George H., Chicago, Ill. Sash construction. No. 1,380,372; June 7; v. 287; p. 9.
Forsyth, Joseph E., Chicago, Ill. Train-pipe coupling. No. 1,381,865; June 14; v. 287; p. 344.
Fort, Louis, Jersey City, N. J. Submergible vessel. No. 1,382,073; June 21; v. 287; p. 443.

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for electrolytic condensers. No. 1,382,899; June 28; v. 287; p. 654.

Foster, George E., Belleville, Ontario, Canada. Rolling-mill. No. 1,382,827; June 28; v. 287; p. 640.

Foundation Oven Corporation. (See Schrader, L. F., Roberts, and Bredlik, assignors.)

Fountain, Joseph B., and J. B. Parker, Lakeland, Fla. Emergency-air-brake attachment. No. 1,382,900; June 28; v. 287; p. 654.

Fournier, Ernest, and T. Testu, Nice, France. Block-signaling apparatus for railways. No. 1,380,890; June 7; v. 287; p. 108.

Fowler, George S., Joplin, Mo. Piston for internal-combustion engines. No. 1,381,408; June 14; v. 287; p. 258.

Fowles, Alfred T., Dallas, Tex. Water-heater. No. 1,382,495; June 21; v. 287; p. 523.

Fowles, Alfred T., Dallas, Tex. Attaching-ring. No 1,382,496; June 21; v. 287; p. 524.

Fox, Joseph P., St. Cloud, Minn. Sign. No. 1,381,983; June 21; v. 287; p. 427.

Fox, William R., and A. A. Riddell, Jackson, Mich.; said Riddell assignor to said Fox. Flexible shaft-coupling. No. 1,382,720; June 28; v. 287; p. 620.

Francisco, Marshall E., assignor, by mesne assignments, of one-half to L. W. Darden and A. O. Wilson, Fresno, Calif. Draft-deflector for motor-vehicles. No. 1,380,471; June 7; v. 287; p. 28.

Frankforter, George B., U. S. Army. Preparation of hydriodic acid. No. 1,380,951; June 7; v. 287; p. 120.

Franklin, Joseph, Smithtown, New South Wales, assignor to The Efficient Gas Power Company, Limited, Sydney, New South Wales, Australia. Suction gas-generator. No. 1,382,074; June 21; v. 287; p. 443.

Frankman, Olof, Malmo, Sweden. Motor-driven agricultural machine. No. 1,381,816; June 14; v. 287; p. 335.

Franks, William B., assignor of one-half to G. W. Winders, Tolu, Ky. Grain-drill. No. 1,382,497; June 21; v. 287; p. 524.

Frantz Manufacturing Co. (See Martin, Cecil R., assignor.)

Franzen, Henry M., Los Angeles, Calif. Aeroplane. No. 1,382,772; June 28; v. 287; p. 630.

Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Governor for player-pianos. No. 1,381,911; June 21; v. 287; p. 414.

Freda, Theophil J., Detroit, Mich. Excavator. No. 1,380,790; June 7; v. 287; p. 89.

Freeman, Allie M., Helena, Mont. Curtain-holder. No. 1,381,817; June 14; v. 287; p. 335.

Freeman, John, assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y. Couch-bed. No. 1,381,292; June 14; v. 287; p. 236.

Freeman, John, assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y. Convertible furniture. No. 1,381,293; June 14; v. 287; p. 237.

Freeze, John A., Sayreville, N. J., assignor of one-half to M. Rumper, New York, N. Y. Automobile-switch. No. 1,381,409; June 14; v. 287; p. 258.

French Battery & Carbon Co. (See Graves, John, assignor.)

French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,382,968; June 28; v. 287; p. 667.

French, Louis O., Milwaukee, Wis. Internal-combustion engine. No. 1,381,294; June 14; v. 287; p. 237.

Fresca, C. A., & Sohn. (See Pechstein, Fritz, assignor.)

Frey, Albert, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Manufacture of metal pyrophosphate casein compounds colloidally soluble in dilute alkaline solutions. No. 1,381,295; June 14; v. 287; p. 237.

Frey, Sigmund, assignor to Woolwine Metal Products Company, Los Angeles, Calif. Canteen-holder. No. 1,382,969; June 28; v. 287; p. 667.

Fried. Krupp Aktiengesellschaft. (See Bruhn, Gustav A., assignor.)

Fried. Krupp Aktiengesellschaft. (See Rys, Albert, assignor.)

Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)

Frink, Gerald, Seattle, Wash. High-lead block. No. 1,381,410; June 14; v. 287; p. 259.

Frisbie, Nelson D., assignor of one-half to W. E. Sewell, Detroit, Mich. Holder for soft collars. No. 1,382,970; June 28; v. 287; p. 668.

Fritz, Adolf, Magdeburg, Germany. Device for automatically stopping trains. No. 1,383,198; June 28; v. 287; p. 711.

Fromm, Edward H., Allentown, Pa., assignor to Fuller-Lehigh Company. Concentrating-pan. No. 1,381,411; June 14; v. 287; p. 259.

Fry, Ernest T., assignor to J. M. Moses, Baltimore, Md. Mail-box. No. 1,382,419; June 21; v. 287; p. 509.

Fuld, William. (See Norwood, Harry G., assignor.)

Fuller Engineering Company. (See Barnhurst, Henry G., assignor.)

Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Machine for printing and issuing railway-tickets. No. 1,382,637; June 28; v. 287; p. 604.

Fuller, George B., Cleveland, Ohio. Internal-combustion engine. No. 1,382,420; June 21; v. 287; p. 509.

Fuller, Harvey R., Kirksville, Mo. Show-carding pen. No. 1,381,296; June 14; v. 287; p. 237.

Fuller-Lehigh Company. (See Fromm, Edward H., assignor.)

Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Process of and apparatus for producing radiofrequency-current. No. 1,381,626; June 14; v. 287; p. 298.

Fulton Company, The. (See Fulton, Weston M., assignor.)

Fulton Company, The. (See Giesler, Jean V., assignor.)

Fulton, Samuel M., Pomona, Calif. Pump-head. No. 1,382,281; June 21; v. 287; p. 482.

Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Packless valve. No. 1,381,818; June 14; v. 287; p. 336.

Fulton, William B., Middletown, Ohio. Drier-heating system. No. 1,380,373; June 7; v. 287; p. 10.

Fulton, William H. (See Brinkman, L. H., Fulton, and Shellmer.)

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe-soles. No. 1,381,297; June 14; v. 287; p. 237.

Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window-envelops. No. 1,381,090; June 7; v. 287; p. 147.

Gabel, Henry M., Cincinnati, Ohio. Making litharge and red lead. No. 1,382,282; June 21; v. 287; p. 482.

Gaines, Bernard C., Burlington, Ky. Hog-holder. No. 1,380,891; June 7; v. 287; p. 109.

Gaither, C. T. (See Turner, Russell J., assignor.)

Gallagher, Charles F. (See Lukens, W. R., and Gallagher.)

Galland, Charles N., and W. A. Kelsey, assignors to Multicolor Printing and Machinery Company, Minneapolis, Minn. Multicoloring-printing press. No. 1,382,773; June 28; v. 287; p. 630.

Gansert, Frederick and H., Jr., Syracuse, N. Y. Forming and aliining type on the type-bars of typewriting-machines. No. 1,380,709; June 7; v. 287; p. 73.

Gansert, Herman, Jr. (See Gansert, Frederick and H., Jr.)

Gapp, Albert J., Wales, N. D. Binder attachment. No. 1,381,984; June 21; v. 287; p. 427.

Gardner, Fred G., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,380,374; June 7; v. 287; p. 10.

Gardner, Henry A., Washington, D. C. Fabric for airships and making same. No. 1,381,412; June 14; v. 287; p. 259.

Gardner, Henry A., Washington, D. C. Fabric for airships and making same. No. 1,381,413; June 14; v. 287; p. 259.

Garfield, Edward L., Tuckahoe, N. Y. Fan or blower. No. 1,381,819; June 14; v. 287; p. 336.

Garland, William W. (See Fasel, C., and Garland.)

Garred, Ulysses V., Louisa, Ky. Memorandum attachment for albums. No. 1,381,114; June 14; v. 287; p. 205.

Garrett, Gordon E., Salt Lake City, Utah. Dust-cover for tire-valves. No. 1,381,627; June 14; v. 287; p. 298.

Garrett, Marvin, Pensacola, Fla. Tabulating attachment for typewriters. No. 1,382,971; June 28; v. 287; p. 668.

Gas Research Company, The. (See Smith, Harry F., assignor.)

Gasoline Recovery Corporation. (See Burrell, G. A., Voress, and Canter, assignors.)

Gassenhuber, Alois, Jr., South Milwaukee, Wis. Pump. No. 1,381,115; June 14; v. 287; p. 205.

Gates, Philetus W., Chicago, Ill., assignor to Mumford Molding Machine Company. Combination jolt ramming and squeezing machine. No. 1,381,912; June 21; v. 287; p. 414.

Gaunt, Walter F., Birmingham, England. Medal-ribbon bar. No. 1,380,892; June 7; v. 287; p. 109.

Gavey, Joseph, *et al.* (See Lukens, W. R., and Gallagher, assignors.)

Gaylor, William M. (See Kinsman, H. H., and Gaylor.)

Gaynor, John J., assignor to Meier-Gaynor Manufacturing Co., Indianapolis, Ind. Bottle-crowner. No. 1,381,628; June 14; v. 287; p. 299.

Gebert, Carl F., New York, N. Y. Amusement device. No. 1,380,893; June 7; v. 287; p. 109.

Gebhardt, Charles L., Green, Kans. Grain-saving attachment for threshing-machines. No. 1,382,901; June 28; v. 287; p. 654.

Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber article and making the same. No. 1,382,774; June 28; v. 287; p. 631.

Geier, P. A., Company, The. (See Robertson, Frank E., assignor.)

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Axtell, Clinton J., assignor.)

General Electric Company. (See Baldwin, Henry S., assignor.)

General Electric Company. (See Baum, William, assignor.)

General Electric Company. (See Beverage, Harold H., assignor.)

General Electric Company. (See Dantsizen, Christian, assignor.)

General Electric Company. (See Dawson, William F., assignor.)

General Electric Company. (See French, Henry G., assignor.)

General Electric Company. (See Hobart, Henry M., assignor.)

General Electric Company. (See Hoxie, Charles A., assignor.)

General Electric Company. (See Korthals-Altes, Willem C., assignor.)

General Electric Company. (See Langmuir, Irving, assignor.)

General Electric Company. (See Lee, Corliss E., assignor.)

General Electric Company. (See McGrath, Thomas J., assignor.)

General Electric Company. (See Schilling, Walter W., assignor.)

General Electric Company. (See Steenstrup, Christian, assignor.)

General Electric Company. (See Tritle, Joseph F., assignor.)

General Electric Company. (See Wagner, Edward A., assignor.)

General Electric Company. (See Welch, Alfred F., assignor.)

General Motors Corporation. (See Goodwin, Edward W., assignor.)

General Motors Corp. (See Short, Charles R., assignor.)

George, Frank L., Los Angeles, assignor of one-fourth to B. J. Neill, San Francisco, Calif. Self-adjusting wire flange for piano-actions. No. 1,382,828; June 28; v. 287; p. 640.

Gerhard, William H., Austin, Tex. Rolling windshield. No. 1,380,894; June 7; v. 287; p. 109.

Gerlach, Oscar, Danville, Ill. Making insulating composition. No. 1,381,118; June 14; v. 287; p. 205.

Geron, Stanley, Yorkville, N. Y. Fire-alarm. No. 1,382,185; June 21; v. 287; p. 463.

Gerrard, Alec J., Chicago, Ill. Bundling-machine. No. 1,380,791; June 7; v. 287; p. 89.

Gerson, Morris, Duluth, Minn. Apparatus for and method of making receptacles. No. 1,381,179; June 14; v. 287; p. 216.

Gerstenberger, Frederick E., South Euclid, Ohio. Method and means for heating by carbon and hydrocarbon oils. No. 1,382,721; June 28; v. 287; p. 620.

Getts, Eva J., administratrix. (See Getts, Frank E.)

Getts, Frank E., deceased: E. J. Getts, administratrix, assignor to Electrical Engineers Equipment Company, Chicago, Ill. Bus-bar clamp. No. 1,380,550; June 7; v. 287; p. 43.

Getz, Benjamin E., assignor to Getz Power Washer Co., Morton, Ill. Wringer mechanism for washing-machines. No. 1,380,551; June 7; v. 287; p. 43.

Getz Power Washer Co. (See Getz, Benjamin E., assignor.)

Gherassimoff, Nicolas, Germain en Laye, France. Progressive and reversible change-speed mechanism. No. 1,381,866; June 14; v. 287; p. 345.

Giauque, Pierre L. A., Levallois-Perret, assignors to Societe Anonyme Des Automobiles Et Cycles Peugeot, Paris, France. Back-pedaling brake for velocipedes. No. 1,382,902; June 28; v. 287; p. 654.

Gibson, Ada R., Riverdale, Md. Educational device. No. 1,383,097; June 28; v. 287; p. 692.

Giefers, George, Brooklyn, N. Y. Callus and corn remover. No. 1,382,972; June 28; v. 287; p. 668.

Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,382,498; June 21; v. 287; p. 524.

Gifford, Clayton E., Marion, Ohio. Radiator-cap. No. 1,382,499; June 21; v. 287; p. 524.

Gilchrist, George H., Ottawa, Ontario, Canada. Drawing-board. No. 1,380,646; June 7; v. 287; p. 61.

Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)

Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric motor. No. 1,381,985; June 21; v. 287; p. 427.

Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric motor. No. 1,381,986; June 21; v. 287; p. 427.

Gilbert, Henry J., Saginaw, Mich. Metal pulley. No. 1,382,829; June 28; v. 287; p. 641.

Gilbert, Tracy B. (See Kaehn, Henry B., assignor.)

Gilbertson, Otto M., La Crosse, Wis. Railway mail-delivering apparatus. No. 1,381,414; June 14; v. 287; p. 259.

Gill, Edwin R., Yonkers, N. Y. Electric battery. No. 1,381,298; June 14; v. 287; p. 237.

Gill, James F., and J. N. Chavlara, Liverpool, England. Consecutive operation of two or more mechanisms. No. 1,383,098; June 28; v. 287; p. 692.

Giles, Pierre P., Chicago, Ill. Fuel-feeding device for carburetors. No. 1,381,867; June 14; v. 287; p. 345.

Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield attachment. No. 1,381,629; June 14; v. 287; p. 299.

Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)

Gillilyn, John J., Oshawa, Ontario, Canada. Traction-tread for pneumatic tires. No. 1,380,952; June 7; v. 287; p. 120.

Gilman, Frank, Gervais, Oreg. Writing-paper support. No. 1,380,895; June 7; v. 287; p. 109.

Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stone-drilling engine. No. 1,382,775; June 28; v. 287; p. 631.

Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stone-drilling engine. No. 1,382,776; June 28; v. 287; p. 631.

Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company. Cutting-tool. No. 1,382,777; June 28; v. 287; p. 631.

Gilman, George H., assignor to Sullivan Machinery Company, Boston, Mass. Rock-drill. No. 1,382,778; June 28; v. 287; p. 631.

Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Rock-drill. No. 1,382,779; June 28; v. 287; p. 632.

Gilmore, William L., and J. F. Meade, Roosevelt, assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Hydroairplane landing-gear. No. 1,382,421; June 21; v. 287; p. 509.

Gleason, Roy. (See Fate, John L., assignor.)

Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Duplex fastener-setting machine. No. 1,381,180; June 14; v. 287; p. 216.

Gleason, Stephen R., assignor to H. Hutchins Parker and A. D. Parker, Copartners, Lowell, Mass, doing business under the name of Walter L. Parker Co. Machine for placing rings on bobbins. No. 1,382,075; June 21; v. 287; p. 443.

Gleason, William D., assignor of one-half to E. H. Davis, Central Point, Oreg. Pruning-machine. No. 1,382,350; June 21; v. 287; p. 495.

Gleason Works. (See Stewart, A. L., Bullock, and Earl, assignors.)

Gleichrichter-Aktiengesellschaft. (See Schäfer, Béla B., assignor.)

Glisson, Amos A., Fort Worth, Tex. Strap binder or lock and record-check. No. 1,380,472; June 7; v. 287; p. 28.

Glens Falls Machine Works. (See Chappell, Fred B., assignor.)

Gloor, Walther, and L. Haack, New York, N. Y. Carpet-attachment device. No. 1,381,913; June 21; v. 287; p. 414.

Goben, Edward G., assignor to The E. V. Benjamin Company, Inc., New Orleans, La. Cutting-machine for cloth and other material. No. 1,380,710; June 7; v. 287; p. 73.

Gockerell, Fritz, Munich, Bavaria, Germany. Operating mechanism for explosion-engines. No. 1,381,181; June 14; v. 287; p. 217.

Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,382,903; June 28; v. 287; p. 654.

Godshalk, Elmer G., Blackwell, Okla. Lock-casing. No. 1,382,186; June 21; v. 287; p. 463.

Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation. Chicago, Ill. Automobile-bumper. No. 1,381,182; June 14; v. 287; p. 217.

Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Rear bumper for Ford cars. No. 1,381,914; June 21; v. 287; p. 414.

Gold, Egbert H. (See Schreiber, Edward A., assignor.)

Goldberg, Hyman E., New York, N. Y., (now by judicial change of name Hyman Golber,) assignor, by mesne assignments, to Remington Accounting Machine Corporation. Calculating-machine. No. 1,380,792; June 7; v. 287; p. 89.

Goldberg, Rubin, Brooklyn, N. Y. Corner-fastening for metal bedsteads. No. 1,382,351; June 21; v. 287; p. 495.

Goldberger, Ernest, Detroit, Mich. Tractor-wheel. No. 1,382,597; June 21; v. 287; p. 543.

Goldman, Barney, New York, N. Y. Roof leader connection. No. 1,380,793; June 7; v. 287; p. 90.

Goldschmidt, Victor M., assignor to Det Norske Aktieselskab for elektro-kemisk Industri, Norsk Industri-Hypotekbank, Christiania, Norway. Manufacture of aluminium compounds from silicates. No. 1,380,552; June 7; v. 287; p. 43.

Goldstein, Harry B., St. Paul, Minn. Form for hat-crowns. No. 1,381,915; June 21; v. 287; p. 414.

Goldstein, Louis, Brooklyn, N. Y. Turnover-machine. No. 1,381,820; June 14; v. 287; p. 336.

Goodrich, B. F., Company, The. (See Butler, James L., assignor.)

Goodrich, B. F., Company, The. (See Geer, William C., assignor.)

Goodrich, Chauncey M., U. S. Army. Ventilator. No. 1,381,630; June 14; v. 287; p. 299.

Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Splicing-tool. No. 1,382,500; June 21; v. 287; p. 524.

Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)

Goodwin, Edward W., assignor to General Motors Corporation, Detroit, Mich. Adjustable windshield-support. No. 1,381,116; June 14; v. 287; p. 205.

Goodwin, Grover T., Crawford, Colo. Cultivator. No. 1,382,422; June 21; v. 287; p. 509.

Goodwin, John F., Sarnia, Ontario, Canada. Water-heater using a fluid fuel. No. 1,382,283; June 21; v. 287; p. 482.

Goodyear Tire & Rubber Company, The. (See Bedford, Clayton W., assignor.)
Goodyear Tire and Rubber Company, The. (See Kilborn, Karl B., assignor.)
Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
Goray, Mike, Indiana Harbor, Ind. Combined door-bell and burglar-alarm. No. 1,382,904; June 28; v. 287; p. 655.
Gordon, John. (See Shackleton, H. and Gordon.)
Gordon, Robert W., and A. C. Daman, Denver, Colo., assignors to The Stearns Roger Manufacturing Company. Grinding-mill. No. 1,381,987; June 21; v. 287; p. 427.
Gordon, William, Union, N. J. Monkey-wrench. No. 1,380,794; June 7; v. 287; p. 90.
Gordone, Robbie, New York, N. Y. Hair-curler. No. 1,383,099; June 28; v. 287; p. 692.
Gorman, Matthew J., Ottawa, Ontario, Canada. License-indicator for motor-vehicles. No. 1,381,117; June 14; v. 287; p. 205.
Gormley, Frank L., Brookline, Mass. Stop mechanism for lifting-jack. No. 1,380,375; June 7; v. 287; p. 10.
Gormley, Frank L., Brookline, Mass. Antifriction mechanism for lifting-jacks. No. 1,381,988; June 21; v. 287; p. 428.
Gormley, Frank L., Brookline, Mass. Speed-controlling mechanism for load-lifting devices. No. 1,383,199; June 28; v. 287; p. 711.
Gormley, Frank L., Brookline, Mass. Braking means for load-lifting devices. No. 1,383,200; June 28; v. 287; p. 711.
Gormley, Frank L., Brookline, Mass. Brake mechanism for lifting-jacks and the like. No. 1,383,201; June 28; v. 287; p. 712.
Gormley, Frank L., Brookline, Mass. Device for retarding the speed of lowering of self-run-down lifting-jacks. No. 1,383,202; June 28; v. 287; p. 712.
Goss, John H., Chicago, Ill. Device for cooling liquids. No. 1,382,638; June 28; v. 287; p. 604.
Gotham Process Shank, Inc. (See Roberts, Frank E., assignor.)
Government of the United States, The. (See Barry, Edward H., assignor.)
Government of the United States. (See Macfarlane, S. B., and Barry, assignors.)
Government of the United States, represented by the Secretary of the Navy. (See Scheele, Walter T., assignor.)
Gračanin, Ivan, Barton, Ohio. Musical instrument. No. 1,382,076; June 21; v. 287; p. 444.
Grady, Alma E., Gardena, Calif. Curtain-rod hood. No. 1,382,973; June 28; v. 287; p. 668.
Graeber Vacuum Piano-Player Attachment Company. (See Guarniery, Robert A., assignor.)
Grah, William, Waterville, Ohio. Audible low-liquid-level alarm for tanks. No. 1,381,299; June 14; v. 287; p. 238.
Graham, Charles W., Allendale, N. J., assignor to American Can Company. Machine for positioning and cutting fish. No. 1,381,980; June 21; v. 287; p. 428.
Graham, Charles W., Creetwood, assignor to American Can Company, New York, N. Y. Can. No. 1,382,501; June 21; v. 287; p. 524.
Graham, David M., Bordulac, N. D. Stack-former. No. 1,381,868; June 14; v. 287; p. 345.
Graham, David M., Bordulac, N. D. Stack-former. No. 1,381,869; June 14; v. 287; p. 345.
Graham, George F., Cleveland, Ohio. Pump. No. 1,380,896; June 7; v. 287; p. 110.
Graham, John G., Tomah, Wis. Power-driven tire-pump. No. 1,382,722; June 28; v. 287; p. 621.
Graham, William B., Deaver, Wyo. Vegetable-topping machine. No. 1,380,647; June 7; v. 287; p. 61.
Grand Rapids Show Case Company. (See Reigersberg, Morris, assignor.)
Grapho-Metal Packing Company. (See Ostrander, James, assignor.)
Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Cooling means for electric metal-working transformers. No. 1,382,905; June 28; v. 287; p. 655.
Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Self-heating rivet and riveting with same. No. 1,382,906; June 28; v. 287; p. 655.
Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Battery-core-making machine. No. 1,382,639; June 28; v. 287; p. 604.
Graves, Spencer C., St. Louis, Mo. Waterproof composition. No. 1,382,077; June 21; v. 287; p. 444.
Gray, Berte C., Sedgwick, Kans. Spring-motor vehicle. No. 1,381,870; June 14; v. 287; p. 346.
Gray, Charles B., Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,381,088; June 7; v. 287; p. 147.
Gray & Davis Inc. (See Moses, William B., assignor.)
Gray, Edwin M., Everett, Wash. Auxiliary log-supporting means for clapboard-sawing machines. No. 1,381,183; June 14; v. 287; p. 217.
Gray, John, assignor to R. & W. Hawthorn, Leslie & Company, Limited, Newcastle-upon-Tyne, England. Manhole-fitting. No. 1,382,187; June 21; v. 287; p. 464.
Gray, Leonard G., assignor to Walrus Manufacturing Company, Decatur, Ill. Drain for ice-cream cabinets. No. 1,382,352; June 21; v. 287; p. 495.
Gray, Rollin L., Eau Claire, Wis. Hairpin. No. 1,382,353; June 21; v. 287; p. 496.
Graziano, Joseph, son of Peter. (See Graziano, Joseph, son of Rosorio.)
Graziano, Joseph, son of Rosorio, and J. Graziano, son of Peter, Newburgh, N. Y. Motor. No. 1,380,795; June 7; v. 287; p. 90.
Great Western Commercial Body Company. (See Stone, William L., assignor.)
Grebenstein, Charles. (See Farkas, W., and Grebenstein.)
Green, Arch B., assignor of one-half to U. G. Walker, San Francisco, Calif. Dispensing-faucet. No. 1,383,100; June 28; v. 287, p. 692.
Green, Chester, Cornwall Landing, N. Y. Safety-crank. No. 1,383,101; June 28; v. 287; p. 692.
Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
Green, Richard D., Trenton, N. J., assignor to John A. Roebling's Sons Company. Wire rope. No. 1,382,723; June 28; v. 287; p. 621.
Green, Samuel G., U. S. Army. Shoulder-rest for guns. No. 1,381,631; June 14; v. 287; p. 299.
Green, William, Portland, Oreg. Serving-machine. No. 1,382,502; June 21; v. 287; p. 525.
Greenberg, Harry S., Danville, Va. Dining-service apparatus. No. 1,382,354; June 21; v. 287; p. 496.
Greenberg, Joseph, Philadelphia, Pa. Dry coffee compound. No. 1,381,821; June 14; v. 287; p. 336.
Greenberg, Joseph, Philadelphia, Pa. Prepared dry coffee-substitute compound. No. 1,381,822; June 14; v. 287; p. 336.
Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic developing apparatus. No. 1,381,871; June 14; v. 287; p. 346.
Greene, Morgan A., Rupert, Idaho. Detachable mud-shoes for tractors. No. 1,382,078; June 21; v. 287; p. 444.
Greenough, Henry B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,381,184; June 14; v. 287; p. 217.
Greer, John A., Chicago, Ill. Combined advertising device and street-indicator. No. 1,382,079; June 21; v. 287; p. 444.
Greer, Robert L., San Diego, Calif. Auxiliary windshield. No. 1,382,284; June 21; v. 287; p. 483.
Gregg, Walter M. (See Eastman, O. D., and Gregg.)
Gregory, Benjamin F., and W. H. Craun, Kansas City, Mo. Front drive and steering wheel for automobiles. No. 1,380,796; June 7; v. 287; p. 90.
Greiner, Anton F., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Wheel and bearing therefor. No. 1,382,355; June 21; v. 287; p. 496.
Greuling, John J., Hibbing, Minn. Excavator-dipper door. No. 1,383,102; June 28; v. 287; p. 692.
Grey, William S., San Francisco, Calif., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Ironing-machine. No. 1,382,724; June 28; v. 287; p. 621.
Griesser, Anthony J. (See Donnelly, J. E., and Griesser.)
Griffin, Archibald W., assignor to The Electric Vaporizing Nozzle Company, Toledo, Ohio. Vaporizer. No. 1,380,558; June 7; v. 287; p. 43.
Griffin, Walter B., Melbourne, Victoria, Australia. Building component. No. 1,381,823; June 14; v. 287; p. 336.
Griffiths, Harry A., Edgbaston, Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Sheet-metal-working machine. No. 1,382,974; June 28; v. 287; p. 668.
Griffiths, Richard H. (See Griffiths, Harry A. and R. H.)
Grimelmann, Hermann, Wallisellen, Switzerland. Manufacturing of india-rubber suckers provided with valve-projectures. No. 1,381,185; June 14; v. 287; p. 217.
Grimes, Roy T., Forbes, Mo. Gate-latch. No. 1,383,103; June 28; v. 287; p. 693.
Griscom Russell Company. (See Price, Joseph, assignor.)
Grossman, Harrison R., Philadelphia, Pa. Finger-ring. No. 1,383,104; June 28; v. 287; p. 693.
Grover, Albert D., New York, N. Y. Bridge for musical stringed instruments. No. 1,381,187; June 14; v. 287; p. 218.
Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-testing device for coin-controlled machines. No. 1,381,186; June 14; v. 287; p. 217.
Grunow, William, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device for internal-combustion engines. No. 1,380,797; June 7; v. 287; p. 91.
Grupe, William F. (See Adamson, A. A., and Grupe.)
Guardian Trust & Savings Bank of Toledo, The, trustee. (See Lott, Clyde R., assignor.)
Guarniery, Robert A., Philadelphia, Pa., assignor to Graeber Vacuum Piano-Player Attachment Company, Inc. Suction attachment for player-piano mechanism. No. 1,380,473; June 7; v. 287; p. 28.
Gudelj, Ella I., San Francisco, Calif. Combined baby carriage and walker. No. 1,381,415; June 14; v. 287; p. 259.
Guerini, Annibale A., Middleboro, Mass. Internal-combustion rotary engine. No. 1,381,872; June 14; v. 287; p. 346.
Guild, George R., U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Relay. No. 1,382,356; June 21; v. 287; p. 496.
Guild, Willis T., Jackson, Miss. Can-filling machine. No. 1,383,105; June 28; v. 287; p. 693.

Gulf Refining Company. (See Alexander, C. M., and Taber, Jr., assignors.)
Gunn, William A., Grand Rapids, Mich. Desk-top or like structure and making same. No. 1,381,916; June 21; v. 287; p. 415.
Gunnarson, Enoch C., Brooklyn, N. Y. Smoking-pipe cleaner. No. 1,380,897; June 7; v. 287; p. 110.
Gurske, Anna C., Omaha, Nebr. File-wrapper. No. 1,382,780; June 28; v. 287; p. 632.
Gury, John B., St. Louis, Mo. Means for reducing friction. No. 1,381,188; June 14; v. 287; p. 218.
Guy, Alfred. (See Murray, H. L., and Guy.)
Haack, Louis. (See Gloor, W., and Haack.)
Haas, Carl, *et al.* (See Haas, T. J., and Blumer, assignors.)
Haas, Theodore J., East Northport, and Paul Blumer, Brooklyn, assignors of one-fourth to said Theodore J. Haas, one-fourth to P. Blumer, one-fourth to C. Haas, and one-fourth to W. Haas, New York, N. Y. Cloth-stretching apparatus. No. 1,381,632; June 14; v. 287; p. 299.
Haas, William, *et al.* (See Haas, T. J., and Blumer, assignors.)
Haas, William, Company, The. (See Haas, W., and Ringelspaugh, assignors.)
Haas, William, and C. W. Ringelspaugh, assignors to The William Haas Company, Dayton, Ohio. Radiator-valve. No. 1,382,080; June 21; v. 287; p. 444.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-edge-treating tool. No. 1,381,917; June 21; v. 287; p. 415.
Hadaway, John B., Swampscott and C. E. Campbell, Lynn, Mass. Aerial bomb. No. 1,383,106; June 28; v. 287; p. 693.
Hadaway, William S., Jr., New Rochelle, N. Y. Generation and distribution of heat. No. 1,383,107; June 28; v. 287; p. 693.
Hadaway, William S., Jr., New Rochelle, N. Y. Electric steam-cooker. No. 1,383,108; June 28; v. 287; p. 694.
Hadaway, William S., Jr., New Rochelle, N. Y. Range. No. 1,383,109; June 28; v. 287; p. 694.
Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,383,110; June 28; v. 287; p. 694.
Hadfield, Robert A., Westminster, A. G. McK. Jack, Sheffield, and I. B. Milne, Totley, England. Armor-piercing projectile. No. 1,381,633; June 14; v. 287; p. 300.
Hadley, George E., and W. E. Riley, Louisville, Ky. Towel-dispensing cabinet. No. 1,380,648; June 7; v. 287; p. 61.
Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,382,423; June 21; v. 287; p. 509.
Haefely, Emil, Basel, Switzerland. Electric insulator. No. 1,381,189; June 14; v. 287; p. 218.
Hagaman, Edwin A., Madella, Minn. Form of artificial tooth and means or method of anchoring same into position in the mouth. No. 1,382,830; June 28; v. 287; p. 641.
Hagaman, Joseph P., Lancaster, Wash. Driving connection. No. 1,380,953; June 7; v. 287; p. 120.
Hagan Corporation, The. (See Hopwood, J. M., and Peebles, assignors.)
Hagan, George J., Pittsburgh, Pa. Furnace. No. 1,382,503; June 21; v. 287; p. 525.
Hahn, Louis L. (See Hosking, C., and Hahn.)
Haitt, Alfred. (See Borland, Charles M., assignor.)
Hakes, Hudson W., Millbury, assignor to W. C. Watson, Leicester, Mass. Loom-shuttle. No. 1,380,649; June 7; v. 287; p. 61.
Haley, John A. (See Lapp, J. C., and Haley.)
Hall, Arthur E., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Electrolytic production of zinc. No. 1,380,711; June 7; v. 287; p. 73.
Hall, Arthur E., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Purification of zinc-bearing solutions. No. 1,380,712; June 7; v. 287; p. 74.
Hall, Bicknell, Taunton, Mass. Leather-burnishing mechanism. No. 1,382,504; June 21; v. 287; p. 525.
Hall, Charles T., Buffalo, N. Y. Card-shuffler. No. 1,380,898; June 7; v. 287; p. 110.
Hall, George U., and J. B. Truitt, assignor of one-fourth to A. P. Weidman and one-fourth to L. Hall, Winnemucca, Nev. Gas-gun. No. 1,383,111; June 28; v. 287; p. 694.
Hall, Griffin L. (See Coats, Edward O., assignor.)
Hall, John A. (See Soper, C. P., and Hall.)
Hall, Louise, *et al.* (See Hall, G. U., and J. B. Truitt, assignors.)
Hall, Oliver, and V. P. Row, Coniston, Ontario, Canada. Means for controlling the direction of cutting drill-holes in rock. No. 1,380,954; June 7; v. 287; p. 131.
Hall, Robert S., Detroit, Mich. Signal for motor-vehicles. No. 1,381,918; June 21; v. 287; p. 415.
Hall Switch & Signal Co. (See Blake, Eli J., assignor.)
Hall, Willard L., Howard, Kans. Flytrap. No. 1,381,824; June 14; v. 287; p. 337.
Halmer, Otto F., Los Angeles, Calif. Film-developer. No. 1,381,548; June 14; v. 287; p. 284.
Halseth, Henry E., Virginia, Minn. Pen retainer and releaser for penholders. No. 1,381,549; June 14; v. 287; p. 285.
Halverson, Lewis H., Miller, Iowa. Wagon-rack. No. 1,381,634; June 14; v. 287; p. 300.
Hamilton, James W. C., and E. W. Quirk, Liverpool, England. Sterilizing cereals, nuts, seeds, and the like. No. 1,381,300; June 14; v. 287; p. 238.
Hammond, Amil R. (See Carswell, J. S., and Hammond assignor.)
Hammond, V. Hayes. (See Fay, Richard D., assignor.)
Handlan-Buck Manufacturing Company. (See Meyer, August, assignor.)
Handy, Arthur, and C. E. Krueger, Milwaukee, Wis. Rail-drill. No. 1,381,919; June 21; v. 287; p. 415.
Hanlon, William P., assignor of one-half to A. A. Camerer, New York, N. Y. Desk furniture. No. 1,381,825; June 14; v. 287; p. 337.
Hannegan, Joseph L., Los Angeles, Calif. Hub-flange for motor-vehicles. No. 1,381,635; June 14; v. 287; p. 300.
Hans, Edmund E., Detroit, Mich. Traction-wheel. No. 1,380,474; June 7; v. 287; p. 29.
Hansen, Anton G., Boelus, Nebr. Auto-wheel shoe. No. 1,381,826; June 14; v. 287; p. 337.
Hansen, Clemmet, Brooklyn, N. Y. Boat. No. 1,380,899; June 7; v. 287; p. 110.
Hansen, Emil. (See Marheine, Frederick W., assignor.)
Hansen, George T., *et al.* (See Sherwood, Charles F., assignor.)
Hansen, George T., and C. F. Sherwood, Salt Lake City, Utah. Pump. No. 1,380,798; June 7; v. 287; p. 91.
Hansen, Hans C., Copenhagen, Denmark. Lathing-sheet. No. 1,382,357; June 21; v. 287; p. 496.
Hanson, Bengt, M. W., Hartford, Conn. Clutch. No. 1,381,990; June 21; v. 287; p. 428.
Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Wireless Phonograph for hospitals. No. 1,381,827; June 14; v. 287; p. 337.
Hanson, Maynard N., Little Rock, Ark. Jar-holder. No. 1,383,112; June 28; v. 287; p. 694.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separation of oleo and stearin from fats. No. 1,381,705; June 14; v. 287; p. 314.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separating oils from foots. No. 1,381,706; June 14; v. 287; p. 314.
Hardcastle, Frank L., Chicago, Ill. Shoe-rack. No. 1,380,376; June 7; v. 287; p. 10.
Hardin, Alford, Murray, Ohio. Lock. No. 1,383,113; June 28; v. 287; p. 695.
Hardinge Brothers. (See Rendle, Thomas A., assignor.)
Hardy, Clarence L., assignor to M. D. Larkin, Dayton, Ohio. Nozzle. No. 1,381,873; June 14; v. 287; p. 346.
Hargey, George L., Pottsville, Pa. Plumber's table and vise-support. No. 1,382,505; June 21; v. 287; p. 525.
Hargrave, Oscar Y., Malden, Mass. Means of defense. No. 1,381,304; June 14; v. 287; p. 238.
Harkins, Thomas L., Boston, Mass. Circular planer. No. 1,381,550; June 14; v. 287; p. 285.
Harman, John F., Kansas City, Kans. Oil-burner. No. 1,382,725; June 28; v. 287; p. 621.
Harmony Spring Cushion Co. (See Babendererde, Walter, assignor.)
Harmony Spring Cushion Co. (See Bills, Elmer S., assignor.)
Harper, Anna R., Ames, Iowa. Traveling suitette. No. 1,381,874; June 14; v. 287; p. 347.
Harper, Raymond. (See Stanbury, G. E., and Harper.)
Harpham, George E., Los Angeles, Calif. Trolley-retriever. No. 1,381,875; June 14; v. 287; p. 347.
Harrington, Fred, San Diego, Calif. Accelerator extension-pedal for automobiles. No. 1,383,114; June 28; v. 287; p. 695.
Harris, Benjamin, East Akron, Ohio, assignor of twenty-four per cent. to M. Lurie and twenty-five per cent. to E. Lurie. Motor-meter. No. 1,380,955; June 7; v. 287; p. 121.
Harris, Donald P., Jersey Shore, Pa. Device for synchronizing clutch and gear sets on motor-vehicles. No. 1,380,900; June 7; v. 287; p. 110.
Harris, Jonathan W., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnet-core. No. 1,381,460; June 14; v. 287; p. 268.
Harris, Lexia, Provo, Utah. Leg protector and support. No. 1,380,901; June 7; v. 281; p. 111.
Harris, Ralph W., Newark, Ohio. Engine attachment. No. 1,382,285; June 21; v. 287; p. 483.
Harris, Robert E., El Paso, Tex. Locking device for motor-vehicles. No. 1,382,189; June 21; v. 287; p. 464.
Harris, Robert E., El Paso, Tex. Locking device for motor-vehicles. No. 1,382,190; June 21; v. 287; p. 464.
Harrison, Tim L., Antlers, Okla. Boll-weevil destroyer. No. 1,380,902; June 7; v. 287; p. 111.
Harrison, John W. (See Mayberry, De Ella B., assignor.)
Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,382,286; June 21; v. 287; p. 483.
Hart, Harry S., assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,380,377; June 7; v. 287; p. 10.
Hartford Machine Gun Company, The. (See Reising, Eugene G., assignor.)
Hartley, James, Philadelphia, Pa. Sprinkler-head for automatic sprinkling devices. No. 1,381,551; June 14; v. 287; p. 285.

Hartman, Jacob G., Baltimore, Md. Vehicle-wheel. No. 1,381,828; June 14; v. 287; p. 337.
Hartman, Robert R., Chicago, Ill. Nostril-cleaning device. No. 1,381,829; June 14; v. 287; p. 337.
Hartmann, Carl, assignor of one-half to J. H. Faust, Mount Vernon, N. Y. Railway mail-transfer device. No. 1,381,461; June 14; v. 287; p. 268.
Hartsock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Bolster for vehicles. No. 1,383,203; June 28; v. 287; p. 712.
Hartung, Harry H., Boston, Mass. Power-transmitting device. No. 1,380,714; June 7; v. 287; p. 74.
Hartwig, William J. (See Cullin, Jasper F., assignor.)
Harvey, A. L., and G. W. Huey, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,381,302; June 14; v. 287; p. 238.
Haslup, Edward W., Bronxville, N. Y. Metal screen or separator for gases. No. 1,382,975; June 28; v. 287; p. 668.
Hasse, Frederick A., and R. Morris, Benton Harbor, Mich. Oil-can. No. 1,380,956; June 7; v. 287; p. 121.
Hastings, Cornelius G., Glendale, Calif. Reinforced blocks and interlocking means therefor. No. 1,381,119; June 14; v. 287; p. 205.
Hastings, Roger W., and Clark W. Parker, New York, N. Y.; said Hastings assignor to said Parker. Oil-retainer. No. 1,381,120; June 14; v. 287; p. 206.
Hatch, Abram. (See Paulson, S., and Hatch.)
Hatch, Charles T., Jr., assignor to The Union Steel Products Company, Ltd., Albion, Mich. Inclosed rack. No. 1,382,907; June 28; v. 287; p. 655.
Hathaway, Edgar F., *et al.* (See Field, M. F., Lanning, Hathaway, and Blanchard.)
Hathaway, William B., Grand Junction, Colo. Coupling. No. 1,380,799; June 7; v. 287; p. 91.
Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Kerosene-burner. No. 1,381,707; June 14; v. 287; p. 315.
Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Automatic oil-burner for furnaces. No. 1,381,708; June 14; v. 287; p. 315.
Haughwout, William A., Fortyfort, Pa. Chain-connecting link. No. 1,380,903; June 7; v. 287; p. 111.
Hausam, Adam, Richmond Heights, Mo. Attachment for electric irons. No. 1,382,781; June 28; v. 287; p. 632.
Hauser, André, La Chaux-de-Fonds, Switzerland. Machine for pulping plants containing textile fibers. No. 1,381,830; June 14; v. 287; p. 338.
Hauser, Benedikt, Romanshorn, Switzerland. Embroidering. No. 1,382,976; June 28; v. 287; p. 669.
Hauser-Stander Tank Company, The. (See Bauerle, John, assignor.)
Haviland, Frank W., New York, N. Y. Head-frame for supporting eyeglasses. No. 1,380,957; June 7; v. 287; p. 121.
Hawaiian Pineapple Company. (See Voss, Otto, assignor.)
Hawker, William, Edmonton, Alberta, Canada. Smoke-stack. No. 1,382,508; June 21; v. 287; p. 526.
Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,380,554; June 7; v. 287; p. 44.
Hawkins, Thomas J., *et al.* (See Carson, Robert H., assignor.)
Haworth, Jehu F., Edgeworth, Pa. Wire or cable end connector. No. 1,380,800; June 7; v. 287; p. 91.
Haworth, Thomas, Fall River, Mass. Bobbin-smash preventer for weft-replenishing looms. No. 1,381,636; June 14; v. 287; p. 300.
Hawresch, Sidor, M. Rock, and B. Dworski, Montreal, Quebec, Canada. Combination furniture. No. 1,380,904; June 7; v. 287; p. 111.
Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,381,637; June 14; v. 287; p. 301.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,383,204; June 28; v. 287; p. 712.
Hayes, Sarah E., guardian. (See Mirmillo, Charles.)
Hayne, John T., Detroit, Mich. Running-board for automobiles. No. 1,382,506; June 21; v. 287; p. 525.
Hayne, John T., Detroit, Mich. Running-board for automobiles. No. 1,382,507; June 21; v. 287; p. 526.
Hayward, Albert C., Ashford, England. Clutch or free-wheel mechanism. No. 1,381,876; June 14; v. 287; p. 347.
Hazeltine, Benjamin P., Wheeling, W. Va. Soaking-pit. No. 1,380,713; June 7; v. 287; p. 74.
Hazlett, Homer A., St. Paul, Minn. Clothesline-fixture. No. 1,380,378; June 7; v. 287; p. 10.
H'Doubler, Charles W., Racine, Wis. Sewing-machine pulley. No. 1,380,715; June 7; v. 287; p. 75.
Hebbard, James, Broken Hill, New South Wales, Australia, assignor to Minerals Separation North American Corporation, New York, N. Y. Apparatus for the concentration of ores. No. 1,380,650; June 7; v. 287; p. 61.
Heckman, August. (See Boggs, A. E., and Heckman.)
Hedges, Edward E., New York, N. Y. Apparatus for distilling kerogen shale. No. 1,383,205; June 28; v. 287; p. 712.
Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Multiple-unit door-control arrangement for cars. No. 1,381,638; June 14; v. 287; p. 301.
Hedrick, Harold L., and H. C. Chantler, Columbus, Ohio. Attachment for typewriters. No. 1,381,920; June 21; v. 287; p. 415
Heeren, Benjiman, Minneapolis, Minn. Snuff-box opener. No. 1,381,831; June 14; v. 287; p. 338.
Heggen, Torkel O., Fort Dodge, Iowa. Interest-computing time-table. No. 1,381,893; June 14; v. 287; p. 350.
Heidenheim, Emmanuel, New York, N. Y. Rug. No. 1,381,832; June 14; v. 287; p. 338.
Heiliger, Paul, Forest Park, Ill. Bellows. No. 1,382,081; June 21; v. 287; p. 444.
Heim, Richard, Philadelphia, Pa. Enamel for papers. No. 1,381,991; June 21; v. 287; p. 428.
Heindl, Stephen O., assignor of one-half to E. Zeitz, Chicago, Ill. Scissors-grinding machine. No. 1,381,416; June 14; v. 287; p. 260.
Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Spray-gun. No. 1,382,640; June 28; v. 287; p. 605.
Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Spray-gun. No. 1,382,641; June 28; v. 287; p. 605.
Heinze, Jack. (See Taylor, Ritchie O., assignor.)
Helburn Thompson Company. (See Thompson, A. E., and Baxter, assignor.)
Helfman, Nathan B. (See Davis, A., and Helfman.)
Helka, Michal, Carthage, N. Y. Picture-hanger. No. 1,382,908; June 28; v. 287; p. 655.
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-converting system. No. 1,381,303; June 14; v. 287; p. 238.
Heltzel, Francis O. (See Heltzel, John N. and F. O.)
Heltzel, John N. and F. O., Warren, Ohio. Concrete-form. No. 1,382,082; June 21; v. 287; p. 445.
Heltzel, Joseph W., Warren, Ohio. Road-building machine. No. 1,380,379; June 7; v. 287; p. 11.
Hemme, August F., Dublin, Ontario, Canada. Seeding-machine. No. 1,380,555; June 7; v. 287; p. 44.
Hempy-Cooper Manufacturing Company. (See Hempy, Wilbur J., assignor.)
Hempy, Wilbur J., Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company. Babbitting-jig. No. 1,380,380; June 7; v. 287; p. 11.
Henba, Joseph, Brooklyn, N. Y. Balloon. No. 1,383,206; June 28; v. 287; p. 712.
Hench, Martin K., Camden, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Apparatus for manufacturing washers. No. 1,381,462; June 14; v. 287; p. 268.
Hendry, Ellen, Fresno, Calif. Inflatable globe. No. 1,383,115; June 28; v. 287; p. 695.
Henley, Micajah C., Richmond, Ind. Automatic oil-drip catcher. No. 1,382,782; June 28; v. 287; p. 632.
Hennessy, D. E., Holyoke, Mass., and J. McGeorge, Cleveland, Ohio, assignors to H. W. Cowan, J. L. Wyckoff, and E. N. White, trustees, Holyoke, Mass. Vehicle steering mechanism. No. 1,382,909; June 28; v. 287; p. 656.
Hennessy, Daniel E., Holyoke, Mass., assignor to H. W. Cowan, J. L. Wyckoff, and E. N. White, trustees, doing business as Cowan Truck Company. Jack. No. 1,381,992; June 21; v. 287; p. 428.
Henning, Albert, Leytonstone, England. Means for cooling internal-combustion engines and other machinery. No. 1,383,270; June 28; v. 287; p. 724.
Henninger, Charles D., Williamsport, Pa. Savings-bank. No. 1,381,190; June 14; v. 287; p. 218
Hepburn, Ruhl. (See Bennett, Edward O., assignor.)
Heppes, Otto A., La Grange, Ill. Roll and package. No. 1,380,475; June 7; v. 287; p. 29.
Herman, Claude A., Bridgeport, Conn. Ball-bearing handpiece for tools. No. 1,380,716; June 7; v. 287; p. 75.
Herman, Claude A., Bridgeport, Conn. Angled handpiece. No. 1,380,717; June 7; v. 287; p. 75.
Herman, Meyer, Chicago, Ill. Trestle. No. 1,380,718; June 7; v. 287; p. 75.
Herold, Raymond C., Cleveland, Ohio. Rotary brush. No. 1,380,381; June 7; v. 286; p. 11.
Herr, Edward A., Philadelphia, Pa. Garment-presser. No. 1,382,726; June 28; v. 287; p. 621.
Herr, Edwin M., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Sanding device. No. 1,382,910; June 28; v. 287; p. 656.
Herring, Jesie M., Groesbeck, Tex. Road-grader and drag. No. 1,381,709; June 14; v. 287; p. 315.
Hersey, Arthur J., Minneapolis, Minn. Vehicle-fender. No. 1,382,911; June 28; v. 287; p. 656.
Herz, Alfred, assignor of one-half to E. O. Schweitzer, Chicago, Ill. Fused cut-out. No. 1,380,556; June 7; v. 287; p. 44.
Hescock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry and Machine Company. Portable elevator. No. 1,381,552; June 14; v. 287; p. 285.
Hess, Frank, Freeport, Ill. Toy gun and projectile. No. 1,381,639; June 14; v. 287; p. 301.
Hess, William. (See Brown, J. W., and Hess.)
Hestehave, Rasmus P., Hilleroed, near Copenhagen, Denmark, assignor to O. Ericsson, Copenhagen, Denmark. Apparatus for aiming firearms. No. 1,381,304; June 14; v. 287; p. 238.
Hetherington, John, and Sons. (See Horridge, James, assignor.)
Heyl, William J. (See Enard, Hans, assignor.)
Heyman, Isidor, Oakland, Calif. Valise-hinge. No. 1,382,083; June 21; v. 287; p. 445.

Heys, John J., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,381,921; June 21; v. 287; p. 415.
Hiatt, Elijah M., *et al.* (See Van Sant, William S., assignor.)
Hick, Harry J., assignor to The McCaskey Register Company. (Incorporated in 1914.) Alliance, Ohio. Filing appliance. No. 1,381,305; June 14; v. 287; p. 235.
Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
Hickok, Theodore O., *et al.* (See Cooper, Leonard, assignor.)
Hidden, George A., Coronado, Calif. Combination check and cut-off valve. No. 1,383,207; June 28; v. 287; p. 713.
Hiers, Charles C. (See Mintz, N., and Hiers.)
Higgins, Joseph I., New York, N. Y. Folding bed. No. 1,380,958; June 7; v. 287; p. 121.
Higson, Albert J., Jersey City, N. J., assignor to The J. G. Wilson Corporation. Roller-bearing. No. 1,381,191; June 14; v. 287; p. 218.
Hildreth, Alonzo L., and A. M. McLendon, Savannah, Ga. Cleaning-machine. No. 1,381,553; June 14; v. 287; p. 285.
Hilker, Frank C., Fort Wayne, Ind. Pneumatic cushion. No. 1,382,831; June 28; v. 287; p. 641.
Hill, George C. (See Cooper, F., and Hill.)
Hill, John F. (See Clark, H. A., Hill, and McGregor.)
Hill, Richard D., Fort Worth, assignor to P. G. Krohn, Electra, Tex. Pipe-tongs. No. 1,382,832; June 28; v. 287; p. 641.
Hill, Robert R., and R. G. Law, Manhasset, N. Y. Piston-packing. No. 1,381,993; June 21; v. 287; p. 428.
Hill, William T., Baltimore, Md. Trolley-wheel attachment. No. 1,380,959; June 7; v. 287; p. 122.
Hi-Lo-Jack Company. (See Lanier, Amos F., assignor.)
Himes, Isaiah, Marshalltown, Iowa. Opera-chair. No. 1,382,084; June 21; v. 287; p. 445.
Hinchley, John W. (See Simon, L. J., and Hinchley.)
Hindahl, David, assignor to National Dump Car Co., Chicago, Ill. General-service car. No. 1,382,191; June 21; v. 287; p. 464.
Hines, Eugene E., Lawrenceville, Ill. Vote-registering machine. No. 1,380,557; June 7; v. 287; p. 44.
Hines, Robert E., W. J. Dellert, and J. A. Staehle, New York, N. Y. Combined vehicle signal and searchlight. No. 1,380,905; June 7; v. 287; p. 111.
Hingston, George N., Philadelphia, Pa. Opening means for boxes. No. 1,381,554; June 14; v. 287; p. 285.
Hipwell, Harry H., Pittsburgh, Pa. Insulator. No. 1,382,912; June 28; v. 289; p. 656.
Hisey-Wolf Machine Company, The. (See Ritz, Emil, Jr., assignor.)
Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,381,192; June 14; v. 287; p. 218.
Hmenia, Veronica, Klein, Mont. Rubber thimble. No. 1,380,960; June 7; v. 287; p. 122.
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,380,961; June 7; v. 287; p. 122.
Hockspeier, Louis H., New Hampton, Iowa. Shipping-crate. No. 1,381,193; June 14; v. 287; p. 218.
Hodge, Howard D., New York, N. Y., and J. G. Duff, Waterbury, Conn. Register. No. 1,382,913; June 28; v. 287; p. 657.
Hodge, William B. (See Cramer, S. W., and Hodge.)
Hodges, Elvin C., Cambridge, Mass. Traffic-signal. No. 1,380,801; June 7; v. 287; p. 92.
Hodson, Frank, Nokomis, Ill. Safety-catch. No. 1,381,555; June 14; v. 287; p. 286.
Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
Hoehl, Bruno A., Wheeling, W. Va. Preserved malt preparation. No. 1,381,833; June 14; v. 287; p. 338.
Hoerner, Frank, Los Angeles, Calif. Automatic tapping device. No. 1,381,556; June 14; v. 287; p. 286.
Hoerr, Louis A., St. Louis, Mo. Striking-block for railway-cars. No. 1,382,085; June 21; v. 287; p. 445.
Hoffay, Jose, New York, N. Y. Sound-reproducer. No. 1,382,086; June 21; v. 287; p. 445.
Hoffman, Frank C., Alameda, Calif. Garment-fastener. No. 1,381,417; June 14; v. 287; p. 260.
Hoffman, Paul, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator for turbo-compressors. No. 1,383,258; June 28; v. 287; p. 722.
Hoffman, Roscoe C., Indianapolis, Ind. Forming disk wheel. No. 1,380,906; June 7; v. 287; p. 111.
Hoffmann-La Roche Chemical Works, The. (See Frey, Albert, assignor.)
Hogan, Anna A., Elmhurst, N. Y. Waist. No. 1,382,358; June 21; v. 287; p. 497.
Hogan, Christopher J., Newport, R. I. Curtain-roller-operating device. No. 1,382,192; June 21; v. 287; p. 464.
Hoge, Daniel W., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill. Method of and apparatus for treating petroleum. No. 1,382,727; June 28; v. 287; p. 621.
Hoge Manufacturing Company, The. (See Raeburn, William, assignor.)
Hoge Manufacturing Company, The. (See Saunders, William M., assignor.)
Holbert, George B., New York, N. Y. Coal-trimming device. No. 1,382,359; June 21; v. 287; p. 497.
Holcomb, James A., San Francisco, Calif. Cream-sampler. No. 1,381,557; June 14; v. 287; p. 286.
Holden, Joseph B., Utica, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,381,994; June 21; v. 287; p. 428.
Holder, Reuben H., Winston-Salem, N. C. Cloth-saving device. No. 1,383,116; June 28; v. 287; p. 695.
Holland, Lyle H., Peterboro, N. H., assignor to Eastern States Package Co., Buffalo, N. Y. Riving device. No. 1,383,208; June 28; v. 287; p. 713.
Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid. No. 1,380,962; June 7; v. 287; p. 122.
Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid. No. 1,380,963; June 7; v. 287; p. 123.
Holm, Sven N., Dorchester, Mass. Thermal mixture-fixture. No. 1,381,922; June 21; v. 287; p. 415.
Holman, Ralph H. Stoneham, and J. MacGregor, Roslindale, Mass. Searchlight. No. 1,382,728; June 28; v. 287; p. 622.
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Holmes, Harold S., Worcester, Mass. Grinding compound. No. 1,380,382; June 7; v. 287; p. 11.
olmes, Henry S., Brooklyn, N. Y. Machine for cutting off fins from electrically-welded work. No. 1,382,193; June 21; v. 287; p. 465.
Holmes, Thomas E., Glasgow, Scotland. Controlling-gear for hydraulic presses. No. 1,381,834; June 14; v. 287; p. 338.
Holmes, Watson W., Austin, Tex. Crude-oil burner. No. 1,381,835; June 14; v. 287; p. 338.
Holmgreen, Julius H., San Antonio, Tex. Casting the hulls of ships from concrete and floating said hulls into a launching-bay. No. 1,383,117; June 28; v. 287; p. 695.
Holmgreen, Julius H., San Antonio, Tex. Mold for casting the hulls of concrete ships. No. 1,383,118; June 28; v. 287; p. 695.
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holt, Thomas W. (See Morrison, J. W., and Holt.)
Homan, John G., assignor to Electrothermal Company, Steubenville, Ohio. Dilator. No. 1,381,194; June 14; v. 287; p. 219.
Homer, Charles H. (See Bostick, J. W., and Homer.)
Hones, Charles A., Rosedale, N. Y. Automatic blast soldering-furnace. No. 1,381,836; June 14; v. 287; p. 339.
Hood, Arthur M., Indianapolis, Ind., assignor, by mesne assignments, to Wirebounds Patents Company. Wire-bound coop. No. 1,383,119; June 28; v. 287; p. 695.
Hood Rubber Company. (See Blanchard, Raymond H., assignor.)
Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Bag for suction-sweepers. No. 1,380,907; June 7; v. 287; p. 112.
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Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
Hooyman, Leonard A. M., Passaic, N. J. Hanger. No. 1,382,509; June 21; v. 287; p. 526.
Hopaidaszka, Frederick, Cobalt, Ontario, Canada. Table. No. 1,381,837; June 14; v. 287; p. 339.
Hopkins, Marcus C., Falls Church, Va., assignor of one-half to F. L. Dyer, Montclair, N. J. Photosculpture. No. 1,382,978; June 28; v. 287; p. 669.
Hopkins, Nevil M., Washington, D. C. Antiskid device. No. 1,380,964; June 7; v. 287; p. 123.
Hopwood, John M., Dormont and T. A. Peebles, assignors to The Hagan Corporation, Pittsburgh, Pa. Blast-nozzle. No. 1,381,306; June 14; v. 287; p. 239.
Hornsey, John W., Summit, N. J. Recovery of potassium salts from solutions containing the same as well as other salts. No. 1,380,383; June 7; v. 287; p. 11
Horr, John V., assignor to A. T. Fischer, Cleveland, Ohio. Carton. No. 1,382,979; June 28; v. 287; p. 669.
Horridge, James, Bolton, assignor of one-half to J. Hetherington and Sons, Limited, Manchester, England. Combing-machine. No. 1,382,194; June 21; v. 287; p. 465.
Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Detecting underwater vibrations. No. 1,381,640; June 14; v. 287; p. 301.
Hosking, Charles, and L. L. Hahn, Philadelphia, Pa. Automobile-lock. No. 1,382,729; June 28; v. 287; p. 622.
Hoskins, William, Chicago, Ill. Utilization of catalyst masses. No. 1,381,558; June 14; v. 287; p. 286.
Hotchkiss, Raymond M., assignor of one-third to P. S. Matthews and one-third to J. W. Fawcett, New Haven, Conn. Check-valve. No. 1,381,463; June 14; v. 287; p. 268.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Box. No. 1,380,908; June 7; v. 287; p. 112.
Houghton, Lewis T., Worcester, Mass. Yarn-tension machine. No. 1,382,730; June 28; v. 287; p. 622.
Houle, Edmond, Danvers, Mass. Food-door for stalls. No. 1,381,559; June 14; v. 287; p. 286.

House, Henry A., Jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Portable wheel-rack. No. 1,380,802; June 7; v. 287; p. 92.
Howard, Albert L., Montello, Mass. Support. No. 1,382,788; June 28; v. 287; p. 632.
Howard, Edward S., Yreka, Calif. Hydraulic fishway. No. 1,380,384; June 7; v. 287; p. 11.
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Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo., Traveling crane. No. 1,380,558; June 7; v. 287; p. 44.
Howe, Earl W., Washington, D. C. Aerial toy. No. 1,382,195; June 21; v. 287; p. 465.
Howe, Frederick W., *et al.* (See Roberts, Frank E., assignor.)
Howes, Charles F., Brockton, Mass. Balance pulley and collar. No. 1,380,965; June 7; v. 287; p. 123.
Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. No. 1,382,914; June 28; v. 287; p. 657.
Hrbek, Jan J., Cedar Rapids, Iowa. Marginal indexing. No. 1,383,120; June 28; v. 287; p. 696.
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Hubbard, Burtt J., Kokomo, Ind. Windshield-wing. No. 1,380,909; June 7; v. 287; p. 112.
Hubbard, Burtt J., Kokomo, Ind. Mirror for automobiles. No. 1,380,910; June 7; v. 287; p. 112.
Huber, Charles J., assignor to Huber Grate Bar & Stoking Company, Baltimore, Md. Furnace-grate. (Reissue.) No. 15,124; June 14; v. 287; p. 351.
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Hubic, Fred, Pelly, Saskatchewan, Canada. Toy. No. 1,380,911; June 7; v. 287; p. 112.
Hudson, David W., Green Bay, Wis. Interfolded paper package and manufacturing same. No. 1,381,307; June 14; v. 287; p. 239.
Huestis, Thomas B., Bristol, R. I., assignor to National India Rubber Company. Heel-trimmer. No. 1,382,642; June 28; v. 287; p. 605.
Huey, George W. (See Harvey, A. L., and Huey.)
Huff, Charles K., Christiansburg, Va. Broomholder. No. 1,380,651; June 7; v. 287; p. 62.
Huffman, Fred K. (See Lamm, J. T., and Huffman.)
Huggins, Theodore, Oakland, Calif. Dish-washing machine. No. 1,382,915; June 28; v. 287; p. 657.
Hughes, Allen H., and H. S. Curren, Rochester, N. Y. Holding means for clutch-levers. No. 1,382,643; June 28; v. 287; p. 605.
Hughes, Gwylim A. (See Mordey, William M., assignor.)
Huidobro, Rogelio Gallo, Mexico, Mexico. Bread-making machine. No. 1,380,652; June 7; v. 287; p. 62.
Hulsmann, Frederic, Pelham, N. Y. Animal-trap. No. 1,381,404; June 14; v. 287; p. 268.
Humason, Granville A., Houston, Tex. Pump. No. 1,380,476; June 7; v. 287; p. 29.
Humbert, Richard E., Montclair, assignor to Humbert Toymakers, Inc., Newark, N. J. Toy. No. 1,381,995; June 21; v. 287; p. 429.
Humbert Toymakers, Inc. (See Humbert, Richard E., assignor.)
Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,381,121; June 14; v. 287; p. 206.
Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,381,122; June 14; v. 287; p. 206.
Hungerford, Warren H. (See Peters, F. M., and Hungerford.)
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Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Battery-box. No. 1,382,980; June 28; v. 287; p. 669.
Hunter, David E., assignor to Shaw Walker Company, Muskegon, Mich. Index-card. No. 1,382,644; June 28; v. 287; p. 605.
Hunter, George C., New Haven, Conn. Band-saw machine. No. 1,381,418; June 14; v. 287; p. 260.
Hunter, John H., U. S. Army. Converting propellent powders into detonating explosives. No. 1,382,287; June 21; v. 287; p. 483.
Hurd, Zenus L., Nashville, Tenn. Non-slipping foot for ladder-legs. No. 1,382,833; June 28; v. 287; p. 641.
Hurlburt, Lawson U., Syracuse, N. Y. Vehicle-wheel. No. 1,382,087; June 21; v. 287; p. 415.
Hursey, William R., Asheville, N. C., assignor of one-fourth to B. H. Oates, Tuscaloosa, Ala. Flush-tank. No. 1,381,465; June 14; v. 287; p. 268.
Husa, Joseph F., Chicago, Ill. Clamp. No. 1,381,308; June 14; v. 287; p. 239.
Hutchins, Arthur W., Cranston, assignor to Perry and Hutchins Laundry Appliance Company, Incorporated, Providence, R. I. Ironing device. No. 1,382,360; June 21; v. 287; p. 497.
Hutchinson, Ely C. (See McAulay, C. B., and Hutchinson.)
Hutchinson, Frank L., assignor to Sterling Engineering Co., Milwaukee, Wis. Steam-trap. No. 1,382,645; June 28; v. 287; p. 606.
Hutterer, Edward G., Sanborn, Iowa. Truss. No. 1,381,123; June 14; v. 287; p. 206.
Hyams, Anita G., and F. A., San Rafael, Calif. Sack-lining machine. No. 1,381,419; June 14; v. 287; p. 260.
Hyams, Francis A. (See Hyams, Anita G., and F. A.)
Huyler's. (See Porter, Adelaide M., assignor.)
Hybinette, Noak V., Christiania, Norway, and R. L. Peek, Ottawa, Canada. Refining copper-nickel matte. No. 1,382,361; June 21; v. 287; p. 497.
Hymans, Frederick. (See Lindquist, D. L., and Hymans.)
Ickes, Peter C., assignor of one-half to E. T. Neyhard, Chanute, Kans. Knockdown tank. No. 1,381,877; June 14; v. 287; p. 347.
Ide, Harry H., La Grange, assignor to Kellogg-Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,381,195; June 14; v. 287; p. 219.
Ideal Electric & Mfg. Co., The. (See Bewley, Henry, assignor.)
Iftiger, William C., Watts, Calif. Coupling. No. 1,383,209; June 28; v. 287; p. 713.
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Imrie, Carl B., New York, N. Y. Heel-support. No. 1,380,477; June 7; v. 287; p. 29.
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India Tire & Rubber Company, The. (See Lerch, William G., assignor.)
Industrial Research Co. (See Dolbear, Clinton E., assignor.)
Ingersoll, Howard L. (See Brown, Ray M., assignor.)
Ingersoll, Jessie B., special administratrix. (See Ingersoll, Robert F.)
Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
Ingersoll-Rand Company. (See Hoffman, Paul, assignor.)
Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
Ingersoll, Robert F., deceased, by J. B. Ingersoll, special administratrix, Kellogg, Idaho, assignor to T. S. Ingersoll, San Francisco, Calif. Auto-lock. No. 1,380,478; June 7; v. 287; p. 29.
Ingersoll, T. S. (See Ingersoll, Robert F., assignor.)
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International Fuel Conservation Co. (See Anderson, Robert J., assignor.)
International Gas Recorder Manufacturing Company. (See Evans, F., and Corcos, assignors.)
International Harvester Company. (See Bidwell, Carlyle D., assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Ford, Ralph L., assignor.)
International Motor Company. (See De La Monte, Cascious H., assignor.)
International Motor Company. (See Lipcott, Fred L., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Precipitation Company. (See Welch, Harry V., assignor.)
International Time Recording Company of New York, The. (See Bryce, James W., assignor.)
Irey, John H., West Liberty, Iowa. Wall structure for corneribs and the like. No. 1,382,362; June 21; v. 287; p. 497.
Iseman, Richard B., Clarion, Pa. Automobile-turntable. No. 1,380,385; June 7; v. 287; p. 12.
Isern, Ferdinand A. (See Penning, E. C., and Isern.)
Isnow, Demetry, assignor to M. Leshing, Los Angeles, Calif. Film-winding machine. No. 1,382,288; June 21; v. 287; p. 483.
Itol, Masanobu. (See Ahuki, Kanzaburo.)
Iverson, Ludvig A., Lankin, N. D. Grain-treating machine. No. 1,382,981; June 28; v. 287; p. 607.
J and B Manufacturing Company. (See Jacobson, Edward B., assignor.)
J. & C. G. Rolinders, Mekaniska Verkstadts, Aktieboing. (See Rudqvist, Carl A., assignor.)
Jaburg Brothers. (See Schmitz, Fritz, assignor.)
Jack, Alexander G. M. (See Hadfield, R. A., Jack, and Milne.)
Jackson, Berry B., Mudlick, Ky. Insulator-support. No. 1,381,838; June 14; v. 287; p. 339.
Jackson, Charles J., Galva, Ill. Cushion-wheel. No. 1,381,996; June 21; v. 287; p. 429.
Jackson, Edmond A., Asheville, N. C. Ticket-vending machine. No. 1,381,839; June 14; v. 287; p. 339.
Jackson, George F., Byllesby, Va. Gas and air mixer. No. 1,382,363; June 21; v. 287; p. 497.
Jackson, Lewis, Simpson, Kans. Lister-cultivator. No. 1,382,364; June 21; v. 287; p. 498.
Jackson, Maxey, Emmett, Idaho. Dirigible headlight for automobiles. No. 1,381,124; June 14; v. 287; p. 206.
Jackson, Richard, Jr., San Francisco, Calif., assignor of one-third to A. R. Reese and one-third to J. W. Douglas, Denver, Colo. Basket-ball goal-indicator. No. 1,381,466; June 14; v. 287; p. 269.
Jackson, Robert E., and E. M. Jenkins, Princeton, W. Va. Flue-blower. No. 1,383,210; June 28; v. 287; p. 713.
Jacobs, Ernest H., assignor to Electrical Engineers' Equipment Company, Chicago, Ill. Low-voltage release-switch. No. 1,380,386; June 7; v. 287; p. 12.
Jacobs, Hannah. (See Jacobs, Harry and H.)
Jacobs, Harry, and H. Jacobs, New York, N. Y. Hair waving and drying apparatus. No. 1,380,803; June 7; v. 287; p. 92.
Jacobs, Julian S., assignor to John T. Slack Corporation, Springfield, Vt. Rag-stock feeder. No. 1,381,878; June 14; v. 287; p. 347.

Jacobs, Samuel A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical element. No. 1,382,088; June 21; v. 287; p. 446.
Jacobson, Arge L., assignor to L. A. Kearney, New York, N. Y. Tire-vulcanizing apparatus. No. 1,380,966; June 7; v. 287; p. 123.
Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,383,263; June 28; v. 287; p. 723.
Jacques, Alfred J., Montreal, Quebec, Canada. Drill-press. No. 1,380,912; June 7; v. 287; p. 113.
Jacques, William L., Central Falls, R. I. Handsaw. No. 1,381,997; June 21; v. 287; p. 429.
Jagerspacher, Carl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing on mordants. No. 1,382,196; June 21; v. 287; p. 465.
James, Theodore R., Robson, W. Va. Cigar and cigarette holder. No. 1,383,121; June 28; v. 287; p. 696.
Jamson, Nick. (See Contos, John A., assignor.)
Janicki, John, assignor to L. S. Szumkowski, Chicago, Ill. Speed-reducing mechanism. No. 1,382,289; June 21; v. 287; p. 484.
Jansky, Charles J., Two Rivers, Wis. Closure for graves. No. 1,381,309; June 14; v. 287; p. 239.
Janson, Sigmund, Detroit, Mich. Direction signal or indicator. No. 1,380,479; June 7; v. 287; p. 29.
Janzuck, Michael, Kokomo, Ind. Core-molding machine. No. 1,381,310; June 14; v. 287; p. 240.
Jarvis, Franklin W. (See Mies, F. P., and Jarvis.)
Jay, Alice S., Brooklyn, N. Y. Music-roll for piano-players and producing same. No. 1,381,641; June 14; v. 287; p. 301.
Jeanjaquet, Eugene, Swartz Creek, Mich. Vaginal syringe. No. 1,382,982; June 28; v. 287; p. 670.
Jeannot, William E., assignor to West Michigan Steel Foundry Co., Muskegon, Mich. Carbonizing-box, annealing-pot, and similar article. No. 1,380,894; June 7; v. 287; p. 92.
Jeapes, William C., London, England. Cinematograph-film-feeding apparatus. No. 1,381,840; June 14; v. 287; p. 339.
Jenkins, Edwin M. (See Jackson, R. E., and Jenkins.)
Jenks, George F., *et al.*, trustees. (See Eldmann, Frank L., assignor.)
Jennings, John C., Kansas City, Kans. Pillow-case. No. 1,380,480; June 7; v. 287; p. 80.
Jennings, John H., Georgetown, Conn. Rail connecting and supporting means. No. 1,382,424; June 21; v. 287; p. 510.
Jennings, Ray, La Grange, Mo. Cup. No. 1,380,481; June 7; v. 287; p. 80.
Jensen, Aage, Portland, Oreg., assignor to Jensen Creamery Machinery Company. Liquid heating or cooling apparatus. No. 1,380,967; June 7; v. 287; p. 123.
Jensen Creamery Machinery Company. (See Jensen, Aage, assignor.)
Jespersen, Aksel T., Omaha, Nebr. Wedge. No. 1,380,559; June 7; v. 287; p. 45.
Jewett, Charles E., North Andover, and F. Fitzgerald, Lawrence, Mass. Stop-motion for combs. No. 1,381,467; June 14; v. 287; p. 269.
Jicha, Mathew, Bridgeport, Ohio. Horseshoe. No. 1,381,642; June 14; v. 287; p. 302.
Johansson, George K. V., Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Flashlight signal apparatus. No. 1,382,784; June 28; v. 287; p. 633.
John, William N., Milwaukee, Wis. Chuck. No. 1,381,196; June 14; v. 287; p. 219.
John, William N., Milwaukee, Wis. Reversible tapping-chuck. No. 1,381,197; June 14; v. 287; p. 219.
Johnson, Alexander, and W. R. Anderson, Batavia, Ill. Clothesline-fastener. No. 1,381,311; June 14; v. 287; p. 240.
Johnson, Alfred E., Racine, Wis. Doughnut-cutter. No. 1,380,560; June 7; v. 287; p. 45.
Johnson, Alfred H., assignor to National-Standard Company, Niles, Mich. Lifting-jack. No. 1,381,125; June 14; v. 287; p. 206.
Johnson, Alva W. B., Birmingham, Ala. Self-service store. No. 1,380,968; June 7; v. 287; p. 124.
Johnson, Arthur K., Holly, Colo. Bushing-tool. No. 1,382,834; June 28; v. 287; p. 641.
Johnson, Arthur K., Holly, Colo. Bushing-tool. No. 1,382,835; June 28; v. 287; p. 642.
Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
Johnson, Axel, Oakland, Calif. Means for controlling the period of cook of packaged products. No. 1,380,805; June 7; v. 287; p. 92.
Johnson, Axel W., Portland, Oreg. Signal. No. 1,380,969; June 7; v. 287; p. 124.
Johnson Coin Counting Machine Company. (See Baur, Hugo J., assignor.)
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Locking device. No. 1,380,719; June 7; v. 287; p. 75.
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Locking device. No. 1,380,720; June 7; v. 287; p. 75.
Johnson, Ernest, and A. Nordquist, Gary, Ind. Coke-oven and charging mechanism. No. 1,382,916; June 28; v. 287; p. 657.
Johnson, Ernest, and A. Nordquist, Gary, Ind. Coke-oven. No. 1,382,917; June 28; v. 287; p. 917.
Johnson Fare Box Company. (See Johnson, Jay M., assignor.)
Johnson, Frank M., Mitcham, assignor of one-half to Firm of Cafferata & Co., Newark-on-Trent, England. Plaster-slab-molding machine. No. 1,380,721; June 7; v. 287; p. 76.
Johnson, Frederick L., Warren, R. I. Conduit-end protector. No. 1,381,073; June 7; v. 287; p. 144.
Johnson, Frederick L., assignor to M. W. Johnson, Warren, R. I. Wiring-conduit cap. No. 1,382,510; June 21; v. 287; p. 526.
Johnson, John C., Syracuse, N. Y. Bolt and nut lock. No. 1,380,387; June 7; v. 287; p. 12.
Johnson, Jay M., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin and ticket fare register. (Reissue.) No. 15,123; June 14; v. 287; p. 351.
Johnson, Mark E. (See Johnson, Samuel S. and M. E.)
Johnson, Mary W. (See Johnson, Frederick L., assignor.)
Johnson, Peter B., Seattle, Wash. Hydrocarbon-burner. No. 1,381,560; June 14; v. 287; p. 287.
Johnson, Samuel S., and M. E., Harrisburg, Pa. Signal device or indicator. No. 1,381,561; June 14; v. 287; p. 287.
Johnston, Allen, and C. M. Kramer, assignors to Johnston Pressed Gear Company, Ottumwa, Iowa. Wheel for lawn-mowers and the like. No. 1,382,089; June 21; v. 287; p. 446.
Johnston, Charles E., and A. J. Jorgenson, Vancouver, British Columbia, Canada. Heat producing and distributing element. No. 1,383,211; June 28; v. 287; p. 713.
Johnston, Harry M., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Collapsible tap. No. 1,381,841; June 14; v. 287; p. 340.
Johnston, Harvey H. (See Candee, A. H., and Johnston.)
Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,381,312; June 14; v. 287; p. 240.
Johnston Pressed Gear Company. (See Johnston, A., and Kramer, assignors.)
Johnston, Richard A., assignor to Barron G. Collier, Incorporated, New York, N. Y. Frame for advertising-cards. No. 1,382,646; June 28; v. 287; p. 606.
Johnston, Richard A., assignor to Barron G. Collier, Incorporated, New York, N. Y. Billboard. No. 1,382,647; June 28; v. 287; p. 606.
Jolidon, Charles J., Hartford, Conn. Firearm. No. 1,382,197; June 21; v. 287; p. 466.
Jones, Albert F., Salem, Mass. Counter-forming machine. No. 1,381,126; June 14; v. 287; p. 207.
Jones, B. O., *et al.* (See Sherwood, Charles F., assignor.)
Jones, Eugene A., Los Angeles, Calif. Spark-plug terminal. No. 1,382,090; June 21; v. 287; p. 440.
Jones, James E. (See Demorest, Edmurn L., assignor.)
Jones, John H., Boundbrook, N. J. Composition of edible fats. No. 1,381,468; June 14; v. 287; p. 269.
Jones, John H., Boundbrook, N. J. Treating oils and fats. No. 1,381,469; June 14; v. 287; p. 269.
Jones, Merl W., New Lyme, Ohio. Dispensing-measure for liquids. No. 1,383,122; June 28; v. 287; p. 696.
Jones, Oceola, Houston, Tex. Pump. No. 1,381,562; June 14; v. 287; p. 287.
Jones, Robert H., Randolph, Nebr. Wrench. No. 1,383,123; June 28; v. 287; p. 696.
Joplin, Wayman C. (See Rodgers, Jesse R., assignor.)
Jordan Carbureter Company. (See Jordan, George D., assignor.)
Jordan, Fred A. (See Swart, W. G., Jordan, Davis, and Counselman.)
Jordan, George D., Chevy Chase, D. C., assignor to Jordan Carburetor Company, Wilmington, Del. Carbureter. No. 1,381,842; June 14; v. 287; p. 340.
Jordan, Herman H., Los Angeles, Calif. Tool-box. No. 1,383,259; June 28; v. 287; p. 722.
Jordan, Perry L., Washington, Iowa. Life-saving means for aeroplanes and other airships. No. 1,383,124; June 28; v. 287; p. 296.
Jordan, Robert L., Chicago, Ill. Interlocking brake-shoe. No. 1,382,785; June 28; v. 287; p. 633.
Jorden, Louis, San Francisco, Calif. Lubricating device. No. 1,383,212; June 28; v. 287; p. 714.
Jorgenson, Andrew J. (See Johnston, C. E., and Jorgenson.)
Joseph Crosfield and Sons, Limited. (See Wheaton, Harold J., assignor.)
Joseph, Frank A., Naugatuck, Conn., assignor to L. Candee & Company. Footwear. No. 1,382,648; June 28; v. 287; p. 606.
Joseph, Frank A., Naugatuck, Conn., assignor to L. Candee & Company. Making footwear. No. 1,382,649; June 28; v. 287; p. 607.
Josephs, Julius, assignor to The Crofut & Knapp Company, New York, N. Y. Soft hat. No. 1,382,290; June 21; v. 287; p. 484.
Jourdan, John W., Las Cruces, N. Mex. Game of cards. No. 1,381,643; June 14; v. 287; p. 302.
Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
Juchtzer, Eugene E., San Francisco, Calif. Hay-bunching machine. No. 1,381,420; June 14; v. 287; p. 260.
Juelson, Edwin, assignor to American Aero Company, Chicago, Ill. Adjustable propeller-blade. No. 1,382,836; June 28; v. 287; p. 642.

Jurek, Martin, Dallas, Tex. Refrigerator-door. No. 1,382,837; June 28; v. 287; p. 642.

Juska, Christopher, Rochester, Minn. Mop. No. 1,381,879; June 14; v. 287; p. 348.

Justus, Henry W., Napanoch, N. Y. Trap. No. 1,380,971; June 7; v. 287; p. 124.

Kaehn, Henry B., assignor of one-half to T. B. Gilbert, Goltry, Okla. Rail-joint. No. 1,382,291; June 21; v. 287; p. 484.

Kafader, James O., Fort Bidwell, Calif. Hydraulic ram. No. 1,383,143; June 28; v. 287; p. 700.

Kanakaris, James, Toledo, Ohio. Time-controlled phonograph. No. 1,381,644; June 14; v. 287; p. 302.

Karbouich, John, Boston, Mass. Machine for bending angle-iron. No. 1,380,482; June 7; v. 287; p. 30.

Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,198; June 14; v. 287; p. 219.

Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,199; June 14; v. 287; p. 220.

Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,200; June 14; v. 287; p. 220.

Karitzky, John. (See Pleister, H. W., and Karitzky.)

Kass, Samuel M., Philadelphia, Pa. Mousetrap. No. 1,382,425; June 21; v. 287; p. 510.

Katcher, Joseph, Madera, Pa. Rail-joint. No. 1,382,511; June 21; v. 287; p. 526.

Kaufer Mfg. Co. (See Kaufer, Theodore, assignor.)

Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Cooking-stove. No. 1,383,213; June 28; v. 287; p. 714.

Kaufman, Herman, New Haven, Conn. Game. No. 1,381,563; June 14; v. 287; p. 287.

Kaufman, Joseph, New York, assignor to American Safety Razor Company, Brooklyn, N. Y. Stick of shaving-soap. No. 1,380,388; June 7; v. 287; p. 12.

Kaufmann, Abraham J., assignor to E., C., B., L., and A. Wolf, Philadelphia, Pa.. Display-box. No. 1,380,561; June 7; v. 287; p. 45.

Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,381,201; June 14; v. 287; p. 220.

Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,381,998; June 21; v. 287; p. 429.

Kaufmann, Waller L., Santa Ana, Calif. Mounting for spotlights. No. 1,381,313; June 14; v. 287; p. 240.

Kearney, Leo A. (See Jacobson, Arge L., assignor.)

Keating, Michael, Dayton, Ohio. Valve-plug remover. No. 1,380,562; June 7; v. 287; p. 45.

Keebler, Elmer, assignor to The Mechanical Manufacturing Company, Chicago, Ill. Viscera-inspection table. No. 1,380,563; June 7; v. 287; p. 45.

Keeney, S. H., *et al.* (See Prigan, Ernest W., assignor.)

Kehl, George A., St. Paul, Minn. Airplane. No. 1,380,391; June 7; v. 287 p. 13.

Kelleher, Mary E., Rutland, Vt. Telephone-muffler. No. 1,381,470; June 14; v. 287; p. 269.

Keller, George W., Portsmouth, Ohio. Exhaust-nozzle. No. 1,380,806; June 7; v. 287; p. 93.

Keller, Jakob, Zurich, Switzerland. Machine for glossing linen and the like. No. 1,381,471; June 14; v. 287; p. 269.

Keller, John F., Pearl, Ill. Dirigible vehicle-light. No 1,380,972; June 7; v. 287; p. 125.

Kelling, John. (See Schroedter, J. O., and Kelling.)

Kellogg Switchboard and Supply Company. (See Ide, Harry H., assignor.)

Kellogg Switchboard & Supply Company. (See Schoenwolf, Fred, assignor.)

Kelly, Joseph A. (See Kelly, Thomas F., assignor.)

Kelly, Oliver S., New York, N. Y., assignor to The National Gauge and Equipment Company, La Crosse, Wis. Cap for tank-filler openings. No. 1,382,598; June 21; v. 287; p. 543.

Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,512; June 21; v. 287; p. 526.

Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,513; June 21; v. 287; p. 526.

Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,514; June 21; v. 287; p. 527.

Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,515; June 21; v. 287; p. 527.

Kelly Springfield Tire Co. (See McClenathen R., assignor.)

Kelly, Thomas F., assignor of one-half to J. A. Kelly, Clinton, Iowa. Bed-davenport. No. 1,381,843; June 14; v. 287; p. 340.

Kelsall, Rachel, Wimbledon Park Road, England. Work-box for domestic use. No. 1,382,188; June 21; v. 287; p. 464.

Kelsea, Clarence H., Belmont, Mass. Valve mechanism for oil-cans. No. 1,380,973; June 7; v. 287; p. 125.

Kelsey, William A. (See Galland, C. N., and Kelsey.)

Kemp, John L., Charleston, S. C. Bow-facing oar. No. 1,381,923; June 21; v. 287; p. 416.

Kempton, Harrison D., Providence, R. I. Holder for safety-razor blades. No. 1,382,292; June 21; v. 287; p. 484.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,380,807; June 7; v. 287; p. 93.

Kennedy, Franklin K., Jr., U. S. Army. Gun-sling. No. 1,383,125; June 28; v. 287; p. 697.

Kennedy, George C., Waterloo, Iowa. Feeding device. No. 1,380,564; June 7; v. 287; p. 45.

Kennedy, William H., assignor of one-half to L. B. Miller, Chicago, Ill. Riveting-machine. No. 1,382,293; June 21; v. 287; p. 484.

Kenrich, Charles H. (See Snyder, O. K., and Kenrich.)

Kent, Arthur A., Ardmore, Pa. Contact device. (Reissue.) No. 15,128; June 21; v. 287; p. 545.

Kent, John T., Detroit, Mich. Table-top. No. 1,382,983; June 28; v. 287; p. 670.

Kent, Joseph, Maldon, England. Production of bores in glass. No. 1,382,650; June 28; v. 287; p. 607.

Kent, William J., New York, N. Y., assignor to The Mechanical Rubber Company. Machine for trimming flashed edges on binding. No. 1,382,651; June 28; v. 287; p. 607.

Kern, Albert L., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Door-hanger. No. 1,382,365; June 21; v. 287; p. 498.

Kerr, Augustus H., Fort Worth, Tex., assignor to said Augustus H. Kerr, J. A. Smith, J. M. Atkinson, J. A. Dacus, and W. L. Coley, trustees for an association. Pneumatic cushioned tire. No. 1,382,918; June 28; v. 287; p. 657.

Kerstetter, John H., State College, Pa. Adjustable hinge. No. 1,381,072; June 7; v. 287; p. 144.

Ketchum, Zebulum C., Ottawa, Ontario, Canada. Marking-tag for animals or birds. No. 1,382,091; June 21; v. 287; p. 446.

Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Internal-combustion engine. No. 1,380,974; June 7; v. 287; p. 125.

Kettering, Charles F., and W. A. Chryst, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Power plant. No. 1,380,975; June 7; v. 287; p. 125.

Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,380,565; June 7; v. 287; p. 45.

Kidd, Joseph, Winnipeg, Manitoba, Canada. Level. No. 1,381,844; June 14; v. 287; p. 340.

Kidder, William C. (See Smith, William W., assignor.)

Kiefer, Arthur W., Chicago, Ill. Pipe-wrench. No. 1,380,566; June 7; v. 287; p. 46.

Kiefer, Jean E., assignor to Kiefer, Pasquier & Bizot, Lausanne, Switzerland. Brick or building-block. No. 1,382,652; June 28; v. 287; p. 607.

Kiefer, Julius E. (See Zahn, Otto E., assignor.)

Kiefer, Pasquier & Bizot. (See Kiefer, Jean E., assignor.)

Kienlen, Anna C., Aurora, Ill. Rope-tightening device. No. 1,382,366; June 21; v. 287; p. 498.

Kilborn, Karl B., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Building tires. No. 1,382,367; June 21; v. 287; p. 498.

Kile, John H., Bain, Minn. Divider-board. No. 1,380,389; June 7; v. 287; p. 12.

Kilgour, David, Jr., Vancouver, British Columbia, Canada. Pipe-cutter. No. 1,380,653; June 7; v. 287; p. 62.

Kilmer, Charles, Tacoma, Wash. Store apparatus. No. 1,382,092; June 21; v. 287; p. 446.

Kimpton, Haupt & Co. (See Riley, James T., assignor.)

King, Albert, deceased; Ashton-under-Lyne, England, K. W. King, administratrix. Spiral-tube-winding machine. No. 1,382,984; June 28; v. 287; p. 670.

King, Gordon A. A., London, England. Bow and necktie. No. 1,383,214; June 28; v. 287; p. 714.

King, Israel L., Boston, Mass. Rail-joint. No. 1,380,976; June 7; v. 287; p. 126.

King, Jewel W., Memphis, Tenn. Store construction. No. 1,381,202; June 14; v. 287; p. 220.

King, John O. (See Pohl, Charles, assignor.)

King, Kathleen W., administratrix. (See King, Albert.)

Kinnear Manufacturing Company, The. (See Rush, Albert, assignor.)

Kinney, Justus R., assignor to The Kinney Manufacturing Company, Boston, Mass. Road-oiler. No. 1,382,731; June 28; v. 287; p. 622.

Kinney Manufacturing Company, The. (See Kinney, Justus R., assignor.)

Kinnlear, Philo B., assignor of one-half to D. W. Lewis, Salt Creek, Wyo. Cementing wells. No. 1,381,645; June 14; v. 287; p. 302.

Kinsman, Hermon H., and W. M. Gaylor, New York, N. Y. Game. No. 1,381,472; June 14; v. 287; p. 269.

Kintzele, Julius H., St. Louis, Mo., assignor, by mesne assignments, to Central Manufacturing Company. Gearing. No. 1,380,390; June 7; v. 287; p. 12.

Kipp, William F., Fort Lupton, Colo. Jar-closure. No. 1,382,985; June 28; v. 287; p. 670.

Kirgan, John F., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Spray-head. No. 1,381,646; June 14; v. 287; p. 303.

Kirsch, Raymond R., St. Louis, Mo. Shoe-heel. No. 1,382,732; June 28; v. 287; p. 622.

Kirstin Company, A. J. (See Stopple, Walter W., assignor.)

Kitsee, Isidor, Philadelphia, Pa. Producing nitrating liquor. No. 1,380,392; June 7; v. 287; p. 13.

Kivlan, John L., Boston, Mass. Jar-closure. No. 1,383,215; June 28; v. 287; p. 714.

Klahn, Arthur H., San Francisco, Calif. Flushing apparatus. No. 1,383,273; June 28; v. 287; p. 725.

Kleebauer, Charles P., Brooklyn, assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y. Shipping-tag envelop. No. 1,382,426; June 21; v. 287; p. 510.

Kleebauer, Charles P., Brooklyn, assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y. Clasp-envelop. No. 1,382,427; June 21; v. 287; p. 510.

Klein, Emanuel, New York, N. Y. Edible fatty product from fixed oils and fats and manufacturing same. No. 1,381,564; June 14; v. 287; p. 287.

Kless, Herman L., Houston, Tex. Safety-lock for doors and the like. No. 1,381,999; June 21; v. 287; p. 429.

Kline, Karl, Whiteriver, S. D. Ice-cutting machine. No. 1,380,977; June 7; v. 287; p. 126.

Klineline, George M., Harrisburg, Pa. Automobile-rim. No. 1,381,565; June 14; v. 287; p. 288.

Klingbeil, Gottlieb L. E., Omaha, Nebr. Device for facilitating the lubrication of vehicle-springs. No. 1,382,653; June 28; v. 287; p. 607.

Kloneck, August J., New York, N. Y. Rotary spark-gap. No. 1,382,786; June 28; v. 287; p. 633.

Knapp, A. C, Kewanee, Ill. Jar-closure. No. 1,381,473; June 14; v. 287; p. 270.

Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,380,393; June 7; v. 287; p. 13.

Kneiffe, Albert C. (See Cameron, Frank, Jr., assignor.)

Knipp, Julius W., Indianapolis, assignor to W. F. Bockhoff, Richmond, Ind. Figure wheeled toy. No. 1,381,566; June 14; v. 287; p. 288.

Knoll, Roy C., Milwaukee, Wis. Process of and apparatus for electric-arc welding. No. 1,381,647; June 14; v. 287; p. 303.

Knowles, Arthur F., Montclair, N. J. Ventilating-valve. No. 1,380,567; June 7; v. 287; p. 46.

Knowles, Lloyd G., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine for belt-knives. No. 1,380,394; June 7; v. 287; p. 13.

Koch, Georg, Darmstadt, Germany, assignor to Dr. E. Cadgene and O. Berg, Paterson, N. J. Weaving pile fabrics. No. 1,382,516; June 21; v. 287; p. 527.

Koch, Nicholas E., Los Angeles, Calif. Sleeve-puller. No. 1,382,838; June 28; v. 287; p. 642.

Koenig, Harry A., Philadelphia, Pa. Gas-iron. No. 1,383,216; June 28; v. 287; p. 714.

Kolchinsky, Ushir, Philadelphia, Pa. Convertible cane and stool. No. 1,381,845; June 14; v. 287; p. 340.

Kolva, William T., Vineland, N. J. Gas-deflector. No. 1,381,092; June 7; v. 287; p. 148.

Konz, Joseph, Olympia, Wash. Combination-calipers. No. 1,383,217; June 28; v. 287; p. 714.

Koppers Products Company. (See Darrin, Marc, assignor.)

Kops, Daniel, New York, N. Y., Apparel-corset. (Reissue.) No. 15,134; June 28; v. 287; p. 725.

Korach, Louis L., Chicago, Ill. Lock-nut. No. 1,380,395; June 7; v. 287; p. 13.

Korach, Louis L., Chicago, Ill. Window-cleaning mechanism. No. 1,382,000; June 21; v. 287; p. 429.

Korb, Fred J., Toledo, Ohio. Door-hinge. No. 1,382,654; June 28; v. 287; p. 607.

Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Converter. No. 1,380,978; June 7; v. 287; p. 126.

Kost, Stephen A., and A. L. Daniel, Buffalo, N. Y. Spring and shock-absorber. No. 1,380,722; June 7; v. 287; p. 76.

Kouwenhoven, William B., Baltimore, Md., assignor to Winchester Repeating Arms Co., New Haven, Conn. Electrical battery and bulb-tester. No. 1,380,809; June 7; v. 287; p. 93.

Kovacic, Blasius A., Detroit, Mich. Burglar-alarm. No. 1,380,808; June 7; v. 287; p. 93.

Kowalski, Juzef, Detroit, Mich. Toy acrobat. No. 1,382,517; June 21; v. 287; p. 527.

Kraft, Carl, New York, N. Y. Ash-receiving device. No. 1,381,880; June 14; v. 287; p. 348.

Kraft, Henry P., Ridgewood, N. J. Pump-coupling. No. 1,383,126; June 28; v. 287; p. 697.

Kraft, Henry P., Ridgewood, N. J. Double pump connection. No. 1,383,127; June 28; v. 287; p. 697.

Krahn, Alvin W. (See Fischedick, O. F., and Krahn.)

Kramer, Charles M. (See Johnston, A., and Kramer.)

Krantz, Carl A. and G. E., Chicago, Ill. Water-operated ventilator for toilets. No. 1,381,710; June 14; v. 287; p. 315.

Krantz, Gustavus E. (See Krantz, Carl A. and G. E.)

Krauthelm, Richard J., Newark, N. J. Sales-check holder. No. 1,382,198; June 21; v. 287; p. 466.

Kregelius, Louis M., Cleveland, Ohio. Waterproofing material and making the same. No. 1,382,985; June 28; v. 287; p. 671.

Kreipel, Leo J., New York, N. Y. Station-indicator. No. 1,381,711; June 14; v. 287; p. 315.

Kreitzer, August C., Humboldt, Kans. Liquid-fuel burner. No. 1,382,655; June 28; v. 287; p. 608.

Krengel, Charles H., Twin Falls, Idaho. Peening-tool for harness-makers. No. 1,382,093; June 21; v. 287; p. 447.

Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,380,810; June 7; v. 287; p. 93.

Krohn, P. G. (See Hill, Richard D., assignor.)

Kropf, Walter R., assignor of one-half to A. G. Siebert, San Francisco, Calif. Mattress beating and shaping machine. No. 1,382,919; June 28; v. 287; p. 658.

Krueger, Clifford E. (See Handy, A., and Krueger.)

Krupp, Leo A., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Concrete-breaking machine. No. 1,381,314; June 14; v. 287; p. 240.

Kruly, Spasoje J., Miami, Ariz. Shoveling-machine. No. 1,382,001; June 21; v. 287; p. 430.

Kruse, Ferdinand, New York, and J. Odorfer, Brooklyn, N. Y. Attachment for talking-machines. No. 1,380,811; June 7; v. 287; p. 94.

Kruse, Herman, Jersey City, and W. C., Union, N. J. Ink. No. 1,381,648; June 14; v. 287; p. 303.

Kruse, Louis J. H., Fort Wayne, Ind. Regulating-valve for air-brake systems. No. 1,383,218; June 28; v. 287; p. 715.

Kruse, William C. (See Kruse, Herman, and W. C.)

Kukac, Edward J., Chicago, Ill. Hand-mold. No. 1,382,294; June 21; v. 287; p. 484.

Kukielski, Anton, Jersey City, N. J. Elevating coal-truck. No. 1,382,428; June 21; v. 287; p. 511.

Kulp, Charles F., Wellston, Mo. Stove. No. 1,380,396; June 7; v. 287; p. 13.

Kummer, John W., Seattle, Wash. Combination rail-seat, tie-plate, and rail-tie clamp. No. 1,380,979; June 7; v. 287; p. 126.

Kunkel, Eli, North Platte, Nebr. Water-motor. No. 1,381,712; June 14; v. 287; p. 316.

Kunkel, Frederick E., Washington, D. C. Filing-drawer and card-holder. No. 1,382,429; June 21; v. 287; p. 511.

Kunz, Jakob, assignor to Board of Trustees of The University of Illinois, Urbana, Ill. Photo-electric cell, method of and means for making the same. No. 1,381,474; June 14; v. 287; p. 270.

Kunze, Arthur F., Montreal, Quebec, Canada. Couch-bed construction. No. 1,381,475; June 14; v. 287; p. 270.

Künzli, Carl. (See Schaub, H., and Künzli.)

Kupfer, David, Chicago, Ill. Machine for cutting plastic materials. No. 1,380,723; June 7; v. 287; p. 76.

Kurtz, Cyrus B., Lakewood, Ohio. Transmission-control mechanism. No. 1,381,713; June 14; v. 287; p. 316.

Küttner, Ernst W., Berlin, Germany. Manufacturing electric coils. No. 1,381,567; June 14; v. 287; p. 288.

Kuwik, Frank, Blasdell, N. Y. Fish-trapping net. No. 1,381,203; June 14; v. 287; p. 220.

Kuyser, Jan Arthur, Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Armature-winding. No. 1,382,987; June 28; v. 287; p. 671.

Kyle, George B., assignor to The Measuregraph Company, St. Louis, Mo. Mounting for measuring-machines. No. 1,382,430; June 21; v. 287; p. 511.

Labadie, Charles E., Michigan City, Ind. Hydroairship. No. 1,382,094; June 21; v. 287; p. 447.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Blank-feeder. No. 1,380,483; June 7; v. 287; p. 30.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Partitioning for boxes. No. 1,382,787; June 28; v. 287; p. 633.

La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Stacker. No. 1,382,788; June 28; v. 287; p. 633.

Lachman, Maurice, New York, N. Y. Metal pole, girder, or beam. No. 1,382,199; June 21; v. 287; p. 466.

Lacina, Frank J., Clarkson, Nebr. Dispensing-can. No. 1,382,200; June 21; v. 287; p. 466.

La Fayette Motors Company. (See White, D'Orsay M., assignor.)

Laflamme, Aldama. (See Laflamme, Arthur, assignor.)

Laflamme, Arthur, assignor of one-half to A. Laflamme, Montreal, Quebec, Canada. Adhesive composition. No. 1,380,568; June 7; v. 287; p. 46.

Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Calorimeter. No. 1,381,714; June 14; v. 287; p. 316.

Lamar, William P., Atlanta, Ga. Passenger and freight transfer system. No. 1,383,220; June 28; v. 287; p. 715.

Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Firepot. No. 1,381,924; June 21; v. 287; p. 416.

Lambert, John R., San Antonio, Tex. Structural unit. No. 1,382,095; June 21; v. 287; p. 447.

Lambert, Victor. (See De Simone Michele G., assignor.)

Lamm, John T., and F. K. Huffman, Julesburg, Colo. Radiator. No. 1,381,649; June 14; v. 287; p. 303.

Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,382,988; Jan. 28; v. 287; p. 671.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck side frame and journal-box. No. 1,382,201; June 21; v. 287; p. 466.

Landon, Charles H. (See Parker, L. H., and Landon.)

Landgraf, Frederick K. (See Dodds, E. I., and Landgraf.)

Landreth, Clarence P. (See Phillips, John W., assignor.)

Lane, Elmer E., South Berwick, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-blank-skiving machine. No. 1,382,656; June 28; v. 287; p. 608.

Lane, John P. H., Harriman, Tenn. Detachable basket-carrier. No. 1,381,476; June 14; v. 287; p. 270.

Lane, Louis, Habana, Cuba. Louver or slat window. No. 1,380,980; June 7; v. 287; p. 126.
Lang, Albert B., St. Louis, Mo. Automobile-locking apparatus. No. 1,382,431; June 21; v. 287; p. 511.
Lange, David C., College Station, Tex. Portable electric saw. No. 1,380,484; June 7; v. 287; p. 30.
Langeberg, August R., Dell Rapids, S. D. Shingling straight-edge. No. 1,380,485; June 7; v. 287; p. 31.
Langley, Sam G., Maplewood, assignor to New Jersey Patent Company, West Orange, N. J. Controlling device. No. 1,380,486; June 7; v. 287; p. 31.
Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Telephone. No. 1,380,981; June 7; v. 287; p. 127.
Lanier, Amos F., Worcester, Mass., assignors, by mesne assignments, to Hi-Lo-Jack Company. Jack. No. 1,382,733; June 28; v. 287; p. 623.
Lanning, Charles D., *et al.* (See Field, M. F., Lanning, Hathaway, Blanchard.)
Lansberry, Alda A. (See Penner, J. F., and Lansberry.)
Lapp, John C., Newark, and J. A. Haley, Irvington, N. J. Catch for jewelry and the like. No. 1,382,839; June 28; v. 287; p. 642.
Larkin, Maurice D. (See Hardy, Clarence L., assignor.)
Larkin, Paul P., South Charleston, Ohio. Hog-oiling apparatus. No. 1,381,715; June 14; v. 287; p. 316.
Larsen, Jacob C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Bolster construction for six-wheel trucks. No. 1,380,569; June 7; v. 287; p. 46.
Larsen, Sofus A. E., Copenhagen, Denmark. Bolt with divided case. No. 1,382,096; June 21; v. 287; p. 447.
Larsen, Sofus A. E., Copenhagen, Denmark. Double tubular lock. No. 1,382,097; June 21; v. 287; p. 447.
Larsen, Sofus A. E., Copenhagen, Denmark. Cylinder-lock. No. 1,383,128; June 28; v. 287; p. 697.
Larson, Charles O., De Kalb, Ill. Baggage-truck holder. No. 1,381,650; June 14; v. 287; p. 303.
Larson, Nils G., Attleboro, Mass. Valve-lifter. No. 1,380,654; June 7; v. 287; p. 62.
Larson, Walter J., Wrangell, Alaska. Halibut-fishing device. No. 1,380,655; June 7; v. 287; p. 63.
Last, Rijkent, Emkhuizen, Netherlands. Machine for making concrete pipes or the like. No. 1,382,202; June 21; v. 287; p. 466.
Latham Machinery Company. (See Weber, Henry, assignor.)
Latham, Minnie M., Fort Worth, Tex., assignor of one-third to A. Wood, Lynnville, Iowa. Washing-machine. No. 1,381,716; June 14; v. 287; p. 317.
Lathrop, Harold L., assignor to Waterbury Clock Co., Waterbury, Conn. Clock-dial back and mat. No. 1,380,812; June 7; v. 287; p. 94.
Latshaw, Adam, Dubois, Pa. Direction-indicator for vehicles. No. 1,380,982; June 7; v. 287; p. 127.
Latour, Marius C. A., Paris, France. Amplifying apparatus. No. 1,382,738; June 28; v. 287; p. 624.
Latta, Emmit G., Syracuse, N. Y. Typewriting-machine. No. 1,382,789; June 28; v. 287; p. 633.
Latta, Emmit G., Syracuse, N. Y. Typewriting-machine. No. 1,382,790; June 28; v. 287; p. 634.
Latta, Emmit G., Syracuse, N. Y. Typewriting-machine. No. 1,382,791; June 28; v. 287; p. 634.
Laurel Motors Corporation. (See Roof, Robert M., assignor.)
Laurell, John, assignor to I. Lewis Cigar Manufacturing Co., Newark, N. J. Tobacco stripping and booking machine. No. 1,380,813; June 7; v. 287; p. 94.
Lauri, Vaino, Seattle, Wash. Drafting-table. No. 1,381,477; June 14; v. 287; p. 270.
Laussucq, Henri P. L., assignor to H. Lippincott and A. J. Major, as receivers of Camden Iron Works, Camden, N. J. Quick-return slack-water-system. No. 1,381,315; June 14; v. 287; p. 240.
Lauth, Clarence H., Islington, London, England. Electric oven for cooking purposes. No. 1,380,656; June 7; v. 287; p. 63.
La Valle, Frank D., New York, N. Y. Garment-fastener. No. 1,383,129; June 28; v. 287; p. 697.
Law, Alexander H. (See Parsons, C. A., and Law.)
Law, Ralph G. (See Hill, R. R., and Law.)
Lawrence, Austin M., Montague, Mass. Hacksaw-blade. No. 1,381,478; June 14; v. 278; p. 270.
Lawrence, Nealy S. (See Lawrence, Walter M., O. B., and N. S.)
Lawrence, Oscar B. (See Lawrence, Walter M., O. B., and N. S.)
Lawrence, Walter M., O. B., and N. S., Birmingham, Ala. Dirigible headlight. No. 1,380,657; June 7; v. 287; p. 63.
Lawry, Raymond G., assignor to Roberts & Schaefer Company, Chicago, Ill. Combined screen and picking-table. No. 1,381,204; June 14; v. 287; p. 221.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,380,658; June 7; v. 287; p. 63.
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Link, lever, and the like. No. 1,380,659; June 7; v. 287; p. 63.
Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)
Lawson, Neal, Santa Barbara, Calif. Vehicle-light. No. 1,382,203; June 21; v. 287; p. 467.
Layne, Mahlon E., Memphis, Tenn. Apparatus for separating and collecting fluids in wells. No. 1,382,295; June 21; v. 287; p. 485.
Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Means for splicing thread ends. No. 1,383,130; June 28; v. 287; p. 697.
Leberecht, Frederick W., New York, N. Y. Sewing-machine attachment. No. 1,382,098; June 21; v. 287; p. 444.
Lechat, Edmond, Nantes, France. Apparatus for the manufacture of bricks or building-blocks. No. 1,383,131; June 28; v. 287; p. 698.
Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Corset and the like and fastening system therefor. No. 1,381,651; June 14; v. 287; p. 303.
Lee, Corliss E., Pittsfield, Mass., assignor to General Electric Company. Core for electrical apparatus. No. 1,380,983; June 7; v. 287; p. 127.
Lee, Hugh W. (See Matthews, T. H., and Lee.)
Lee, Thomas A., Essendon, Melbourne, Victoria, Australia. Fuse-box. No. 1,382,989; June 28; v. 287; p. 671.
Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Magazine for guns. No. 1,381,127; June 14; v. 287; p. 207.
Legband, Arthur, Scribner, Nebr. Hay-truck. No. 1,381,479; June 14; v. 287; p. 271.
Lehman, Edward G., assignor to The Berger Manufacturing Company, Canton, Ohio. Bar-rack. No. 1,380,570; June 7; v. 287; p. 46.
Leicht, Louis, assignor of one-half to J. Walter, Yonkers, N. Y. Attachment for sleds. No. 1,380,660; June 7; v. 287; p. 64.
Leininger, John J. (See Leininger, William, assignor.)
Leininger, William, New York, N. Y., assignor of one-half to J. J. Leininger, Long Island City, N. Y. Screen. No. 1,380,661; June 7; v. 287; p. 64.
Leister, William H., assignor to The United Machinery Company, Westminister, Md. Corn-husking machine. No. 1,382,792; June 28; v. 287; p. 634.
Leitzke, Reinhard F., Hustisford, Wis. Automatic coupling. No. 1,382,296; June 21; v. 287; p. 485.
Lely, George P., Parkstone Heights, England. Date-indicator. No. 1,381,881; June 14; v. 287; p. 348.
Lemm, William. (See Visintainner, Felix, assignor.)
Lenhart, Charles F., Philadelphia, Pa. Die. No. 1,380,984; June 7; v. 287; p. 125.
Lenher, Victor, Madison, Wis. Manufacture of selenium oxychlorid. No. 1,382,920; June 28; v. 287; p. 658.
Lenher, Victor, Madison, Wis. Manufacture of selenium oxychlorid. No. 1,382,921; June 28; v. 287; p. 658.
Lenher, Victor, Madison, Wis. Manufacture of selenium oxychlorid. No. 1,382,922; June 28; v. 287; p. 658.
Lennards, Frank H., Evanston, Ill. Fountain-pen. No. 1,381,571; June 14; v. 287; p. 289.
Lenz, Alvin J. D., Evanston, Ill. Jump-spark electric gas-lighter. No. 1,382,099; June 21; v. 287; p. 447.
Leonard, Arthur G., Chicago, Ill. Lock. No. 1,380,571; June 7; v. 287; p. 47.
Le Page, Alfred W., Vancouver, British Columbia, Canada. Electric heater for liquid fuel. No. 1,382,518; June 21; v. 287; p. 527.
Le Page, Alfred W., Vancouver, British Columbia, Canada. Means for heating liquid fuel. No. 1,382,519; June 21; v. 287; p. 527.
Leppert, Henry E., New Britain, assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Electric switch. No. 1,381,568; June 14; v. 287; p. 288.
Lerch, William G., Akron, assignor to The India Tire & Rubber Company, Mogadore, Ohio. Apparatus for manufacturing pneumatic-tire casings. No. 1,381,316; June 14; v. 287; p. 241.
Lerner, Harry, Brooklyn, N. Y. Electric-lamp stand. No. 1,383,132; June 28; v. 287; p. 698.
Leshing, Michael. (See Isnow, Demetry, assignor.)
Leslie, Edward A., and H. M. Brigham, Brooklyn, N. Y. Furnace for heating metals. No. 1,382,002; June 21; v. 287; p. 430.
Letsch, Frederick W., Baltimore, Md. Typographic machine. No. 1,381,205; June 14; v. 287; p. 221.
Levasseur, Paul, Fall River, Mass. Spindle-mounting. No. 1,382,990; June 28; v. 287; p. 671.
Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Combined piston and plunger-rod. No. 1,380,397; June 7; v. 287; p. 14.
Levi, Pius R., Charleston, W. Va. Dispensing attachment for cans. No. 1,380,662; June 7; v. 287; p. 64.
Lewis, Charles H., Syracuse, N. Y. Steam-generator. No. 1,382,204; June 21; v. 287; p. 467.
Lewis, David, W. (See Kinnicar, Philo B., assignor.)
Lewis, Everett C., Providence, R. I. Machine-tool fixture. No. 1,382,793; June 28; v. 287; p. 634.
Lewis, Frederick O., Dayton, Ohio. Emergency-axle for automobiles. No. 1,380,870; June 7; v. 286; p. 105.
Lewis, I., Cigar Manufacturing Co. (See Laurell, John, assignor.)
Lewis, James T., Toronto, Ontario, Canada. Windshield-cleaner. No. 1,382,205; June 21; v. 287; p. 467.
Lewis, John D., Tyrone, Okla. Axle for Ford cars. No. 1,380,985; June 7; v. 287; p. 127.
Lewis, Leroy M., Philadelphia, Pa. Making fusible links. No. 1,382,368; June 21; v. 287; p. 498.
Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Hose-mender. No. 1,382,840; June 28; v. 287; p. 642.
Levine, Benjamine, Brooklyn, N. Y. Box-bed-spring construction. No. 1,382,432; June 21; v. 287; p. 511.
Lewandowski, Jacob. (See Wojcik, Stefan, assignor.)

Liberty Bread Slicer. (See Knapp, Walter C., assignor.)
Library Bureau. (See Ohngstrand, Enoch, assignor.)
Light, Albert T., New York, N. Y. Ice-cream freezer. No. 1,380,913; June 7; v. 287; p. 113.
Lightner, Henry W., assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Drill-holder. No. 1,382,003; June 21; v. 287; p. 430.
Limont, Alexander W., assignor to Bridgeport Brass Company, Bridgeport, Conn. Sizing metal bands. No. 1,382,734; June 28; v. 287; p. 623.
Lincoln Manufacturing Company. (See Aspinwall, Robert S., assignor.)
Lind, John, near Trakean, Idaho. Gate-operating mechanism. No. 1,382,369; June 21; v. 287; p. 499.
Lindemuth, Martin E., Elizabethtown, Pa. Caponizing-rack. No. 1,381,717; June 14; v. 287; p. 317.
Linden, John O., Alburquque, N. Mex. Massage device. No. 1,380,986; June 7; v. 287; p. 127.
Lindgren, John, Lemont, Ill. Wireless control device. No. 1,380,663; June 7; v. 287; p. 64.
Lindholm, Carl T., Davenport, Iowa. Chiropractic table. No. 1,380,487; June 7; v. 287; p. 31.
Lindholm, Oscar, Chicago, Ill. Phonograph attachment. No. 1,382,370; June 21; v. 287; p. 499.
Lindquist, David L., Yonkers, N. Y., and F. Hymans, Glen Ridge, N. J., assignor to Otis Elevator Company, Jersey City, N. J., Elevator. (Reissue.) No. 15,125; June 14; v. 287; p. 351.
Lindsay, Kenneth, Cedar Rapids, Iowa. Saw-holder. No. 1,380,814; June 7; v. 287; p. 94.
Lindsay, Leroy J., Seymour, assignor to C. W. Bryant, Centerville, Iowa. Take-up and tension attachment for automobile steering devices. No. 1,380,724; June 7; v. 287; p. 76.
Lindsey, Ernest E., San Francisco, Calif. Means for depositing dough. No. 1,381,421; June 14; v. 287; p. 261.
Lindstrom, Carl T., assignor to J. T. Lindstrom, Allentown, Pa. Steam-separator. No. 1,382,100; June 21; v. 287; p. 448.
Lindstrom, John T. (See Lindstrom, Carl T., assignor.)
Linhoff, William, Pasadena, Calif. Lawn-weeder. No. 1,381,569; June 14; v. 287; p. 288.
Lininger, Herbert K., Kansas City, Mo. Grain-elevator. No. 1,381,570; June 14; v. 287; p. 289.
Link-Belt Company. (See Pratt, Howell D., assignor.)
Linville, Arthur P. and C. E., Berkeley, Calif. Grease-retainer. No. 1,382,991; June 28; v. 287; p. 671.
Linville, Clarence E. (See Linville, Arthur P. and C. E.)
Lipcott, Fred L., assignor to International Motor Company, New York, N. Y. Coupling. No. 1,382,657; June 28; v. 287; p. 608.
Lippincott, Heulings, *et al.*, receivers. (See Laussucq, Henri P. L., assignor.)
Lippincott, John W., Little Rock, Ark. Portable refrigerant-container. No. 1,380,987; June 7; v. 287; p. 128.
Litchfield, Isaac W., Washington, D. C. Selective card-index system. No. 1,382,004; June 21; v. 287; p. 430.
Little, Harry E. (See Campbell, D. M., and Little.)
Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole. No. 1,382,658; June 28; v. 287; p. 608.
Livergood, Gerald R., assignor of one-half to C. Snell, Houston, Tex. Pipe-engaging slip for rotaries. No. 1,381,074; June 7; v. 287; p. 144.
Llewelyn, Thomas, Jr., Pittsburgh, Pa. Rolling round metal bars to eliminate laps, seams, and scale. No. 1,381,572; June 14; v. 287; p. 289.
Lloyd, Guy E., Banstead, England. Means of handling, sorting, and distributing parcels, bales, and loads of goods, and the like. No. 1,380,988; June 7; v. 287; p. 128.
Lockard, Alonzo, Massillon, Ohio. Grain-sieve. No. 1,381,718; June 14; v. 287; p. 317.
Loeschner, Henry F., Fredericktown, Mo. Protractor-level. No. 1,382,923; June 28; v. 287; p. 658.
Lofts, George H., Hobart, Tasmania, Australia. Electrically heated article to avoid damage through overheating. No. 1,382,101; June 21; v. 287; p. 448.
Lombard, Nathaniel, assignor to Lombard, White Company, Worcester, Mass. Washing-machine. No. 1,382,992; June 28; v. 287; p. 672.
Lombard, Walter E., Arlington, assignor to A. O. Norton, Inc., Boston, Mass. Retarding mechanism for lifting-jacks. No. 1,383,221; June 28; v. 287; p. 715.
Lombard, White Company. (See Lombard, Nathaniel, assignor.)
Lomas, William A., Detroit, Mich. Sound-regulator for talking-machines. No. 1,382,297; June 21; v. 287; p. 485.
Long, Emil J., San Francisco, Calif., assignor to Continental Furniture Manufacturing Company. Upholstering-machine. No. 1,381,573; June 14; v. 287; p. 289.
Long, Hillary C., New York, N. Y. Skate device. No. 1,380,914; June 7; v. 287; p. 113.
Long, Hillary C., New York, N. Y. Runner device. No. 1,380,915; June 7; v. 287; p. 113.
Long, John E., Havelock, Nebr. Dirt-loading machine. No. 1,380,488; June 7; v. 287; p. 31.
Lonk, Adolph F., Chicago, Ill. Carpet-stiffener. No. 1,380,989; June 7; v. 287; p. 128.
Lonk, Adolph F., Chicago, Ill. Key-fastener. No. 1,380,990; June 7; v. 287; p. 128.
Lonk, Adolph F., Chicago, Ill. Trap. No. 1,382,298; June 21; v. 287; p. 485.
Lonney, Thomas C., assignor of one-half to E. D. Shupert, Chicago, Ill. Steering-head lock. No. 1,381,206; June 14; v. 287; p. 221.
Loughridge, Matthew H., Bogota, N. J. Automatic carrier. No. 1,381,317; June 14; v. 287; p. 241.
Lounsway, John J., Fostoria, Ohio. Portable rail-drill. No. 1,380,991; June 7; v. 287; p. 128.
Lords, Thaddeus J., assignor to Sears, Roebuck and Co., Chicago, Ill. Nail. No. 1,382,005; June 21; v. 287; p. 431.
Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust & Savings Bank of Toledo, trustee, Toledo, Ohio. Means and method for producing charges of molten glass. No. 1,382,993; June 28; v. 287; p. 672.
Lott, Clyde R., Washington, D. C., assignor to the Guardian Trust and Savings Bank of Toledo, trustee, Toledo, Ohio. Method and apparatus for making glass articles. No. 1,382,994; June 28; v. 287; p. 672.
Louden, James R., Utica, N. Y. Piston-ring gage. No. 1,381,075; June 7; v. 287; p. 144.
Louden Machinery Company, The. (See Neller, Albert H., assignor.)
Lougheed, Victor, assignor to Enterprise Foundry Company, San Francisco, Calif. Mold mixture. No. 1,380,398; June 7; v. 287; p. 14.
Lovekin, Luther D., assignor to The Lovekin Water Heater Company, Philadelphia, Pa. Thermostatic gas-valve control. No. 1,381,652; June 14; v. 287; p. 304.
Lovekin Water Heater Company, The. (See Lovekin, Luther D., assignor.)
Lowe, Clyde E. (See Clark, D. A., and Lowe, assignor.)
Lowther, George, Pittsburgh, Pa. Cap for grease-cups. No. 1,382,299; June 21; v. 287; p. 485.
Lucke, Charles E., New York, N. Y. Splitting sheet material. No. 1,383,133; June 28; v. 287; p. 698.
Lucke, Herbert R., Dallas, Tex., assignor to McIntosh & Seymour Corporation, Auburn, N. Y. Process and apparatus for the utilization of heat in oil-engines. No. 1,382,995; June 28; v. 287; p. 672.
Lucey Manufacturing Corporation. (See Zilen, V. W., and Fair, assignors.)
Ludlam, Frederick, Taunton, Mass. Flexible conveyer. No. 1,381,574; June 14; v. 287; p. 289.
Ludlow Manufacturing Associates. (See Burbank, Louis S., assignor.)
Ludwig, William, Bellaire, Ohio. Locking device for automobiles. No. 1,382,300; June 21; v. 287; p. 486.
Luebben, Melchior L., St. Louis, Mo. Machine for sharpening safety-razor blades. No. 1,382,794; June 28; v. 287; p. 634.
Luft, Sigmund, Maywood, Ill. Food product. No. 1,380,815; June 7; v. 287; p. 94.
Lukaszewski, Jozeph, Hammond, Ind. Work-clamp for bulldozers and like presses. No. 1,382,102; June 21; v. 287; p. 448.
Luke, William E., Kalispell, Mont. Artificial hand. No. 1,380,664; June 7; v. 287; p. 64.
Lukens, William R., *et al.* (See Lukens, W. R., and Gallagher, assignors.)
Lukens, William R., and C. F. Gallagher, assignors of one-fifth to A. T. Pence, one-fifth to A. B. Simpson, one-tenth to J. Gavey, one-tenth to E. F. Stevens, one-fifth to W. R. Lukens, and one-fifth to R. B. McMullen, Hillsboro, Ohio. Mechanical stock-feeder. No. 1,383,222; June 28; v. 287; p. 715.
Lund, Alfred V. E., Philadelphia, Pa., assignor of one-half to W. J. Strandwitz, Haddonfield, N. J. Memorandum card. No. 1,381,925; June 21; v. 287; p. 416.
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Compressing apparatus. No. 1,381,207; June 14; v. 287; p. 221.
Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. No. 1,381,318; June 14; v. 287; p. 241.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting mechanism. No. 1,382,006; June 21; v. 287; p. 431.
Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,381,480; June 14; v. 287; p. 271.
Lundene, Otto M., Flint, Mich. Hog-catcher. No. 1,382,520; June 21; v. 287; p. 528.
Lundgren, Carl J., Mount Jewett, Pa., assignor of one-half to H. J. Walter, Bradford, Pa. Hose-clamp. No. 1,383,134; June 28; v. 287; p. 698.
Lundie, John, New York, N. Y., and W. R. Dunham, Jr., New Haven, Conn. Railway-rail. No. 1,380,725; June 7; v. 287; p. 76.
Lundie, John, New York, N. Y., and G. W. Whiteman, Philadelphia, Pa. Tie-plate. No. 1,381,575; June 14; v. 287; p. 290.
Lundquist, Levi, Middletown, Calif. Grafting-valve. No. 1,380,992; June 7; v. 287; p. 128.
Lurie, Edward, *et al.* (See Harris, Benjamin, assignor.)
Lurie, Michael, *et al.* (See Harris, Benjamin, assignor.)
Lurie, William A., New Orleans, La. Dental forceps. No. 1,380,726; June 7; v. 287; p. 76.
Luther, John A., Schenectady, N. Y. Spark-plug. No. 1,380,399; June 7; v. 287; p. 14.
Lyding, Peter R., Sacramento, Calif. Hinge. No. 1,382,996; June 28; v. 287; p. 672.
Lynn, Arthur H., London, England, L. A. Riley, 2d, New York, N. Y., and N. E. Rambush, London, England. Gas-producer. No. 1,380,993; June 7; v. 287; p. 129.

Lynn, Leon T., Berkeley, Calif. Threading-tool. No. 1,382,841; June 28; v. 287; p. 643.

Lyon, Leonidas N., San Antonio, Tex. Treating wood. No. 1,382,103; June 21; v. 287; p. 448.

Lyons, P. J., *et al.* (See Nelson, De Witt, assignor.)

Lyster, Fleury J., Broken Hill, New South Wales, Australia, assignor, by mesne assignments, to Minerals Separation North American Corporation. Apparatus for the concentration of ores. No. 1,380,665; June 7; v. 287; p. 65.

Lytle, Charles R. (See Malligan, J., and Lytle.)

Macaulay, Malcolm. (See Stanford, M. L., and Macaulay.)

Macdonald, Angus S., Great Neck Station, N. Y., assignor to The Snead & Co. Iron Works, Jersey City, N. J. Table or desk novelty. No. 1,380,402; June 7; v. 287; p. 14.

MacDonald, William W. (See Davis, W. W., and MacDonald.)

MacDougall, Archibald J., assignor to National Electro Products Limited, Toronto, Ontario, Canada. Process and apparatus for hydrogenating oils. No. 1,381,319; June 14; v. 287; p. 241.

MacDougall, Harry W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,381,483; June 14; v. 287; p. 271.

Macfarlane, Scott B., and L. J. Barry, Newport, R. I., assignor to Government of the United States. Gyroscope. No. 1,382,372; June 21; v. 287; p. 499.

MacGregor, John. (See Holman, R. H., and MacGregor.)

Mack, Walter L. (See Trumble, John T., assignor.)

Mackintosh, Allan, Bowsman River, and F. Thompson, Sydney Mines, Canada. Nut-lock. No. 1,382,524; June 21; v. 287; p. 528.

Mackle, Thomas J. (See Clifford, C. E., and Mackle.)

MacLennan, Alexander, Clapham, London, England. Vapor-burner. No. 1,381,210; June 14; v. 287; p. 222.

Macredie, Alexander E. (See Remus, W. F., Macredie, and Cork.)

Maddox, Robert D., U. S. Army. Non-corrosive attachment for containers. No. 1,383,138; June 28; v. 287; p. 699.

Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Cultivator. No. 1,380,918; June 7; v. 287; p. 144.

Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Dust-guard. No. 1,383,003; June 28; v. 287; p. 674.

Madison Kipp Corporation. (See Erickson, John, assignor.)

Magill-Weinsheimer Co. (See Austin, Arthur C., assignor.)

Mahoney, Joseph N., Wilkinsburg, and G. L. Christman, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switch. No. 1,381,320; June 14; v. 287; p. 241.

Maier, Fred, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Matrix for vulcanizers. No. 1,380,919; June 7; v. 287; p. 114.

Mains, Gerald H., Detroit, Mich. Removal of varnish, lacquer, enamel, paint, and similar coatings from any objects or materials. No. 1,381,485; June 14; v. 287; p. 272.

Major, Alfred J., *et al.*, receivers. (See Laussucq, Henri P. L., assignor.)

Maker, Fred S., Seekonk, Mass., and R. K. Maker, Providence, R. I. Tie-clip. No. 1,381,846; June 14; v. 287; p. 341.

Maker, Ralph K. (See Maker, Fred S. and R. K.)

Makoben, Charlie, Stockton, Iowa. Switch-operating mechanism. No. 1,381,723; June 14; v. 287; p. 318.

Malligan, Joseph, and C. R. Lytle, Point Marion, Pa. Band for Ford cars. No. 1,382,305; June 21; v. 287; p. 486.

Malm, Henry, New York, N. Y. Massage-tool. No. 1,382,436; June 21; v. 287; p. 512.

Maloney, James A., Scranton, Pa. Safety-razor and strop. No. 1,381,724; June 14; v. 287; p. 318.

Mandel, William, Minneapolis, Minn. Window-sash holder. No. 1,381,422; June 14; v. 287; p. 261.

Manley Manufacturing Company, The. (See Manley, Robert E., assignor.)

Manley, Robert E., assignor to The Manley Manufacturing Company, York, Pa. Engine-stand. No. 1,380,573; June 7; v. 287; p. 47.

Mann, Maurice M., Austin, Ind. Shoe-shining stand. No. 1,382,108; June 21; v. 287; p. 449.

Mannin, George W., Chicago, Ill. Broom-trimming machine and method. No. 1,381,927; June 21; v. 287; p. 416.

Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Making articles of fabric and rubber. No. 1,382,208; June 21; v. 287; p. 468.

March, George E., Muskegon, Mich. Nozzle. No. 1,380,403; June 7; v. 287; p. 15.

Marheine, Frederick W., assignor of one-half to E. Hansen, Spokane, Wash. Sash-holder. No. 1,381,725; June 14; v. 287; p. 319.

Markus, Jacob, Corsica, S. D. Pig-forceps. No. 1,380,995; June 7; v. 287; p. 129.

Marr, Bliss W., Detroit, Mich. Nut-lock. No. 1,382,306; June 21; v. 287; p. 486.

Marr, Robert D. (See Marr, Stuart D. and R. D.)

Marr, Stuart D. and R., Malham, London, England. Steering-wheel lock. No. 1,381,726; June 14; v. 287; p. 319.

Marriott, John E., Latrobe, Pa. Artificial tooth. No. 1,380,819; June 7; v. 287; p. 95.

Mars, Charles M., Dorchester, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Textile-machine. No. 1,381,653; June 14; v. 287; p. 304.

Marsh, H. S., and R. S. Cochran, Youngstown, Ohio. Method and apparatus for reclaiming spent pickling solutions. (Reissue.) No. 15,119; June 7; v. 287; p. 149.

Martell, Albert A., Mansfield, Mass., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Device for alining and finishing shaft-bearings and the like. No. 1,382,842; June 28; v. 287; p. 643.

Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Movable zero-scale for reamers and the like. No. 1,382,843; June 28; v. 287; p. 643.

Martin, Cecil R., assignor to Frantz Manufacturing Co., Sterling, Ill. Door-hanger track and housing. No. 1,380,668; June 7; v. 287; p. 55.

Martin, Joseph. (See Deno, F. J. and Martin.)

Martin, Louis F., St. Paul, Minn. Vehicle-tire. No. 1,380,820; June 7; v. 287; p. 95.

Martin, Robert F., assignor to Robert F. Martin Corporation, New York, N. Y. Wall construction and brick therefor. No. 1,380,821; June 7; v. 287; p. 95.

Martin, Robert F., Corporation. (See Martin, Robert F., assignor.)

Martin, Truman J., Allentown, Pa. Window-glass silencer. No. 1,380,996; June 7; v. 287; p. 129.

Martin, William H., Flushing, Netherlands. Machine for finishing turbine-blades and similar articles. No 1,381,486; June 14; v. 287; p. 272.

Martindale, Homer D. (See Sheafor, Dee L., assignor.)

Maruny, Juan B. P. (See Maruny, Santiago P. and J. B. P.)

Maruny, Santiago P. and J. B. P., Barcelona, Spain. Package for containers of pharmaceutical products and the like. No. 1,381,487; June 14; v. 287; p. 272.

Marvel Manufacturing Co. (See Wicks, John V., assignor.)

Marye, Clifford P., Chicago, Ill. Method of and means for cutting screw-threads. No. 1,382,662; June 28; v. 287; p. 609.

Mason, Archibald O., Highland Park, Ill. Reliner. No. 1,382,844; June 28; v. 287; p. 643.

Mason, William C., Albany, N. Y. Traction-plate. No. 1,380,574; June 7; v. 287; p. 47.

Mason, William C., Albany, N. Y. Talking-machine. No. 1,382,373; June 21; v. 287; p. 499.

Mason, William C., New York, N. Y. Camera attachment. No. 1,382,437; June 21; v. 287; p. 512.

Mason, William L., Holyoke, Mass. Lathe-dog. No. 1,380,822; June 7; v. 287; p. 96.

Masterson Brothers *et al.* (See Poole, John H., assignor.)

Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Trailer connection. No. 1,380,490; June 7; v. 287; p. 32.

Matheny, Thurston, The Plains, Ohio, assignor of one-half to O. F. Sarson and C. L. Orr. Wrench. No. 1,381,128; June 14; v. 287; p. 207.

Mather, Gurdon C., Detroit, Mich. Double-tire carrier and lock. No. 1,381,321; June 14; v. 287; p. 242.

Matsler, Columbus U., Plainview, Tex. Combination-tool. No. 1,382,109; June 21; v. 287; p. 449.

Matthews, Charles K., Portland, Oreg. Trunk-chain. No. 1,380,727; June 7; v. 287; p. 77.

Matthews, Peter S., *et al.* (See Hotchkiss, Raymond M., assignor.)

Matthews, Thomas H., and H. W. Lee, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Clutch for turbine-driven geared propeller-shafts. No. 1,380,823; June 7; v. 287; p. 96.

Matthews, W. H., & Brother, Inc. (See Heinrich, Walter A., assignor.)

Mattie, Theodore L. (See Arata, B. A., and Mattie.)

Matty, Joseph J., Glen Jean, W. Va. Trolley-pole. No. 1,380,491; June 7; v. 287; p. 32.

Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Valve for ovens. No. 1,381,129; June 14; v. 287; p. 207.

Maulsby, Gilbert O., Birmingham, Ala. Peanut harvester and shocker. No. 1,381,211; June 14; v. 287; p. 222.

Maw, Thomas F. (See Barr, M., and Maw.)

Maxim, Hudson, Hopatcong borough, N. J. Method and mechanism for exploding submarine mines. No. 1,382,374; June 21; v. 287; p. 500.

Maxwell, Charlotte A., *et al.* (See Van Vleet, Charles W., assignor.)

Mayall, William, Toronto, Ontario, Canada. Electric heater. No. 1,381,322; June 14; v. 287; p. 242.

Mayberry, De Ella B., assignor of one-fourth to J. W. Harrison, Chicago, Ill. Street-indicator for railway-cars. No. 1,382,845; June 28; v. 287; p. 643.

Mayerson, Abl, assignor of one-half to J. S. Conroy, Chicago, Ill. Bomb. No. 1,382,307; June 21; v. 287; p. 487.

Mayle, Albert M., Toledo, Ohio. Motion-picture apparatus. No. 1,381,727; June 14; v. 287; p. 319.

Maytag Company, The. (See Snyder, Howard F., assignor.)

McArthur, Charles D., Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for tunnel-work. No. 1,380,400; June 7; v. 287; p. 14.

McAulay, Chester B., San Francisco, and E. C. Hutchinson, Oakland, assignors to Pelton Water Wheel Company, San Francisco, Calif. Fluid-level regulator. No. 1,382,735; June 28; v. 287; p. 623.

McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Chain construction. No. 1,380,916; June 7; v. 287; p. 113.

McCaa, David G., Lancaster, assignor of one-half to C. D. Ehret, Mount Airy, Philadelphia, Pa. Transmitting apparatus. No. 1,382,206; June 21; v. 287; p. 467.

McCachen, Alexander, Dunbarton, Ontario, Canada. Reversible colter. No. 1,381,576; June 14; v. 287; p. 290.

McCaffrey, Mary M., assignor of one-half to I. L. Bayless, Washington, D. C. Safety-razor. No. 1,382,301; June 21; v. 287; p. 486.

McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Pump-driving mechanism. No. 1,382,997; June 28; v. 287; p. 673.

McCallin, Francis R., Long Island City, N. Y. Fender. No. 1,382,302; June 21; v. 287; p. 486.

McCann, Robert, Columbus, Ohio. Draft-regulator for furnaces. No. 1,380,666; June 7; v. 287; p. 65.

McCarrell, William A., Milwaukee, Wis. Transmission-clutch. No. 1,380,917; June 7; v. 287; p. 114.

McCarroll, James F., Holden, La. Locomotive-driver. No. 1,382,303; June 21; v. 287; p. 486.

McCarthy, Edward F., Chicago, Ill. Carbureter. No. 1,381,208; June 14; v. 287; p. 221.

McCarthy, Edward F., assignor to Vacuum Machinery Co., Chicago, Ill. Combined feed-water heater and aspirator. No. 1,382,104; June 21; v. 287; p. 448.

McCarthy, William F., assignor to Defiance Machine Works, Defiance, Ohio. Independent feed rail drill. No. 1,382,433; June 21; v. 287; p. 512.

McCarthy, William F., assignor to Defiance Machine Works, Defiance, Ohio. Multiple-spindle drilling-machine. No. 1,382,434; June 21; v. 287; p. 512.

McCaskey Register Company (Incorporated in 1914), Alliance, Ohio. (See Hick, Harry J., assignor.)

McClenathen, Robert, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Rubber-tire-building machine. No. 1,380,667; June 7; v. 287; p. 65.

McConnell, C. D., and J. M. Bryson, Oskaloosa, Iowa. Running, starting, and burning-in attachment for motor-handling machines. No. 1,382,659; June 28; v. 287; p. 608.

McConnell, Edward B., Newark, N. J. Grate-bar and support therefor. No. 1,382,998; June 28; v. 287; p. 673.

McConnell, Grover C. (See Routt, O. L., and McConnell.)

McCormick, George G., Collinsville, Ill. Clothes-draining basket. No. 1,382,521; June 21; v. 287; p. 528.

McCoy, Ray, *et al.* (See Wheeler, Leon H., assignor.)

McCoy, Robert A. G., New York, N. Y. Game apparatus. No. 1,382,435; June 21; v. 287; p. 512.

McClimon, Jay S., and R. Wetherill, Jr., assignors to The Weldman-Seaver-Morgan Company, Cleveland, Ohio. Feed mechanism for gas-producers. No. 1,382,371; June 21; v. 287; p. 499.

McCracken, Samuel H., New Kensington, Pa. Attachment for accounting-machines. No. 1,382,999; June 28; v. 287; p. 673.

McCready, Joseph H. (See Cornwell, E. E., and McCready.)

McCutcheon, Everett N., *et al.* (See Van Sant, William S., assignor.)

McDonald, Charles E., Butte, Mont. Safety appliance. No. 1,380,816; June 7; v. 287; p. 95.

McDonald, Thomas J., Blue Ridge, Ga. Steam-generator. No. 1,381,481; June 14; v. 287; p. 271.

McDuff, Clarence L., Detroit, Mich. Pedal and control-lever lock. No. 1,380,817; June 7; v. 287; p. 95.

McElwain, Lloyd. (See Brown, Levi, assignor.)

McGee, Frank R., Steubenville, Ohio, and A. F. Nesbit, Wilkinsburg, Pa. Centrifugal gas-cleaning apparatus. No. 1,381,719; June 14; v. 287; p. 317.

McGehee, Abner J., Jackson, Tenn. Gasolene service-tank. No. 1,383,135; June 28; v. 287; p. 699.

McGehee, Abner J., Jackson, Tenn. Gasoline service-tank. No. 1,383,136; June 28; v. 287; p. 699.

McGehee, Abner J., Jackson, Tenn. Gasolene-dispensing apparatus. No. 1,383,137; June 28; v. 287; p. 699.

McGeorge, John. (See Hennessy, D. E., and McGeorge.)

McGill, Charles E., Binghamton, N. Y. Spindle-retainer. No. 1,383,000; June 28; v. 287; p. 673.

McGinley, Frederick D., Pleasant Beach, N. Y. Car-replacer. No. 1,382,105; June 21; v. 287; p. 449.

McGinn, Philip F. (See Wagner, Henry J., assignor.)

McGowan, Frank R., Lowell, Mass. Gage. No. 1,280,818; June 7; v. 287; p. 95.

McGrath, Thomas J., Schenectady, N. Y., assignor to General Electric Company. Packing. No. 1,383,001; June 28; v. 287; p. 673.

McGregor, Alexander G. (See Clark, H. A., Hill, and McGregor.)

McGuinness, Archie T., San Francisco, Calif. Artificial tooth. No. 1,382,304; June 21; v. 287; p. 486.

McGuire, Lee R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rubber extruding, cooling, and cutting apparatus. No. 1,382,207; June 21; v. 287; p. 467.

McIlvried, Edwin J., Lakewood, Ohio. Piston-rod and making said rod. No. 1,383,002; June 28; v. 287; p. 674.

McIntosh & Seymour Corporation. (See Lucke, Herbert R., assignor.)

McIntyre, Sydney S., Sedro Woolley, Wash. Winding-engine. No. 1,381,209; June 14; v. 287; p. 222.

McKallip, John C., Houston, Tex. Measuring vessel. No. 1,382,660; June 28; v. 287; p. 609.

McKeand, Robert C., Tampa, Fla. Machine for unloading and counting cocoanuts or the like articles. No. 1,382,522; June 21; v. 287; p. 528.

McKechnie, Alexander, Birmingham, England. Separating nickel. No. 1,381,720; June 14; v. 287; p. 318.

McKee Glass Company. (See Sunder, Charles A., assignor.)

McKee, James M., New Bloomfield, Pa. Lock. No. 1,382,924; June 28; v. 287; p. 658.

McKee, Ralph H., New York, N. Y. Producing pectin. No. 1,380,572; June 7; v. 287; p. 47.

McKellar, Angus, Salt Lake City, Utah. Visible-measure dispensing apparatus. No. 1,383,223; June 28; v. 287; p. 715.

McKellar, Angus. (See Seymour, J. C., and McKellar.)

McKenzie, Philip A., Houston, Tex. Bridge construction. No. 1,382,106; June 21; v. 287; p. 449.

McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,382,107; June 21; v. 287; p. 449.

McKinnie, Earle C., assignor to National X-Ray Reflector Co., Chicago, Ill. Shade-holder for lighting-fixtures. No. 1,382,661; June 28; v. 287; p. 609.

McLaughlin, Michael J., St. Louis, Mo. Making ornamental plaques. No. 1,382,925; June 28; v. 287; p. 658.

McLaughlin, Wharton B., New York, N. Y. Producing foodstuffs. No. 1,380,489; June 7; v. 287; p. 31.

McLendon, Alexander M. (See Hildreth, A. L., and McLendon.)

McLeod, Kenneth K., St. Paul, assignor of one-half to W. Corey, Minneapolis, Minn. Stop device for use with change-speed pedals of automobiles. No. 1,381,721; June 14; v. 287; p. 318.

McMillan, John L., Syracuse, N. Y. Filing device. No. 1,382,523; June 21; v. 287; p. 528.

MacMillan, John R., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Making sodium hypochlorite. No. 1,383,224; June 28; v. 287; p. 716.

McMillan, Neal, Ogden, Utah. Shade for headlights. No. 1,381,482; June 14; v. 287; p. 271.

McMullen, Robert B. (See Lukens, W. R., and Gallagher, assignors.)

McNary, James E., U. S. Army. Pack carrier for shells and projectors. No. 1,380,994; June 7; v. 287; p. 129.

McNaughton, Hart H., Marysville, Tenn. Camera. No. 1,381,722; June 14; v. 287; p. 318.

McNeill, Aaron. (See Ricke, George H., assignor.)

McNeil, Claude P. (See Rogers, F. M., and McNeil.)

McNelll, Ralph, Newark, N. J. Lightning-arrester. No. 1,382,795; June 28; v. 287; p. 635.

McNerney, James, Buffalo, assignor, by mesne assignments, to Swan & Finch Company, New York, N. Y. Measuring and filing machine. No. 1,381,926; June 21; v. 287; p. 416.

McQueen, James W., Detroit, Mich. Driving mechanism. No. 1,380,401; June 7; v. 287; p. 14.

Meade, Joseph F. (See Gilmore, W. L., and Meade.)

Measuregraph Company, The. (See Kyle, George B., assignor.)

Mechanical Manufacturing Company, The. (See Keebler, Elmer, assignor.)

Mechanical Rubber Company, The. (See Kent, William J., assignor.)

Mecky, A., Company. (See Papini, Antonio, assignor.)

Megathlin, Ralph S., Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for skiving shoe-shanks. No. 1,381,928; June 21; v. 287; p. 417.

Meier-Gaynor Manufacturing Co. (See Gaynor, John J., assignor.)

Meier, Gustave A., Norwood, and C. J. Wicher, assignors to The G. H. Strietmann's Sons Co., Cincinnati, Ohio. Combined cake and filler feeder. No. 1,382,209; June 21; v. 287; p. 468.

Meili, Otto. (See Blumberg, P., and Meili.)

Meisel, Guido. (See Burrage, A. C., Jr., and Meisel.)

Meistrell, Joseph U., Brooklyn, N. Y. Ejector-control for type-bar machines. No. 1,382,110; June 21; v. 287; p. 450.

Mekan, Frank E., Dexter, Mo. Attachment for tractors. No. 1,383,225; June 28; v. 287; p. 716.

Mellor, John, Jersey City, N. J. Metallic wiper. No. 1,381,323; June 14; v. 287; p. 242.

Menard, Joseph A., Seattle, Wash. Abrasive composition. No. 1,381,728; June 14; v. 287; p. 319.

Menchen, Joseph, New York, N. Y. Aerial torpedo and launching means. No. 1,382,375; June 21; v. 287; p. 500.

Mengel Company, The. (See Moore, John A., assignor.)

Meredith-Jones, Hubert, assignor to The Air-O-Mix Corporation, New York, N. Y. Device for mixing liquids. No. 1,380,970; June 7; v. 287; p. 124.

Mergenthaler Linotype Company. (See Barr, M., and Maw, assignors.)

Mergenthaler Linotype Company. (See Jacobs, Samuel A., assignor.)

Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)

Mergenthaler Linotype Company. (See Rogers, John R., assignor.)

Merkelbach, Albert J., Muscatine, Iowa. Steel burial-vault. No. 1,383,139; June 28; v. 287; p. 699.

Merrill, Carie J., Portland, Me. Separator. No. 1,382,846; June 28; v. 287; p. 644.

Merritt, Frank W., and A. E. Watts, Duluth, Minn. Means for automatically registering ships' draft. No. 1,380,585; June 7; v. 287; p. 47.

Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic apparatus and process. No. 1,381,882; June 14; v. 287; p. 348.

Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic process, product, and apparatus. No. 1,381,883; June 14; v. 287; p. 348.

Mertens, Louis R., assignor to C. J. Miller, Philadelphia, Pa. Steam-valve. No. 1,383,005; June 28; v. 287; p. 674.

Metal Protection Laboratories, The. (See Sorensen, Frank L., assignor.)

Metcalfe, Robert F., Erie, Pa. Method of and apparatus for burning combustible mixtures. No. 1,380,997; June 7; v. 287; p. 129.

Mestechkin, Bernard, Washington, D. C. Coating finger-rings. No. 1,382,438; June 21; v. 287; p. 513.

Metals Extraction Corporation Limited, The. (See Field, Samuel, assignor.)

Metzger, Ferdinand F., Philadelphia, Pa. Extensometer. No. 1,382,663; June 28; v. 287; p. 609.

Meushaw, Thomas H., and C. J. Diez, Baltimore, Md. Fireplug. No. 1,381,729; June 14; v. 287; p. 319.

Meyer, August, Welleton, assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp-burner. No. 1,380,728; June 7; v. 287; p. 77.

Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Inverted rectifier. No. 1,381,324; June 14; v. 287; p. 242.

Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)

Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Soaking and washing machine. No. 1,381,325; June 14; v. 287; p. 242.

Meyer, Jules M., Paris, France. Atomizing device for internal-combustion engines. No. 1,381,730; June 14; v. 287; p. 319.

Meyer, Sam, St. Louis, Mo. Ventilator for show-window. No. 1,381,326; June 14; v. 287; p. 242.

Meyer, William, *et al.* (See Recktenwald, John, assignor.)

Meyers, Samuel A., and C. Parker, San Francisco, Calif. Inclosed switch. No. 1,382,210; June 21; v. 287; p. 468.

Michaels, Robert, assignor to Biasco Manufacturing Company, Chicago, Ill. Store-front construction. No. 1,382,111; June 21; v. 287; p. 450.

Michigan Stove Company, The. (See Maul, Henry C., assignor.)

Midgley, Thomas, Jr., Lancaster, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Making hydrometers. No. 1,381,929; June 21; v. 287; p. 417.

Midgley, Thomas, Sr., Worthington, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Collapsible core. No. 1,382,007; June 21; v. 287; p. 431.

Miehle, Robert, Chicago, Ill. Inking mechanism for printing-presses. No. 1,382,525; June 21; v. 287; p. 529.

Miehle, Robert F., Jr., Chicago, Ill. Change-speed transmission mechanism. No. 1,382,526; June 21; v. 287; p. 529.

Mies, Frank P., and F. W. Jarvis; said Mies assignor, by direct and mesne assignments, to said Jarvis. Engine intake attachment. No. 1,380,824; June 7; v. 287; p. 96.

Millard, Robert K., Pittsburgh, Pa. Puzzle. No. 1,380,998; June 7; v. 287; p. 129.

Miller, Abel and P., Harrisonburg, Va. Safety-cabinet. No. 1,382,527; June 21; v. 287; p. 529.

Miller, Barnet, Rockville, Conn. Paper-roll-dispensing machine. No. 1,380,729; June 7; v. 287; p. 77.

Miller, Charles H., Liberty township, Jefferson county, Iowa. Man-lift. No. 1,382,211; June 21; v. 287; p. 468.

Miller, Charles J. (See Mertens, Louis R., assignor.)

Miller, Eben. (See Roesel, Frederick V., assignor.)

Miller, Frank S. W., Syracuse, N. Y. Trailer or wagon. No. 1,381,327; June 14; v. 287; p. 243.

Miller, Frank T., *et al.* (See Cooper, Leonard, assignor.)

Miller, George E., Oakland, Calif. Universal-joint oil-box. No. 1,382,528; June 21; v. 287; p. 529.

Miller, John A., Homewood, Ill. Amusement structure. No. 1,380,730; June 7; v. 287; p. 77.

Miller, John A., Homewood, Ill. Amusement structure. No. 1,380,731; June 7; v. 287; p. 77.

Miller John A., Homewood, Ill. Pleasure-railway structure. No. 1,380,732; June 7; v. 287; p. 77.

Miller, John W., Seattle, Wash. Liquid gage and indicator. No. 1,381,212; June 14; v. 287; p. 222.

Miller, Lewis B. (See Kennedy, William H., assignor.)

Miller, Louis G., Westmont borough, Pa. Angle-cock holder. No. 1,381,577; June 14; v. 287; p. 290.

Miller, Louis G., Westmont borough, Pa. Holder for angle-cocks. No. 1,381,578; June 14; v. 287; p. 290.

Miller, Phillip. (See Miller, Abel and P.)

Miller, Rudolph. (See Stridinger, F., and Miller.)

Miller, Rufus E., Pocono Pines, Pa. Rotary internal-combustion engine. No. 1,380,404; June 7; v. 287; p. 15.

Miller, Silas A. (See Randell, Victor E., assignor.)

Miller Train Control Corporation, The. (See Murray, William B., assignor.)

Mills, Dayton M., Armada, Mich. Airplane. No 1,380,576; June 7; v. 287; p. 47.

Mills, Gregg K., Chicago, Ill. Phonograph-transmitter. No. 1,382,212; June 21; v. 287; p. 468.

Mills, Herbert S. (See Sandell, Henry K., assignor.)

Mills, Herbert S., Chicago, Ill. Control mechanism for coin-operated devices. No. 1,382,308; June 21; v. 287; p. 487.

Milne, Isaac B. (See Hadfield, R. A., Jack, and Milne.)

Miner, William H. (See O'Connor, John F., assignor.)

Minerals Separation North American Corporation. (See Hebbard, James, assignor.)

Minerals Separation North American Corporation. (See Lyster, Fleury J., assignor.)

Minue, William E., Fredericton, New Brunswick, Canada. Film-movement mechanism of picture-machines. No. 1,383,006; June 28; v. 287; p. 674.

Minns, Raymond H., Bedford Hills, N. Y. Electric air-heater. No. 1,381,579; June 14; v. 287; p. 290.

Mintz, Nathaniel, and C. C. Hiers, St. Paul, Minn. Safety device for clothes-wringers. No. 1,381,423; June 14; v. 287; p. 261.

Mioton, Sidney F., New Orleans, La. Fluid-measuring machine. No. 1,382,439; June 21; v. 287; p. 513.

Mirmillo, Charles, by S. E. Hayes, guardian, Oakland, Calif. Breech-block mechanism. No. 1,382,796; June 28; v. 287; p. 635.

Mitchell, Grover L., Madison, Wis. Fastening device. No. 1,382,112; June 21; v. 287; p. 450.

Mitchell, John E., St. Louis, Mo. Cotton separating and cleaning machine. No. 1,381,213; June 14; v. 287; p. 223.

Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,383,007; June 28; v. 287; p. 674.

Mitchell, Leon, Dorchester, Mass. Apparatus for the process of making crullers. No. 1,382,926; June 28; v. 287; p. 659.

Mitchell Manufacturing Company. (See Mitchell, William, assignor.)

Mitchell, Sidney, New York, N. Y. Continuous pulp-beater. No. 1,380,920; June 7; v. 287; p. 114.

Mitchell, Stephen B., *et al.* (See Dunn, Felix E., assignor.)

Mitchell, William, assignor to Mitchell Manufacturing Company, Milwaukee, Wis. Ventilator. No. 1,382,736; June 28; v. 287; p. 623.

Moad, George W., Soldier, Iowa. Tool. No. 1,383,226; June 28; v. 287; p. 716.

Mock, Edward A. (See Rick, J., and Motowski, assignors.)

Mohr, Henry, Covington, Ky. Universal connection. No. 1,381,214; June 14; v. 287; p. 223.

Moir, Harry S., Chico, Calif. Savings-bank interest-indicator. No. 1,383,227; June 28; v. 287; p. 716.

Molins, Walter E., London, England. Device for taking sheets from a stack of paper or the like. No. 1,382,213; June 21; v. 287; p. 468.

Moltrup, James T., Beaver Falls, Pa. Straightening-machine. No. 1,382,309; June 21; v. 287; p. 487.

Monahan Rotary Engine Corporation. (See Sullivan Patrick J. M., assignor.)

Monarch Fleshing Machine Company. (See Schroedter, J. O., and Kelling, assignors.)

Monnett, James I., and H. S. Blynt, Yale, Okla. Cushion shoe-heel. No. 1,380,825; June 7; v. 287; p. 96.

Monsanto Chemical Works. (See Rispler, Alfred L., assignor.)

Mooers, B. M., San Francisco, and L. E. Warner, Berkeley, assignors to Motor Protector Manufacturing Company, San Francisco, Calif. Electric control system. No. 1,381,580; June 14; v. 287; p. 290.

Mooers, Benjamin M., San Francisco, and L. E. Warner, Berkeley, assignors to Motor Protector Mfg. Co., San Francisco, Calif. Electric-circuit-protecting apparatus. No. 1,381,581; June 14; v. 287; p. 291.

Mooers, Marion, San Francisco, Calif. Window-ventilator. No. 1,382,927; June 28; v. 287; p. 659.

Moon, Robert B., Philadelphia, Pa. Draft-door-opening device. No. 1,382,797; June 28; v. 287; p. 635.

Moor, William C., Havilah, Ontario, Canada. Aero angle-meter or level-register. No. 1,380,999; June 7; v. 287; p. 130.

Moore, Alfred M., Malden, assignor to Moore & Company, Everett, Mass. Wire-stitching machine. No. 1,380,733; June 7; v. 287; p. 78.

Moore & Company. (See Moore, Alfred M., assignor.)

Moore, Harrison E., assignor to Simplex Ice Machine Company, Fort Worth, Tex. Refrigerating apparatus. No. 1,382,214; June 21; v. 287; p. 469.

Moore, John A., assignor to The Mengel Company, Louisville, Ky. Machine for punching and cutting tape. No. 1,380,492; June 7; v. 287; p. 32.

Moore, Otto, Frankfort, Ind. Trolley-wheel. No. 1,382,664; June 28; v. 287; p. 610.

Moore, Stuart B., Houston, Tex. Roadway. No. 1,383,228; June 28; v. 287; p. 716.

Moore, Thos. L., *et al.* (See Flood, John R., assignor.)

Moore, Wade W., Pittsburg, assignor to J. E. Roach, Oakland, Calif. Lead-pencil. No. 1,382,928; June 28; v. 287; p. 659.

Morano, Samuel, Wendell, W. Va. Railway-tie and rail-locking device. No. 1,381,488; June 14; v. 287; p. 272.

Mordey, William M., Westminster, assignor to himself and G. A. Hughes, Croyden, England. Electrical search-light and other projectors. No. 1,382,215; June 21; v. 287; p. 469.

Morey, Amos F., Oklahoma, Okla. Pneumatic tire. No. 1,382,216; June 21; v. 287; p. 469.

Morgan, John H., Harrowgate, England. Saw for cutting wood, metal, or other substances. No. 1,381,930; June 21; v. 287; p. 417.

Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Spring suspension for track-laying tractors. No. 1,380,577; June 7; v. 287; p. 48.

Morris, Charles A., Augusta, Colo. Irrigating device. No. 1,381,731; June 14; v. 287; p. 320.

Morris, John O., Washington, D. C. Tobacco-leaf stemming, straightening, and booking machine. No. 1,381,489; June 14; v. 287; p. 272.

Morris, Joseph F., Derby, Conn. Box for cash-carriers. No. 1,381,582; June 14; v. 287; p. 291.

Morris, Richard. (See Hasse, F. A., and Morris.)

Morrison, Dudley R., Anderson, Ind. Hydrocarbon-engine. No. 1,382,008; June 21; v. 287; p. 431.

Morrison, James W., and T. W. Holt, Staleybridge, England. Doubling, twisting, and winding and like frame. No. 1,382,217; June 21; v. 287; p. 469.

Morrison, John M., Plattsburg, N. Y. Switch-lock. No. 1,381,732; June 14; v. 287; p. 320.

Morrissey, Patrick W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Conveyer. No. 1,381,328; June 14; v. 287; p. 243.

Morton, Cavendish. (See Rathbone, R. L. B., and Morton.)

Morton, Henry. (See Berthelsen, Anders L., assignor.)

Morton, Samuel S., Harrisburg, Pa. Lever-lock. No. 1,382,529; June 21; v. 287; p. 529.

Morse, Clyde S., assignor of one-half to S. S. Morse, De Kalb, Ill. Resilient tire. No. 1,382,376; June 21; v. 287; p. 500.

Morse, Stella S. (See Morse, Clyde S., assignor.)

Morse Twist Drill & Machine Company. (See Thomas, James, assignor.)

Moses, Jacob M. (See Fry, Ernest T., assignor.)

Moses, William B., Watertown, assignor to Gray & Davis Inc., Cambridge, Mass. Ignition apparatus. No. 1,383,229; June 28; v. 287; p. 717.

Mosmieri, Leonardo, Florence, Italy. Case for steam-boiler levels. No. 1,381,130; June 14; v. 287; p. 207.

Moss, Benjamin, New York, N. Y. Marking-tool. No. 1,381,131; June 14; v. 287; p. 208.

Moss, Isidor, Brookline, Mass. Snap-fastener. No. 1,380,826; June 7; v. 287; p. 96.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam-head. No. 1,380,669; June 7; v. 287; p. 65.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,380,670; June 7; v. 287; p. 66.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam-head. No. 1,380,671; June 7; v. 287; p. 66.

Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Bobbin. No. 1,380,672; June 7; v. 287; p. 66.

Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)

Motor Protector Manufacturing Company. (See Mooers, B. M., and Warner, assignors.)

Motowski, John. (See Rick, J., and Motowski.)

Mott, Samuel B., Noblesville, Ind. Ash-remover. No. 1,381,132; June 14; v. 287; p. 208.

Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. High-altitude flying-machine. No. 1,380,406; June 7; v. 287; p. 15.

Mount, Thomas L., Philadelphia, Pa. Generator suspension. No. 1,381,329; June 14; v. 287; p. 243.

Mueller, Max M., Chicago, Ill. Steering-gear lock for motor-vehicles. No. 1,381,000; June 7; v. 287; p. 130.

Mueller, Philip J. (See Letirick, T. L., and Mueller.)

Mull, Arthur, Chicago, Ill. Wheel-protector. No. 1,381,583; June 14; v. 287; p. 291.

Müller, Jakob, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine air-compressor. No. 1,381,133; June 14; v. 287; p. 208.

Mullins, Shelby S., Stuttgart, Ark. Bead-clasp base. No. 1,380,827; June 7; v. 287; p. 96.

Mulock, William R., Winnipeg, Manitoba, Canada. Noise-reducing typewriter-platen. No. 1,382,218; June 21; v. 287; p. 469.

Multicolor Printing and Machinery Company. (See Galland, C. N., and Kelsey, assignors.)

Mulvane, Bert, Cleveland, Ohio. Automobile-jack. No. 1,380,405; June 7; v. 287; p. 15.

Mumford Molding Machine Company. (See Gates, Philetus W., assignor.)

Munger, Frederick, Ellsworth, Nebr., assignor of one-half to C. Von Woehrmann, Hill City, S. D. Cutting tool. No. 1,382,219; June 21; v. 287; p. 470.

Munning, A. P., & Co. (See Taylor, Floyd T., assignor.)

Munson, Henry L., Fort Wayne, Ind. Heating device. No. 1,380,673; June 7; v. 287; p. 66.

Murphey, Frank P., and C. E. Bickel, Butler, Pa. Chain-attaching device. No. 1,380,921; June 7; v. 287; p. 114.

Murphy, Charles G., Trafford, Pa. Hinge. No. 1,383,230; June 28; v. 287; p. 717.

Murphy, John F., Toledo, Ohio. Freight-car-door lock. No. 1,381,215; June 14; v. 287; p. 223.

Murphy, Lawrence A., St. John, New Brunswick, Canada. Car-coupling. No. 1,382,530; June 21; v. 287; p. 530.

Murphy, Walter P. (See Sisson, Vinton E., assignor.)

Murphy, Walter P., Chicago, Ill. Automatic train-pipe-connector support. No. 1,381,584; June 14; v. 287; p. 291.

Murray, Henry L., and A. Guy, Palmerston, assignors to Joseph Nathan and Company, Limited, Wellington, New Zealand. Machine for compressing and packing commodities. No. 1,380,674; June 7; v. 287; p. 66.

Murray, Thomas E., Brooklyn, N. Y. Circulation-tube for water-tube steam-boilers. No. 1,382,220; June 21; v. 287; p. 470.

Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-controlling system. No. 1,380,578; June 7; v. 287; p. 48.

Muscente, Fausto A., Providence, R. I. Lingerie-clasp. No. 1,381,216; June 14; v. 287; p. 223.

Muschewske, E., and W. W. Wood, Los Angeles, Calif. Reclaiming rubber. No. 1,381,654; June 14; v. 287; p. 304.

Muspratt, Walter G., San Francisco, Calif. Hair-cutter. No. 1,382,377; June 21; v. 287; p. 500.

Myers, Eugene V., East Orange, N. J., assignor to A. Schroeder's Son, Incorporated, Brooklyn, N. Y. Double pump-coupling. No. 1,383,008; June 28; v. 287; p. 675.

Myers, Frank L. (See Anspach, F. M., and Myers.)

Myers, Harry H., Bessemer, Ala. Gas-cock and faucet protector. No. 1,380,675; June 7; v. 287; p. 67.

Myers, Lawrence A., Visalia, Calif. Centrifugal pump. No. 1,382,665; June 28; v. 287; p. 610.

N. C. L. Engineering Corporation. (See Noble, Warren, assignor.)

Naamlooze Vennootschap Industrieele Maatschappij voorheen Noury & van der Lande. (See Sutherland, Egbert C., assignor.)

Nacimento, Romeo, San Francisco, Calif. Making leaven. No. 1,380,828; June 7; v. 287; p. 97.

Nagel, Thies, Hamburg, Germany. Tow-hook for steam-tugs. No. 1,381,484; June 14; v. 287; p. 272.

Nakagawa, Shoichi, San Jose, Calif. Storm and sun shield. No. 1,380,829; June 7; v. 287; p. 97.

Nash, Alexander Q., St. Louis, Mo. Spark-gap device. No. 1,382,113; June 21; v. 287; p. 450.

Naterman, Henry D., Los Angeles, assignor of one-half to Frank W. Winship, Riverside, Calif. Combination rule and blotter-holder. No. 1,383,140; June 28; v. 287; p. 700.

Nathan, Joseph, and Company. (See Murray, H. L., and Guy, assignors.)

National Acme Company, The. (See Smith, Oscar A., assignor.)

National Aniline & Chemical Company. (See Chebotaref, Leo F., assignor.)

National Biscuit Company. (See Bush, F. P., Serr, and Powell, assignors.)

National Biscuit Company. (See Oakes, Earle T., assignor.)

National Carbon Company. (See Brooks, William C., assignor.)

National Cash Register, The. (See Fuller, Frederick L., assignor.)

National Cash Register, The. (See Skerl, Francesco, assignor.)

National Dump Car Co. (See Hindahl, David, assignor.)

National Dump Car Company. (See Hart, Harry S., assignor.)

National Electric Products. (See MacDougall, Archibald J., assignor.)

National Equipment Company. (See Bausman, George A., assignor.)

National Gauge and Equipment Company. (See Kelly, Oliver S., assignor.)

National India Rubber Company. (See Huestis, Thomas B., assignor.)

National Machinery Co., The. (See Clouse, William L., assignor.)

National Sanitary Service Company, The. (See Sellers, James H., assignor.)

National-Standard Company. (See Johnson, Alfred H., assignor.)

National Steel Fabric Company. (See Benedict, Edward L., assignor.)

National Tube Company. (See Johnston, Harry M., assignor.)

National X-Ray Reflector Co. (See McKinnie, Earle C., assignor.)

Nawacka, Juzefa, administratrix. (See Dybowski, Stanley.)

Nayer, Carl F., Chicago, Ill. Aeroplane. No. 1,382,847; June 28; v. 287; p. 644.

Naylor, H. C., *et al.* (See Prigan, Ernest W., assignor.)

Neely, John M., Lima, Ohio. Pipe-clamp. No. 1,381,217; June 14; v. 287; p. 223.

Neff, Abner R., Long Beach, Calif. Electric popcorn-popper. No. 1,380,579; June 7; v. 287; p. 48.
Neidlinger, George H., East Orange, N. J. Closing-guide for collapsible tubes. No. 1,383,141; June 28; v. 287; p. 700.
Neill, Burton J. (See George, Frank L., assignor.)
Neilly, Daniel H., Bradford, Pa. Violin. No. 1,382,310; June 21; v. 287; p. 487.
Neilson, Albert H., Tulsa, Okla. Multiple sucker-rod socket. No. 1,382,602; June 21; v. 287; p. 544.
Nell, James A., New Britain, Conn. Surface and center indicator. No. 1,380,580; June 7; v. 287; p. 48.
Neller, Albert H., assignor to The Louden Machinery Company, Fairfield, Iowa. Combined trolley and hoist. No. 1,380,830; June 7; v. 287; p. 97.
Nelson, Andrew E., De Kalb, Ill. Saw-set. No. 1,383,009; June 28; v. 287; p. 675.
Nelson, Carl, and F. Snyder, Council Bluffs, Iowa. Car-door. No. 1,380,831; June 7; v. 287; p. 97.
Nelson, Carl A., Moline, Ill. Faucet. No. 1,383,231; June 28; v. 287; p. 717.
Nelson, De Witt, assignor of one-third to P. J. Lyons, Minneapolis, Minn., and one-third to J. F. Robinson, Steele, N. D. Portable loader. No. 1,381,585; June 14; v. 287; p. 291.
Nelson, Edward G. (See Wright, Charles B., assignor.)
Nelson, Per O., Minneapolis, Minn. Builder's tool. No. 1,380,407; June 7; v. 287; p. 15.
Nemethy, Charles, Yonkers, N. Y. Toy. No. 1,382,009; June 21; v. 287; p. 431.
Nesbit, Arthur F. (See McGee, F. R., and Nesbit.)
Nesbitt, James A., *et al.* (See Dunn, Felix E., assignor.)
Neuls, Joseph D., assignor, by mesne assignments, to The Pacific R. & H. Chemical Corporation, Los Angeles, Calif. Insecticide and fumigation process. No. 1,381,586; June 14; v. 287; p. 291.
New Jersey Foundry and Machine Company. (See Hescock, Ethan N., assignor.)
New Jersey Patent Company. (See Langley, Sam G., assignor.)
Newborn, John C., Hagerman, N. Mex. Mattress. No. 1,382,531; June 21; v. 287; p. 530.
Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Axle construction. No. 1,381,218; June 14; v. 287; p. 223.
Newhall, Henry B., Plainfield, N. J. Conduit or cable clamp and bridle-ring. No. 1,381,219; June 14; v. 287; p. 224.
Newhall, Henry B., Plainfield, N. J. Conduit or cable clamp and bridle-ring. No. 1,381,220; June 14; v. 287; p. 224.
Newhall, Henry B., executor. (See Karitzky, John, assignor.)
Newhall, Henry B., Jr., executor. (See Pleister, H. W., and Karitzky, assignors.)
Newhall, Henry B., Jr., executor. (See Pleister, Henry W., assignor.)
Newman, Louis C. (See Brown, Charles J., assignor.)
Newton, Richard T., New York, N. Y. Liquid-gage. No. 1,382,532; June 21; v. 287; p. 530.
Newton, Richard T., Nutley, N. J. Vehicle. No. 1,382,533; June 21; v. 287; p. 530.
Neyhard, Edward T. (See Ickes, Peter C., assignor.)
Niagara Alkali Company. (See MacMillan, John R., assignor.)
Nicholas, Edward, Cambridge, Mass. Ash-sifter. No. 1,380,832; June 7; v. 287; p. 97.
Nicholas, Joseph J., assignor to Albert F. W. Vick Company, Philadelphia, Pa. Filler for cavities in trees. No. 1,380,922; June 7; v. 287; p. 115.
Nichols, Raymond W. (See Wright, G. W., and Nichols.)
Nicholson, Frank C. (See Udy, M. J., and Nicholson.)
Niedziela, Antoni, Manchester, N. H. Curtain-fixture. No. 1,383,142; June 28; v. 287; p. 700.
Nielsen, Hans J., San Francisco, Calif. Key-guard. No. 1,381,424; June 14; v. 287; p. 261.
Niesner, John E. (See Eichensehr, G. C., and Niesner.)
Niesz, Franklin B., Canton, Ohio, assignor to The Bucher and Gibbs Plow Company. Gang-plow. No. 1,380,581; June 7; v. 287; p. 48.
Nihart, Frank B., Bay Minette, Ala. Window-fastener for auto-curtains. No. 1,382,666; June 28; v. 287; p. 610.
Nilson, A. H., Machine Co., The. (See Olson, Mauritz, assignor.)
Nin y Martinez, Antolin, Santurce, Porto Rico. Resilient wheel. No. 1,383,004; June 28; v. 287; p. 674.
Nishi, Chotoku, San Francisco, Calif. Apparatus for manufacturing porcelain jacket-crowns. No. 1,382,010; June 21; v. 287; p. 431.
Nissen, Peter L., Kansas City, Mo., assignor to The United States Automatic Fire Alarm Company. Automatic circuit-breaker. No. 1,380,493; June 7; v. 287; p. 32.
Nitsch, Frederick L., assignor, by mesne assignments, to G. F. Sax, Syracuse, N. Y. Machine for shaping candle ends. No. 1,380,582; June 7; v. 287; p. 48.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Perforating-machine. No. 1,382,378; June 21; v. 287; p. 500.
Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Bolt-nut. No. 1,381,587; June 14; v. 287; p. 292.
Noeth, Michael, Chicago, Ill. Heating-stove. No. 1,382,667; June 28; v. 287; p. 610.
Nordiska Kullager Aktiebolaget. (See Welbull, Ernst H. W., assignor.)
Nordling, Emil. (See Christiansen, C., and Nordling.)
Nordquist, Arthur. (See Johnson, E., and Nordquist.)
Norgell, Thomas J., Alois, Wis. Envelop. No. 1,382,114; June 21; v. 287; p. 450.
Norman, Ashley C., Battersea Park, London, England. Non-skid device for motor and other vehicles. No. 1,381,001; June 7; v. 287; p. 130.
North East Electric Company. (See Dorsey, Farnum F., assignor.)
Norton, A. O., Inc. (See Lombard, Walter E., assignor.)
Norton, Charles H., Worcester, Mass., assignor to Norton Company. Mounting for grinding-machine spindles. No. 1,382,606; June 21; v. 287; p. 544.
Norton Company. (See Norton, Charles H., assignor.)
Norwood, Harry G., assignor to W. Fuld, Baltimore, Md. Folding table. No. 1,381,588; June 14; v. 287; p. 292.
Noseworthy, Stuart, Cambridge, Mass. Combination hammer and hatchet. No. 1,383,232; June 28; v. 287; p. 717.
Nowlin, Aubrey C., Sherman, Tex. Sign. No. 1,382,311; June 21; v. 287; p. 487.
Oakes, Earle T., assignor, by mesne assignments, to National Biscuit Company, New York, N. Y. Caseinfung-oil product and producing the same. No. 1,380,494; June 7; v. 287; p. 32.
Oates, Basil H. (See Hursey, William R., assignor.)
Obdyke, Benjamin P., Inc. (See Brown, J. W., and Hess, assignors.)
O'Brien, Joseph F., *et al.* (See Wheeler, Leon H., assignor.)
O'Connor, John, New York, N. Y. Soft-collar holder. No. 1,381,733; June 14; v. 287; p. 320.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem draft-gear for railway-cars. No. 1,382,221; June 21; v. 287; p. 470.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,382,222; June 21; v. 287; p. 470.
Odorfer, John. (See Kruse, F., and Odorfer.)
Oe, Eiichiro. (See Shibata, T., and Oe.)
Oelenschlager, John W., and V. B. Arkless, Norristown, Pa. Safety-gate for railway-crossings. No. 1,382,534; June 21; v. 287; p. 530.
Offen, George C., Moose Jaw, Saskatchewan, Canada. Aeroplane. No. 1,382,535; June 21; v. 287; p. 535.
Offutt, Thomas M., assignor of one-fifth to E. H. Cushing, Connersville, Ind. Heating system. No. 1,381,490; June 14; v. 287; p. 273.
Ogden, Jacob W., assignor, by mesne assignments, to Universal Stamping Machine Company, Stamford, Conn. Feed mechanism for machines for marking mail, &c. No. 1,381,589; June 14; v. 287; p. 292.
Ohme, Walter F., Minneapolis, Minn. Collapsible holding device. No. 1,382,115; June 21; v. 287; p. 450.
Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Filing cabinet or tray. No. 1,381,401; June 14; v. 287; p. 273.
Okell, James H., assignor to Okell Well Machinery Company, Los Angeles, Calif. Rotary table. No. 1,382,536; June 21; v. 287; p. 531.
Okell Well Machinery Company. (See Okell, James H., assignor.)
Olbon, John A., Paterson, N. J. Guide for winding-machines. No. 1,381,492; June 14; v. 287; p. 273.
Oldham, F. Bert, Auburn, Me. Wrapper. No. 1,381,425; June 14; v. 287; p. 261.
Oliver, Edd C., Adrian, Mich. Pulley. No. 1,380,495; June 7; v. 287; p. 32.
Oliver, Stacy, Chicopee Falls, Mass. Automatic pistol. No. 1,381,590; June 14; v. 287; p. 292.
Olsen, Charles G., Portland, Oreg. Drum. No. 1,381,494; June 14; v. 287; p. 274.
Olsen, Harold, assignor to P. Becker and G. Becker, New York, N. Y.; said P. Becker executor of said G. Becker deceased. Etching-machine. No. 1,383,010; June 28; v. 287; p. 675.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Tool-dressing device. No. 1,381,493; June 14; v. 287; p. 273.
Olson, Mauritz, assignor to The A. H. Nilson Machine Co., Bridgeport, Conn. Wire-forming machine. No. 1,382,379; June 21; v. 287; p. 501.
Olson, Nels L., Detroit, Mich. Spring suspension. No. 1,380,408; June 7; v. 287; p. 16.
Olson, Nels L., Highland Park, Mich. Automatic tension-regulator for vehicle-springs. No. 1,380,409; June 7; v. 287; p. 16.
Olson, Nels L., Highland Park, Mich. Resilient wheel. No. 1,382,537; June 21; v. 287; p. 531.
Olson, Olaf H., Kensington, New South Wales, Australia, assignor to W. J. W. Strong, Melbourne, Victoria, Australia. Temperature-indicating apparatus. No. 1,382,116; June 21; v. 287; p. 451.
Olsson, Zacharias, Brooklyn, assignor to Aug. Rust-Oppenheim, New York, N. Y. Apparatus for indicating the condition of coal combustion. No. 1,383,144; June 28; v. 287; p. 701.
O'Neill, Arthur S., Wilmington, Del. Solvent recovery. No. 1,381,002; June 7; v. 287; p. 130.
O'Neill, Haylett, Larchmont, and S. H. Payne, Brooklyn, N. Y. Slide-rule. No. 1,382,011; June 21; v. 287; p. 432.

Ooley, Anderson, Colorado Springs, Colo. Tie-plate and rail-anticreeper. No. 1,382,848; June 28; v. 287; p. 644.
Opitz, Fred M., Racine, Wis. Radiator-core. No. 1,381,655; June 14; v. 287; p. 304.
Oppenheimer, Edgar A., Chicago, Ill., assignor to N. D. Baker, Secretary of War, trustee. Duplicator. No. 1,382,312; June 21; v. 287; p. 488.
Opočenský, John, Chicago, Ill. Dish-washer. No. 1,382,117; June 21; v. 287; p. 457.
O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,382,538; June 21; v. 287; p. 531.
Ordnance Engineering Corporation. (See Bergman, Axel G., assignor.)
O'Rourke, John F., New York, N. Y. Means for supporting tunnel-lining segments. No. 1,382,668; June 28; v. 287; p. 611.
Orr, C. L., *et al.* (See Matheny, Thurston, assignor.)
Ortgies, Heinrich, Erfurt, Germany. Self-loading pistol. No. 1,382,315; June 21; v. 287; p. 488.
Osborn, Michael E., and J. R. Wollan, Midland, Pa. Automobile-tire. No. 1,380,496; June 7; v. 287; p. 33.
Ostafijchuk, Iwan, Port William, Ontario, Canada. Combination article of furniture. No. 1,381,134; June 14; v. 287; p. 208.
Ostrander, James, assignor to Grapho-Metal Packing Company, Indianapolis, Ind. Yieldable packing. No. 1,381,931; June 21; v. 287; p. 417.
Otis Elevator Company. (See Lindquist, D. L., and Hymans, assignors.)
Otis Elevator Company. (See Rothenberg, Arthur C., assignor.)
Otten, Lawrence F., Newport, Ky. Buckle for personal wear. No. 1,382,737; June 28; v. 287; p. 623.
Otto, Marius-Paul, Paris, France. Treatment of wood for seasoning it. No. 1,381,656; June 14; v. 287; p. 304.
Otto, Maximilian J., New York, N. Y. Hot-air furnace. No. 1,380,734; June 7; v. 287; p. 78.
Oves, Henry B., Erie, Pa. Dish-washing machine. No. 1,381,221; June 14; v. 287; p. 224.
P. R. B. Pump Co. (See Price, S. C., and Richardson, assignors.)
Pacific R. & H. Chemical Corporation, The. (See Neuls, Joseph D., assignor.)
Package Machinery Company. (See Smith, Elmer L., assignor.)
Packard Motor Car Company. (See Ashmun, Ernest E., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Packard Motor Car Company. (See McCain, George L., assignor.)
Paeplow, Charles H., Buffalo, N. Y. Apparatus for use in making belts or the like. No. 1,380,833; June 7; v. 287; p. 98.
Palmer-Bee Company. (See McBride, Jesse E., assignor.)
Palmer, Eugene G. (See Townsend, Floyd E., assignor.)
Palmer, Ray B., Norwich, N. Y. Ironing-board. No. 1,381,076; June 7; v. 287; p. 145.
Palmer, William H., and G. E. Davies, Montreal, Quebec, Canada. Mast-trimming mechanism. No. 1,380,735; June 7; v. 287; p. 78.
Palmer, William M., Buffalo, N. Y. Advertising device. No. 1,380,497; June 7; v. 287; p. 33.
Pansa, Andrea G. M., Bristol, R. I. Automobile signaling device. No. 1,382,929; June 28; v. 287; p. 659.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Faucet-clamp. No. 1,380,923; June 7; v. 287; p. 115.
Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Switch and contact mechanism for electric-current-regulating plugs and sockets. No. 1,383,011; June 28; v. 287; p. 675.
Parfett, Frank. (See Buckle, G. F., and Parfett.)
Parker, Charles. (See Meyers, S. A., and Parker.)
Parker, Clark W. (See Hastings, R. W., and Parker.)
Parker, Clark W., New York, N. Y. Tractor axle and wheel. No. 1,380,583; June 7; v. 287; p. 49.
Parker, Clark W., New York, N. Y. Lubricator for vehicle-brakes. No. 1,380,584; June 7; v. 287; p. 49.
Parker, John B. (See Fountain, J. B., and Parker.)
Parker, Lee H., Boston, and C. H. Landon, Wollaston, assignors to Spray Engineering Company, Boston, Mass. Spray-nozzle and distributing liquid. No. 1,380,834; June 7; v. 287; p. 98.
Parker, Lee H., Boston, and C. H. Landon, Wollaston, assignors to Spray Engineering Company, Boston, Mass. Spray-nozzle and distributing liquid. No. 1,381,734; June 14; v. 287; p. 320.
Parker, Mannie B., Oklahoma, Okla. Freeze-expansion-absorbing device. No. 1,381,426; June 14; v. 287; p. 261.
Parker, Walter L., Co. (See Gleason, Stephen R., assignor.)
Parks-Cramer Company. (See Cramer, S. W., and Hodge, assignor.)
Parks, Dennis, St. Louis, Mo. Heel-blank separator and method of and apparatus for using same. No. 1,381,735; June 14; v. 287; p. 320.
Parks, Eugene F., Winston-Salem, N. C. Insect-trap. No. 1,380,585; June 7; v. 287; p. 49.
Parry, William H., Fayetteville, N. C. Finger fence and protector. No. 1,380,410; June 7; v. 287; p. 16.
Parson, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parson. Means for detecting or measuring moisture. No. 1,383,233; June 28; v. 287; p. 717.
Parsons, Frederick W., Cleveland, Ohio. Cross-slide for lathes. No. 1,382,380; June 21; v. 287; p. 501.
Pascoe, William H., Chicago, Ill. Oil-burning apparatus and method. No. 1,382,223; June 21; v. 287; p. 470.
Pasquariello, Pasquale, Hamden, Conn. Friction-brake. No. 1,383,013; June 28; v. 287; p. 676.
Pasquariello, Pasquale, Hamden, Conn. Extension-ladder. No. 1,383,014; June 28; v. 287; p. 676.
Patremio, Martin, Lodi, N. J. Celluloid button. No. 1,382,739; June 28; v. 287; p. 624.
Patrick, Benjamin H., Boise, Idaho. Canvas check-dam. No. 1,381,427; June 14; v. 287; p. 262.
Patricolo, Vincent. (See Pecorella, A., Patricolo, and Apel.)
Patten, John H., Kent, assignor to W. T. Behne, King county, Wash. Making automobile-tires. No. 1,380,736; June 7; v. 287; p. 78.
Pattison, Albert W., Lockport, N. Y. Vaporizer hydrocarbon-burner. No. 1,383,015; June 28; v. 287; p. 676.
Paulson, Swen and A. Hatch, Heber, Utah. Developing-machine. No. 1,381,222; June 14; v. 287; p. 224.
Pausch, Robert H. (See Woodruff, C. W., and Pausch.)
Payton, C. T. (See Guild, George R., assignor.)
Payne, Stephen H. (See O'Neill, H., and Payne.)
Pearson, Henry, Brightwood, Mass., assignor, by mesne assignments, to The J. G. Brill Company, Philadelphia, Pa. Unloading apparatus. No. 1,381,495; June 14; v. 287; p. 274.
Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,381,657; June 14; v. 287; p. 96.
Pechstein, Fritz, Wilmersdorf-Berlin, assignor to C. A. Fesca & Sohn, Berlin-Lichtenberg, Germany. Centrifuge. No. 1,381,330; June 14; v. 287; p. 243.
Pecorella, Alberto, V. Patricolo, Buffalo, and F. H. Apel, Athol Springs, N. Y. Artificial limb. No. 1,380,835; June 7; v. 287; p. 98.
Peebles, Thomas A. (See Hopwood, J. M., and Peebles.)
Peek, Robert L. (See Hybinette, N. V., and Peek.)
Peelle Company, The. (See Peelle, Robert S., assignor.)
Peelle Company, The. (See Wexler, Benjamin, assignor.)
Peelle, Robert S., Hollis, N. Y., assignor to The Peelle Company. Foundation-bolt. No. 1,381,428; June 14; v. 287; p. 262.
Peerless Husker Company. (See Sells, Ogden S., assignor.)
Peerless Motor Car Company, The. (See Strickland, William R., assignor.)
Peet Brothers. (See Peet, Walter F., assignor.)
Peet, Walter F., assignor to Peet Brothers. Hairpin. No. 1,383,016; June 28; v. 287; p. 677.
Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Valve. No. 1,380,586; June 7; v. 287; p. 49.
Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Valve. No. 1,380,737; June 7; v. 287; p. 78.
Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Valve. No. 1,381,223; June 14; v. 287; p. 224.
Pelletier Products Mfg. Co. (See Pelletier, Henry E., assignor.)
Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Coupling. No. 1,383,017; June 28; v. 287; p. 677.
Pelton Water Wheel Company. (See McAulay, C. B., and Hutchinson.)
Pence, Allen T., *et al.* (See Lukens, W. R., and Gallagher, assignors.)
Penn Bros. Suspender Company. (See Penn, Holmes E., assignor.)
Penn, Holmes E., Madison, N. C., assignor to Penn Bros. Suspender Company. Garter. No. 1,381,658; June 14; v. 287; p. 305.
Penn, William E., Watertown, Wis., assignor to The Creamery Package Manufacturing Company, Chicago, Ill. Butter-cutter. No. 1,382,540; June 21; v. 287; p. 531.
Penner, Joseph F., New Castle, and A. A. Lansberry, Vandergrift, Pa., assignors to Vandergrift Box Company. Nailing-machine. No. 1,383,145; June 28; v. 287; p. 701.
Penning, Edward C., and F. A. Isern, Ellinwood, Kans. Two-cycle motor. No. 1,382,539; June 21; v. 287; p. 531.
Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)
Pépin, Joseph W. A., St. Jerome, Quebec, Canada. Aeroplane. No. 1,382,314; June 21; v. 287; p. 488.
Percy Manufacturing Company. (See Trubenbach, C. D., and Sanneman, assignors.)
Perl, Albert H. F., Chiswick, England. Fastening device. No. 1,382,849; June 28; v. 287; p. 644.
Perrin, Tolbert M., Bozeman, Mont. Gem-mounting. No. 1,383,146; June 28; v. 287; p. 701.
Perry and Hutchins' Laundry Appliance Company. (See Hutchins, Arthur W., assignor.)

Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Conduit. No. 1,382,740; June 28; v. 287; p. 624.

Pesznecker, Stephen P., assignor of one-half to Dr. H. V. Adix, Estacada, Oreg. Cantaliver front spring. No. 1,382,541; June 21; v. 287; p. 532.

Peters, Frank M., New York, N. Y., and W. H. Hungerford, Chicago, Ill., said Hungerford assignor to said Peters. Machine for applying labels, seals, and the like. No. 1,380,924; June 7; v. 287; p. 115.

Peters Machine Manufacturing Company, The. (See Thiemer, William H., assignor.)

Petersen, Anker, Winthrop, Mass., assignor, by mesne assignments, to The American Wiremold Company, Hartford, Conn. Making laces. No. 1,380,411; June 7; v. 287; p. 16.

Peterson, Henry. (See Peterson, John A. J. and H.)

Peterson, John A. and H., Kansas City, Mo. Mattress-conveyer. No. 1,381,429; June 14; v. 287; p. 262.

Peterson, John J., Steubenville, Ohio. Window-cleaning device. No. 1,361,884; June 14; v. 287; p. 349.

Peterson, John J., Steubenville, Ohio. Window-cleaning device. No. 1,383,018; June 28; v. 287; p. 677.

Peterson, Walter C., Detroit, Mich. Heat-treating steel. No. 1,380,676; June 7; v. 287; p. 67.

Petricone, Sabatino, Newport, Ky. Pump. No. 1,381,224; June 14; v. 287; p. 224.

Petrie, John W., New Haven, Conn. Kaleidoscope. No. 1,383,019; June 28; v. 287; p. 677.

Petroleum Rectifying Company. (See Quinby, Henry R., assignor.)

Pettersson Bengt A. (See Blomberg, K. G., and Pettersson.)

Pettitt, Lewis C., Chicago, Ill. Phonographic reproducer. No. 1,380,498; June 7; v. 287; p. 33.

Pfeifer, William, Jr., Jersey City, N. J. Alarm-clock. No. 1,381,225; June 14; v. 287; p. 225.

Pfeiffer, Fred R., Akron, Ohio. Tire-vulcanizing device. (Reissue.) No. 15,120; June 7; v. 287; p. 149.

Pflagler, Harry M., St. Louis, Mo. Booster-motor trailer-truck. No. 1,381,496; June 14; v. 287; p. 274.

Pflagler, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Six-wheel car-truck. No. 1,381,497; June 14; v. 287; p. 274.

Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive trailer-truck. No. 1,381,498; June 14; v. 287; p. 274.

Phalor, Samuel E., assignor of one-half to R. H. Bean, Columbus, Ohio. Means for removing cotton droppings from floors. No. 1,382,542; June 21; v. 287; p. 532.

Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)

Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)

Philippi, Theodore F., East St. Louis, Ill. Hydraulic press. No. 1,382,315; June 21; v. 287; p. 488.

Phillip, Peter, Chicago, Ill. Governor. No. 1,380,588; June 7; v. 287; p. 50.

Phillips, Isidore, Los Angeles, Calif. Hinge. No. 1,380,587; June 7; v. 287; p. 50.

Phillips, John W., Meriden, Conn., assignor to C. P. Landreth, Philadelphia, Pa. Centrifugal apparatus. No. 1,382,930; June 28; v. 287; p. 660.

Phillips, Stanley, Iluka, assignor to The Efficient Gas Power Company, Limited, Sydney, New South Wales, Australia. Suction gas-generator. No. 1,382,118; June 21; v. 287; p. 451.

Phipps, Edward, San Francisco, Calif. Amplifier for phonographs and the like. No. 1,381,430; June 14; v. 287; p. 262.

Phoenix-Hermetic Company. (See Taliaferro, Thomas L., assignor.)

Photostat Corporation. (See Greene, John S., assignor.)

Pianko, Mendel, Chicago, Ill. Tire-armor. No. 1,382,381; June 21; v. 287; p. 501.

Pichel, Herman, New York, N. Y. Handbag. No. 1,381,226; June 14; v. 287; p. 225.

Pierce, George W., Davis, assignor to California Almond Growers Exchange, San Francisco, Calif. Apparatus for bleaching almonds. No. 1,382,850; June 28; v. 287; p. 644.

Pierson, Charles E., Newcastle, Ind. Fishhook. No. 1,381,003; June 7; v. 287; p. 131.

Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Stop device for wire-drawing or similar machines. No. 1,380,412; June 7; v. 287; p. 17.

Pierson, William H., Philadelphia, Pa. Outlet-plate. No. 1,382,741; June 28; v. 287; p. 624.

Pieters, Julien, Paris, France. Automatic discharging apparatus for continuous vertical ovens. No. 1,381,004; June 7; v. 287; p. 131.

Pilling, Henry, Chorlton-cum-Hardy, England. Exhaust-valve box of internal-combustion engines. No. 1,383,147; June 28; v. 287; p. 701.

Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Fluid-pressure control. No. 1,382,119; June 21; v. 287; p. 451.

Pinkerton, Edward E., Chicago, Ill. Folding box. No. 1,383,148; June 28; v. 287; p. 701.

Pioneer Box Company. (See Caylor, Jefferson, assignor.)

Pisecek, Joseph Y., Gallup, N. Mex. Railway-track construction. No. 1,381,499; June 14; v. 287; p. 274.

Pitkin, George P., Bergenfield, N. J. Radiator-thermometer. No. 1,381,005; June 7; v. 287; p. 131.

Pitlick, Carl W., Oahe, S. D. Hog-restraining device. No. 1,381,006; June 7; v. 287; p. 131.

Pitlick, Carl W., Oahe, S. D. Self-cleaning currycomb. No. 1,381,007; June 7; v. 287; p. 131.

Pitney, Arthur H., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Locking mechanism for numeral wheels, &c. No. 1,382,224; June 21; v. 287; p. 470.

Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.)

Pitsch, Julius A., Los Angeles, Calif. Adjustable friction-wrench. No. 1,382,851; June 28; v. 287; p. 645.

Pittman, Ernest W., Flushing, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Method and apparatus for finishing gunstocks. No. 1,382,852; June 28; v. 287; p. 645.

Plastoid Products. (See Routt, O. L., and McConnell, assignors.)

Platt, Leo, New York, N. Y. Camisole and making same. No. 1,382,742; June 28; v. 287; p. 624.

Platts, George L., Detroit, Mich. Tray-chair. No. 1,383,020; June 28; v. 287; p. 677.

Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., executor of H. B. Newhall, deceased. Cable-clamp and bridle-ring. No. 1,381,227; June 14; v. 287; p. 225.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor of H. B. Newhall, deceased. Conduit or cable clamp and bridle-ring. No. 1,381,228; June 14; v. 287; p. 225.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,229; June 14; v. 287; p. 22.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,230; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,391,231; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,232; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,233; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,234; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,235; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,236; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,237; June 14; v. 287; p. 227.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,238; June 14; v. 287; p. 227.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,239; June 14; v. 287; p. 227.

Poage, Henry, Millpoint, W. Va. Churn-operating device. No. 1,382,316; June 21; v. 287; p. 488.

Poetzsch, Max, Clifton, N. J. Apparatus for bleaching, dyeing, &c. No. 1,383,021; June 28; v. 287; p. 677.

Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Fuel-feed system. No. 1,381,331; June 14; v. 287; p. 243.

Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,381,431; June 14; v. 287; p. 262.

Polk, William R., Atlanta, Ga. Battery-grid. No. 1,381,008; June 7; v. 287; p. 132.

Poll, George, New York, N. Y. Cabinet. No. 1,383,022; June 28; v. 287; p. 677.

Polonus, Thomas, Youngstown, Ohio. Necktie. No. 1,382,382; June 21; v. 287; p. 501.

Pool, Charles R. P., Dallas, Tex. Lift for gin-breasts. No. 1,380,677; June 7; v. 287; p. 67.

Poole, John H., Whitman, assignor of sixteen thirty-seconds to Masterson Brothers, eight thirty-seconds to F. Drew, four thirty-seconds to F. L. Price, two thirty-seconds to J. G. Wilde, Brockton, and one thirty-second to J. W. Barlow, Quincy, Mass. Last. No. 1,383,149; June 28; v. 287; p. 702.

Pomeroy, Edward S., assignor to Smith & Wesson, Springfield, Mass. Automatic pistol. No. 1,382,317; June 21; v. 287; p. 488.

Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributer. No. 1,381,240; June 14; v. 287; p. 227.

Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Baffle-curtain for ash-tanks. No. 1,380,413; June 7; v. 287; p. 17.

Porter, Adelaide M., Greenwich, Conn., assignor to Huyler's, New York, N. Y. Wrapped candy doll. No. 1,382,383; June 21; v. 287; p. 501.

Potsch, Arthur H. (See Bumpass, Cecil A., assignor.)

Potter, Charles W., Waltham, Mass. Manifold-book No. 1,382,798; June 28; v. 287; p. 625.

Potts, Edwin B., Jersey City, N. J., assignor to Auto-sales Corporation. Coin-controlled vending-machine. No. 1,382,384; June 21; v. 287; p. 502.

Powell, Howard L. (See Bush, F. P., Serr, and Powell.)

Powell, William H., Elmer, N. J. Method and apparatus for making plate-glass. No. 1,381,591; June 14; v. 287; p. 292.

Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Line-switch system. No. 1,382,012; June 21; v. 287; p. 482.

Poyer, Emma, Los Angeles, Calif. Garment. No. 1,380,589; June 7; v. 287; p. 50.

Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,381,009; June 7; v. 287; p. 132.

Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Securing certain derivatives of terpenes. No. 1,380,414; June 7; v. 287; p. 17.

Pratt, William B., Wellesley, assignor to Roudout Rubber Company, East Dedham, Mass. Devulcanizing rubber. No. 1,382,669; June 28; v. 287; p. 611.

Preiss, Adolph M., Kansas City, Mo. Oil-burner radiator. No. 1,382,853; June 28; v. 287; p. 645.

Premier Motor Corporation. (See Crawford, Charles S., assignor.)

Prentis, Arthur E., Kent, England. Mop. No. 1,381,739; June 14; v. 287; p. 23.

Pressed Steel Car Company. (See Cotton, Charles S., assignor.)

Pressed Steel Car Company. (See Strom, Swan R., assignor.)

Preston, Albert F., deceased, Boston; J. Abbott, Winchester, and A. B. White, Brookline, administrators of said A. F. Preston, assignors to J. Abbott, Winchester, and A. B. White, Brookline, Mass. Pattern-cutting machine. No. 1,383,023; June 28; v. 287; p. 678.

Prete, Henry S., Devils Lake, N. D. Mail delivering and catching device. No. 1,382,543; June 21; v. 287; p. 532.

Prettie, Richard J., Jamaica, N. Y., assignor to The Aeolian Company. Automatic stop for phonographs. No. 1,382,544; June 21; v. 287; p. 532.

Prevost, Alfred L., Mystic, Conn. Clothespin and manufacture thereof. No. 1,382,931; June 28; v. 287; p. 660.

Pribnow, John F., assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw-swage. No. 1,382,743; June 28; v. 287; p. 624.

Price, Abraham R., Oregon City, Oreg. Baby-carriage attachment for motor-vehicles. No. 1,380,678; June 7; v. 287; p. 67.

Price, Charles E., assignor of one-half to G. M. Alexander, San Diego, Calif. Muffler for exhaust-gases. No. 1,383,150; June 28; v. 287; p. 702.

Price, Frank L., *et al.* (See Poole, John H., assignor.)

Price, George B., Salt Lake City, Utah. Demountable spring covering and oiler. No. 1,381,010; June 7; v. 287; p. 132.

Price, Joseph, New York, N. Y., assignor to The Griscom Russell Company. Heat-interchanger. No. 1,382,670; June 28; v. 287; p. 611.

Price, Matt, Salina, Kans. Automobile-hoist. No. 1,381,592; June 14; v. 287; p. 292.

Price, Mitchell D., Miami, Fla. Fishing-reel clamp. No. 1,382,545; June 21; v. 287; p. 533.

Price, Stephen C., Louisiana, Mo., and E. E. Richardson, Quincy, Ill., assignors to P. R. B. Pump Co., Hannibal, Mo. Oil dispensing and measuring device. No. 1,380,500; June 7; v. 287; p. 50.

Price & Teeple Piano Company. (See Freborg, Charles, assignor.)

Prichard, Robert H., Los Angeles, Calif. Enameling plates and the like. No. 1,381,736; June 14; v. 287; p. 321.

Prickett, Clyde W., Winterset, Iowa. Concrete and wood floor construction device. No. 1,381,740; June 14; v. 287; p. 321.

Priebe, Ernest B., *et al.* (See Schmidt, Herman, assignor.)

Priest, George W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing linoleum and product thereof. No. 1,381,737; June 14; v. 287; p. 321.

Priest, George W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Linoleum composition and making same. No. 1,381,738; June 14; v. 287; p. 321.

Prigan, Ernest W., assignor to H. C. Naylor and S. H. Keeney, Indianapolis, Ind. Electric-switch structure. No. 1,382,385; June 21; v. 287; p. 502.

Pringle, Jesse N., Artega, Fla., assignor of one-half to W. V. Strom, Jacksonville, Fla. Sanitary bottle-mouth guard. No. 1,382,318; June 21; v. 287; p. 489.

Process Engineers. (See De Cew, Judson A., assignor.)

Protein Products Corporation. (See Wescott, William B., assignor.)

Prouty, George W., Milton, Mass. Hydraulic toggle-press. No. 1,382,386; June 21; v. 287; p. 502.

Pugh, Chester J., Ida, La. Dust and dirt cap for front-axle ends. No. 1,382,671; June 28; v. 287; p. 611.

Pullen, Clyde C. (See Daffron, H., and Pullen.)

Pulsometer Engineering Company. (See Fleuss, Henry A., assignor.)

Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt-fastener. No. 1,382,799; June 28; v. 287; p. 635.

Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Combined lamp-guard and handle. No. 1,382,800; June 28; v. 287; p. 635.

Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,380,925; June 7; v. 287; p. 115.

Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,380,926; June 7; v. 287; p. 115.

Putnam, James K., Tulsa, Okla. Check-valve. No. 1,380,415; June 7; v. 287; p. 17.

Pyper Animated Sign Company. (See Pyper, George R., assignor.)

Pyper, George R., Salt Lake City, Utah. Sign. No. No. 1,382,225; June 21; v. 287; p. 471.

Pyper, George R., Salt Lake City, Utah. Sign. No. 1,382,226; June 21; v. 287; p. 471.

Pyper, George R., Salt Lake City, Utah. Sign. No. 1,382,227; June 21; v. 287; p. 471.

Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,228; June 21; v. 287; p. 471.

Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,229; June 21; v. 287; p. 471.

Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,230; June 21; v. 287; p. 472.

Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,231; June 21; v. 287; p. 472.

Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,232; June 21; v. 287; p. 472.

Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,233; June 21; v. 287; p. 472.

Pyzel, Daniel, Oakland, Calif. Rerun-still. No. 1,383,024; June 28; v. 287; p. 678.

Quaglia, Giovanni, and Arrigo Capello, Turin, Italy, assignor to Ch. Henri E. Wetzels, Paris, France. Wire connection. No. 1,381,741; June 14; v. 287; p. 321.

Quaker Oats Company, The. (See Bourdeau, J. D., and Fink, assignors.)

Qualmann, Paul H., Milwaukee, Wis. Self-filling fountain-pen. No. 1,381,232; June 14; v. 287; p. 244.

Quehl, Richard G., assignor to The Strong-Scott Manufacturing Company, Minneapolis, Minn. Grate for elevator-dump pits. No. 1,383,151; June 28; v. 287; p. 702.

Quet, Francois, Nice, France. Portable lifting apparatus. No. 1,380,591; June 7; v. 287; p. 50.

Quick, Alfred A., Melbourne, Victoria, Australia. Device for haulage or straining purposes. No. 1,381,011; June 7; v. 287; p. 132.

Quinby, Henry R., Maricopa, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator for petroleum oils. No. 1,382,224; June 21; v. 287; p. 472.

Quirk, Edward W. (See Hamilton, J. W. C., and Quirk.)

R. & W. Hawthorn, Leslie & Company. (See Gray, John, assignor.)

Racer, Roscoe C., Richmond, Va. Disk wheel for vehicles. No. 1,382,672; June 28; v. 287; p. 611.

Radet, Léon, Paris, France. Apparatus for controlling the gas-supply, igniting, and extinguishing gas-burners. No. 1,380,592; June 7; v. 287; p. 51.

Raeburn, William, Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Thumb-tack and producing the same. No. 1,380,738; June 7; v. 287; p. 79.

Raguse, Ernest H., Summit, Ill. Flagpole. No. 1,383,224; June 28; v. 287; p. 717.

Raiche, Denis M., Kankakee, Ill. Hydrotemperature-control system for bath and laving purposes. No. 1,381,012; June 7; v. 287; p. 132.

Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. No. 1,380,679; June 7; v. 287; p. 67.

Rainsford, Clarence F., Parkside, South Australia, Australia. Collapsible crate or packing-case. No. 1,381,013; June 7; v. 287; p. 133.

Raloff, Adolph, Jr., assignor of two-fifths to T. H. Wegmann and one-fifth to A. G. Raloff, Thiensville, Wis. Piston-ring-compressing tool. No. 1,383,152; June 28; v. 287; p. 702.

Raloff, A. G., *et al.* (See Raloff, Adolph J., assignor.)

Ralston, Henry J., San Francisco, Calif. Trailer-steering device. No. 1,381,742; June 14; v. 287; p. 222.

Rambush, Niels E. (See Lynn, A. H. Riley, and Rambush.)
Ramon, Zaragoza G., Amarillo, Tex. Polish-box opener. No. 1,381,743; June 14; v. 287; p. 322.
Ramsdell, Frederick M., Worcester, Mass. Hand-tool. No. 1,382,932; June 28; v. 287; p. 660.
Randall, Howard D., assignor to The J. D. Randall Company, Cincinnati, Ohio. Covered finishing-molding. No. 1,381,885; June 14; v. 287; p. 349.
Randall, J. D., Company. (See Randall, Howard D., assignor.)
Randall, Victor E., assignor of one-half to W. Clemence, Battle Creek, Mich. Toy. No. 1,380,836; June 7; v. 287; p. 98.
Randall, Victor E., assignor to S. A. Miller, Battle Creek, Mich. Vending-machine. No. 1,381,135; June 14; v. 287; p. 208.
Ranger, Roy A., Charlevoix, Mich. Apparatus for raising sunken logs. No. 1,381,333; June 14; v. 287; p. 244.
Ranz, Jacob, St. Louis, Mo. Knife-sharpener. No. 1,381,334; June 14; v. 287; p. 244.
Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Tensioned frame. No. 1,381,659; June 14; v. 287; p. 305.
Rasmussen, Peter A., Chicago, Ill. Perambulating tractor. No. 1,382,854; June 28; v. 287; p. 645.
Rateau Battu Smoot Engineering Corporation. (See Smoot, Charles H., assignor.)
Rathbone, Richard L. B., London, C. Morton, Thornton Heath, England. Manufacture of models. No. 1,382,607; June 21; v. 287; p. 545.
Rathbun, Ross B., Salt Lake City, Utah. Removing solids suspended in moving gases. No. 1,381,660; June 14; v. 287; p. 305.
Raymond, William A., South Bend, Wash. Holder for incandescent lights. No. 1,382,235; June 21; v. 287; p. 473.
Reader, Russell F., East St. Louis, Ill. Electric water-heater. No. 1,381,500; June 14; v. 287; p. 274.
Reardon, Robert E., Ottawa, Ontario, Canada. Dummy practice-rifle. No. 1,382,120; June 21; v. 287; p. 452.
Reay, Jack M., Blackfoot, Idaho. Conveyer for unloading articles from aircraft. No. 1,380,593; June 7; v. 287; p. 51.
Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Yielding terminal cap for dry-battery cells. No. 1,382,440; June 21; v. 287; p. 573.
Racktenwald, John, assignor of one-sixth to W. Meyer, one-sixth to William F. Segelhorst, and one-sixth to W. C. Steinman, Venedy, Ill. Electric signaling system. No. 1,381,121; June 21; v. 287; p. 452.
Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
Redford, John E., Kinloch, assignor to American Brake Company, St. Louis, Mo. Automatic slack-adjuster. No. 1,381,932; June 21; v. 287; p. 417.
Reed, Clarence E., Houston, Tex. Drill-head. (Reissue.) No. 15,126; June 14; v. 287; p. 352.
Reed, Cyrus, Lebanon, Pa. Gate and hinge-latch therefor. No. 1,381,335; June 14; v. 287; p. 244.
Reed, Glen W. (See Carson, Robert H., assignor.)
Reed, Glen W., *et al.* (See Carson, Robert H., assignor.)
Reed, Harry H., Winthrop, Mass. Refrigerator. No. 1,383,235; June 28; v. 287; p. 718.
Reed Manufacturing Company. (See Tozer, Archibald B., assignor.)
Rees, Clarence E., San Diego, Calif. Internal-combustion engines. No. 1,382,236; June 21; v. 287; p. 473.
Reese, Allyn R., *et al.* (See Jackson, Richard, Jr., assignor.)
Reeves, Edward M., Chicago, Ill. Automobile-spring compressor. No. 1,382,801; June 28; v. 287; p. 636.
Refrigo Corporation. (See Ellmauer, Josef, assignor.)
Rehthaler, Louis, assignor to Battle Creek Appliance Company, Ltd., Battle Creek, Mich. Truss. No. 1,381,336; June 14; v. 287; p. 244.
Reid, Andrew, Moosomin, Saskatchewan, Canada. Sleigh-runner. No. 1,380,680; June 7; v. 287; p. 68.
Reid, John, New York, N. Y. Furnace-front. No. 1,380,739; June 7; v. 287; p. 79.
Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,380,740; June 7; v. 287; p. 79.
Reider, Paul E., Philadelphia, Pa. Car-hopper-releasing device. No. 1,381,661; June 14; v. 287; p. 305.
Reigersberg, Morris, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Shelving construction. No. 1,381,501; June 14; v. 287; p. 275.
Reilly, John P., *et al.* (See Showalter, Roy C., assignor.)
Reincke, Henry, Des Plaines, Ill. Henhouse-door. No. 1,381,015; June 7; v. 287; p. 133.
Reinhard, Robert, and J. C. Schmitt, Chicago, Ill. Hoop. No. 1,381,502; June 14; v. 287; p. 275.
Reising, Eugene G., East Hartford, assignor to The Hartford Machine Gun Company, Hartford, Conn. Firearm. No. 1,381,016; June 7; v. 287; p. 133.
Relay Automatic Telephone Company. (See Cohen, Bertram S., assignor.)
Remington Accounting Machine Corporation. (See Goldberd, Hyman E., assignor.)
Remington Arms Company. (See Dygert, Charles B., assignor.)
Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Remington Typewriter Company. (See Smith, Arthur W., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Remus, William F., Rangataua, A. E. Macredie, and C. F. Cork, Auckland, New Zealand. Production of meat powder. No. 1,382,673; June 28; v. 287; p. 611.
Rendle, Thomas, Ottawa, Ill. Shoe-repairing stand. No. 1,382,546; June 21; v. 287; p. 533.
Rendle, Thomas A., assignor to Hardinge Brothers, Inc., Chicago, Ill. Watchman's-clock-dial holder. No. 1,382,802; June 28; v. 287; p. 636.
Reneau, Charles W., Baton Rouge, La., assignor of one-half to J. R. Bankston, Anguilla, Miss. Boiler-feed-water distributer and cleaner. No. 1,383,153; June 28; v. 287; p. 702.
Reutlinger, Emile C., Boston, Mass. Water-motor. No. 1,382,237; June 21; v. 287; p. 473.
Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tension device. No. 1,380,837; June 7; v. 287; p. 98.
Republic Tool and Manufacturing Company, The. (See Clark, D. A., and Lowe, assignors.)
Revere Rubber Company. (See Davis, Laurence R., assignor.)
Revere Rubber Company. (See Stewart, William E., assignor.)
Revere Rubber Company, The. (See Fisher, George F., assignor.)
Reyburn, John R., Fairfield, Conn., assignor to American Chain Company, Inc. Clamp for attaching automobile-buffers. No. 1,380,741; June 7; v. 287; p. 79.
Reyes, Benjamin C., assignor of one-half to M. J. Roos, San Antonio, Tex. Trousers. No. 1,380,681; June 7; v. 287; p. 68.
Reynolds, Arthur W., assignor of one-half to E. Benedict, Newtown, Conn. Tractor-plow. No. 1,381,662; June 14; v. 287; p. 305.
Reynolds, Ralph V., Chicago, Ill. Metal clothes-hanger. No. 1,383,025; June 28; v. 287; p. 678.
Rhead, Harry, Trenton, N. J. Direction-signal. No. 1,382,238; June 21; v. 287; p. 473.
Rhodes, George E., Haxtum, Colo. Cylinder-grinding device. No. 1,382,319; June 21; v. 287; p. 489.
Rhodes, John, assignor of one-half to H. H. Clark, Seattle, Wash. Oil-burner. No. 1,382,239; June 21; v. 287; p. 474.
Ribeiro, Alberto L., Camden, N. J. Folding chair. No. 1,381,136; June 14; v. 287; p. 208.
Rice, Hugh, Yonkers, N. Y. Third-rail-bracket-clamp cap. No. 1,383,236; June 28; v. 287; p. 718.
Rice, Milo E., Kansas City, Mo. Cordless ankle-joint. No. 1,382,855; June 28; v. 287; p. 646.
Rich, Vern, Mount Vernon, S. D. Punching-machine. No. 1,382,674; June 28; v. 287; p. 611.
Richards, John J., Brookline, Mass. Reserve-provider for fuel-tanks. (Reissue.) No. 15,129; June 21; v. 287; p. 545.
Richards-Wilcox Manufacturing Company. (See Kern, Albert L., assignor.)
Richardson, Allan S., Butte, Mont. Air-shaft for mines. No. 1,381,017; June 7; v. 287; p. 133.
Richardson, Earl E. (See Price, S. C., and Richardson.)
Riker, Samuel M., Chester, N. J. Belt-buckle. No. 1,380,416; June 7; v. 287; p. 17.
Richendifer, Harman L., Bladen, Nebr. Lawn-mower. No. 1,382,441; June 21; v. 287; p. 513.
Richman, Wilbert, Bridgeton, N. J. Wheelbarrow. No. 1,383,026; June 28; v. 287; p. 678.
Rick, John, and J. Motowski, assignors of one-third to E. A. Mock, Milwaukee, Wis. Railway appliance. No. 1,382,240; June 21; v. 287; p. 474.
Ricke, George H., Cincinnati, assignor to A. McNeill, Norwood, Ohio. Safety attachment for flying-machines. No. 1,382,599; June 21; v. 287; p. 543.
Ricketts, Gilbert M., Columbus, Ohio. Bicycle or similar wheel. No. 1,382,122; June 21; v. 287; p. 452.
Riddell, Austin A. (See Fox, W. R., and Riddell.)
Riddick, Robert C., *et al.* (See Van Vleet, Charles W., assignor.)
Riecken, William E., Glendale, assignor to Western Electric Company, Incorporated, New York, N. Y. Winding-machine. No. 1,381,933; June 21; v. 287; p. 417.
Riggs, Leo A., Audubon, Iowa. Collapsible door. No. 1,381,744; June 14; v. 287; p. 322.
Rigney, Samuel C., Dallas, Tex. Vegetable-grading apparatus. No. 1,382,856; June 28; v. 287; p. 646.
Riley, Adams, 2d. (See Lynn, A. H., Riley, and Rambush.)
Riley, Elmer, and C. Yuncker, Dodge City, Kans. Bolt and nut holder. No. 1,382,320; June 21; v. 287; p. 489.
Riley, James T., Brooklyn, assignor to Kimpton, Haupt & Co., New York, N. Y. Mucilage-stand. No. 1,380,594; June 7; v. 287; p. 51.
Riley, William E. (See Hadley, G. E., and Riley.)
Ringelspaugh, Charles W. (See Haas, W., and Ringelspaugh.)
Rintelman, Henry W., Cottonwood, S. D. Milking-machine. No. 1,380,499; June 7; v. 287; p. 33.
Rip Van Winkle Wall Bed Company, The. (See Sinclair, Neil, assignor.)
Rippe, Henry A., Salt Lake City, Utah. Worm-gearing. No. 1,381,337; June 14; v. 287; p. 244.

Rispler, Alfred L., assignor to Monsanto Chemical Works, St. Louis, Mo. Producing phthaleins. No. 1,381,503; June 14; v. 287; p. 275.
Ritchie, Foster, Ealing, England. Power-indicator for spring-motors. No. 1,381,847; June 14; v. 287; p. 341.
Ritchie, W. C., and Company. (See Evers, A. J., and Sauvage, assignors.)
Ritz, Emil, Jr., assignor to The Hisey-Wolf Machine Company, Cincinnati, Ohio. Quick-throw electric switch. No. 1,380,595; June 7; v. 287; p. 51.
Roach, Jesse E. (See Moore, Wade W., assignor.)
Roach, William L., Corinth, Miss. Shoe-repairing machinery. No. 1,382,013; June 21; v. 287; p. 432.
Robb, William E., Oil City, Pa. Power-transmitting mechanism. No. 1,381,745; June 14; v. 287; p. 322.
Robbins, Eugene P. (See Robbins, Thomas H. and E. P.)
Robbins, Thomas H., Ladysmith, Wis., and E. P., Minneapolis, Minn. Protecting device for bank-windows. No. 1,382,803; June 28; v. 287; p. 636.
Roberds, Garfield A., Olathe, Kans. Shutter-operating device. No. 1,381,241; June 14; v. 287; p. 227.
Roberts, Frank E., assignor of one-fourth to A. N. Blake, one-fourth to F. C. Stetson, Lynn, and one-fourth to F. W. Howe, Swampscott, Mass. Making boots and shoes. No. 1,383,237; June 28; v. 287; p. 718.
Roberts, Frank E., assignor to Gotham Process Shank, Inc., Lynn, Mass. Making boots and shoes. No. 1,383,238; June 28; v. 287; p. 718.
Roberts, Matthew W., Lumberton, Miss. Commutator-cleaner. No. 1,382,547; June 21; v. 287; p. 533.
Roberts & Schaefer Company. (See Lawry, Raymond G., assignor.)
Roberts, Drew D., Perry, Fla. Adjustable hand-tool for filing round surfaces. No. 1,381,886; June 14; v. 287; p. 349.
Roberts, William E. (See Schrader, L. F., Roberts, and Bredilk.)
Robertson, Christopher S., Jacksonville, Fla. Side window for automobiles. No. 1,383,027; June 28; v. 287; p. 678.
Robertson, Frank E., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. No. 1,382,548; June 21; v. 287; p. 533.
Robertson, George. (See Zapf, M., and Robertson.)
Robertson, George B., Keene, N. H. Stake. No. 1,381,746; June 14; v. 287; p. 322.
Robertson, James G., New York, N. Y. Heel. No. 1,380,838; June 7; v. 287; p. 99.
Robinson, James M., *et al.* (See Criner, Harry J., assignor.)
Robinson, John F., *et al.* (See Nelson, De Witt, assignor.)
Robinson, Rowley, Camas, Wash. Heating-stove. No. 1,382,014; June 21; v. 287; p. 432.
Rock Hill Buggy Company. (See Deas, Coon A., assignor.)
Rock, Mike. (See Hawresch, S., Rock, and Dworski.)
Rodgers, Jesse R., Union City, Tenn., assignor of one-half to W. C. Joplin, St. Louis, Mo. Shoe-displaying device. No. 1,383,154; June 28; v. 287; p. 702.
Roe, Alliott V., Hamble, Southampton, England. Mounting for guns. No. 1,382,241; June 21; v. 287; p. 474.
Roebling's, John A., Sons Company. (See Green, Richard D., assignor.)
Roeder, Lawrence F., Philadelphia, Pa. Vise-stand. No. 1,381,663; June 14; v. 287; p. 305.
Roesch, Alfred, assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Recorder. No. 1,380,417; June 7; v. 287; p. 17.
Roesel, Frederick V., Wellington, Ohio, assignor of one-half to E. Miller, Perry, Iowa. Core for resilient wheel-tires. No. 1,381,934; June 21; v. 287; p. 417.
Roeseler, Emil A., Juneau, Wis. Adjustable guard for stanchion-supporting frames. No. 1,380,500; June 7; v. 287; p. 33.
Rogers, Francis M., and C. P. McNeil, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind. Treating rosin. No. 1,381,504; June 14; v. 287; p. 275.
Rogers, Frederick H., Arlington, N. J. Rudder-lock. No. 1,382,442; June 21; v. 287; p. 514.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,382,549; June 21; v. 287; p. 533.
Rogers, Virgil, Gibbon, Nebr. Belt-guide. No. 1,381,664; June 14; v. 287; p. 306.
Rogers, William C., Fort Sheridan, Ill. Watch-holder. No. 1,381,018; June 7; v. 287; p. 134.
Rogers, Yuble W., St. Louis, Mo. Combination-chair. No. 1,381,338; June 14; v. 287; p. 245.
Röhm, Otto, Darmstadt, Germany. Solid non-hygroscopic iron salt and the preparation thereof. No. 1,383,264; June 28; v. 287; p. 723.
Rohmer, Gabriel E., Brooklyn, N. Y. Drill. No. 1,380,682; June 7; v. 287; p. 68.
Rolaff, Walter G. E., Belleville, Ill. Packing-ring for rotary shafts. No. 1,383,028; June 28; v. 287; p. 679.
Roland, Louis I., Kernville, Calif. Feed-nut. No. 1,383,239; June 28; v. 287; p. 718.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Electric measuring instrument. No. 1,380,419; June 7; v. 287; p. 18.
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rollins, John O., Fresno, Calif. Grinding-machine. No. 1,381,593; June 14; v. 287; p. 293.
Roloson, Clayton L., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Engine-bed support. No. 1,382,387; June 21; v. 287; p. 502.
Romaro Machine Tool Company. (See Rosander, Robert A., assignor.) (Reissue.)
Romney, Richard R., assignor to Ellis Resilient Wheel Corporation, Seattle, Wash. Vehicle-wheel. No. 1,383,240; June 28; v. 287; p. 719.
Ronconi, Domenico, Chicago, Ill. Self-seating rotary valve. No. 1,382,857; June 28; v. 287; p. 646.
Rondout Rubber Company. (See Pratt, William B., assignor.)
Roof, Robert M., assignor to Laurel Motors Corporation, Anderson, Ind. Rear-axle spring-bar connection device. No. 1,381,432; June 14; v. 287; p. 263.
Roof, Robert M., assignor to Laurel Motors Corporation, Anderson, Ind. Front-spring-bar connection device. No. 1,381,433; June 14; v. 287; p. 263.
Roos, Maurice J. (See Reyes, Benjamin C., assignor.)
Rosander, Robert A., Brooklyn, N. Y., assignor to Romaro Machine and Tool Company, Inc. Wrench. (Reissue.) No. 15,135; June 28; v. 287; p. 725.
Rose, Joseph. (See Engebretsen, Alf, assignor.)
Rorem, Silas O., Sioux City, Iowa. Key-duplicating machine. No. 1,381,747; June 14; v. 287; p. 322.
Rosen, Fred, Chicago, Ill. Combination utensil. No. 1,381,339; June 14; v. 287; p. 245.
Rosenbauer, Gustave, Jersey City, N. J. Spark-plug tester. No. 1,380,839; June 7; v. 287; p. 99.
Rosenbaum, William E., St. Louis, Mo. Safety-razor. No. 1,381,848; June 14; v. 287; p. 341.
Rosenzweig, Siegfried, New York, N. Y. Steam-engine valve. No. 1,381,340; June 14; v. 287; p. 245.
Roser, Jeremiah V., assignor of one-half to A. Brengelman, Nashville, Tenn. Grease-pump. No. 1,383,241; June 28; v. 287; p. 719.
Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering-wheel. No. 1,380,840; June 7; v. 287; p. 99.
Ross Gear & Tool Company. (See Ross, David E., assignor.)
Ross, John D., Flushing, N. Y. Safety-guard for clothes-wringers. No. 1,382,242; June 21; v. 287; p. 474.
Ross, L. D. Elyria, Ohio. Clamp. No. 1,382,400; June 21; v. 287; p. 505.
Ross, William, Cleveland, Ohio. Hoop-coupling. No. 1,380,927; June 7; v. 287; p. 115.
Rostocki, John M., Pittsburgh, Pa. Egg-beater. No. 1,381,665; June 14; v. 287; p. 306.
Rosvall, Hans W., Seattle, Wash. Garment-gage. No. 1,380,418; June 7; v. 287; p. 18.
Rote, Charles V., assignor of one-half to E. W. Brown, Lancaster, Pa. Brake. No. 1,382,551; June 21; v. 287; p. 534.
Rothauski, Simon, Akron, Ohio. Vehicle safety device. No. 1,382,858; June 28; v. 287; p. 646.
Rothenberg, Arthur C., St. Louis county, Mo., assignor to Otis Elevator Company, Jersey City, N. J. Movable platform for push-button elevators. No. 1,382,243; June 21; v. 287; p. 474.
Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Bore-verifying apparatus. No. 1,382,859; June 28; v. 287; p. 646.
Roudil, Gaston, St.-Ouen, and M. Durand, Paris, France. Friction-roll transmission and change-gearing. No. 1,382,244; June 21; v. 287; p. 475.
Rouse, Thomas, Stamford Hill, England. Manufacture of agglomerates of various materials and their utilization. No. 1,381,748; June 14; v. 287; p. 323.
Routt, Orville L., and G. C. McConnell, assignor to Plastoid Products, Inc., Los Angeles, Calif. Plaster-board. No. 1,382,550; June 21; v. 287; p. 534.
Roszmann, Joseph, Covington, Ky. Safety-lock. No. 1,382,675; June 28; v. 287; p. 612.
Row, Victor P. (See Hall, O., and Row.)
Rowe, Alvin V., Galesburg, Ill. Barb-wire attachment for gates. No. 1,380,928; June 7; v. 287; p. 116.
Rowlands, Percy O., Liverpool, England. Liquid-fuel internal-combustion engine. No. 1,381,434; June 14; v. 287; p. 263.
Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.)
Royer, Lloyd D., Highland Park, assignor to Sloan-Striker Company, Detroit, Mich. Flow-indicator. No. 1,382,388; June 21; v. 287; p. 502.
Royster, David O., St. Louis, Mo. Beverage shipping and dispensing receptacle. No. 1,381,341; June 14; v. 287; p. 245.
Ruche, Abraham. (See Coopersmith, Rudolph, assignor.)
Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Receptacle and its recovery. No. 1,381,435; June 14; v. 287; p. 263.
Rudolph, James W., Dayton, Ohio. Weigher's rapid-weight stamper. No. 1,382,015; June 21; v. 287; p. 433.
Rudqvist, Carl A., Stiket, assignor to J. & C. G. Bolinders Mekaniska Verkstadts Aktiebolag, Stockholm, Sweden. Hydraulic motor. No. 1,380,596; June 7; v. 287; p. 51.
Ruebsamen, Albert, Decatur, Ill. Collecting device. No. 1,380,929; June 7; v. 287; p. 116.
Rumper, Morris. (See Freeze, John A., assignor.)
Rumreich, Adalbert A., Pisek, N. D. Lignite-grate. No. 1,381,887; June 14; v. 287; p. 349.
Rush, Albert, assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio. Door and the like. No. 1,382,933; June 28; v. 287; p. 660.
Rust-Oppenheim, Aug. (See Olsson, Zacharias, assignor.)

Russell, Edward A., and E. A. Schreiber, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Coupling for railway train-pipes. No. 1,382,245; June 21; v. 287; p. 475.

Russell, Guy M., Syracuse, assignor to American Piano Company, New York, N. Y. Power-unit mounting for musical instruments. No. 1,381,666; June 14; v. 287; p. 306.

Russell, Nelson J., Chicago, Ill. Fuel-saving attachment for furnace. No. 1,380,597; June 7; v. 287; p. 52.

Rust, Edwin G., Sioux City, Iowa. Container-closure. No. 1,381,137; June 14; v. 287; p. 209.

Ruud, Edwin, Pittsburgh, Pa., assignor to Ruud Manufacturing Company, Camden, N. J. Storage water-heater. (Reissue.) No. 15,136; June 28; v. 287; p. 726.

Ruud Manufacturing Company. (See Ruud, Edwin, assignor.) (Reissue.)

Ryan, John C., Toronto, Ontario, Canada. Light-projecting apparatus. No. 1,382,016; June 21; v. 287; p. 433.

Ryan, Thomas A., *et al.* (See Sherwood, Charles F., assignor.)

Ryder, Charles W., assignor of one-half to William Dietz, Chicago, Ill. Sprocket-pin driver for motion-picture machines. No. 1,381,667; June 14; v. 287; p. 307.

Ryesky, Alexander S. (See Updegrave, W. M., and Ryesky.)

Rymowicz, Stefan, Kenosha, Wis. Tire-carrier. No. 1,380,420; June 7; v. 287; p. 18.

Rys, Albert, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Armor-piercing shell. No. 1,383,012; June 28; v. 287; p. 675.

Sabourin, Jean B., Norton, Mass., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Cuff-button. No. 1,382,123; June 21; v. 287; p. 452.

Safepack Mills. (See Schwartz, Aaron, assignor.)

Safepack Mills. (See Wandel, Kurt, assignor.)

Safety Car Heating and Lighting Company. (See Crevelling, John L., assignor.)

Sakanashi, Charles S., San Mateo, Calif. Dirigible spotlight for motor-vehicles. No. 1,381,342; June 14; v. 287; p. 245.

Saladiner, Joseph M., Bryan, Tex. Cotton-pest-destroying machine. No. 1,382,017; June 21; v. 287; p. 433.

Salas, Adolfo S., Buenos Aires, Argentina. Pneumothermic apparatus. No. 1,380,841; June 7; v. 287; p. 99.

Salgee, Charles P., Philadelphia, Pa. Antiskid-tire. No. 1,381,749; June 14; v. 287; p. 328.

Sallee, Harvey J., Whitehouse, Calif. Internal-combustion engine. No. 1,380,742; June 7; v. 287; p. 79.

Samphere, Orin C., West Allis, Wis. Dental device. No. 1,381,750; June 14; v. 287; p. 328.

Sampson, Lloyd J., Worcester, Mass. Telephone attachment. No. 1,381,343; June 14; v. 287; p. 246.

Samuels, Maurice M., and F. N. Bechoff, New York, N. Y. Disconnecting-switch. No. 1,381,344; June 14; v. 287; p. 246.

Samuelson, Carl R., Portland, Oreg. Cable-cutter. No. 1,381,019; June 7; v. 287; p. 194.

Sandbeck, Gustaf E., New York, N. Y. Slicing-machine. No. 1,381,091; June 7; v. 287; p. 147.

Sandberg, James T. Gottenborg, Sweden. Belt-pulley and similar device. No. 1,382,821; June 21; v. 287; p. 489.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Dynamo-electric machine. No. 1,381,505; June 14; v. 287; p. 275.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph control device. No. 1,381,506; June 14; v. 287; p. 275.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph control device. No. 1,381,507; June 14; v. 287; p. 276.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Fingering device for self-playing stringed instruments. No. 1,381,508; June 14; v. 287; p. 276.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Producing moving pictures. No. 1,381,849; June 14; v. 287; p. 341.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Electromagnetic switch. No. 1,382,246; June 21; v. 287; p. 475.

Sanders, Florence E., Benson, Minn. Shoe-rack. No. 1,380,683; June 7; v. 287; p. 68.

Sani-Tite Cap Company. (See Beavers, E., and Webber, assignors.)

Sankey, Henry C., St. Louis, Mo. Protective covering for rubber tires. No. 1,381,345; June 14; v. 287; p. 246.

Sanneman, Diedrich B. (See Trubenbach, C. D., and Sanneman.)

Sapp, George E., Sacramento, Calif. Vulcanizing air-bag. No. 1,380,930; June 7; v. 287; p. 116.

Sargent, George E., Hampton, Iowa. Dumping-bed. No. 1,382,860; June 28; v. 287; p. 647.

Sarson, O. F., *et al.* (See Matheny, Thurston, assignor.)

Sauereisen, Christian F., West View, Pa. Strain-insulator sign. No. 1,381,594; June 14; v. 287; p. 293.

Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Propelpencil. No. 1,380,743; June 7; v. 287; p. 80.

Sauvage, Herbert J. (See Evers, A. J., and Sauvage.)

Savage, Wallace, New York, N. Y. Depiming hides. No. 1,382,124; June 21; v. 287; p. 452.

Save-A-Room Furniture Manufacturing Company. (See Freeman, John, assignor.)

Savy, Emile, Paris, France. Drying apparatus. No. 1,381,486; June 14; v. 287; p. 263.

Sax, George F. (See Nitsch, Frederick L., assignor.)

Scames, Arthur E. L., Ashton-on-Mersey, England, assignor to Westinghouse Electric & Manufacturing Company. Condenser. No. 1,382,676; June 28; v. 287; p. 612.

Scanlan, Anna, New York, N. Y. Mattress. No. 1,381,751; June 14; v. 287; p. 323.

Schaap, Alexander K., New York, N. Y. Piston-ring. No. 1,381,668; June 14; v. 287; p. 307.

Schabacker, Henry E., Thorold, Ontario, Canada, assignor to The Exolon Company, Boston, Mass. Silicon carbid and making same. No. 1,381,346; June 14; v. 287; p. 246.

Schadee, Gustav, New York, N. Y. Valve-grinder. No. 1,382,934; June 28; v. 287; p. 660.

Schaefer, Alexander L., Bolton, Ontario, Canada. Water-heating device for oil-stoves. No. 1,381,595; June 14; v. 287; p. 293.

Schaefer, Leo J., Toledo, Ohio. Rubber heel. No. 1,383,155; June 28; v. 287; p. 703.

Schäfer, Béla B., Baden, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Automatic-starting apparatus for metal-vapor rectifiers. No. 1,381,077; June 7; v. 287; p. 145.

Schäfer, Robert, Erfurt, Germany. Device for operating the jaws of spanners and the like. No. 1,382,247; June 21; v. 287; p. 475.

Schäfer, Robert, Erfurt, Germany. Adjustable spanner. No. 1,382,248; June 21; v. 287; p. 475.

Schaffer, August, Columbus, Ohio. Stove. No. 1,380,842; June 7; v. 287; p. 99.

Schairer, Otto S., Oakmont, and W. R. Coley, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,382,035; June 28; v. 287; p. 661.

Schaller, William F., San Francisco, Calif. Processing-machine for fruits and vegetables. No. 1,381,347; June 14; v. 287; p. 246.

Schaub, Hans, and C. Künzli, Zurich, Switzerland. Electric signaling apparatus for cars on electric and other railways. No. 1,381,020; June 7; v. 287; p. 134.

Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,604; June 28; v. 287; p. 636.

Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,605; June 28; v. 287; p. 636.

Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,606; June 28; v. 287; p. 636.

Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,807; June 28; v. 287; p. 637.

Schenk, Ella M. (See Schenk, John M., assignor.)

Schenk, Ella M., administratrix. (See Schenk, John M.)

Schenk, John M., deceased, by E. M. Schenk, administratrix, assignor to E. M. Schenk, Waterloo, Iowa. Machine for forming concrete blocks. No. 1,380,598; June 7; v. 287; p. 52.

Schenk, Tamis C., Amsterdam, Netherlands. Clamp for angular and cross connections of beams. No. 1,382,249; June 21; v. 287; p. 476.

Schenker, Irving, Ellenville, N. Y. Clothesline-protector. No. 1,380,843; June 7; v. 287; p. 100.

Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Combined hot-air and cold-air register. No. 1,381,348; June 14; v. 287; p. 247.

Scherer, Clarence, Center, N. D. Lapping-tool. No. 1,382,552; June 21; v. 287; p. 534.

Scheyer, Emanuel, New York, N. Y. Automatic lathe. No. 1,381,752; June 14; v. 287; p. 323.

Schick, Hugo, St. Louis, Mo. Combination backing and post for artificial anterior teeth. No. 1,383,029; June 28; v. 287; p. 679.

Schick, Hugo, St. Louis, Mo. Combination backing and post for artificial anterior teeth. No. 1,383,030; June 28; v. 287; p. 679.

Schieffelin, Schuyler, Tuxedo Park, N. Y., assignor to H. L. Brown, Newark, N. J. Retort. No. 1,381,936; June 21; v. 287; p. 418.

Schifferle, Charles, Marysville, Calif. Apparatus for separating materials of different specific gravities. No. 1,381,596; June 14; v. 287; p. 293.

Schifferle, Charles J., and L., Berkeley, Calif. Vehicle-wheel. No. 1,381,597; June 14; v. 287; p. 293.

Schifferle, Leo. (See Schifferle, Charles J., and L.)

Schlager, Frank J., Burlington, Iowa. Washboard-anchor. No. 1,381,753; June 14; v. 287; p. 323.

Schleicher, William A., Cleveland, Ohio. Hood-fastener. No. 1,382,322; June 21; v. 287; p. 489.

Schlesener, Walter, Hope, Kans. Wagon attachment. No. 1,382,553; June 21; v. 287; p. 534.

Schilling, Walter W., Schenectady, N. Y., assignor to General Electric Company. Circuit-control mechanism. No. 1,382,936; June 28; v. 287; p. 661.

Schlote, Guido F., Afton, Wyo. Electric-switch lock. No. 1,381,021; June 7; v. 287; p. 134.

Schmid, Edward, Columbus, Ohio. Protective device for tractor-wheels. No. 1,380,421; June 7; v. 287; p. 18.

Schmid, Gerald J. Schmid, A. E. Brichacek, and H. Tully, Schuyler, Nebr. Adjustable draft connection. No. 1,382,554; June 21; v. 287; p. 534.

Schmid, Joseph. (See Schmid, Gerald, and J. Brichacek, and Tully.)

Schmidt, Herman, New York, assignor to E. B. Priebe and W. C. Drake, Inwood, N. Y. Twyer construction for furnaces and underfeed stokers. No. 1,380,844; June 7; v. 287; p. 100.

Schmidt, John C. (See Reinhard, R., and Schmitt.)

Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Printing-plate starter. No. 1,381,349; June 14; v. 287; p. 247.

Schmitz, Fritz, Brooklyn, assignor to Jaburg Brothers, New York, N. Y. Culinary implement. No. 1,382,677; June 28; v. 287; p. 612.

Schmoll, Henry J., Racine, Wis. Calf-weaner. No. 1,382,555; June 21; v. 287; p. 535.

Schneider, Daniel, Lodi, Calif. Flour-sifter. No. 1,382,037; June 28; v. 287; p. 661.

Schneider, Edward J., St. Louis, Mo. Whistle. No. 1,382,744; June 28; v. 287; p. 624.

Schneider, Jean J. M. A. E., Paris, France. Arming of fighting and other aeroplanes. No. 1,383,242; June 28; v. 287; p. 719.

Schoel, August, assignor of three-tenths to G. Schoel, Waterloo, Iowa. Doughnut-machine. No. 1,381,850; June 14; v. 287; p. 341.

Schoel, George. (See Schoel, August, assignor.)

Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Welt-beating machine. No. 1,382,443; June 21; v. 287; p. 514.

Schoenthal, Fred C., Buffalo, N. Y. Disk wheel. No. 1,382,556; June 21; v. 287; p. 535.

Schoenwolf, Fred, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Electrical rectifier and pole-changer. No. 1,382,745; June 28; v. 287; p. 625.

Scholl, William M., Chicago, Ill. Felt pad. No. 1,382,673; June 28; v. 287; p. 612.

Schpatz, Arthur G., Milwaukee, Wis. Portable truck. No. 1,382,557; June 21; v. 287; p. 535.

Schrader, Arthur R., Chicago, Ill. Milk-bottle attachment. No. 1,381,754; June 14; v. 287; p. 324.

Schrader, Lloyd F., W. E. Roberts and V. Bredlik, assignors, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Distillation-oven. No. 1,382,746; June 28; v. 287; p. 625.

Schreiber, Edward A. (See Russell, E. A., and Schreiber.)

Schreiber, Edward A., assignor to E. H. Gold, Chicago, Ill. Tank-car-heating apparatus. No. 1,381,669; June 14; v. 287; p. 307.

Schreiber, John H., St. Louis, Mo. Air-pump. No. 1,382,018; June 21; v. 287; p. 433.

Schreiner, Arthur W., Brooklyn, assignor to Standard Scientific Company, New York, N. Y. Siphon. No. 1,382,600; June 21; v. 287; p. 543.

Schröder, Henry, Chicago, Ill. Aeroplane. No. 1,382,861; June 28; v. 287; p. 647.

Schroeder, Herman, Quincy, Ill. Poisonous compound for rats, &c. (Reissue.) No. 15,130; June 21; v. 287; p. 546.

Schroedter, John O., and J. Kelling, assignors to Monarch Fleshing Machine Company, Milwaukee, Wis. Fleshing-machine. No. 1,382,126; June 21; v. 287; p. 453.

Schroeter, Oscar J., St. Louis, Mo. Mole-trap. No. 1,382,125; June 21; v. 287; p. 452.

Schuler, Adam F., Philadelphia, Pa. Jacquard mechanism. No. 1,382,558; June 21; v. 287; p. 535.

Schultz, Emile J. A., Paris, France. Internal-combustion engine. No. 1,380,422; June 7; v. 287; p. 18.

Schultz, Ferdinand H., Treynor, Iowa. Flying toy. No. 1,382,559; June 21; v. 287; p. 535.

Schultz, Ferdinand H., Treynor, Iowa. Flying-toy gun. No. 1,382,560; June 21; v. 287; p. 535.

Schulze, Arthur, assignor of one-half to Deutsche Lichtbild-Gesellschaft E. V., Berlin, Germany. Optical projection-screen. No. 1,381,022; June 7; v. 287; p. 134.

Schumacher, Henry, Alma, Mo. Controlling device for petcocks of automobiles. No. 1,381,670; June 14; v. 287; p. 307.

Schumaker, Edward E., Hilbert, Wis. Water-elevating unit. No. 1,383,031; June 28; v. 287; p. 679.

Schurle, John F., Cashmere, Wash. Tractor attachment. No. 1,381,755; June 14; v. 287; p. 324.

Schwaner, John M., Brooklyn, N. Y. Cleansing and polishing paste. No. 1,382,019; June 21; v. 287; p. 433.

Schwartz, Aaron, Brookline, assignor to Safepack Mills, Boston, Mass. Paper-reinforcing machine. No. 1,383,243; June 28; v. 287; p. 719.

Schwartz, Fred A., Brooklyn, N. Y. Automatically-adjustable knives for use with rubber-working calenders. No. 1,381,242; June 14; v. 287; p. 227.

Schwarzer, Fritz, St. Gallen, Switzerland. Combination air-valve and priming-cup. No. 1,383,244; June 28; v. 287; p. 719.

Schweinert, Maximilian C., West Hoboken, N. J. Pneumatic valve. No. 1,382,389; June 21; v. 287; p. 503.

Schweinert, Maximilian C., West Hoboken, N. J. Water-bottle stopper. No. 1,382,679; June 28; v. 287; p. 612.

Schweitzer, Edmund O. (See Herz, Alfred, assignor.)

Schwier, Emmett H., Huntington, N. Y. Stadia-rod. No. 1,381,022; June 7; v. 287; p. 135.

Schwimmer, Frederick J., Toledo, Ohio, assignor to Howard Iron Works, Buffalo, N. Y. Bolt-heading machine. No. 1,381,509; June 14; v. 287; p. 276.

Schwitzer, Louis, assignor to Automotive Parts Company, Indianapolis, Ind. Lubricating means for fans. No. 1,381,671; June 14; v. 287; p. 307.

Scott, Alexander N., assignor to The Diebold Safe & Lock Company, Canton, Ohio. Safe. No. 1,381,935; June 21; v. 287; p. 418.

Scott, Annie, West Kensington, London, England. Valve-gear for internal-combustion engines. No. 1,383,163; June 28; v. 287; p. 704.

Scott, Charles R., Wyandotte, Okla. Transmission-gearing. No. 1,380,599; June 7; v. 287; p. 52.

Scott, Edward M., Oberlin, Ohio. Jack for motor-driven vehicles. No. 1,382,250; June 21; v. 287; p. 476.

Scoville, Frank F., Schenectady, N. Y. Valve-operating lever. No. 1,382,020; June 21; v. 287; p. 433.

Scranton, William F., Washington, D. C. Receptacle for adding-machines, typewriters, desks, and the like. No. 1,383,032; June 28; v. 287; p. 679.

Scrivenor, Arthur, Richmond, Va. Grinding-machine. No. 1,382,747; June 28; v. 287; p. 625.

Scroeder's Son, A., Incorporated. (See Myers, Eugene E., assignor.)

Scullin Steel Co. (See Doerr, Harry E., assignor.)

Sea, Philip N., Chicago, Ill. Calculating-machine. No. 1,381,851; June 14; v. 287; p. 342.

Sea, Philip N., Chicago, Ill. Filing device. No. 1,381,937; June 21; v. 287; p. 418.

Seanor, George L., Sapulpa, Okla., assignor of one-half to A. S. Abbott, Springfield, Mo. Convertible stock-car. No. 1,380,845; June 7; v. 287; p. 100.

Searle, Elbert H., Bridgeport, Conn. Reloading mechanism for magazine-firearms. No. 1,382,680; June 28; v. 287; p. 612.

Searles, Daniel, trustee. (See Pilliod, Charles J., assignor.)

Sears, Roebuck and Co. (See Lords, Thaddeus J., assignor.)

Secaler, D. M., Implement & Carriage Company. (See Hartsock, Sherman C., assignor.)

Secker, Maurice E. S., London, England. Wire-bound box. No. 1,382,323; June 21; v. 287; p. 489.

Seery, Peter H., Newark, N. J. Umbrella-rib. No. 1,381,350; June 14; v. 287; p. 247.

Segal, Samuel, New York, N. Y. Toothbrush. No. 1,382,681; June 28; v. 287; p. 612.

Segelhorst, William F., *et al.* (See Recktenwald, John, assignor.)

Seimbille, Louis E., Paris, France. Electric water-heater. No. 1,383,033; June 28; v. 287; p. 680.

Seimbille, Louis E., Paris, France. Electric water-heater. No. 1,383,034; June 28; v. 287; p. 680.

Seiss, George J., Toledo, Ohio. Mechanically-actuated horn. No. 1,382,390; June 21; v. 287; p. 503.

Seitz, Milton H., Akron, Ohio. Playground-marker. No. 1,380,600; June 7; v. 287; p. 52.

Selk, Gustav J., Bend, Oreg. Automatic safety-stop for steam-engines. No. 1,381,756; June 14; v. 287; p. 324.

Sellers, James H., assignor to The National Sanitary Service Company, Oklahoma, Okla. Toilet-paper dispenser. No. 1,383,245; June 28; v. 287; p. 720.

Sellers, William & Company. (See Benzon, George H., Jr., assignor.)

Selis, Ogden S., Buffalo, N. Y., assignor to Peerless Husker Company, Buffalo, N. Y., Copartnership. Vegetable-washer. No. 1,381,510; June 14; v. 287; p. 276.

Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Precipitating aluminium compound. No. 1,382,808; June 28; v. 287; p. 637.

Sera, Ryumatsu, Los Angeles, Calif. Tire. No. 1,380,501; June 7; v. 287; p. 34.

Serr, Francis G. (See Bush, F. P., Serr, and Powell.)

Sessler, Marcel K., assignor to American Spike Company, Incorporated, New York, N. Y. Spike. No. 1,380,423; June 7; v. 287; p. 19.

Sessler, Marcel K., assignor to American Spike Company, Incorporated, New York, N. Y. Spike. No. 1,380,424; June 7; v. 287; p. 19.

Seward, William, Baltimore, Md. Mold for vulcanizing pneumatic tires. No. 1,380,425; June 7; v. 287; p. 19.

Seward, William, Baltimore, Md. Vulcanizing pneumatic tires. No. 1,380,426; June 7; v. 287; p. 19.

Sewell, William E. (See Frisbie, Nelson D., assignor.)

Sexton Mfg. Co. (See Dwyer, Leo T., assignor.)

Seymour, Jonathan C., and A. McKellar, Salt Lake City, Utah. Jack. No. 1,382,682; June 28; v. 287; p. 613.

Seymour, Mark T., Stowe, N. Y. Electric coffee and peanut roaster. No. 1,381,243; June 14; v. 287; p. 228.

Sgalitzer, Friedrich, Vienna, Austria. Manufacture of a food preparation from fresh blood. No. 1,380,427; June 7; v. 287; p. 20.

Shackleton, Harry, North Providence, R. I., and J. Gordon, New Bedford, Mass. Polishing composition. No. 1,382,127; June 21; v. 287; p. 453.

Shackleton, Samuel P. (See Demarest, C. S., and Shackleton.)

Shafer, Timothy E., Fowler, Calif. Dumping-truck. No. 1,380,601; June 7; v. 287; p. 52.

Shallenberger, Louis R., Pueblo, Colo. Metal culvert. No. 1,381,244; June 14; v. 287; p. 228.

Shannon, James, Canonburg, and W. M. Simpson, Hastings, England. Oil cooking-stove. No. 1,382,128; June 21; v. 287; p. 453.

Sharp, Charlie, Dizney, Ky. Train control. No. 1,382,561; June 21; v. 287; p. 536.

Sharp, Justin I., Wallace, Mo. Combination slip-over spoke end, tenon, and felly protector. No. 1,382,021; June 21; v. 287; p. 434.
Sharples Separator Co., The. (See Dixon, Walter G., assignor.)
Shaul, Charles W., Grinnell, Iowa. Punching and cutting pliers. No. 1,381,024; June 7; v. 287; p. 135.
Shaw, Rolla C., and F. C. Skadan, Los Angeles, Calif.; said Skadan assignor to said Shaw. Clamp. No. 1,381,351; June 14; v. 287; p. 247.
Shaw Walker Company, (See Hunter, David E., assignor.)
Shaw, Wallace F., Westfield, Mass. Dental-napkin holder. No. 1,381,672; June 14; v. 287; p. 308.
Sheafor, Dee L., Chicago, Ill., assignor, by mesne assignments, of one-half to H. D. Martindale, Middletown, Ohio. Valve. No. 1,381,938; June 21; v. 287; p. 418.
Sheean, James, Camden, N. J. Notebook-holder. No. 1,381,757; June 14; v. 287; p. 324.
Sheehy, Jeremiah J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,380,931; June 7; v. 287; p. 116.
Sheller, Wm., *et al.* (See Flood, John R., assignor.)
Shellmer, Herman. (See Brinkman, L. H., Fulton, and Shellmer.)
Shelton, William G., New York, N. Y. Drink-mixer. No. 1,382,683; June 28; v. 287; p. 613.
Sheppard, William A. (See Sherman, J. A., and Sheppard.)
Sherman, Cleveland A., Alamosa, Colo. Crutch. No. 1,383,156; June 28; v. 287; p. 703.
Sherman, John A., and W. A. Sheppard, Worcester, Mass. Means for securing fuel-combustion. No. 1,382,391; June 21; v. 287; p. 503.
Sherman, Willis S., Milwaukee, Wis. Work-feed-tripping means. No. 1,381,352; June 14; v. 287; p. 247.
Sherwood, Charles F. (See Hansen, G. T., and Sherwood.)
Sherwood, Charles F., assignor of 90 per cent. to G. T. Hansen, Salt Lake City, Utah, and, by mesne assignments, of 5 per cent. to T. A. Ryan and 5 per cent. to B. O. Jones, Denver, Colo. Agitating-machine. No. 1,381,673; June 14; v. 287; p. 308.
Shevlin, Miles, Houston, Tex., assignor to W. L. Drake, Des Moines, Iowa. Valve for pumps. No. 1,381,078; June 7; v. 287; p. 145.
Shibata, Takejiro, and E. Oe, Kita-Ku, Osaka, Japan. Waterproofing composition and making same. No. 1,380,428; June 7; v. 287; p. 20.
Shields, Henry B., Freeport, N. Y. Airplane. No. 1,383,157; June 28; v. 287; p. 703.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,381,353; June 14; v. 287; p. 248.
Shields, Lytton J., St. Paul, Minn. Storage-battery connector. No. 1,382,129; June 21; v. 287; p. 453.
Shimper, Edmund W., Irvington, N. J. Nozzle. No. 1,382,684; June 28; v. 287; p. 613.
Shirley Brothers Company. (See Downer, Fred C., assignor.)
Shishkoff, Paul, Richmond, England. Regulating and controlling the transmission of power. No. 1,381,354; June 14; v. 287; p. 248.
Shivers, Clifford H. (See Ballinger, W. F., and Shivers.) (Reissue.)
Shockley, H. C. (See Stanbury, G. E., and Harper, assignors.)
Shoe Machinery Corporation. (See Stewart, William C., assignor.)
Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Bearing-shim. No. 1,383,035; June 28; v. 287; p. 680.
Short, David L. (See West, Augustus A., assignor.)
Showalter, Roy C., assignor of one-fifth to S. S. Crane and two-fifths to J. P. Reilly, Altoona, Pa. Trolley-harp. No. 1,380,684; June 7; v. 287; p. 68.
Shreve, Ephraim G., Atlantic City, N. J. Article-holder. No. 1,380,932; June 7; v. 287; p. 116.
Shultz, Adam, Worcester, Mass. Trolley. No. 1,383,158; June 28; v. 287; p. 703.
Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Machinery for rolling glass. No. 1,382,608; June 21; v. 287; p. 545.
Shupert, Elgin D. (See Lonney, Thomas C., assignor.)
Shuster, Irving C., Newark, N. J. Stock and die. No. 1,382,392; June 21; v. 287; p. 503.
Sibley, James T., Newark, N. J. Electric motor for talking-machines. No. 1,381,138; June 14; v. 287; p. 209.
Sibley, William M. (See Byrne, G. M., and Sibley.)
Sibson, Walter W. (See Allsop, T., and Sibson.)
Siebert, Adolph G. (See Kropf, Walter R., assignor.)
Siebert, Henry, Ulm, Ark. Sheaf-cutting machine. No. 1,382,562; June 21; v. 287; p. 536.
Siebert, Irwin, Cleveland, Ohio. Washing-machine. No. 1,381,355; June 14; v. 287; p. 248.
Siefer, William H., Wayland, Iowa. Coupling. No. 1,382,324; June 21; v. 287; p. 490.
Siert, Alvin H. (See Siert, John H., and A. H.)
Siert, John H., and A. H., Omaha, Nebr. Laundrying-machine. No. 1,380,602; June 7; v. 287; p. 52.
Sifford, Luther P., Barstow, Calif. Swimming appliance. No. 1,383,036; June 28; v. 287; p. 680.
Sikma, William H., Oakglen, Ill. Cutting and bunching device. No. 1,382,022; June 21; v. 287; p. 434.
Sills, Frederick R., assignor of one-half to Carolina Motor Company, Statesville, N. C. Dumping-truck. No. 1,380,846; June 7; v. 287; p. 100.
Silver Lock Stitch Sewing Machine Syndicate. (See Barry, Herbert A. L., assignor.)
Silverman, Charles, Providence, R. I. Collar-holder. No. 1,382,023; June 21; v. 287; p. 434.
Simmons, Charles A., Albany, N. Y. Tool-holder. No. 1,380,744; June 7; v. 287; p. 80.
Simon, Louis J., and J. W. Hinchley, assignors of one-third to Standar Chemical Engineering Company, Limited, London, England. Apparatus for extracting oils, fats, grease, wax, india rubber, sulfur, and other substances soluble in organic solvents from materials containing the same. No. 1,381,758; June 14; v. 287; p. 324.
Simplex Ice Machine Company. (See Moore, Harrison E., assignor.)
Simplo Fullfeder Gesellschaft Voss, Lausen & Dziambor Fabrik fur Fullfederhalter und Goldfedern. (See Dziambor, Wilhelm G. H., assignor.)
Simpson, A. B., *et al.* (See Lukens, W. R., and Gallagher, assignors.)
Simpson, Clarence O., St. Louis, Mo. Film-mounting. No. 1,381,674; June 14; v. 287; p. 308.
Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Window-supporting latch. No. 1,381,675; June 14; v. 287; p. 308.
Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Window-supporting device. No. 1,381,676; June 14; v. 287; p. 308.
Simpson, John W., Santa Barbara, Calif. Air-nozzle for locomotive-sanders. No. 1,382,862; June 28; v. 287; p. 647.
Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,381,245; June 14; v. 287; p. 228.
Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,381,246; June 14; v. 287; p. 228.
Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,381,247; June 14; v. 287; p. 228.
Simpson, William M. (See Shannon, J., and Simpson.)
Sims, Frederick L. H., Toronto, Ontario, Canada. Clamp. No. 1,382,024; June 21; v. 287; p. 434.
Sinclair, Nell, assignor to The Rip Van Winkle Wall Bed Company, Oakland, Calif. Extensible bed. No. 1,380,502; June 7; v. 287; p. 34.
Singer, Bernard J. (See Singer, William O., and B. J.)
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
Singer, William O., and B. J. Cresson, Pa. Wrench. No. 1,382,685; June 28; v. 287; p. 613.
Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Reinforcement for the end walls of railway box-cars. No. 1,382,025; June 21; v. 287; p. 434.
Skadan, Floyd C. (See Shaw, R. C., and Skadan.)
Skerl, Francisco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing machine. No. 1,382,938; June 28; v. 287; p. 661.
Skidmore, Benjamin, Jr., Chicago, Ill. Suction-creating apparatus. No. 1,382,444; June 21; v. 287; p. 514.
Skinner, John F. (See Vincent, H. H., and Skinner.)
Slack, John T., Corporation. (See Jacobs, Julian S., assignor.)
Slasor, Kate, Seattle, Wash. Footwear-protector. No. 1,382,748; June 28; v. 287; p. 625.
Slater, Dwight C., Essex Junction, Vt. Variable-speed-transmission mechanism. No. 1,383,159; June 28; v. 287; p. 703.
Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Support for rotating stope-drills. No. 1,382,325; June 21; v. 287; p. 490.
Slaughan, Solomon S., Homestead Park, Pa. Chain grate. No. 1,382,686; June 28; v. 287; p. 614.
Slepian, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for electrolytic condensers. No. 1,381,356; June 14; v. 287; p. 248.
Slind, Donald P., Ryley, Alberta, Canada. Lock. No. 1,380,503; June 7; v. 287; p. 34.
Slisman, Samuel, Chelsea, Mass. Gasolene-tank. No. 1,382,863; June 28; v. 287; p. 647.
Sloan-Striker Company. (See Royer, Lloyd D., assignor.)
Sloper, Thomas, Devizes, England. Press. No. 1,382,326; June 21; v. 287; p. 490.
Slote, Benjamin, New York, N. Y. Belt-buckle attachment. No. 1,382,130; June 21; v. 287; p. 453.
Small, Robert E., Schenectady, N. Y. Propellling mechanism. No. 1,381,939; June 21; v. 287; p. 418.
Smiley, George E. (See Benupre, John P., assignor.)
Smith, Arthur D., assignor to F. H. Cieslik, Brooklyn, N. Y. Ice-making. No. 1,380,933; June 7; v. 287; p. 116.
Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Convertible box and stand. No. 1,382,393; June 21; v. 287; p. 504.

Smith, Clement C., Wheeling, W. Va. Car-dumping platform. No. 1,380,745; June 7; v. 287; p. 80.
Smith & Coventry. (See Wright, Isaac H., assignor.)
Smith, Curtis M., Washington, D. C., and H. Weigand, La Crosse, Kans. Refrigerating apparatus. No. 1,383,246; June 28; v. 287; p. 720.
Smith, Curtis M., Washington, D. C., and H. Weigand, Baxter Springs, Kans. Absorbent material for use in ice-machines. No. 1,383,247; June 28; v. 287; p. 720.
Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,382,445; June 21; v. 287; p. 514.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Valve. No. 1,381,511; June 14; v. 287; p. 276.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Speed-governing mechanism for prime-movers. No. 1,381,512; June 14; v. 287; p. 277.
Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Speed regulation. No. 1,381,513; June 14; v. 287; p. 277.
Smith, Henry L., Paterson, N. J. Commutator device for automobile ignition systems. No. 1,382,864; June 28; v. 287; p. 647.
Smith, J. A., *et al.*, trustees. (See Kerr, Augustus H., assignor.)
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine and supports therefor. No. 1,380,746; June 7; v. 287; p. 80.
Smith, Jesse R., Benton, Ill. Railway-tie renewer. No. 1,381,759; June 14; v. 287; p. 325.
Smith, John L., Hamilton, Ontario, Canada. Device for removing flaws from steel billets while hot. No. 1,380,430; June 7; v. 287; p. 20.
Smith, Lee H., Sedan, Kans. Flexible coupling for magnetos. No. 1,383,160; June 28; v. 287; p. 704.
Smith, Oscar A., assignor to The National Acme Company, Cleveland, Ohio. Hub-nut and making the same. No. 1,381,437; June 14; v. 287; p. 263.
Smith, Ray S., Oakland, Calif. Accompaniment control for player-pianos. No. 1,382,749; June 28; v. 287; p. 625.
Smith, Sydney, Detroit, Mich., assignor to The Studebaker Corporation. Treating wood. No. 1,380,429; June 7; v. 287; p. 20.
Smith, Sidney P. (See Brown, A. C., and Smith.)
Smith & Wesson. (See Pomeroy, Edward S., assignor.)
Smith, William C., Chicago, Ill. Autographic register. No. 1,381,140; June 14; v. 287; p. 209.
Smith, William M., Bloomsbury, England. Sound reproducing and recording apparatus. No. 1,383,271; June 28; v. 287; p. 724.
Smith, William W., assignor of one-half to W. C. Kidder, Buffalo, N. Y. Propeller. No. 1,380,431; June 7; v. 287; p. 20.
Smoot, Charles H., South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Elastic-fluid-pressure multiplier. No. 1,381,139; June 14; v. 287; p. 209.
Smurr, Samuel P., Chicago, Ill., assignor, by mesne assignments, to V. V. Waldo. Machine for coiling wire. No. 1,382,251; June 21; v. 287; p. 476.
Smythe, Thomas E., Hammond, Ind. Pneumatic pump. No. 1,380,603; June 7; v. 287; p. 53.
Snead & Co. Iron Works, The. (See Macdonald, Angus S., assignor.)
Snell, Charles. (See Livergood, Gerald R., assignor.)
Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Slip-cover for motor-vehicle tops. No. 1,381,141; June 14; v. 287; p. 209.
Snelling, Walter O., Allentown, Pa. Photochemical apparatus. No. 1,382,252; June 21; v. 287; p. 476.
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive. No. 1,382,563; June 21; v. 287; p. 536.
Snyder, Francis M., Mansfield, Ohio. Means for coupling and uncoupling relatively movable members of machines. No. 1,382,131; June 21; v. 287; p. 454.
Snyder, Frank. (See Nelson, C., and Snyder.)
Snyder, Herbert W. (See Woodard, W. E., and Snyder.)
Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing-machine. No. 1,381,940; June 21; v. 287; p. 419.
Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing-machine. No. 1,381,941; June 21; v. 287; p. 419.
Snyder O. K., and C. H. Kenrich, assignors to The American Wood Rim Company, Onaway, Mich. Steering-wheel. No. 1,381,025; June 7; v. 287; p. 135.
Snyder, Willoughby E., Allentown, Pa. Process of and apparatus for burning cements. No. 1,381,026; June 7; v. 287; p. 135.
Societe Anonyme Des Etablissements Delaunay Belleville. (See Bourdelles, Emile A. L., assignor.)
Societe Anonyme Des Automobiles Et Cycles Peugeot. (See Glauque, Pierre L. A., assignor.)
Society of Chemical Industry in Basle. (See Jagerspacher, Carl, assignor.)
Soderling, Walter, assignor, by mesne assignments, to Willson Giggies, Inc., Reading, Pa. Molded device. No. 1,382,865; June 28; v. 287; p. 647.
Sommer, Otto, assignor to Stauwerke A.-G., Zurich, Switzerland. Movable dam of ferroconcrete. No. 1,382,132; June 21; v. 287; p. 454.
Soper, C. P., Maplewood, N. J., and J. A. Hall, Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic step-by-step mechanism. No. 1,381,514; June 14; v. 287; p. 277.
Sorensen, Frank L., assignor to The Metal Protection Laboratories, Detroit, Mich. Treating ferrous-metal articles. No. 1,380,847; June 7; v. 287; p. 100.
Sörensen, Marius M., Valleröd, near Rungsted, Denmark. Pulling-over machine for boots and shoes. No. 1,382,564; June 21; v. 287; p. 536.
Soss, Joseph, New York, N. Y. Window-frame for automobile-boods and the like. No. 1,381,357; June 14; v. 287; p. 248.
Spacie, Thomas, De Kalb, Ill. Driving and steering wheel. No. 1,382,253; June 21; v. 287; p. 476.
Spade, William P., Watervliet, assignor to Watervliet Tool Company, Inc., Albany, N. Y. Apparatus for rifling gun-barrels. No. 1,382,939; June 28; v. 287; p. 661.
Spalding, A. G., & Bros. (See Thorp, Edward J., assignor.)
Spalding, Claude E., Richmond, Calif. Concrete-form board. No. 1,383,161; June 28; v. 287; p. 704.
Sparks, John M., Washtucna, Wash. Weed-cutter. No. 1,381,358; June 14; v. 287; p. 249.
Spasoff, Chris, Berkeley, Calif. Burnishing-wheel cover. No. 1,382,254; June 21; v. 287; p. 477.
Spaulding, Elijah F., assignor to A. Zimtbaum, Brooklyn, N. Y. Vending-machine. No. 1,380,685; June 7; v. 287; p. 68.
Spear, Arthur, Chicago, Ill. Punching-machine. No. 1,382,687; June 28; v. 287; p. 614.
Spear, Arthur, assignor, by mesne assignments, to Archer Manufacturing Company, Chicago, Ill. Punching-machine. No. 1,382,940; June 28; v. 287; p. 662.
Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.)
Speer, Horace N., Scarsdale, N. Y. Back-rest. No. 1,380,934; June 7; v. 287; p. 117.
Speer, Horace N., Scarsdale, N. Y. Back-rest. No. 1,380,935; June 7; v. 287; p. 117.
Spencer, Arthur B., and F. E. Walker, Hucknall Torkard, assignors of one-third to G. Spencer, Lutterworth, Leicestershire, England. Driving mechanism for sewing-machines and the like. No. 1,382,133; June 21; v. 287; p. 454.
Spencer, Charley J., Osceola, Iowa. Shoe-stitcher attachment. No. 1,382,866; June 28; v. 287; p. 648.
Spencer, George. (See Spencer, A. B., and Walker, assignors.)
Sperry Gyroscope Company. (See Dubilier, William and P., assignors.)
Splitdorf Electrical Company. (See Grunow, W., assignor.)
Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
Sprague, Frank D., and P. W. Allison, New York, N. Y. Projectile. No. 1,382,750; June 28; v. 287; p. 626.
Sprague, Newton C., San Diego, Calif. Fish scaling and washing machine. No. 1,383,162; June 28; v. 287; p. 704.
Spray Engineering Company. (See Day, Herbert W., assignor.)
Spray Engineering Company. (See Parker, L. H., and Landon, assignors.)
Spurgin, Robert, Chicago, Ill. Coin-bag. No. 1,382,394; June 21; v. 287; p. 504.
Stack, Stanley W., Chicago, Ill. Curtain-pole support. No. 1,380,848; June 7; v. 287; p. 100.
Stacy, John H., Clintonville, Wis. Cover for ensilage. No. 1,380,849; June 7; v. 287; p. 101.
Staehle, Joseph A. (See Hines, R. E., Dellert, and Staehle.)
Stafford, Benjamin E. D. (See Dodds, E. I., and Stafford.)
Stafford, Benjamin E. D., Pittsburgh, Pa. Container for collapsible tubes. No. 1,382,134; June 21; v. 287; p. 454.
Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible tube and container for the same. No. 1,382,135; June 21; v. 287; p. 454.
Stafford, Benjamin E. D., Pittsburgh, Pa. Combined collapsible tube and container therefor. No. 1,382,136; June 21; v. 287; p. 454.
Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible tube and container for the same. No. 1,382,137; June 21; v. 287; p. 455.
Stafford, Benjamin E. D., Pittsburgh, Pa. Dispensing tube or box. No. 1,382,138; June 21; v. 287; p. 455.
Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible tube and container for the same. No. 1,382,139; June 21; v. 287; p. 455.
Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible dispensing tube and container. No. 1,382,140; June 21; v. 287; p. 455.
Stafford, Frederick A., Charlton, Iowa. Silo structure. No. 1,381,894; June 14; v. 287; p. 350.
Staines, Guy G., Albion, N. Y. Barrel-hoop-repair device. No. 1,381,760; June 14; v. 287; p. 325.
Staley, Harry B. (See Bennett, Arthur E., assignor.)
Staley, Joseph H., Columbus, Ind. Gear-puller. No. 1,381,142; June 14; v. 287; p. 240.

Stander Chemical Engineering Company. (See Simon, L. J., and Hinchley, assignors.)

Standard Engineering Company. (See Newcomb, Edward C., assignor.)

Standard Oil Company. (See Rogers, F. M., and McNeil, assignors.)

Standard Parts Company, The. (See Keys, Walter C., assignor.)

Standard Scientific Company. (See Schreiner, Arthur W., assignor.)

Standard Steel Spring Company. (See d'Orville, Theodore L. R., assignor.)

Standard Tire Protector Company, The. (See Austin, Albert L., assignor.)

Stanford, Maurice L., San Francisco, and M. Macaulay, Sausalito, Calif. Hook-rack. No. 1,380,747; June 7; v. 287; p. 80.

Stansbury, George E., and R. Harper, Catlin, assignors of one-half to H. C. Shockley, Danville, Ill. Support. No. 1,381,761; June 14; v. 287; p. 325.

Stauwerke A.-G. (See Sommer, Otto, assignor.)

Starmer, Mary, Newport News, Va. Suspender connection. No. 1,383,164; June 28; v. 287; p. 704.

Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,383,165; June 28; v. 287; p. 704.

Starr, Fletcher C., Philadelphia, Pa. Fuel-oil burner. No. 1,381,095; June 7; v. 287; p. 148.

Starr, Isidore, New York, N. Y. Picture-frame. No. 1,381,762; June 14; v. 287; p. 325.

Stasse, John, Laporte, Ind. Pneumatic-tire armor. No. 1,381,027; June 7; v. 287; p. 135.

Steam-Electric Products Company, The. (See W. F. Clark, assignor.)

Stearns Roger Manufacturing Company, The. (See Gordon, R. W., and Daman, assignors.)

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Shaft-packing. No. 1,382,941; June 28; v. 287; p. 662.

Steffan, George, New York, N. Y. Stone digging and collecting machine. No. 1,380,936; June 7; v. 287; p. 117.

Stein, Adolph H., executor. (See Hauck, Arthur E.)

Steinberger, Louis, Brooklyn, N. Y. Insulating collector-spool. No. 1,382,609; June 21; v. 287; p. 545.

Steindorff, Edward B., Stillwater, Minn. Tuning-slide for trumpets and the like. No. 1,382,688; June 28; v. 287; p. 614.

Steinman, William C., *et al.* (See Recktenwald, John, assignor.)

Steinkraus, Henry F., Bertha, assignor of one-third to W. P. Chase, Baker, Minn. Masonry silo. No. 1,383,166; June 28; v. 287; p. 705.

Stenbol, Carl, Sault Ste. Marie, Ontario, Canada. Wide-opening clam-shell bucket. No. 1,382,327; June 21; v. 287; p. 490.

Stencell, August J., Pembroke, Ontario, Canada. Stove-polish. No. 1,382,026; June 21; v. 287; p. 434.

Stenberg, Charles H., Radcliffe, Iowa. Oil-feed for wickless oil-burners. No. 1,383,167; June 28; v. 287; p. 705.

Stenner, Edgar J., assignor of one-third to H. F. Czarnowsky, and one-third to L. A. Engel, Baltimore, Md. Device for reversing printed forms. No. 1,381,677; June 14; v. 287; p. 308.

Sterling Engineering Co. (See Hutchinson, Frank L., assignor.)

Stetson, Frank C., *et al.* (See Roberts, Frank E., assignor.)

Stevens, E. F., *et al.* (See Lukens, W. R., and Gallagher, assignors.)

Stevens, Edward R., Worcester, Mass. Scraper. No. 1,381,248; June 14; v. 287; p. 228.

Stevens, William H., New York, N. Y. Clip or clasp. No. 1,381,438; June 14; v. 287; p. 264.

Stevenson, Ashton G., Chicago, Ill. Matrix-receptacle. No. 1,381,359; June 14; v. 287; p. 249.

Stevenson, John M., Mason City, Iowa. End-gate rod. No. 1,383,168; June 28; v. 287; p. 705.

Stevenson, Moses H., Rayville, La. Cotton-chopper. No. 1,381,028; June 7; v. 287; p. 136.

Stewart, Archibald D., Toronto, Ontario, Canada. Rudder attachment for boats. No. 1,382,809; June 28; v. 287; p. 637.

Stewart, Arthur L., E. W. Bullock, and S. H. Earl, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,380,937; June 7; v. 287; p. 117.

Stewart, George W., Weehawken, N. J. Packing. No. 1,381,942; June 21; v. 287; p. 419.

Stewart, Gertrude F. (See Stewart, Perez M., assignor.)

Stewart, Perez M., assignor to G. F. Stewart, New York, N. Y. Building construction. No. 1,380,432; June 7; v. 287; p. 20.

Stewart-Warner Speedometer Corporation. (See Goetz, Oscar H., assignor.)

Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)

Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,382,689; June 28; v. 287; p. 614.

Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,382,751; June 28; v. 287; p. 626.

Stewart, William E., Providence, R. I., assignor to Revere Rubber Company. Automatic take-up attachment. No. 1,381,249; June 14; v. 287; p. 229.

Stickels, Jesse M., Milwaukee, Wis. Ice-cream-brick-packing machine. No. 1,382,141; June 21; v. 287; p. 455.

Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,381,895; June 14; v. 287; p. 351.

Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,380,938; June 7; v. 287; p. 117.

Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,380,939; June 7; v. 287; p. 118.

Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Weft feeler-tip for looms. No. 1,380,940; June 7; v. 287; p. 118.

Stockel, Hans C., Chicago, Ill. Armored liner for tires. No. 1,382,565; June 21; v. 287; p. 536.

Stockham, William G., Piqua, Ohio. Railway-crossing. No. 1,380,433; June 7; v. 287; p. 20.

Stokes, Charles L., New York, N. Y. Apparatus for silencing and exhausting gases and method therefor. No. 1,382,690; June 28; v. 287; p. 614.

Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Sealed-wrapped package. No. 1,382,752; June 28; v. 287; p. 626.

Stokes & Smith Company. (See Stokes, John S., assignor.)

Stoll, August C., Ann Arbor, Mich. Spigot. No. 1,381,598; June 14; v. 287; p. 293.

Stone, Frank V., *et al.*, trustees. (See Waterhouse, Harold D., assignor.)

Stone, Robert A., Barrington, N. J. Jeweler's exhibition-tweezer. No. 1,382,867; June 28; v. 287; p. 648.

Stone, William L., Kansas City, Mo., assignor to Great Western Commercial Body Company, Omaha, Nebr. Adjustable and removable truck-platform. No. 1,382,328; June 21; v. 287; p. 491.

Stoops, Albert G., Indianapolis, Ind. Well-shooting-torpedo apparatus. No. 1,382,395; June 21; v. 287; p. 504.

Stopple, Walter W., assignor to A. J. Kirstin Company, Escanaba, Mich. Stump-puller. No. 1,380,748; June 7; v. 287; p. 81.

Storms, Jesse B., Lockport, N. Y. Auto-lifter. No. 1,383,169; June 28; v. 287; p. 705.

Storrie, William, assignor to Apco Manufacturing Company, Providence, R. I. Gas-engine muffler. No. 1,382,810; June 28; v. 287; p. 637.

Stowell, Edward R., Portland, Ind. Composition of matter for use in the formation of fireproof and insulating structures. No. 1,382,329; June 21; v. 287; p. 491.

Stran, George R., Cleveland, Ohio. Fastening means for molds. No. 1,380,434; June 7; v. 287; p. 21.

Strandwitz, William J. (See Lund, Alfred V. E., assignor.)

Strauch, David, Crestline, Ohio. Convertible wheeled vehicle. No. 1,382,566; June 21; v. 287; p. 536.

Strauser, William H., Fairmont, W. Va. Multiple-character stencil. No. 1,380,850; June 7; v. 287; p. 101.

Strebel, Louis, New York, N. Y. Motor-valve. No. 1,380,435; June 7; v. 287; p. 21.

Streick, Frank, assignor to Union Machinery Company, Joliet, Ill. Bucket for proofing apparatus. No. 1,382,610; June 21; v. 287; p. 545.

Strickland, William R., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Internal-combustion engine. No. 1,381,516; June 14; v. 287; p. 278.

Stridinger, Ferdinand, and R. Miller, St. Michael, Pa. Illuminated pencil. No. 1,381,763; June 13; v. 287; p. 325.

Strietmann's, George H., Sons Co., The. (See Meier, G. A., and Wicher, assignors.)

Strom, Swan R., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Washer and shaft. No. 1,381,360; June 14; v. 287; p. 249.

Strom, Will V. (See Pringle, Jesse N., assignor.)

Stromberg-Carlson Telephone Manufacturing Company. (See Dean, William W., assignor.)

Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)

Strong, James B., Hillburn, N. Y. Railway-crossover. No. 1,382,868; June 28; v. 287; p. 648.

Strong, James B., Hillburn, N. Y. Crossover. No. 1,382,869; June 28; v. 287; p. 648.

Strong-Scott Manufacturing Company, The. (See Quehl, Richard G., assignor.)

Strong, William J. W. (See Olson, Olof, H., assignor.)

Stuart, Orsini, Liverpool, England. Closure-fastener. No. 1,382,567; June 21; v. 287; p. 537.

Studebaker Corporation, The. (See Smith, Sydney, assignor.)

Studer, Caspar, Winterthur, Switzerland. Filing-cabinet. No. 1,381,361; June 14; v. 287; p. 249.

Studstill, William E., Murphy, N. C. Electric contact device. No. 1,383,037; June 28; v. 287; p. 681.

Stuebing Truck Company, The. (See Stuebing, William, Jr., assignor.)

Stuebing, William, Jr., assignor to The Stuebing Truck Company, Cincinnati, Ohio. Lifting-truck. No. 1,381,515; June 14; v. 287; p. 277.

Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cutter-head. No. 1,380,686; June 7; v. 287; p. 69.

Stumbaugh, Leman F., Denver, Colo. Steering-wheel hand-warming device for automobiles and marine and aviating machines. No. 1,380,604; June 7; v. 287; p. 53.

Stump, Ira E., Cleveland, Ohio. Valve. No. 1,383,170; June 28; v. 287; p. 705.

Stumpenhorst, John A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ignition breaker contact. No. 1,382,870; June 28; v. 287; p. 648.

Sturgeon, Robert A., Southsea, Portsmouth, England. Centrifugal separator. No. 1,382,142; June 21; v. 287; p. 455.

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-roll machine. No. 1,381,362; June 14; v. 287; p. 249.

Submarine Signal Company. (See Fessenden, Reginald A., assignor.)

Sullivan, Arthur B. (See Mott, Samuel D., assignor.)

Sullivan Machinery Company. (See Gilman, George H., assignor.)

Sullivan, Patrick J. M., Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y. Engine-frame. No. 1,382,811; June 28; v. 287; p. 637.

Sundby & Harris. (See Sundby, Olaf, assignor.)

Sundby, Olaf, assignor to Sundby & Harris, East Ellsworth, Wis. Tire-spreader. No. 1,380,436; June 7; v. 287; p. 21.

Sunder, Charles A., assignor to McKee Glass Company, Jeannette, Pa. Fire-polishing apparatus. No. 1,383,171; June 28; v. 287; p. 706.

Sundh Engineering and Machine Company. (See Sundh, August, assignor.)

Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Machine for treating metal strips. No. 1,380,437; June 7; v. 287; p. 21.

Super Valve Co. (See Birrell, James, assignor.)

Susnich, Eugene W., assignor to C. E. Webster, Wellsville, Ohio. Automatic heating system. No. 1,380,687; June 7; v. 287; p. 69.

Sutherland, Charles S. (See Dorrida, William F., assignor.)

Sutherland, Egbert C., assignor to Naamlooze Vennootschap Industrieele Maatschappij voorheen Noury & van der Lande, Deventer, Netherlands. Treating meal or flour and milling products. No. 1,381,079; June 7; v. 287; p. 145.

Swan & Finch Company. (See McNerney, James, assignor.)

Swan, Judge, Hamilton, Ontario, Canada. Comb. No. 1,382,568; June 21; v. 287; p. 537.

Swanberg, Julius, Chicago, Ill., assignor to Fabart Instrument Company, Pencil. No. 1,381,517; June 14; v. 287; p. 278.

Swanson, Axel R., Chicago, Ill. Boring-bar. No. 1,381,943; June 21; v. 287; p. 419.

Swanson, Hilda, Denver, Colo. Polishing compound. No. 1,381,250; June 14; v. 287; p. 229.

Swantees, Samuel F., St. Louis, Mo. Lock-garment. No. 1,380,605; June 7; v. 287; p. 53.

Swart, Walter G., F. A. Jordan, E. W. Davis, and T. B. Counselman, Duluth, Minn. Apparatus for magnetic sizing and grading of ore. No. 1,380,871; June 7; v. 287; p. 105.

Sweeney, Bernard J., assignor to The Conley Foil Company, New York, N. Y. Composite metallic sheet and making the same. No. 1,383,172; June 28; v. 287; p. 706.

Sweeney, Charles E., Osborne, Manitoba, Canada. Storage-bin. No. 1,380,688; June 7; v. 287; p. 69.

Sweeney, Luke W., Terre Haute, Ind. Railway-tie. No. 1,381,251; June 14; v. 287; p. 229.

Sweeny, John S., Galveston, Tex. Valve for flushing-tanks. No. 1,382,027; June 21; v. 287; p. 435.

Sweeny, John S., Galveston, Tex. Flushing-tank for siphon-closets. No. 1,382,028; June 21; v. 287; p. 435.

Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,381,944; June 21; v. 287; p. 419.

Swenson, Carl J., Port Arthur, Tex., Motorcycle-stand. No. 1,382,330; June 21; v. 287; p. 491.

Swenson Evaporator Company. (See De Beers, Franklin M., assignor.)

Szumkowski, Leonard S. (See Janicki, John, assignor.)

Szymanske, John R., Somers, Mont. Lumber-handling machine. No. 1,382,396; June 21; v. 287; p. 504.

Szczurek, Joseph, Chicago Heights, Ill. Air-opener for doors. No. 1,382,143; June 21; v. 287; p. 455.

Taber, George H., Jr. (See Alexander, C. M., and Taber, Jr.)

Taft-Peirce Manufacturing Company, The. (See Martell, Albert A., assignor.)

Taglianue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)

Tait, Godfrey M. S., assignor to American Pasteurizer Company, Inc., Washington, D. C. Temperature-controller. No. 1,382,569; June 21; v. 287; p. 537.

Taliaferro, Thomas L., Chicago, Ill. Jar-closure. No. 1,381,364; June 14; v. 287; p. 250.

Taliaferro, Thomas L., Chicago, Ill. Bottle-cap and sealing bottles. No. 1,381,365; June 14; v. 287; p. 250.

Taliaferro, Thomas L., Chicago, Ill., assignor to Phoenix-Hermetic Company, Brooklyn, N. Y. Cover for jars. No. 1,381,363; June 14; v. 287; p. 250.

Tamarin, Bernard J., Philadelphia, Pa. Lens for headlights. No. 1,382,871; June 28; v. 287; p. 648.

Tandy, John L., Tulsa, Okla. Sickle-bearing for mowers. No. 1,381,518; June 14; v. 287; p. 278.

Tannenbaum, Abraham, Brooklyn, N. Y. Garment-hanger. No. 1,381,439; June 14; v. 287; p. 263.

Tanner, Elmer A., Delta, Iowa. Automobile-lock. No. 1,382,570; June 21; v. 287; p. 537.

Taylor, Floyd T., Matawan, assignor to A. P. Munning & Co., Newark, N. J. Conveying mechanism. No. 1,382,144; June 21; v. 287; p. 456.

Taylor, George G., assignor to American Writing Paper Company, Holyoke, Mass. Bleaching vegetable fibers. No. 1,381,440; June 14; v. 287; p. 264.

Taylor, John W. (See Clay, W. L., and Taylor.)

Taylor, Ritchie O., assignor of one-half to J. Heinze, Detroit, Mich. Window for vehicle-curtains. No. 1,380,606; June 7; v. 287; p. 53.

Teegarden, Chester H., Washington, D. C. Rheostat. No. 1,381,093; June 7; v. 287; p. 148.

Teeter, Harold V., Kalamazoo, Mich. Tire-carrier. No. 1,381,366; June 14; v. 287; p. 250.

Tefft, Frederick A., Toledo, Ohio. Electric connector. No. 1,382,753; June 28; v. 287; p. 626.

Tench, Samuel V., Wilkes-Barre, Pa. Chain. No. 1,381,519; June 14; v. 287; p. 278.

Terhune, Howard, Cleveland, Ohio. Steam-hammer guide. No. 1,382,571; June 21; v. 287; p. 537.

Terranova, Vincent, San Francisco, Calif. Folding bed. No. 1,380,749; June 7; v. 287; p. 81.

Tesch, Alexander O., Chicago, Ill. Diving-chamber for submarine operations. No. 1,380,750; June 7; v. 287; p. 81.

Testu, Théodule. (See Fournier, E., and Testu.)

Tetirick, Teddy L., and Philip J. Mueller, Joplin, Mo. Shoe-fastener. No. 1,381,764; June 14; v. 287; p. 326.

Textile Machine Works. (See Zwicky, Melchior, assignor.)

Theofilos, Nicholas, Chicago, Ill. Electric toy. No. 1,382,691; June 28; v. 287; p. 614.

Thermo Carbureter Co. (See Walte, Harry C., assignor.)

Thiele, Ludwig A., Columbus, Ohio. Cascade-pan. No. 1,380,689; June 7; v. 287; p. 69.

Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,381,599; June 14; v. 287; p. 293.

Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,381,600; June 14; v. 287; p. 294.

Thomas, Edward G., Springfield, Ill. Synchrorotor. No. 1,381,367; June 14; v. 287; p. 250.

Thomas, Frank G., Astoria, Oreg. Transmission-gearing. No. 1,382,572; June 21; v. 287; p. 538.

Thomas, George J., Lansing, Mich. Driving-gearing. No. 1,381,945; June 21; v. 287; p. 420.

Thomas, Herbert, Chicago, Ill., assignor to Eclipse Manufacturing Company, Indianapolis, Ind. Spark-plug. No. 1,381,252; June 14; v. 287; p. 229.

Thomas, Ivor D., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Two-wheel swiveling and equalizing crane-truck. No. 1,380,607; June 7; v. 287; p. 54.

Thomas, James, Pittsburg, Kans., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Computing device. No. 1,382,331; June 21; v. 287; p. 491.

Thomas Manufacturing Company, The. (See Felton, Charles H., assignor.)

Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,381,946; June 21; v. 287; p. 420.

Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic speed-control device. No. 1,381,947; June 21; v. 287; p. 420.

Thomasson, Hiram S., Minneapolis, Minn. Kerosene-carbureter. No. 1,381,253; June 14; v. 287; p. 229.

Thompson, Alvah P., Salem, and W. L. Baxter, Beverly; said Thompson assignor of his right to Helburn Thompson Company, Salem, Mass. Clip. No. 1,381,029; June 7; v. 287; p. 136.

Thompson, Augustus F., Huntington, W. Va. Gas-burner. No. 1,381,030; June 7; v. 287; p. 136.

Thompson, Emery, New Rochelle, N. Y. Ice-cream freezer. No. 1,381,442; June 14; v. 287; p. 264.

Thompson, Fred. (See Mackintosh, A., and Thompson.)

Thompson, George W., Cheboygan, Mich. Valve. No. 1,381,765; June 14; v. 287; p. 326.

Thompson, James, Greeley, Colo. Dumping-wagon. No. 1,381,031; June 7; v. 287; p. 136.

Thompson, Joseph S., Mill Valley, Calif. Electric-circuit-breaking switch. No. 1,380,438; June 7; v. 287; p. 21.

Thompson, Orville C., Rochester, N. Y. Garment-supporting belt. No. 1,380,608; June 7; v. 287; p. 54.

Thompson, Paul E., Worland, Wyo. Canvas dam. No. 1,380,439; June 7; v. 287; p. 22.

Thompson, Roy E., New York, N. Y. Radio-communication transmitter. No. 1,380,872; June 7; v. 287; p. 105.

Thompson, William W., Chicago, Ill. Switching device. No. 1,382,029; June 21; v. 287; p. 435.

Thomson, Alexander, and V. B. Daniels, Sour Lake, Tex. Seal for well-screens and means for setting same. No. 1,382,256; June 21; v. 287; p. 477.

Thomson, Arthur. (See Alley, S. E., and Thomson.)

Thomson Electric Welding Company. (See Gravell, James H., assignor.)

Thorens, Hermann, Ste. Croix, Switzerland. Automatic brake for talking-machines. No. 1,381,032; June 7; v. 287; p. 136.

Thornton, John H., Nashville, Tenn. Miter-box. No. 1,381,033; June 7; v. 287; p. 137.

Thorp, Edward J., assignor to A. G. Spalding & Bros., New York, N. Y. Supporter and protector. No. 1,381,254; June 14; v. 287; p. 229.

Thorpe, Walter W., Pelham, assignor to Electric Phonograph Corporation, New York, N. Y. Phonograph. No. 1,382,692; June 28; v. 287; p. 615.

Throop, Gerald W., and J. W. Dundon, Erie, Pa. Paper receptacle. No. 1,383,173; June 28; v. 287; p. 706.

Thun, Hermann, Essen-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Stamp-delivery machine. No. 1,382,573; June 21; v. 287; p. 538.

Tileston, George H., Kansas City, Mo. Eye-shade. No. 1,382,693; June 28; v. 287; p. 615.

Tingley, Philo B., New York, N. Y. Micrometer line-spacing adjustment for writing-macnines. No. 1,381,143; June 14; v. 287; p. 210.

Tisch, George C. L., assignor to Tisch Machine Tool and Die Works, Elizabeth, N. J. Jacquard mechanism. No. 1,381,034; June 7; v. 287; p. 137.

Tisch Machine Tool and Die Works. (See Tisch, George C. L., assignor.)

Tisman, Abraham, New York, N. Y. Spring. No. 1,381,255; June 14; v. 287; p. 230.

Titeflex Metal Hose Corporation. (See Brinkman, L. H., Fulton, and Shellmer, assignors.)

Title Insurance and Trust Company. (See Hanson, Earl C., assignor.)

Tobler, Henri, Hackensack, N. J. Separating halogen from natural brines. No. 1,380,851; June 7; v. 287; p. 101.

Tobler, Henri, Hackensack, assignor to American Bromine Company, Maywood, N. J. Electrolytic apparatus. No. 1,380,852; June 7; v. 287; p. 101.

Tobler, Henri, Hackensack, assignor to American Bromine Company, Maywood, N. J. Electrolytic apparatus. No. 1,380,853; June 7; v. 287; p. 101.

Todd Shipyards Corporation. (See Erickson, Daniel E., assignor.)

Tomb, Grant H., assignor of one-half to Jacob G. Tomb, Slate Run, Pa. Railway-tie. No. 1,381,441; June 14; v. 287; p. 264.

Tomb, Jacob G. (See Tomb, Grant H., assignor.)

Tomchin, Louis, Brooklyn, N. Y. Watch. No. 1,382,256; June 21; v. 287; p. 477.

Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Automatic car and electric coupling and reversing-switch. No. 1,381,852; June 14; v. 287; p. 342.

Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)

Tomlinson, Daniel W., Jr. (See Adsit, William H., assignor.)

Tomlinson, Herbert O., Wheaton, Ill. Semi-indirect-lighting device. No. 1,382,145; June 21; v. 287; p. 456.

Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical relay. No. 1,380,752; June 7; v. 287; p. 81.

Toomey, John F., assignor to American Telephone and Telegraph Company, New York, N. Y. Busy back circuits. No. 1,381,368; June 14; v. 287; p. 250.

Toomey, John F., New York, N. Y., assignor to American Telephone & Telegraph Company. Telephone-call-wire circuits. No. 1,383,038; June 28; v. 287; p. 680.

Toomey, John F., New York, and C. F. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Repeater-network-selecting apparatus. No. 1,380,751; June 7; v. 287; p. 81.

Tonkin, Edwin C., Stockwell, London, and H. T. Collins, Hampstead, London, England. Tap for controlling the supply of fluids. No. 1,381,766; June 14; v. 287; p. 326.

Tönnessen, Martin A., Bergen, Norway. Instrument for measuring angles. No. 1,381,520; June 14; v. 287; p. 278.

Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Spacing mechanism. No. 1,381,256; June 14; v. 287; p. 230.

Torrence, Charles A., Regina, Saskatchewan, Canada. Vacuum grain-cleaner. No. 1,381,601; June 14; v. 287; p. 294.

Torrence, Charles A., Winnipeg, Manitoba, Canada. Grain-cleaner. No. 1,383,260; June 28; v. 287; p. 722.

Torrington Company, The. (See Dayton, William H., assignor.)

Tortorice, Antonio, Lutcher, La. Coffee-cooking device. No. 1,382,574; June 21; v. 287; p. 538.

Tosso, Manuel P., Jr., New Orleans, La. Baseball game-board. No. 1,380,440; June 7; v. 287; p. 22.

Tousey, Sinclair, Westhampton Beach, N. Y. Cell-diaphragm for X-ray apparatus. No. 1,381,521; June 14; v. 287; p. 279.

Towar, George S., Detroit, Mich. Dynamometer. No. 1,382,694; June 28; v. 287; p. 615.

Townsend, Abraham L., Iola, Kans. Animal-trap. No. 1,382,030; June 21; v. 287; p. 435.

Townsend, Floyd E., Berkeley, assignor of one-half to E. G. Palmer, San Francisco, Calif. Endless bucket elevator. No. 1,383,248; June 28; v. 287; p. 720.

Tozer, Archibald B., Erie, Pa., assignor, by mesne assignments, to Reed Manufacturing Company. Nailing-machine. No. 1,380,690; June 7; v. 287; p. 69.

Tracy, Hayden H., San Francisco, Calif. Steam-separator. No. 1,381,767; June 14; v. 287; p. 326.

Trainor, William P., Bristol, Va. Stove-top. No. 1,381,369; June 14; v. 287; p. 251.

Tramer, Arnold H., Elizabeth, N. J., assignor of one-half to J. Baur, New York, N. Y. Separable fastener. No. 1,381,257; June 14; v. 287; p. 230.

Traut & Hine Mfg. Co. (See Wardner, Oel E., assignor.)

Trautman, Ira, New York, N. Y. Automobile-tire. No. 1,381,602; June 14; v. 287; p. 294.

Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,382,872; June 28; v. 287; p. 649.

Trojan Powder Company. (See Snelling, Walter O., assignor.)

Trouilhet, Leo, and G. Duveau, Lyon, France. Electric stove. No. 1,380,753; June 7; v. 287; p. 81.

Troy Carriage Sun Shade Company, The. (See Dillingham, Frederick A., assignor.)

Troy Laundry Machinery Co. (See Balzer, Fritz, assignor.)

Troy Laundry Machinery Co. (See Grey, William S., assignor.)

Truitt, James B. (See Hall, G. U., and Truitt.)

Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company. Turnstile. No. 1,382,575; June 21; v. 287; p. 538.

Truman, Alton A., Howard, S. D. Harrow. No. 1,380,441; June 7; v. 287; p. 22.

Trumble, John T., assignor of one-half to W. L. Mack, Detroit, Mich. Fuel-supplying means for motor-vehicles. No. 1,380,442; June 7; v. 287; p. 22.

Trumbull Electric Mfg. Co., The. (See Leppert, Henry E., assignor.)

Tubbs, Watson E., Milwaukee, Wis. Antiskidding device. No. 1,383,261; June 28; v. 287; p. 723.

Tully, Hugh. (See Schmid, Gerald, and J. Brichacek, and Tully.)

Tumarello, Gabriella, Beuld, Ill. Coffee-pot. No. 1,381,678; June 14; v. 287; p. 309.

Tuohy, James D., Oak Park, Ill. Portable sectional conveyer. No. 1,380,691; June 7; v. 287; p. 69.

Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Variable-speed constant-voltage generator. No. 1,382,257; June 21; v. 287; p. 477.

Turgeon, Edward, Minneapolis, Minn. Wire-coiling machine. No. 1,382,258; June 21; v. 287; p. 477.

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine control. No. 1,381,769; June 14; v. 287; p. 327.

Turner, John C., Dayton, Ohio. Toy. No. 1,382,812; June 28; v. 287; p. 637.

Turner, Russell J., assignor of one-half to C. T. Gaither, Youngstown, Ohio. Disk vehicle-wheel. No. 1,380,873; June 7; v. 287; p. 105.

Tusis, Soter B., Chicago, Ill. Arch-support for the foot. No. 1,380,504; June 7; v. 287; p. 34.

Tyner, Richard H., Cincinnati, Ohio. Portable laundry-segregating bin. No. 1,381,896; June 14; v. 287; p. 351.

U. S. Light & Heat Corporation. (See Bauer, Ernest, assignor.)

U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)

U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)

Udy, Marvin J., and F. C. Nicholson, assignors to The Udylite Process Company, Kokomo, Ind. Rust-proof piano-wire. No. 1,383,174; June 28; v. 287; p. 706.

Udy, Marvin J., and F. C. Nicholson, assignors to The Udylite Process Company, Kokomo, Ind. Spring. No. 1,383,175; June 28; v. 287; p. 706.

Udy, Marvin J., and F. C. Nicholson, assignors to The Udylite Process Company, Kokomo, Ind. Edged tool. No. 1,383,176; June 28; v. 287; p. 706.

Udylite Process Company, The. (See Udy, M. J., and Nicholson, assignors.)

Uhde, Fritz, Breslau, Germany. Device for recooling the water in cooling-towers. No. 1,383,039; June 28; v. 287; p. 681.

Uhl, Clyde, Bartlesville, Okla. Hoisting-machine. No. 1,382,576; June 21; v. 287; p. 538.

Uhlhorn, Otto O., Lisbon, N. D. Cultivator. No. 1,380,505; June 7; v. 287; p. 34.

Ulrich, Edgar V., Colorado Springs, Colo. Tractor. No. 1,380,609; June 7; v. 287; p. 54.

Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)

Underwood Typewriter Company. (See Sheehy, Jeremiah J., assignor.)

Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)

Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)

Underwood Typewriter Company. (See Waldheim, John, assignor.)

Union Machinery Company. (See Streick, Frank, assignor.)

Union Specialty Machine Company. (See Berger, Joseph, Jr., assignor.)

Union Steel Products Company, The. (See Hatch, Charles T., Jr., assignor.)

Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)

Union Switch & Signal Company, The. (See Willard, Paul F., assignor.)

United Filters Corporation. (See Sweetland, Ernest J., assignor.)

United Machinery Company, The. (See Leister, William H., assignor.)

United Shoe Machinery Corporation. (See Baxter, William C., assignor.)

United Shoe Machinery Corporation. (See Bouchard, Urbain J., assignor.)

United Shoe Machinery Corporation. (See Bunker, D. W., and Bradford, assignors.)

United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)

United Shoe Machinery Corporation. (See Conner, Charles E., assignor.)

United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)

United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)

United Shoe Machinery Corporation. (See Ferguson, George, assignor.)

United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)

United Shoe Machinery Corporation. (See Furguson, George, assignor.)

United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)

United Shoe Machinery Corporation. (See Greenough, Henry B., assignor.)

United Shoe Machinery Corporation. (See Hadaway, John B., assignor.

United Shoe Machinery Corporation. (See Heys, John J., assignor.)

United Shoe Machinery Corporation. (See Knowles, Lloyd G., assignor.)

United Shoe Machinery Corporation. (See Lane, Elmer E., assignor.)

United Shoe Machinery Corporation. (See Littlefield, Augustine F., assignor.)

United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)

United Shoe Machinery Corporation. (See Megathlin, Ralph S., assignor.)

United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)

United Shoe Machinery Corporation. (See Stewart, William C., assignor.)

United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)

United Shoe Machinery Corporation. (See Winter, Henry W., assignor.)

United States Automatic Fire Alarm Company, The. (See Nissen, Peter L., assignor.)

United States Envelope Company. (See Furman, Samuel, assignor.)

United States Gypsum Company. (See Birdsey, Charles R., assignor.)

United States Gypsum Company. (See Utzman, Clarence W., assignor.)

United States Wire Mat Company. (See Cash, Arthur W., assignor.)

Universal Stamping Machine Company. (See Ogden, Jacob W., assignor.)

Universal Winding Company. (See Brink, Carl A., assignor.)

Updegrave, William M., and A. S. Ryesky, Johnstown, Pa. Spectacle-frame. No. 1,381,603; June 14; v. 287; p. 294.

Urban, Arthur, Sheboygan Falls, Wis. Spindle file. No.

Utzman, Clarence W., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plasterboard. No. 1,383,249; June 28; v. 287; p. 270.

Vacuum Machinery Co. (See McCarthy, Edward F., assignor.)

Vale, Ruby R., Milford, Del. Vehicle wheel. No. 1,382,023; June 21; v. 287; p. 436.

Vale, Ruby R., Milford, Del. Automobile-wheel. No. 1,382,031; June 21; v. 287; p. 436.

Valent, Johan, West Hoboken, N. J. Gear-shifting device. No. 1,380,874; June 7; v. 287; p. 106.

Vallely, Cornelius P., Bradford, Pa. Burner for gas and oil. No. 1,381,144; June 14; v. 287; p. 210.

Van Atten, Lewis, Ossining, N. Y. Electrical connector. No. 1,383,040; June 28; v. 287; p. 681.

Van Bogaert, John P., Brussels, Belgium. Integraph and differentiator. No. 1,380,754; June 7; v. 287; p. 82.

Van den Broeck, William, London, England. Cinematograph and safety device therefor. No. 1,380,756; June 7; v. 287; p. 82.

Van Buren, Chester G., Chicago, Ill. Loose-leaf binder. No. 1,380,755; June 7; v. 287; p. 82.

Van Deusen, Annie P., administratrix. (See Van Deusen, MacArthur.)

Van Deusen, MacArthur, deceased, Midland Park, N. J.; A. P. Van Deusen, administratrix. Lacing-eyelet. No. 1,381,949; June 21; v. 287; p. 421.

Van Deusen, MacArthur, deceased, Midland Park, N. J.; A. P. Van Deusen, administratrix. Tie attachment for shoes. No. 1,381,950; June 21; v. 287; p. 421.

Van Dorn, Herbert E., Chicago, Ill. Draft-gear. No. 1,380,443; June 7; v. 287; p. 23.

Van Dorn Iron Works Company, The. (See Barker, Percy E., assignor.)

Van Hoose, Lucy R., Rome, Ga. Wheeled motorcycle attachment. No. 1,382,942; June 28; v. 287; p. 662.

Van Sant, William S., assignor of one-third to E. N. McCutcheon and one-third to E. M. Hiatt, Oakland, Calif. Ice-scraper. No. 1,380,757; June 7; v. 287; p. 82.

Van Senus, Francis, Moline, Ill. Match-box holder. No. 1,381,522; June 14; v. 287; p. 279.

Van Sickle, Orson R., Toledo, Ohio. Rail tie and clamp. No. 1,381,145; June 14; v. 287; p. 210.

Van Vleet, Charles W., assignor of one-third to R. C. Riddick, Kingston, and one-third to C. A. Maxwell, Saugerties, N. Y. Game apparatus. No. 1,382,695; June 28; v. 287; p. 613.

Van Vleet, Charles W., assignor of one-third to R. C. Riddick, Kingston, and one-third to C. A. Maxwell, Saugerties, N. Y. Projectile-throwing device for game apparatus. No. 1,382,696; June 28; v. 287; p. 615.

Vandercook, Robert O., Evanston, Ill. Ink-distributing attachment for platen printing-presses. No. 1,381,648; June 21; v. 287; p. 420.

Vandergrift Box Company. (See Penner, J. F., and Lansberry, assignors.)

Vanderpool, William, Springfield, Ohio. Clamp for vulcanizing-molds. No. 1,380,854; June 7; v. 287; p. 102.

Vanorio, Joseph. (See Rapp, J. W., and Vanorio.)

Vapor Car Heating Company. (See Russell, E. A., and Schreiber, assignors.)

Vargas, Ramón O., Torrelavega, Spain. Wheel for motor-vehicles and the like. No. 1,382,943; June 28; v. 287; p. 662.

Varner, Joseph W. (See Wagoner, W. M., and Varner.)

Vaucl.ain, Andrew C. (See Vauclain, Jacques L. and A. C.)

Vauclain, Jacques L., Haverford, and A. C. Vauclain, Philadelphia, Pa. Fastener for wheel-hub caps. No. 1,382,577; June 21; v. 287; p. 539.

Velazquez, José, Cárdenas, Cuba. Burner for petroleum or similar fuels. No. 1,381,370; June 14; v. 287; p. 251.

Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,380,444; June 7; v. 287; p. 23.

Venn, Henry L., Oak Park, Ill. Die and head therefor. No. 1,383,177; June 28; v. 287; p. 706.

Verdy, Louis F., Pleasantville, Ind. Mining-drill device. No. 1,383,041; June 28; v. 287; p. 681.

Vericel, Antoine, assignor to Vericel, Inc., New York, N. Y. Vanity-box. No. 1,381,036; June 7; v. 287; p. 137.

Vericel, Inc. (See Vericel, Antoine, assignor.)

Verran, H. E., Company. (See Verran, H. E., and Clauss, assignors.)

Verran, Harry E., and M. O. Clauss, New York, N. Y., assignors to H. E. Verran Company. Binding device for skeining-machines. No. 1,381,679; June 14; v. 287; p. 309.

Vest, Charles O., Bluefield, W. Va. Journal jack-block and wheel-clamp. No. 1,382,332; June 21; v. 287; p. 491.

Vibber, Wheeler, H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Terminal ground-clamp. No. 1,381,770; June 14; v. 287; p. 327.

Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)

Vick, Albert F. W., Company. (See Nicholas, Joseph J., assignor.)

Vickers Limited. (See Dawson, Arthur T., and Buckham, assignors.)

Vincent, Harry H. and J. F., Detroit, Mich. Magazine fuse-plug. No. 1,383,042; June 28; v. 287; p. 681.

Vis, Gerhard N. (See Bontemps, A., and Vis.)

Viscose Company, The, *et al.* (See Crewdson, Henry, assignor.)

Visintainer, Felix, Glazier, assignor of one-fourth to W. Lemm, Bellingham, Wash. Treating iron and steel. No. 1,381,771; June 14; v. 287; p. 327.

Vitek, Charles, Omaha, Nebr. Clamp. No. 1,382,813; June 28; v. 287; p. 638.

Vlasak, Charles J., St. Louis, Mo. Fuel-igniter. No. 1,381,951; June 21; v. 287; p. 421.

Vogel, William, New York, N. Y. Can-opener. No. 1,381,037; June 7; v. 287; p. 137.

Voges, William E., St. Louis, Mo. Tractor lawn-cutter. No. 1,383,178; June 28; v. 287; p. 707.

Voght, John P., S., Denver, Colo. Finger-print identification-card and producing same. No. 1,380,506; June 7; v. 287; p. 35.

Vogt, Axel S. (See Zell, J. J., and Vogt.)
Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Spring suspension. No. 1,381,523; June 14; v. 287; p. 279.
Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Shock-absorber. No. 1,381,524; June 14; v. 287; p. 279.
Von Woehrmann, C. (See Munger, Frederick, assignor.)
Voress, Clyde L. (See Burrell, G. A., Voress, and Canter.)
Vos, Calvin, New York, N. Y. Alloy. No. 1,382,146; June 21; v. 287; p. 456.
Vos, Calvin, New York, N. Y. Alloy. No. 1,382,147; June 21; v. 287; p. 456.
Voss, Otto, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Method of and machine for applying a coating to cans. No. 1,380,610; June 7; v. 287; p. 54.
Vulcan Mfg. Co. (See Coy, Herbert C., assignor.)
Wagner, Clinton De W., Cedar Rapids, Iowa. Engine-radiator. No. 1,381,604; June 14; v. 287; p. 294.
Wagner, Edward A., Fort Wayne, Ind., assignor to General Electric Company. Stationary induction apparatus. No. 1,382,873; June 28; v. 287; p. 649.
Wagner, Henry J., assignor of one-half to P. F. McGinn, Boston, Mass. Headlight-lens. No. 1,383,250; June 28; v. 287; p. 721.
Wagner, James A., San Francisco, Calif. Sack-cleaning machine. No. 1,382,944; June 28; v. 287; p. 662.
Wagoner, Warren M., and J. W. Varner, Piedmont, W. Va. Phonograph-record cabinet. No. 1,381,525; June 14; v. 287; p. 280.
Waite, Harry C., Elgin, assignor to Thermo Carburetor Co., Chicago, Ill. Carbureter. No. 1,381,680; June 14; v. 287; p. 309.
Waite, Harry C., Elgin, assignor to Thermo Carburetor Co., Chicago, Ill. Carbureter. No. 1,381,681; June 14; v. 287; p. 309.
Wakefield, Flake M., Anniston, Ala. Electrical connector. No. 1,381,772; June 14; v. 287; p. 37.
Wakeham, Walter L. (See Flenberg, N., and Wakeham.)
Walden Worcester, Inc. (See Barnes, William, assignor.)
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,380,692; June 7; v. 287; p. 70.
Waldo, Verona V. (See Sinurr, Samuel P., assignor.)
Walker, Frank E. (See Spencer, A. B., and Walker.)
Walker, Gaines M., St. Louis, Mo. Shipping-box. No. 1,381,258; June 14; v. 287; p. 230.
Walker, Joseph, assignor to Angsten-Kox Company, Chicago, Ill. Lamp. No. 1,382,259; June 21; v. 287; p. 478.
Walker, Robert, Toronto, Ontario, Canada. Level. No. 1,380,611; June 7; v. 287; p. 54.
Walker, Selah E., Portland, Oreg. Continuous cooker for foods in containers. No. 1,382,148; June 21; v. 287; p. 456.
Walker, Selah E., Portland, Oreg. Lacquering-machine. No. 1,382,149; June 21; v. 287; p. 456.
Walker, Thomas E., assignor to Crittall Casement Window Co., Detroit, Mich. Frame and sash construction. No. 1,382,578; June 21; v. 287; p. 539.
Walker, U. G. (See Green, Arch B., assignor.)
Walker, William E., Denver, Colo. Card-raising attachment for filing-drawers. No. 1,380,612; June 7; v. 287; p. 54.
Wall, Michael J., Troy, N. Y. Concrete-reinforcement. No. 1,380,613; June 7; v. 287; p. 55.
Wallace, Clyde K., assignor of one-half to S. H. Chambers, Oakland, Calif. Oil-burner. No. 1,380,507; June 7; v. 287; p. 35.
Wallace, Georgina J., Kensington, London, England, Pessary. No. 1,382,033; June 21; v. 287; p. 436.
Walldow, Carl, near San Jose, Calif. Sack-holder. No. 1,382,150; June 21; v. 287; p. 457.
Wallenthin, Walfrid, Attleboro, Mass., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Bracelet. No. 1,382,034; June 21; v. 287; p. 436.
Waller, Francis M., Stafford, England. Mechanically-propelled plow. No. 1,383,251; June 28; v. 287; p. 721.
Wallerstein, Milton H., Paducah, Ky. Display-rack. No. 1,380,855; June 7; v. 287; p. 102.
Wallerstein, Milton H., Paducah, Ky. Display-rack. No. 1,380,856; June 7; v. 287; p. 102.
Walrus Manufacturing Company. (See Gray, Leonard G., assignor.)
Walshe, Laurence J., Saskatoon, Saskatchewan, Canada. License-number plate and tail-light. No. 1,381,038; June 7; v. 287; p. 137.
Walter, Hugo J. (See Lundgren, Carl J., assignor.)
Walter, John. (See Leicht, Louis, assignor.)
Walters, Charles W., Detroit, Mich. Push-button-operating device for automobile steering-wheels. No. 1,381,259; June 14; v. 287; p. 230.
Walther, George, Dayton, Ohio. Cast-metal wheel. (Reissue.) No. 15,122; June 7; v. 287; p. 149.
Wandel, Kurt, New York, N. Y., assignor to Safepack Mills, Boston, Mass. Reinforced tube and bag making machine. No. 1,382,579; June 21; v. 287; p. 539.
Wandersee, Otto H., Rochester, N. Y. Reproducer for talking-machines. No. 1,380,445; June 7; v. 287; p. 23.
Wanklyn, Frederic L., Montreal, Quebec, Canada. Railway signal-fusee. No. 1,381,371; June 14; v. 287; p. 251.
Wanous, Edwin F., Minneapolis, Minn. Door-catch. No. 1,381,372; June 14; v. 287; p. 251.
Ward, Alexander L., New York, N. Y. Locking device for collapsible containers. No. 1,380,875; June 7; v. 287; p. 106.
Warden, William S., assignor to Baker, Murray & Imbrie, Inc., New York, N. Y. Artificial fish-bait. No. 1,380,876; June 7; v. 287; p. 106.
Wardner, Oel E., assignor to Traut & Hine Mfg. Co., New Britain, Conn. Belt-buckle. No. 1,381,140; June 14; v. 287; p. 210.
Warner, Joseph H., Nhill, Victoria, Australia. Draft attachment for stump-jump plows and the like. No. 1,381,039; June 7; v. 287; p. 138.
Warner, Joseph H., Nhill, Victoria, Australia. Stump-jump plow and the like. No. 1,381,040; June 7; v. 287; p. 138.
Warner, Joseph H., Nhill, Victoria, Australia. Shock-absorbing device for stump-jump plows and the like. No. 1,381,041; June 7; v. 287; p. 138.
Warner, Lawrence E. (See Mooers, B. M., and Warner.)
Warnock, Wallace S., Chicago, Ill. Printing-plate holder. No. 1,382,151; June 21; v. 287; p. 457.
Warnock, Wallace S., Chicago, Ill. Printing-plate holder. No. 1,382,152; June 21; v. 287; p. 457.
Warren, Lillian G., Westwood, Calif. Garter. No. 1,382,446; June 21; v. 287; p. 514.
Warshaw, Nathan, New York, N. Y. Easel. No. 1,380,614; June 7; v. 287; p. 55.
Waterbury Clock Co. (See Lathrop, Harold L., assignor.)
Waterbury Farrel Foundry and Machine Company. (See Pierson, William D., assignor.)
Waterhouse, Harold D., Quincy, Mass., assignor, by mesne assignments, to W. S. Crane, J. Crane, and F. V. Stone, trustees. Ignition apparatus. No. 1,381,773; June 14; v. 287; p. 327.
Waterloo Gasoline Engine Company. (See Witry, Louis W., assignor.)
Waterman, Abraham, assignor of one-half to David Waterman, Chicago, Ill. Ventilated garments. No. 1,381,373; June 14; v. 287; p. 251.
Waterman, David. (See Waterman, Abraham, assignor.)
Waterman, L. E., Company. (See Aston, Archer, assignor.)
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Wheel-adjusting mechanism for agricultural implements. No. 1,381,374; June 14; v. 287; p. 252.
Waters, John F., Chicago, Ill. Food product. No. 1,381,526; June 14; v. 287; p. 280.
Watervliet Tool Company. (See Spade, William P., assignor.)
Watrous, Earl G., Chicago, Ill. Flushing-valve. No. 1,382,814; June 28; v. 287; p. 638.
Watson, Frank A., Springfield, Ohio. Collapsible-tire core. No. 1,382,035; June 21; v. 287; p. 436.
Watson, Ralph O., Jersey City, N. J. Piston-pin lock. No. 1,381,260; June 14; v. 287; p. 230.
Watson, Walter C. (See Hakes, Hudson W., assignor.)
Watts, Alfred E. (See Merritt, F. W., and Watts.)
Waugh, James M., Chicago, Ill. Transmission-gear. No. 1,382,697; June 28; v. 287; p. 616.
Waugh, James M., Chicago, Ill. Resilient transmission-gear. No. 1,382,698; June 28; v. 287; p. 616.
Wayne Oil Tank & Pump Company. (See Baker, Linnaeus E., assignor.)
Weaver, Elverton W., Cleveland Heights, Ohio. Resilient bumper-bar. No. 1,380,615; June 7; v. 287; p. 55.
Wearham, Gordon A., London, England. Coupling means for releasably suspending a mass. No. 1,383,252; June 28; v. 287; p. 721.
Weaver, Bertha H., Texarkana, Tex. Combination furnace and cook-stove. No. 1,383,043; June 28; v. 287; p. 682.
Weaver, Elverton W., Cleveland Heights, Ohio. Bumper-bar. No. 1,380,616; June 7; v. 287; p. 55.
Weaver, John W., Raleigh, N. C. Press bed-movement. No. 1,380,446; June 7; v. 287; p. 23.
Weaver, Thomas J., Denver, Colo. Auto-towing device. No. 1,381,042; June 7; v. 287; p. 138.
Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Bag-sewing machine. No. 1,380,758; June 7; v. 287; p. 82.
Webb, John L., assignor to Webb Pump Company, Salt Lake City, Utah. Rotary pump. No. 1,382,580; June 21; v. 287; p. 539.
Webb Pump Company. (See Webb, John L., assignor.)
Webber, William A. (See Beavers, E., and Webber.)
Weber, Harry M. (See Ellis, C., and Weber.)
Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Universal work-support for stitching-machines. No. 1,382,636; June 21; v. 287; p. 437.
Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing-scale. No. 1,382,690; June 28; v. 287; p. 616.
Webster, Charles E. (See Susnich, Eugene W., assignor.)
Webster, Willard M., and G. D. Wernll, Los Angeles, Calif. Folding box-table. No. 1,381,682; June 14; v. 287; p. 310.
Wegmann, Theodore H., *et al.* (See Raloff, Adolph, Jr., assignor.)
Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-cage for roller-bearings with convex rollers. No. 1,382,333; June 21; v. 287; p. 492.

Weidman, A. P., *et al.* (See Hall, G. U., and Truitt, assignors.)
Weigand, Herman. (See Smith, C. M., and Weigand.)
Weiland, Alfred, Philadelphia, Pa. Carbureter for internal-combustion engines. No. 1,383,044; June 28; v. 287; p. 682.
Weimar, Albert C., Grove City, Pa. Extracting soluble albumen from whey. No. 1,381,605; June 14; v. 287; p. 294.
Weinbeer, Gregor, Nuremberg, Germany. Nail-extractor. No. 1,381,683; June 14; v. 287; p. 310.
Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Umbrella-cover. No. 1,381,043; June 7; v. 287; p. 138.
Weiner, Samuel E., Atlantic City, N. J. Syringe. No. 1,381,774; June 14; v. 287; p. 327.
Weir, George F., Elkhart, Ind. Engine-crosshead. No. 1,381,375; June 14; v. 287; p. 252.
Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Short-circuiting device. No. 1,381,044; June 7; v. 287; p. 139.
Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for recovering soluble constituents from furnace-fumes. No. 1,382,037; June 21; v. 287; p. 437.
Welch, Horace H., Chicago, Ill. Electric recorder. No. 1,381,684; June 14; v. 287; p. 310.
Weldman-Seaver-Morgan Company, The. (See McClimon, J. S., and Wetherill, Jr., assignors.)
Wellington, Edward, Port Coquitlam, British Columbia, Canada. Hair-brush. No. 1,381,147; June 14; v. 287; p. 210.
Welliver, Percy, Hereford, Tex. Automobile-theft-preventing device. No. 1,380,617; June 7; v. 287; p. 55.
Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
Wells, Daniel D., Burkburnett, Tex. Boring and threading tool. No. 1,382,447; June 21; v. 287; p. 514.
Wells, Winfield A., Spencer, N. Y. Animal-trap. No. 1,382,153; June 21; v. 287; p. 457.
Welsh, Richard E., New Bedford, Mass. Lug-strap support. No. 1,382,581; June 21; v. 287; p. 540.
Wendelken, Charles, Robstown, Tex. Check-writer. No. 1,382,874; June 28; v. 287; p. 649.
Wereshuk, Onufre, New Castle, Pa. Curtain and shade bracket. No. 1,381,606; June 14; v. 287; p. 295.
Wernll, George D. (See Webster, W. M., and Wernll.)
Wescott, William B., Wellesley, assignor, by mesne assignments, to Protein Products Corporation, Boston, Mass. Trocar. No. 1,380,447; June 7; v. 287; p. 23.
West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. Hair-curler. No. 1,381,775; June 14; v. 287; p. 328.
West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. Hair-curler. No. 1,381,776; June 14; v. 287; p. 328.
West Michigan Steel Foundry Co. (See Jeannot, William E., assignor.)
Westerbeck, Frederick, St. Louis, Mo. Container. No. 1,381,148; June 14; v. 287; p. 210.
Western Electric Company. (See Allen, Roy M., assignor.)
Western Electric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Butterfield, Joseph T., assignor.)
Western Electric Company (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Coon, Lealie E., assignor.)
Western Electric Company. (See Deakin, Gerald, assignor.)
Western Electric Company. (See Gardner, Fred G., assignor.)
Western Electric Company. (See Harris, Jonathan W., assignor.)
Western Electric Company. (See Horton, Joseph W., assignor.)
Western Electric Company. (See Lundell, Alben E., assignor.)
Western Electric Company. (See MacDougall, Harry W., assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Rainey, Paul M., assignor.)
Western Electric Company. (See Riecken, William E., assignor.)
Western Electric Company. (See Soper, C. P., and Hall, assignors.)
Western Electric Company. (See Stull, John S., assignor.)
Western Electric Company. (See Wilbur, Ray S., assignor.)
Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
Western Vulcanizer Manufacturing Company. (See Maier, Fred, assignor.)
Westfall, David, New York, N. Y. Outboard-condenser. No. 1,380,618; June 7; v. 287; p. 55.
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Baggs, A. E., and Heckman, assignors.)
Westinghouse Electric and Manufacturing Company. (See Candee, A. H., and Johnston, assignors.)
Westinghouse Electric and Manufacturing Company. (See Copley, Almon W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Dean, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fix, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Harvey, A. L., and Huey, assignors.)
Western Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Herr, Edwin M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnston, Howard H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kuyser, Jan A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lammers, Edwin S., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and Christman, assignors.)
Westinghouse Electric and Manufacturing Company. (See Meyer, Friedrich W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pittman, Ernest W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Scanes, Arthur E. L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schairer, O. S., and Coley, assignors.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Stupenhorst, John A., assignor.)
Westinghouse Lamp Company. (See Blackwell, William T., assignor.)
Weston, Edward B., assignor to The Weston Paper & Manufacturing Company, Dayton, Ohio. Display-rack. No. 1,381,607; June 14; v. 287; p. 295.
Weston Paper & Manufacturing Company. (See Weston, Edward B., assignor.)
Wetherill, Robert, Jr. (See McClimon, J. S., and Wetherill, Jr.)
Wetsels, Ch. Henri E. (See Quaglia, G., and Capello, assignors.)
Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Elevator-door. No. 1,381,261; June 14; v. 287; p. 231.
Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Locking mechanism for elevator-doors. No. 1,381,262; June 14; v. 287; p. 231.
Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Locking mechanism for automatic elevator-doors. No. 1,381,263; June 14; v. 287; p. 231.
Whalen, William J., Cleveland, Ohio. Flexible member for belts. No. 1,382,700; June 28; v. 287; p. 616.
Whaley, William B. S., Malden, assignor to American Whaley Engine Co., Boston, Mass. Composite ship. No. 1,380,693; June 7; v. 287; p. 70.
Wheary, George H., Racine, Wis. Reinforced trunk-edge construction. No. 1,381,149; June 14; v. 287; p. 211.
Wheary, George H., Racine, Wis. Removable trunk-pad. No. 1,381,952; June 21; v. 287; p. 421.
Wheary, George H., Racine, Wis. Retainer-bar for trunks. No. 1,382,701; June 28; v. 287; p. 616.
Wheaton, Harold J., near Warrington, assignor to Joseph Crosfield and Sons, Limited, Warrington, England. Base-exchange compound and making the same. No. 1,381,777; June 14; v. 287; p. 328.
Wheeler, C. E., administrator. (See Wheeler, Leon H.)
Wheeler, Leon H., deceased, Ellensburg, Wash., C. E. Wheeler, administrator, assignor of one-third to R. McCoy, New York, N. Y., and one-third to J. F. O'Brien, West New York, N. J. Foot-pump. No. 1,382,603; June 21; v. 287; p. 544.
Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,380,619; June 7; v. 287; p. 56.
Wheildon, William M., Ashland and E. H. Angier, Framingham, Mass.; said Wheildon assignor to said Angier. Wrapping-machine for annular articles. No. 1,380,448; June 7; v. 287; p. 23.
Wheildon, William M. (See Angier, E. H., and Wheildon.)
Whetsel, Walter R., Richmond, Ind. Automatic gravity-ston for phonographs. No. 1,381,685; June 14; v. 287; p. 310.
Whigelt, George, Dongon Hills, N. Y. Device for mixing materials. No. 1,381,686; June 14; v. 287; p. 311.
Whitaker, James K., Jr., St. Louis, Mo. Pneumatic bumper. No. 1,380,759; June 7; v. 287; p. 83.
Whitaker, Joseph P. (See Fielding, John, assignor.)
Whitcomb, Forrest R., West Somerville, Mass. Valve-grinding device. No. 1,380,620; June 7; v. 287; p. 56.
White, Alfred B., *et al.*, administrator. (See Preston, Albert F.)
White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,381,150; June 14; v. 287; p. 211.
White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Fan construction. No. 1,381,687; June 14; v. 287; p. 311.
White, Edward N., *et al.*, trustees. (See Eidmann, Frank L., assignor.)

White, Edward N., *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)
White, Edward N., *et al.*, trustees. (See Hennessy, Daniel E., assignor.)
White, Frank O., Belleville, Ill. Ventilated upholstered furniture. No. 1,382,702; June 28; v. 287; p. 617.
White, Fred E., assignor to Central Oil and Gas Stove Company, Gardner, Mass. Oven. No. 1,381,527; June 14; v. 287; p. 280.
White, Harry B., Canton, Ohio, assignor, by mesne assignments, to Auto Specialties Manufacturing Co., San Francisco, Calif. Bow rest and clamping device. No. 1,381,853; June 14; v. 287; p. 342.
White, Lewis F., Pond, W. Va. Planter. No. 1,382,945; June 28; v. 287; p. 662.
White, Mayme, Indianapolis, Ind. Doll-model. No. 1,381,528; June 14; v. 287; p. 280.
White Motor Company, The. (See Farmer, Frank H., assignor.)
White, Vernon A., Chicago, Ill. Food product and manufacture. No. 1,382,038; June 21; v. 287; p. 437.
White, Wilford L., Boulder, Colo. Game apparatus. No. 1,381,045; June 7; v. 287; p. 139.
Whitehouse, John N., New York, N. Y. Applicator. No. 1,382,397; June 21; v. 287; p. 504.
Whiteman, George W. (See Lundie, J., and Whiteman.)
Whiteside, William J., Keewatin, Minn. Glass-gage protector. No. 1,382,582; June 21; v. 287; p. 540.
Whitmer, George, Brea, Calif. Overshot fishing-tool. No. 1,381,529; June 14; v. 287; p. 280.
Whitmore, Joseph W., and T. J. Whitmore, deceased, by T. B. Whitmore, administrator, Dendron, Va. Portable peanut cleaner and grader. No. 1,380,449; June 7; v. 287; p. 24.
Whitmore, Thomas B., administrator. (See Whitmore, Joseph W. and T. J.)
Whitmore, Thomas J. (See Whitmore, Joseph W. and T. J.)
Whitney, Robert F., Winchester, Mass. Leather-working machine. No. 1,380,760; June 7; v. 287; p. 83.
Whittier, Horace R., assignor to Cooper Oven Thermometer Company, Plymouth, Conn. Oven-thermometer. No. 1,380,621; June 7; v. 287; p. 56.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,381,151; June 14; v. 287; p. 211.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,381,377; June 14; v. 287; p. 252.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-lamp. No. 1,381,376; June 14; v. 287; p. 252.
Wicher, Claude J. (See Meier, G. A., and Wicher.)
Wickersham, Elmer E., Sunnyvale, assignor to The Holt Manufacturing Company, Stockton, Calif. Speed-governor. No. 1,381,778; June 14; v. 287; p. 328.
Wickoff, J. Lewis, *et al.*, trustees. (See Eidmann, Frank L., assignor.)
Wicks, John V., assignor to Marvel Manufacturing Co., Seattle, Wash. Valve-grinding compound. No. 1,381,953; June 21; v. 287; p. 421.
Widmer, Howard G., Brooklyn, assignor to Arkell Safety Bag Company, New York, N. Y. Delivery mechanism for machines for operating on paper. No. 1,382,583; June 21; v. 287; p. 540.
Wiederholdt, Ernest F., St. Louis, Mo. Link chain. No. 1,382,703; June 28; v. 287; p. 617.
Wiener, Joseph, Philadelphia, Pa. Safety-hatpin. No. 1,382,039; June 21; v. 287; p. 437.
Wiggins, George A., Hamilton, Ontario, Canada. Game. No. 1,380,450; June 7; v. 287; p. 24.
Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,380,451; June 7; v. 287; p. 24.
Wilcox, Crittenden and Company. (See Birdsey, Seeley P., assignor.)
Wilcox, Urquhart, Buffalo, N. Y. Kite. No. 1,381,264; June 14; v. 287; p. 231.
Wilde, J. G., *et al.* (See Poole, John H., assignor.)
Wildroudt, Joel A., Akron, Ohio. Mold construction. No. 1,382,398; June 21; v. 287; p. 505.
Wilkins, Frank J., Cincinnati, Ohio. Flexible bound book. No. 1,380,694; June 7; v. 287; p. 70.
Wilkins, George H., Greenfield, Mass. Hacksaw-frame. No. 1,382,448; June 21; v. 287; p. 514.
Wilkins, George W., Glendale, Calif. Vehicle-body. No. 1,381,378; June 14; v. 287; p. 352.
Willard, Paul F., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway switches and signals. No. 1,380,452; June 7; v. 287; p. 24.
Williams, Charles A., Torquay, assignor to Clark Son & Morland, Ltd., Glastonbury, England. Leather-working machine. No. 1,382,584; June 21; v. 287; p. 540.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable support for brake-beams. No. 1,381,379; June 14; v. 287; p. 253.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable third or fourth point support for brake-beams. No. 1,381,380; June 14; v. 287; p. 253.
Williams, Charles O., Vallejo, Calif. Hair-cutting gage. No. 1,381,381; June 14; v. 287; p. 253.
Williams, Joseph S., Riverton, N. J. Resilient tire. No. 1,382,399; June 21; v. 287; p. 505.
Williams, Llewellyn, Hollis, N. Y., assignor to York Manufacturing Company, York, Pa. Fluid-compressor. No. 1,382,334; June 21; v. 287; p. 492.
Williams, Reuben H. (See Wright, Kenneth, assignor.)
Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,380,857; June 7; v. 287; p. 102.
Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,381,530; June 14; v. 287; p. 281.
Williams, Thomas M., Gary, Ind. Dead-end clamp for cables. No. 1,381,779; June 14; v. 287; p. 328.
Williams, Weston F., Falls Church, Va. Boiler. No. 1,383,179; June 28; v. 287; p. 707.
Willson, Andrew E., Grand Rapids, Mich. Picker-stick protector for looms. No. 1,382,754; June 28; v. 287; p. 626.
Willson, Goggles, Inc. (See Soderling, Walter, assignor.)
Willy, John, Chicago, Ill. Record-slip support. No. 1,380,877; June 7; v. 287; p. 106.
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Wilmarth & Morman Company. (See Lightner, Henry W., assignor.)
Wilputte, Alice A. (See Wilputte, Louis, assignor.)
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke quenching and handling apparatus. No. 1,380,453; June 7; v. 287; p. 24.
Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Making cutters for pencileners. No. 1,383,045; June 28; v. 287; p. 682.
Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Making Cutters for pencil-sharpeners. No. 1,383,046; June 28; v. 287; p. 682.
Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Making cutters for pencil-sharpeners. No. 1,383,047; June 28; v. 287; p. 682.
Wilson, Andrew O., *et al.* (See Francisco, Marshall E., assignor.)
Wilson, Clarence C., Corcoran, Calif. Process of and apparatus for pumping liquid and gas. No. 1,380,695; June 7; v. 287; p. 70.
Wilson, George W., Los Angeles, Calif. Valve-lifting tool. No. 1,380,508; June 7; v. 287; p. 35.
Wilson, J. G., Corporation, The. (See Higson, Albert J., assignor.)
Wilson, John H., Baltimore, Md. Heat-storing attachment for stoves. No. 1,382,585; June 21; v. 287; p. 540.
Wilson, John T., Alameda, Calif. Combined piston and packing-ring. No. 1,380,454; June 7; v. 287; p. 25.
Wilson, John W., Indianapolis, Ind. Comb. No. 1,382,586; June 21; v. 287; p. 541.
Wilson, Lyman A., New York, N. Y. Endless-film reel. No. 1,382,040; June 21; v. 287; p. 437.
Wilson, Monroe W., Temple, Okla. Detachable cable-drum for spoked wheels. No. 1,381,152; June 14; v. 287; p. 211.
Wilson, Samuel H., Glasgow, Scotland. Flask-clamp. No. 1,381,854; June 14; v. 287; p. 342.
Wimberley, Mason A., Oxnard, Calif. Rotary-engine. No. 1,381,531; June 14; v. 287; p. 281.
Wimp, Elgy, Chicago, Ill. Motor-car signal. No. 1,381,382; June 14; v. 287; p. 253.
Winchester Repeating Arms Co. (See Kouwenhoven, William B., assignor.)
Winders, G. W. (See Franks, William B., assignor.)
Winegarden, Arey V., Wichita, Kans. Mechanical movement. No. 1,381,046; June 7; v. 287; p. 139.
Winn, Charles A., assignor to Chicago Bearings Company, Chicago, Ill. Antifriction bearing. No. 1,380,622; June 7; v. 287; p. 56.
Winquist, Victor, assignor, by mesne assignments, of two-thirds to Burd High Compression Ring Company, Rockford, Ill. Tire-rim contractor. No. 1,381,383; June 14; v. 287; p. 253.
Winship, Frank W. (See Waterman, Henry D., assignor.)
Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stamping-machine. No. 1,381,153; June 14; v. 287; p. 211.
Wire Wheel Corporation of America. (See Ash, Charles S., assignor.)
Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
Wirebounds Patents Co. (See Hood, Arthur M., assignor.)
Wirt, Asa A., Omaha, Nebr. Tang-mounting for implements. No. 1,382,154; June 21; v. 287; p. 457.
Wirt, Asa A., Omaha, Nebr. Tang-mounting for implements. No. 1,382,155; June 21; v. 287; p. 458.
Wisconsin Electric Company. (See Beach, Chester H., assignor.)
Withycombe, Robert M., Penshurst, near Sydney, New South Wales, Australia. Toothbrush. No. 1,382,587; June 21; v. 287; p. 541.
Witry, Louis W., assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Steering-gear for tractors. No. 1,381,384; June 14; v. 287; p. 253.
Wittmann, Oscar, Lincoln, Nebr. Battery-jar. No. 1,381,608; June 14; v. 287; p. 295.
Woerner, William P., Lancaster, Pa. Detonating toy. No. 1,382,588; June 21; v. 287; p. 541.

Woessner, William, St. Louis, Mo. Connector for batteries. No. 1,381,443; June 14; v. 287; p. 264.
Wojcik, Stefan, assignor of one-half to J. Lewandowski, Detroit, Mich. Cue-tip clamp. No. 1,381,385; June 14; v. 287; p. 254.
Wojcik, Stefan, assignor of one-half to J. Lewandowski, Detroit, Mich. Cue-tip clamp. No. 1,381,386; June 14; v. 287; p. 254.
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Wolf, Benjamin, *et al.* (See Kaufmann, Abraham J., assignor.)
Wolf, Clarence, *et al.* (See Kaufmann, Abraham J., assignor.)
Wolf, Edwin, *et al.* (See Kaufmann, Abraham J., assignor.)
Wolf, Frank, New York, N. Y. Display-cabinet. No. 1,382,704; June 28; v. 287; p. 617.
Wolf, Louis, *et al.* (See Kaufmann, Abraham J., assignor.)
Wolfenden, John W., Nashville, Tenn. Hub-liner. No. 1,383,048; June 28; v. 287; p. 682.
Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,382,335; June 21; v. 287; p. 492.
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Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,132; June 21; v. 287; p. 546.
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Wood, A. J., Grand Rapids, assignor to Bennett Injector Company, Muskegon, Mich. Grease-gun for barrels and the like. No. 1,382,705; June 28; v. 287; p. 617.
Wood, Ada. (See Latham, Minnie M., assignor.)
Wood-Craft Company. (See Day, Herbert O., assignor.)
Wood, Edward L., Detroit, Mich. Means for fastening soft material to sheet metal. No. 1,381,154; June 14; v. 287; p. 212.
Wood, Joseph P., Columbus, Ga. Universal joint. No. 1,381,155; June 14; v. 287; p. 212.
Wood, William W. (See Muschewske, E., and Wood.)
Woodard, William E., Lima, Ohio. Lateral-thrust-bearing appliance for railway-axles. No. 1,380,456; June 7; v. 287; p. 25.
Woodard, William E., Forest Hills, N. Y., and H. W. Snyder, Lima, Ohio. Driving-wheel center. No. 1,380,457; June 7; v. 287; p. 35.
Woodard, William E., Forest Hills, N. Y., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,381,532; June 14; v. 287; p. 281.
Woodbury, Clifford A., Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Forming bursting charge. No. 1,382,260; June 21; v. 287; p. 478.
Woodland, Bert L., Muskegon, Mich. Piston. No. 1,381,047; June 7; v. 287; p. 139.
Woodruff, Alonzo, Auburn, N. Y. Inking-pad. No. 1,381,156; June 14; v. 287; p. 212.
Woodruff, Charles W., and R. H. Pausch, Columbus, Ohio. Purifying graphite and carbon. No. 1,380,458; June 7; v. 287; p. 25.
Woods, Alexander E. (See Blair, William J., assignor.)
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,380,455; June 7; v. 287; p. 25.
Woodworth, Charles B., Niagara Falls, assignor to Woodworth Manufacturing Corporation, Binghamton, N. Y. Spring-cover. No. 1,380,858; June 7; v. 287; p. 102.
Woodworth Manufacturing Corporation. (See Woodworth, Charles B., assignor.)
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,382,046; June 28; v. 287; p. 663.
Woolwine Metal Products Company. (See Frey, Sigmund, assignor.)
Woore, Walter B., New York, N. Y. Secondary valve. No. 1,383,180; June 28; v. 287; p. 707.
Woore, Walter B., New York, N. Y. Secondary valve. No. 1,383,272; June 28; v. 287; p. 724.
Woronzoff, Dionysie, New York, N. Y. Advance-order device. No. 1,381,609; June 14; v. 287; p. 295.
Worth, Charles B., Chicago, Ill. Machine for making molds. No. 1,382,041; June 21; v. 287; p. 437.
Worthington Pump and Machinery Corporation. (See Decrow, David A., assignor.)
Wortman, William F., Salisbury, New Brunswick, Canada. Nut-lock. No. 1,381,610; June 14; v. 287; p. 295.
Wright, Asa, Long Beach, Calif. Adjustable wire brush. No. 1,382,042; June 21; v. 287; p. 438.
Wright, Charles B., Jersey City, N. J., assignor of one-half to E. G. Nelson, New York, N. Y. Composing-stick. No. 1,381,888; June 14; v. 287; p. 349.
Wright, Clair G., Kansas City, Mo. Hose-support. No. 1,382,706; June 28; v. 287; p. 617.
Wright, George W., Lapel, and R. W. Nichols, Kokomo, Ind. Air-pump. No. 1,380,878; June 7; v. 287; p. 106.
Wright, Isaac H., Salford, Manchester, assignor to Smith & Coventry Limited, Salford, England. Adjustable belt-guide for drilling-machines. No. 1,380,623; June 7; v. 287; p. 56.
Wright, Kenneth, assignor of one-half to Ruben H. Williams, Flint, Mich. Manufacturing battery-plates. No. 1,381,387; June 14; v. 287; p. 254.
Wright, Thomas D., Springville, Ala. Concrete tie. No. 1,381,048; June 7; v. 287; p. 139.
Wulff, Henry, assignor to S. M. Ford, St. Paul, Minn. Machine and making shingles. No. 1,381,388; June 14; v. 287; p. 254.
Wulz, Edward, New York, N. Y. Combination-calipers. No. 1,380,624; June 7; v. 287; p. 57.
Wyckoff, J. Lewis, *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)
Wyckoff, J. Lewis, *et al.*, trustees. (See Hennessy, Daniel E., assignor.)
Wysong, Ansel S., Los Angeles, Calif. Printing-machine. No. 1,380,509; June 7; v. 287; p. 35.
Yale & Towne Manufacturing Company, The. (See Bock, Alfred, C. O., assignor.)
Yerger, Charles W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,380,696; June 7; v. 287; p. 70.
York Manufacturing Company. (See Williams, Llewellyn, assignor.)
Yoshinaga, Kuzo, Los Angeles, Calif. Indicating and recording speedometer. No. 1,380,510; June 10; v. 287; p. 35.
Youan, Joseph, *et al.* (See Avis, Sam, assignor.)
Young, Carl, Chicago, Ill. Shoe. No. 1,380,879; June 7; v. 287; p. 106.
Young Brothers Company. (See Curry, Frederick H., assignor.)
Young, Elmer F., Bay City, Mich. Finger-ring attachment. No. 1,382,043; June 21; v. 287; p. 438.
Young, Julius, Louisville, Ky. License-plate. No. 1,381,688; June 14; v. 287; p. 311.
Young, Willis G., Chicago, Ill. Folding stand. No. 1,382,707; June 28; v. 287; p. 618.
Youngbladt, William F., Denver, Colo. Belt-fastener. No. 1,382,044; June 21; v. 287; p. 438.
Youngs, Edward R., Miami, Fla. Tie-clasp. No. 1,380,459; June 7; v. 287; p. 26.
Yadwisinczak, Joseph. (See Bojko, Iwan, assignor.)
Yuasa, Shinkichi, Cupertino, Calif. Window-cleaner. No. 1,382,875; June 28; v. 287; p. 649.
Yuncker, Clarence. (See Riley, E., and Yuncker.)
Zahn, Otto E., Schleisingerville, Wis., assignor to J. E. Kiefer, Milwaukee, Wis. Tractor wheel and lug. No. 1,381,389; June 14; v. 287; p. 254.
Zaiden, David, East Orange, N. J. Mechanical doll. No. 1,382,708; June 28; v. 287; p. 618.
Zalewski, Felix P., and L. P. Hryshka, Preston, Ontario, Canada. Hanger-bracket. No. 1,382,709; June 28; v. 287; p. 618.
Zapf, John, North Bend, Ohio. Platform-spring attachment for motor-vehicles. No. 1,380,511; June 7; v. 287; p. 35.
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Zell, Jacob J., Philadelphia, and A. S. Vogt, Altoona, Pa. Journal-box. No. 1,380,697; June 7; v. 287; p. 71.
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Zigler, Elmer, Fort Pierre, S. D. Tire-chain retainer. No. 1,382,045; June 21; v. 287; p. 438.
Zilen, Victor W., and R. E. Fair, assignors to Lucey Manufacturing Corporation, Chattanooga, Tenn. Well-casing wrench. No. 1,380,513; June 7; v. 287; p. 36.
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Zimmerman, William C. F., Jr., Davenport, Iowa. Cable take-up. No. 1,382,046; June 21; v. 287; p. 438.
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Zitella, William, Adamston, W. Va. Rail-joint. No. 1,383,050; June 28; v. 287; p. 683.
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Bacheller, Edward F., Lynn, assignor of one-half to J. H. Stewart, Lynnfield, Mass. Golf-putter head. No. 58,209; June 28; v. 287; p. 727.
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Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Liquid-dispensing apparatus. No. 58,176; June 21; v. 287; p. 546.
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Beyrand, André, Limoges, France, assignor to H. C. Kupper, New York, N. Y. Plate or similar article. Nos. 58,211–13; June 28; v. 287; pp. 727–8.
Biffar, Fred, Jr., Chicago, Ill. Police-billy. No. 58,214; June 28; v. 287; p. 728.
Black, Samuel D., and A. G. Decker, Towson, assignor, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Combination motor and air-pump casing. No. 58,177; June 21; v. 287; p. 547.
Blekre, Edgar O., Minneapolis, Minn. Vehicle-tire. No. 58,058; June 7; v. 287; p. 150.
Blickman, Manuel, New York, assignor to S. Blickman, Brooklyn, N. Y. Pedestal. Nos. 58,059–60; June 7; v. 287; pp. 150–1.
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Bodenmiller, Joseph P., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Seesaw. No. 58,130; June 14; v. 287; p. 353.
Bowen, Michael B., assignor to Faries Manufacturing Co., Decatur, Ill. Arm for a portable lighting-fixture. Nos. 58,061–4; June 7; v. 287; p. 151.
Boyer, Harrison D., Philadelphia, Pa. Seat-body for children's vehicles. No. 58,065; June 7; v. 287; p. 151.
Brady, James H., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Gasoline-dispenser casing. No. 58,131; June 14; v. 287; p. 353.
Briesemeister, Rudolf P., New York, N. Y. Electrical adapter. No. 58,066; June 7; v. 287; p. 151.
Brill, Abraham K., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Tire. No. 58,067; June 7; v. 287; p. 152.
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Bucher, Alfred S., Decatur, Ga. Toy. Nos. 58,132–4; June 14; v. 287; p. 353.
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Campbell, Edward L., assignor to The J. R. Watkins Company, Winona, Minn. Vehicle tire or casing. No. 58,178; June 21; v. 287; p. 547.
Cannavaro, Theodore, New York, N. Y. Foot-propelled car for children. No. 58,068; June 7; v. 287; p. 152.
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Carver, Fred S., East Orange, N. J. Automobile disk wheel. No. 58,070; June 7; v. 287; p. 152.
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Chinsky, Harry H., and E. Honstetter, Brooklyn, N. Y. Spark-plug. No. 58,215; June 28; v. 287; p. 728.
Clouser, Clarence J., Columbus, Ohio. Toy animal. No. 58,135; June 14; v. 287; p. 354.
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Coleman, George B., assignor to Coleman X-ray Company, San Francisco, Calif. Cabinet for an X-ray unit. No. 58,216; June 28; v. 287; p. 728.
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Collins, William F., assignor of one-half to J. J. Schweinefuss, Centerville, Iowa. Pneumatic tire. No. 58,180; June 21; v. 287; p. 547.
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Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)
Connolly, Frank P., York, Pa. Advertising display device. No. 58,137; June 14; v. 287; p. 354.
Coombs, Carl B., Indianapolis, Ind. Radiator-cap. No. 58,136; June 14; v. 287; p. 354.
Copeland, Harry, Columbus, Nebr. Cork-cabinet. No. 58,071; June 7; v. 287; p. 152.
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Crosby, Alfred D., Attleboro, Mass. Collar-holder. No. 58,073; June 7; v. 287; p. 153.
Crowell, Frank S., assignor to The E. N. Riddle Co., Toledo, Ohio. Leg for candlesticks or other portable lamps. No. 58,074; June 7; v. 287; p. 153.
Culp, George K., New York, N. Y., assignor to New England Tire and Rubber Company, Holyoke, Mass. Tire for automobile-wheels. No. 58,218; June 28; v. 287; p. 729.
Dalitz, Harry, Cleveland, Ohio. Window-fastener. No. 58,219; June 28; v. 287; p. 729.
Davis, Joseph, assignor to The Insel Company, Newark, N. J. Teething-rattle. No. 58,075; June 7; v. 287; p. 153.
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Deig, Andrew M., Seattle, Wash. Combination checkerboard and tray. No. 58,138; June 14; v. 287; p. 354.
De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Combined snap-switch and plug-connector. No. 58,076; June 7; v. 287; p. 153.
Dickinson, Fredrick S., New York, N. Y., assignor to Perfection Tire & Rubber Company. Tire-casing. No. 58,181; June 21; v. 287; p. 547.
Dickinson, Fredrick S., New York, N. Y. Tire-casing. No. 58,182; June 21; v. 287; p. 547.
Dills, Henry S., Garrett, Ind. Fish-bait. Nos. 58,183–4; June 21; v. 287; p. 547.
Dills, Henry S., Garrett, Ind., assignor of one-half to James Heddon's Sons, Incorporated, Dowagiac, Mich. Surface ornamentation for artificial bait. No. 58,139; June 14; v. 287; p. 354.
Downey, Eugene M., and C. P. Hepp, assignors of one-third to L. F. Cole, Waukesha, Wis. Automobile signal-lamp. No. 58,185; June 21; v. 287; p. 548.
Dumas, Alfred P. (See Levasseur, P., and Dumas.)
Dye, Clarence A., Toledo, Ohio. Collar-holding device. No. 58,220; June 28; v. 287; p. 729.
East, Richard C., Evanston, Ill. Bed. No. 58,140; June 14; v. 287; p. 354.
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Eckl, Edward, assignor to Los Angeles Brewing Company, Los Angeles, Calif. Bottle. No. 58,077; June 7; v. 287; p. 153.
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Embanks, Fred M., Cleveland, Ohio. Railway-spike. No. 58,221; June 28; v. 287; p. 729.
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Faries Manufacturing Co. (See Grady, William J., assignor.)
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Fulton, George T., Grand Island, Nebr. Toy aeroplane. No. 58,078; June 7; v. 287; p. 153.
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Glidden, Alfred A., assignor to Hood Rubber Company, Watertown, Mass. Non-skid tread for automobile-tires. No. 58,080; June 7; v. 287; p. 154.
Glenn, John W., Buffalo, N. Y. Top. No. 58,079; June 7; v. 287; p. 154.

Glidden, Alfred A., G. G. Buell, Watertown, and E. O. Fritch, Belmont, assignors to Hood Rubber Company, Watertown, Mass. Tire-tread. No. 58,081; June 7; v. 287; p. 154.
Glowicki, Alexander, Cincinnati, Ohio. Motor-casing. No. 58,222; June 28; v. 287; p. 729.
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Goldsmith, Mary, St. Louis, Mo. Combined culinary masher and spoon. No. 58,223; June 28; v. 287; p. 729.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Face of an electrical attachment-plug device. No. 58,082; June 7; v. 287; p. 154.
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Gorham Manufacturing Company. (See Moses, Lionel, assignor.)
Grady, William J., assignor to Faries Manufacturing Co., Decatur, Ill. Arm for a portable lighting-fixture. Nos. 58,083–8; June 7; v. 287; pp. 154–5.
Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Footrest for children's vehicles. No. 58,143; June 14; v. 287; p. 355.
Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Wheel-fork for children's vehicles. No. 58,144; June 14; v. 287; p. 355.
Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Steering-head for children's vehicles. No. 58,145; June 14; v. 287; p. 355.
Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Handle for children's vehicles. No. 58,224; June 28; v. 287; p. 730.
Gudegast, Christian H., Richmond, Hill, N. Y. Corner member and leg. No. 58,225; June 28; v. 287; p. 730.
Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Valve-casing for a horn. No. 58,226; June 28; v. 287; p. 730.
Gulick, Laurence S., Philadelphia, Pa. Rack. No. 58,089; June 7; v. 287; p. 155.
Guymon, Harry J., Springfield, Ill. Car-check holder. No. 58,227; June 28; v. 287; p. 730.
Haddon's, James, Sons. (See Dills, Henry S., assignor.)
Hammond, William P., Maplewood, N. J. Combined mirrorscope and parking-light. No. 58,228; June 28; v. 287; p. 730.
Hands, Herbert J., Dallas, Tex. Automobile-lens. No. 58,146; June 14; v. 287; p. 356.
Harris, Ruth E., and R. L. Chance, San Francisco, Calif. Salt and pepper basket. No. 58,229; June 28; v. 287; p. 730.
Harvey, Sidney M., assignor to Electric Welding Machine Company, Detroit, Mich. Electric-welder cabinet. No. 58,230; June 28; v. 287; p. 731.
Haun, William C., Indianapolis, Ind. Radiator-cap. No. 58,147; June 14; v. 287; p. 356.
Haworth-Booth, Marie O., London, England. Bottle or container. No. 58,090; June 7; v. 287; p. 155.
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Heisler, Henry L., Chicago, Ill. Vacuum-jacketed carafe. No. 58,091; June 7; v. 287; p. 156.
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Henkel, Adolph A., assignor of one-half to H. A. Best, Chicago, Ill. Electric-lighting device. No. 58,092; June 7; v. 287; p. 156.
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Hill, Frederick W., Folkestone, England. Sparking-plug electrode. No. 58,231; June 28; v. 287; p. 731.
Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Crumbing implement. No. 58,232; June 28; v. 287; p. 731.
Hinz, Leo, Perth Amboy, N. J., assignor of one-half to F. Martin, New York, N. Y. Aeroplane-body. No. 58,233; June 28; v. 287; p. 731.
Holly, Frank A., assignor to Bastian Bros. Co., Rochester, N. Y. Rattle. Nos. 58,234–5; June 28; v. 287; p. 731.
Honstetter, Emil (See Chinsky, H. H., and Honstetter.)
Hood Rubber Company. (See Glidden, A. A., Buell, and Fritch, assignors.)
Hood Rubber Company. (See Glidden, Alfred A., assignor.)
Howard, John M., Media, Pa., and C. J. Allen, Moorestown, N. J. Tractor transmission-housing. No. 58,236; June 28; v. 287; p. 732.
Humphrey, Ira V., Highland Park, Pa. Tire. No. 58,187; June 21; v. 287; p. 548.
Iuculano, Frank, New York, N. Y. Phonograph. No. 58,148; June 14; v. 287; p. 356.
Insel Company, The. (See Davis, Joseph, assignor.)
Iowa Cord Tire Company. (See Klopfenstine, Clarence B., assignor.)
Jenkins, Florence De G., Philadelphia, Pa. Game-board. No. 58,093; June 7; v. 287; p. 156.
Jensen, Julian B., Alameda, Calif. Rotary-pump casing. No. 58,188; June 21; v. 287; p. 548.
Johnson, Robert W., Chicago, Ill. Collar-link. No. 58,237; June 28; v. 287; p. 732.
Journeaux, James E., and W. E. Hebestreit, Detroit, Mich. Signal-exhibitor casing. Nos. 58,238–40; June 28; v. 287; p. 732.
Kehm, August, Chicago, Ill. Radiator. No. 58,189; June 21; v. 287; p. 548.
Kehm, August, Chicago, Ill. Refrigerating-radiator. No. 58,190; June 21; v. 287; p. 548.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting-fixture. No. 58,149; June 14; v. 287; p. 356.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Body for lighting-fixtures. No. 58,241; June 28; v. 287; p. 732.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 58,242; June 28; v. 287; p. 733.
Klopfenstine, Clarence B., assignor to Iowa Cord Tire Company, Des Moines, Iowa. Non-skid tread for tires. Nos. 58,191–2; June 21; v. 287; p. 549.
Kunkle, George R., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Phonograph-casing. No. 58,150; June 14; v. 287; p. 356.
Kupper, Herman C. (See Beyrand, André, assignor.)
La Fayette Motors Company. (See White, D'Orsay M., assignor.)
Lambright, Grant, Fond du Lac, Wis. Tire-tread. No. 58,243; June 28; v. 287; p. 733.
Lee, Hoard, Shreveport, La. Motor-vehicle steering-wheel. No. 58,244; June 28; v. 287; p. 733.
Lesmieski, Stanislaus, Rochester, N. Y. Smoking set. No. 58,193; June 21; v. 287; p. 549.
Levasseur, Paul, and A. P. Dumas, Fall River, Mass. Sole-trimming machine. No. 58,194; June 21; v. 287; p. 549.
Linn, John B. (See Van Oradale, A. A., and Linn.)
Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
Lope, Edward L., Brooklyn, N. Y. Radiant gas-heater. No. 58,151; June 14; v. 287; p. 356.
Los Angeles Brewing Company. (See Eckl, Edward, assignor.)
McAfee, Jesse B., Dallas, Tex. Physician's traffic-signal. No. 58,097; June 7; v. 287; p. 157.
McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivator. No. 58,195; June 21; v. 287; p. 549.
McCauley, Herbert J., East Aurora, N. Y. Mud-guard for cycles. No. 58,246; June 28; v. 287; p. 733.
McCollough, W. A., & Sons. (See McCollough, William A., assignor.)
McCollough, William A., assignor to W. A. McCollough & Sons, Inc., Webster City, Iowa. Drinking-pan for stock-fountains. No. 58,196; June 21; v. 287; p. 549.
McKee Glass Company. (See Sailer, George D., assignor.)
McKee, Louis H., Trenton, N. J. School-desk. No. 58,247; June 28; v. 287; p. 734.
Maganuco, Carmelo, and F., Philadelphia, Pa. Washtub. No. 58,152; June 14; v. 287; p. 357.
Maganuco, Francisco. (See Maganuco, Carmelo, and F.)
Maker, Fred S., Seekonk, Mass., and R. K. Maker, Providence, R. I. Tie-clip. No. 58,153; June 14; v. 287; p. 357.
Maker, Ralph K. (See Maker, Fred S. and R. K.)
Manzel, Charles W., Buffalo, N. Y. Lubricating attachment. No. 58,154. June 14; v. 287; p. 357.
Mariner, Joseph A., Chicago, Ill. Cravat-holder. No. 58,094; June 7; v. 287; p. 156.
Marsh, Samuel L., New York, N. Y. Directory-cabinet. No. 58,245; June 28; v. 287; p. 733.
Martin, Friedrick. (See Hinz, Leo, assignor.)
Maryland Toy Manufacturing Company, The. (See Valenzia, Leo, assignor.)
Mathews, Ralph H. G., Chicago, Ill. Spark-gap rotor. No. 58,095; June 7; v. 287; p. 156.
Medén, Elof H., Short Hills, assignor to American Gas-Accumulator Company, Elizabeth, N. J. Highway-signal. No. 58,096; June 7; v. 287; p. 156.
Meek, Bruce, and F. W. Miller, Des Moines, Iowa. Sign. No. 58,155; June 14; v. 287; p. 357.
Meeker, Althia A., Eldon, Iowa. Plate. No. 58,248; June 28; v. 287; p. 734.
Mengel Company, The. (See Bodenmiller, Joseph P., assignor.)
Mengel Company, The. (See Green, Warren T., assignor.)
Miller, Fred W. (See Meek, B., and Miller.)
Mix, Melville W., Mishawaka, Ind. Phonograph-cabinet. No. 58,156; June 14; v. 287; p. 357.
Monkhouse, Frederick C., Rochester, N. Y. Rattle. No. 58,157; June 14; v. 287; p. 357.
Mooney, Charles S., Grand Rapids, Mich. Hearse-body. No. 58,249; June 28; v. 287; p. 734.
Moore, Jacob L., Muncie, Ind. Bed-spring. No. 58,158; June 14; v. 287; p. 358.
Morrill, Gertrude M., San Francisco, Calif. Display-fixture. No. 58,098; June 7; v. 287; p. 157.
Morse, Leo, New York, N. Y. Chain rattle. No. 58,159; June 14; v. 287; p. 358.
Morse, Leo, New York, N. Y. Rattle. No. 58,160; June 14; v. 287; p. 358.
Moses, Lionel, assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 58,099; June 7; v. 287; p. 157.
Mowitz, Albert T., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Phonograph-cabinet. No. 58,250; June 28; v. 287; p. 734.
Mulrone, Robert, Camperdown, Sydney, New South Wales, Australia. Toy horse with jockey. No. 58,251; June 28; v. 287; p. 734.
Munich, Stefan, Flushing, N. Y. Goblet or similar article. No. 58,197; June 21; v. 287; p. 550.

National X-Ray Reflector Co. (See Snow, Wilmer S., assignor.)

Nevins, George H., East Orange, N. J., assignor to Hugo Schneider, Tarrytown, N. Y. Surface ornamentation of an article of manufacture. No. 58,161; June 14; v. 287; p. 358.

New England Tire and Rubber Company. (See Culp, George K., assignor.)

Newton, Alfred J., Providence, R. I. Collar-holder. No. 58,100; June 7; v. 287; p. 157.

Ohm, Albert J. D., Astoria, assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Lighting-fixture canopy. No. 58,252; June 28; v. 287; p. 734.

Pagé, Victor W., Kew Gardens, N. Y. Automotive vehicle. No. 58,253; June 28; v. 287; p. 735.

Parsons, Irving R., Chicago, Ill. Receptacle. No. 58,254; June 28; v. 287; p. 735.

Pennock, Homer H., New York, N. Y. Advertising-disk. No. 58,101; June 7; v. 287; p. 157.

Pennsylvania Sales and Export Co. (See Waggoner, Albertus B., assignor.)

Perfection Tire & Rubber Company. (See Dickinson, Fredrick S., assignor.)

Phillips, Ross M. G., New Haven, Conn., assignor to P. P. Fallon, New York, N. Y. Vehicle toy. No. 58,255; June 28; v. 287; p. 735.

Polacheck, Charles, & Brothers Company. (See Weller, Walter A., assignor.)

Poritz, Frederick M., assignor to Star Chandelier Company, New York, N. Y. Lamp-shade. Nos. 58,102–3; June 7; v. 287; pp. 157–8.

Poritz, Frederick M., assignor to Star Chandelier Company, New York, N. Y. Chandelier. Nos. 58,104–7; June 7; v. 287; p. 158.

Pratt, Benjamin H., Milwaukee, assignor to The Federal Rubber Company, Cudahy, Wis. Vehicle-tire. No. 15,121; June 7; v. 287; p. 149.

Purcell, George A., Baltimore, Md. Toy aeroplane. No. 58,108; June 7; v. 287; p. 158.

Pyper Animated Sign Company, The. (See Pyper, George R., assignor.)

Pyper, George R., assignor to The Pyper Animated Sign Company, Salt Lake City, Utah. Alphabet of sign-letters. No. 58,256; June 28; v. 287; p. 735.

Raflovich, Harry, Buffalo, N. Y. Tire. No. 58,198; June 21; v. 287; p. 550.

Ray, Loyd W., Wichita, Kans. Vehicle-body. No. 58,257; June 28; v. 287; p. 735.

Regar, Harold D., Reading, Pa. Carbon-holder. No. 58,162; June 14; v. 287; p. 358.

Reuther, John, Hamburg, N. Y. Baby-jumper. No. 58,163; June 14; v. 287; p. 358.

Richert, Emmanuel T., Canton, Ohio. Toy balloon. No. 58,109; June 7; v. 287; p. 159.

Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)

Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Liquid-dispenser. Nos. 58,110–11; June 7; v. 287; p. 159.

Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. Nos. 58,200–1; June 21; v. 287; p. 550.

Schamburg, Charles, Park Ridge, Ill. Strainer-holder. No. 58,112; June 7; v. 287; p. 159.

Schneider, Hugo. (See Nevius, George H., assignor.)

Schneider, Jules E., assignor to Beach-Wagstaff Rubber Corporation, Dallas, Tex. Rubber-tire tread. No. 58,113; June 7; v. 287; p. 159.

Schweinefuss, John J. (See Collins, William F., assignor.)

Scranton, William F., Huntington, W. Va. Waste-basket. No. 58,258; June 28; v. 287; p. 736.

Second National Bank of Baltimore, trustee. (See Black, S. D., and Decker, assignors.)

Shapiro & Aronson. (See Klein, Max.)

Snow, Wilmer S., assignor to National X-Ray Reflector Co., Chicago, Ill. Lighting-fixture. No. 58,114; June 7; v. 287; p. 160.

Stanley, Arthur M., Lynn, assignor to Stanley Steel Welded Wheel Corporation, Boston, Mass. Vehicle-wheel. No. 58,164; June 14; v. 287; p. 359.

Stanley Steel Welded Wheel Corporation (See Stanley, Arthur M, assignor)

Star Chandelier Company. (See Poritz, Frelerick M., assignor.)

Steere, Collis H, Palo Alto, Calif Candy-container. No. 58,165; June 14; v. 287; p. 359.

Steffen, Emil C., Los Angeles, Calif. Game apparatus. No. 58,259; June 28; v. 287; p. 736.

Sternau, S., & Company. (See Wheaton, Theodore C., Jr., assignor.)

Stewart, John H. (See Bacheller, Edward F., assignor.)

Stipes, Reuben B., J. D. Goodwin, and H. C. Welch, Flint, Mich. Wheel-holder. No. 58,260; June 28; v. 287; p. 736.

Stock, John J., Erdenheim, Pa. Amusement-car. No. 58,115; June 7; v. 287; p. 160.

Stolley, William A., Dowagiac, Mich. Fish-bait body. No. 58,116; June 7; v. 287; p. 160.

Sweetland, Arthur H., Long Beach, Calif. Electrically-operated hand-drill. No. 58,117; June 7; v. 287; p. 160.

Thomas, Horace T., Lansing, Mich. Automobile-seat construction. No. 58,261; June 28; v. 287; p. 736.

Thomas, Horace T., Lansing, Mich. Automobile-body. No. 58,262; June 28; v. 287; p. 736.

Thomas, Horace T., Lansing, Mich. Automobile-top. No. 58,263; June 28; v. 287; p. 736.

Thomlinson, John R., Patrick, Glasgow, Scotland. Leather football-cover. Nos. 58,166–7; June 14; v. 284; p. 359.

Thompson, Elsie M., New York, N. Y. Furniture-cover. No. 58,168; June 14; v. 287; p. 359.

Townsend, Laura, Boston, Mass. Toy. No. 58,118; June 7; v. 287; p. 160.

Tracey, Samuel L., Toronto, Ontario, Canada. Game-board. No. 58,264; June 28; v. 287; p. 737.

U. S. Industrial Alcohol Co. (See Whitaker Milton C., assignor.)

Ullman, Nathan, New York, N. Y. Toy painting outfit. No. 58,119; June 7; v. 287; p. 160.

Valenzin, Leo, Baltimore, Md., assignor to The Maryland Toy Manufacturing Company, Incorporated. Ash-tray stand. No. 58,202; June 21; v. 287; p. 551.

Van Orsdale, Allen A., and J. B. Linn, Philadelphia, Pa. Lubricator. No. 58,169; June 14; v. 287; p. 359.

Visible Measure Gasoline Dispenser Company of America. (See Brady, James H., assignor.)

Voorhees, Carl, Flora, Ind. Toy coaster. No. 58,170; June 14; v. 287; p. 360.

Waggoner, Albertus B., assignor to Pennsylvania Sales and Export Co., Philadelphia, Pa. Lighting-globe. No. 58,171; June 14; v. 287; p. 360.

Walker, Ernest A., assignor to Arteraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 58,120; June 7; v. 287; p. 161.

Washington, William L., East Youngstown, Ohio. Emergency-tank for automobiles. No. 58,172; June 14; v. 287; p. 360.

Watkins, J. R., Company, The. (See Campbell, Edward L., assignor.)

Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)

Wegenaar, Louis A., Brooklyn, N. Y. Receptacle for toilet powder. Nos. 58,265–75; June 28; v. 287; pp. 737–8.

Welch, Howard C. (See Stipes, R. B., Goodwin, and Welch.)

Weller, Walter A., assignor to Charles Polacheck & Brothers Company, Milwaukee, Wis. Lighting-fixture. Nos. 58,276–8; June 28; v. 287; p. 739.

West, Ralph H., assignor to The West Steel Castings Company, Cleveland, Ohio. Vehicle-wheel. No. 58,279; June 28; v. 287; p. 739.

West Steel Castings Company, The. (See West, Ralph H., assignor.)

Westmont, John C., assignor to The Wisconsin Farm Tractor Company, Sauk City, Wis. Tractor. No. 58,280; June 28; v. 287; p. 739.

Wheaton, Theodore C., Jr., Washington, D. C., assignor to S. Sternau & Company, Brooklyn, N. Y. Bottle. No. 58,121; June 7; v. 287; p. 161.

Whitaker, Milton C., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Fuel-container. No. 58,281; June 28; v. 287; p. 739.

White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Headlight. No. 58,122; June 7; v. 287; p. 161.

Wiberg, Peter E., Glen Ridge, N. J. Collar-clasp or similar article. No. 58,123; June 7; v. 287; p. 161.

Widmer, Charles A., Paterson, N. J. Indicator, sign, or similar article. No. 58,282; June 28; v. 287; p. 740.

Willer, Eric F., assignor to Charles Abresch Co., Milwaukee, Wis. Automobile-body. No. 58,173; June 14; v. 287; p. 360.

Williams, Clara E., New York, N. Y. Lamp-shade. No. 58,124; June 7; v. 287; p. 161.

Wisconsin Farm Tractor Company, The. (See Westmont, John C., assignor.)

Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. No. 58,125; June 7; v. 287; p. 161.

Wood, Samuel J., Los Angeles, Calif. Bottle. No. 58,174; June 14; v. 287; p. 360.

Woodard, Louis, K., Mt. Vernon, N. Y. Radiator-cap ornament. No. 58,283; June 28; v. 287; p. 740.

Zapffe, Carl E., Seattle, Wash. Cigar-cutter. No. 58,175; June 14; v. 287; p. 360.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abraham Chocolate Co., Wapakoneta, Ohio. Candy covered with edible nuts. No. 143,528; June 7; v. 287; p. 181.

Acieral Company of America, The, New York, N. Y. Ingots, castings, rods, and sheets of aluminum and aluminum alloys. No. 143,879; June 21; v. 287; p. 577.

Adco Manufacturing Co., The, Columbus, Ohio. Internal-combustion engines. No. 143,880; June 21; v. 287; p. 577.

Adco Manufacturing Co., The, Columbus, Ohio. Hay-presses. No. 143,881; June 21; v. 287; p. 577.

Ainbinder, Max, Chicago, Ill. Women's, children's, and infants' outer wearing-apparel. No. 143,529; June 7; v. 287; p. 181.

Alexander Bogusiavsky, Ltd., London, England. Cigarettes. No. 144,174; June 28; v. 287; p. 773.

Alexis Witte Cutlery Co., New York and Brooklyn, N. Y. Razors, scissors, and hair-clippers. No. 144,089; June 21; v. 287; p. 583.

Allen, McNerney and Company, Attleboro, Mass. Combs. No. 144,093; June 21; v. 287; p. 585.

Alloys Motor Parts Mfg. Co., Tacoma, Wash. Engine parts and accessories consisting of pistons for gas-engines and carbureters. No. 143,882; June 21; v. 287; p. 577.

Allsteelequip Company, Aurora, Ill. Shelving, locker-cabinets, &c. No. 143,780; June 7; v. 287; p. 189.

Amboy Products Co., Inc., Chicago, Ill. Jar-rings. No. 144,157; June 28; v. 287; p. 773.

American Autoblood Company, Seattle, Wash. Composition used to keep water in automobile-radiators from freezing. No. 143,883; June 21; v. 287; p. 577.

American Bakers Machinery Company, St. Louis, Mo. Machines and equipments for use by bakers, &c. No. 143,884; June 21; v. 287; p. 577.

American Factors, Limited, Honolulu, Hawaii, and San Francisco, Calif. Coffee, canned fish, fruits, and vegetables, and butter. No. 144,158; June 28; v. 287; p. 773.

American Glue Company, Boston, Mass. Flint, garnet, and emery papers and cloths. No. 144,159; June 28; v. 287; p. 773.

American Home Economics Association, Baltimore, Md. Women's underskirts and petticoats. No. 143,885; June 21; v. 287; p. 577.

American Home Economics Association, Baltimore, Md. Woven silk fabric in the bolt or piece. No. 143,886; June 21; v. 287; p. 577.

American Hosiery Company, New Britain, Conn. Heath coats. No. 144,301; June 28; v. 287; p. 779.

American Hosiery Company, New Britain, Conn. Heath jackets. No. 144,302; June 28; v. 287; p. 779.

American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 143,530; June 7; v. 287; p. 181.

American Manganese Bronze Company, Inc., Philadelphia, Pa., and New York, N. Y. Bulk-bronze and castings made from bronze. No. 144,160; June 28; v. 287; p. 773.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. Nos. 143,887–8; June 21; v. 287; p. 577.

American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 144,161; June 28; v. 287; p. 773.

American Optical Company, Southbridge, Mass. Spectacles, eyeglasses, and other optical supplies and appliances. No. 144,094; June 21; v. 287; p. 585.

American Optical Company, Southbridge, Mass. Ophthalmic lenses, semifinished lenses, and blanks therefor. Nos. 144,162–5; June 28; v. 287; p. 773.

American Paint Works, New Orleans, La. Dry, paste, and ready-mixed paints, house-paints, interior and exterior finishes, &c. No. 143,842; June 14; v. 287; p. 399.

American Safetee Soap Corporation, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y. Toilet powder, shaving-lotion, tooth-powder, &c. No. 143,889; June 21; v. 287; p. 577.

American Saw and Manufacturing Company, Springfield, Mass. Saws. No. 144,095; June 21; v. 287; p. 585.

American Society of Agricultural Engineers, Ames, Iowa. Monthly publication. No. 143,890; June 21; v. 287; p. 577.

American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Woven-wire fencing. No. 144,096; June 21; v. 287; p. 585.

American Tissue Mills, Holyoke, Mass. Plain and crape tissue-papers, paper napkins, and waxed papers. No. 143,531; June 7; v. 287; p. 181.

American Tobacco Company, New York, N. Y. Smoking-tobacco, little cigars, and cigarettes. No. 144,166; June 28; v. 287; p. 773.

American Trading Company, New York, N. Y. Cotton piece goods. No. 143,532; June 7; v. 287; p. 181.

American Wholesale Corporation, (Baltimore Bargain House,) Baltimore and Cumberland, Md. Laundry soap. No. 144,167; June 28; v. 287; p. 773.

American Wiremold Company, The, Hartford, Conn. Non-metallic conduit. No. 143,843; June 14; v. 287; p. 399.

Amole Soap Company, The, Tippecanoe City, Ohio. Soap. No. 144,303; June 28; v. 287; p. 779.

Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. Nos. 143,781–2; June 7; v. 287; p. 189.

Anderson, Meyer & Co., Limited, New York, N. Y., and Shanghai, China Dyes. No. 143,841; June 14; v. 287; p. 399.

Anderson, V. D., Company, The, Cleveland, Ohio. Presses for removing oils and liquids. No. 144,097; June 21; v. 287; p. 585.

Angulo, Francisco, Madrid, Spain. Soap. Nos. 144,168–9; June 28; v. 287; p. 773.

Anheuser-Busch, Incorporated, St. Louis, Mo. Malt-sugar syrup for food purposes. Nos. 143,533–4; June 7; v. 287; p. 181.

Anheuser-Busch, Incorporated, St. Louis, Mo., and New Orleans, La. Ice-cream. No. 143,535; June 7; v. 287; p. 181.

Anheuser-Busch, Incorporated, St. Louis, Mo. Carbonated tea beverage. No. 143,544; June 7; v. 287; p. 181.

Annin & Co., New York, N. Y. Flags. No. 143,536; June 7; v. 287; p. 181.

Architects' Small House Service Bureau of Minnesota, Inc., The, Minneapolis, St. Paul, and Duluth, Minn., and Grand Forks, N. D. Magazine periodical. No. 143,891; June 21; v. 287; p. 577.

Argyle Chemical Works, Inc., The, Brooklyn, N. Y. Stove-polish. No. 143,537; June 7; v. 287; p. 181.

Arrowhead Springs Company, Los Angeles, Calif. Non-alcoholic beverages and syrups for making same. No. 143,783; June 7; v. 287; p. 189.

Asbestos Products Corporation, New York, N. Y. Liquid roofing. No. 143,784; June 7; v. 287; p. 189.

Aseptico Laboratories, Inc., Rochester, N. Y. Antiseptic solution to be applied to the mucous membrane. No. 143,538; June 7; v. 287; p. 181.

Ashcraft-Wilkinson Company, Atlanta, Ga. Cotton-seed meal for use as an animal food. No. 143,539; June 7; v. 287; p. 181.

Associated Manufacturers Company, Milwaukee, Wis. Toilet-paper fixtures. No. 144,170; June 28; v. 287; p. 773.

Athletic Underwear Company, Inc., New York, N. Y. Children's underwear. No. 143,892; June 21; v. 287; p. 577.

Atlanta Stove Works, Atlanta, Ga. Stoves. No. 143,896; June 21; v. 287; p. 577.

Atlantic Grass Seed Co., Inc., New York, N. Y. Grass-seed lawn mixture. Nos. 143,893–4; June 21; v. 287; p. 577.

Atlantic Monthly Company, The, Boston, Mass. Periodical published monthly. No. 143,895; June 21; v. 287; p. 577.

Atlas Body Works, Bridgeport, Conn. Automobile-truck bodies. No. 143,540; June 7; v. 287; p. 181.

Atlas Crucible Steel Co., Dunkirk, N. Y. Tool-steel. No. 143,897; June 21; v. 287; p. 577.

Atlas Crucible Steel Co., Dunkirk, N. Y. Steel. No. 143,898; June 21; v. 287; p. 577.

Atwater Fruit Exchange, Atwater, Calif. Fresh deciduous and vinous fruits. No. 143,541; June 7; v. 287; p. 181.

Auerbach, M., & Sons, New York, N. Y. Men's silk shirts. No. 143,900; June 21; v. 287; p. 577.

August Knitting Corporation, Utica, N. Y. Children's nightgowns, sleeping-garments, and pajamas. No. 143,543; June 7; v. 287; p. 181.

Augusta Ice Beverage Company, Augusta, Ga. Malt syrup and hop compound for making non-intoxicating cereal beverages. No. 143,542; June 7; v. 287; p. 181.

Automotive Manufacturing Company, Dayton, Ohio. Auxiliary air-inlet devices for internal-combustion engines, grease cups and guns. No. 143,899; June 21; v. 287; p. 577.

Automotive Specialty Manufacturing Co., Sacramento, Calif. Chemical oils and greases used for expanding wood and arresting the shrinkage thereof. No. 143,901; June 21; v. 287; p. 577.

Available Truck Company, Chicago, Ill. Automobile-trucks. No. 143,785; June 7; v. 287; p. 189.

Ayres, Charles S., Riverton, N. J. Indicators for liquid-dispensing pumps. No. 143,545; June 7; v. 287; p. 181.

Baccarlino, Umberto J., Fort Lee, N. J. Tomato spaghetti sauce. No. 143,761; June 7; v. 287; p. 188.

Bachrach, Harry J., New York, N. Y. Organdie, English printed voiles, dotted swisses, and French novelties in the piece. No. 143,902; June 21; v. 287; p. 577.

Baker, Charles H., Jr., Rochester, N. Y. Fresh citrus fruits. No. 143,546; June 7; v. 287; p. 181.

Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 143,547; June 7; v. 287; p. 181.

Baker, J., & Sons, Evansville, Ind. Overalls, coats, trousers, &c. No. 143,903; June 21; v. 287; p. 577.

Baldwin Company, The, Cincinnati, Ohio. Magazine published from time to time. No. 143,904; June 21; v. 287; p. 577.

Banner Silk Knitting Mills, Inc., New York, N. Y. Textile fabrics—namely, silk jersey-cloth. No. 143,905; June 21; v. 287; p. 577.

Barbieri, Peter, Perth Amboy, N. J. Bends of sole-leather. No. 143,906; June 21; v. 287; p. 578.

Barker, Edward T., Oakland, Calif. Sheet-rubber patches. No. 144,171; June 28; v. 287; p. 773.

Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Dip and disinfectant for animals and poultry, and household use. No. 143,786; June 7; v. 287; p. 189.

Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Poultry-disinfectant. No. 143,787; June 7; v. 287; p. 189.

Barnstead Still and Sterilizer Co., Boston, Mass. Water-stills. No. 144,098; June 21; v. 287; p. 585.

Barrett Company, The, New York, N. Y. Synthetic tanning extract. No. 143,548; June 7; v. 287; p. 181.

Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 143,907; June 21; v. 287; p. 578.

Bauman, Hyman & Co., New York, N. Y. Cotton piece goods. Nos. 143,550–1; June 7; v. 287; p. 181.

Bausch Machine Tool Company, Springfield, Mass. Universal joints. No. 144,099; June 21; v. 287; p. 585.

Basille & Partridge, Inc., St. Paul, Minn. Wall-paper. No. 143,549; June 7; v. 287; p. 181.

Beehler, William H., Baltimore, Md. Umbrellas, parasols, and canes. No. 143,552; June 7; v. 287; p. 181.

Beer, Alfred, Co. Inc., New York, N. Y. Shirtwaists and blouses. No. 144,304; June 28; v. 287; p. 779.

Berfelden Mills Inc., Plainfield, N. J., and New York, N. Y. Silk piece goods. No. 143,908; June 21; v. 287; p. 578.

Bernard Ulmann Co., Inc., New York, N. Y. Embroideries and notions. No. 144,076; June 21; v. 287; p. 583.

Bernet, Craft & Kauffman Milling Company, St. Louis, Mo. Wheat-flour. No. 143,553; June 7; v. 287; p. 181.

Bernstein, Samuel E., New York, N. Y. Certain articles of steel cutlery. No. 143,909; June 21; v. 287; p. 578.

Berry, Thomas W., Galesburg, Ill. Hair-grower. No. 143,910; June 21; v. 287; p. 578.

Bessemer Gas Engine Company, The, Grove City, Pa. Internal-combustion engines, oil-well-pumping powers, and fluid-compressors. No. 143,911; June 21; v. 287; p. 578.

Bird & Son, Inc., East Walpole, Mass. Packing-cases, cartons, paper and fiber board boxes, and paper flower-pots. No. 144,172; June 28; v. 287; p. 773.

Black & Decker Manufacturing Co., The, Baltimore, Md. Portable and other machinery. No. 143,554; June 7; v. 287; p. 181.

Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 143,555; June 7; v. 287; p. 181.

Blaw-Knox Company, Pittsburgh, Pa. Machinery and water-cooled equipment for furnaces. No. 143,912; June 21; v. 287; p. 578.

Bleadon-Dun Company, Chicago, Ill. Electromedical apparatus comprising high-frequency and violet-ray equipments, &c. No. 144,173; June 28; v. 287; p. 773.

Bock Bearing Company, The, Toledo, Ohio. Roller-bearings. No. 144,100; June 21; v. 287; p. 585.

Bogen, Louis, New York, N. Y. Children's, misses', and women's dresses, suits, and coats. No. 143,556; June 7; v. 287; p. 182.

Bonovin, Limited, Liverpool, England. Extract of meat. No. 144,177; June 28; v. 287; p. 773.

Boothe, Joseph W., Portsmouth, Ohio. Liniments. No. 143,913; June 21; v. 287; p. 578.

Borger, Samuel, New York, N. Y. Ladies', children's, and infants' dresses and skirts. No. 143,557; June 7; v. 287; p. 182.

Borgfeldt, Geo. & Co., New York, N. Y. Toilet preparations. No. 143,558; June 7; v. 287; p. 182.

Boston Knitting Mills, The, Boston, Mass. Infants' underwear of knitted material. No. 143,914; June 21; v. 287; p. 578.

Boyle, A. S., Cincinnati, Ohio. Floor-polish. No. 144,101; June 21; v. 287; p. 585.

Bradt & Beebe, San Francisco, Calif. Canned fruit and vegetables. No. 143,559; June 7; v. 287; p. 182.

Braun, Philip N. (See Prosperity Company, Inc., The, assignors.)

Brenner, J. E., & Co., New York, N. Y. Cotton piece goods. No. 143,788; June 7; v. 287; p. 189.

Bretz, Alfred A., Columbia, S. C. Salve or ointment for treatment of bruises, sore lips, chapping, &c. No. 144,178; June 28; v. 287; p. 773.

Bristol-Myers Company, Brooklyn, N. Y. Tooth-paste. No. 143,560; June 7; v. 287; p. 182.

Brotherton, Richard G., Manchester, England. Cotton piece goods. No. 143,561; June 7; v. 287; p. 182.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes for women, made of leather, rubber, fabric, and combinations thereof. No. 143,562; June 7; v. 287; p. 182.

Buckingham & Hecht, San Francisco, Calif. Shoes, boots, and slippers of leather, rubber, and canvas. No. 143,563; June 7; v. 287; p. 182.

Buckingham & Hecht, San Francisco, Calif. Shoes made of leather or fabric and combinations thereof. No. 143,915; June 21; v. 287; p. 578.

Buffalo Gasolene Motor Company, Buffalo, N. Y. Internal-combustion engines and parts thereof. No. 144,102; June 21; v. 287; p. 586.

Burger Bros. Company, The, Cincinnati, Ohio. Extract of barley-malt for breadstuffs and malted milk. No. 143,564; June 7; v. 287; p. 182.

Burnham, Alfred A., Boston, Mass. Saline aperient for the treatment of diseases. No. 143,844; June 14; v. 287; p. 399.

Burnstine and Nachman, New York, N. Y. Safety-pins. No. 143,916; June 21; v. 287; p. 578.

Burnstine and Nachman, New York, N. Y. Hair-nets. No. 143,917; June 21; v. 287; p. 578.

Butler, J. W., Paper Company, Chicago, Ill. Book-paper. No. 144,103; June 21; v. 287; p. 586.

Butler, J. W. Paper Company, Chicago, Ill. Paper and stationery. No. 144,104; June 21; v. 287; p. 586.

Butler, J. W., Paper Company, Chicago, Ill. Writing and printing papers, ruled papers, and papers intended for envelops. No. 144,305; June 28; v. 287; p. 779.

Butler, J. W., Paper Company, Chicago, Ill. Papers. No. 144,306; June 28; v. 287; p. 779.

C. W. Shoe Manufacturing Company, Portland, Oreg. Boots, shoes, loggers' boots, pacs, calk-locks, &c. No. 144,054; June 21; v. 287; p. 582.

Cabot, Samuel, Incorporated, Boston, Mass. Ready-mixed paints and tinting paints and stains. No. 143,789; June 7; v. 287; p. 189.

Cackle Dust Laboratories, Greenville, S. C. Medicated tonic for poultry. No. 143,565; June 7; v. 287; p. 182.

Cady & Olmstead Jewelry Co., Kansas City, Mo. Catalogues published from time to time. No. 143,918; June 21; v. 287; p. 578.

California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 143,790; June 7; v. 287; p. 190.

Camp Fire Girls, Inc., New York, N. Y. Monthly magazine. No. 143,566; June 7; v. 287; p. 182.

Canadian Fish & Cold Storage Co. Limited, Prince Rupert, British Columbia, Canada, and Chicago, Ill. All varieties of frozen fish, salt fish, and smoked fish. No. 143,567; June 7; v. 287; p. 182.

Capehart, James, Point Pleasant, W. Va., and Banyan, Merrits Island, Fla. Citrus fruits. No. 143,568; June 7; v. 287; p. 182.

Capitol Refining Co., South Washington, Va. Cooking-oils. No. 143,569; June 7; v. 287; p. 182.

Capitol Refining Co., South Washington, Va. Butter-oil. No. 144,307; June 28; v. 287; p. 779.

Capitol Refining Co., South Washington, Va. Cotton-seed cooking-oil. No. 144,308; June 28; v. 287; p. 779.

Caplan, D., & Sons., Baltimore, Md. Middy blouses and dresses and middy-suits. No. 143,845; June 14; v. 287; p. 399.

Carpenter-Morton Company, Boston, Mass. Dyes and dyeing compositions. No. 144,155; June 21; v. 287; p. 583.

Cassidy, Robinson A., New York, N. Y. Disinfectants. No. 144,179; June 28; v. 287; p. 773.

Chappell, Alexander W., Red Bank, N. J. Medicinal preparation for indigestion, dyspepsia, flatulence, &c. No. 144,183; June 28; v. 287; p. 773.

Chardard, Jean B. D. L., Paris, France. Automobiles, automobile radiators, reservoirs, and hoods. No. 143,930; June 21; v. 287; p. 578.

Chastains' Incorporated, Lewiston, Idaho. Photographic films. No. 143,919; June 21; v. 287; p. 578.

Chemische Fabrik vormals Sandoz, Basel, Switzerland. Medicinal preparation. No. 144,233; June 28; v. 287; p. 775.

Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. No. 143,920; June 21; v. 287; p. 578.

Cheney, S., & Son, Manlius, N. Y. Mower-knife and tool sharpener. No. 144,105; June 21; v. 287; p. 586.

Ching, Young, Astoria, Oreg. Medicine for an itch treatment. No. 143,791; June 7; v. 287; p. 190.

Chipman Knitting Mills, Easton and Spring Grove, Pa. Hosiery. No. 143,792; June 7; v. 287; p. 190.

Cincinnati Wall Paper Company, Cincinnati, Ohio. Wall-paper. No. 143,570; June 7; v. 287; p. 182.

Citizens' Wholesale Supply Co., The, Columbus, Ohio. Marshmallow crême and egg-powder compound. No. 143,571; June 7; v. 287; p. 182.

Clarke, Frederick, Chicago, Ill. Cigars and cigarettes. No. 144,180; June 28; v. 287; p. 773.

Cleveland, Alfred E., Cambridge, Mass. Toilet soap. No. 144,181; June 28; v. 287; p. 773.

Cleveland Twist Drill Co., The, Cleveland, Ohio. Reamers of all kinds. No. 144,106; June 21; v. 287; p. 586.

Cleveland Twist Drill Co., Cleveland, Ohio. Screw-extractors. No. 144,107; June 21; v. 287; p. 586.

Clip Bar Manufacturing Co., Philadelphia, Pa. Ratchet-wrenches. No. 144,108; June 21; v. 287; p. 586.

Clover Creamery Company Inc., Roanoke, Va. Ice-cream. No. 144,182; June 28; v. 287; p. 773.

Cohen, Syma, Chicago, Ill. Face powders and creams and rouge. No. 143,921; June 21; v. 287; p. 578.

Cole, John N., San Francisco, Calif. Liquid antiseptic for internal and external use. No. 143,572; June 7; v. 287; p. 182.

Cole, John N., San Francisco, Calif. Venereal prophylactic ointment. No. 144,184; June 28; v. 287; p. 773.

Cole, Oron P., Dover, N. J. Peppermint candies. No. 143,573; June 7; v. 287; p. 182.

Colgate & Company, Jersey City, N. J. Soaps. Nos. 143,793–4; June 7; v. 287; p. 190.

Collins, Horace M., Los Angeles, Calif. Liquid compound for rheumatism and muscular pain. No. 143,922; June 21; v. 287; p. 578.

Columbia Ribbon Co., The, Paterson, N. J. Ribbon in the piece. No. 144,309; June 28; v. 287; p. 779.

Commercial Aeroplane Wing Syndicate Limited, The, London, England. Aeroplanes and certain named parts thereof. No. 143,574; June 7; v. 287; p. 182.

Compton, J. A., Coshocton, Ohio. Phonographs. No. 144,310; June 28; v. 287; p. 780.

Coudurier, Fructus et Descher, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. Nos. 143,575–7; June 7; v. 287; p. 182.

Converse, Morton E., and Son Co., Winchendon, Mass. Toys. No. 144,185; June 28; v. 287; p. 773.

Coon, Neva C., Washington, D. C. Wrinkle-eradicator and muscle-builder and a hair-tonic and dandruff cure. No. 143,922; June 21; v. 287; p. 578.

Corona Typewriter Co., Inc., Groton, N. Y. Typewriting-machines. No. 144,109; June 21; v. 287; p. 586.

Costarella, Domenico, New York, N. Y. Hair-tonic. No. 143,924; June 21; v. 287; p. 578.

Cousins, J. & T., Co., Brooklyn, N. Y. Shoes of leather or combination of leather and fabric. No. 143,925; June 21; v. 287; p. 578.

Craig, W. D., Austin, Tex. Laxative. No. 143,926; June 21; v. 287; p. 578.

Crane & Breed Manufacturing Company, The, Cincinnati, Ohio. Monthly and periodical publication. No. 143,579; June 7; v. 287; p. 182.

Crane Company, Chicago, Ill. Certain pipe fittings and valves. No. 143,927; June 21; v. 287; p. 578.

Creft Chemical Co., Monroe, N. C. Salve used in treatment of bronchitis, pneumonia, &c. No. 143,928; June 21; v. 287; p. 578.

Creomulsion Company, Griffin, Ga. Medicine. No. 144,186; June 28; v. 287; p. 774.

Cronkhite Company, The, Boston, Mass. Fiber-ware receptacles—namely, cans, barrels, boxes, &c. No. 144,312; June 28; v. 287; p. 780.

Crowley, Timothy F., New York, N. Y. Women's collars, stocks, vestees, &c. No. 143,929; June 21; v. 287; p. 578.

Crystal-Lac Products Company, Los Angeles, Calif. Liquid cleaning and polishing materials for automobile-bodies. No. 144,234; June 28; v. 287; p. 775.

Curran-Detroit Radiator Co., Detroit, Mich. Automobile-radiators. No. 143,795; June 7; v. 287; p. 190.

Curtiss Candy Company, Chicago, Ill. Candy. No. 143,578; June 7; v. 287; p. 182.

Dages, August, Philadelphia, Pa. Mayonnaise. No. 144,110; June 21; v. 287; p. 586.

Dahnke-Walker Milling Co., Union City, Tenn. Wheat and corn products. No. 143,580; June 7; v. 287; p. 182.

Davis, W. R., & Company, Atlanta, Ga. Stock food. No. 143,796; June 7; v. 287; p. 190.

Day, Adra L., Danvers, Mass. Sheepskin, kid, calf, and fabric shoes, slippers, and booties. No. 144,313; June 28; v. 287; p. 780.

De Klyn Candy Co., The, Cleveland, Ohio. Candy. No. 143,581; June 7; v. 287; p. 182.

De Martino, Adelina, New York, N. Y. Salad-dressing. No. 143,582; June 7; v. 287; p. 182.

Dermatological Research Laboratories, Philadelphia, Pa. Medicine compound derived from an extract of ararobn. No. 143,931; June 21; v. 287; p. 578.

Detroit Dental Manufacturing Company, Detroit, Mich. Dental specialties. No. 143,846; June 14; v. 287; p. 399.

Detroit Steering Wheel Corp., Detroit, Mich. Automobile steering-wheels. No. 143,797; June 7; v. 287; p. 190.

Diamant, Bernahd, New York, N. Y. Liniment for external use for rheumatism, &c. No. 143,961; June 21; v. 287; p. 579.

Diller, Howard E., Salina, Kans. Pile remedy. No. 143,932; June 21; v. 287; p. 578.

Dilling & Company, Indianapolis, Ind. Chocolate candy. No. 143,583; June 7; v. 287; p. 182.

Dilling & Company, Indianapolis, Ind. Candy—namely, chocolate bars. No. 143,584; June 7; v. 287; p. 182.

Dilling & Company, Indianapolis, Ind. Chocolate-bar candy. No. 143,585; June 7; v. 287; p. 182.

Diosine Chemical Co., Ludlow, Vt., Cleaning composition for fabrics. No. 144,187; June 28; v. 287; p. 774.

District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Blotting, box, cover, and text-book papers. No. 143,586; June 7; v. 287; p. 182.

Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Embroideries and notions. No. 143,933; June 21; v. 287; p. 578.

Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Threads, twists, yarns. No. 143,934; June 21; v. 287; p. 578.

Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Certain named embroideries and notions. No. 143,935; June 21; v. 287; p. 578.

Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Threads, twist, yarns. No. 143,936; June 21; v. 287; p. 578.

Dover Manufacturing Company, Dover, Ohio. Electric sadirons. No. 144,111; June 21; v. 287; p. 586.

Dulle-Meyer Milling Company, Chamois, Mo. Wheat-flour. No. 143,798; June 7; v. 287; p. 190.

Dunbar, Guy S., New York, N. Y. Indigestion remedy. No. 143,937; June 21; v. 287; p. 579.

Duncan, J. Company, Everett, Mass. Overhead tramway-switches. No. 144,112; June 21; v. 287; p. 586.

Dunlop Rubber Company Limited, The, London, England. Tires. No. 143,587; June 7; v. 287; p. 182.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. Nos. 143,588–93; June 7; v. 287; p. 183.

Duratex Company, The, Newark, N. J. Coated textile fabrics. No. 143,594; June 7; v. 287; p. 183.

Dust Recovering & Conveying Company, The, Cleveland, Ohio. Dust-collecting machinery and apparatus and systems and pneumatic conveying machinery, apparatus, and systems. No. 143,938; June 21; v. 287; p. 579.

Dyer Company, The, Cambridge, Mass. Pistons. No. 144,113; June 21; v. 287; p. 587.

E-Z Waist Company, The, New York, N. Y. Children's waist union-suits. No. 143,766; June 7; v. 287; p. 188.

Eagle Rubber Co., The, Ashland, Ohio. Toy balloons. No. 144,235; June 28; v. 287; p. 775.

Earl & Wilson, Troy, N. Y. Collars, dress, negligée, and under shirts, and cuffs. No. 143,847; June 14; v. 287; p. 399.

East Brothers Coal Co., Chicago, Ill. Anthracite and bituminous coals. No. 143,939; June 21; v. 287; p. 599.

East and West Trading Corporation, New York, N. Y. Hair-nets. No. 143,595; June 7; v. 287; p. 183.

Eaton, Crane & Pike Company, Pittsfield, Mass. Paper and stationery. No. 144,114; June 21; v. 287; p. 587.

Econo Shoe Manufacturing Co., The, Houghton, Mich. Boots and shoes. No. 143,940; June 21; v. 287; p. 579.

Edson Manufacturing Co., Boston, Mass. Liquid-pumps and liquid-pumping apparatus. No. 144,115; June 21; v. 287; p. 587.

Edward Katzinger Company, Chicago, Ill. Trade publication. No. 143,986; June 21; v. 287; p. 580.

Edwin Harrax, Inc., New York, N. Y. Notions and smallwares. No. 144,231; June 28; v. 287; p. 775.

Eli Lilly and Company, The, Indianapolis, Ind. Medicinal preparations. No. 144,210; June 28; v. 287; p. 774.

Elliot Shoe Co., Brockton, Mass. Leather shoes. No. 143,941; June 21; v. 287; p. 579.

El Reno Mill & Elevator Co., El Reno, Okla. Wheat-flour. No. 143,687; June 7; v. 287; p. 185.

Elsworth, J. & J. W., Co., New York, N. Y. Fresh oysters and clams. No. 143,799; June 7; v. 287; p. 190.

Emerson Shoe Company, The, Rockland, Mass. Boots and shoes of leather, rubber, or fabric. No. 143,596; June 7; v. 287; p. 183.

Emery-Scott Seed Company, New Albany, Ind. Grass and garden seeds. No. 143,942; June 21; v. 287; p. 579.

Emmerich, Chas., & Co., Chicago, Ill. Pillows. No. 144,211; June 28; v. 287; p. 774.

Empire Varnish Company, The, Cleveland, Ohio. Paints and painters' materials. No. 143,597; June 7; v. 287; p. 183.

Enders Human Hair Co., New York, N. Y. Hair-nets. No. 143,962; June 21; v. 287; p. 579.

English China Clay Sales Corporation, New York, N. Y. Clay for pottery and for paper-makers. No. 143,943; June 21; v. 287; p. 579.

Enterprise Coal Company, Garrett, Pa. Coal. No. 143,944; June 21; v. 287; p. 579.

Erb, Hannah, Greensburg, Pa. Cough remedy. No. 144,224; June 28; v. 287; p. 775.

Erickson, C. E., Co. Inc., Des Moines, Iowa. Thermometers. No. 143,945; June 21; v. 287; p. 579.

Escanaba Manufacturing Company, Escanaba, Mich. Wooden toothpicks. No. 144,212; June 28; v. 287; p. 774.

Esleeck Mfg. Co., Turners Falls, Mass. Onion-skin paper. No. 143,598; June 7; v. 287; p. 183.

Espinosa-Rendon, Felix M., Laredo, Tex. Preparation for restoring the natural color of the hair. No. 143,728; June 7; v. 287; p. 187.

Esser, T. C., Company, Milwaukee, Wis. Varnishes, japans, oil-paints, and paint-oils. No. 143,800; June 7; v. 287; p. 190.

Estlow, Leon W., Burlington, N. J. Foot-powders. No. 143,946; June 21; v. 287; p. 579.

Etablissements Poulence Frères, Paris, France, by G. Roché, administrator. Curative vaccins. No. 144,315; June 28; v. 287; p. 780.

Etablissements Poulence Frères, Paris, France, by G. Roché, administrator. Dihydrochlorid of dioxydiamino-arsenobenzol. No. 144,316; June 28; v. 287; p. 780.

Evans, William L., Jr., Washington, Ind. Hinges for doors, sashes, &c. No. 144,116; June 21; v. 287; p. 587.

Everett, Heaney & Company, Inc., New York, N. Y. Men's suits. No. 143,599; June 7; v. 287; p. 183.

Everwear Manufacturing Co., San Francisco, Calif. Overalls, auto-suits, and work coats. No. 144,317; June 28; v. 287; p. 780.

Experimenter Publishing Co., New York, N. Y. Publication issued monthly. No. 143,947; June 21; v. 287; p. 579.

Factory Supply Company, Chicago, Ill. Hammers, sledges, picks, &c., and handles therefor. No. 144,213; June 28; v. 287; p. 774.

Fairbury Mill & Elevator Co., The, Fairbury, Nebr. Wheat-flour, wheat Graham, pancake-flour, and cornmeal. No. 143,600; June 7; v. 287; p. 183.

Falulah Paper Company, Fitchburg, Mass. Coated cardboard. No. 143,601; June 7; v. 287; p. 183.

Famous Coat Front Pad Co., The, New York, N. Y. Coat-front pads made of cut-out canvas, burlap, &c. No. 143,602; June 7; v. 287; p. 183.

Faultless Caster Co., Evansville, Ind. Casters for furniture. No. 144,117; June 21; v. 287; p. 587.

Faultless Rubber Company, The, Ashland, Ohio. Toy balloons. No. 144,214; June 28; v. 287; p. 774.

Ferko, Joseph A., Philadelphia, Pa. Foot-powder. No. 143,603; June 7; v. 287; p. 183.

Fiberloid Corporation, The, Indian Orchard, Mass. Shoe-horns, button-hooks, glove-stretchers, and combs. No. 143,948; June 21; v. 287; p. 579.

Fine & Co., I., Inc., New York, N. Y. Substitute for cream. No. 144,318; June 28; v. 287; p. 780.

Firstade Laboratories, Inc., Tulsa, Okla. Antiseptic mentholated cream. No. 143,801; June 7; v. 287; p. 191.

Fitzpatrick Bros., Chicago, Ill. Cleaning and scouring preparation for household use, machinery, &c. No. 144,215; June 28; v. 287; p. 774.

Fli-No-Mo Manufacturing Company, Newport News, Va. Insecticide used against flies, roaches, fleas, &c. No. 143,963; June 21; v. 287; p. 579.

Ford Roofing Products Co., Inc., Wilmington, Del., and Chicago, Ill. Prepared roofing—that is, felt roofing. No. 143,604; June 7; v. 287; p. 183.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 143,605–11; June 7; v. 287; p. 183.

Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 143,949–51; June 21; v. 287; p. 579.

4-One-Box Machine Makers, Portland, Me., and Rockaway, N. J. Boxes and packing-cases. No. 144,256; June 28; v. 287; p. 776.

Fox Bros. Mfg. Co., The, Peru, Ind., and New York, N. Y. Undershirts, drawers, chemises, nightgowns, and petticoats. No. 143,802; June 7; v. 287; p. 191.

Fraser, Carleton M., Bridgeport, Conn. Motion-picture films. No. 143,612; June 7; v. 287; p. 183.

Frick Company, Waynesboro, Pa. Threshing machinery, sawmills, portable and stationary steam-engines, &c. No. 143,952; June 21; v. 287; p. 579.

Frick Company, Waynesboro, Pa. Machinery—namely, ice-making and refrigerating machinery. No. 144,236; June 28; v. 287; p. 775.

Frier, John, St. Louis, Mo. Shoe-laces. No. 143,953; June 21; v. 287; p. 579.

Fuller Brush Company, The, Hartford, Conn. Crumb-trays, crumb and sink scrapers. No. 144,216; June 28; v. 287; p. 774.

G. & J. Tire Company, Indianapolis, Ind. Vehicle-tires made of rubber. No. 143,874; June 14; v. 287; p. 402.

Gaudynski, Joseph S., Milwaukee, Wis. Antiseptic cones for female debility. No. 143,964; June 21; v. 287; p. 579.

General Fireproofing Co., The, Youngstown, Ohio. Safes, keys, locks, safe fittings and interiors and parts thereof. No. 143,613; June 7; v. 287; p. 183.

Genung, Chas. W., Madison, Ohio. Certain agricultural implements. No. 144,217; June 28; v. 287; p. 774.

Georgia Marble Company, The, Tate, Ga. Finished marble and cut stone. Nos. 143,848–9; June 14; v. 287; p. 399.

Germain Seed and Plant Company, Los Angeles, Calif. Vegetables, &c., seeds, bulbs, and nursery-stock. No. 143,803; June 7; v. 287; p. 191.

Gillis & Geoghegan, New York, N. Y. Telescopic and non-telescopic stationary hoists and heads, jibs, &c. No. 143,954; June 21; v. 287; p. 579.

Gilmers Incorporated, Winston-Salem, N. C. Canned goods. No. 143,614; June 7; v. 287; p. 183.

Gilmers Incorporated, Winston-Salem, N. C. Coffee. No. 143,615; June 7; v. 287; p. 183.

Given, John M., Co., The, Pittsburgh, Pa.; Chicago, Ill., and New York, N. Y. Hosiery. No. 143,616; June 7; v. 287; p. 183.

Glass Novelty Company, The, Chicago, Ill. Medicine-cabinets, baby-bassinets, cribs, children's dresses, &c. No. 144,237; June 28; v. 287; p. 775.

Glazer, Joseph, Fort Worth, Tex. Non-alcoholic, non-cereal, maltless beverages and syrups therefor. No. 143,617; June 7; v. 287; p. 183.

Glemby, S., Inc., New York, N. Y. Hair-nets. Nos. 143,618–20; June 7; v. 287; p. 183.

Glemby, S., Inc., New York, N. Y. Hair-nets. No. 143,804; June 7; v. 287; p. 191.

Godshalk, Elmer G., Blackwell, Okla. Locks and lock-casings. No. 144,218; June 28; v. 287; p. 774.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Waterproofing liquid for treating fabrics. No. 143,955; June 21; v. 287; p. 579.

Golden Grain Juice Co., Minneapolis, Minn. Non-alcoholic beverage containing malt. No. 143,621; June 7; v. 287; p. 184.

Goldmeyer, Thiel & Arnold, New York, N. Y. Fruit fillings, mince-meat, apple and corn syrup, jelly, &c. No. 143,622; June 7; v. 287; p. 184.

Goldson, Elihu, Los Angeles, Calif. Dresses for women. No. 143,956; June 21; v. 287; p. 579.

Gomi, Evelina F., New York, N. Y. Incense. No. 143,965; June 21; v. 287; p. 579.

Goodrich, B. F., Company, The, New York, N. Y. Waterproof coats, jackets, and boots, &c. No. 143,623; June 7; v. 287; p. 184.

Goodrich, B. F., Company, The, New York, N. Y. Thread made of rubber. No. 143,957; June 21; v. 287; p. 579.

Goodrich, B. F., Company, The, New York, N. Y. Dental, medical, and surgical apparatus of rubber. No. 144,219; June 28; v. 287; p. 774.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Periodical issued monthly by the applicant. No. 143,624; June 7; v. 287; p. 184.

Gorton Chocolate Company, Inc., Corning, N. Y. Candies. No. 144,119; June 21; v. 287; p. 587.

Goss, Emma, St. Louis, Mo. Hair grower or tonic. No. 143,625; June 7; v. 287; p. 184.

Gottmann, Theodore, & Sons, Chicago, Ill. Chocolate candy. No. 143,850; June 14; v. 287; p. 400.

Graham Bros. Soap Co., Chicago, Ill. Toilet and laundry soap. No. 144,220; June 28; v. 287; p. 775.

Grangers Lime Company, Boston, Mass. Ground limestone. No. 143,966; June 21; v. 287; p. 579.

Graniteville Manufacturing Company, Graniteville, S. C., and New York, N. Y. Cotton piece goods including sheeting. No. 143,626; June 7; v. 287; p. 184.

Grantier, Bert, Esperance, N. Y. Buckwheat-flour. No. 143,805; June 7; v. 287; p. 191.

Graves, Douglas N., Waltham, Mass. Sponge-cloth. No. 143,958; June 21; v. 287; p. 579.

Great Lakes Forge Company, Chicago, Ill. Drop-forgings. No. 144,221; June 28; v. 287; p. 775.

Great Western Milling Company, Los Angeles, Calif. Food for stock, particularly for rabbits. No. 143,627; June 7; v. 287; p. 184.

Greenblat & Gold, New York, N. Y. Boys' clothing. No. 143,967; June 21; v. 287; p. 579.

Greig & Glover, Inc., Chicago, Ill. Confectionery—namely, chocolate-almond bars. No. 143,628; June 7; v. 287; p. 184.

Griffin Mfg. Co., The, Boston, Mass. Air-valve for automobile-tires, pneumatic cushions, &c. No. 143,959; June 21; v. 287; p. 579.

Griffin, W. H., Company, Manchester, N. H. Men's, boys', and youths' leather shoes. No. 144,319; June 28; v. 287; p. 780.

Grossman, Harry, New York, N. Y. Belt-buckles. No. 143,960; June 21; v. 287; p. 579.

Guardsman Publishing and Printing Company, The, Austin, Tex. Monthly magazine. No. 143,968; June 21; v. 287; p. 579.

Guest Neckwear Company, Inc., Rochester, N. Y. Neckties. No. 143,629; June 7; v. 287; p. 184.

Guyer & Calkins Co., Freeport, Ill. Foods. No. 143,630; June 7; v. 287; p. 184.

Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton piece goods and combinations thereof. No. 143,631; June 7; v. 287; p. 184.

Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, and cotton and cotton piece goods and combinations thereof. No. 143,969; June 21; v. 287; p. 580.

Haas Brothers Fabrics Corporation, New York, N. Y. Printed books issued semi-annually. No. 144,222; June 28; v. 287; p. 775.

Haines & Parsons, Camden, N. J. Board game. No. 144,223; June 28; v. 287; p. 775.

Hall Hardware Company, Minneapolis, Minn. Machines and tools. No. 143,970; June 21; v. 287; p. 580.

Hammel, Riglander & Co., New York, N. Y. Gravers, chisels, gougers, burnishers, tracers, and files. No. 143,971; June 21; v. 287; p. 580.

Hammond, Standish & Co., Detroit, Mich. Oleomargarin. No. 143,750; June 7; v. 287; p. 187.

Hampden Watch Company, The, Canton, Ohio. Watches and watch-movements. No. 144,120; June 21; v. 287; p. 587.

Hampton Cracker Co., The, Madison, Ind. Crackers. No. 143,632; June 7; v. 287; p. 184.

Haralson, William L., Fort Payne, Ala. Medicinal preparation for indigestion. No. 143,972; June 21; v. 287; p. 580.

Haralson, William L., Fort Payne, Ala. Medicinal preparation for diarrhea, cholera morbus, &c. No. 143,973; June 21; v. 287; p. 580.

Harris-Polk Hat Company, St. Louis, Mo. Straw hats. No. 143,806; June 7; v. 287; p. 191.

Harrods (North America) Ltd., New York, N. Y. Ladies' suits, waists, hosiery, and underclothes. No. 143,633; June 7; v. 287; p. 184.

Harrods (North America) Ltd., New York, N. Y. Men's overcoats. Nos. 143,634–5; June 7; v. 287; p. 184.

Harzee Manufacturing Company, The, Cleveland, Ohio. Mops and a species of mops known as dusters. No. 144,225; June 28; v. 287; p. 775.

Haskins Brothers & Company, Omaha, Nebr., and Sioux City, Iowa. Laundry soap. No. 144,226; June 28; v. 287; p. 775.

Hatter's Clearing House, Inc., The, New York, N. Y. Men's and boys' hats and caps. No. 143,636; June 7; v. 287; p. 184.

Hearn, James A., & Son, Inc., New York, N. Y. Corsets. No. 143,637; June 7; v. 287; p. 184.

Hearn, James A., & Son, Inc., New York, N. Y. Articles of clothing. No. 143,638; June 7; v. 287; p. 184.

Heaton Peninsular Button Fastener Company, Portland, Me., and Boston, Mass. Metallic button-fasteners. No. 143,974; June 21; v. 287; p. 580.

Hecker Cereal Company, New York, N. Y. Prepared cake-flour. No. 143,639; June 7; v. 287; p. 184.

Held Bros. Inc., El Paso, Tex. Wheat-flour. No. 143,640; June 7; v. 287; p. 184.

Hellmann, Louis H., New York, N. Y. Fresh potatoes. No. 143,641; June 7; v. 287; p. 184.

Heminway & Bartlett Silk Co., Watertown, Conn. Hosiery. No. 143,975; June 21; v. 287; p. 580.

Henshaw, Charles S., Boston, Mass. Motor-vehicles. No. 144,156; June 21; v. 287; p. 591.

Henwood & Nowak, Boston, Mass. Glazed kid. No. 143,976; June 21; v. 287; p. 580.

Herrera, Francisco, Habana, Cuba, and New York, N. Y. General tonic. No. 143,977; June 21; v. 287; p. 580.

Herzfeld-Phillipson Company, The, Milwaukee, Wis. Corsets. No. 143,642. June 7; v. 287; p. 184.

Herzfeld-Phillipson Company, The, Milwaukee, Wis. Men's and boys' clothing consisting of coats, trousers, and vests. No. 143,643; June 7; v. 287; p. 184.

Hickok Manufacturing Company, Inc., Rochester, N. Y. Belts for supporting wearing-apparel and buckles not of precious metal for personal use. No. 143,978; June 21; v. 287; p. 580.

Hill, Clarke & Co. of Chicago, Chicago, Ill. Certain machinery and tools. No. 144,121; June 21; v. 287; p. 587.

Hill-Smith Goods Company, Boston, Mass. Welding compounds. No. 143,979; June 21; v. 287; p. 580.

Hillinger, Yetta, Vallejo, Calif. Tea composed of herbs and plants. No. 143,644; June 7; v. 287; p. 184.

Hilton Collins Co., Louisville, Ky. Baseball-bats. No. 144,227; June 28; v. 287; p. 775.

Hilton Company, Inc., The, Newark, N. J. Men's and boys' clothing. Nos. 143,980–1; June 21; v. 287; p. 580.

Hinrichs, George F., Incorporated, New York, N. Y. Eggs and live and dressed poultry. No. 143,645; June 7; v. 287; p. 184.

Hirsch, Cal., & Sons, Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Ladies' cotton and woolen outing-suits consisting of coats, caps, &c. No. 143,646; June 7; v. 287; p. 184.

Holcomb, Dello A., Youngstown, Ohio. Dry cleaner, metal and glass polish. No. 144,228; June 28; v. 287; p. 775.

Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 143,647; June 7; v. 287; p. 184.

Hollis, Otis A., Knoxville, Pa. Window ventilating-screens. No. 143,982; June 21; v. 287; p. 588.

Holmes Automobile Company, Canton, Ohio. Automobiles. No. 143,807; June 7; v. 287; p. 191.

Homer Furnace Company, Coldwater, Mich. Sheet-metal casings for coal, wood, and gas furnaces. No. 143,851; June 14; v. 287; p. 400.

Honeycut, Anderson D., Gatesville, Tex. Soap for cleaning and polishing eyeglasses, spectacles, and goggles. No. 144,229; June 28; v. 287; p. 775.

Hood, H. P., & Sons, Inc., Boston, Mass. Ice-cream. No. 144,230; June 28; v. 287; p. 775.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating-oils. No. 143,852; June 14; v. 287; p. 400.

Howard Iron Works, Buffalo, N. Y. Hydrants. Nos. 144,238–9; June 28; v. 287; p. 775.

Hoyt Metal Company, St. Louis, Mo. Babbitt metal. Nos. 144,122–3; June 21; v. 287; p. 587.

Hunt, C. Howard, Pen Co., Camden, N. J. Metallic pen-points. No. 144,232; June 28; v. 287; p. 775.

Hunter, H. B., Co., Inc., Norfolk, Va. Syrups for food products, canned fruits, bouillons, &c. No. 143,648; June 7; v. 287; p. 184.

Hygrade Knitting Co., Inc., New York, N. Y. Knitted articles of wearing-apparel. No. 144,320; June 28; v. 287; p. 781.

Ideal Hosiery Mills, Maryville, Tenn. Hosiery. No. 143,853; June 14; v. 287; p. 400.

Imperial Pharmaceutical Company, New York, N. Y. Tonic for hair and scalp, dandruff-remover, and germicide. No. 144,188; June 28; v. 287; p. 774.

International Company, The, Baltimore, Md. Fruit emulsions, paste, pie-fillers, &c. No. 143,649; June 7; v. 287; p. 184.

International Company, The, Baltimore, Md. Coloring-powders for foods. No. 143,650; June 7; v. 287; p. 184.

International Linen Company, Wilmington, Del.; Detroit, Mich., and Boston, Mass. Linen thread. No. 144,189; June 28; v. 287; p. 774.

International Shoe Co., St. Louis, Mo. Shoes made of leather. No. 143,651; June 7; v. 287; p. 184.

Iowa Grain & Produce Co., Burlington, Iowa. Butter. No. 143,652; June 7; v. 287; p. 184.

Ivy Corset Company, Worcester, Mass. Corsets, brassières, bust-supporters, garters, bandeaux, corset-waists. No. 143,653; June 7; v. 287; p. 185.

Jacob, H., & Sons, Inc., New York, N. Y. Veils and veilings and nettings in the piece. No. 143,983; June 21; v. 287; p. 580.

Jefferson Union Company, Lexington, Mass. Metal pipe joints or couplings. Nos. 144,124–5; June 21; v. 287; p. 588.

Jennings, Benjamin P., Chicago, Ill. Preparation for shampooing, washing, and preserving the health and color of the hair. No. 143,984; June 21; v. 287; p. 580.

Jobbers Overall Co. Inc., Lynchburg, Va. Overalls for children. No. 143,654; June 7; v. 287; p. 185.

Johnson Cowdin & Company, Inc., New York, N. Y. Ribbons and goods in the piece. No. 144,311; June 28; v. 287; p. 780.

Judd, H. L., Company, New York, N. Y. Certain hardware for drapery, furniture, and upholstery. No. 143,985; June 21; v. 287; p. 580.

Kansas Flour Mills Company, The, Sleepy Eye, Minn. Wheat-flour. No. 143,712; June 7; v. 287; p. 186.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Medicinal and pharmaceutical preparations. No. 143,987; June 21; v. 287; p. 580.

Keener Sand & Clay Co., The, Columbus, Ohio. Molding-sand. No. 143,808; June 7; v. 287; p. 191.

Kelso, John R., Trenton, N. J. Brake-lining. No. 143,854; June 14; v. 287; p. 400.

Kendel, C. Edward, Cleveland, Ohio. Lawn-seeds. Nos. 143,809–10; June 7; v. 287; p. 191.

Keystone Die Casting Co., Norristown, Pa. Non-ferrous castings made in permanent molds. Nos. 143,655–6; June 7; v. 287; p. 185.

King Features Syndicate, Inc., New York, N. Y. Series of comic drawings or pictures. Nos. 143,988–9; June 21; v. 287; p. 580.

King, John P., Mfg. Co., Augusta, Ga. Cotton piece goods. No. 143,657; June 7; v. 287; p. 185.

King, John Y., Lansdowne, Pa. Air-feeding devices for coal stoves or furnaces. No. 143,990; June 21; v. 287; p. 580.

King, Louis, Cigar Company, Hartford, Conn. Cigars. No. 143,811; June 7; v. 287; p. 192.

Kinikin, Granville M., Hamilton, Ohio. Eczema-ointment. No. 144,191; June 28; v. 287; p. 774.

Klosterman, Harry B., Cumberland, Md. Yeast. No. 144,321; June 28; v. 287; p. 781.

Knight, Harry V., Chester, S. C. Egg substitute for baking and cooking. No. 143,658; June 7; v. 287; p. 185.

Knight, William T., Jr., Savannah, Ga. Hair-pomade. No. 143,991; June 21; v. 287; p. 580.

Kokomo Specialties Mfg. Co., Kokomo, Ind. Roller-cycle of the scooter type. No. 144,190; June 28; v. 287; p. 774.

Kolb, George O., Hartford, Conn. Bread. No. 143,659; June 7; v. 287; p. 185.

Kollins Chemical Co., Robesonia, Pa. Medicine for kidney, liver, and stomach disorders. No. 143,660; June 7; v. 287; p. 185.

Konski, Mark M., New York, N. Y. Blouses. No. 144,322; June 28; v. 287; p. 781.

Kornbrust, Frederick J., St. Johnsville, N. Y. Musical instruments. No. 143,855; June 14; v. 287; p. 400.

Krohn-Fechheimer Co., Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 144,323; June 28; v. 287; p. 781.

Kurfees, J. F., Paint Company, Louisville, Ky. Mixed and enamel paints, varnish, &c. No. 143,856; June 14; v. 287; p. 400.

Lake Odessa Canning Co., Lake Odessa, Mich. Canned vegetables and canned apples. No. 143,661; June 7; v. 287; p. 185.

Lake Odessa Canning Co., Lake Odessa, Mich. Canned fruits and vegetables. No. 144,324; June 28; v. 287; p. 781.

Lakeside Biscuit Co., The, Toledo, Ohio. Sugar wafers. No. 143,662; June 7; v. 287; p. 185.

Lane, Guy S., Philadelphia, Pa. Automatic oil-cups. No. 143,663; June 7; v. 287; p. 185.

Lang, Gerhard, Buffalo, N. Y. Fresh and cured meats and lard. No. 144,325; June 28; v. 287; p. 781.

Lanpher, Skinner & Company, St. Paul, Minn. Sheep-skin-lined vests. No. 144,326; June 28; v. 287; p. 781.

Laurel Hat Co., New York, N. Y. Ladies' trimmed hats. No. 143,664; June 7; v. 287; p. 185.

Lawrence, David, Inc., Washington, D. C. Newspaper-section. No. 143,992; June 21; v. 287; p. 580.

Lee, L. W., & Co., Tampa, Fla. Fresh citrus fruit. No. 143,665; June 7; v. 287; p. 185.

Lee, Olaf E., Los Angeles, Calif. Medicine used in the treatment of tired and aching feet. No. 143,677; June 7; v. 287; p. 185.

Leighton and Garland, Seattle, Wash. Fireproofing liquids. No. 143,666; June 7; v. 287; p. 185.

Lennox, Elizabeth D., Los Angeles, Calif. Toilet preparation. No. 144,033; June 21; v. 287; p. 581.

Leonard & Barrows, Middleboro and Boston, Mass. Leather boots and shoes. No. 143,667; June 7; v. 287; p. 185.

Le Roy Shirt Co., New York, N. Y. Men's dress-shirts. No. 144,127; June 21; v. 287; p. 588.

Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods made with a cotton warp and a filling of wool. Nos. 143,668–70; June 7; v. 287; p. 185.

Lester Piano Company, Philadelphia, Pa. Pianos and player-pianos. No. 143,857; June 14; v. 287; p. 400.

Levor, Victor, Attica, Ind. Cigars. No. 144,192; June 28; v. 287; p. 774.

Liberty Mills, Nashville, Tenn. Wheat-flour. No. 143,671; June 7; v. 287; p. 185.

Liberty Shirt Mills, Granite Falls, N. C. Work-shirts. No. 143,672; June 7; v. 287; p. 185.

Lifton Mfg. Co., The, New York, N. Y. Brief-cases, music-rolls, portfolios. No. 144,193; June 28; v. 287; p. 774.

Liggett & Myers Tobacco Co., New York, N. Y. Leaf-tobacco. No. 144,240; June 28; v. 287; p. 775.

Limestone Phosphate Company, Jersey City, N. J. Laxatives. No. 144,327; June 28; v. 287; p. 781.

Linderman Steel & Machine Co., Dayton, Ohio. Electric light and power plants. No. 143,673; June 17; v. 287; p. 185.
Listerated Gum Corporation, New York, N. Y. Chewing-gum. No. 143,674; June 7; v. 287; p. 185.
Living Age Company, The, Boston, Mass. Periodical published weekly. No. 143,993; June 21; v. 287; p. 580.
Loeb, Joseph, Company, Cincinnati, Ohio. Women's, misses', and children's hats. No. 143,675; June 7; v. 287; p. 185.
Long, E. M., & Sons, Cadiz, Ohio. Wooden gutters and rubber roofing. No. 143,858; June 14; v. 287; p. 400.
Long Handkerchief Co. Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. No. 143,812; June 7; v. 287; p. 192.
Long Handkerchief Co., Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. No. 143,861; June 14; v. 287; p. 401.
Los Angeles Soap Co., Los Angeles, Calif. Soap. No. 143,813; June 7; v. 287; p. 192.
Ludlum Steel Company, Watervliet, N. Y. Alloy steel, chisel-steel, and alloy chisel-steel. No. 144,194; June 28; v. 287; p. 774.
Luedtke, Edward C., La Porte, Ind. Deodorant. No. 144,195; June 28; v. 287; p. 774.
Luft, Jay H., Hudson, N. Y. Veterinary medicines for lameness, tumefactions, &c. No. 144,034; June 21; v. 287; p. 582.
Lunn & Sweet Company, Auburn, Me. Leather shoes and juliettes. No. 143,676; June 7; v. 287; p. 185.
M & M Company, The, Scranton, Pa. Coats, trousers, vests, and suits for men, women, and children, &c. No. 144,136; June 21; v. 287; p. 589.
McArthur, Harold M., & Co. Limited, Liverpool, England. Bark from which tanning substances or extracts are made. No. 143,994; June 21; v. 287; p. 580.
McCaslin, William E., Cleveland, Ohio. Publication which is published monthly. No. 143,678; June 7; v. 287; p. 185.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolates and candies. No. 144,126; June 21; v. 287; p. 588.
McGinnis, Edward A., Pittsburgh, Pa. Hair-nets. No. 143,995; June 21; v. 287; p. 580.
McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Coats. No. 143,996; June 21; v. 287; p. 580.
McLendon, Abner P., Waco, Tex. Ice-cream. No. 143,719; June 7; v. 287; p. 186.
McMahon, Joseph H., Chicago, Ill. Washing-powder. No. 144,196; June 28; v. 287; p. 774.
McNab Company, The, Bridgeport, Conn. Direction and revolution indicators, revolution-counters, draft-gages, &c. No. 144,129; June 21; v. 287; p. 588.
Mackaywood Company, The, New Rochelle, N. Y. Raw dry milk. No. 143,679; June 7; v. 287; p. 185.
Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. No. 143,680; June 7; v. 287; p. 185.
Macy, R. H., & Co., Inc., New York, N. Y. Men's hats. No. 143,681; June 7; v. 287; p. 185.
Macy, R. H., & Co., Inc., New York, N. Y. Opera and field glasses. Nos. 144,197–8; June 28; v. 287; p. 774.
Magnano, A., Co., Seattle, Wash. Olive-oil. No. 144,328; June 28; v. 287; p. 781.
Makover, Roten & Company, Inc., Baltimore, Md. Men's, youths', and boys' clothing. No. 143,997; June 21; v. 287; p. 580.
Manning, Maxwell & Moore, Inc., New York, N. Y. Cranes. No. 143,998; June 21; v. 287; p. 580.
Markatos, Spiros C., New York, N. Y. Cloth and hat dyes. No. 143,999; June 21; v. 287; p. 580.
Marlborough Coffee Co., Inc., New York, N. Y. Coffee. No. 144,241; June 28; v. 287; p. 775.
Marshall Canning Co., Marshalltown, Iowa. Canned vegetables, kraut, and pork and beans. No. 143,682; June 7; v. 287; p. 185.
Marshall Field & Company, Chicago, Ill. Sheets and pillow-cases. No. 143,814; June 7; v. 287; p. 192.
Marshall Field & Company, Chicago, Ill. Ticking. No. 144,000; June 21; v. 287; p. 580.
Marshall Field & Company, Chicago, Ill. Burlap. No. 144,001; June 21; v. 287; p. 581.
Marshall Field & Company, Chicago, Ill. Cotton-bats. No. 144,002; June 21; v. 287; p. 581.
Marshall Field & Company, Chicago, Ill. Sheets and pillow-cases. Nos. 144,003–4; June 21; v. 287; p. 581.
Marshall Field & Company, Chicago, Ill. Piece goods—namely, drill. No. 144,130; June 21; v. 287; p. 588.
Marshall Field & Company, Chicago, Ill. Bedspreads. No. 144,131; June 21; v. 287; p. 588.
Marshall Field & Company, Chicago, Ill. Knitting-needles for hand use. No. 144,199; June 28; v. 287; p. 774.
Meachem Gear Corporation, The, Syracuse, N. Y. Cut-metal gears, rawhide gears and pinions, &c. No. 144,132; June 21; v. 287; p. 588.
Mellicke Calculator Company, Portland, Me., and Chicago, Ill. Pay-roll calculators having hinged cards. No. 144,133; June 21; v. 287; p. 588.
Menley & James, Limited, New York, N. Y. Prophylactic ointment. No. 143,683; June 7; v. 287; p. 185.
Merchant & Evans Company, Philadelphia, Pa. Fire doors and shutters. No. 143,684; June 7; v. 287; p. 185.
Metaloid Company, Bayonne, N. J. Powder and liquid used in repairing leaks or cracks. No. 143,815; June 7; v. 287; p. 192.
Michalitschke Bros. & Co. Inc., San Francisco, Calif. Cigarette-papers. No. 143,816; June 7; v. 286; p. 192.
Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods and combinations thereof. No. 144,200; June 28; v. 287. p. 774.
Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods, &c. No. 144,242; June 28; v. 287; p. 775.
Mikkelsen, Lars, Seattle, Wash. Fish, canned and cured. No. 143,685; June 7; v. 287; p. 185.
Miller & Gleason, Newport News, Va. Leather belts for supporting wearing-apparel. No. 144,201; June 28; v. 287; p. 774.
Miller Pasteurizing Machine Company, The, (now by change of name The H. H. Miller Industries Company,) Canton, Ohio. Certain dairy machinery. Nos. 144,134–5; June 21; v. 287; pp. 588–9.
Millikin, Hugh E., Toronto, Ontario, Canada. Books, charts, &c., connected with a system for teaching music. No. 144,606; June 21; v. 287; p. 581.
Millinery Products Company, Chicago, Ill. Boutonnières and corsage-bouquets. No. 144,007; June 21; v. 287; p. 581.
Mills Corset Company, Chicago, Ill. Corsets. No. 143,686; June 7; v. 287; p. 185.
Mills, F. S., Co. Inc., Gloversville, N. Y. Tobacco-pouches. No. 143,817; June 7; v. 287; p. 192.
Milwaukee Label & Seal Co., Milwaukee, Wis. Embossed gold seals. No. 144,008; June 21; v. 287; p. 581.
Milwaukee Steel Foundry Company, Milwaukee, Wis. Metal castings, and specifically castings made of steel and iron and alloys of steel and iron. No. 144,202; June 28; v. 287; p. 774.
Miracle Manufacturing Company, Detroit, Mich. Non-saponaceous washing fluid. No. 144,203; June 28; v. 287; p. 774.
Mobery, William H., Owensboro, Ky. Smoking-tobacco, natural twist, and cigarettes. No. 144,204; June 28; v. 287; p. 774.
Moe, Blanche W., Chicago, Ill. Face-powders. No. 144,009; June 21; v. 287; p. 581.
Moore Company, The, Muncie, Ind. Wire fabric for supporting mattresses and cushions. No. 144,205; June 28; v. 287; p. 774.
Moore, E. J., Sons, Inc., New York, N. Y. Preventive for venereal diseases. No. 144,206; June 28; v. 287; p. 774.
Moore Oil Refining Company, The, Cincinnati, Ohio. Oil emulsion used for the treatment of cotton. No. 143,688; June 7; v. 287; p. 186.
Moran, Mueller & Morris, Philadelphia, Pa. Steel restoring and hardening compound. No. 143,689; June 7; v. 287; p. 186.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit jackets, sweaters, and coats. No. 142,819; June 7; v. 287; p. 192.
Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit jackets. No. 143,820; June 7; v. 287; p. 192.
Morley Button Manufacturing Company, Boston, Mass. Buttons. No. 144,010; June 21; v. 287; p. 581.
Mosley, Virginia, Des Moines, Iowa. Hair-tonics, either liquid or salve. No. 143,859; June 14; v. 287; p. 400.
Motorcraft Publishing Company, Oakland, Calif. Monthly publication. No. 144,011; June 21; v. 287; p. 581.
Mt. Vernon Furnace & Mfg. Co., Mount Vernon, Ill. Warm air furnaces, (pipe and pipeless.) No. 144,036; June 21; v. 287; p. 582.
Mulford, H. K., Co., Philadelphia, Pa. Medicinal and pharmaceutical compounds. No. 144,013; June 21; v. 287; p. 581.
Mulhens & Kropff, Incorporated, New York, N. Y. Toilet preparations. No. 144,207; June 28; v. 287; p. 774.
Mull, Leo B., Co., The, Cedar Rapids, Iowa. Crushed oyster and clam shells for poultry feed. No. 143,690; June 7; v. 287; p. 186.
Muller-Sealey Company, Inc., New York, N. Y. Flower-bulbs and vegetable, farm, and flower seeds. No. 144,012; June 21; v. 287; p. 581.
Multi Products Company, Detroit, Mich. Washing compounds. No. 144,208; June 28; v. 287; p. 774.
Munn, R. J., & Bros., Boston, Mass. Artificial flowers. No. 144,037; June 21; v. 287; p. 582.
Munter, Charles, New York, N. Y. Soap. No. 144,209; June 28; v. 287; p. 774.
Murray, Ethel F., Springfield, Mass. Children's rompers. No. 144,014; June 21; v. 287; p. 581.
Mutual Homes Society, The, Washington, D. C. Name of a monthly journal issued by said society. No. 144,015; June 21; v. 287; p. 581.
Myers, Ham & Co., New York, N. Y. Clothing. No. 144,016; June 21; v. 287; p. 581.
Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 143,691; June 7; v. 287; p. 186.
Natelson, Meyer, New York, N. Y. Pajamas and night-shirts. No. 143,692; June 7; v. 287; p. 186.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, intermediates, and certified food-colors. Nos. 144,243–50; June 28; v. 287; p. 775.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 143,693; June 7; v. 287; p. 186.
National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 143,694; June 7; v. 287; p. 186.

National Mineral Products Co., Chicago, Ill. Molding material—namely, parting-sand for foundry use in molding. No. 144,035; June 21; v. 287; p. 582.
National Products Company, Cedar Rapids, Iowa. Malted syrup for table use. No. 143,695; June 7; v. 287; p. 186.
National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 144,251; June 28; v. 287; p. 776.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. No. 143,860; June 14; v. 287; p. 401.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. Nos. 143,862–3; June 14; v. 287; p. 401.
Neben Manufacturing Company, Inc., New York, N. Y. Table-napkins, table-covers, and doilies made of paper. No. 143,696; June 7; v. 287; p. 186.
Neenah Paper Co., Neenah, Wis. Bond-paper for ledger, drawing, writing, and wrapping purposes. No. 143,697; June 7; v. 287; p. 186.
Neenah Shoe Company, Neenah, Wis. Boys' shoes made wholly or in part of leather and cloth. No. 143,698; June 7; v. 287; p. 186.
New England Bedding Company, Boston, Mass. Couch-hammocks. No. 144,252; June 28; v. 287; p. 776.
New Jersey Optical Co., Newark, N. J. Spectacle and eyeglass frames and mountings. No. 144,253; June 28; v. 287; p. 776.
New Jersey Zinc Company, The, Newark and Franklin borough, N. J. Slab-zinc. No. 144,137; June 21; v. 287; p. 589.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hand-mirrors and picture-frames. No. 143,818; June 7; v. 287; p. 192.
Ney, Jos., & Sons Co., Harrisonburg, Va. Suits, coats, hats, and wraps for ladies. No. 143,699; June 7; v. 287; p. 186.
Nicholson File Company, Providence, R. I. Files and rasps. No. 144,017; June 21; v. 287; p. 581.
Nickel-Alloys Company, Pittsburgh, Pa. Nickel sheets, tubes, rods, wire, billets, slabs, and strips. No. 144,254; June 28; v. 287; p. 776.
Noonan, T., & Sons Company, Boston, Mass. Hair-tonic. No. 144,329; June 28; v. 287; p. 782.
Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 143,821; June 7; v. 287; p. 193.
Northwestern Distributing Co., Billings, Mont. Roasted coffee. Nos. 143,700–1; June 7; v. 287; p. 186.
O'Bannon Corporation, Boston, Mass. Cotton piece goods with rubberized coating. No. 143,822; June 7; v. 287; p. 193.
O'Connell-Simmons Co. Inc., New York, N. Y. Cotton piece goods. No. 144,018; June 21; v. 287; p. 581.
O'Dell, Stephen O., Detroit, Mich. Salves for boils, carbuncles, felons, &c. No. 144,255; June 28; v. 287; p. 776.
Ohio Brass Company, The, Mansfield, Ohio. Ears, clamps, and hangers for suspending trolley-wires, &c. No. 144,138; June 21; v. 287; p. 589.
Oil Well Supply Company, Pittsburgh, Pa. Oil-well machinery, tools, and accessories. No. 144,139; June 21; v. 287; p. 589.
O'Neill, F. J., Medicine Co., St. Louis, Mo. Medicinal preparation. No. 143,864; June 14; v. 287; p. 401.
Oppenheim, Oberndorf & Co. Inc., Baltimore, Md. Sleeping-garments. Nos. 143,702–3; June 7; v. 287; p. 186.
Ormiston, Harry O., London, England. Aluminium-solder. No. 144,019; June 21; v. 287; p. 581.
O'Sullivan Rubbery Company, Inc., New York, N. Y. Rubber soles and heels. No. 144,140; June 21; v. 287; p. 589.
Ottenstein, H. & I., New York, N. Y. Ladies' coats, suits, and skirts. No. 144,021; June 21; v. 287; p. 581.
Otto, Robert, Berlin, Germany. Cloth garment and trousers hangers, garment stretchers, and supports, &c. No. 144,020; June 21; v. 287; p. 581.
Owl Drug Company, The, San Francisco, Calif. Medicinal ointments. No. 143,865; June 14; v. 287; p. 401.
P-R Engine Company, The, Baltimore, Md., and New York, N. Y. Oil-engines. No. 144,142; June 21; v. 287; p. 589.
Pacific Coast Syrup Co., San Francisco, Calif. Cane and maple syrup. No. 143,704; June 7; v. 287; p. 186.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 143,823–31; June 7; v. 287; pp. 193–4.
Packard Engineering Company, The, Cleveland, Ohio, assignor to George W. Smith & Company, Inc., Philadelphia, Pa. Vehicle-wheels. No. 143,705; June 7; v. 287; p. 186.
Page Belting Company, Concord, N. H. Leather fillet. No 143,706; June 7; v. 287; p. 186.
Pakos, Joseph, Muscatine, Iowa. Preparation for coughs, colds, bronchitis, pneumonia, &c. No. 144,022; June 21; v. 287; p. 581.
Pannier Bros. Stamp Co., Pittsburgh, Pa. Marking-dies. No. 143,707; June 7; v. 287; p. 186.
Papiewski, W., Medical Tea Company, Chicago, Ill. Tea. No. 144,257; June 28; v. 287; p. 776.
Paraffine Companies, Inc., The, San Francisco, Calif. Floor-covering. No. 144,023; June 21; v. 287; p. 581.
Parfumerie Lournay, Inc., New York, N. Y. Soap. No. 143,709; June 7; v. 287; p. 186.
Patrick, F. E., Young Co., Richmond, Va. Hams, bacon, and lard. No. 143,708; June 7; v. 287; p. 186.
Pedigo-Weber Shoe Co., St. Louis, Mo. Shoes. No. 144,258; June 28; v. 287; p. 776.
Peirce, O. W., Company, La Fayette, Ind. Coffee. No. 143,867; June 14; v. 287; p. 401.
Peiser, S. V., & Company, San Francisco, Calif. Grape-syrup used for food purposes. No. 143,710; June 7; v. 287; p. 186.
Penick & Ford, Ltd., Incorporated, New Orleans, La. Gloss-starch. No. 143,866; June 14; v. 287; p. 401.
Penn Rivet Corporation, Philadelphia, Pa. Hosiery. No. 143,711; June 7; v. 287; p. 186.
Penney, J. C., Company, Salt Lake City, Utah. Articles of clothing. No. 144,024; June 21; v. 287; p. 581.
Penton Publishing Company, The, Cleveland, Ohio. Daily trade publication. No. 144,025; June 21; v. 287; p. 581.
Perfect, Fred H., Columbus, Ohio. Soldering and tinning flux. No. 144,038; June 21; v. 287; p. 582.
Perfumer Publishing Company, New York, N. Y. Monthly publication. No. 143,713; June 7; v. 287; p. 186.
Perkins, Goodwin Co., New York, N. Y. Print-paper. No. 143,714; June 7; v. 287; p. 186.
Perry Mason Company, Boston, Mass. Story-papers and periodical magazines. No. 144,005; June 21; v. 287; p. 581.
Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk chocolate and cocoa. No. 144,141; June 21; v. 287; p. 589.
Pierce, S. S., Co., Boston, Mass. Hair-nets. No. 143,715; June 7; v. 287; p. 186.
Pines Manufacturing Company, Chicago, Ill. Automobile-radiator shutters. No. 143,868; June 14; v. 287; p. 401.
Pirodent Corporation, Detroit, Mich. Chewing-gum. No. 143,716; June 7; v. 287; p. 186.
Platin Bros. Shoe Co., Boston, Mass. Boots and shoes made of leather. No. 143,717; June 7; v. 287; p. 186.
Poke, C. B., Mfg. Co., Kansas City, Mo. Cattle-pokes. Nos. 144,259–61; June 28; v. 287; p. 776.
Polan, Katz & Co., Baltimore, Md. Parasols and umbrellas. No. 144,026; June 21; v. 287; p. 581.
Pontin, Elmer, Long Island City, N. Y. Motion-picture cameras, combined motion-picture cameras and projectors, and motion-picture-projecting machines. No. 144,027; June 21; v. 287; p. 581.
Prasse Lumber Company, The, Cleveland, Ohio. Lumber. No. 143,832; June 7; v. 287; p. 194.
Precision Instrument Company, Newark, N. J. Fluid-pressure gages. Nos. 144,028–31; June 21; v. 287; p. 581.
Priscilla Company, The, Boston, Mass. Certain named furniture-covers, table-scarfs, handkerchiefs, &c. No. 144,032; June 21; v. 287; p. 581.
Pro-Cide Company, The, Wilkes-Barre, Pa. Mouth-washes. No. 143,718; June 7; v. 287; p. 186.
Prosperity Company, Inc., The, assignor to N. Braun, Syracuse, N. Y. Knitted cotton padding. No. 143,720; June 7; v. 287; p. 186.
Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Wheelbarrows. No. 143,833; June 7; v. 287; p. 194.
R-W Company, The, Chicago, Ill. Air-washers. No. 143,736; June 7; v. 287; p. 187.
Randall, A. I., Inc., Rockland, Mass. Paper and stationery. No. 143,869; June 14; v. 287; p. 401.
Ransbottom Brothers Pottery Company, The, Roseville, Ohio. Stoneware and pottery. No. 144,262; June 28; v. 287; p. 776.
Rath Manufacturing Company, The, Philadelphia, Pa. Chocolate and vanilla corn-starch puddings. No. 143,721; June 7; v. 287; p. 186.
Rau Fastener Co., New York, N. Y. Snap-fasteners for gloves, caps, trunks, suspenders, pocketbooks, &c. No. 144,039; June 21; v. 287; p. 582.
Raw-Zema Co., Fremont, Nebr. Ointment for treatment of eczema and all skin diseases. No. 143,722; June 7; v. 287; p. 186.
Redlands Heights Orchards, Ltd., Redlands, Calif. Fresh citrus fruits. No. 143,723; June 7; v. 287; p. 187.
Redwine, William H., Pittsburgh, Pa. Certain articles of clothing. No. 144,040; June 21; v. 287; p. 582.
Reedley Canning Co., Reedley, Calif. Canned fruits. Nos. 143,724–6; June 7; v. 287; p. 187.
Refinite Company, The, Omaha, Nebr. House organ published at intervals. No. 144,041; June 21; v. 287; p. 582.
Rebo-Drug Manufacturing Company, Bartow, Fla. Medicinal preparation. No. 143,727; June 7; v. 287; p. 187.
Reichman & Faust, New York, N. Y. Hair-nets. No. 144,042; June 21; v. 287; p. 582.
Reitz-Farrar Company, Louisville, Ky., and Chicago, Ill. Dental supplies. Nos. 144,263–4; June 28; v. 287; p. 776.
Renneckar, Clarence E., Wilmette, Ill. Fluid for removing spots, cleaning wool, cotton, silk, and leather. No. 144,265; June 28; v. 287; p. 776.
Reno, H. O., Company, The, Chicago, Ill. Monthly periodical. No. 144,043; June 21; v. 287; p. 582.
Retlaw Chemical Co., Inc., New York, N. Y. Carbon-removers in the nature of chemical preparations. No. 144,044; June 21; v. 287; p. 582.
Rex Leather Goods Corporation, New York, N. Y. Leather brief-cases, music-rolls, valises, portfolios, and Boston bags. No. 144,266; June 28; v. 287; p. 776.
Reynolds, S. A., Kansas City, Mo. Bakery products. No. 143,729; June 7; v. 287; p. 187.

Rice-Stix Dry Goods Company, St. Louis, Mo. Cambrics in the piece. No. 143,730; June 7; v. 287; p. 187.
Richards, James E., Company, The, Dayton, Ohio. White duck and drill clothing. No. 144,267; June 28; v. 287; p. 776.
Ridge Mills Inc., Gastonia, N. C. Cotton yarns. No. 144,045; June 21; v. 287; p. 582.
Robbins & Myers Company, The, Springfield, Ohio. Electric fans, motors, and generators. No. 143,870; June 14; v. 287; p. 402.
Robins, Bunyan, Richmond, Va. Hair-dressing of the petroleum-jelly type. No. 144,046; June 21; v. 287; p. 582.
Roché, Georges, administrator. (See Etablissements Poulenc Frères.)
Rohe & Brother, New York, N. Y. Smoked meats. No. 143,731; June 7; v. 287; p. 187.
Rosenau Bros. Inc., Philadelphia, Pa. Children's dresses, rompers, and suits. No. 143,732; June 7; v. 287; p. 187.
Rosenberg, D., & Co., New York, N. Y. Ladies' and misses' underwear of textile fabric. No. 143,734; June 7; v. 287; p. 187.
Rosenbloom, Louis, Rockland, Me. Candy. No. 143,733; June 7; v. 287; p. 187.
Rosenstein, Hugo, New York, N. Y. Toy airplanes. No. 144,269; June 28; v. 287; p. 776.
Rosenthal, A. S., Company, New York, N. Y. Silk piece goods. No. 144,268; June 28; v. 287; p. 776.
Ross, Alexander, Wheeling, W. Va. Medicinal preparation. No. 144,270; June 28; v. 287; p. 776.
Russell Manufacturing Company, The, Middletown, Conn. Spindle-bandings, webs, clutch and cone facings. No. 143,735; June 7; v. 287; p. 187.
Russell Manufacturing Company, The, Middletown, Conn. Elastic webbings. No. 144,048; June 21; v. 287; p. 582.
Rycroft, W. W., & Co., New York, N. Y. Cotton-warp and wool dress piece goods. No. 144,047; June 21; v. 287; p. 582.
Saenger Brothers, Shreveport, La. Tooth-paste. No. 144,049; June 21; v. 287; p. 582.
Safety Fire Extinguisher Co., The, New York, N. Y. Mechanical fire-extinguisher. No. 144,143; June 21; v. 287; p. 590.
Salembier & Clay, Inc., New York, N. Y. Satin in the piece. No. 144,050; June 21; v. 287; p. 582.
Samuel Gabriel Sons & Company, New York, N. Y. Toy picture-books of paper. No. 144,118; June 21; v. 287; p. 587.
San Antonio Drug Co., San Antonio, Tex. Pumice, whale-oil soap, metal-polish, &c. No. 144,271; June 28; v. 287; p. 776.
San Marcos Cotton Breeding Farms, San Marcos, Tex. Cotton-seed for planting purposes. No. 143,737; June 7; v. 287; p. 187.
Sasseen, John H., assignor to United Food Products Company, Houston, Tex. Dressings or sauces for ices, puddings, &c., and fillers for confectionery, &c. No. 143,738; June 7; v. 287; p. 187.
Sawyer, F. V., Wichita, Kans. Remedy for the treatment of rheumatism. No. 144,272; June 28; v. 287; p. 776.
Schiang & Co., Brooklyn, N. Y. Serge piece goods. No. 143,739; June 7, v. 287; p. 187.
Schmid, Julius, Incorporated, New York, N. Y. Eyebrow and eyelid preparations. No. 143,740; June 7; v. 287; p. 187.
Schrodt, Jack P., Memphis, Tenn. Liquid preparation, being a remedy for indigestion and dyspepsia. No. 144,273; June 28; v. 287; p. 776.
Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 144,330; June 28; v. 287; p. 782.
Schweppes, Limited, London, England. Mineral waters. No. 143,741; June 7; v. 287; p. 187.
Scotsmoor Company, Johnstown, N. Y. Clothing. Nos. 144,274–5; June 28; v. 287; p. 776.
Sears, Roebuck and Co., Chicago, Ill. Cotton piece goods—namely, romper-cloth. No. 143,742; June 7; v. 287; p. 187.
Sears, Roebuck and Co., Chicago, Ill. Sweater-coats. No. 143,743; June 7; v. 287; p. 187.
Sears, Roebuck & Company, Chicago, Ill. Gas, coal, and wood heating and cooking stoves. No. 144,051; June 21; v. 287; p. 582.
Sears, Roebuck and Co., Chicago, Ill. Cotton batiste in the piece. No. 144,052; June 21; v. 287; p. 582.
Sears, Roebuck and Co., Chicago, Ill. Toilet and laundry soap and soap flakes. No. 144,276; June 28; v. 287; p. 776.
Seeds, John A., Jr., Philadelphia, Pa. Butter. No. 143,744; June 7; v. 287; p. 187.
Self-locking Carton Company. (See Steudel, Erich, assignor.)
Seligman, N., Merchandise Co., Inc., New York, N. Y. Hair-nets. No. 143,745; June 7; v. 287; p. 187.
Shannon, Meil D., Sacramento, Calif. Ground or flooring wearing-surface compound. No. 143,746; June 7; v. 287; p. 187.
Shapleigh Hardware Company, St. Louis, Mo. Catalogue published from time to time. No. 144,277; June 28; v. 287; p. 776.
Sharp & Dohme, Baltimore, Md. Liquid medicinal antiseptic for hypodermic medication. No. 144,053; June 21; v. 287; p. 582.
Shouvlin, Patrick J., Springfield, Ohio. Internal-combustion engines, portable and stationary and combined with pumps; also gas or vacuum pumps. No. 144,278; June 28; v. 287; p. 776.
Sibson & Stern, Inc., Philadelphia, Pa. Braid. No. 144,144; June 21; v. 287; p. 590.
Silberman, H. J., & Co., New York, N. Y. Neckties and cravats. No. 143,747; June 7; v. 287; p. 187.
Simmons Hardware Company, St. Louis, Mo. Golf-clubs, fishing-rods, reels, minnow seines and nets, &c. No. 144,331; June 28; v. 287; p. 782.
Simon, Franklin & Co. Inc., New York, N. Y. Certain articles of clothing. No. 144,055; June 21; v. 287; p. 582.
Simon, R. & H., Co., Union, N. J. Silk piece goods. No. 144,056; June 21; v. 287; p. 582.
Simplex Steel Stamping and Manufacturing Company, St. Louis, Mo. Velocipedes. No. 143,834; June 7; v. 287; p. 194.
Smith-Faus Drug Co., Salt Lake City, Utah. Chemicals, medicines, and pharmaceutical preparations. No. 143,871; June 14; v. 287; p. 402.
Smith-Faus Drug Co., Salt Lake City, Utah. Mustard ointment. No. 144,279; June 28; v. 287; p. 776.
Smith, George W., & Company. (See Packard Engineering Company, The, assignor.)
Smith, H. D., & Company, The, Plantsville, Conn. Certain hand-tools. No. 144,145; June 21; v. 287; p. 590.
Smith, H. D., & Company, The, Plantsville, Conn. Pliers. No. 144,146; June 21; v. 287; p. 590.
Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, N. J. Box-openers, glass-cutters, nail-pullers, and nail-puller combination-tools. Nos. 144,057–8; June 21; v. 287; p. 582.
Smith, Herbert W., Washington, D. C. Bath-salts. No. 144,280; June 28; v. 287; p. 776.
Smythe, J. L. N., Company, The, Philadelphia, Pa. Paper. No. 144,281; June 28; v. 287; p. 777.
Societe Industrielle De Celluloid, Paris, France. Fans for personal use. No. 144,059; June 21; v. 287; p. 582.
Soter, F. & E., Corp., New York, N. Y. Cigarettes. No. 144,282; June 28; v. 287; p. 777.
Southern Export Corporation, New York, N. Y. Hosiery. No. 144,060; June 21; v. 287; p. 582.
Speedaumatic Company, The, Chicago, Ill. Folding, wrapping, addressing, and mailing machines, &c. No. 144,061; June 21; v. 287; p. 582.
Spice Mill Publishing Co., The, New York, N. Y. Monthly journal. Nos. 143,748–9; June 7; 287; p. 187.
Standard Milling Company of New York, Inc., New York, N. Y. Wheat-flour. No. 144,283; June 28; v. 287; p. 777.
Standard Shortwriter Sales Company, Chicago, Ill. Typewriting-machines. No. 144,147; June 21; v. 287; p. 590.
Starchroom Publication Company, Cincinnati, Ohio. Weekly periodicals. No. 144,062; June 21; v. 287; p. 582.
Stearns' Electric Paste Co., Chicago, Ill. Rat and roach paste. No. 144,063; June 21; v. 287; p. 582.
Stephens & Wilkes, Inc., New York, N. Y. Oiled cloth. No. 144,064; June 21; v. 287; p. 582.
Sterne, Abram F., Wilkes-Barre, Pa. Certain articles of clothing. No. 144,065; June 21; v. 287; p. 582.
Steudel, Erich, assignor to Self-locking Carton Company, Chicago, Ill. Bands for wrapping cake and pie. No. 143,872; June 14; v. 287; p. 402.
Streeton, J. W., Company, New York, N. Y. Ribbons—namely, silk and part-silk ribbons. No. 143,751; June 7; v. 287; p. 187.
Sudless Products Company, The, Cleveland, Ohio. Water-softener. No. 143,752; June 7; v. 287; p. 187.
Sultzer, L. D., Co., Inc., New York, N. Y. Ladies' hats. No. 143,753; June 7; v. 287; p. 187.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. No. 143,754; June 7; v. 287; p. 187.
Swann, E. J., Boston, Mass. Medicinal preparation. No. 144,332; June 28; v. 287; p. 782.
Sweet Candy Co., Salt Lake City, Utah. Candy. No. 144,148; June 21; v. 287; p. 590.
Talbot Packing & Preserving Co., Easton, Md. Canned fruits and vegetables. No. 143,755; June 7; v. 287; p. 187.
Tanty, Inc., New York, N. Y. Toilet preparations. No. 144,284; June 28; v. 287; p. 777.
Tate Manufacturing Company, Boston, Mass. Dust-cloths. 144,285; June 28; v. 287; p. 777.
Taylor's, Santa Ana, Calif. Citrous fruit confection. No. 143,756; June 7; v. 287; p. 188.
Tedford, R. A., & Company, Wenatchee, Wash. Fresh apples. No. 143,757; June 7; v. 287; p. 188.
Terry, Herbert, & Sons, Limited, Redditch, England. Hardware. No. 144,066; June 21; v. 287; p. 582.
Teter, Leo, Chicago, Ill. Boots and shoes. No. 144,067; June 21; v. 287; p. 583.
Textile Manufactures Alliance, Inc., The, New York, N. Y. Bedspreads, blankets, textile piece goods, &c. No. 144,068; June 21; v. 287; p. 583.
Textile Products Manufacturing Company, St. Louis, Mo. Overalls, work shirts and pants, coats. No. 143,835; June 7; v. 287; p. 194.
Textile Service Co. Inc., New York, N. Y. Cotton piece goods. No. 144,069; June 21; v. 287; p. 583.

Thomas, Nicholas L., O'Fallon, Ill. Preparation for the treatment of skin. No. 143,873; June 14; v. 287; p. 402.
Thoroughbred Record Company, Inc., The, Lexington, Ky. Weekly periodical. No. 144,070; June 21; v. 287; p. 583.
Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Gasolene, kerosene, naphtha, lubricating-oils, &c. No. 143,758; June 7; v. 287; p. 188.
Tillamook County Creamery Association, Tillamook, Oreg. Cheese. No. 143,836; June 7; v. 287; p. 194.
Timken Roller Bearing Company, Canton, Ohio. Roller-bearings and parts thereof. No. 144,149; June 21; v. 287; p. 590.
Townley, Edmond A., New York, N. Y. Books, magazines, pamphlets, &c. No. 144,071; June 21; v. 287; p. 583.
Townsend, Ernest J., East Lynn, Mass. Medicinal and toilet preparation. No. 144,286; June 28; v. 287; p. 777.
Trainer, Joseph C., Philadelphia, Pa. Medicinal tonic for building up run-down systems, relieving constipation, and aiding digestion. No. 144,072; June 21; v. 287; p. 583.
Traitel Marble Co., The, Long Island City, N. Y. Certain named metal strips. No. 143,837; June 7; v. 287; p. 194.
Truitt Brothers, Inc., Binghamton, N. Y. Shoes made of canvas and leather and combination of both. No. 143,759; June 7; v. 287; p. 188.
Türk Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Thread and yarn. No. 144,073; June 21; v. 287; p. 583.
Turn-O-Stop Manufacturing Corporation, New York, N. Y. Traffic-signals for vehicles. No. 144,074; June 21; v. 287; p. 583.
Turner & Walls, New York, N. Y. Cotton piece goods. No. 143,875; June 14; v. 287; p. 402.
Tuskeloid Company, Inc., New York, N. Y. Combs, pin-cushions, and shoe-horns. No. 144,075; June 21; v. 287; p. 583.
Tuskeloid Company, Inc., New York, N. Y. Toilet articles. Nos. 144,287–8; June 28; v. 287; p. 777.
Twin City Mfg. Co., Inc., Norfolk, Va. Bluing. No. 143,760; June 7; v. 287; p. 188.
Ultra-Gas Manufacturing Company, Richmond, Ind. Chemical preparation for use as a fuel-intensifier and carbon-remover. No. 144,077; June 21; v. 287; p. 583.
United Drug Company, Boston, Mass. Razors and pocket-knives. No. 143,762; June 7; v. 287; p. 188.
United Food Products Company. (See Sasseen, John H., assignor.)
United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 143,876; June 14; v. 287; p. 402.
United States Tire Company, New York, N. Y. Tire-patches made of fabric and rubber. No. 143,838; June 7; v. 287; p. 194.
Universal Tide Power Company, Boston, Mass. Motors actuated by the power of the tide. No. 144,150; June 21; v. 287; p. 590.
Uzum Products Co., Inc., New York, N. Y. Waterless soap. No. 144,289; June 28; v. 287; p. 777.
Vail Hat Co. Inc., New York, N. Y. Ladies' and children's hats. No. 144,078; June 21; v. 287; p. 583.
Vee Gee Mfg. Co., Omaha, Nebr. Chemical gasolene-saver in tablet form. No. 144,290; June 28; v. 287; p. 777.
Veronica Medicinal Springs Water Co., Santa Barbara, Calif. Mineral waters. No. 144,291; June 28; v. 287; p. 777.
Victor Manufacturing Company, Dayton, Ohio. Wrenches. No. 144,079; June 21; v. 287; p. 583.
Vogel Bros. Hat Co., New York, N. Y. Trimmed and untrimmed hats for women and children. No. 143,763; June 7; v. 287; p. 188.
Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y. Shingles, roofing tile and slabs, composition roofing, and roofing cement. No. 143,764; June 7; v. 287; p. 188.
Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y. Shingles, roofing, tile and slabs, and roofing-cement. Nos. 144,292–3; June 28; v. 287; p. 777.
Wadsworth, George W., Chicago, Ill. Weekly insurance publication. No. 144,080; June 21; v. 287; p. 583.
Walker Brothers Company, Syracuse, N. Y. Dish-washing machines. No. 144,081; June 21; v. 287; p. 583.
Walker, J. Murray, Boston, Mass. House organ published monthly. No. 144,082; June 21; v. 287; p. 583.
Walker, W. & F., Limited, Liverpool, England. Common soap and cleaning preparations for fabrics. No. 144,294; June 28; v. 287; p. 777.
Waller, Carrie, North Birmingham, Ala. Hair tonic and dressing, dandruff-extractor, &c. No. 143,765; June 7; v. 287; p. 188.
Wallace, R., & Sons, Mfg. Co., The, Wallingford, Conn. Silver-plated flat and hollow ware. No. 143,877; June 14; v. 287; p. 402.
Washington Grain & Milling Co., Reardon, Wash. Wheat-flour. No. 143,767; June 7; v. 287; p. 188.
Webster, Fred, Paper Company, Holyoke, Mass. Paper and stationery. No. 144,151; June 21; v. 287; p. 590.
Wechsler Barber Silk Co. Inc., New York, N. Y. Fabrics in the piece of silk and silk mixtures. Nos. 144,083–4; June 21; v. 287; p. 583.
Welchsel Laboratories, Dallas, Tex. Talcum powder, cold-cream, tooth-paste, and toilet water. No. 143,768; June 7; v. 287; p. 188.
Weise, Albert F., Schenectady, N. Y. Polish for automobiles, furniture, &c. No. 143,769; June 4; v. 287; p. 188.
Weiss, Benjamin, New York, N. Y. Children's underwear-garments. No. 143,770; June 7; v. 287; p. 188.
Weitzel Lumber Company, Philadelphia, Pa. Lumber. No. 143,774; June 7; v. 287; p. 188.
Welch, Jas. A., Buffalo, N. Y. General tonic. No. 144,085; June 21; v. 287; p. 583.
Western Bottle Manufacturing Company, Chicago, Ill. Hair-nets. No. 143,771; June 7; v. 287; p. 188.
Western Bottle Manufacturing Company, Chicago, Ill. Combs. No. 144,152; June 21; v. 287; p. 590.
Western Bottle Manufacturing Company, Chicago, Ill. Tooth, hair, cloth, hat, nail, and face brushes. Nos. 144,295–9; June 28; v. 287; p. 777.
Western Dry Goods Co., Seattle, Wash. Blankets, quilts, bedspreads, comforts, cotton and wool piece goods, and handkerchiefs. No. 143,772; June 7; v. 287; p. 188.
Western Dry Goods Co., Seattle, Wash. Undergarments in cotton, silk, and knitted fabrics. No. 144,296; June 28; v. 287; p. 777.
Western Industries Co., San Francisco, Calif. Denatured alcohols and potash, soda, barium, and chrome salts. No. 144,086; June 21; v. 287; p. 583.
Western Sierra Products Company, Pacoima, Calif. Cleaning-polish for metal and glass. No. 143,775; June 7; v. 287; p. 188.
Western Vulcanizer Manufacturing Company, Chicago, Ill. Preparation to prevent tires from sticking to molds. No. 144,153; June 21; v. 287; p. 590.
Wharton, William, Jr., & Co., Incorporated, Easton, Pa. Gas cylinders or bottles. No. 144,298; June 28; v. 287; p. 777.
Whitall Tatum Company, New York, N. Y. Hot-water bottles and bags, fountain-syringes, &c. No. 143,839; June 7; v. 287; p. 194.
White, R. H., Company, Boston, Mass. Toilet waters, perfumes, extracts, cold-cream, &c. No. 144,087; June 21; v. 287; p. 583.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 143,878; June 14; v. 287; p. 402.
Nos. 22,992–3; June 14; v. 287; p. 403.
Whiting Paper Company, Holyoke, Mass. Ledger and writing papers. No. 143,773; June 7; v. 287; p. 188.
Whiting Paper Company, Holyoke, Mass. Writing-paper tablets, and mailing-envelops. No. 143,777; June 7; v. 287; p. 188.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candies. No. 143,776; June 7; v. 287; p. 188.
Wilkinson, C. A., Company, Providence, R. I. Frames, mountings, and parts of spectacles, eyeglasses, and lorgnettes. No. 144,297; June 28; v. 287; p. 777.
Williams, Harry G., Los Angeles, Calif. Candies, chocolates, bonbons, and fudges. No. 143,778; June 7; v. 287; p. 188.
Wills, Annie J., Birmingham, Ala. Tonics and dressings for the hair and scalp. No. 144,088; June 21; v. 287; p. 583.
Wilson, Edward W., New York, N. Y. Title of a blank publication. No. 143,840; June 7; v. 287; p. 194.
Wilson, Bohannan, Inc., Brooklyn, N. Y. Locks. Nos. 144,175–6; June 28; v. 287; p. 773.
Wolfson Company, The, Chicago, Ill. Belts for supporting wearing-apparel, &c. No. 144,154; June 21; v. 287; p. 591.
Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 144,090; June 21; v. 287; p. 583.
Wright-Fisher Bushing Corporation, Detroit, Mich. Bushings for machine-tools, including jigs. No. 143,779; June 7; v. 287; p. 188.
Wyman, Partridge & Co., Minneapolis, Minn. Silkolene, sateen, cretonne, scrim, &c. No. 144,091; June 21; v. 287; p. 583.
Younghusband, James L., Chicago, Ill. Eyebrow-dressing. No. 144,299; June 28; v. 287; p. 777.
Zamborsky, Joseph J., Dr., Greensburg, Pa. Face-powder. No. 144,092; June 21; v. 287; p. 583.
Zipern & Robins, Brooklyn, N. Y. General tonics. No. 144,300; June 28; v. 287; p. 777.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Atwater Fruit Exchange, Atwater, Calif. "At-Water." (For Fresh Fruits.) No. 23,025; June 28; v. 287; p. 783.

Bakrow, Richard D., & Son, Louisville, Ky. "All Star Assortment." (For Packages Containing Toy Balloons.)

Blenner, A. E., & Co., Inc., New Haven, Conn. "Cormond Water." (For Washing and Cleaning Preparation.) No. 22,994; June 14; v. 287; p. 403.

Cauley, W. H., Goulds, Fla. "Globe." (For Tomatoes.) No. 22,995; June 14; v. 287; p. 403.

Channell Chemical Company, Chicago, Ill. "O-Cedar." (For a Polish for Furniture, Floors, Linoleum, Pianos, and Autos.) No. 23,026; June 28; v. 287; p. 783.

Chase Davis Aldrich, Blandinsville, Ill. "Aldrich's A No. 1 A Back-to-the-Old Times Good Cigar." (For Boxes Containing Cigars.) No. 23,021; June 21; v. 287; p. 592.

Cohen, Nathan B., Scranton, Pa. "Notair." (For Hair-Nets.) No. 22,996; June 14; v. 287; p. 403.

Cole, C. H., Denver, Colo. "Columbine Grinding Compound." (For Cans Containing Grinding Compound.) No. 22,997; June 14; v. 287; p. 403.

Dill Company, The, Morristown, Pa. "Dill's Ez-A-Cold." (For a Medicinal Preparation for Aid in the Treatment of Colds, Croup, Pneumonia Symptoms, Inflammation and Congestion of the Air-Passages, Burns, Bruises, Insect-Stings, Bronchitis, Neuralgia, Sprains, Tonsilitis, and Whooping-Cough.) No. 22,998; June 14; v. 287; p. 403.

Dinuba Grape Growers Assn, Dinuba, Calif. "Western." (For Grapes.) No. 23,027; June 28; v. 287; p. 783.

Dufner, James J., Minneapolis, Minn. "Dr. Dufner's." (For Mouth-Antiseptic.) No. 22,999; June 14; v. 287; p. 403.

Emerson, Elmer E., Milwaukee, Wis. "Good Luck Malt Syrup." (For Containers of a Concentrated Syrup Manufactured from Malt and other Grain.) No. 23,028; June 28; v. 287; p. 783.

Fort Howard Paper Company, Green Bay, Wis. "Cream of the Forest." (For Toilet Paper, Paper Napkins, Towels, and Table-Cloths.) No. 23,000; June 14; v. 287; p. 403.

Greensburg Baking Co. (See Menasha Printing and Carton Company, assignors.)

Heller, B., & Co., Chicago, Ill. "Meloine." (For Receptacles Containing Meloine, a Preparation Used in the Manufacture of Ice-Cream.) No. 23,001; June 14; v. 287; p. 403.

Heller, B., & Co., Chicago, Ill. "Cold-Storine." (For Cartons Containing Cold-Storine, a Preparation for Keeping Meat Products.) No. 23,002; June 14; v. 287; p. 403.

Heller, B., & Co., Chicago, Ill. "Royal Metal Polish." (For Cans Containing Royal Metal Polish.) No. 23,022; June 21; v. 287; p. 592.

Heller, B., & Co., Chicago, Ill. "Oso Toilet Cleaner." (For Receptacles Containing Oso Toilet Cleaner, a Preparation for Cleaning Closet-Bowls.) No. 23,023; June 21; v. 287; p. 592.

Heller, B., & Co., Chicago, Ill. "Royal Marble Cleaner." (For Cans Containing Royal Marble-Cleaner.) No. 23,029; June 28; v. 287; p. 783.

Henschel, A. C., & Co., Chicago, Ill. "Beleena." (For Cigars.) No. 23,030; June 28; v. 287; p. 783.

Henschel, A. C., & Company, Chicago, Ill. "La Valeta." (For Cigars.) No. 23,031; June 28; v. 287; p. 783.

Hollis, Adolph, Brooklyn, N. Y. "Hollis' Diamond Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and other Receptacles Containing Malt-Syrup.) No. 23,003; June 14; v. 287; p. 403.

Household Products Company, Detroit, Mich. "Snowhite." (For Clothing, Walls, Woodwork, &c., for Cleaning Purposes.) No. 23,004; June 14; v. 287; p. 403.

Jiffy Dessert Company, Waukesha, Wis. "Jiffy-Pie." (For Cartons Containing a Mixture for Making Pie, Custard, Pudding and Cake-Filling.) No. 23,032; June 28; v. 287; p. 783.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Cooked Bran." (For a Food Specifically Known as "Kellogg's Cooked Bran.") No. 23,033; June 28; v. 287; p. 783.

La Linda Diana Cigar Company, New York, N. Y. "Flor De Galindo." (For Cigars.) No. 23,034; June 28; v. 287; p. 783.

Lantz Bros. & Co., Buffalo, N. Y. "Queen Anne Soap." (For Soap.) No. 23,005; June 14; v. 287; p. 403.

Leon, A. M., & Co., New York, N. Y. "Pete Wendling." (For Cigars.) No. 23,006; June 14; v. 287; p. 403.

McManes, Joseph B., Columbus, Ohio. "Bromo-Aspirin." (For Pharmaceutical Preparations.) No. 23,007; June 14; v. 287; p. 403.

Milwaukee Paper Box Company, Milwaukee, Wis. "Aunt Molly's Butter Cream." (For Boxes Containing Butter-Creams.) No. 23,043; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, assignors to Greensburg Baking Co., Greensburg, Pa. "Quality Bread." (For Wax-Paper Wrappers Containing Bread.) No. 23,008; June 14; v. 287; p. 403.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Carpenter Ice Cream Company, St. Louis, Mo. "Carpenter's." (For Cartons Containing Ice-Cream.) No. 23,035; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Safford Ice & Creamery Co., Safford, Ariz. "Safford Creamery Butter." (For Cartons Containing Butter.) No. 23,036; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Gate City Dairy & Ice Cream Co., Atlanta, Ga. "Gate City Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,037; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Eau Claire Creamery Company, Eau Claire, Wis. "Robin Brand Butter." (For Cartons Containing Butter.) No. 23,038; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Milwaukee Butter Company, Milwaukee, Wis. "Cream City Brand." (For Cartons Containing Ice-Cream.) No. 23,039; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, Wis., assignor to York Sanitary Milk Company, York, Pa. "Purity Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,040; June 28; v. 287; p. 783.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Parrott and Ganter Company, Atchison, Kans. "Evergold Butter." (For Cartons Containing Butter.) No. 23,041; June 28; v. 287; p. 783.

Mountain Grove Creamery Ice and Electric Company, Mountain Grove, Mo. "Jersey Gold." (For Butter.) No. 23,009; June 14; v. 287; p. 403.

Nuforal Laboratories, Inc., New York, N. Y. "Nuforal." (For Preparation to be Used in Connection with the Treatment of Tuberculosis.) No. 23,044; June 28; v. 287; p. 783.

Nuttleman, Fred H., Westhoff, Tex. "Turkey Trot Cigars." (For Boxes Containing Cigars.) No. 23,010; June 14; v. 287; p. 403.

Pioneer Creamery Co., Galesburg, Ill. "One Dozen Extra Selected Corn Belt Large Size Eggs." (For Cartons Containing Eggs.) No. 23,045; June 28; v. 287; p. 783.

Ralston Purina Company, St. Louis, Mo. "Ralston a Wheat Food." (For Cereal Food.) No. 23,046; June 28; v. 287; p. 783.

Randall, Mrs. Maude O., Cottonwood, Idaho. "Mrs. Randall's Cream Salad Dressing." (For Receptacles Containing Salad Dressing.) No. 23,024; June 21; v. 287; p. 592.

Rathburn, Mark, Omaha, Nebr. "Granny White's Remedy." (For Preparation for Treatment of Catarrhal Conditions of the Vaginal Mucous Membrane, Inflammation, and Leucorrhea.) No. 23,011; June 14; v. 287; p. 403.

Reedley Canning Co., Reedley, Calif. "Reedley." (For Canned Apricots.) No. 23,012; June 14; v. 287; p. 403.

Saniwax Paper Co., Kalamazoo, Mich. "Buttercup." (For Bread.) No. 23,047; June 28; v. 287; p. 783.

Saniwax Paper Co., Kalamazoo, Mich. "Carnation." (For Bread.) No. 23,048; June 28; v. 287; p. 783.

Scientific Products Co., Baltimore, Md. "'Humming-Bird' Airplane." (For Toy Airplanes.) No. 23,013; June 14; v. 287; p. 403.

State Leaf Tobacco Co., The, New York, N. Y. "Toscanox Box." (For a Cigar-Box.) No. 23,014; June 14; v. 287; p. 403.

Steitz, Edward G., St. Louis, Mo. "Quik-Gro Plant Food." (For Plant Food.) No. 23,015; June 14; v. 287; p. 403.

Sterrick, Harrison D., Pittsburgh, Pa. "Three In One Malt Extract." (For Cans Containing Malt Extract Made of Malt, Hops, and Sugar.) No. 23,016; June 14; v. 287; p. 403.

Superior Builders Supply Co., Little Rock, Ark. "Rose City Mixed Paint." (For Mixed Paints.) No. 23,017; June 14; v. 287; p. 403.

Taylor, Charles M., Jr., Philadelphia, Pa. "Auto-Brite." (For a Liquid Compound for Cleaning, Polishing, and Brightening Automobiles.) No. 23,018; June 14; v. 287; p. 403.

The Milwaukee Co-Operative Cigar Company, Milwaukee, Wis. "The Co-Operative Cigar." (For Cigars.) No. 23,042; June 28; v. 287; p. 783.

Tinker, Edward T., Minneapolis, Minn. "Dr. Tinker's Formula Gold for Cast Crown and Bridge Work." (For Packages Containing Dental Gold.) No. 23,049; June 28; v. 287; p. 783.

U. S. Manifold Company, Chicago, Ill. "Perfex." (For Typewriter Carbon-Paper.) No. 23,019; June 14; v. 287; p. 403.

Ware Mfg. Co., Cleveland, Ohio. "Helen Ware's Complexion Cream." (For Receptacles Containing Complexion-Cream.) No. 23,020; June 14; v. 287; p. 403

Ware Mfg. Co., Cleveland, Ohio. "Helen Ware's Hair Tonic." (For Receptacles Containing Hair-Tonic.) No. 23,050; June 28; v. 287; p. 783.

White, M. E., Washington, D. C. "Stansbery Wonder Salve." (For Labels Placed Around Containers Holding Said Salve.) No. 23,051; June 28; v. 287; p. 783.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Bosch Magneto Corporation, Springfield, Mass. "Magneto Type Battery System." (For Advertising Purposes for Ignition Apparatus.) No. 5,633; June 21; v. 287; p. 592.

Auto Indicator Company, Grand Rapids, Mich. "Auto Indicator." (For Auto-Indicator.) No. 5,619; June 14; v. 287; p. 404.

Bachman Chocolate Manufacturing Co., Mount Joy, Pa. "Bachman 'The Finest Chocolate In the World.'" (For Advertising Purposes for Chocolate-Bars.) No. 5,634; June 21; v. 287; p. 592.

Chapman, Frank, Providence, R. I. "Keep Kitchen Utensils from Rusting." (For Advertising Purposes for "Nokorode" Soldering-Paste.) No. 5,635; June 21; v. 287; p. 592.

Chapman, Frank, Providence, R. I. "A Repair Bill Saved." (For Advertising Purposes for "Nokorode" Soldering-Paste.) No. 5,636; June 21; v. 287; p. 592.

Cream of Wheat Co., Minneapolis, Minn. "Some Imitation." (For Advertising Purposes for Wheat Breakfast Food.) No. 5,620; June 14; v. 287; p. 404.

De Lue, Frederick S., Needham, Mass. "De Lue's Golden Giant New Early Hybrid Sweet Corn." (For Advertising Purposes for Seed Corn.) No. 5,621; June 14; v. 287; p. 404.

Dow Manufacturing Company, Braintree, Mass. "Electric Household Utilities." (For Advertising Purposes for Washing-Machines.) No. 5,637; June 21; v. 287; p. 592.

Ebling Bottling Co. Inc., The, New York, N. Y. "Ebling's Malt Tonic." (For Advertising Purposes for Malt Tonics.) No. 5,638; June 21; v. 287; p. 592.

Felix Girard Co., Inc., The, Minneapolis, Minn. "Rat and Mouse Embalmer." (For Felix Girard Rat and Mouse Poison.) No. 5,622; June 14; v. 287; p. 404.

Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Tomato Ketchup Beef Loaf." (For Advertising Purposes for Heinz Tomato Ketchup.) No. 5,623; June 14; v. 287; p. 404.

Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Tomato Ketchup When You are Wondering About the Distinctively Delicious Flavor of Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) No. 5,624; June 14; v. 287; p. 404.

Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Cream of Tomato Soup Made with Real Cream." (For Advertising Purposes for Heinz Cream of Tomato Soup.) No. 5,625; June 14; v. 287; p. 404.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "A Life Saver Among Life Savers." (For Advertising Purposes for Coffee.) No. 5,639; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "Coffee and Courage are Shipmates." (For Advertising Purposes for Coffee.) No. 5,640; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "When Your Collar Starts to Wilt." (For Advertising Purposes for Coffee.) No. 5,641; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "When You Entertain." (For Advertising Purposes for Coffee.) No. 5,642; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "My Reputation Depends on Coffee." (For Advertising Purposes for Coffee.) No. 5,643; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "Iced Coffee More Than Merely Cooling." (For Advertising Purposes for Coffee.) No. 5,644; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "Anybody Can Make Good Coffee If—." (For Advertising Purposes for Coffee.) No. 5,645; June 21; v. 287; p. 592.

Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "The Zero Hour." (For Advertising Purposes for Coffee.) No. 5,646; June 21; v. 287; p. 592.

Lee, H. D., Mercantile Co., Salina, Kans., and Kansas City, Mo. "Just Like Dad's." (For Advertising Purposes for One-Piece Garments.) No. 5,626; June 14; v. 287; p. 404.

Linden, George J., Worcester, Mass. "Phys-I-Og-Nomy Hat Chart." (For Advertising Purposes for Hats.) No. 5,627; June 14; v. 287; p. 404.

Midwest Fisheries Association, Kansas City, Mo. "If It Swims We Have It." (For Advertising Purposes for Fish.) No. 5,647; June 21; v. 287; p. 592.

Niagara Knitting Mills Corp., New York, N. Y. "Neptune's Daughter." (For Advertising Purposes for Bathing-Suits.) No. 5,628; June 14; v. 287; p. 404.

Odorono Co., The, Cincinnati, Ohio. "Odo-Ro-No Ends Perspiration Annoyance." (For Advertising Purposes for Liquid Deodorizing Preparations for Perspiration Annoyance.) No. 5,648; June 21; v. 287; p. 592.

Owl Garage & Repair Co., Washington, D. C. "Call the Owl." (For Advertising Purposes for Oils, Gas, Automobile-Repair Parts, Batteries and Accessories.) No. 5,649; June 21; v. 287; p. 592.

Pangborn, Frank C., Grand Rapids, Mich. "What is Your Brain Worth?" (For Advertising Purposes for Account-Machines.) No. 5,650; June 21; v. 287; p. 592.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You Certainly Put Joy in Your Language When You Call for Prince Albert." (For Advertising Purposes for Smoking-Tobacco.) No. 5,629; June 14; v. 287; p. 404.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "The Big Gift for the Big Day." (For Advertising Purposes for Smoking Tobacco.) No. 5,630; June 14; v. 287; p. 404.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Slip St. Nick the P. A. Wink." (For Advertising Purposes for Smoking Tobacco.) No. 5,631; June 14; v. 287; p. 404.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Talk About Turning Over a New Leaf." (For Advertising Purposes for Smoking Tobacco.) No. 5,632; June 14; v. 287; p. 404.

Steger & Sons Piano Manufacturing Company, Steger, Ill. "The Finest Reproducing Phonograph in the World." (For Advertising Purposes for Phonographs.) No. 5,651; June 21; v. 287; p. 592.

Steger & Sons Piano Manufacturing Company, Steger, Ill. "The Most Valuable Piano in the World." (For Advertising Purposes for Pianos.) No. 5,652; June 21; v. 287; p. 592.

Spitz, Fannie S., Albuquerque, N. Mex. "New Mexico Shelled Piñon Nuts." (For Advertising Purposes for Piñon Nuts.) No. 5,653; June 21; v. 287; p. 592.

DISCLAIMER.

Cernohouz, James, Chicago, Ill.; disclaimer filed by assignee, Burke & James Inc. Photographic-film camera. No. 1,293,033; disclaimer filed June 6, 1921; v. 287; p. 1.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF JUNE, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal support. S. H. Camp. No. 1,380,883; June 7; v. 287; p. 107.
Abrasive composition. J. A. Menard. No. 1,381,728; June 14; v. 287; p. 319.
Accordion. P. Bartoli. No. 1,382,885; June 28; v. 287; p. 651.
Accounting-machines, Attachment for. S. H. McCracken. No. 1,382,999; June 28; v. 287; p. 673.
Acid, Preparation of hydriodic. G. B. Frankforter. No. 1,380,951; June 7; v. 287; p. 120.
Adding-machines, typewriters, desks, &c., Receptacle for. W. F. Scranton. No. 1,383,032; June 28; v. 287; p. 679.
Adhesive composition. A. La Flamme. No. 1,380,568; June 7; v. 287; p. 46.
Advertising device. W. M. Palmer. No. 1,380,497; June 7; v. 287; p. 33.
Advertising device and street-indicator, Combined. J. A. Greer. No. 1,382,079; June 21; v. 287; p. 444.
Advertising device, Mechanically-operated. H. Aston. No. 1,381,856; June 14; v. 287; p. 343.
Aerial bomb. J. B. Hadaway and C. E. Campbell. No. 1,383,106; June 28; v. 287; p. 693.
Aero Angle-meter or level-register. W. C. Moor. No. 1,380,999; June 7; v. 287; p. 130.
Aeroplane. H. M. Franzen. No. 1,382,772; June 28; v. 287; p. 630.
Aeroplane. C. F. Nayer. No. 1,382,847; June 28; v. 287; p. 644.
Aeroplane. G. C. Offen. No. 1,382,535; June 21; v. 287; p. 530.
Aeroplane. J. W. A. Pepin. No. 1,382,314; June 21; v. 287; p. 488.
Aeroplane. H. Schröder. No. 1,382,861; June 28; v. 287; p. 647.
Aeroplane. J. Zuruk-Zurinsky. No. 1,381,611; June 14; v. 287; p. 296.
Aeroplanes and other airships, Life-saving means for. P. L. Jordan. No. 1,383,124; June 28; v. 287; p. 696.
Aeroplanes, Arming of fighting and other. J. J. M. A. E. Schneider. No. 1,383,242; June 28; v. 287; p. 719.
Agglomerates of various materials and their utilization, Manufacture of. T. Rouse. No. 1,381,748; June 14; v. 287; p. 323.
Agitating-machine. C. F. Sherwood. No. 1,381,673; June 14; v. 287; p. 308.
Agricultural implements, Wheel-adjusting mechanism for. L. E. Waterman. No. 1,381,374; June 14; v. 287; p. 252.
Agricultural machine, Motor-driven. O. Frankman. No. 1,381,816; June 14; v. 287; p. 335.
Air-brake attachment, Emergency-. J. B. Fountain and J. B. Parker. No. 1,382,900; June 28; v. 287; p. 654.
Air-brake systems, Regulating-valve for. L. J. H. Kruse. No. 1,383,218; June 28; v. 287; p. 715.
Air-compressing machine. M. Barbetta. No. 1,382,453; June 21; v. 287; p. 516.
Air-compressor, Engine. J. Müller. No. 1,381,133; June 14; v. 287; p. 208.
Aircraft bombing apparatus. H. A. Danne. No. 1,383,257; June 28; v. 287; p. 722.
Aircraft, Conveyer for unloading articles from. J. M. Reny. No. 1,380,593; June 7; v. 287; p. 51.
Aircraft, Pilot directing instrument and bomb-dropping sight for. A. H. Boettcher. No. 1,381,396; June 14; v. 287; p. 256.
Airplane. G. A. Kehl. No. 1,380,391; June 7; v. 287; p. 13.
Airplane. D. M. Mills. No. 1,380,576; June 7; v. 287; p. 47.
Airplane. H. B. Shields. No. 1,383,157; June 28; v. 287; p. 703.
Air-valve and priming-cup, Combination. F. Schwarzer. No. 1,383,244; June 28; v. 287; p. 719.
Airships and making same, Fabric for. H. A. Gardner. No. 1,381,412; June 14; v. 287; p. 259.
Airships and making same, Fabric for. H. A. Gardner. No. 1,381,413; June 14; v. 287; p. 259.
Alarm: *See*—
Burglar-alarm. Fire-alarm.
Alarm-clock. W. Pfeifer, Jr. No. 1,381,225; June 14; v. 287; p. 225.
Alarms or other electrically-operated devices, Contact for thief-. F. Cressall. No. 1,383,079; June 28; v. 287; p. 688.
Albums, Memorandum attachment for. U. V. Garred. No. 1,381,114; June 14; v. 287; p. 205.
Alloy. C. Vos. No. 1,382,146; June 21; v. 287; p. 456.
Alloy. C. Vos. No. 1,382,147; June 21; v. 287; p. 456.
Almonds, Apparatus for bleaching. G. W. Pierce. No. 1,382,850; June 28; v. 287; p. 644.
Aluminium compound, Precipitating. M. O. Sem. No. 1,382,808; June 28; v. 287; p. 637.
Amalgamating sluice-box. J. P. Beaupre. No. 1,381,159; June 14; v. 287; p. 212.
Ammunition-hoist. E. D. Cummings. No. 1,381,084; June 7; v. 287; p. 146.
Amplifying apparatus. M. C. A. Latour. No. 1,382,738; June 28; v. 287; p. 624.
Amplifying system. C. A. Hoxie. No. 1,382,914; June 28; v. 287; p. 657.
Amusement device. C. F. Gebert. No. 1,380,893; June 7; v. 287; p. 109.
Amusement device. W. C. Hadley. No. 1,382,423; June 21; v. 287; p. 509.
Amusement structure. J. A. Miller. No. 1,380,730; June 7; v. 287; p. 77.
Amusement structure. J. A. Miller. No. 1,380,731; June 7; v. 287; p. 77.
Angle-iron, Machine for bending. J. Karpouich. No. 1,380,482; June 7; v. 287; p. 30.
Angled handpiece. C. A. Herman. No. 1,380,717; June 7; v. 287; p. 75.
Angles, Instrument for measuring. M. A. Tonnessen. No 1,381,520; June 14; v. 287; p. 278.
Anhydrous organic acids, Making substantially. R. L. Andreau. No. 1,381,782; June 14; v. 287; p. 329.
Animal-trap. S. Dybowski. No. 1,380,785; June 7; v. 287; p. 88.
Animal-trap. F. Huismann. No. 1,381,464; June 14; v. 287; p. 268.
Animal-trap. A. L. Townsend. No. 1,382,030; June 21; v. 287; p. 435.
Animal-trap. W. A. Wells. No. 1,382,153; June 21; v. 287; p. 457.
Animals or birds, Marking-tag for. Z. C. Ketchum. No. 1,382,091; June 21; v. 287; p. 446.
Ankle-joint, Cordless. M. E. Rice. No. 1,382,855; June 28; v. 287; p. 646.
Annular articles, Wrapping-machine for. W. M. Wheildon and E. H. Angier. No. 1,380,448; June 7; v. 287; p. 23.
Antiskid device. J. Briggs. No. 1,381,060; June 7; v. 287; p. 142.
Antiskid device. N. M. Hopkins. No. 1,380,964; June 7; v. 287; p. 123.
Antiskidding device. W. E. Tubbs. No. 1,383,261; June 28; v. 287; p. 723.
Apparel, Wearing-. A. Blattner. No. 1,382,616; June 28; v. 287; p. 600.
Applicator. J. N. Whitehouse. No. 1,382,397; June 21; v. 287; p. 504.
Armature-winding. J. A. Kuyser. No. 1,382,987; June 28; v. 287; p. 671.
Article-delivery mechanism. F. W. Danberg. No. 1,381,287; June 14; v. 287; p. 235.
Article-holder. E. G. Shreve. No. 1,380,932; June 7; v. 287; p. 116.
Articulator, Anatomical. R. E. Campbell. No. 1,381,794; June 14; v. 287; p. 331.
Ash-receiving device. C. Kraft. No. 1,381,880; June 14; v. 287; p. 348.
Ash-remover. S. B. Mott. No. 1,381,132; June 14; v. 287; p. 208.
Ash-tanks, Baffle-curtain for. H. A. Poppenhusen. No. 1,380,413; June 7; v. 287; p. 17.
Assembling-machine. C. E. Conner. No. 1,382,762; June 28; v. 287; p. 628.
Attaching-ring. A. T. Fowles. No. 1,382,496; June 21; v. 287; p. 524.
Auto direction-signal. J. Dewar. No. 1,380,546; June 7; v. 287; p. 42.
Auto-lifter. J. B. Storms. No. 1,383,169; June 28; v. 287; p. 705.

Auto-lock. R. F. Ingersoll. No. 1,380,478; June 7; v. 287; p. 29.
Auto-towing device. T. J. Weaver. No. 1,381,042; June 7; v. 287; p. 138.
Auto-wheel shoe. A. G. Hansen. No. 1,381,826; June 14; v. 287; p. 337.
Autoclaves, Locking device for. K. Ensink. No. 1,382,489; June 21; v. 287; p. 522.
Autographic register. W. C. Smith. No. 1,381,140; June 14; v. 287; p. 209.
Automatic carrier. M. H. Lougbridge. No. 1,381,317; June 14; v. 287; p. 241.
Automatic coupling. R. F. Leitzke. No. 1,382,296; June 21; v. 287; p. 485.
Automatic crossing-gate. J. B. Atkins. No. 1,380,342; June 7; v. 287; p. 4.
Automobile-buffer. T. M. Cox. No. 1,381,170; June 14; v. 287; p. 215.
Automobile-buffers, Attaching device for. T. M. Cox. No. 1,381,169; June 14; v. 287; p. 214.
Automobile-buffers, Clamp for attaching. J. R. Reyburn. No. 1,380,741; June 7; v. 287; p. 79.
Automobile-bumper. L. Baumgartl. No. 1,381,614; June 14; v. 287; p. 296.
Automobile-bumper. O. H. Goetz. No. 1,381,182; June 14; v. 287; p. 217.
Automobile-bumper. F. G. Whittington. No. 1,381,151; June 14; v. 287; p. 211.
Automobile-bumper. F. G. Whittington. No. 1,381,377; June 14; v. 287; p. 252.
Automobile-hoists. M. Price. No. 1,381,592; June 14; v. 287; p. 292.
Automobile-hood. C. T. Christianson. No. 1,381,166; June 14; v. 287; p. 214.
Automobile-hoods, Window-frame for. J. Soss. No. 1,381,357; June 14; v. 287; p. 248.
Automobile ignition systems, Commutator device for. H. L. Smith. No. 1,382,864; June 28; v. 287; p. 647.
Automobile-jack. B. Mulvane. No. 1,380,405; June 7; v. 287; p. 15.
Automobile-lifting device. H. F. Flenup. No. 1,380,548; June 7; v. 287; p. 42.
Automobile-lock. C. Hosking and L. L. Hahn. No. 1,382,729; June 28; v. 287; p. 622.
Automobile-lock. E. A. Tanner. No. 1,382,570; June 21; v. 287; p. 537.
Automobile-locking apparatus. A. B. Lang. No. 1,382,431; June 21; v. 287; p. 511.
Automobile-rim. G. M. Kilneline. No. 1,381,565; June 14; v. 287; p. 288.
Automobile-seat cushion. L. Doll. No. 1,382,596; June 21; v. 287; p. 543.
Automobile signaling device. A. G. M. Pansa. No. 1,382,929; June 28; v. 287; p. 659.
Automobile-spring compressor. E. M. Reeves. No. 1,382,801; June 28; v. 287; p. 630.
Automobile steering devices, Take-up and tension attachment for. L. J. Lindsay. No. 1,380,724; June 7; v. 287; p. 76.
Automobile steering-gear. F. M. Copp. No. 1,381,402; June 14; v. 287; p. 257.
Automobile steering-wheels, Push-button-operating device for. C. W. Walters. No. 1,381,259; June 14; v. 287; p. 330.
Automobile-switch. J. A. Freeze. No. 1,381,409; June 14; v. 287; p. 258.
Automobile-turntable. R. B. Iseman. No. 1,380,385; June 7; v. 287; p. 12.
Automobile-wheel. S. Dominguez. No. 1,383,085; June 28; v. 287; p. 689.
Automobile-wheel. R. R. Vale. No. 1,382,031; June 21; v. 287; p. 436.
Automobiles, Accelerator extension-pedal for. F. Harrington. No. 1,383,114; June 28; v. 287; p. 695.
Automobiles and marine and aviating machines, Steering-wheel hand-warming device for. L. F. Stumbaugh. No. 1,380,604; June 7; v. 287; p. 53.
Automobiles, Controlling device for petcocks of. H. Schumacher. No. 1,381,670; June 14; v. 287; p. 307.
Automobiles, Coupling for rigidly connecting rear axles and frame structures of. H. O. Day. No. 1,382,716; June 28; v. 287; p. 619.
Automobiles, Device for protecting the ignition system of. J. H. Bloodgood. No. 1,381,394; June 14; v. 287; p. 255.
Automobiles, Emergency-axle for. F. O. Lewis. No. 1,380,870; June 7; v. 287; p. 105.
Automobiles, Front drive and steering wheel for. B. F. Gregory and W. H. Craun. No. 1,380,796; June 7; v. 287; p. 90.
Automobiles, Locking device for. C. W. Dunn. No. 1,382,179; June 21; v. 287; p. 462.
Automobiles, Locking device for. W. Ludwig. No. 1,382,200; June 21; v. 287; p. 486.
Automobiles, Mirror for. B. J. Hubbard. No. 1,380,910; June 7; v. 287; p. 112.
Automobiles, Running-boards for. J. T. Hayne. No. 1,382,506; June 21; v. 287; p. 525.
Automobiles, Running-boards for. J. T. Hayne. No. 1,382,507; June 21; v. 287; p. 526.
Automobiles, Side window for. C. S. Robertson. No. 1,383,027; June 28; v. 287; p. 678.
Automobiles, Signal device for. G. Bardi. No. 1,381,268; June 14; v. 287; p. 232.
Automobiles, Stop device for use with change-speed pedals of. K. K. McLeod. No. 1,381,721; June 14; v. 287; p. 318.
Auxiliary fuel-tank. C. G. Branigan. No. 1,382,407; June 21; v. 287; p. 506.
Axle, Ball-bearing, F. J. Cochran. No. 1,382,064; June 21; v. 287; p. 441.
Axle construction. E. C. Newcomb. No. 1,381,218; June 14; v. 287; p. 223.
Axle ends, Dust and dirt cap for front-. C. J. Pugh. No. 1,382,671; June 28; v. 287; p. 611.
Axle, Internal-drive rear. F. H. Farmer. No. 1,380,547; June 7; v. 287; p. 42.
Axle, Self-lubricating. C. M. Feist. No. 1,383,090; June 28; v. 287; p. 690.
Axle spring-bar connection, Rear-. R. M. Roof. No. 1,381,432; June 14; v. 287; p. 263.
Azo dyestuffs dyeing on mordants. C. Jagerspacher. No. 1,382,196; June 21; v. 287; p. 465.
Babbitting-jig. W. J. Hempy. No. 1,380,380; June 7; v. 287; p. 11.
Baby carriage and walker, Combined. E. I. Gudelj. No. 1,381,415; June 14; v. 287; p. 259.
Back-filler. H. J. Bentson. No. 1,380,944; June 7; v. 287; p. 119.
Back-rest. H. N. Speer. No. 1,380,934; June 7; v. 287; p. 117.
Back-rest. H. N. Speer. No. 1,380,935; June 7; v. 287; p. 117.
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Handbag. Vulcanizing air-bag.
Bailing apparatus. A. B. Boyer and O. Davisson. No. 1,383,060; June 28; v. 287; p. 686.
Balers, Head-block for hay-. J. A. Dailing. No. 1,380,639; June 7; v. 287; p. 59.
Balloon. J. Henba. No. 1,383,206; June 28; v. 287; p. 712.
Balls(Retriever for golf-. A. C. Carpenter. No. 1,380,526; June 7; v. 287; p. 38.
Bands, Sizing Metal. A. W. Limont. No. 1,382,734; June 28; v. 287; p. 623.
Bank, Savings-. C. D. Henninger. No. 1,381,190; June 14; v. 287; p. 218.
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Boring-bar.
Bar-rack. E. G. Lehman. No. 1,380,570; June 7; v. 287; p. 46.
Barrel-hoop-repair device. G. G. Staines. No. 1,381,760; June 14; v. 287; p. 325.
Base: *See*—
Bead-clasp base.
Base-exchange compound and making same. H. J. Wheaton. No. 1,381,777; June 14; v. 287; p. 328.
Baseball game-board. M. P. Tosso, Jr. No. 1,380,440; June 7; v. 287; p. 22.
Basket-ball goal-indicator. B. Jackson, Jr. No. 1,381,466; June 14; v. 287; p. 269.
Basket-carrier, Detachable. J. P. H. Lane. No. 1,381,476; June 14; v. 287; p. 270.
Basket, Clothes-draining. G. G. McCormick. No. 1,382,521; June 21; v. 287; p. 528.
Basket, Wood and tin bound. O. C. Fenlason. No. 1,381,979; June 21; v. 287; p. 426.
Baths and laving purposes, Hydrotemperature-control system for. D. M. Ralche. No. 1,381,012; June 7; v. 287; p. 132.
Bathtubs, Clothes-wringer attachment for. R. Dowse. No. 1,382,415; June 21; v. 287; p. 508.
Batteries, Connector for. W. Woessner. No. 1,381,443; June 14; v. 287; p. 264.
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Electric battery. Storage battery.
Battery-box. O. E. Hunt. No. 1,382,980; June 28; v. 287; p. 669.
Battery cells, Yielding terminal cap for dye-. A. C. Recker. No. 1,382,440; June 21; v. 287; p. 513.
Battery-charging device, Program. J. W. Bryce. No. 1,382,622; June 28; v. 287; p. 601.
Battery-grid. W. R. Polk. No. 1,381,008; June 7; v. 287; p. 132.
Battery grid, Storage-. W. E. Holland. No. 1,380,962; June 7; v. 287; p. 122.
Battery grid, Storage-. W. E. Holland. No. 1,380,963; June 7; v. 287; p. 123.
Battery-jar. O. Wittmann. No. 1,381,608; June 14 v. 287; p. 295.
Battery-plates, Manufacturing, K. Wright. No. 1,381,387; June 14; v. 287; p. 254.
Bead-clasp base. S. S. Mullins. No. 1,380,827; June 7; v. 287; p. 96.
Beam-head. F. Mossberg. No. 1,380,669; June 7; v. 287; p. 65.
Beam-head. F. Mossberg. No. 1,380,671; June 7; v. 287; p. 66.
Beams, Clamp for angular and cross connections of. T. C. Schenk. No. 1,382,249; June 21; v. 287; p. 476.
Bearing, Antifriction-. C. A. Winn. No. 1,380,622; June 7; v. 287; p. 56.
Bearing for loose pulleys. B. W. Fjellman. No. 1,381,178; June 14; v. 287; p. 216.
Bearing, Journal-. G. W. Denton. No. 1,381,811; June 14; v. 287; p. 334.

Bearing-locking device, Ball-. C. F. Ford. No. 1,380,708; June 7; v. 287; p. 73.
Bearing, Roller-. A. J. Higson. No. 1,381,191; June 14; v. 287; p. 218.
Bearing-shim. C. R. Short. No. 1,383,035; June 28; v. 287; p. 680.
Bearings, Device for aliining and finishing shaft-. A. A. Martell. No. 1,382,842; June 28; v. 287; p. 643.
Bearings with convex rollers, Roller-cage for roller-. E. H. W. Weibull. No. 1,382,333; June 21; v. 287; p. 492.
Bed construction, Couch-. A. F. Kunz. No. 1,381,475; June 14; v. 287; p. 270.
Bed, Couch-. J. Freeman. No. 1,381,292; June 14; v. 287; p. 236.
Bed, Davenport-. A. Davis and N. B. Helfman. No. 1,381,172; June 14; v. 287; p. 215.
Bed-davenport. T. F. Kelly. No. 1,381,843; June 14; v. 287; p. 340.
Bed, Dumping-. G. E. Sargent. No. 1,382,860; June 28; v. 287; p. 647.
Bed, Extensible. N. Sinclair. No. 1,380,502; June 7; v. 287; p. 34.
Bed, Folding. J. I. Higgins. No. 1,380,958; June 7; v. 287; p. 121.
Bed, Folding. V. Terranova. No. 1,380,749; June 7; v. 287; p. 81.
Bed-spring construction, Box-. B. Levine. No. 1,382,432; June 21; v. 287; p. 511.
Bed-warmer. J. R. Fletcher. No. 1,383,197; June 28; v. 287; p. 711.
Bedpan, Cushioned. B. A. Arata and T. L. Mattle. No. 1,382,593; June 21; v. 287; p. 542.
Bedsteads, Corner-fastening for metal. R. Goldberg. No. 1,382,351; June 21; v. 287; p. 495.
Beehive. J. R. Dewees. No. 1,382,068; June 21; v. 287; p. 442.
Bell, Paint-. C. S. Ash. No. 1,380,761; June 7; v. 287; p. 83.
Bellows. P. Heiliger. No. 1,382,081; June 21; v. 287; p. 444.
Bellows-actuated switch. C. A. Braconier. No. 1,381,789; June 14; v. 287; p. 330.
Belt-fastener. G. E. Purple. No. 1,382,799; June 28; v. 287; p. 635.
Belt-fastener. W. F. Youngblodt. No. 1,382,044; June 21; v. 287; p. 438.
Belt-guide. V. Rogers. No. 1,381,664; June 14; v. 287; p. 306.
Belt-pulley and similar device. J. T. Sandberg. No. 1,382,321; June 21; v. 287; p. 489.
Belts, Apparatus for use in making. C. H. Paeplow. No. 1,380,833; June 7; v. 287; p. 98.
Belts, Driving and other. H. Brammer. No. 1,382,888; June 28; v. 287; p. 652.
Belts, Flexible member for. W. J. Whalen. No. 1,382,700; June 28; v. 287; p. 616.
Beverage shipping and dispensing receptacle. D. O. Royster. No. 1,381,341; June 14; v. 287; p. 245.
Bicycle. C. H. Clark. No. 1,381,281; June 14; v. 287; p. 234.
Bicycle or similar wheel. G. M. Ricketts. No. 1,382,122; June 21; v. 287; p. 452.
Billboard. R. A. Johnston. No. 1,382,647; June 28; v. 287; p. 606.
Bin: *See*—
Laundry-segregating bin. Storage-bin.
Binder attachment. A. J. Gapp. No. 1,381,984; June 21; v. 287; p. 427.
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- Internal-combustion rotary engine.
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Finger-ring.
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Vehicle direction-signal
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Window-well construction. J. T. Allmand. No. 1,383,052; June 28; v. 287; p. 683.
Windows, Protecting device for bank-. T. H. and E. P. Robbins. No. 1,382,803; June 28; v. 287; p. 636.
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Windshield attachment. A. F. Gillet. No. 1,381,629; June 14; v. 287; p. 299.
Windshield, Auxiliary. R. L. Greer. No. 1,382,284; June 21; v. 287; p. 483.
Windshield-cleaner. J. T. Lewis. No. 1,382,205; June 21; v. 287; p. 467.
Windshield, Rolling. W. H. Gerhard. No. 1,380,894; June 7; v. 287; p. 109.
Windshield-spotlight support. L. J. Antoine. No. 1,381,267; June 14; v. 287; p. 232.
Windshield-support, Adjustable. E. W. Goodwin. No. 1,381,116; June 14; v. 287; p. 205.
Windshield-wing. B. J. Hubbard. No. 1,380,909; June 7; v. 287; p. 112.
Wire-bound box. M. E. S. Secker. No. 1,382,323; June 21; v. 287; p. 489.
Wire-bound package. J. Caylor. No. 1,382,473; June 21; v. 287; p. 519.
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Wire-coiling machine. E. Turgeon. No. 1,382,258; June 21; v. 287; p. 477.
Wire-connecting device. A. Ascheri. No. 1,382,048; June 21; v. 287; p. 438.
Wire-connection. G. Quaglia and A. Capello. No. 1,381,741; June 14; v. 287; p. 321.

Wire-drawing or similar machines, Stop device for. W. D. Pierson. No. 1,380,412; June 7; v. 287; p. 17.
Wire-forming machine. M. Olson. No. 1,382,379; June 21; v. 287; p. 501.
Wire, Machine for coiling. S. P. Smurr. No. 1,382,251; June 21; v. 287; p. 476.
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Wire rope. R. D. Green. No. 1,382,723; June 28; v. 287; p. 621.
Wire-stitching machine. A. M. Moore. No. 1,380,733; June 7; v. 287; p. 78.
Wiring-conduit cap. F. I. Johnson. No. 1,382,510; June 21; v. 287; p. 526.
Wireless control device. J. Lindgren. No. 1,380,663; June 7; v. 287; p. 64.
Wireless phonograph for hospitals. E. C. Hanson. No. 1,381,827; June 14; v. 287; p. 337.
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Wood, Treating. L. N. Lyon. No. 1,382,103; June 21; v. 287; p. 448.
Wood, Treating. S. Smith. No. 1,380,429; June 7; v. 287; p. 20.
Work-feeding-tripping means. W. S. Sherman. No. 1,381,352; June 14; v. 287; p. 247.
Work-support. L. A. Casgrain. No. 1,382,759; June 28; v. 287; p. 627.
Workbox for domestic use. R. Kelsall. No. 1,382,188; June 21; v. 287; p. 464.
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Wrapper. J. L. Christensen. No. 1,381,904; June 21; v. 287; p. 412.
Wrapper. F. B. Oldham. No. 1,381,425; June 14; v. 287; p. 261.
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Monkey-wrench.
Pipe-wrench.
Socket-wrench.
Well-casing wrench.
Wrench. J. E. Bonnett. No. 1,381,786; June 14; v. 287; p. 329.
Wrench. J. M. Cavanaugh. No. 1,382,761; June 28; v. 287; p. 628.
Wrench. S. Eagle. No. 1,380,643; June 7; v. 287; p. 60.
Wrench. L. Evans. No. 1,382,492; June 21; v. 287; p. 523.
Wrench. R. H. Jones. No. 1,383,123; June 28; v. 287; p. 696.
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Aeroplane-body. L. Hinz. No. 58,233; June 28; v. 287; p. 731.
Article of manufacture, Surface ornamentation of an. G. H. Nevius. No. 58,161; June 14; v. 287; p. 358.
Ash-tray stand. L. Valenzia. No. 58,202; June 21; v. 287; p. 551.
Automobile-body. H. T. Thomas. No. 58,262; June 28; v. 287; p. 736.
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Bed. R. C. East. No. 58,140; June 14; v. 287; p. 354.
Bed-spring. J. L. Moore. No. 58,158; June 14; v. 287; p. 358.
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Cabinet, Electric-welder. S. M. Harvey. No. 58,230; June 28; v. 287; p. 731.
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Carafe, Vacuum-jacketed. H. L. Heisler. No. 58,091; June 7; v. 287; p. 156.
Chandelier. F. M. Paritz. Nos. 58,104–7; June 7; v. 287; p. 158.
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Cigar-cutter. C. E. Zapffe. No. 58,175; June 14; v. 287; p. 360.
Collar-clasp or similar article. P. E. Wiberg. No. 58,123; June 7; v. 287; p. 161.
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Cycles, Mud-guard for. H. J. McCauley. No. 58,246; June 28; v. 287; p. 733.
Desk, School-. L. H. McKee. No. 58,247; June 28; v. 287; p. 734.
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Electrically-operated hand-drill. A. H. Sweetland. No. 58,117; June 7; v. 287; p. 160.
Electrode, Sparking-plug. F. W. Hill. No. 58,231; June 28; v. 287; p. 731.
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Fish-bait. H. S. Dills. Nos. 58,183–4; June 21; v. 287; p. 547.
Fish-bait body. W. A. Stolley. No. 58,116; June 7; v. 287; p. 160.
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Gas-heater, Radiant. E. L. Lope. No. 58,151; June 14; v. 287; p. 356.
Gasolene-dispenser casing. J. H. Brady. No. 58,131; June 14; v. 287; p. 353.
Glass dish, Transparent. G. D. Sailer. Nos. 58,200–1; June 21; v. 287; pp. 550–1.
Goblet or similar article. S. Munich. No. 58,197; June 21; v. 287; p. 550.
Golf-putter head. E. F. Bacheller. No. 58,209; June 28; v. 287; p. 727.
Headlight. D. M. White. No. 58,122; June 7; v. 287; p. 161.
Hearse-body. C. S. Mooney. No. 58,249; June 28; v. 287; p. 734.
Highway-signal. E. H. Medén. No. 58,096; June 7; v. 287; p. 156.
Horn, Valve-casing for a. E. J. Gulick. No. 58,226; June 28; v. 287; p. 730.
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Lubricator. A. A. Van Orsdale and J. B. Linn. No. 58,169; June 14; v. 287; p. 359.
Masher and spoon, Combined culinary. M. Goldsmith. No. 58,223; June 28; v. 287; p. 729.
Mirrorscope and parking-light, Combined. W. P. Hammond. No. 58,228; June 28; v. 287; p. 730.
Motor and air-pump casing, Combination. S. D. Black and A. G. Decker. No. 58,177; June 21; v. 287; p. 547.
Motor-casing. A. Glowicki. No. 58,222; June 28; v. 287; p. 729.
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Police-billy. F. Biffar, Jr. No. 58,214; June 28; v. 287; p. 728.
Pump casing, Rotary-. J. B. Jensen. No. 58,188; June 21; v. 287; p. 548.
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Snap-switch and plug-connector, Combined. F. C. DeReamer. No. 58,076; June 7; v. 287; p. 153.
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Strainer-holder. C. Schaumburg. No. 58,112; June 7; v. 287; p. 159.
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Tire. A. K. Brill. No. 58,067; June 7; v. 287; p. 152.
Tire. I. V. Humphrey. No. 58,187; June 21; v. 287; p. 548.
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Tire-casing. F. S. Dickinson. Nos. 58,181–2; June 21; v. 287; p. 547.
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Tire, Pneumatic. W. F. Collins. No. 58,180; June 21; v. 287; p. 547.
Tire-tread. A. A. Glidden, G. G. Buell, and E. O. Fritch. No. 58,081; June 7; v. 287; p. 154.
Tire-tread. G. Lambright. No. 58,243; June 28; v. 287; p. 733.
Tire-tread, Rubber. J. E. Schneider. No. 58,113; June 7; v. 287; p. 159.
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Tires, Non-skid tread for automobile-. A. F. Glidden. No. 58,080; June 7; v. 287; p. 154.
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Toy. L. Townsend. No. 58,118; June 7; v. 287; p. 160.
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Toy animal. C. J. Clouser. No. 58,135; June 14; v. 287; p. 354.
Toy balloon. E. T. Richert. No. 58,109; June 7; v. 287; p. 159.
Toy coaster. C. Voorhees. No. 58,170; June 14; v. 287; p. 360.
Toy horse with jockey. R. Mulrone. No. 58,251; June 28; v. 287; p. 734.
Toy painting outfit. N. Ullman. No. 58,119; June 7; v. 287; p. 160.

Toy small-arm. C. W. Beiser. No. 58,057; June 7; v. 287; p. 150.
Toy, Vehicle. R. M. G. Phillips. No. 58,255; June 28; v. 287; p. 735.
Tractor. J. C. Westmont. No. 58,280; June 28; v. 287; p. 739.
Tractor transmission-housing. J. M. Howard and C. J. Allen. No. 58,236; June 28; v. 287; p. 732.
Tray or similar article. H. A. Heizmann. No. 58,186; June 21; v. 287; p. 548.
Tweezer. H. W. Armstrong. No. 58,208; June 28; v. 287; p. 727.
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Vehicles, Handle for children's. W. T. Green. No. 58,224; June 28; v. 287; p. 730.
Vehicle-wheel. J. L. Cracraft. No. 58,217; June 28; v. 287; p. 728.
Vehicle-wheel. A. M. Stanley. No. 58,164; June 14; v. 287; p. 359.
Vehicle-wheel. R. H. West. No. 58,279; June 28; v. 287; p. 739.
Vehicles, Footrest for children's. W. T. Green. No. 58,143; June 14; v. 287; p. 355.
Vehicles, Seat-body for children's. H. D. Boyer. No. 58,065; June 7; v. 287; p. 151.
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Wheel-holder. R. B. Stipes and J. D. Goodwin. No. 58,260; June 28; v. 287; p. 736.
Window-fastener. H. Dalitz. No. 58,219; June 28; v. 287; p. 729.

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Aeroplanes and parts thereof. Commercial Aeroplane Wing Syndicate. No. 143,574; June 7; v. 287; p. 182.
Agricultural implements. C. W. Genung. No. 144,217; June 28; v. 287; p. 774.
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Alcohols and potash, soda, barium, and chrome salts, Denatured. Western Industries Co. No. 144,086; June 21; v. 287; p. 583.
Aluminum and aluminum alloys, Ingots, castings, &c., of. Acieral Company of America. No. 143,879; June 21; v. 287; p. 577.
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Antiseptic, Liquid. J. N. Cole. No. 143,572; June 7; v. 287; p. 182.
Antiseptic mentholated cream. Firstade Laboratories. No. 143,801; June 7; v. 287; p. 191.
Antiseptic solution. Aseptico Laboratories. No. 143,538; June 7; v. 287; p. 181.
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Apples, Fresh. R. A. Tedford & Company. No. 143,757; June 7; v. 287; p. 188.
Automobile, furniture, &c., Polish. A. F. Weise. No. 143,769; June 7; v. 287; p. 188.
Automobiles. Holmes Automobile Company. No. 143,807; June 7; v. 287; p. 191.
Automobiles, automobile radiators, reservoirs, and hoods. J. B. D. L. Chardard. No. 143,930; June 21; v. 287; p. 578.
Bagging, Jute. American Manufacturing Company. Nos. 143,887–8; June 21; v. 287; p. 577.
Bakery products. S. A. Reynolds. No. 143,729; June 7; v. 287; p. 187.
Bands for wrapping cake and pie. E. Stendel. No. 143,872; June 14; v. 287; p. 402.
Bark from which tanning substances are made. Harold M. McArthur & Co. No. 143,994; June 21; v. 287; p. 580.
Baseball-bats. Hilton Collins Co. No. 144,227; June 28; v. 287; p. 775.
Bath-salts. H. W. Smith. No. 144,280; June 28; v. 287; p. 776.
Batiste, Cotton. Sears, Roebuck and Co. No. 144,052; June 21; v. 287; p. 582.
Bearings and parts thereof, Roller-. Timken Roller Bearing Company. No. 144,149; June 21; v. 287; p. 590.
Bearings, Roller-. Bock Bearing Company. No. 144,100; June 21; v. 287; p. 585.
Bedspreads. Marshall Field & Company. No. 144,131; June 21; v. 287; p. 588.
Bedspreads, blankets, &c., and textile piece goods. Textile Manufacturers Alliance. No. 144,068; June 21; v. 287; p. 583.
Belts and buckles not of precious metal for personal wear. Hickok Manufacturing Company. No. 143,978; June 21; v. 287; p. 580.
Belts for supporting wearing-apparel, Leather. Miller & Gleason. No. 144,201; June 28; v. 287; p. 774.
Belts for wearing-apparel, &c. Wolfson Company. No. 144,154; June 21; v. 287; p. 591.
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Biscuit. National Biscuit Company. No. 143,693; June 7; v. 287; p. 186.
Blankets, quilts, bedspreads, cotton and wool piece goods, handkerchiefs. Western Dry Goods Co. No. 143,772; June 7; v. 287; p. 188.
Blouses. M. M. Konski. No. 144,322; June 28; v. 287; p. 781.
Blouses, middy dresses and suits, Middy-. D. Caplan & Sons. No. 143,845; June 14; v. 287; p. 399.
Bluing. Twin City Mfg. Co. No. 143,760; June 7; v. 287; p. 188.
Books, charts, &c., for teaching music. H. E. Millikin. No. 144,006; June 21; v. 287; p. 581.
Books issued semiannually. Haas Brothers Fabrics Corporation. No. 144,222; June 28; v. 287; p. 775.
Books, magazines, pamphlets, &c. E. A. Townley. No. 144,071; June 21; v. 287; p. 583.
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Boots and shoes. Emerson Shoe Company. No 143,596; June 7; v. 287; p. 183.
Boots and shoes. L. Teter. No. 144,067; June 21; v. 287; p. 583.
Boots and shoes, Leather. Leonard & Barrows. No. 143,667; June 7; v. 287; p. 185.
Boots and shoes, Leather. Platin Bros. Shoe Co. No. 143,717; June 7; v. 287; p. 186.
Boots, shoes, pacs, calk-locks, &c. C. W. Shoe Manufacturing Company. No. 144,054; June 21; v. 287; p. 582.
Boutonnières and corsage-bouquets. Millinery Products Company. No. 144,007; June 21; v. 287; p. 581.
Box-openers, glass-cutters, nail-pullers, &c. Smith & Hemenway Company. Nos. 144,057–8; June 21; v. 287; p. 582.
Boxes and packing-cases. 4-One-Box Machine Makers. No. 144,256; June 28; v. 287; p. 776.
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Bread. G. O. Kolb. No. 143,659; June 7; v. 287; p. 185.
Bushings for machine-tools. Wright-Fisher Bushing Corporation. No. 143,779; June 7; v. 287; p. 188.
Brief-cases, music-rolls, portfolios. Lifton Mfg. Co. No. 144,193; June 28; v. 287; p. 774.
Bronze and castings made from bronze, Bulk-. American Manganese Bronze Company. No. 144,160; June 28; v. 287; p. 773.
Brushes, Tooth, hair, nail, and face. Western Bottle Manufacturing Company. No. 144,295; June 28; v. 287; p. 777.
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Burlap. Marshall Field & Company. No. 144,001; June 21; v. 287; p. 581.
Butter. Iowa Grain & Produce Co. No. 143,652; June 7; v. 287; p. 184.
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Buttons. Morley Button Manufacturing Company. No. 144,010; June 21; v. 287; p. 581.
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Cambrics in the piece. Rice-Stix Dry Goods Company. No. 143,730; June 7; v. 287; p. 187.
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Candies, chocolates, bonbons, &c. H. G. Williams. No. 143,778; June 7; v. 287; p. 188.
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Candy, Chocolate. Dilling & Company. No. 143,583; June 7; v. 287; p. 182.
Candy. Chocolate. Theodore Gottmann & Sons. No. 143,850; June 14; v. 287; p. 400.
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Canned fruits and vegetables. Lake Odessa Canning Co. No. 144,324; June 28; v. 287; p. 781.
Canned fruits and vegetables. M. Schuckl. No. 144,330; June 28; v. 287; p. 782.
Canned fruits and vegetables. Talbot Packing & Preserving Co. No. 143,755; June 7; v. 287; p. 187.
Canned goods. Gilmers Incorporated. No. 143,614; June 7; v. 287; p. 183.
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Cardboard, Coated. Fabulah Paper Company. No. 143,601; June 7; v. 287; p. 183.
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Catalogues published from time to time. Cady & Olmstead Jewelry Co. No. 143,918; June 21; v. 287; p. 578.
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Cleaning and scouring preparation for household use, machinery, &c. Fitzpatrick Bros. No. 144,215; June 28; v. 287; p. 774.
Cleaning composition for fabrics. Diozine Chemical Co. No. 144,187; June 28; v. 287; p. 774.
Cleaning-polish for metal and glass. Western Sierra Products Company. No. 143,775; June 7; v. 287; p. 188.
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Coals, Anthracite and bituminous. East Brothers Coal Co. No. 143,939; June 21; v. 287; p. 579.
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Coats, Sheepskin-lined. Lanpher, Skinner and Company. No. 144,326; June 28; v. 287; p. 781.
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Coats, trousers, vests, and suits, &c. M & M Company. No. 144,136; June 21; v. 287; p. 589.
Coffee. Gilmers Incorporated. No. 143,615; June 7; v. 287; p. 183.
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Combs, pincushions, shoe-horns. Tuskeloid Company. No. 144,075; June 21; v. 287; p. 583.
Compound for rheumatism and muscular pain. H. M. Collins. No. 143,923; June 21; v. 287; p. 578.
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Cotton piece goods. Amoskeag Manufacturing Company. Nos. 143,781–2; June 7; v. 287; p. 189.
Cotton piece goods. J. E. Brenner & Co. No. 143,788; June 7; v. 287; p. 189.
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Cotton piece goods. Textile Service Co. No. 144,069; June 21; v. 287; p. 583.
Cotton piece goods. Turner & Walls. No. 143,875; June 14; v. 287; p. 402.
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Crackers. Hampton Cracker Co. No. 143,632; June 7; v. 287; p. 184.

Cranes. Manning, Maxwell & Moore, Inc. No. 143,998; June 21; v. 287; p. 580.
Cream substitute. I. Fine & Co. No. 144,318; June 28; v. 287; p. 780.
Crumb trays and scrapers and sink-scrapers. Fuller Brush Company. No. 144,216; June 28; v. 287; p. 774.
Cutlery, Steel. S. E. Bernstein. No. 143,909; June 21; v. 287; p. 578.
Cylinders or bottles, Gas. William Wharton Jr. & Co. No. 144,298; June 28; v. 287; p. 777.
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Dental supplies. Reitz-Farrar Company. Nos. 144,263–4; June 28; v. 287; p. 776.
Deodorant. E. C. Luedtke. No. 144,195; June 28; v. 287; p. 774.
Dies, Marking. Pannier Bros. Stamp Co. No. 143,707; June 7; v. 287; p. 186.
Dihydrochlorid of dioxydiaminoarsenobenzol. Etablissements Poulenc Frères. No. 144,316; June 28; v. 287; p. 780.
Dip and disinfectant for animals and poultry and household use. Barker, Moore & Mein Medicine Company. No. 143,786; June 7; v. 287; p. 189.
Dish-washing machine. Walker Brothers Company. No. 144,081; June 21; v. 287; p. 583.
Disinfectants. R. A. Cassidy. No. 144,179; June 28; v. 287; p. 773.
Drawings or pictures, Series of comic. King Features Syndicate. Nos. 143,988–9; June 21; v. 287; p. 580.
Dresses and skirts, Ladies', children's, and infants'. S. Borger. No. 143,557; June 7; v. 287; p. 182.
Dresses for women. E. Goldson. No. 143,956; June 21; v. 287; p. 579.
Dresses, rompers, creepers, and suits for children. Rosenau Bros. No. 143,732; June 7; v. 287; p. 187.
Dresses, suits, and coats, Children's, Misses', and women's. L. Bogen. No. 143,556; June 7; v. 287; p. 182.
Dust-cloths. Tate Manufacturing Company. No. 144,285; June 28; v. 287; p. 777.
Dust-collecting machinery and apparatus and systems and pneumatic conveying machinery, apparatus, and systems. Dust Recovering & Conveying Company. No. 143,938; June 21; v. 287; p. 579.
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Dyestuffs. E. I. du Pont de Nemours & Co. Nos. 143,588–93; June 7; v. 287; p. 183.
Dyestuffs, intermediates, certified food-colors. National Aniline & Chemical Company. Nos. 144,243–60; June 28; v. 287; p. 775.
Ears, clamps, and hangers for suspending trolley-wires, &c. Ohio Brass Company. No. 144,138; June 21; v. 287; p. 589.
Egg substitute. H. V. Knight. No. 143,658; June 7; v. 287; p. 185.
Eggs and live and dressed poultry. George F. Hinrichs, Incorporated. No. 143,645; June 7; v. 287; p. 184.
Electric fans, motors, and generators. Robbins & Myers Company. No. 143,870; June 14; v. 287; p. 402.
Electric light and power plants. Linderman Steel & Machine Co. No. 143,673; June 7; v. 287; p. 185.
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Electrical apparatus. F. Dufleck. No. 144,314; June 28; v. 287; p. 780.
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Embroideries and notions. Dollfus Mieg & Cie. Societe Anonyme. No. 143,933; June 21; v. 287; p. 578.
Embroideries and notions. Dollfus Mieg & Cie. Societe Anonyme. No. 143,935; June 21; v. 287; p. 578.
Embroideries and notions. Bernhard Ulmann Co. No. 144,076; June 21; v. 287; p. 583.
Engine parts and accessories. Alloys Motor Parts Mfg. Co. No. 143,882; June 21; v. 287; p. 577.
Engines and gas or vacuum pumps, Internal-combustion. P. J. Shouvlin. No. 144,278; June 28; v. 287; p. 776.
Engines and parts thereof, Internal-combustion. Buffalo Gasolene Motor Company. No. 144,102; June 21; v. 287; p. 586.
Engines, grease cups and guns, Auxiliary air-inlet devices for internal-combustion. The Automotive Manufacturing Company. No. 143,899; June 21; v. 287; p. 577.
Engines, Internal-combustion. Adco Manufacturing Co. No. 143,880; June 21; v. 287; p. 577.
Engines, Oil-. P–R Engine Company. No. 144,142; June 21; v. 287; p. 589.
Engines, oil-well-pumping powers, &c., Internal combustion. Bessemer Gas Engine Company. No. 143,911; June 21; v. 287; p. 578.
Eyebrow and eyelid preparations. Julius Schmid Incorporated. No. 143,740; June 7; v. 287; p. 187.
Eyebrow-dressing. J. L. Younghusband. No. 144,299; June 28; v. 287; p. 777.
Fabrics, Silk and silk mixture. Wechsler Barber Silk Co. Nos. 144,083–4; June 21; v. 287; p. 583.
Fabrics, Coated textile. Duratex Company. No. 143,594; June 7; v. 287; p. 183.
Fabrics, Worsted and woolen textile. Holden-Leonard Company. No. 143,647; June 7; v. 287; p. 184.
Face-powders. B. W. Moe. No. 144,009; June 21; v. 287; p. 587.
Fans for personal use. Societe Industrielle de Celluloid. No. 144,059; June 21; v. 287; p. 582.
Feed, Crushed oyster and clam shells for poultry. Leo B. Mull Co. No. 143,690; June 7; v. 287; p. 186.
Fiber-ware receptacles. The Cronkhite Company. No. 144,312; June 28; v. 287; p. 780.
Files and rasps. Nicholson File Company. No. 144,017; June 21; v. 287; p. 581.
Fillet, Leather-. Page Belting Company. No. 143,706; June 7; v. 287; p. 186.
Fire doors and shutters. Merchant & Evans Company. No. 143,684; June 7; v. 287; p. 185.
Fire-extinguisher, Mechanical. Safety Fire Extinguisher Co. No. 144,143; June 21; v. 287; p. 590.
Fireproofing liquids. Leighton and Garland. No. 143,666; June 7; v. 287; p. 185.
Fish, canned and cured. L. Mikkelsen. No. 143,685; June 7; v. 287; p. 185.
Fish, salt and smoked, All varieties of frozen. Canadian Fish & Cold Storage Co. No. 143,567; June 7; v. 287; p. 182.
Flags. Annin & Co. No. 143,536; June 7; v. 287; p. 181.
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Flour, Prepared cake-. Hecker Cereal Company. No. 143,639; June 7; v. 287; p. 184.
Flour, Wheat-. Bernet, Craft & Kauffman Milling Company. No. 143,553; June 7; v. 287; p. 181.
Flour, Wheat-. Dulle-Meyer Milling Company. No. 143,798; June 7; v. 287; p. 190.
Flour, Wheat-. El Reno Mill & Elevator Co. No. 143,687; June 7; v. 287; p. 185.
Flour, Wheat-. Held Bros. No. 143,640; June 7; v. 287; p. 184.
Flour, Wheat-. Kansas Flour Mills Company. No. 143,712; June 7; v. 287; p. 186.
Flour, Wheat-. Liberty Mills. No. 143,671; June 7; v. 287; p. 185.
Flour, Wheat-. Nashville Roller Mills. No. 143,691; June 7; v. 287; p. 186.
Flour, Wheat-. Standard Milling Company of New York. No. 144,283; June 28; v. 287; p. 777.
Flour, Wheat-. Washington Grain & Milling Co. No. 143,767; June 7; v. 287; p. 188.
Flour, wheat Graham, pancake-flour, and cornmeal, Wheat-. Fairbury Mill & Elevator Co. No. 143,690; June 7; v. 287; p. 183.
Flower-bulbs, seeds. Muller-Sealey Company. No. 144,012; June 21; v. 287; p. 581.
Flowers, Artificial. R. J. Munn & Bros. No. 144,037; June 21; v. 287; p. 582.
Fluid for removing spots, &c. C. E. Renneckar. No. 144,265; June 28; v. 287; p. 776.
Fluid-pressure gages. Precision Instrument Company. Nos. 144,028–31; June 21; v. 287; p. 581.
Folding, wrapping, addressing, mailing machines, &c. Speedaumatic Company. No. 144,061; Jan. 21; v. 287; p. 582.
Food for stock. Great Western Milling Company. No. 143,627; June 7; v. 287; p. 184.
Food, Stock. R. W. Davis & Company. No. 143,796; June 7; v. 287; p. 190.
Foods. Guyer & Calkins Co. No. 143,630; June 7; v. 287; p. 184.
Foot-powder. J. A. Ferko. No. 143,603; June 7; v. 287; p. 183.
Forgings, Drop-. Great Lakes Forge Company. No. 144,221; June 28; v. 287; p. 775.
Fruit confection, Citrous. Taylor's. No. 143,756; June 7; v. 287; p. 188.
Fruit emulsion, pastes, pie-fillers, &c. International Company. No. 143,649; June 7; v. 287; p. 184.
Fruit fillings, mince-meat, &c. Goldmeyer, Thiel & Arnold. No. 143,622; June 7; v. 287; p. 184.
Fruit, Fresh citrus. L. W. Lee & Co. No. 143,665; June 7; v. 287; p. 185.
Fruits, citrus. J. Capehart. No. 143,568; June 7; v. 287; p. 182.
Fruits, Fresh citrus. C. H. Baker, Jr. No. 143,546; June 7; v. 287; p. 181.
Fruits, Fresh citrus. Redlands Heights Orchards. No. 143,723; June 7; v. 287; p. 187.
Fruits, Fresh deciduous and vinous. Atwater Fruit Exchange. No. 143,541; June 7; v. 287; p. 181.
Fuel-intensifier and carbon-remover. Ultra-Gas Manufacturing Company. No. 144,077; June 21; v. 287; p. 583.
Furnaces, Sheet-metal casings for coal, wood, and gas. Homer Furnace Company. No. 143,851; June 14; v. 287; p. 400.
Furnaces, Warm-air. Mt. Vernon Furnace & Mfg. Co. No. 144,036; June 21; v. 582.
Furniture-casters. Faultless Caster Co. No. 144,117; June 21; v. 287; p. 587.
Furniture-covers, table-scarfs, handkerchiefs. Priscilla Company. No. 144,032; June 21; v. 287; p. 581.

Game, Board. Haines & Parsons. No. 144,223; June 28; v. 287; p. 775.
Garments, Sleeping-. Oppenheim, Oberndorf & Co. Nos. 143,702–3; June 7; v. 287; p. 186.
Gasolene, kerosene, naphtha, &c. Tide Water Oil Company. No. 143,758; June 7; v. 287; p. 188.
Gasolene-saver. Chemical. Vee Gee Mfg. Co. No. 144,290; v. 287; p. 777.
Gears, rawhide gears and pinions, &c., Cut-metal. Meachem Gear Corporation. No. 144,132; June 21; v. 287; p. 588.
Glasses, Opera and field. R. H. Macy & Co. Nos. 144,107–8; June 28; v. 287; p. 774.
Golf-clubs, fishing-rods, minnow-seines, &c. Simmons Hardware Company. No. 144,331; June 28; v. 287; p. 782.
Grape-syrup. S. V. Peiser & Company. No. 143,710; June 7; v. 287; p. 186.
Grass-seed lawn mixture. Atlantic Grass Seed Co. Nos. 143,893–4; June 21; v. 287; p. 577.
Gravers, chisels, gougers, burnishers, &c. Hammel, Riglander & Co. No. 143,971; June 18; v. 287; p. 580.
Ground or flooring wearing-surface compound. M. D. Shannon. No. 143,746; June 7; v. 287; p. 187.
Gum, Chewing-. Listerated Gum Corporation. No. 143,674; June 7; v. 287; p. 185.
Gum, Chewing-. Pirodent Corporation. No. 143,716; June 7; v. 287; p. 186.
Gutters and rubber roofing, Wooden. E. M. Long & Sons. No. 143,858; June 14; v. 287; p. 400.
Hair and scalp tonic, &c. Imperial Pharmaceutical Company. No. 144,188; June 28; v. 287; p. 774.
Hair-dressing. B. Robins. No. 144,046; June 21; v. 287; p. 582.
Hair-grower. T. W. Berry. No. 143,910; June 21; v. 287; p. 578.
Hair grower or tonic. E. Goss. No. 143,625; June 7; v. 287; p. 184.
Hair-nets. Burnstine and Nachman. No. 143,917; June 21; v. 287; p. 578.
Hair-nets. East and West Trading Corporation. No. 143,595; June 7; v. 287; p. 183.
Hair-nets. Enders Human Hair Co. No. 143,962; June 21; v. 287; p. 579.
Hair-nets. S. Glemby, Inc. Nos. 143,618–20; June 7; v. 287; p. 183.
Hair-nets. S. Glemby, Inc. No. 143,804; June 7; v. 287; p. 191.
Hair-nets. E. A. McGinnis. No. 143,995; June 21; v. 287; p. 580.
Hair-nets. S. S. Pierce Co. No. 143,715; June 7; v. 287; p. 186.
Hair-nets. Reichman & Faust. No. 144,042; June 21; v. 287; p. 582.
Hair-nets. N. Seligman Merchandise Co. No. 143,745; June 7; v. 287; p. 187.
Hair-nets. Western Bottle Manufacturing Company. No. 143,771; June 7; v. 287; p. 188.
Hair-nets, Sanitary human-. National Commodities Co. No. 143,694; June 7; v. 287; p. 186.
Hair, Preparation for restoring the natural color of the. F. M. Espinosa-Rendon. No. 143,728; June 7; v. 287; p. 187.
Hair-tonic. D. Costarella. No. 143,924; June 21; v. 87; p. 578.
Hair-tonic. T. Noonan & Sons Company. No. 144,329; June 28; v. 287; p. 782.
Hair tonic and dressing, dandruff-extractor, &c. C. Waller. No. 143,765; June 7; v. 287; p. 188.
Hammers, sledges, &c., Handles for. Factory Supply Company. No. 144,213; June 28; v. 287; p. 774.
Hammocks, Couch. New England Bedding Company. No. 144,252; June 28; v. 287; p. 776.
Hams, bacon, and lard. F. E. Patrick Young Co. No. 143,708; June 7; v. 287; p. 186.
Hand-tools. H. D. Smith & Company. No. 144,145; June 21; v. 287; p. 590.
Handkerchiefs. Long Handkerchief Co. No. 143,812; June 7; v. 287; p. 192.
Handkerchiefs. Long Handkerchief Co. No. 143,861; June 14; v. 287; p. 401.
Hardware. Herbert Terry & Sons. No. 144,066; June 21; v. 287; p. 582.
Hardware for drapery, furniture, and upholstery. H. L. Judd Company. No. 143,985; June 21; v. 287; p. 580.
Hats. Joseph Loeb Company. No. 143,675; June 7; v. 287; p. 185.
Hats and caps, Men's and boys'. Hatter's Clearing House. No. 143,636; June 7; v. 287; p. 184.
Hats for women and children. Vogel Bros. Hat Co. No. 143,763; June 7; v. 287; p. 188.
Hats, Ladies'. L. D. Sultzer Co. No. 143,753; June 7; v. 287; p. 187.
Hats, Ladies' and children's. Vail Hat Co. No. 144,078; June 21; v. 287; p. 583.
Hats, Ladies' trimmed. Laurel Hat Co. No. 143,664; June 7; v. 287; p. 185.
Hats, Men's. R. H. Macy & Co. No. 143,681; June 7; v. 287; p. 185.
Hats, Straw. Harris-Polk Hat Company. No. 143,806; June 7; v. 287; p. 191.
Hay-presses. Adco Manufacturing Co. No. 143,881; June 21; v. 287; p. 577.
Hinges for doors, sashes, &c. W. L. Evans, Jr. No. 144,116; June 21; v. 287; p. 587.
Hoists and heads, jibs, and other parts and accessories therefor. Gillis & Geoghegan. No. 143,954; June 21; v. 287; p. 579.
Hosiery. Chipman Knitting Mills. No. 143,702; June 7; v. 287; p. 190.
Hosiery. Heminway & Bartlett Silk Co. No. 143,975; June 21; v. 287; p. 580.
Hosiery. Ideal Hosiery Mills. No. 143,853; June 14; v. 287; p. 400.
Hosiery. John M. Given Co. No. 143,616; June 7; v. 287; p. 183.
Hosiery. Penn Rivet Corporation. No. 143,711; June 7; v. 287; p. 186.
Hosiery. Southern Export Corporation. No. 144,060; June 21; v. 287; p. 582.
Hot-water bottles and bags, fountain-syringes, &c. Whitall Tatum Company. No. 143,839; June 7; v. 287; p. 194.
House organ published at intervals. Refinite Company. No. 144,041; June 21; v. 287; p. 582.
House organ published monthly. J. M. Walker. No. 144,082; June 21; v. 287; p. 583.
Hydrants. Howard Iron Works. Nos. 144,238–9; June 28; v. 287; p. 775.
Ice-cream. Anheuser-Busch. No. 143,535; June 7; v. 287; p. 181.
Ice-cream. Clover Creamery Company. No. 144,182; June 28; v. 287; p. 773.
Ice-cream. H. P. Hood & Sons. No. 144,230; June 28; v. 287; p. 775.
Ice-cream. A. P. McLendon. No. 143,710; June 7; v. 287; p. 186.
Ice-making and refrigerating machinery. Trick Company. No. 144,236; June 28; v. 287; p. 775.
Ices, puddings, &c., and fillers for confectionery, &c., Dressings or sauces for. J. H. Sasseen. No. 143,738; June 7; v. 287; p. 187.
Incense. E. F. Gomi. No. 143,965; June 21; v. 287; p. 579.
Indicators, revolution-counters, draft-gages, Direction and revolution. McNab Company. No. 144,129; June 21; v. 287; p. 588.
Insecticide. Fil-No-Mo Manufacturing Company. No. 143,963; June 21; v. 287; p. 579.
Jackets, Heath. American Hosiery Company. No. 144,302; June 28; v. 289; p. 779.
Jar-rings. Amboy Products Co. No. 144,157; June 28; v. 287; p. 773.
Joints, Universal. Bausch Machine Tool Company. No. 144,099; June 21; v. 287; p. 585.
Journal, Monthly. Spice Mill Publishing Co. Nos. 143,748–9; June 7; v. 287; p. 187.
Journal-name. Mutual Homes Society. No. 144,015; June 21; v. 287; p. 581.
Kid, Glazed. Henwood & Nowak. No. 143,976; June 21; v. 287; p. 580.
Knife and tool sharpeners, Mower-. S. Cheney & Son. No. 144,105; June 21; v. 287; p. 586.
Knit jackets. Morgan Knitting Mills. No. 143,820; June 7; v. 287; p. 192.
Knit jackets, sweaters, and coats. Morgan Knitting Mills. No. 143,819; June 7; v. 287; p. 192.
Knitted cotton padding. Prosperity Company. No. 143,720; June 7; v. 287; p. 186.
Laces, Shoe-. J. Frier. No. 143,953; June 21; v. 287; p. 579.
Laxative. W. D. Craig. No. 143,926; June 21; v. 287; p. 578.
Laxatives. Limestone Phosphate Company. No. 144,327; June 28; v. 287; p. 781.
Leaks or cracks, Powder and liquid used in repairing. Metaloid Company. No. 143,815; June 7; v. 287; p. 192.
Leather, Bends of sole-. P. Barbieri. No. 143,906; June 21; v. 287; p. 578.
Leather brief cases, music-rolls, portfolios, &c. Rex Leather Goods Corporation. No. 144,266; June 28; v. 287; p. 776.
Lenses and blanks therefor, Ophthalmic and semifinished. American Optical Company. Nos. 144,162–5; June 28; v. 287; p. 773.
Limestone, Ground. Grangers Lime Company. No. 143,966; June 21; v. 287; p. 579.
Liniment. B. Diamant. No. 143,961; June 21; v. 287; p. 579.
Liniments. J. W. Boothe. No. 143,913; June 21; v. 287; p. 578.
Liquid cleaning and polishing materials for automobile-bodies. Crystal-Lac Products Company. No. 144,234; June 28; v. 287; p. 775.
Liquid preparation, Medicinal. J. P. Schrodt. No. 144,273; June 28; v. 287; p. 776.
Locks. W. Bohannan, Inc. Nos. 144,175–6; June 28; v. 287; p. 773.
Locks and lock-casings. E. L. Godshalk. No. 144,218; June 28; v. 287; p. 774.
Lumber. Prasse Lumber Company. No. 143,832; June 7; v. 287; p. 194.
Lumber. Weltzel Lumber Company. No. 143,774; June 7; v. 287; p. 188.
Machines and equipments for use by bakers. American Bakers Machinery Company. No. 143,884; June 21; v. 287; p. 577.

Machines and tools. Hall Hardware Company. No. 143,970; June 21; v. 287; p. 580.
Machinery and tools. Hill, Clarke & Co. of Chicago. No. 144,121; June 21; v. 287; p. 587.
Machinery and water-cooled equipment for furnaces. Blaw-Knox Company. No. 143,912; June 21; v. 287; p. 578.
Magazine, Monthly. Camp Fire Girls, Inc. No. 143,566; June 7; v. 287; p. 182.
Magazine, Monthly. Guardsman Publishing and Printing Company. No. 143,268; June 21; v. 287; p. 579.
Magazine, Periodical. Architects' Small House Service Bureau of Minnesota. No. 143,891; June 21; v. 287; p. 577.
Magazine published from time to time. Baldwin Company. No. 143,904; June 21; v. 287; p. 577.
Malt, Extract of barley-. Burger Bros. Company. No. 143,564; June 7; v. 287; p. 182.
Malt-syrup and hop compound. Augusta Ice & Beverage Company. No. 143,542; June 7; v. 287; p. 181.
Marble and cut stone. Georgia Marble Company. Nos. 143,848–9; June 14; v. 287; p. 399.
Marshmallow crême and egg-powder compound. Citizens' Wholesale Supply Co. No. 143,571; June 7; v. 287; p. 182.
Mayonnaise. A. Dages. No. 144,110; June 21; v. 287; p. 586.
Meat extract. Bonovin Limited. No. 144,177; June 28; v. 287; p. 773.
Meats and lard. G. Lang. No. 144,325; June 28; v. 287 p. 781.
Meats, Smoked. Rohe & Brother. No. 143,731; June 7; v. 287; p. 187.
Medicated tonic for poultry. Cackle Dust Laboratories. No. 143,565; June 7; v. 287; p. 182.
Medicinal and pharmaceutical compounds. H. K. Mulford Co. No. 144,013; June 21; v. 287; p. 581.
Medicinal and pharmaceutical preparations. Kaufmann Department Stores. No. 143,987; June 21; v. 287; p. 580.
Medicinal and toilet preparations. E. J. Townsend. No. 144,286; June 28; v. 287; p. 777.
Medicinal antiseptic for hypodermic medication. Sharp & Dohme. No. 144,053; June 21; v. 287; p. 582.
Medicinal compound. Dermatological Research Laboratories. No. 143,931; June 21; v. 287; p. 578.
Medicinal ointments. Owl Drug Company. No. 143,865; June 14; v. 287; p. 401.
Medicinal preparation. Chemische Fabrik vormals Sandoz. No. 144,233; June 28; v. 287; p. 775.
Medicinal preparation. Rebo Drug Manufacturing Company. No. 143,727; June 7; v. 287; p. 187.
Medicinal preparation. A. Ross. No. 144,270; June 28; v. 287; p. 776.
Medicinal preparation. F. J. O'Neill Medicine Co. No. 143,864; June 14; v. 287; p. 401.
Medicinal preparation. E. J. Swann. No. 144,332; June 28; v. 287; p. 782.
Medicinal preparation for indigestion. W. L. Haralson. No. 143,972; June 21; v. 287; p. 580.
Medicinal preparation for indigestion, &c. A. W. Chappell. No. 144,183; June 28; v. 287; p. 773.
Medicinal preparations. Eli Lilly and Company. No. 144,210; June 28; v. 287; p. 774.
Medicine. Creomulsion Company. No. 144,186; June 28; v. 287; p. 774.
Medicine for an itch treatment. Y. Ching. No. 143,791; June 7; v. 287; p. 190.
Medicine for kidney, liver, and stomach disorders. Kollins Chemical Co. No. 143,660; June 7; v. 287; p. 185.
Medicine for tired and aching feet. O. E. Lee. No. 143,677; June 7; v. 287; p. 185.
Medicines, Veterinary. J. H. Luff. No. 144,034; June 21; v. 287; p. 582.
Metal, Babbitt. Hoyt Metal Company. Nos. 144,122–3; June 21; v. 287; p. 587.
Metal pipe joints or couplings. Jefferson Union Company. Nos. 144,124–5; June 21; v. 287; p. 588.
Metal strips. Traitel Marble Co. No. 143,837; June 7; v. 287; p. 194.
Milk, Raw dry. Mackaywood Company. No. 143,679; June 7; v. 287; p. 185.
Mirrors and picture-frames, Hand-. Newark Tortoise Shell Novelty Co. No. 143,818; June 7; v. 287; p. 192.
Molding material. National Mineral Products Co. No. 144,035; June 21; v. 287; p. 582.
Mops or dusters. Harzee Manufacturing Company. No. 144,225; June 28; v. 287; p. 775.
Motor-vehicles. C. S. Henshaw. No. 144,156; June 21; v. 287; p. 591.
Motors actuated by tide-power. Universal Tide Power Company. No. 144,150; June 21; v. 287; p. 590.
Mouth-washes. Pro-Cide Company. No. 143,718; June 7; v. 287; p. 186.
Musical instruments. F. J. Kornbrust. No. 143,855; June 14; v. 287; p. 400.
Neckties. Guest Neckwear Company. No. 143,629; June 7; v. 287; p. 184.
Neckties and cravats. H. J. Silberman & Co. No. 143,747; June 7; v. 287; p. 187.
Needles for hand use, Knitting. Marshall Field & Company. No. 144,199; June 28; v. 287; p. 774.
Newspaper-section. David Lawrence, Inc. No. 143,992; June 21; v. 287; p. 580.
Nickel sheets, tubes, rods, &c. Nickel-Alloys Company. No. 144,254; v. 287; p. 776.
Nightgowns, sleeping-garments, pajamas, Children's. August Knitting Corporation. No. 143,543; June 7; v. 287; p. 181.
Notions and smallwares. Edwin Horrex, Inc. No. 144,231; June 28; v. 287; p. 775.
Oil, Butter-. Capitol Refining Co. No. 144,307; June 28; v. 287; p. 779.
Oil, Cotton-seed cooking-. Capitol Refining Co. No. 144,308; June 28; v. 287; p. 779.
Oil-cups, Automatic. G. S. Lane. No. 143,663; June 7; v. 287; p. 185.
Oil emulsion. Moore Oil Refining Company. No. 143,688; June 7; v. 287; p. 186.
Oil, Olive. A. Magnano Co. No. 144,328; June 28; v. 287; p. 781.
Oil used in treatment of woolen fabrics. American Oil Company. No. 144,161; June 28; v. 287; p. 773.
Oil-well machinery, &c. Oil Well Supply Company. No. 144,139; June 21; v. 287; p. 589.
Oils and greases, &c., Chemical. Automotive Specialty Manufacturing Co. No. 143,901; June 21; v. 287; p. 577.
Oils, Cooking-. Capitol Refining Co. No. 143,569; June 7; v. 287; p. 182.
Oils, Lubricating-. E. F. Houghton & Co. No. 143,852; June 14; v. 287; p. 400.
Oiled cloth. Stephens & Wilkes. No. 144,064; June 21; v. 287; p. 582.
Ointment, Eczema-. Granville Moody Kinikin. No. 144,191; June 28; v. 287; p. 774.
Ointment for eczema and all skin diseases. Raw-Zema Co. No. 143,722; June 7; v. 287; p. 186.
Ointment, Mustard. Smith-Faus Drug Co. No. 144,279; June 28; v. 287; p. 776.
Ointment, Phrophylactic. Menley & James. No. 143,683; June 7; v. 287; p. 185.
Ointment, Venereal prophylactic. J. N. Cole. No. 144,184; June 28; v. 287; p. 773.
Oleomargarin. Diamond Standish & Co. No. 143,750; June 7; v. 287; p. 187.
Organdie, English printed voiles, French novelties in the piece, &c. H. J. Bachrach. No. 143,902; June 21; v. 287; p. 577.
Overalls, Auto-suits, and work-coats. Everwear Manufacturing Co. No. 144,317; June 28; v. 287; p. 780.
Overalls, Children's. Jobbers Overall Co. No. 143,654; June 7; v. 287; p. 185.
Overalls, coats, trousers, &c. J. Baker & Sons. No. 143,903; June 21; v. 287; p. 577.
Overalls, work shirts and pants, coats. Textile Products Manufacturing Company. No. 143,835; June 7; v. 287; p. 194.
Overcoats, Men's. Harrods (North America) Ltd. Nos. 143,634–5; June 7; v. 287; p. 184.
Oysters and clams, Fresh. J. & J. W. Elsworth Co. No. 143,799; June 7; v. 287; p. 190.
Packing-cases, cartons, &c. Bird & Son. No. 144,172; June 28; v. 287; p. 773.
Pads, Coat-front. Famous Coat Front Pad Co. No. 143,602; June 7; v. 287; p. 183.
Paint, paint enamel, varnish, &c., Mixed. J. F. Kurfees Paint Company. No. 143,856; June 14; v. 287; p. 400.
Paints and painters' materials. Empire Varnish Company. No. 143,597; June 7; v. 287; p. 183.
Paints and tinting paints and stains, Ready-mixed. Samuel Cabot Incorporated. No. 143,789; June 7; v. 287; p. 189.
Paints, finishes, colors, &c. American Paint Works. No. 143,842; June 14; v. 287; p. 399.
Pajamas and night-shirts. M. Natelson. No. 143,692; June 7; v. 287; p. 186.
Paper. J. L. N. Smythe Company. No. 144,281; June 28; v. 287; p. 777.
Paper and stationery. J. W. Butler Paper Company. No. 144,104; June 21; v. 287; p. 586.
Paper and stationery. Eaton, Crane & Pike Company. No. 144,114; June 21; v. 287; p. 587.
Paper and stationery. Fred Webster Paper Company. No. 144,151; June 21; v. 287; p. 590.
Paper and stationery. A. I. Randall, Inc. No. 143,869; June 14; v. 287; p. 401.
Paper and stationery. White & Wyckoff Manufacturing Company. No. 143,878; June 14; v. 287; p. 402.
Paper, Bond-. Neenah Paper Co. No. 143,697; June 7; v. 287; p. 186.
Paper, Book-. J. W. Butler Paper Company. No. 144,103; June 21; v. 287; p. 586.
Paper fixtures, Toilet-. Associated Manufacturers Company. No. 144,170; June 28; v. 287; p. 773.
Paper, Onion-skin. Esleeck Mfg. Co. No. 143,598; June 7; v. 287; p. 183.
Paper, Print-. Perkins, Goodwin Co. No. 143,714; June 7; v. 287; p. 186.
Paper table-napkins, table covers, and doilies. Neben Manufacturing Company. No. 143,696; June 7; v. 287; p. 186.
Paper, tablets, and mailing-envelops, Writing-. Whiting Paper Company. No. 143,777; June 7; v. 287; p. 188.
Paper, Wall-. Bazille & Partridge. No. 143,549; June 7; v. 287; p. 181.
Paper, Wall-. Cincinnati Wall Paper Company. No. 143,570; June 7; v. 287; p. 182.

Papers. J. W. Butler Paper Company. No. 144,306; June 28; v. 287; p. 779.
Papers and cloths, Flint, garnet, and emery. American Glue Company. No. 144,159; June 28; v. 287; p. 773.
Papers and paper napkins, Tissue and waxed. American Tissue Mills. No. 143,531; June 7; v. 287; p. 181.
Papers and periodical magazines, Story-. Perry Mason Company. No. 144,005; June 21; v. 287; p. 581.
Papers, Blotting, box, cover, and text-book. District of Columbia Paper Manufacturing Company. No. 143,586; June 7; v. 287; p. 182.
Papers, Cigarette-. Michailitschke Bros. & Co. No. 143,816; June 7; v. 287; p. 192.
Papers, Ledger and writing. Whiting Paper Company. No. 143,773; June 7; v. 287; p. 188.
Papers, writing, printing, ruled, and for envelops. J. W. Butler Paper Company. No. 144,305; June 28; v. 287; p. 779.
Parasols and umbrellas. Polan, Katz & Co. No. 144,026; June 21; v. 287; p. 581.
Paste, Rat and roach. Stearns' Electric Paste Co. No. 144,063; June 21; v. 287; p. 582.
Pen-points, Metallic. C. Howard Hunt Pen Co. No. 144,232; June 28; v. 287; p. 775.
Pencils, Lead-. American Lead Pencil Company. No. 143,530; June 7; v. 287; p. 181.
Periodical, Monthly. Goodyear Tire & Rubber Company. No. 143,624; June 7; v. 287; p. 184.
Periodical, Monthly. H. O. Reno Company. No. 144,043; June 21; v. 287; p. 582.
Periodical published monthly. Atlantic Monthly Company. No. 143,895; June 21; v. 287; p. 577.
Periodical published weekly. Living Age Company. No. 143,993; June 21; v. 287; p. 580.
Periodical, Weekly. Thoroughbred Record Company. No. 144,070; June 21; v. 287; p. 583.
Periodicals, Weekly. Starchroom Publishing Company. No. 144,062; June 21; v. 287; p. 582.
Phonographs. J. A. Compton. No. 144,310; June 28; v. 287; p. 778.
Photographic films. Chastains' Incorporated. No. 143,919; June 21; v. 287; p. 578.
Pianos and player-pianos. Lester Piano Company. No. 143,857; June 14; v. 287; p. 400.
Picture films, Motion-. C. M. Fraser. No. 143,612; June 7; v. 287; p. 183.
Piece goods made with a cotton warp and a filling of wool, &c. Lesher, Whitman & Co. Nos. 143,668–70; June 7; v. 287; p. 185.
Piece goods—namely, drill. Marshall Field & Company. No. 144,130; June 21; v. 287; p. 588.
Pile remedy. H. E. Diller. No. 143,932; June 21; v. 287; p. 578.
Pillows. Chas. Emmerich & Co. No. 144,211; June 28; v. 287; p. 774.
Pins, Safety-. Burnstine and Nachman. No. 143,916; June 21; v. 287; p. 578.
Pipe fittings and valves. Crane Company. No. 143,927; June 21; v. 287; p. 578.
Pistons. Dyer Company. No. 144,113; June 21; v. 287; p. 587.
Pliers. H. H. Smith & Company. No. 144,146; June 21; v. 287; p. 590.
Polish, Floor-. A. S. Boyle. No. 144,101; June 21; v. 287; p. 585.
Pomade, Hair-. W. T. Knight, Jr. No. 143,991; June 21; v. 287; p. 580.
Portable and other machinery. Black & Decker Manufacturing Co. No. 143,554; June 7; v. 287; p. 181.
Potatoes, Fresh. L. H. Hellmann. No. 143,641; June 7; v. 287; p. 184.
Poultry-disinfectant. Barker, Moore & Mein Medicine Company. No. 143,787; June 7; v. 287; p. 189.
Powder, cold-cream, &c., Talcum. Weichsel Laboratories. No. 143,768; June 7; v. 287; p. 188.
Powder, Face-. Dr. J. J. Zamborsky. No. 144,092; June 21; v. 287; p. 583.
Powder, Foot-. L. W. Estilow. No. 143,946; June 21; v. 287; p. 579.
Powders and creams and rouge, Face. S. Cohen. No. 143,921; June 21; v. 287; p. 578.
Preparation for colds, coughs, bronchitis, pneumonia, &c. J. Pakos. No. 144,022; June 21; v. 287; p. 581.
Preparation for diarrhea, cholera morbus, &c., Medicinal. W. L. Haralson. No. 143,973; June 21; v. 287; p. 580.
Preparation for shampooing. B. P. Jennings. No. 143,984; June 21; v. 287; p. 580.
Preparation for the treatment of skin. N. L. Thomas. No. 143,873; June 14; v. 287; p. 402.
Preparation to prevent tires from sticking to molds. Western Vulcanizer Manufacturing Company. No. 144,153; June 21; v. 287; p. 590.
Presses. V. D. Anderson Company. No. 144,097; June 21; v. 287; p. 585.
Preventive for venereal diseases. E. J. Moore Sons. No. 144,206; June 28; v. 287; p. 774.
Publication blank. E. W. Wilson. No. 143,840; June 7; v. 287; p. 194.
Publication, Monthly. American Society of Agricultural Engineers. No. 143,890; June 21; v. 287; p. 577.
Publication, Monthly. Experimenter Publishing Co. No. 143,947; June 21; v. 287; p. 579.
Publication, Monthly. W. E. McCaslin. No. 143,678; June 7; v. 287; p. 185.
Publication, Monthly. Motorcraft Publishing Company. No. 144,011; June 21; v. 287; p. 581.
Publication, Monthly. Perfumer Publishing Company. No. 143,713; June 7; v. 287; p. 186.
Publication, Monthly and periodical. Crane & Breed Manufacturing Company. No. 143,579; June 7; v. 287; p. 182.
Publication, Trade. Edward Katzinger Company. No. 143,986; June 21; v. 287; p. 580.
Publication, Weekly insurance. G. W. Wadsworth. No. 144,080; June 21; v. 287; p. 583.
Puddings, Chocolate and vanilla corn-starch. Rath Manufacturing Company. No. 143,721; June 7; v. 287; p. 186.
Pumice, whale-oil soap, metal-polish, &c. San Antonio Drug Co. No. 144,271; June 28; v. 287; p. 776.
Pumps and pumping apparatus, Liquid. Edson Manufacturing Co. No. 144,115; June 21; v. 287; p. 587.
Pumps, Indicators for liquid-dispensing. C. S. Ayres. No. 143,545; June 7; v. 287; p. 181.
Radiator shutters, Automobile-. Pines Manufacturing Company. No. 143,868; June 14; v. 287; p. 401.
Radiators, Automobile-. Curran-Detroit Radiator Company. No. 143,795; June 7; v. 287; p. 190.
Radiators from freezing, Composition used to keep water in automobile-. American Autoblood Company. No. 142,883; June 21; v. 287; p. 577.
Razors and pocket-knives. United Drug Company. No. 143,762; June 7; v. 287; p. 188.
Razors, scissors, and hair-clippers. Alexis Witte Cutlery Co. No. 144,089; June 21; v. 287; p. 583.
Reamers. Cleveland Twist Drill Co. No. 144,106; June 21; v. 287; p. 586.
Remedy, Cough. H. Erb. No. 144,224; June 28; v. 287; p. 775.
Remedy for indigestion. G. S. Dunbar. No. 143,937; June 21; v. 287; p. 579.
Remedy for rheumatism. F. V. Sawyer. No. 144,272; June 28; v. 287; p. 776.
Ribbon in the piece. Columbia Ribbon Co. No. 144,309; June 28; v. 287; p. 779.
Ribbons. J. W. Streeton Company. No. 143,751; June 7; v. 287; p. 187.
Ribbons and goods in the piece. Johnson Cowdin & Company. No. 144,311; June 28; v. 287; p. 780.
Ring-travelers. National Ring Traveler Co. No. 144,251; June 28; v. 287; p. 776.
Roller-cycle of the scooter type. Kokomo Specialties Mfg. Co. No. 144,190; June 28; v. 287; p. 774.
Rompers, Children's. E. F. Murray. No. 144,014; June 21; v. 287; p. 581.
Roofing, Liquid. Asbestos Products Corporation. No. 143,784; June 7; v. 287; p. 189.
Roofing, Prepared. Ford Roofing Products Co. No. 143,604; June 7; v. 287; p. 183.
Rubber dental, medical, and surgical goods. B. F. Goodrich Company. No. 144,219; June 28; v. 287; p. 774.
Rubber patches, Sheet-. E. T. Barker. No. 144,171; June 28; v. 287; p. 773.
Rubber soles and heels. O'Sullivan Rubber Company, Inc. No. 144,140; June 21; v. 287; p. 589.
Rubber thread. B. F. Goodrich Company. No. 143,957; June 21; v. 287; p. 579.
Safes, keys, locks, safe fittings and interiors and parts thereof. General Fireproofing Co. No. 143,613; June 7; v. 287; p. 183.
Salad-dressing. A. De Martino. No. 143,582; June 7; v. 287; p. 182.
Saline aperient for the treatment of diseases. A. A. Burnham. No. 143,844; June 14; v. 287; p. 399.
Salve. Creft Chemical Co. No. 143,928; June 21; v. 287; p. 578.
Salve or ointment. A. A. Bretz. No. 144,178; June 28; v. 287; p. 773.
Salves for boils, carbuncles, felons, &c. S. O. O'Dell. No. 144,255; June 28; v. 287; p. 776.
Sand, Molding-. Keener Sand & Clay Co. No. 143,808; June 7; v. 287; p. 191.
Satin in the piece. Salembier & Clay. No. 144,050; June 21; v. 287; p. 582.
Saws. American Saw and Manufacturing Company. No. 144,095; June 21; v. 287; p. 585.
Screen, Window ventilating-. O. A. Hollis. No. 143,982; June 21; v. 287; p. 580.
Screw-extractors. Cleveland Twist Drill Co. No. 144,107; June 21; v. 287; p. 586.
Seals, Embossed gold. Milwaukee Label & Seal Co. No. 144,008; June 21; v. 287; p. 581.
Seeds, bulbs, and nursery-stock. Germain Seed and Plant Company. No. 143,803; June 7; v. 287; p. 191.
Seeds, Grass and garden. Emery-Scott Seed Company. No. 143,942; June 21; v. 287; p. 579.
Seeds, Lawn. C. E. Kendel. Nos. 143,809–10; June 7; v. 287; p. 191.
Serge piece goods. Schlang & Co. No. 143,739; June 7; v. 287; p. 187.
Sheets and pillow-cases. Marshall Field & Company. No. 143,814; June 7; v. 287; p. 192.
Sheets and pillow-cases. Marshall Field & Company. Nos. 144,003–4; June 21; v. 287; p. 581.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 143,860; June 14; v. 287; p. 401.
Sheets and pillow-cases. Naumkeag Steam Cotton Co. Nos. 143,862–3; June 14; v. 287; p. 401.

Shelving, locker-cabinets, &c. Allsteelequip Company. No. 143,780; June 7; v. 287; p. 189.
Shingles, roofing-tile, &c. Vulcanite Roofing Company. No. 143,764; June 7; v. 287; p. 188.
Shirts, Men's dress-. Le Roy Shirt Co. No. 144,127; June 21; v. 287; p. 588.
Shirts, Men's silk. M. Auerbach & Sons. No. 143,900; June 21; v. 287; p. 577.
Shirts, Work-. Liberty Shirt Mills. No. 143,672; June 7; v. 287; p. 185.
Shoe-horns, button-hooks, glove-stretchers, combs. Fiberloid Corporation. No. 143,948; June 21; v. 287; p. 579.
Shoes. W. H. Griffin Company. No. 144,319; June 28; v. 287; p. 780.
Shoes. Pedigo-Weber Shoe Co. No. 144,258; June 28; v. 287; p. 776.
Shoes and juliettes, Leather. Lunn & Sweet Company. No. 143,676; June 7; v. 287; p. 185.
Shoes, boots, and slippers. Buckingham & Hecht. No. 143,563; June 7; v. 287; p. 182.
Shoes, Boys'. Neenah Shoe Company. No. 143,698; June 7; v. 287; p. 186.
Shoes, Ladies' and misses' leather. Krohn-Fechheimer Co. No. 144,323; June 28; v. 287; p. 781.
Shoes, Leather. Elliot Shoe Co. No. 143,941; June 21; v. 287; p. 579.
Shoes made of leather. International Shoe Co. No. 143,651; June 7; v. 287; p. 184.
Shoes made of canvas and leather and combination of both. Truitt Brothers. No. 143,759; June 7; v. 287; p. 188.
Shoes of leather, rubber, and fabric. Buckingham & Hecht. No. 143,915; June 21; v. 287; p. 578.
Shoes of leather or a combination of leather and fabric. J. & T. Cousins Co. No. 143,925; June 21; v. 287; p. 578.
Shoes, slippers, and booties, Sheepskin, kid, &c. A. L. Day. No. 144,313; June 28; v. 287; p. 780.
Shoes, Women's. Brown Shoe Company. No. 143,562; June 7; v. 287; p. 182.
Shingles, roofing-tile, &c. Vulcanite Roofing Company. Nos. 144,292–3; June 28; v. 287; p. 777.
Shirtwaists and blouses. Alfred Beer Co. Inc. No. 144,304; June 28; v. 287; p. 779.
Silk and silk-mixture fabrics in the piece. Cheney Brothers. No. 143,920; June 21; v. 287; p. 578.
Silk, cotton, and woolen piece goods, &c. J. A. Migel. No. 144,200; June 28; v. 287; p. 774.
Silk, cotton, and woolen piece goods and combinations thereof. J. A. Migel, Inc. No. 144,242; June 28; v. 287; p. 775.
Silk fabric in the bolt or piece, Woven. American Home Economics Association. No. 143,886; June 21; v. 287; p. 577.
Silk, linen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 143,969; June 21; v. 287; p. 580.
Silk, linen, woolen, and cotton piece goods, &c. Haas Brothers Fabrics Corporation. No. 143,631; June 7; v. 287; p. 184.
Silk piece goods. Berfelden Mills. No. 143,908; June 21; v. 287; p. 578.
Silk piece goods. A. S. Rosenthal Company. No. 144,268; June 28; v. 287; p. 776.
Silk piece goods. R. & H. Simon Co. No. 144,056; June 21; v. 287; p. 582.
Silk piece goods. Susquehanna Silk Mills. No. 143,754; June 7; v. 287; p. 187.
Silk, wool, line, &c., piece goods. Coudurier, Fructus et Descher. Nos. 143,575–7; June 7; v. 287; p. 182.
Silkoline, sateen, scrim, &c. Wyman, Partridge & Co. No. 144,091; June 21; v. 287; p. 583.
Silver-plated flat and hollow ware. R. Wallace & Sons Mfg. Co. No. 143,877; June 14; v. 287; p. 402.
Snap-fasteners. Rau Fastener Co. No. 144,039; June 21; v. 287; p. 582.
Soap. Amole Soap Company. No. 144,303; June 28; v. 287; p. 779.
Soap. F. Angulo. Nos. 144,168–9; June 28; v. 287; p. 773.
Soap. Los Angeles Soap Co. No. 143,813; June 7; v. 287; p. 192.
Soap. C. Munter. No. 144,209; June 28; v. 287; p. 774.
Soap. Parfumerie Lournay. No. 143,709; June 7; v. 287; p. 186.
Soap and cleaning preparations for fabrics, Common. W. & F. Walker Limited. No. 144,294; June 28; v. 287; p. 777.
Soap and soap flakes. Sears, Roebuck and Co. No. 144,276; June 28; v. 287; p. 776.
Soap for cleaning and polishing eyeglasses, spectacles, and goggles. A. D. Honeycut. No. 144,229; June 28; v. 287; p. 775.
Soap, Laundry. American Wholesale Corporation (Baltimore Bargain House). No. 144,167; June 28; v. 287; p. 773.
Soap, Laundry. Haskins Brothers & Company. No. 144,226; June 28; v. 287; p. 775.
Soap, Toilet. A. E. Cleveland. No. 144,181; June 28; v. 287; p. 773.
Soap, Toilet and laundry. Graham Bros. Soap Co. No. 144,220; June 28; v. 287; p. 775.
Soap, Waterless. Usum Products Co. No. 144,289; June 28; v. 287; p. 777.
Soaps. Colgate & Company. Nos. 143,793–4; June 7; v. 287; p. 190.
Solder, Aluminium. H. O. Ormiston. No. 144,019; June 21; v. 287; p. 581.
Soldering and tinning flux. F. H. Perfect. No. 144,038; June 21; v. 287; p. 582.
Spectacle and eyeglass frames and mountings. New Jersey Optical Co. No. 144,253; June 28; v. 287; p. 776.
Spectacles, eyeglasses, and certain supplies, &c. American Optical Company. No. 144,094; June 21; v. 287; p. 585.
Spectacles, eyeglasses, and lorgnettes, Frames, mountings, and parts of. C. A. Wilkinson Company. No. 144,297; June 28; v. 287; p. 777.
Spindle-bandings, webs, &c. Russell Manufacturing Company. No. 143,735; June 7; v. 287; p. 187.
Sponge-cloth. D. N. Graves. No. 143,958; June 21; v. 287; p. 579.
Starch, Gloss-. Penick & Ford. No. 143,866; June 14; v. 287; p. 401.
Steel. Atlas Crucible Steel Co. No. 143,898; June 21; v. 287; p. 577.
Steel, Alloy, chisel, and alloy chisel. Ludlum Steel Company. No. 144,194; June 28; v. 287; p. 774.
Steel restoring and hardening compound. Moran, Mueller & Morris. No. 143,689; June 7; v. 287; p. 186.
Steel, Tool-. Atlas Crucible Steel Co. No. 143,897; June 21; v. 287; p. 577.
Stoneware and pottery. The Ransbottom Brothers Pottery Company. No. 144,262; June 28; v. 287; p. 776.
Stove-polish. Argyle Chemical Works. No. 143,537; June 7; v. 287; p. 181.
Stoves. Atlanta Stove Works. No. 143,896; June 21; v. 287; p. 577.
Stoves or furnaces, Air-feeding devices for coal. J. Y. King. No. 143,990; June 21; v. 287; p. 580.
Suits, coats, hats, and wraps, Ladies'. Jos. Ney & Sons Co. No. 143,699; June 7; v. 287; p. 186.
Suits consisting of coats, caps, &c., Ladies' outing-. Cal Hirsch & Sons Mercantile Co. No. 143,646; June 7; v. 287; p. 184.
Suits, Men's. Everett, Heaney & Company. No. 143,599; June 7; v. 287; p. 183.
Suits, waists, hosiery, and underclothes, Ladies'. Harrods (North America) Ltd. No. 143,633; June 7; v. 287; p. 184.
Sweater-coats. Sears, Roebuck and Co. No. 143,743; June 7; v. 287; p. 187.
Syrup, Cane and maple. Pacific Coast Syrup Co. No. 143,704; June 7; v. 287; p. 186.
Syrup, Malt-sugar. Anheuser-Busch, Incorporated. Nos. 143,533–4; June 7; v. 287; p. 181.
Syrup, Malted. National Products Company. No. 143,695; June 7; v. 287; p. 186.
Syrups for food products, canned fruits, &c. H. B. Hunter Co. No. 143,648; June 7; v. 287; p. 184.
Tanning extract, Synthetic. Barrett Company. No. 143,548; June 7; v. 287; p. 181.
Tea. W. Paplewski Medical Tea Company. No. 144,257; June 28; v. 287; p. 776.
Tea composed of herbs and plants. Y. Hillinger. No. 143,844; June 7; v. 287; p. 184.
Textile fabrics—namely, silk, Jersey-cloth. Banner Silk Knitting Mills. No. 143,905; June 21; v. 287; p. 577.
Thermometers. C. E. Erickson Co. No. 143,945; June 21; v. 287; p. 579.
Thread and yarn. Türk Gesellschaft mit beschränkter Haftung. No. 144,073; June 21; v. 287; p. 583.
Thread, Linen. International Linen Company. No. 144,189; June 28; v. 287; p. 774.
Threads, twists, yarns. Dollfus Mieg & Cie. Societe Anonyme. No. 143,934; June 21; v. 287; p. 578.
Threads, twists, yarns. Dollfus Mieg & Cie. Societe Anonyme. No. 143,936; June 21; v. 287; p. 578.
Threshing machinery, sawmills, &c. Frick Company. No. 143,952; June 21; v. 287; p. 579.
Ticking. Marshall Field & Company. No. 144,000; June 21; v. 287; p. 580.
Tire-patches. United States Tire Company. No. 143,838; June 7; v. 287; p. 194.
Tires, &c., Air-valves for automobile-. Griffin Mfg. Co. No. 143,959; June 21; v. 287; p. 579.
Tires. Dunlop Rubber Company. No. 143,587; June 7; v. 287; p. 182.
Tires made of rubber, Vehicle-. G. & J. Tire Company. No. 143,874; June 14; v. 287; p. 402.
Tobacco, Leaf-. Liggett & Myers Tobacco Co. No. 144,240; June 28; v. 287; p. 775.
Tobacco, little cigars, cigarettes, Smoking-. The American Tobacco Company. No. 144,166; June 28; v. 287; p. 773.
Tobacco, natural twist, and cigarettes, Smoking-. W. H. Moberly. No. 144,204; June 28; v. 287; p. 774.
Tobacco-pouches. F. S. Mills Co. No. 143,817; June 7; v. 287; p. 192.
Toilet and tooth powders, shaving-lotion, cold-cream, &c. American Safetee Soap Corporation. No. 143,889; June 21; v. 287; p. 577.
Toilet articles. Tuskeloid Company, Inc. Nos. 144,287–8; June 28; v. 287; p. 777.
Toilet preparation. E. D. Lennox. No. 144,033; June 21; v. 287; p. 581.
Toilet preparations. Geo. Borgfeldt & Co. No. 143,558; June 7; v. 287; p. 182.

Toilet preparations. Mulhens & Kropff. No. 144,207; June 28; v. 287; p. 774.
Toilet preparations. Northam Warren Corporation. No. 143,821; June 7; v. 287; p. 193.
Toilet preparations. Tanty, Inc. No. 144,284; June 28; v. 287; p. 777.
Toilet waters, perfumes, extracts, cold and face creams, &c. R. H. White Company. No. 144,087; June 21; v. 287; p. 583.
Tomato spaghetti sauce. U. J. Baccarlino. No. 143,761; June 7; v. 287; p. 188.
Tonic, General. F. Herrera. No. 143,977; June 21; v. 287; p. 580.
Tonic, General. J. A. Welch. No. 144,085; June 21; v. 287; p. 583.
Tonic, Medicinal. J. C. Trainer. No. 144,072; June 21; v. 287; p. 583.
Tonics and dressings for the hair and scalp. A. J. Mills. No. 144,088; June 21; v. 287; p. 583.
Tonics, General. Zipern & Robins. No. 144,300; June 28; v. 287; p. 777.
Tonics, Hair-. V. Mosley. No. 143,859; June 14; v. 287; p. 400.
Tooth-paste. Bristol-Myers Company. No. 143,560; June 7; v. 287; p. 182.
Tooth-paste. Saenger Brothers. No. 144,049; June 21; v. 287; p. 582.
Toothpicks, Wooden. Escanaba Manufacturing Company. No. 144,212; June 28; v. 287; p. 774.
Toy airplanes. H. Rosenstein. No. 144,269; June 28; v. 287; p. 776.
Toy balloons. Eagle Rubber Co. No. 144,235; June 28; v. 287; p. 775.
Toy balloons. Faultless Rubber Company. No. 144,214; June 28; v. 287; p. 774.
Toy paper picture-books. Samuel Gabriel Sons & Co. No. 144,118; June 21; v. 287; p. 587.
Toy velocipedes. Simplex Steel Stamping and Manufacturing Company. No. 143,834; June 7; v. 287; p. 194.
Toys. Morton E. Converse and Son Co. No. 144,185; June 28; v. 287; p. 773.
Trade publication. Daily. Fenton Publishing Company. No. 144,025; June 21; v. 287; p. 581.
Tramway-switches, Overhead. J. Duncan Company. No. 144,112; June 21; v. 287; p. 586.
Truck bodies, Automobile-. Atlas Body Works. No. 143,540; June 7; v. 287; p. 181.
Trucks, Automobile-. Available Truck Company. No. 143,785; June 7; v. 287; p. 189.
Typewriting-machines. Corona Typewriter Co. No. 144,109; June 21; v. 287; p. 586.
Typewriting-machines. Standard Shortwriter Sales Co. No. 144,147; June 21; v. 287; p. 590.
Umbrellas, parasols, and canes. W. H. Beehler. No. 143,552; June 7; v. 287; p. 181.
Undergarments in cotton, silk, and knitted fabrics. Western Dry Goods Co. No. 144,296; June 28; v. 287; p. 777.
Underskirts and petticoats, Women's. American Home Economics Association. No. 143,885; June 21; v. 287; p. 577.
Undershirts, drawers, chemises, &c. Fox Bros. Mfg. Co. No. 143,802; June 7; v. 287; p. 191.
Underwear, Children's. Athletic Underwear Company. No. 143,892; June 21; v. 287; p. 577.
Underwear-garments, Children's. B. Weiss. No. 143,770; June 7; v. 287; p. 188.
Underwear of knitted material, Infants'. Boston Knitting Mills. No. 143,914; June 21; v. 287; p. 578.
Underwear of textile fabric, Ladies' and misses'. D. Rosenberg & Co. No. 143,734; June 7; v. 287; p. 187.
Vaccins, Curative. Etablissements Poulenc Frères. No. 144,315; June 28; v. 287; p. 780.
Varnishes, Japans, oil-paints, paint-oils. T. C. Esser Company. No. 143,800; June 7; v. 287; p. 190.
Vehicle-wheels. Packard Engineering Company. No. 143,705; June 7; v. 287; p. 186.
Vehicles, Traffic-signals for. Turn-O-Stop Manufacturing Corporation. No. 144,074; June 21; v. 287; p. 583.
Veil and veilings and nettings in the piece. H. Jacob & Sons. No. 143,983; June 21; v. 287; p. 580.
Wafers, Sugar. Lakeside Biscuit Co. No. 143,662; June 7; v. 287; p. 185.
Waist, union-suits, Children's. E-Z Waist Company. No. 143,766; June 7; v. 287; p. 188.
Washing compounds. Multi Products Company. No. 144,208; June 28; v. 287; p. 774.
Washing fluid, Non-saponaceous. Miracle Manufacturing Company. No. 144,203; June 28; v. 287; p. 774.
Washing-powder. J. H. McMahon. No. 144,196; June 28; v. 287; p. 774.
Watches and watch-movements. Hampden Watch Company. No. 144,120; June 21; v. 287; p. 587.
Water-heaters, Gas. Bastian-Morley Co. No. 143,907; June 21; v. 287; p. 578.
Water-softener. Sudless Products Company. No. 143,752; June 7; v. 287; p. 187.
Water-stills. Barnstead Still and Sterilizer Co. No. 144,098; June 21; v. 287; p. 585.
Waters, Mineral. Schweppes, Limited. No. 143,741; June 7; v. 287; p. 187.
Waters, Mineral. Veronica Medicinal Springs Water Co. No. 144,291; June 28; v. 287; p. 777.
Waterproofed coats, jackets, boots, shoes, &c. B. F. Goodrich Company. No. 143,623; June 7; v. 287; p. 184.
Waterproofing liquid for treating fabrics. Goheen Corporation. No. 143,955; June 21; v. 287; p. 579.
Wearing-apparel, Knitted. Hygrade Knitting Co. No. 144,320; June 28; v. 287; p. 781.
Webbings, Electric. Russell Manufacturing Company. No. 144,048; June 21; v. 287; p. 582.
Welding compounds. Hill-Smith Metal Goods Company. No. 143,979; June 21; v. 287; p. 580.
Wheat and corn products. Dahnke-Walker Milling Co. No. 143,580; June 7; v. 287; p. 182.
Wheelbarrows. Puffer-Hubbard Manufacturing Company. No. 143,833; June 7; v. 287; p. 194.
Wheels, Automobile steering-. Detroit Steering Wheel Corp. No. 143,797; June 7; v. 287; p. 190.
Wire fabric. Moore Company. No. 144,205; June 28; v. 287; p. 774.
Wire fencing, Woven-. American Steel & Wire Company of New Jersey. No. 144,096; June 21; v. 287; p. 585.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 143,605–11; June 7; v. 287; p. 183.
Woolen piece goods. Forstmann & Huffmann Co. Nos. 143,949–51; June 21; v. 287; p. 579.
Woolen piece goods. Worumbo Manufacturing Company. No. 144,090; June 21; v. 287; p. 583.
Wrenches, Victor Manufacturing Company. No. 144,079; June 21; v. 287; p. 583.
Wrenches, Ratchet-. Clip Bar Manufacturing Co. No. 144,108; June 21; v. 287; p. 586.
Wrinkle-eradicator and muscle-builder for flabby faces and a hair-tonic and dandruff cure. N. C. Coon. No. 143,922; June 21; v. 287; p. 578.
Yarns, Cotton. Ridge Mills Inc. No. 144,045; June 21; v. 287; p. 582.
Yeast. H. B. Klosterman. No. 144,321; June 28; v. 287; p. 781.
Zinc, Slab-. New Jersey Zinc Company. No. 144,137; June 21; v. 287; p. 589.

ALPHABETICAL LIST OF LABELS.

"Aldrich's A No. 1 A Back-to-the-Old Times Good Cigar." (For Boxes Containing Cigars.) C. D. Aldrich. No. 23,021; June 21; v. 287; p. 592.
"All Star Assortment." (For Packages Containing Toy Balloons.) Richard D. Bakrow & Son. Nos. 22,992–3; June 14; v. 287; p. 403.
"At-Water." (For Fresh Fruits.) Atwater Fruit Exchange. No. 23,025; June 28; v. 287; p. 783.
"Aunt Molly's Butter Creams." (For Boxes Containing Butter-Creams.) Milwaukee Paper Box Company. No. 23,043; June 28; v. 287; p. 783.
"Auto-Brite." (For a Liquid Compound for Cleaning, Polishing and Brightening Automobiles.) C. M. Taylor, Jr. No. 23,018; June 14; v. 287; p. 403.
"Beleena." (For Cigars.) A. C. Henschel & Co. No. 23,030; June 28; v. 287; p. 783.
"Bromo-Aspirin." (For Pharmaceutical Preparations.) J. B. McManes. No. 23,007; June 14; v. 287; p. 403.
"Buttercup." (For Bread.) Saniwax Paper Co. No. 23,047; June 28; v. 287; p. 783.
"Carnation." (For Bread.) Saniwax Paper Co. No. 23,048; June 28; v. 287; p. 783.
"Carpenter's." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,035; June 28; v. 287; p. 783.
"Cold-Storine." (For Cartons Containing Cold-Storine, Preparation for Keeping Meat Products.) B. Heller & Co. No. 23,002; June 14; v. 287; p. 403.
"Columbine Grinding Compound." (For Cans Containing Grinding Compound.) C. H. Cole. No. 22,997; June 14; v. 287; p. 403.
"Cormond Water." (For Washing and Cleaning Preparation.) A. E. Blenner & Co. No. 22,994; June 14; v. 287; p. 403.
"Cream City Brand." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,039; June 28; v. 287; p. 783.
"Cream of the Forest." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 23,000; June 14; v. 287; p. 403.
"Dill's Ez-A-Cold." (For a Medicinal Preparation for Aid in the Treatment of Colds, Croup, Pneumonia Symptoms, Inflammation and Congestion of the Air-Passages, Burns, Bruises, Insect-Stings, Bronchitis, Neuralgia, Sprains, Tonsilitis, and Whooping-Cough.) Dill Company. No. 22,998; June 14; v. 287; p. 403.
"Dr. Dufner's." (For Mouth-Antiseptic.) J. J. Dufner. No. 22,999; June 14; v. 287; p. 403.
"Dr. Tinker's Formula Gold for Cast Crown and Bridge Work." (For Packages Containing Dental Gold.) E. T. Tinker. No. 23,049; June 28; v. 287; p. 783.

"Evergold Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,041; June 28; v. 287; p. 783.
"Flor De Galindo." (For Cigars.) La Linda Diana Cigar Company. No. 23,034; June 28; v. 287; p. 783.
"Gate City Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,037; June 28; v. 287; p. 783.
"Globe." (For Tomatoes.) W. H. Cauley. No. 22,995; June 14; v. 287; p. 403.
"Good Luck Malt Syrup." (For Containers of a Concentrated Syrup Manufactured from Malt and other Grain.) E. E. Emerson. No. 23,028; June 28; v. 287; p. 783.
"Granny White's Remedy." (For a Preparation for Treatment of Catarrhal Conditions of the Vaginal Mucous Membrane, Inflammation, and Leucorrhea.) M. Rathburn. No. 23,011; June 14; v. 287; p. 403.
"Helen Ware's Complexion Cream." (For Receptacles Containing Complexion-Cream.) Ware Mfg. Co. No. 23,020; June 14; v. 287; p. 403.
"Helen Ware's Hair Tonic." (For Receptacles Containing Hair-Tonic.) Ware Mfg. Co. No. 23,050; June 28; v. 287; p. 783.
"Hollis' Diamond Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and any other Receptacles Containing Malt-Syrup.) A. Hollis. No. 23,003; June 14; v. 287; p. 403.
"'Humming-Bird' Airplane." (For Toy Airplanes.) Scientific Products Co. No. 23,013; June 14; v. 287; p. 403.
"Jersey Gold." (For Butter.) Mountain Grove Creamery Ice and Electric Company. No. 23,009; June 14; v. 287; p. 403.
"Jiffy Pie." (For Cartons Containing a Mixture for Making Pie, Custard, Pudding, and Cake-Filling.) Jiffy Dessert Company. No. 23,032; June 28; v. 287; p. 783.
"Kellogg's Cooked Bran." (For Food Specifically Known as Kellogg's Cooked Bran.) Kellogg Toasted Corn Flake Co. No. 23,033; June 28; v. 287; p. 783.
"La Valeta." (For Cigars.) A. C. Henschel & Company. No. 23,031; June 28; v. 287; p. 783.
"Meloine." (For Receptacles Containing Meloine, a Preparation Used in the Manufacture of Ice-Cream.) B. Heller & Co. No. 23,001; June 14; v. 287; p. 403.
"Mrs. Randall's Cream Salad Dressing." (For Receptacles Containing Salad-Dressing.) Mrs. M. O. Randall. No. 23,024; June 21; v. 287; p. 592.
"Notair." (For Hair-Nets.) N. B. Cohen. No. 22,996; June 14; v. 287; p. 403.
"Nuforal." (For a Preparation to be Used in Connection with the Treatment of Tuberculosis.) Nuforal Laboratories. No. 23,044; June 28; v. 287; p. 783.
"O-Cedar." (For Polish for Furniture, Floors, Linoleum, Pianos and Autos.) Channell Chemical Company. No. 23,026; June 28; v. 287; p. 783.
"Ozo Toilet Cleaner." (For Receptacles Containing Ozo Toilet Cleaner, a Preparation for Cleaning Closet-Bowls.) B. Heller & Co. No. 23,023; June 21; v. 287; p. 592.
"Perfex." (For Typewriter Carbon-Paper.) U. S. Manifold Company. No. 23,019; June 14; v. 287; p. 403.
"Pete Wendling." (For Cigars.) A. M. Leon & Co. No. 23,006; June 14; v. 287; p. 403.
"Quality Bread." (For Wax-Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 23,008; June 14; v. 287; p. 403.
"Queen Anne Soap." (For Soap.) Lautz Bros. & Co. No. 23,005; June 14; v. 287; p. 403.
"Quick-Gro Plant Food." (For Plant Food.) E. G. Steltz. No. 23,015; June 14; v. 287; p. 403.
"Reedley." (For Canned Apricots.) Reedley Canning Co. No. 23,012; June 14; v. 287; p. 403.
"Rose City Mixed Paint." (For Mixed Paints.) Superior Builders Supply Co. No. 23,017; June 14; v. 287; p. 403.
"Royal Metal Polish." (For Boxes Containing Royal Metal Polish.) B. Heller & Co. No. 23,022; June 21; v. 287; p. 592.
"Snowhite." (For Clothing, Walls, Woodwork, &c., for Cleaning Purposes.) Household Products Company. No. 23,004; June 14; v. 287; p. 403.
"Three In One Malt Extract." (For Cans Containing Malt Extract Made of Malt, Hops, and Sugar.) H. D. Sterrick. No. 23,016; June 14; v. 287; p. 403.
"Toscanox Box." (For a Cigar-Box.) State Leaf Tobacco Co. No. 23,014; June 14; v. 287; p. 403.
"Turkey Trot Cigars." (For Boxes Containing Cigars.) F. H. Nuttleman. No. 23,010; June 14; v. 287; p. 403.

ALPHABETICAL LIST OF PRINTS.

"A Life Saver Among Life Savers." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,639; June 21; v. 287; p. 592.
"A Repair Bill Saved." (For Advertising Purposes for Nokorode Soldering Paste.) F. Chapman. No. 5,636; June 21; v. 287; p. 592.
"Anybody Can Make Good Coffee If—." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,645; June 21; v. 287; p. 592.
"Auto Indicator." (For Auto-Indicators.) Auto Indicator Company. No. 5,619; June 14; v. 287; p. 404.
"Bachman 'The Finest Chocolate in the World.'" (For Advertising Purposes for Chocolate-Bars.) Bachman Chocolate Manufacturing Co. No. 5,634; June 21; v. 287; p. 592.
"Call the Owl." (For Advertising Purposes for Oils, Gas, Automobile-Repair Parts, Batteries, and Accessories.) Owl Garage & Repair Co. No. 5,649; June 21; v. 287; p. 592.
"Coffee and Courage are Shipmates." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,640; June 21; v. 287; p. 592.
"De Lue's Golden Giant New Early Hybrid Sweet Corn." (For Advertising Purposes for Seed-Corn.) F. S. De Lue. No. 5,621; June 14; v. 287; p. 404.
"Ebling's Malt Tonic." (For Advertising Purposes for Malt Tonic.) Ebling Bottling Co. Inc. No. 5,638; June 21; v. 287; p. 592.
"Electric Household Utilities." (For Advertising Purposes for Washing-Machines.) Dow Manufacturing Company. No. 5,637; June 21; v. 287; p. 592.
"Heinz Cream of Tomato Soup Made With Real Cream." (For Advertising Purposes for Heinz Cream-of-Tomato Soup.) H. J. Heinz Co. No. 5,625; June 14; v. 287; p. 404.
"Heinz Tomato Ketchup Beef Loaf." (For Advertisinz Purposes for Heinz Tomato Ketchup.) H. J. Heinz Co. No. 5,623; June 14; v. 287; p. 404.
"Heinz Tomato Ketchup When You Are Wondering About the Distinctively Delicious Flavor of Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup. H. J. Heinz Co. No. 5,624; June 14; v. 287; p. 404.
"Iced Coffee More Than Cooling." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,644; June 21; v. 287; p. 592.
"If It Swims We Have It." (For Advertising Purposes for Fish.) Midwest Fisheries Association. No. 5,647; June 21; v. 287; p. 592.
"Just Like Dad's." (For Advertising Purposes for One-Piece Garments.) H. D. Lee Mercantile Co. No. 5,626; June 14; v. 287; p. 404.
"Keep Kitchen Utensils from Rusting." (For Advertising Purposes for Nokorode Soldering Paste.) F. Chapman. No. 5,635; June 21; v. 287; p. 592.
"Magneto Type Battery System." (For Advertising Purposes for Ignition Apparatus.) American Bosch Magneto Corporation. No. 5,633; June 21; v. 287; p. 592.
"My Reputation Depends on Coffee." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,643; June 21; v. 287; p. 592.
"Neptune's Daughter." (For Advertising Purposes for Bathing-Suits.) Niagara Knitting Mills Corp. No. 5,628; June 14; v. 287; p. 404.
"New Mexico Shelled Piñon Nuts." (For Advertising Purposes for Piñon-Nuts.) F. S. Spitz. No. 5,653; June 21; v. 287; p. 592.
"Odo-Ro-No Ends Perspiration Annoyance." (For Advertising Purposes for Liquid Deodorizing Preparations for Perspiration Annoyances.) Odorono Co., The No. 5,648; June 21; v. 287; p. 592.
"One Dozen Extra Selected Corn Belt Large Size Eggs." (For Cartons Containing Eggs.) Pioneer Creamery Co. No. 23,045; June 28; v. 287; p. 783.
"Phys-I-Og-Nomy Hat Chart." (For Advertising Purposes for Hats.) G. J. Linden. No. 5,627; June 14; v. 287; p. 404.
"Purity Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,040; June 28; v. 287; p. 783.
"Ralston A Wheat Food." (For Cereal Food.) Ralston Purina Company. No. 23,046; June 28; v. 287; p. 783.
"Rat and Mouse Embalmer." (For Felix Girard Rat and Mouse Poison.) Felix Girard Co. No. 5,622; June 14; v. 287; p. 404.
"Robin Brand Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,038; June 28; v. 287; p. 783.
"Royal Marble Cleaner." (For Cans Containing Royal Marble-Cleaner.) B. Heller & Co. No. 23,029; June 28; v. 287; p. 783.

"Safford Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,036; June 28; v. 287; p. 783.

"Slip St. Nick the P. A. Wink." (For Advertising Purposes for Smoking-Tobacco. R. J. Reynolds Tobacco Company. No. 5,631; June 14; v. 287; p. 404.

"Some Imitation." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 5,620; June 14; v. 287; p. 404.

"Stansbery Wonder Salve." (For Labels Placed Around Containers Holding Said Salve.) M. E. White. No. 23,051; June 28; v. 287; p. 783.

"Talk About Turning Over a New Leaf." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,632; June 14; v. 287; p. 404.

"The Big Gift for the Big Day." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,630; June 14; v. 287; p. 404.

"The Co-Operative Cigar." (For Cigars.) Milwaukee Co-Operative Cigar Company. No. 23,042; June 28; v. 287; p. 783.

"The Finest Reproducing Phonograph in the World." (For Advertising Purposes for Phonographs.) Steger & Sons Pianos Manufacturing Company. No. 5,651; June 21; v. 287; p. 592.

"The Most Valuable Piano in the World." (For Advertising Purposes for Pianos.) Steger & Sons Piano Manufacturing Company. No. 5,652; June 21; v. 287; p. 592.

"The Zero Hour." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,646; June 21; v. 287; p. 592.

"Western." (For Grapes.) Dinuba Grape Growers Assn. No. 23,027; June 28; v. 287; p. 783.

"What is Your Brain Worth?" (For Advertising Purposes for Accounting-Machines.) F. C. Pangborn. No. 5,650; June 21; v. 287; p. 592.

"When You Entertain." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,642; June 21; v. 287; p. 592.

"When Your Collar Starts to Wilt." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,641; June 21; v. 287; p. 592.

"You Certainly Put Joy in Your Language When You Call for Prince Albert." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,629; June 14; v. 287; p. 404.

DISCLAIMER.

Camera, Photographic-film. J. Cernohouz. No. 1,293,033; date of patent Feb. 4, 1919; disclaimer filed June 6, 1921; v. 287; p. 1.

CLASSIFICATION OF PATENTS

JUNE, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 2: 1,380,733
4: 1,382,013
10: 1,380,690
1,383,145
11: 1,381,617
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19: 1,382,762
26: 1,380,538
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